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of Contentsâ€‹â€‹UNITED STATESSECURITIES AND EXCHANGE COMMISSIONWASHINGTON, D.C. 20549FORMÂ 10-Qâ˜‘QUARTERLY REPORT PURSUANT TO SECTIONÂ 13 OR 15(d)Â OF THE SECURITIES EXCHANGE ACT OF 1934â€‹For the Quarterly Period Ended June 30, 2024ORâ˜TRANSITION REPORT PURSUANT TO SECTIONÂ 13 OR 15(d)Â OF THE SECURITIES EXCHANGE ACT OF 1934â€‹Commission file number 001-35955VUZIX CORPORATION(Exact name of registrant as specified in its charter)DelawareÂ Â Â Â 04-3392453State or other jurisdiction ofincorporation or organization(I.R.S. EmployerIdentification No.)â€‹25 Hendrix Road, SuiteÂ AWest Henrietta, New YorkÂ Â Â Â 14586(Address of principal executive offices)(Zip Code)â€‹Registrantâ€™s telephone number, including area code: (585)Â 359-5900Securities registered pursuant to SectionÂ 12(b)Â of the Act:â€‹TitleÂ ofÂ eachÂ class:Â Â Â Â Trading Symbol(s)Â Â Â Â Â NameÂ ofÂ eachÂ exchangeÂ onÂ whichÂ registered:Common Stock, par value $0.001Â VUZIÂ Nasdaq Capital Marketâ€‹Indicate by check mark whether the registrant (1)Â has filed all reports required to be filed by SectionÂ 13 or 15(d)Â of the Securities Exchange Act of 1934 during the preceding 12Â months (or for such shorter period that the registrant was required to file such reports), and (2)Â has been subject to filing requirements for the past 90Â days. Â Â YesÂ Â Â â˜‘Â Â Â Â NoÂ Â Â â˜Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submittedÂ pursuant to RuleÂ 405 of Regulation S-T (Â§ 232.405 of this chapter) during the preceding 12Â months (or for such shorter period that the registrant was required to submit such files). Â Â YesÂ Â Â â˜‘Â Â Â Â NoÂ Â Â â˜Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See definitions of â€œlarge accelerated filerâ€, â€œaccelerated filerâ€, â€œsmaller reporting companyâ€, and â€œemerging growth companyâ€ in RuleÂ 12b-2 of the Exchange Act.Large accelerated filerâ˜Accelerated filerâ˜Non-accelerated filerâ˜‘Â Â Â Â Â Â Smaller reporting companyâ˜‘Emerging growth companyâ˜Â Â Â â€‹If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to SectionÂ 13(a)Â of the Exchange Act.Â Â â˜Indicate by check mark whether the registrant is a shell company (as defined in ruleÂ 12b-2 of the Exchange Act). Yes Â˜ NoÂ Â â˜‘As of August 14, 2024, there were 65,965,431 shares of the registrantâ€™s common stock outstanding.â€‹â€‹â€‹â€‹ Table of ContentsVuzix CorporationINDEXâ€‹Â PageNo.Â Â PartÂ IÂ â€” Financial Information3Â Â Â â€‹ItemÂ 1.Consolidated Financial Statements (Unaudited):3Â Â â€‹Consolidated Balance Sheets as of June 30, 2024 and December 31, 20233Â Â â€‹â€‹Consolidated Statements of Changes in Stockholdersâ€™ Equity for the Three and Six Months Ended June 30, 2024 and 20234Â Â â€‹Consolidated Statements of OperationsÂ for the Three and Six Months Ended June 30, 2024 and 20235Â Â â€‹Consolidated Statements of Cash FlowsÂ for the Six Months Ended June 30, 2024 and 20236Â Â â€‹NotesÂ to the Unaudited Consolidated Financial Statements7Â ItemÂ 2.Managementâ€™s Discussion and Analysis of Financial Condition and Results of Operations18Â ItemÂ 3.Quantitative and Qualitative Disclosures About Market Risk30Â ItemÂ 4.Controls and Procedures30Â PartÂ IIÂ â€” Other Information31Â ItemÂ 1.Legal Proceedings31Â ItemÂ 1A.Risk Factors31Â ItemÂ 2.Unregistered Sales of Equity Securities and Use of Proceeds31Â ItemÂ 3.Defaults Upon Senior Securities31Â ItemÂ 4.Mine Safety Disclosure31Â ItemÂ 5.Other Information31Â ItemÂ 6.Exhibits32Â Â Signaturesâ€‹33â€‹â€‹â€‹â€‹2 Table of ContentsPartÂ 1: FINANCIAL INFORMATIONItemÂ 1:Â Consolidated Financial StatementsVUZIX CORPORATIONCONSOLIDATED BALANCE SHEETSâ€‹â€‹â€‹â

Expensesâ€‹Â 1,006,409â€‹Â 2,416,443Licensing Fees Commitmentâ€‹Â â€”â€‹Â 1,000,000Income and Other Taxes Payableâ€‹Â 124,363â€‹Â 46,727Operating Lease Right-of-Use Liabilityâ€‹â€‹ 506,372â€‹â€‹ 163,513â€‹â€‹â€‹â€‹â€‹â€‹â€‹Total Current Liabilitiesâ€‹Â 2,586,637â€‹Â 5,216,152â€‹â€‹â€‹â€‹â€‹â€‹â€‹Long-Term Liabilitiesâ€‹â€‹â€‹â€‹â€‹â€‹Operating Lease Right-of-Use Liabilityâ€‹â€‹ 240,631â€‹â€‹ 137,672â€‹â€‹â€‹â€‹â€‹â€‹â€‹Total Liabilitiesâ€‹Â 2,827,268â€‹Â 5,353,824â€‹â€‹â€‹â€‹â€‹â€‹â€‹Stockholders' Equityâ€‹Â Â Â â€‹Â Â Â Common Stock - $0.001 Par Value, 100,000,000 shares authorized; 66,034,769 shares issued and 65,455,097 shares outstanding as of JuneÂ 30,Â 2024 and 65,304,780 shares issued and 64,725,108 shares outstanding as of DecemberÂ 31,Â 2023.â€‹Â 66,034â€‹Â 65,304Additional Paid-in Capitalâ€‹Â 382,462,147â€‹Â 377,189,847Accumulated Deficitâ€‹Â (344,644,568)â€‹Â (293,984,793)Treasury Stock, at cost, 579,672 shares as of June 30, 2024 and December 31, 2023.â€‹Â (2,476,501)â€‹Â (2,476,501)â€‹â€‹â€‹â€‹â€‹â€‹â€‹Total Stockholders' Equityâ€‹Â 35,407,112â€‹Â 80,793,857â€‹â€‹â€‹â€‹â€‹â€‹â€‹Total Liabilities and Stockholders' Equityâ€‹$ 38,234,380â€‹$ 86,147,681â€‹The accompanying notes are an integral part of these consolidated financial statements.â€‹â€‹â€‹3 Table of ContentsVUZIX CORPORATIONCONSOLIDATED STATEMENTS OF CHANGES IN STOCKHOLDERSâ€™ EQUITY(Unaudited)â€‹CommonÂ Stockâ€‹Additionalâ€‹Accumulatedâ€‹Treasury Stockâ€‹â€‹â€‹â€‹Â Â Â Â SharesÂ Â Â Â AmountÂ Â Â Â Paid-InÂ CapitalÂ Â Â Â DeficitÂ Â Â Â SharesÂ Â Â Â AmountÂ Â Â Â TotalBalance - April 1, 2024Â 65,304,780â€‹$ 65,304â€‹$ 379,582,792â€‹$ (304,032,375)â€‹ (579,672)â€‹$ (2,476,501)â€‹$ 73,139,220Stock-Based Compensation ExpenseÂ 729,005â€‹Â 729â€‹Â 2,879,354â€‹Â â€”Â â€”â€‹Â â€”â€‹Â 2,880,083Stock Option ExercisesÂ 984â€‹Â 1â€‹Â 1â€‹Â â€”Â â€”â€‹Â â€”â€‹Â 2Net LossÂ â€”â€‹Â â€”â€‹Â â€”â€‹Â (40,612,193)Â â€”â€‹Â â€”â€‹Â (40,612,193)Balance - JuneÂ 30,Â 2024Â 66,034,769â€‹$ 66,034â€‹$ 382,462,147â€‹$ (344,644,568)Â (579,672)â€‹$ (2,476,501)â€‹$ 35,407,112â€‹CommonÂ Stockâ€‹Additionalâ€‹Accumulatedâ€‹Treasury Stockâ€‹â€‹â€‹â€‹Â Â Â Â SharesÂ Â Â Â AmountÂ Â Â Â Paid-InÂ CapitalÂ Â Â Â DeficitÂ Â Â Â SharesÂ Â Â Â AmountÂ Â Â Â TotalBalance - January 1, 2024Â 65,304,780â€‹$ 65,304â€‹$ 377,189,847â€‹$ (293,984,793)â€‹ (579,672)â€‹$ (2,476,501)â€‹$ 80,793,857Stock-Based Compensation ExpenseÂ 729,005â€‹Â 729â€‹Â 5,272,299â€‹Â â€”Â â€”â€‹Â â€”â€‹Â 5,273,028Stock Option ExercisesÂ 984â€‹Â 1â€‹Â 1â€‹Â â€”Â â€”â€‹Â â€”â€‹Â 2Net LossÂ â€”â€‹Â â€”â€‹Â â€”â€‹Â (50,659,775)Â â€”â€‹Â â€”â€‹Â (50,659,775)Balance - JuneÂ 30,Â 2024Â 66,034,769â€‹$ 66,034â€‹$ 382,462,147â€‹$ (344,644,568)Â (579,672)â€‹$ (2,476,501)â€‹$ 35,407,112â€‹CommonÂ Stockâ€‹Additionalâ€‹Accumulatedâ€‹Treasury Stockâ€‹â€‹â€‹â€‹Â Â Â Â SharesÂ Â Â Â AmountÂ Â Â Â Paid-InÂ CapitalÂ Â Â Â DeficitÂ Â Â Â SharesÂ Â Â Â AmountÂ Â Â Â TotalBalance - April 1, 2023Â 63,787,858â€‹$ 63,787â€‹$ 365,868,487â€‹$ (254,076,299)â€‹ (579,672)â€‹$ (2,476,501)â€‹$ 109,379,474Stock-Based Compensation ExpenseÂ 96,525â€‹Â 97â€‹Â 3,189,606â€‹Â â€”Â â€”â€‹Â â€”â€‹Â 3,189,703Stock Option ExercisesÂ 14,506â€‹Â 15â€‹Â 14,532â€‹Â â€”Â â€”â€‹Â â€”â€‹Â 14,547Net LossÂ â€”â€‹Â â€”â€‹Â â€”â€‹Â (9,044,920)Â â€”â€‹Â â€”â€‹Â (9,044,920)Balance - June 30, 2023Â 63,898,889â€‹$ 63,899â€‹$ 369,072,625â€‹$ (263,121,219)Â (579,672)â€‹$ (2,476,501)â€‹$ 103,538,804â€‹CommonÂ Stockâ€‹Additionalâ€‹Accumulatedâ€‹Treasury Stockâ€‹â€‹â€‹â€‹Â Â Â Â SharesÂ Â Â Â AmountÂ Â Â Â Paid-InÂ CapitalÂ Â Â Â DeficitÂ Â Â Â SharesÂ Â Â Â AmountÂ Â Â Â TotalBalance - January 1, 2023Â 63,783,779â€‹$ 63,783â€‹$ 362,507,715â€‹$ (243,835,716)â€‹ (464,672)â€‹$ (2,005,744)â€‹$ 116,730,038Stock-Based Compensation ExpenseÂ 96,525â€‹Â 97â€‹Â 6,550,382â€‹Â â€”Â â€”â€‹Â â€”â€‹Â 6,550,479Stock Option ExercisesÂ 18,585â€‹Â 19â€‹Â 14,528â€‹Â â€”Â â€”â€‹Â â€”â€‹Â 14,547Purchases of Treasury StockÂ â€”â€‹Â â€”â€‹Â â€”â€‹Â â€”Â (115,000)â€‹Â (470,757)â€‹Â (470,757)Net LossÂ â€”â€‹Â â€”â€‹Â â€”â€‹Â (19,285,503)Â â€”â€‹Â â€”â€‹Â (19,285,503)Balance - June 30, 2023Â 63,898,889â€‹$ 63,899â€‹$ 369,072,625â€‹$ (263,121,219)Â (579,672)â€‹$ (2,476,501)â€‹$ 103,538,804â€‹The accompanying notes are an integral part of these consolidated financial statements.â€‹â€‹â€‹4 Table of ContentsVUZIX CORPORATIONCONSOLIDATED STATEMENTS OF OPERATIONS(Unaudited)â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended JuneÂ 30,Â â€‹Six Months Ended JuneÂ 30,Â â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023Sales:Â â€‹Â Â Â â€‹Â Â Â â€‹Â Â Â â€‹Â Â Sales of Productsâ€‹$ 601,263â€‹$ 4,425,162â€‹$ 2,430,336â€‹$ 8,616,523Sales of Engineering Servicesâ€‹Â 491,308â€‹Â 265,673â€‹Â 666,102â€‹Â 265,673â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Total Salesâ€‹Â 1,092,571â€‹Â 4,690,835â€‹Â 3,096,438â€‹Â 8,882,196â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Cost of Sales:â€‹Â Â Â â€‹Â Â Â â€‹Â Â Â â€‹Â Â Â Cost of Sales - Products Soldâ€‹Â 1,067,452â€‹Â 3,303,979â€‹Â 2,875,044â€‹Â 6,386,418Cost of Sales - Depreciation and Amortizationâ€‹â€‹ 182,049â€‹â€‹ 257,939â€‹â€‹ 363,615â€‹â€‹ 490,855Cost of Sales - Engineering Servicesâ€‹Â 176,215â€‹Â 156,531â€‹Â 244,177â€‹Â 156,531â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Total Cost of Salesâ€‹Â 1,425,716â€‹Â 3,718,449â€‹Â 3,482,836â€‹Â 7,033,804â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Gross Profit (Loss)â€‹Â (333,145)â€‹Â 972,386â€‹Â (386,398)â€‹Â 1,848,392â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Operating Expenses:â€‹Â Â Â â€‹Â Â Â â€‹Â Â Â â€‹Â Â Â Research and Developmentâ€‹Â 2,358,726â€‹Â 2,836,552â€‹Â 5,073,115â€‹Â 5,906,349Selling and Marketingâ€‹Â 2,238,221â€‹Â 2,509,922â€‹Â 4,479,165â€‹Â 5,049,581General and Administrativeâ€‹Â 4,492,168â€‹Â 4,260,322â€‹Â 8,594,322â€‹Â 9,392,146Depreciation and Amortizationâ€‹Â 1,188,339â€‹Â 973,222â€‹Â 2,158,716â€‹Â 1,937,487Loss on Fixed Asset Disposalâ€‹Â â€”â€‹Â â€”â€‹Â 11,277â€‹Â â€”Impairment on Intangible Asset and Equity Investmentâ€‹Â 30,119,679â€‹Â â€”â€‹Â 30,119,679â€‹Â â€”Impairment of Patents and Trademarksâ€‹Â â€”â€‹Â â€”â€‹Â â€”â€‹Â 17,666â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Total Operating Expensesâ€‹Â 40,397,133â€‹Â 10,580,018â€‹Â 50,436,274â€‹Â 22,303,229â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Loss From Operationsâ€‹Â (40,730,278)â€‹Â (9,607,632)â€‹Â (50,822,672)â€‹Â (20,454,837)â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Other Income (Expense):â€‹Â Â Â â€‹Â Â Â â€‹Â Â Â â€‹Â Â Â Investment Incomeâ€‹Â 205,824â€‹Â 628,923â€‹Â 358,423â€‹Â 1,324,706Income and Other Taxesâ€‹Â (17,559)â€‹Â (35,420)â€‹Â (17,841)â€‹Â (123,215)Foreign Exchange Lossâ€‹Â (70,180)â€‹Â (30,791)â€‹Â (177,685)â€‹Â (32,157)â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Total Other Income, Netâ€‹Â 118,085â€‹Â 562,712â€‹Â 162,897â€‹Â 1,169,334â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Loss Before Provision for Income Taxesâ€‹Â (40,612,193)â€‹Â (9,044,920)â€‹Â (50,659,775)â€‹Â (19,285,503)Provision for Income Taxesâ€‹Â â€”â€‹Â â€”â€‹Â â€”â€‹Â â€”â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Net Lossâ€‹Â (40,612,193)â€‹Â (9,044,920)â€‹Â (50,659,775)â€‹Â (19,285,503)â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Basic and Diluted Loss per Common Shareâ€‹$ (0.62)â€‹$(0.14)â€‹$ (0.77)â€‹$(0.31)Weighted-average Shares Outstanding - Basic and Dilutedâ€‹Â 65,814,475â€‹Â 63,230,859â€‹Â 65,559,627â€‹Â 63,223,768â€‹The accompanying notes are an integral part of these consolidated financial statements.â€‹5 Table of ContentsVUZIX CORPORATIONCONSOLIDATED STATEMENTS OF CASH FLOWS(Unaudited)â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Six Months Ended June 30,â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023â€‹â€‹â€‹â€‹â€‹â€‹Cash Flows From (Used In) Operating ActivitiesÂ â€‹Â Â Â â€‹Â Â Net Lossâ€‹$ (50,659,775)â€‹$ (19,285,503)Non-Cash Adjustmentsâ€‹Â Â Â â€‹Â Â Â Depreciation and Amortizationâ€‹Â 2,622,866â€‹Â 2,428,342Stock-Based Compensationâ€‹Â 5,273,028â€‹Â 6,500,261Impairment of Patents and Trademarksâ€‹Â â€”â€‹Â 17,666Loss on Fixed Asset Disposalâ€‹Â 11,277â€‹Â â€”Reserve on Trade Accounts Receivableâ€‹Â 290,000â€‹Â â€”Change in Inventory Reserve for Obsolescenceâ€‹â€‹ â€”â€‹â€‹ 480,258Impairment on Intangible Asset and Equity Investmentâ€‹â€‹ 30,119,679â€‹â€‹ â€”(Increase) Decrease in Operating Assetsâ€‹Â Â Â â€‹Â Â Â Accounts Receivableâ€‹Â 513,490â€‹Â (2,986,637)Accrued Revenues in Excess of Billingsâ€‹Â (124,325)â€‹Â (40,633)Utility Improvement Refund/Employee Retention Credit Receivableâ€‹â€‹ 208,271â€‹â€‹ 466,705Inventoriesâ€‹Â (1,237,733)â€‹Â (82,454)Manufacturing Vendor Prepaymentsâ€‹Â 73,936â€‹Â 645,272Prepaid Expenses and Other Assetsâ€‹Â 441,323â€‹Â 1,692Increase (Decrease) in Operating Liabilitiesâ€‹Â Â Â â€‹Â Â Â Accounts Payableâ€‹Â (670,968)â€‹Â 408,743Accrued Expensesâ€‹Â (1,410,034)â€‹Â (641,362)Unearned Revenueâ€‹Â 30,992â€‹Â 77,980Income and Other Taxes Payableâ€‹Â 77,638â€‹Â (76,037)â€‹â€‹â€‹â€‹â€‹â€‹â€‹Net Cash Flows Used in Operating Activitiesâ€‹Â (14,440,335)â€‹Â (12,085,707)â€‹â€‹â€‹â€‹â€‹â€‹â€‹Cash Flows Used in Investing Activitiesâ€‹Â Â Â â€‹Â Â Â Purchases of Fixed Assetsâ€‹Â (929,635)â€‹Â (2,774,513)Investments in Patents and Trademarksâ€‹Â (304,406)â€‹Â (340,507)Investments in Licensesâ€‹Â (1,000,000)â€‹Â (8,000,000)Investments in Software Developmentâ€‹â€‹ â€”â€‹â€‹ (125,000)Investments in Other Assetsâ€‹Â â€”â€‹Â (200,000)â€‹â€‹â€‹â€‹â€‹â€‹â€‹Net Cash Flows Used in Investing Activitiesâ€‹Â (2,234,041)â€‹Â (11,440,020)â€‹â€‹â€‹â€‹â€‹â€‹â€‹Cash Flows Provided by (Used in) Financing Activitiesâ€‹Â Â Â â€‹Â Â Â Proceeds from Exercise of Stock Optionsâ€‹Â â€”â€‹Â 14,546Purchases of Treasury Stockâ€‹â€‹ â€”â€‹â€‹ (470,757)â€‹â€‹â€‹â€‹â€‹â€‹â€‹Net Cash Flows Provided by (Used in) Financing Activitiesâ€‹Â â€”â€‹Â (456,211)â€‹â€‹â€‹â€‹â€‹â€‹â€‹Net Increase (Decrease) in Cash and Cash Equivalentsâ€‹Â (16,674,376)â€‹Â (23,981,938)Cash and Cash Equivalents - Beginning of Periodâ€‹Â 26,555,592â€‹Â 72,563,943â€‹â€‹â€‹â€‹â€‹â€‹â€‹Cash and Cash Equivalents - End of Periodâ€‹$ 9,881,216â€‹$ 48,582,005â€‹â€‹â€‹â€‹â€‹â€‹â€‹Supplemental Disclosuresâ€‹Â Â Â â€‹Â â€‹Depreciation and Amortization included in Research and Development Expenseâ€‹$ 100,535â€‹$ â€”Stock-Based Compensation Expense - Expensed less Previously Issuedâ€‹â€‹ â€”â€‹â€‹ (50,218)â€‹The accompanying notes are an integral part of these consolidated financial statements.â€‹â€‹6 Table of ContentsVUZIX CORPORATIONNOTESÂ TO THE UNAUDITED CONSOLIDATED FINANCIAL STATEMENTSNoteÂ 1Â â€“ Basis of PresentationThe accompanying unaudited consolidated financial statements of Vuzix Corporation (â€œthe Companyâ€ or â€œVuzixâ€) have been prepared in accordance with generally accepted accounting principles in the United States of America (â€œGAAPâ€) for interim financial information and with the instructions to FormÂ 10-Q and Regulation S-X of the Securities and Exchange Commission (the â€œSECâ€). Accordingly, the unaudited consolidated financial statements do not include all information and footnotes required by GAAP for complete financial statements. In the opinion of management, all adjustments considered necessary for a fair presentation have been included. The results of the Companyâ€™s operations for the three and six months ended June 30, 2024, are not necessarily indicative of the results of the Companyâ€™s operations for the full fiscalÂ year or any other period.The accompanying interim consolidated financial statements should be read in conjunction with the audited consolidated financial statements and the notes thereto of the Company as of and for the year ended DecemberÂ 31, 2023, as reported in the Companyâ€™s Annual Report on FormÂ 10-K filed with the SEC on April 15, 2024.â€‹Customer ConcentrationsFor the three months ended June 30, 2024, four customers represented 60% of total product revenue and one customer represented 86% of engineering services revenue. For the three months ended June 30, 2023, one customer represented 75% of total product revenue. For the six months ended June 30, 2024, three customers represented 37% of total product revenue and one customer represented 82% of engineering services revenue. For the six months ended June 30, 2023, two customers represented 75% of total product revenue.As of June 30, 2024, three customers represented 93% of accounts receivable. As of December 31, 2023, two customers represented 73% of accounts receivable.Fair Value of Financial Instrumentsâ€‹The Companyâ€™s financial instruments primarily consist of cash and cash equivalents, accounts receivable, accounts payable, unearned revenue, accrued expenses, and income and other taxes payable. As of the consolidated balance sheet dates, the estimated fair values of the financial instruments were not materially different from their carrying values as presented due to the short maturities of these instruments.Going ConcernÂ Â Â The accompanying consolidated financial statements have been prepared assuming that the Company will continue as a going concern. This basis of accounting contemplates the recovery of our assets and the satisfaction of liabilities in the normal course of business. These consolidated financial statements do not include any adjustments to the specific amounts and classifications of assets and liabilities, which might be necessary should we be unable to continue as a going concern. â€‹The Financial Accounting Standards Board (FASB) issued Accounting Standards Update No. (ASU) 2014- 15, Presentation of Financial Statements â€” Going Concern (Subtopic 205-40): Disclosure of Uncertainties about an Entityâ€™s Ability to Continue as a Going Concern. As a result, management is primarily responsible for assessing if there is a going concern issue when issuing an entityâ€™s financial statements. The going concern assumption underlies all GAAP financial reporting and therefore requires and assumes that the financial statements have been prepared on a going concern basis. It presumes that a Company will continue normal business operations into the future.â€‹7 Table of ContentsAdditional disclosure is required when there is substantial doubt about business continuity or substantial doubt that has not been alleviated by managementâ€™s mitigation plans. As required under applicable accounting standards, management has concluded that substantial doubt may exist surrounding the Company's ability to meet its obligations within one year of the release of the financial statements. â€‹The Company incurred net losses for the six months ended June 30, 2024 of $50,659,775; $50,149,077 for the year ended December 31, 2023; and $40,763,573 for the year ended December 31, 2022. The Company had net cash outflows from operations of $14,440,335 for the six months ended June 30, 2024; $26,277,824 for the year ended December 31, 2023; and $24,521,082 for the year ended December 31, 2022. As of June 30, 2024, the Company had an accumulated deficit of $344,644,568. The Companyâ€™s cash outflows for investing activities were $2,234,041 for the six months ended June 30, 2024; $19,280,966 for the year ended December 31, 2023; and $21,170,816 for the year ended December 31, 2022.â€‹These factors initially raise substantial doubt about the Companyâ€™s ability to continue as a going concern. Managementâ€™s plans to alleviate the conditions that raise substantial doubt include the implementation of operational improvements and the curtailment of certain development programs, both of which the Company expects will preserve cash. â€‹The Companyâ€™s cash requirements going forward are primarily for funding operating losses, research and development, working capital and capital expenditures. The higher cash outflows for investments in the years ending December 31, 2023 and 2022 were mainly for the Companyâ€™s exclusive technology license and equity investment in microLED technology via Atomistic (see Notes 6 and 7). The Company paid $32,500,000 to Atomistic in the last two fiscal years. The Companyâ€™s license was terminated on July 1, 2024. As a result, the Company will not be paying further licensing development fees to Atomistic. Â â€‹Our cash requirements related to funding operating losses depend upon numerous factors, including new product development activities, our ability to commercialize our products, our productsâ€™ timely market acceptance, selling prices and gross margins, and other factors. Historically, the Company has met its cash needs primarily through the sale of equity securities. â€‹The Companyâ€™s management intends to take actions necessary to continue as a going concern, as discussed herein. The Company will need to grow its business significantly to become profitable and self-sustaining on a cash flow basis or it will be required to cut its operating costs significantly or raise new equity and/or debt capital. Managementâ€™s plans concerning these matters and managing our liquidity include, among other things:Â Â Â Â â—Reductions in our cash annual operating expenses by approximately $8,000,000 for 2024 across all operating areas, representing a reduction of at least 20% as compared to 2023 levels, including the areas of Research and Development, Sales and Marketing and General and Administrative;â—Implementation of a voluntary Company-wide payroll reduction program for all individuals with optional salary reductions of 10% to 50% depending upon the respective base salary level for the period running from May 1, 2024 to April 30, 2025. The expected cash savings will be approximately $2,100,000 and will result in the issuance of stock awards or stock options, at a rate of 150% or 200%, respectively, of the net cash wage reductions;â—After the impact of payroll reduction program for equity and two major rounds of staff reductions, including another round at the end of June 2024, the Companyâ€™s current weekly gross cash salary costs are now approximately $162,000 versus $263,000 at the beginning of 2024, a decrease of $101,000 per week or 38.4% (or a total of $5,252,000 on an annual basis);â—Right-sizing of operations across all areas of the Company, including head-count hiring freezes or head-count reductions;â—Further reductions in the rate of research and development spending on new technologies, particularly the use of external contractors;â—Delaying or curtailing discretionary and non-essential capital expenditures not related to near-term product and manufacturing needs and reducing other investing activities for our 2024 fiscal year as compared to 2023 and 8 Table of Contents2022, now that our waveguide manufacturing plant expansion has substantially been completed and the license fees payments under the Atomistic License have been completed; â—The expected margin contribution upon the commencement of volume manufacturing and sales of waveguides from our new waveguide manufacturing plant, particularly to OEM customers;â—Continued pursuit of licensing and strategic opportunities around our waveguide technologies with potential OEMs, which would include the receipt of upfront licensing fees and on-going supply agreements;â—Reduction in the rate of new product introductions and further leveraging of existing platforms to reduce new product development and engineering costs; andâ—Reduction in our existing products selling prices and higher volume discount levels to turn as much of our inventory of finished products into cash and pursue external manufacturers for Vuzix non-waveguide production needs.The Company has historically sold equity securities and currently has a new Registration Statement on Form S-3 that became effective in May 2024, which includes a sales agreement with an investment banking firm for the issuance and sale of up to $50,000,000 of our common stock that may be issued and sold from time to time in an â€œat the marketâ€ offering. Management monitors the capital markets on an ongoing basis and may consider raising capital if favorable market conditions develop. If the Companyâ€™s actual results are less than projected or the Company needs to raise capital for additional liquidity, the Company may be required to pursue additional equity financings, further curtail expenses, or enter into one or more strategic transactions. However, management can make no assurance that the Company will be able to successfully complete any of the forementioned pursuits on terms acceptable to the Company, or at all.â€‹While there can be no assurance the Company will be able to successfully reduce operating expenses or raise additional capital, management believes its historical ability to manage its cash flows and to obtain capital will continue into the foreseeable future. However, as a result of this uncertainty, doubt about

the Company continuing as a going concern has not been fully alleviated to the satisfaction of its external auditors as noted in their audit report included with to the Companyâ€™s 10-K filed with the SEC on April 15, 2024.â€‹Use of Estimatesâ€‹The preparation of the consolidated financial statements in conformity with accounting principles generally accepted in the United States requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities atÂ year-end and the reported amounts of revenue and expenses during the reporting period. Actual results could differ from those estimates.Variable Interest Entities The Company determines at the inception of each arrangement whether an entity in which it has made an investment or in which the Company has other variable interests is considered a variable interest entity (VIE). The Company consolidates VIEs when it is the primary beneficiary. The Company is the primary beneficiary of a VIE when it has the power to direct activities that most significantly affect the economic performance of the VIE and have the obligation to absorb the majority of their losses or benefits. If the Company is not the primary beneficiary in a VIE, the Company accounts for the investment or other variable interests in a VIE in accordance with applicable GAAP. At each reporting period, the Company assesses whether any changes in our interest or relationship with the entity affect our determination of whether the entity is a VIE and, if so, whether the Company is the primary beneficiary.We have an investment in a VIE, Atomistic, in which we are not the primary beneficiary. This VIE includes a private company investment, described further in Notes 6 and 7. We have determined that the governance and operating structures of this entity do not allow us to direct the activities that would significantly affect their economic performance. Therefore, we are not the primary beneficiary, and the results of operations and financial position of this VIE are not included in our consolidated financial statements. We had accounted for this investment as a technology license and an equity investment. The maximum exposure of this unconsolidated VIE is generally based on the current carrying value of the investment. We have determined that the single source of our exposure to this VIE was our capital investment in them. The carrying value and maximum exposure of this unconsolidated VIE was $31.8 million as of March 31, 2024; 9 Table of Contentshowever, as of June 30, 2024, the carrying value of these investments of $30.1 million was written-off due to the termination of the Companyâ€™s exclusive license. Refer to Notes 6 and 7 for further details.Recent Accounting Pronouncements Not Yet AdoptedIn December 2023, the FASB issued ASU 2023-09 "Income Taxes (Topics 740): Improvements to Income Tax Disclosures" to expand the disclosure requirements for income taxes, specifically related to the rate reconciliation and income taxes paid. ASU 2023-09 is effective for our annual periods beginning January 1, 2025, with early adoption permitted. We are currently evaluating the potential effect that the updated standard will have on our financial statement disclosures.â€‹â€‹NoteÂ 2Â â€“ Revenue Recognition and Contracts with CustomersDisaggregated RevenueThe Companyâ€™s total revenue was comprised of two major product lines: Smart Glasses Sales and Engineering Services. The following table summarizes the revenue recognized by major product line:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended â€‹Six Months Ended â€‹â€‹â€‹JuneÂ 30,Â â€‹JuneÂ 30,Â â€‹â€‹Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â 2024Â Â Â Â 2023Â Â Â Â RevenuesÂ â€‹Â Â Â â€‹Â Â Â â€‹Â Â Â â€‹Â Â Â Products Salesâ€‹$ 601,263â€‹$ 4,425,162â€‹$ 2,430,336â€‹$ 8,616,523â€‹Engineering Servicesâ€‹Â 491,308â€‹Â 265,673â€‹Â 666,102â€‹Â 265,673â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Total Revenueâ€‹$ 1,092,571â€‹$ 4,690,835â€‹$ 3,096,438â€‹$ 8,882,196â€‹â€‹Significant JudgmentsUnder Topic 606 â€œRevenue from Contracts with Customersâ€, we use judgments that could potentially impact both the timing of our satisfaction of performance obligations and our determination of transaction prices used in determining revenue recognized by major product line. Such judgments include considerations in determining our transaction prices and when our performance obligations are satisfied for our standard product sales. For our Engineering Services, performance obligations are recognized over time using the input method, and the estimated costs to complete each project are considered significant judgments.Performance ObligationsRevenues from our performance obligations are typically satisfied at a point-in-time for Smart Glasses, Waveguides and Display Engines, and our OEM Products, which are recognized when the customer obtains control and ownership, which is generally upon shipment. The Company considers shipping and handling activities performed to be fulfillment activities and not a separate performance obligation. The Company also records revenue for performance obligations relating to our Engineering Services over time by using the input method measuring progress toward satisfying the performance obligations. Satisfaction of our performance obligations related to our Engineering Services is measured by the Companyâ€™s costs incurred as aÂ percentage of total expected costs to project completion, as the inputs of actual costs incurred by the Company are directly correlated with progress toward completing the contract. As such, the Company believes that our methodologies for recognizing revenue over time for our Engineering Services correlate directly with the transfer of control of the underlying assets to our customers.Our standard product sales include a twelve (12)Â month assurance-type product warranty. In the case of certain OEM products and waveguide sales, some include a standard product warranty of up to eighteen (18)Â months to allow distribution channels to offer the end customer a full twelve (12) months of coverage. We offer extended warranties to customers which extend the standard product warranty on product sales for an additional twelve (12)Â month period. All 10 Table of Contentsrevenue related to extended product warranty sales is deferred and recognized over the extended warranty period. Our Engineering Services contracts vary from contract to contract but typically include payment terms of Net 30Â days from the date of billing, subject to an agreed upon customer acceptance period. As of June 30, 2024 and 2023, there were no outstanding performance obligations remaining for extended warranties.The following table presents a summary of the Companyâ€™s sales by revenue recognition method as aÂ percentage of total net sales for the three and six months ended June 30, 2024 and 2023:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Â Â Â Â Three Months EndedJune 30,â€‹Six Months EndedJune 30,â€‹â€‹â€‹2024Â 2023Â â€‹2024Â 2023Â Point-in-TimeÂ 55%94%â€‹78%97%Over Time â€“ Input MethodÂ 45%6%â€‹22%3%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹TotalÂ 100%100%â€‹100%100%â€‹Remaining Performance ObligationsAs June 30, 2024, the Company had $2,359,904 of remaining performance obligations under a current waveguide development project, including initial product production, which represents the remainder of transaction prices totaling $3,500,000 under this development project, which commenced in 2023, less revenue recognized under percentage of completion to date. The Company expects to recognize the remaining revenue related to this project based upon expected due dates, in the amounts of 18% in 2024 and 82% in 2025. Revenues earned less amounts invoiced at June 30, 2024 was $290,096 and $165,771 at December 31, 2023. As of June 30, 2023, the Company had approximately $80,000 of remaining performance obligations under a current waveguide development project, which amount represents the remainder of the total transaction price of approximately $800,000 under this development project, less revenue recognized under percentage of completion to date. The Company did recognize the remaining revenue related to this project in the third quarter of 2023. As of June 30, 2024, the Company had no material outstanding performance obligations related to product sales, other than its standard product warranty.â€‹NoteÂ 3Â â€“ Loss Per ShareBasic loss per share is computed by dividing the loss attributable to common stockholders by the weighted average number of common shares outstanding for the period. Diluted earnings per share reflects the potential dilution from the assumed exercise of stock options. During periods of net loss, all common stock equivalents are excluded from the diluted EPS calculation because they are anti-dilutive. Since the Company reported a net loss for the three and six months ended June 30, 2024 and 2023, the calculation for basic and diluted earnings per share is considered to be the same, as the impact of potential common shares is anti-dilutive. As of June 30, 2024 and 2023, there were 10,744,477 and 8,658,642 common stock share equivalents, for the three months then ended, respectively, potentially issuable from the exercise of stock options that could dilute basic earnings per share in the future.â€‹11 Table of ContentsNoteÂ 4Â â€“ Inventories, NetInventories are stated at the lower of cost and net realizable value, and consisted of the following:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹JuneÂ 30,Â â€‹DecemberÂ 31,Â â€‹Â Â Â Â 2024Â Â Â Â 2023â€‹â€‹â€‹â€‹â€‹â€‹â€‹Purchased Parts and Componentsâ€‹$ 10,876,973â€‹$ 9,500,415Work-in-Processâ€‹Â 291,432â€‹Â 394,923Finished Goodsâ€‹Â 5,044,284â€‹Â 4,880,643Less: Reserve for Obsolescenceâ€‹Â (5,974,526)â€‹Â (5,775,551)â€‹â€‹â€‹â€‹â€‹â€‹Inventories, Netâ€‹$ 10,238,163â€‹$ 9,000,430â€‹â€‹Note 5 â€“ Fixed AssetsFixed Assets consisted of the following:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹JuneÂ 30,Â â€‹DecemberÂ 31,Â â€‹Â Â Â Â 2024Â Â Â Â 2023Tooling and Manufacturing Equipmentâ€‹$ 9,585,842â€‹$ 8,793,192Leaseholdsâ€‹Â 2,839,164â€‹Â 3,162,695Computers and Purchased Softwareâ€‹Â 679,138â€‹Â 833,794Furniture and Equipmentâ€‹Â 2,431,846â€‹Â 2,580,904â€‹â€‹Â 15,535,990â€‹Â 15,370,585Less: Accumulated Depreciationâ€‹Â (7,347,127)â€‹Â (7,297,755)Fixed Assets, Netâ€‹$ 8,188,863â€‹$ 8,072,830â€‹December 31, 2023 asset groupings have been reclassified to conform with June 30, 2024 presentation.As of June 30, 2024 and December 31, there was $965,000 and $588,000, respectively of fixed assets that are not yet placed into service.Total depreciation expense for fixed assets for theÂ three months ended June 30, 2024 and 2023 was $231,222 and $111,934, respectively. Total depreciation expense for fixed assets for theÂ six months ended June 30, 2024 and 2023 was $522,042 and $214,385, respectively.NoteÂ 6Â â€“ Technology Licenses, Netâ€‹The changes in the Companyâ€™s Technology Licenses for the six months ended June 30, 2024, were as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹JuneÂ 30,Â â€‹DecemberÂ 31,Â â€‹Â Â Â Â 2024Â Â Â Â 2023â€‹â€‹â€‹â€‹â€‹â€‹â€‹Licensesâ€‹$ 32,443,356â€‹$ 32,443,356Write Offsâ€‹Â (30,000,000)â€‹Â â€”Less: Accumulated Amortizationâ€‹Â (1,581,778)â€‹Â (5,592,355)Licenses, Netâ€‹$ 861,578â€‹$ 26,851,001â€‹Total amortization expense related to technology licenses for the three months ended June 30, 2024 and 2023 was $835,542 and $826,984, respectively. Total amortization expense related to technology licenses for the six months ended June 30, 2024 and 2023 was $1,653,876 and $1,653,868, respectively. The estimated aggregate annual amortization expense for each of the next five fiscalÂ years is approximately $201,000.12 Table of ContentsThe Company made the decision to cease further funding of development activities with Atomistic SAS (â€œAtomisticâ€) under the license agreement, dated December 16, 2022, among the Company, Atomistic, and Atomisticâ€™s two principals (the â€œLicense Agreementâ€). The Companyâ€™s decision gave Atomistic the right under the License Agreement to terminate the Granted License (as defined under the License Agreement), which right Atomistic exercised on July 1, 2024. As a result of the termination of the granted license, on July 1, 2024, which was effective June 30, 2024, the Company determined that the technology license asset of $24,335,554, net book value as of June 30, 2024, had been impaired as the Company no longer held exclusive licensing rights to the technology for its use. Â â€‹Notwithstanding the termination of the Granted License, the Company will be entitled to certain License Royalties (as defined under the License Agreement) from Atomistic if it licenses the technology that was the subject of the granted license.â€‹Note 7 â€“ Investment in AtomisticIn addition to the write-off of the Atomistic technology license discussed in Note 6, based upon the fact that Atomistic has lost future funding from the Company and most likely will not have adequate funds on its own to complete the project without raising additional funding from other third parties, the Company also determined the equity investment has been impaired and the Company recorded a charge of $5,664,446 for the period ended June 30, 2024. The Company will retain an equity interest in Atomistic, the right to appoint a member to the Atomistic board of directors and certain other rights as an equity owner pursuant to the stock purchase agreement and shareholdersâ€™ agreement entered into in connection with the License Agreement. The Companyâ€™s equity interest in Atomistic entitles it to a preferential allocation to 49% of the distributable amounts in the event of a liquidation event, such as an acquisition of Atomistic or its assets. Â Â â€‹Future royalties of the license and the 49% liquidation preferred allocation value, if any, are considered gain contingencies and will not be recorded until any specific events materialize. Â At this specific point in time, the Company is unable to reasonably estimate a value to all those contingencies and therefore recorded a full impairment against the license and the investment in Atomistic preferred shares due to such uncertainty of potential outcomes. Â â€‹Note 8 - Other AssetsThe Companyâ€™s Other Assets, were as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹June 30,â€‹DecemberÂ 31,Â â€‹Â Â Â Â 2024Â Â Â Â 2023Private Corporation Investmentsâ€‹$ 650,000â€‹$ 450,000Additionsâ€‹â€‹ â€”â€‹â€‹ 200,000Total Private Corporation Investments (at cost)â€‹â€‹ 650,000â€‹â€‹ 650,000â€‹â€‹â€‹â€‹â€‹â€‹â€‹Software Development Costsâ€‹â€‹ 1,000,000â€‹â€‹ 875,000Additionsâ€‹â€‹ â€”â€‹â€‹ 125,000Less: Accumulated Amortizationâ€‹â€‹ (722,222)â€‹â€‹ (638,889)Software Development Costs, Netâ€‹â€‹ 277,778â€‹â€‹ 361,111â€‹â€‹â€‹â€‹â€‹â€‹Total Other Assetsâ€‹$ 927,778â€‹$ 1,011,111â€‹During the year ended December 31, 2021, the Company acquired, for a purchase price of $200,000, an ownership interest of 3%, in the form of preferred stock, in a private corporation developing smart glasses software for use by retailers in the stockkeeping of inventory, amongst other uses. In the year ended December 31, 2023, the Company purchased an additional $100,000 of preferred stock in this corporation to retain a 2% ownership interest.â€‹In June 2023, the Company purchased $100,000 of preferred stock, along with warrants, in a UK-based public company developing new semiconductor materials for displays. The investment represents less than a 1% ownership interest. 13 Table of Contentsâ€‹Total amortization expense related to all software updates, included in cost of sales, for the three months ended June 30, 2024, and 2023 were $41,668 and $83,333, respectively. Total amortization expense related to all software updates, included in cost of sales, for the six months ended June 30, 2024, and 2023 were $83,333 and $138,889, respectively.â€‹NoteÂ 9Â â€“ Accrued ExpensesAccrued expenses consisted of the following:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹JuneÂ 30,Â â€‹DecemberÂ 31,Â â€‹Â Â Â Â 2024Â Â Â Â 2023â€‹â€‹â€‹â€‹â€‹â€‹â€‹Accrued Wages and Related Costsâ€‹$ 723,432â€‹$ 1,711,707Accrued Professional Servicesâ€‹Â 151,650â€‹Â 362,100Accrued Warranty Obligationsâ€‹Â 131,327â€‹Â 188,249Other Accrued Expensesâ€‹Â â€”â€‹Â 154,387â€‹â€‹â€‹â€‹â€‹â€‹Totalâ€‹$ 1,006,409â€‹$ 2,416,443â€‹Included in Accrued Wages and Related Costs was $410,251 in severance costs for staff reductions that took place at the end of June 2024 as part of the Companyâ€™s cost reduction initiative, which was approved in June 2024 and made effective July 1, 2024.The Company has warranty obligations in connection with the sale of certain of its products. The warranty period for its products is generally twelve (12)Â months, unless the customer purchases an extended warranty for an additional twelve (12) months. The costs incurred to provide for these warranty obligations are estimated and recorded as an accrued liability at the time of sale. The Company estimates its future warranty costs based upon product-based historical performance rates and related costs to repair.The changes in the Companyâ€™s accrued warranty obligations for the six months ended June 30, 2024, were as follows:â€‹â€‹â€‹â€‹â€‹Accrued Warranty Obligations at DecemberÂ 31,Â 2023â€‹$ 188,249Reductions for Settling Warrantiesâ€‹Â (129,832)Warranties Issued During Periodâ€‹Â 72,910â€‹â€‹â€‹â€‹Accrued Warranty Obligations at JuneÂ 30,Â 2024â€‹$ 131,327â€‹â€‹NoteÂ 10Â â€“ Income TaxesThe Companyâ€™s effective income tax rate is a combination of federal, state and foreign tax rates and differs from the U.S. statutory rate due to taxes on foreign income, permanent differences including tax-exempt interest, and the resolution of tax uncertainties, offset by a valuation allowance against U.S. deferred income tax assets.â€‹NoteÂ 11Â â€“ Capital StockPreferred stockThe Board of Directors is authorized to establish and designate different series of preferred stock and to fix and determine their voting powers and other rights and terms. The Company has 5,000,000 authorized shares of preferred stock with a par value of $0.001 as of June 30, 2024, and DecemberÂ 31, 2023. Of this total, 49,626 shares are designated as SeriesÂ A Preferred Stock. There were nil shares of SeriesÂ A Preferred Stock issued and outstanding on June 30, 2024, and DecemberÂ 31, 2023.14 Table of ContentsCommon StockThe Companyâ€™s authorized common stock consists of 100,000,000 shares, par value of $0.001. There were 66,034,769 shares issued and 65,455,097 shares outstanding as of June 30, 2024 and 65,304,780 shares issued and 64,725,108 shares outstanding as of December 31, 2023. â€‹â€‹On May 6, 2024, the Company implemented a voluntary Company-wide payroll reduction program for all employees, directors and contractors with optional salary or compensation reductions of 10% to 50% depending upon the respective base salary or compensation level for the period running from May 1, 2024 to April 30, 2025. The estimated cash savings will be approximately $2,100,000 and resulted in the issuance of stock awards and stock options, at a rate of 150% or 200%, respectively, of the net cash wage reductions. â€‹The fair market value of these stock awards and stock option awards has been determined at $1.33 and $0.99, respectively, and a total of 824,711 stockÂ awards and 2,756,116 stock option awards with an exercise price of $1.33 were issued. Both the stock awards and stock option awards cliff vest on April 30, 2025. These awards are subject to vesting and resale rules.â€‹In connection with the Atomistic Technology Licenses discussed in Note 6, on November 20, 2023, the Company issued a total of 1,397,500 shares of common stock to the Founders of Atomistic SAS (â€œAtomisticâ€) for the achievement of certain technological milestones under a license agreement entered into between the Company, Atomistic and the Founders, along with cash consideration in exchange for equity in Atomistic (see Note 7). Pursuant to the Stock Purchase Agreement with Atomistic and its Founders, the Company will, contingent upon completion of certain deliverables and the achievement of further milestones contained in the Atomistic Agreements, be committed to issue, depending on the Companyâ€™s share price at the time of their issuance, a further minimum of approximately 890,000 up to a maximum of 1,446,250 common shares to the Founders of Atomistic (as consideration for certain shares of Atomistic) which would result in Vuzix owning Series A Preferred shares in Atomistic that would be converted into ordinary shares of Atomistic and Vuzix ultimately owning nearly 100% of Atomistic, with Atomistic becoming a subsidiary of the Company. â€‹Within five years of the commencement of the Atomistic Agreements, the Company has agreed to issue up to a 15% equity bonus of the previously issued common shares to Atomistic stockholders, if: (i) the Company engages in a change-of-control transaction for an implied equity value of at least $3.5 billion or (ii) the Companyâ€™s market valuation exceeds $3.5 billion. This could result in the issuance of an additional 291,346 to 473,438 shares of the Companyâ€™s common stock when that valuation target is exceeded. None of these share commitments have been issued to date.â€‹Treasury StockOn March 2, 2022, our Board of Directors approved the repurchase by the Company of up to an aggregate of $25 million of our common stock by open market or privately negotiated transactions under the Share Buyback Program. Â This program was in effect for one year and expired on March 2, 2023. During the six months ended June 30, 2023, the Company repurchasedÂ 115,000Â shares of our common stock at an average cost of $4.06, before commission of $0.03 per share. As of June 30, 2024,Â 579,672Â shares of our common stock

were held in treasury.â€‹15 Table of ContentsNoteÂ 12Â â€“ Stock-Based CompensationA summary of stock option activity related to the Companyâ€™s standard employee incentive plan (excluding options awarded under the Long-Term Incentive Plan (LTIP) â€“ Note 13) for the six months ended June 30, 2024, is as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Weightedâ€‹Averageâ€‹â€‹NumberÂ ofâ€‹Averageâ€‹RemainingÂ Lifeâ€‹Â Â Â Â OptionsÂ Â Â Â ExerciseÂ PriceÂ Â Â Â (years)Outstanding at DecemberÂ 31,Â 2023Â 2,911,308â€‹$ 7.60Â 6.30GrantedÂ 2,532,971â€‹Â 1.33Â Â 1.33Â Â Â ExercisedÂ (10,937)â€‹Â 1.33Â Â Â Expired or ForfeitedÂ (423,365)â€‹Â 7.89Â Â Â â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Outstanding at JuneÂ 30,Â 2024Â 5,009,977â€‹$ 4.43Â 7.84â€‹The weighted average remaining contractual term for all options as of June 30, 2024, and DecemberÂ 31, 2023, was 7.84Â years and 6.30Â years, respectively.As of June 30, 2024, there were 2,072,021 options that were fully vested and exercisable at a weighted average exercise price of $7.24 per share. The weighted average remaining contractual term of the vested options is 5.4Â years.As of June 30, 2024, there were 2,937,956 unvested options exercisable at a weighted average exercise price of $2.46 per share. The weighted average remaining contractual term of the unvested options is 9.6Â years.The weighted average fair value of option grants was calculated using the Black-Scholes-Merton option pricing method. As of June 30, 2024, the Company had $4,836,647 of unrecognized stock compensation expense, which will be recognized over a weighted average period of 1.2 years. During the three months ended June 30, 2024, the Company issued 232,766 shares of common stock to its independent board members as part of their annual retainer for services covering the period of July 2024 to June 2025 and for onboarding of the new director. The fair market value on the date of award of the stock issued was $1.41, resulting in an aggregate fair value of approximately $328,200. The fair market value of these awards is expensed over twelve (12) months for 212,766 shares and twenty-four (24) months for 20,000 shares beginning on July 1, 2024. â€‹On May 6, 2024, the Company implemented a voluntary Company-wide payroll reduction program for all employees, independent board members and contractors with optional salary or compensation reductions of 10% to 50% depending upon the respective base salary or compensation level for the period running from May 1, 2024 to April 30, 2025. The estimated cash savings will be approximately $2,100,000 and resulted in the issuance of stock awards and stock options, at a rate of 150% or 200%, respectively, of the net cash wage reductions. â€‹The fair market value of these stock awards and stock option awards has been determined at $1.33 and $0.99, respectively, and a total of 824,711 stockÂ awards and 2,756,116 stock option awards were issued. The total fair market value of the stock awards is $1,096,865 and the stock option awards is $2,728,555. The fair market value of these awards is being expensed over twelve (12) months, which began on May 1, 2024 and will cliff vest on April 30, 2025.â€‹For the three months ended June 30, 2024, and 2023, the Company recorded total stock-based compensation expense, including stock awards but excluding stock option awards under the Companyâ€™s LTIP, of $1,470,793 and $1,083,064, respectively. For the six months ended June 30, 2024 and 2023, the Company recorded total stock-based compensation expense, including stock awards but excluding stock option awards under the Companyâ€™s LTIP, of $2,454,444 and $2,212,630, respectively.â€‹â€‹16 Table of ContentsNote 13 â€“ Long-Term Incentive PlanOn March 17, 2021, the Company granted options to purchase a total of 5,784,000 shares of common stock to its officers and certain other members of its management team. The options were granted under the Companyâ€™s existing 2014 Incentive Stock Plan. The options have an exercise price of $19.00, with 375,000 options vesting immediately and the remaining portion vesting upon the achievement of certain equity market capitalization milestones, and revenue and EBITDA operational milestones. For the three months ended June 30, 2024, and 2023, the Company recorded non-cash stock-based compensation expense of $1,409,294 and $1,749,687, respectively, for options that vested or are probable to vest. For the six months ended June 30, 2024, and 2023, the Company recorded non-cash stock-based compensation expense of $2,818,584 and $4,287,631, respectively, for options that vested or are probable to vest. These expenses are presented in the same financial statement line items in the Statements of Operations as the cash-based compensation expenses for the same employees.â€‹The fair value of option grants was calculated using a Monte Carlo simulation for the equity market capitalization tranches and the Black-Scholes-Merton option pricing method for the operational milestone tranches. As of June 30, 2024, we had $5,974,737 of total unrecognized stock-based compensation expense for the portion of options tied to equity market capitalization milestones and the portion of options tied to operational milestones that were considered probable of achievement, all of which are being recognized over a service period of up to three to four years. The probabilities of the milestone achievements are subject to catch-up adjustments in each instance where an equity market capitalization milestone is achieved or when an operational milestone becomes probable to be achieved or is achieved. Compensation costs could be reversed in subsequent periods if an awardee leaves the Company prior to the completion of the requisite service period for market capitalization milestone or performance award vesting of a performance award no longer determined to be probable.Â If such milestones are achieved earlier in their expected service periods, the remaining unrecognized compensation expense related to that particular milestone would be accelerated and recognized in full during the period where that achievement is affirmed by the Board of Directors. As of June 30, 2024, and going forward, should all of the operational milestones which are currently not yet deemed probable of achievement become probable of achievement or are achieved, then the Company could ultimately recognize up to an additional $33.7 million in non-cash stock-based compensation expense at such time.â€‹The unvested remaining equity market and operational milestones under the LTIP with their total related option grants and criteria achievement weightings of the options available for meeting a target are shown in the following table. Of the total 5,359,500 unvested options outstanding as of June 30, 2024, there are 2,679,750 unvested options for the achievement of Equity Market Capitalization targets, 1,875,825 unvested options for the achievement of annual revenue targets, and 803,925 unvested options for the achievement of annual EBITDA Margins Before Non-Cash Charges targets.â€‹â€‹â€‹â€‹â€‹Award PotentialCriteria Achievement Weightingâ€‹50% of Options Available35% of Options Available15% of Options AvailableOptions Available(Subject to Vesting)EquityÂ MarketCapitalizationTargetLast Twelve MonthsÂ RevenueTargetLast Twelve Months EBITDA Targetâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹ 680,500$ 2,000,000,000$ 25,000,0000.0% 680,500 3,000,000,000 50,000,0002.0% 680,500 4,000,000,000 100,000,0004.0% 680,500 5,000,000,000 200,000,0006.0% 580,500 6,000,000,000 300,000,0008.0% 580,500 7,000,000,000 450,000,00010.0% 555,500 8,000,000,000 675,000,00012.0% 485,500 9,000,000,000 1,000,000,00014.0% 435,500 10,000,000,000 1,500,000,00016.0% 5,359,500â€‹â€‹â€‹â€‹â€‹17 Table of ContentsNoteÂ 14Â â€“ LitigationWe are not currently involved in any actual or pending legal proceedings or litigation we consider to be material, and we are not aware of any such material proceedings contemplated by or against us or involving our property.â€‹NoteÂ 15Â â€“ Right-of-Use Assets and LiabilitiesFuture lease payments under operating leases as of June 30, 2024, were as follows:â€‹â€‹â€‹â€‹â€‹â€‹2024â€‹$ 279,2622025â€‹Â 511,980Total Future Lease Paymentsâ€‹Â 791,242Less: Imputed Interestâ€‹Â (44,239)Total Lease Liability Balanceâ€‹$ 747,003â€‹The Company has signed lease agreements, with the largest being for its office and manufacturing facility in the West Henrietta, New York area under an operating lease that commenced October 3, 2015. On January 16, 2024, the Company exercised the second renewal extending the current lease term to November 30, 2025. As a result, the Company recorded an additional Right-of-Use asset and Right-of-Use liability of $700,770 on the Consolidated Balance Sheets as of January 16, 2024.Operating lease costs under the operating leases totaled $184,143 and $207,352 for the three months ended June 30, 2024, and 2023, respectively. Operating lease costs under the operating leases totaled $375,648 and $410,691 for the six months ended June 30, 2024, and 2023, respectively. As of June 30, 2024, the weighted average discount rate was 8.3% and the weighted average remaining lease term was 1.4Â years.â€‹Note 16 â€“ Subsequent Eventsâ€‹In connection with the Atomistic Agreements, on August 12, 2024, the Company issued a total of 174,688 shares of common stock at a fair market value of $1.04 per share (closing price on August 9, 2024) or $181,676 to the Founders of Atomistic SAS (â€œAtomisticâ€) for the achievement of certain technological milestones. This issuance will be recorded as an additional impairment charge related to the Atomistic equity investment in the third quarter of 2024. â€‹ItemÂ 2.Managementâ€™s Discussion and Analysis of Financial Condition and Results of OperationsYou should read the following discussion and analysis of financial condition and results of operations in conjunction with the financial statements and related notes appearing elsewhere in this quarterly report and in our Annual Report on FormÂ 10-K for theÂ year ended DecemberÂ 31, 2023.As used in this report, unless otherwise indicated, the terms â€œCompany,â€ â€œVuzixâ€, â€œmanagement,â€ â€œwe,â€ â€œour,â€ and â€œusâ€ refer to Vuzix Corporation.Critical Accounting Policies and Significant Developments and EstimatesThe discussion and analysis of our financial condition and results of operations is based upon our unaudited consolidated financial statements and related notes appearing elsewhere in this quarterly report. The preparation of these statements in conformity with GAAP requires the appropriate application of certain accounting policies, many of which require us to make estimates and assumptions about future events and their impact on amounts reported in our consolidated financial statements, including the statement of operations, balance sheet, cash flow and related notes. We continually evaluate our estimates used in the preparation of our financial statements, including those related to revenue 18 Table of Contentsrecognition, allowance for credit losses, inventories, warranty reserves, product warranty, carrying value of long-lived assets, fair value measurement of financial instruments, valuation of stock compensation awards, achievement of equity market capitalization and probability of operational milestones being achieved under our LTIP, and income taxes. We base our estimates on historical experience and on various other assumptions that we believe to be reasonable under the circumstances, the results of which form the basis for making judgments about carrying values of assets and liabilities that are not apparent from other sources. Since future events and their impact cannot be determined with certainty, the actual results will inevitably differ from our estimates. Such differences could be material to the consolidated financial statements.We believe that our application of accounting policies, and the estimates inherently required therein, are reasonable. We periodically re-evaluate these accounting policies and estimates and make adjustments when facts and circumstances dictate. Historically, we have found our application of accounting policies to be appropriate, and actual results have not differed materially from those determined using such necessary estimates.Management believes certain factors and trends are important in understanding our financial performance. The critical accounting policies, judgments and estimates we believe have the most significant effect on our consolidated financial statements are:â—Valuation of inventories;â—Going concern;â—Variable Interest Entities;â—Business combinations;â—Carrying value of long-lived assets;â—Software development costs;â—Revenue recognition;â—Product warranty;â—Stock-based compensation;Â andâ—Income taxes.Our accounting policies are more fully described in the notes to our consolidated financial statements included in this quarterly report and in our Annual Report on FormÂ 10-K for theÂ year ended DecemberÂ 31, 2023. There have been no significant changes in our accounting policies for the three months ended June 30, 2024.Off-Balance Sheet ArrangementsWe do not have any off-balance sheet arrangements that have, or are reasonably likely to have, an effect on our financial condition, financial statements, revenues or expenses.Business MattersWe are engaged in the design, manufacture, marketing and sale of augmented reality wearable display devices also referred to as head mounted displays (or HMDs, but also known as near-eye displays), in the form of Smart Glasses and Augmented Reality (AR) glasses. Our wearable display devices are worn like eyeglasses or attach to a head worn mount. These devices typically include cameras, sensors, and a computer that enable the user to view, record and interact with video and digital content, such as computer data, the Internet, social media or entertainment applications. Our 19 Table of Contentswearable display products integrate micro-display technology with our advanced optics to produce compact high-resolution display engines, less than half an inch diagonally, which when viewed through our Smart Glasses products create virtual images that appear comparable in size to that of a computer monitor or a large-screen television.With respect to our Smart Glasses and AR products, we are focused on the enterprise, defense, industrial, medical and commercial markets. All of the mobile display and mobile electronics markets in which we compete have been subject to rapid technological change over the last decade including the rapid adoption of tablets, larger screen sizes and display resolutions along with declining prices on mobile phones and other computing devices, and as a result we must continue to improve our productsâ€™ performance and lower our costs. We believe our technology, intellectual property portfolio and position in the marketplace give us a leadership position in AR and Smart Glasses products, waveguide optics and display engine technology.All of the mobile displays and wearable and mobile electronics markets in which we compete, including mobile and wearable displays and electronics, have been and continue to be subject to consistent and rapid technological change, with ever greater capabilities and performance, including mobile devices with larger screen sizes and improved display resolutions as well as, in many cases, reductions in pricing for mobile devices. As a result, we must continue to improve our productsâ€™ performance and lower our costs. We believe our intellectual property portfolio gives us a leadership position in the design and manufacturing of micro-display projection engines, waveguides, mechanical packaging, ergonomics, and optical systems.Recent Accounting PronouncementsSee NoteÂ 1 to the Unaudited Consolidated Financial Statements.20 Table of ContentsResults of OperationsComparison of Three Months Ended June 30, 2024 and 2023The following table compares the Companyâ€™s consolidated statements of operations data for the three months ended June 30, 2024 and 2023:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Three Months Ended JuneÂ 30,Â Â â€‹Â Â Â Â â€‹â€‹Â Â Â Â â€‹Â Â Â Â DollarÂ Â Â Â % IncreaseÂ â€‹â€‹2024â€‹2023â€‹Changeâ€‹(Decrease)Â â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Sales:Â â€‹Â Â Â Â â€‹Â Â Â â€‹Â Â Â Â Â â€‹Sales of Productsâ€‹$ 601,263Â $ 4,425,162Â $ (3,823,899)Â (86)%Sales of Engineering Servicesâ€‹Â 491,308Â â€‹ 265,673Â â€‹ 225,635Â 85%â€‹â€‹Â Â Â Â â€‹Â Â Â â€‹Â Â Â Â Â â€‹Total Salesâ€‹Â 1,092,571Â â€‹ 4,690,835Â â€‹ (3,598,264)Â (77)%â€‹â€‹Â Â Â Â â€‹Â Â Â â€‹Â Â Â Â Â â€‹Cost of Sales:â€‹Â Â Â Â â€‹Â Â Â â€‹Â Â Â Â Â â€‹Cost of Sales - Productsâ€‹Â 1,067,452Â â€‹ 3,303,979Â â€‹ (2,236,527)Â (68)%Cost of Sales - Depreciation and Amortizationâ€‹Â 182,049Â â€‹ 257,939Â â€‹ (75,890)Â (29)%Cost of Sales - Engineering Servicesâ€‹Â 176,215Â â€‹ 156,531Â â€‹ 19,684Â 13%â€‹â€‹Â Â Â Â â€‹Â Â Â â€‹Â Â Â Â Â â€‹Total Cost of Salesâ€‹Â 1,425,716Â â€‹ 3,718,449Â â€‹ (2,292,733)Â (62)%â€‹â€‹Â Â Â Â â€‹Â Â Â â€‹Â Â Â Â Â â€‹Gross Profit (Loss)â€‹Â (333,145)Â â€‹ 972,386Â â€‹ (1,305,531)Â (134)%Gross Profit (Loss)%â€‹Â (30)%Â Â â€‹ 21%Â Â â€‹Â Â Â Â Â â€‹â€‹â€‹Â Â Â â€‹Â Â Â â€‹Â Â Â Â Â â€‹Operating Expenses:â€‹Â Â Â Â â€‹Â Â Â â€‹Â Â Â Â Â â€‹Research and Developmentâ€‹Â 2,358,726Â â€‹ 2,836,552Â â€‹ (477,826)Â (17)%Selling and Marketingâ€‹Â 2,238,221Â â€‹ 2,509,922Â â€‹ (271,701)Â (11)%General and Administrativeâ€‹Â 4,492,168Â â€‹ 4,260,322Â â€‹ 231,846Â 5%Depreciation and Amortizationâ€‹Â 1,188,339Â â€‹ 973,222Â â€‹ 215,117Â 22%Impairment on Intangible Asset and Equity Investmentâ€‹Â 30,119,679Â â€‹ â€"Â â€‹ 30,119,679Â NMâ€‹â€‹Â Â Â Â â€‹Â Â Â â€‹Â Â Â Â Â â€‹Loss from Operationsâ€‹Â (40,730,278)Â â€‹ (9,607,632)Â â€‹ (31,122,646)Â 324%â€‹â€‹Â Â Â Â â€‹Â Â Â â€‹Â Â Â â€‹â€‹Other Income (Expense):â€‹Â Â Â Â â€‹Â Â Â â€‹Â Â Â Â Â â€‹Investment Incomeâ€‹Â 205,824Â â€‹ 628,923Â â€‹ (423,099)Â (67)%Income and Other Taxesâ€‹Â (17,559)Â â€‹ (35,420)Â â€‹ 17,861Â (50)%Foreign Exchange Lossâ€‹Â (70,180)Â â€‹ (30,791)Â â€‹ (39,389)Â 128%â€‹â€‹Â Â Â Â â€‹Â Â Â â€‹Â Â Â Â Â â€‹Total Other Income, Netâ€‹Â 118,085Â â€‹ 562,712Â â€‹ (444,627)Â (79)%â€‹â€‹Â Â Â Â â€‹Â Â Â â€‹Â Â Â Â Â â€‹Loss Before Provision for Income Taxesâ€‹Â (40,612,193)Â â€‹ (9,044,920)Â â€‹ (31,567,273)Â 349%Provision for Income Taxesâ€‹Â â€"Â â€‹ â€"Â â€‹ â€"Â â€"%â€‹â€‹Â Â Â Â â€‹Â Â Â â€‹Â Â Â Â Â â€‹Net Lossâ€‹$ (40,612,193)â€‹$ (9,044,920)â€‹$ (31,567,273)Â 349%â€‹21 Table of ContentsSales. Â There was a decrease in total sales for the three months ended June 30, 2024, compared to the same period in 2023 of $3,598,264, or 77%. The following table reflects the major components of our sales:â€‹Â Â Â Â Three Months Ended Â Â Â Â % ofÂ Â Â Â Three Months Ended Â Â Â Â % of Â Â Â Â DollarÂ Â Â Â % IncreaseÂ â€‹â€‹JuneÂ 30,Â 2024â€‹Total Salesâ€‹JuneÂ 30,Â 2023â€‹Total Salesâ€‹Changeâ€‹(Decrease)â€‹Sales of Productsâ€‹$ 601,263Â 55%Â Â $ 4,425,162Â 94%Â Â $ (3,823,899)Â (86)%Sales of Engineering Servicesâ€‹Â 491,308Â 45%Â Â 265,673Â 6%Â Â 225,635Â 85%Total Salesâ€‹$ 1,092,571Â 100%Â Â $ 4,690,835Â 100%Â Â $ (3,598,264)Â (77)%â€‹Sales of products decreased by 86% for the three months ended June 30, 2024, compared to the same period in 2023. Reduced sales of smart glasses was the primary driver of this decrease as unit sales of our M400 product decreased compared to the previous yearâ€™s comparable period, when an Asian distributor placed a significant order in the second quarter of 2023.Sales of engineering services for the three months ended June 30, 2024, was $491,308, compared to $265,673 in the comparable 2023 period.Cost of Sales and Gross Profit (Loss). Cost of product revenues and engineering services are comprised of materials, components, labor, warranty costs, freight costs, manufacturing overhead, software royalties, the depreciation for our tooling and manufacturing equipment, and amortization of software development costs related to the production of our products and rendering of engineering services. The following table reflects the components of our cost of goods sold:â€‹Â Â Â Â Three Months Ended Â Â Â Â As % RelatedÂ Â Â Â Three Months Ended Â Â Â Â As % RelatedÂ Â Â Â DollarÂ Â Â Â % Increaseâ€‹â€‹â€‹JuneÂ 30,Â 2024â€‹Total Salesâ€‹JuneÂ 30,Â 2023â€‹Total Salesâ€‹Changeâ€‹(Decrease)â€‹Product Cost of Salesâ€‹$ 608,554â€‹ 56%Â Â $ 2,940,253â€‹ 63%Â Â $ (2,331,699)â€‹ (79)%Manufacturing Overhead - UnappliedÂ â€‹ 458,898Â 42%Â Â â€‹ 363,726Â 8%Â Â â€‹ 95,172Â 26%Depreciation and Amortizationâ€‹â€‹ 182,049â€‹ 17%Â Â â€‹ 257,939â€‹ 5%Â Â â€‹ (75,890)â€‹ (29)%Engineering Services Cost SalesÂ â€‹ 176,215Â 16%Â Â â€‹ 156,531Â 3%Â Â â€‹ 19,684Â 13%â€‹Â â€‹Â Â Â Â Â Â â€‹Â Â Â Â Â Â â€‹Â Â Â Â Â â€‹Total Cost of Salesâ€‹$ 1,425,716Â 131%Â Â $ 3,718,449Â 79%Â Â $ (2,292,733)Â (62)%â€‹Â â€‹Â Â Â Â Â Â â€‹Â Â Â Â Â Â â€‹Gross Profit (Loss)â€‹$ (333,145)Â (31)%Â Â $ 972,386Â 21%Â Â $ (1,305,531)Â (134)%â€‹For the three months ended June 30, 2024, there was a gross loss from total sales of $333,145 or 31% as compared to a gross profit of $972,386 or 21% in the comparable period in 2023. Unapplied manufacturing overhead costs, not already added in product cost of sales, increased by $95,172 or 26% for the three months ended June 30, 2024, over the 2023 comparable period and increased as a percentage of total sales

to 42% as compared to 8% in 2023 due to lower quarterly product revenue. The increase in the net dollar amount of these unapplied overhead costs in the current period versus the prior period was primarily driven by a decrease in actual versus originally planned production levels during the period in preparation for the temporary cessation of smart glasses production in the second half of 2024 at our Rochester plant.â€‹Depreciation and Amortization included in cost of sales was 29% less than the in the 2023 period, due to the full amortization and depreciation of certain manufacturing assets. 22 Table of ContentsResearch and Development. Â Our research and development expenses consist primarily of compensation costs for personnel, including non-cash stock-based compensation expenses, third-party services, purchase of research supplies and materials, and consulting fees related to research and development. Software development expenses to determine technical feasibility before final development and ongoing maintenance are not capitalized and are included in research and development expenses.â€‹Three Months Ended â€‹% ofâ€‹Three Months Ended â€‹% ofâ€‹Dollarâ€‹% Increaseâ€‹â€‹â€‹JuneÂ 30,Â 2024â€‹Total Salesâ€‹JuneÂ 30,Â 2023â€‹Total Salesâ€‹Changeâ€‹(Decrease)â€‹Research and Developmentâ€‹$ 2,358,726Â 216%Â Â $ 2,836,552Â 60%Â Â $ (477,826)Â (17)%â€‹Research and development expenses for the three months ended June 30, 2024 decreased by $477,826 or 17%, compared to the comparable period in 2023. This decrease was largely due to a $267,008 decrease in external development costs; a $150,809 decrease in salary and benefits related expenses; and a $44,376 reduction in supplies expenses.Selling and Marketing. Â Selling and marketing expenses consist of trade show costs, advertising, sales samples, travel costs, sales staff compensation costs including non-cash stock-based compensation expense, consulting fees, public relations agency fees, website costs, and sales commissions paid to full-time staff and outside consultants.â€‹Three Months Ended â€‹%Â ofâ€‹Three Months Ended â€‹%Â ofâ€‹Dollarâ€‹% Increaseâ€‹â€‹Â Â Â Â JuneÂ 30,Â 2024Â Â Â Â Total Salesâ€‹JuneÂ 30,Â 2023Â Â Â Â Total Salesâ€‹ChangeÂ Â Â Â (Decrease)â€‹Selling and Marketingâ€‹$ 2,238,221â€‹ 205%Â Â $ 2,509,922â€‹ 54%Â Â $ (271,701)â€‹ (11)%â€‹Selling and marketing expenses for the three months ended June 30, 2024 decreased by $271,701 or 11%, compared to the comparable period in 2023. This overall decrease was largely due to a decrease of $288,049 in advertising and tradeshow expenses; a $110,150 decrease in salary and benefits related expenses driven by headcount decreases; a decrease of $76,714 in travel related expenses; and a decrease of $63,314 in external consulting expenses; partially offset by a $290,000 increase to our allowance for credit losses.General and Administrative. Â General and administrative expenses include professional fees, investor relations (IR) costs, salaries and related non-cash stock-based compensation, travel costs, and office and rental costs.â€‹Three Months Ended â€‹% ofâ€‹Three Months Ended â€‹% ofâ€‹Dollarâ€‹% Increaseâ€‹â€‹â€‹JuneÂ 30,Â 2024â€‹Total Salesâ€‹JuneÂ 30,Â 2023â€‹Total Salesâ€‹Changeâ€‹(Decrease)â€‹General and Administrativeâ€‹$ 4,492,168Â 411%Â Â $ 4,260,322Â 91%Â Â $ 231,846Â 5%â€‹General and administrative expenses for the three months ended June 30, 2024, increased by $231,846 or 5%, compared to the comparable period in 2023. This increase was largely due to an increase of $357,266 in accounting and auditing fees related to finalizing the 2023 audit; an increase of $125,364 in investor relations expenses; partially offset by a decrease of $209,443 in salary and benefits related expenses, which was primarily driven by a decrease in non-cash stock-based compensation; a decrease of $83,265 in external consulting expenses; a decrease of $34,796 in travel related expenses; and a decrease of $26,098 in rent expenses.Depreciation and Amortization. Â Depreciation and amortization expense, not included in cost of sales, for the three months ended June 30, 2024, was $1,188,339, compared to $973,222 in the comparable period in 2023 or an increase of $215,117. This increase was due to leasehold improvements being put into service this year related to our new waveguide manufacturing facility.Impairment on Intangible Asset and Equity Investment. Â For the three months ended June, 2024 there was a total impairment charges on an intangible and an equity investment of $30,119,679. Atomistic exercised on July 1, 2024 its option to terminate its previously granted license related to certain microLED technologies it was developing, and as a result of the termination of the granted license, which was effective June 30, 2024, the Company determined that the technology license asset of $24,335,554, net book value of as of June 30, 2024, has been impaired as the Company no 23 Table of Contentslonger has exclusive licensing rights to the technology for its use.Â Â The Company had a related equity interest in Atomistic, a private French company, and determined that at this point in time, the Company is unable to reasonably estimate a value to its future value and therefore recorded a full impairment of its investment in Atomistic referred shares resulting in a write-down charge of $5,664,446 for the period ended June 30, 2024. The Company still retains an equity interest in Atomistic, the right to appoint a member to the Atomistic board of directors and certain other rights as an equity owner pursuant to the stock purchase agreement and shareholdersâ€™ agreement entered into in connection with the License Agreement. The Companyâ€™s equity interest in Atomistic entitles it to a preferential allocation to 49% of the distributable amounts in the event of a liquidation event, such as an acquisition of Atomistic or its assets a share of any future royalties it receives from the technology based on the license and the 49% liquidation preferred allocation value, if any, are considered gain contingencies and will not be recorded until any specific events materialize.Â â€‹Other Income, Net. Total other income was $118,085 for the three months ended June 30, 2024, compared to other income of $562,712 in the comparable period in 2023, a decrease of $444,627. The overall decrease in other income was primarily the result of a decrease of $423,099 in investment income due to lower excess cash on-hand to invest; an increase of $39,389 in foreign exchange losses; partially offset by a decrease in Income and Other Taxes of $17,861.Provision for Income Taxes. There was not a provision for income taxes in the respective three-month periods ending June 30, 2024, and 2023.â€‹Comparison of Six Months Ended June 30, 2024 and 2023The following table compares the Companyâ€™s consolidated statements of operations data for the six months ended June 30, 2024 and 2023:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Six Months Ended JuneÂ 30,Â â€‹â€‹Â Â Â Â â€‹â€‹Â Â Â Â â€‹â€‹Â Â Â Â DollarÂ Â Â Â %Â IncreaseÂ â€‹â€‹2024â€‹2023â€‹Changeâ€‹(Decrease)Â â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Sales:Â â€‹Â Â Â â€‹Â of Productsâ€‹$ 2,430,336â€‹$ 8,616,523â€‹$ (6,186,187)Â (72)%Sales of Engineering Servicesâ€‹Â 666,102â€‹Â 265,673â€‹Â 400,429Â 151%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Total Salesâ€‹Â 3,096,438â€‹Â 8,882,196â€‹Â (5,785,758)Â (65)%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Cost of Sales:â€‹Â Â Â â€‹Â Â Â â€‹Â Â Â Â Â Â â€‹Cost of Sales - Products Soldâ€‹Â 2,875,044â€‹Â 6,386,418â€‹Â (3,511,374)Â (55)%Cost of Sales - Depreciation and Amortizationâ€‹Â 363,615â€‹Â 490,855â€‹Â (127,240)Â (26)%Cost of Sales - Engineering Servicesâ€‹Â 244,177â€‹Â 156,531â€‹Â 87,646Â 56%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Total Cost of Salesâ€‹Â 3,482,836â€‹Â 7,033,804â€‹Â (3,550,968)Â (50)%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Gross Profit (Loss)â€‹Â (386,398)â€‹Â 1,848,392â€‹Â (2,234,790)Â (121)%Gross Profit (Loss) %â€‹Â (12)%Â Â Â 21%Â Â Â Â Â Â Â Â â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Operating Expenses:â€‹Â Â Â â€‹Â Â Â â€‹Â Â Â Â Â Â â€‹ Research and Developmentâ€‹Â 5,073,115â€‹Â 5,906,349â€‹Â (833,234)Â (14)% Selling and Marketingâ€‹Â 4,479,165â€‹Â 5,049,581â€‹Â (570,416)Â (11)% General and Administrativeâ€‹Â 8,594,322â€‹Â 9,392,146â€‹Â (797,824)Â (8)% Depreciation and Amortizationâ€‹Â 2,158,716â€‹Â 1,937,487â€‹Â 221,229Â 11%Loss on Fixed Asset Disposalâ€‹Â 11,277â€‹Â â€"â€‹Â 11,277Â NMâ€‹ Impairment on Intangible Asset and Equity Investmentâ€‹Â 30,119,679â€‹Â â€"â€‹Â 30,119,679Â NMâ€‹24 Table of Contents Impairment of Patents and Trademarksâ€‹Â â€"â€‹Â 17,666â€‹Â (17,666)Â (100)%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Loss from Operationsâ€‹Â (50,822,672)â€‹Â (20,454,837)â€‹Â (30,367,835)Â 148%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Other Income (Expense):â€‹Â Â Â â€‹Â Â Â â€‹Â Â Â Â Â Â â€‹Investment Incomeâ€‹Â 358,423â€‹Â 1,324,706â€‹Â (966,283)Â (73)%Income and Other Taxesâ€‹Â (17,841)â€‹Â (123,215)â€‹Â 105,374Â (86)%Foreign Exchange Lossâ€‹Â (177,685)â€‹Â (32,157)â€‹Â (145,528)Â 453%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Total Other Income, Netâ€‹Â 162,897â€‹Â 1,169,334â€‹Â (1,006,437)Â (86)%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Net Lossâ€‹$ (50,659,775)â€‹$ (19,285,503)â€‹$ (31,374,272)Â 163%â€‹Sales. Â There was a decrease in total sales for the six months ended June 30, 2024, compared to the same period in 2023 of $5,785,758, or 65%. The following table reflects the major components of our sales:â€‹Â Â Â Â Six Months Ended Â Â Â Â % ofÂ Â Â Â Six Months Ended Â Â Â Â % ofÂ Â Â Â DollarÂ Â Â Â % Increaseâ€‹â€‹â€‹JuneÂ 30,Â 2024â€‹Total Salesâ€‹JuneÂ 30,Â 2023â€‹Total Salesâ€‹Changeâ€‹(Decrease)â€‹Sales of Productsâ€‹$ 2,430,336Â 78%Â Â $ 8,616,523Â 97%Â Â $ (6,186,187)Â (72)%Sales of Engineering Servicesâ€‹Â 666,102Â 22%Â Â Â 265,673Â 3%Â Â Â 400,429Â 151%Total Salesâ€‹$ 3,096,438Â 100%Â Â $ 8,882,196Â 100%Â Â $ (5,785,758)Â (65)%â€‹Sales of products decreased by 72% for the six months ended June 30, 2024, compared to the same period in 2023. Reduced smart glasses revenue was the primary driver of this decrease as unit sales of our M400 product decreased substantially compared to the previous yearâ€™s comparable period, when two major distributors placed significant stocking orders in the first half of 2023.Sales of engineering services for the six months ended June 30, 2024, was $666,102, compared to $265,673 in the comparable 2023 period.Cost of Sales and Gross Profit (Loss). Cost of product revenues and engineering services are comprised of materials, components, labor, warranty costs, freight costs, manufacturing overhead, software royalties, the depreciation for our tooling and manufacturing equipment, and amortization of software development costs related to the production of our products and rendering of engineering services. The following table reflects the components of our cost of goods sold:â€‹Six Months Ended â€‹% ofâ€‹Six Months Ended â€‹% ofâ€‹Dollarâ€‹% Increaseâ€‹â€‹Â Â Â Â JuneÂ 30,Â 2024Â Â Â Â Total SalesÂ Â Â Â JuneÂ 30,Â 2023Â Â Â Â Total SalesÂ Â Â Â ChangeÂ Â Â Â (Decrease)â€‹Product Cost of Salesâ€‹$ 1,925,898Â 62%Â Â $ 5,487,776Â 62%Â Â $ (3,561,878)Â (65)%Manufacturing Overhead - Unappliedâ€‹Â 949,146Â 31%Â Â Â 898,642Â 10%Â Â Â 50,504Â 6%Depreciation and Amortizationâ€‹Â 363,615Â 12%Â Â Â 490,855Â 6%Â Â Â (127,240)Â (26)%Engineering Services Cost of Salesâ€‹Â 244,177Â 7%Â Â Â 156,531Â 1%Â Â Â 87,646Â 56%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Total Cost of Salesâ€‹â€‹ 3,482,836Â 112%Â Â â€‹ 7,033,804Â 79%Â Â â€‹ (3,550,968)Â (50)%â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Gross Profit (Loss)â€‹$ (386,398)â€‹ (12)%$ 1,848,392Â 21%$ (2,234,790)Â (121)%â€‹For the six months ended June 30, 2024, there was a gross loss from total sales of $386,398 or 12% as compared to a gross profit of $1,848,392 or 21% in the comparable period in 2023. Unapplied manufacturing overhead costs, not already added in product cost of sales, increased by $50,504 or 6% for the six months ended June 30, 2024, over the 2023 comparable period and increased as a percentage of total sales to 31% as compared to 10% in 2023 due to lower quarterly product revenue. The increase in the net dollar amount of these unapplied overhead costs in the current period versus the prior period was primarily driven by a decrease in actual 25 Table of Contentsversus originally planned production levels during the period and the temporary cessation of smart glasses production in the second half of 2024.â€‹Depreciation and Amortization included in cost of sales decreased by $127,240 or 26% for the six months ended June 30, 2024 versus the 2023 period, due to the full amortization and depreciation of certain manufacturing assets. â€‹Research and Development. Â Our research and development expenses consist primarily of compensation costs for personnel, including non-cash stock-based compensation expenses, third-party services, purchase of research supplies and materials, and consulting fees related to research and development. Software development expenses to determine technical feasibility before final development and ongoing maintenance are not capitalized and are included in research and development expenses.â€‹Six Months Ended â€‹% ofâ€‹Six Months Ended â€‹% ofâ€‹Dollarâ€‹% Increaseâ€‹â€‹â€‹JuneÂ 30,Â 2024â€‹TotalÂ Salesâ€‹JuneÂ 30,Â 2023â€‹TotalÂ Salesâ€‹Changeâ€‹(Decrease)â€‹Research and Developmentâ€‹$ 5,073,115Â 164%Â Â $ 5,906,349Â 66%Â Â $ (833,234)Â (14)%â€‹Research and development expenses for the six months ended June 30, 2024 decreased by $833,234 or 14%, compared to the comparable period in 2023. This decrease was largely due to a $429,602 decrease in salary and benefits related expenses; a $309,493 decrease in external development costs; and a $49,194 decrease in supplies expenses.Selling and Marketing. Â Selling and marketing expenses consist of trade show costs, advertising, sales samples, travel costs, sales staff compensation costs including non-cash stock-based compensation expense, consulting fees, public relations agency fees, website costs, and sales commissions paid to full-time staff and outside consultants.â€‹Six Months Ended â€‹% ofâ€‹Six Months Ended â€‹% ofâ€‹Dollarâ€‹% Increaseâ€‹â€‹â€‹JuneÂ 30,Â 2024â€‹Total Salesâ€‹JuneÂ 30,Â 2023â€‹TotalÂ Salesâ€‹Changeâ€‹(Decrease)â€‹Selling and Marketingâ€‹$ 4,479,165Â 145%Â Â $ 5,049,581Â 57%Â Â $ (570,416)Â (11)%â€‹Selling and marketing expenses for the six months ended June 30, 2024 decreased by $570,416 or 11%, compared to the comparable period in 2023. This decrease was largely due to a decrease of $483,266 in advertising and tradeshow expenses; a $262,759 decrease in salary and benefits related expenses driven by headcount decreases; and a decrease of $123,741 in travel related expenses; partially offset by a $290,000 increase to our allowance for credit losses.General and Administrative. Â General and administrative expenses include professional fees, investor relations (IR) costs, salaries and related non-cash stock-based compensation, travel costs, and office and rental costs.â€‹Six Months Ended â€‹% ofâ€‹Six Months Ended â€‹% ofâ€‹Dollarâ€‹% Increaseâ€‹â€‹â€‹JuneÂ 30,Â 2024â€‹Total Salesâ€‹JuneÂ 30,Â 2023â€‹Total Salesâ€‹Changeâ€‹(Decrease)â€‹General and Administrativeâ€‹$ 8,594,322Â 278%Â Â $ 9,392,146Â 106%Â Â $ (797,824)Â (8)%â€‹General and administrative expenses for the six months ended June 30, 2024, decreased by $797,824 or 8%, compared to the comparable period in 2023. This decrease was largely due to a decrease of $1,133,267 in salary and benefits related expenses which was primarily driven by a decrease in non-cash stock-based compensation; a decrease of $183,519 in investor relations expenses; a decrease of $99,349 in external consulting expenses; a decrease of $59,531 in insurance premiums; a decrease of $40,073 in travel related expenses; and a decrease of $38,650 in rent expenses; partially offset by an increase of $435,612 in legal expenses; an increase of $285,190 in additional accounting and auditing fees related to the finalization of the 2023 audit; and an increase of $37,727 in utilities expenses.Depreciation and Amortization. Â Depreciation and amortization expense, not included in cost of sales, for the six months ended June 30, 2024, was $2,158,716, compared to $1,937,487 in the comparable period in 2023 or an 26 Table of Contentsincrease of $221,229. This increase was due to leasehold improvements being put into service this year related to our new waveguide manufacturing facility.Impairment on Intangible Asset and Equity Investment. Â For the three months ended June, 2024 there was a total impairment charges on an intangible and an equity investment of $30,119,679. Atomistic exercised on July 1, 2024 its option to terminate its previously granted license related to certain microLED technologies it was developing, and as a result of the termination of the granted license, which was effective June 30, 2024, the Company determined that the technology license asset of $24,335,554, net book value of as of June 30, 2024, has been impaired as the Company no longer has exclusive licensing rights to the technology for its use.Â Â The Company had a related equity interest in Atomistic, a private French company, and determined that at this point in time, the Company is unable to reasonably estimate a value to its future value and therefore recorded a full impairment of its investment in Atomistic referred shares resulting in a write-down charge of $5,664,446 for the period ended June 30, 2024. The Company still retains an equity interest in Atomistic, the right to appoint a member to the Atomistic board of directors and certain other rights as an equity owner pursuant to the stock purchase agreement and shareholdersâ€™ agreement entered into in connection with the License Agreement. The Companyâ€™s equity interest in Atomistic entitles it to a preferential allocation to 49% of the distributable amounts in the event of a liquidation event, such as an acquisition of Atomistic or its assets a share of any future royalties it receives from the technology based on the license and the 49% liquidation preferred allocation value, if any, are considered gain contingencies and will not be recorded until any specific events materialize.Â â€‹Other Income, Net. Total other income was $162,897 for the six months ended June 30, 2024, compared to other income of $1,169,334 in the comparable period in 2023, a decrease of $1,006,437. The overall decrease in other income was primarily the result of a decrease of $966,283 in investment income due to lower excess cash on-hand to invest; an increase of $145,528 in foreign exchange losses; partially offset by a decrease in Income and Other Taxes of $105,374.Provision for Income Taxes. There was not a provision for income taxes in the respective six-month periods ending June 30, 2024, and 2023.â€‹Liquidity and Capital ResourcesCapital Resources: As of June 30, 2024, we had cash and cash equivalents of $9,881,216, a decrease of $16,674,376 from $26,555,592 as of DecemberÂ 31, 2023.As of June 30, 2024, we had current assets of $24,661,074 compared to current liabilities of $2,586,637 which resulted in a positive working capital position of $22,074,437. As of December 31, 2023, we had a working capital position of $36,284,259. Our current liabilities are comprised principally of accounts payable, accrued expenses, and operating lease right-of-use liabilities.â€‹Summary of Cash Flows:â€‹The following table summarizes our select cash flows for the six months ended:â€‹â€‹â€‹June 30,Â â€‹â€‹â€‹June 30,Â â€‹Â Â Â Â 2024Â Â Â Â 2023Net Cash Provided by (used in)Â â€‹Â Â Â â€‹Â Â Operating Activitiesâ€‹$ (14,440,335)â€‹$ (12,085,707)Investing Activitiesâ€‹Â (2,234,041)â€‹Â (11,440,020)Financing Activitiesâ€‹Â - â€‹Â (456,211)â€‹During the six months ended June 30, 2024 we used $14,440,335 of cash for operating activities. Net changes in working capital items were $2,097,411 for the six months ended June 30, 2024, with the largest factors resulting from 27 Table of Contentsa $2,081,002 decrease in trade accounts payables and accrued expenses; a $1,163,798 increase in inventory and vendor prepayments; and a $597,436 decrease in trade accounts and other receivables. For the six months ended June 30, 2023, we used a total of $12,085,707 in cash for operating activities.During the six months ended June 30, 2024, we used $2,234,041 of cash for investing activities, which included; $929,635 in manufacturing

equipment and tooling for our new waveguide manufacturing facility; $1,000,000 final payment made towards our technology license fee commitment with Atomistic; and $304,406 in patent and trademark expenditures. For the six months ended June 30, 2023, we used a total of $11,440,020 in cash for investing activities.During the six months ending June 30, 2024, we used nil net cash for financing activities. For the six months ended June 30, 2023, we used $456,211 in net cash for financing activities.The Companyâ€™s cash requirements are primarily for funding operating losses, working capital, research and development and capital expenditures. Our operations have historically been financed primarily through net proceeds from the sale of our equity securities. The Company incurred net losses for the six months ended June 30, 2024 of $50,659,775; $50,149,077 for the year ended December 31, 2023; and $40,763,573 for the year ended December 31, 2022. The Company had net cash outflows from operations of $14,440,335 for the six months ended June 30, 2024; $26,277,824 for the year ended December 31, 2023; and $24,521,082 for the year ended December 31, 2022. As of June 30, 2024, the Company had an accumulated deficit of $344,644,568. The Companyâ€™s cash outflows for investing activities were $2,234,041 for the six months ended June 30, 2024; $19,280,966 for the year ended December 31, 2023; and $21,170,816 for the year ended December 31, 2022.The factors above raise substantial doubt about the Companyâ€™s ability to continue as a going concern. The Companyâ€™s management intends to take actions necessary to continue as a going concern, as discussed below. The Company will need to grow its business significantly to become profitable and self-sustaining on a cash flow basis or it will be required to raise new equity and/or debt capital. Managementâ€™s plans concerning these matters and managing our liquidity include, among other things:Â Â Â Â â—Reductions in our cash annual operating expenses by approximately $8,000,000 for 2024 across all operating areas, representing a reduction of at least 20% as compared to 2023 levels, including the areas of Research and Development, Sales and Marketing and General and Administrative;â—Implementation of a voluntary Company-wide payroll reduction program for all individuals with optional salary reductions of 10% to 50% depending upon the respective base salary level for the period running from May 1, 2024 to April 30, 2025. The expected cash savings will be approximately $2,100,000 and will result in the issuance of stock awards or stock options, at a rate of 150% or 200%, respectively, of the net cash wage reductions;â—Right-sizing of operations across all areas of the Company, including head-count hiring freezes or head-count reductions;â—Further reductions in the rate of research and development spending on new technologies, particularly the use of external contractors;â—Delaying or curtailing discretionary and non-essential capital expenditures not related to near-term product and manufacturing needs and reducing other investing activities for our 2024 fiscal year as compared to 2023 and 2022, now that our waveguide manufacturing plant expansion has been completed and the license fees payments under the Atomistic License have been substantially made; â—The expected margin contribution upon the commencement of volume manufacturing and sales of waveguides from our new waveguide manufacturing plant in 2024, particularly to OEM customers;â—Continued pursuit of licensing and strategic opportunities around our waveguide technologies with potential OEMs, which would include the receipt of upfront licensing fees and on-going supply agreements;â—Reduction in the rate of new product introductions and further leveraging of existing platforms to reduce new product development and engineering costs; and28 Table of Contentsâ—Reduction in our smart glasses suggested retail pricing to attract new customers and turn our large level of smart glasses finished goods into cash at a faster pace and pursue external manufacturers for Vuzix non-waveguide production needs.The Company has historically sold equity securities and currently has a new Registration Statement on Form S-3 that become effective in May 2024, which includes a sales agreement with an investment banking firm for the issuance and sale of up to $50,000,000 of our common stock that may be issued and sold from time to time in an â€œat the marketâ€ offering. Management monitors the capital markets on an ongoing basis and may consider raising capital if favorable market conditions develop. If the Companyâ€™s actual results are less than projected or the Company needs to raise capital for additional liquidity, the Company may be required to pursue additional equity financings, further curtail expenses, or enter into one or more strategic transactions. However, management can make no assurance that the Company will be able to successfully complete any of the forementioned pursuits on terms acceptable to the Company, or at all.â€‹Forward-Looking StatementsThis quarterly report includes forward-looking statements within the meaning of the Safe Harbor provisions of the Private Securities Litigation Reform Act of 1995. These statements are based on managementâ€™s beliefs and assumptions and on information currently available to our management. Forward-looking statements include, but are not limited to, statements concerning:â—trends in our operating expenses, including personnel costs, research and development expense, sales and marketing expense, and general and administrative expense;â—the effect of competitors and competition in our markets;â—our wearable smart glasses products and their market acceptance and future potential;â—our ability to develop, timely introduce, and effectively manage the introduction of new products and services or improve our existing products and services;â—expected technological advances by us or by third parties and our ability to leverage them;â—our ability to attract and retain customers;â—our ability to accurately forecast consumer demand and adequately manage our inventory;â—our ability to deliver an adequate supply of product to meet demand;â—our ability to maintain and promote our brand and expand brand awareness;â—our ability to detect, prevent, or fix defects in our products;â—our reliance on third-party suppliers, contract manufacturers and logistics providers and our limited control over such parties;â—trends in revenue, costs of revenue, and gross margin and our possible or assumed future results of operations;â—our ability to attract and retain highly skilled employees;â—the impact of foreign currency exchange rates;â—the effect of future regulations;29 Table of Contentsâ—the sufficiency of our existing cash and cash equivalent balances and cash flow from operations to meet our working capital and capital expenditure needs for at least the next twelve (12)Â months; andâ—general market, political, economic, business and public health conditions.All statements in this quarterly report that are not historical facts are forward-looking statements. We may, in some cases, use terms such as â€œanticipates,â€ â€œbelieves,â€ â€œcould,â€ â€œestimates,â€ â€œexpects,â€ â€œintends,â€ â€œmay,â€ â€œplans,â€ â€œpotential,â€ â€œpredicts,â€ â€œprojects,â€ â€œshould,â€ â€œwill,â€ â€œwouldâ€ or similar expressions that convey uncertainty of future events or outcomes to identify forward-looking statements.All such forward-looking statements are subject to certain risks and uncertainties and should be evaluated in light of important risk factors that may cause our actual results, performance or achievements to be materially different from any future results, performances or achievements expressed or implied by the forward-looking statements. These risk factors include, but are not limited to, those described in â€œRisk Factorsâ€ in this report and under ItemÂ 1A and elsewhere in our Annual Report on FormÂ 10-K for theÂ year ended DecemberÂ 31, 2023, and other filings we make with the Securities and Exchange Commission and the following: business and economic conditions, rapid technological changes accompanied by frequent new product introductions, competitive pressures, dependence on key customers, inability to gauge order flows from customers, fluctuations in quarterly and annual results, the reliance on a limited number of third-party suppliers, limitations of our manufacturing capacity and arrangements, the protection of our proprietary technology, the dependence on key personnel, changes in critical accounting estimates, potential impairments related to investments, foreign regulations, liquidity issues, and potential material weaknesses in internal control over financial reporting. Further, during weak or uncertain economic periods, customers may delay the placement of their orders. These factors often result in a substantial portion of our revenue being derived from orders placed within a quarter and shipped in the finalÂ month of the same quarter.We caution readers to carefully consider such factors. Many of these factors are beyond our control. In addition, any forward-looking statements represent our estimates only as of the date they are made and should not be relied upon as representing our estimates as of any subsequent date. While we may elect to update forward-looking statements at some point in the future, except as may be required under applicable securities laws, we specifically disclaim any obligation to do so.â€‹ItemÂ 3.Quantitative and Qualitative Disclosures about Market RiskWe invest our excess cash in high-quality short-term corporate debt instruments, which bear lower levels of relative risk. We believe that the effect, if any, of possible near-term changes in interest rates on our financial position, results of operations, and cash flows should not be material to our cash flows or income. It is possible that interest rate movements would increase our unrealized gain or loss on interest rate securities purchased at a discount. We are exposed to changes in foreign currency exchange rates primarily through transaction gains and losses as a result of non-U.S. dollar denominated cash flows related to business activities in Japan and Europe. We do not currently hedge our foreign currency exchange rate risk. We estimate that any market risk associated with our international operations is unlikely to have a material adverse effect on our business, financial condition or results of operation.â€‹ItemÂ 4.Controls and ProceduresEvaluation of Disclosure Controls and ProceduresManagement, with the participation of the Chief Executive Officer (â€œCEOâ€) and Chief Financial Officer (â€œCFOâ€), has performed an evaluation of the effectiveness of our disclosure controls and procedures that are defined in RuleÂ 13a-15 of the Securities Exchange Act of 1934, as amended (the â€œExchange Actâ€) as of the end of the period covered by this report. This evaluation included consideration of the controls, processes, and procedures that are designed to ensure that information required to be disclosed by us in the reports we file or submit under the Exchange Act is properly recorded, processed, summarized, and reported within the time periods specified in the rulesÂ and forms of the SEC and that such information is accumulated and communicated to our management, including our CEO and CFO, as appropriate, to allow timely decisions regarding required disclosure. Based on this evaluation, our management, including our CEO and CFO, concluded that our disclosure controls and procedures were effective at June 30, 2024.30 Table of ContentsChanges in Internal Control over Financial ReportingThere have not been any changes in the Companyâ€™s internal control over financial reporting (as defined in 13a-15(f)Â and 15d-15(f)Â promulgated under the Exchange Act) that occurred during the Companyâ€™s most recent fiscal quarter that have materially affected, or are reasonably likely to materially affect, the Companyâ€™s internal control over financial reporting, except for the remediation of the material weakness disclosed in the Companyâ€™s Form 10-K for the year ending December 31, 2023 filed on April 15, 2024.â€‹PartÂ II. OTHER INFORMATIONItemÂ 1.Legal ProceedingsWe are not currently involved in any actual or pending legal proceedings or litigation we consider to be material, and we are not aware of any such proceedings contemplated by or against us or involving our property.â€‹ItemÂ 1A.Risk FactorsIn addition to the other information set forth in this report you should carefully consider the factors discussed in PartÂ I, ItemÂ 1A. â€œRisk Factorsâ€ in our Annual Report on FormÂ 10-K for theÂ year ended DecemberÂ 31, 2023. There have been no material changes from those risk factors. The risks discussed in our 2023 Annual Report could materially affect our business, financial condition and future results.â€‹ItemÂ 2.Unregistered Sales of Equity Securities and Use of ProceedsSale of Unregistered Securities - noneâ€‹Purchase of Equity Securities: - noneâ€‹ItemÂ 3.Defaults Upon Senior SecuritiesNoneâ€‹ItemÂ 4.Mine Safety DisclosuresNot Applicableâ€‹ItemÂ 5.Other Information During the fiscal quarter ended June 30, 2024, no Section 16 director or officer adopted, modified, or terminated a â€œRule 10b5-1 trading arrangementâ€ (as defined in Item 408 of Regulation S-K of the Exchange Act).â€‹There were no â€œnon-Rule 10b5-1 trading arrangementsâ€ (as defined in Item 408 of Regulation S-K of the Exchange Act) adopted, modified or terminated during the fiscal quarter ended March 31, 2024 by our directors and Section 16 officers.â€‹â€‹31 Table of ContentsItemÂ 6.Exhibitsâ€‹Exhibit No.Â Â Â Â Descriptionâ€‹â€‹Â 31.1â€‹Certification of the Chief Executive Officer of the Registrant pursuant to SectionÂ 302 of the Sarbanes-Oxley Act of 2002.*Â â€‹Â 31.2â€‹Certification of the Chief Financial Officer of the Registrant pursuant to SectionÂ 302 of the Sarbanes-Oxley Act of 2002.*Â â€‹Â 32.1â€‹Certification of the Chief Executive Officer of the Registrant pursuant to 18 U.S.C. SectionÂ 1350 adopted pursuant to SectionÂ 906 of the Sarbanes-Oxley Act of 2002.**Â â€‹Â 32.2â€‹Certification of the Chief Financial Officer of the Registrant pursuant to 18 U.S.C. SectionÂ 1350 adopted pursuant to SectionÂ 906 of the Sarbanes-Oxley Act of 2002.**Â â€‹Â 101â€‹Inline XBRL Document set for the financial statements and accompanying notes in Part I, Item 1, of this Quarterly Report on Form 10-Q.â€‹â€‹â€‹104â€‹Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101)*â€‹â€‹â€‹* Filed herewith.** Furnished herewithâ€‹â€‹.32 Table of ContentsSIGNATURESPursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.Â VUZIX CORPORATIONÂ Â Â Date: August 14, 2024By:/s/ Paul TraversÂ Â Paul TraversÂ Â President, Chief Executive OfficerÂ Â (Principal Executive Officer)Â Â Â Date: August 14, 2024By:/s/ Grant RussellÂ Â Grant RussellÂ Â Executive Vice President and Chief FinancialÂ Â OfficerÂ Â (Principal Financial and Accounting Officer)â€‹â€‹â€‹33 EX-31.1 2 vuzi-20240630xex31d1.htm EX-31.1 Exhibit 31.1â€‹CERTIFICATION PURSUANT TO SECTION 302OF THE SARBANES-OXLEY ACT OF 2002â€‹I, Paul Travers, certify that:â€‹1.Â Â Â Â Â Â I have reviewed this quarterly report on Form 10-Q of Vuzix Corporation;â€‹2.Â Â Â Â Â Â Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;â€‹3.Â Â Â Â Â Â Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;â€‹4.Â Â Â Â Â Â The registrantâ€™s other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:â€‹(a)Â Â Â Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;â€‹(b)Â Â Â Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles.â€‹(c)Â Â Â Evaluated the effectiveness of the registrantâ€™s disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; andâ€‹(d)Â Â Â Disclosed in this report any change in the registrantâ€™s internal control over financial reporting that occurred during the registrantâ€™s most recent fiscal quarter (the registrantâ€™s fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrantâ€™s internal control over financial reporting; andâ€‹5.Â Â Â Â Â Â The registrantâ€™s other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrantâ€™s auditors and the audit committee of the registrantâ€™s board of directors (or persons performing the equivalent functions):â€‹(a)Â Â Â All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrantâ€™s ability to record, process, summarize and report financial information; andâ€‹(b)Â Â Â Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrantâ€™s internal control over financial reporting.â€‹Date: August 14, 2024/s/ Paul TraversÂ Paul TraversÂ President and Chief Executive Officerâ€‹ EX-31.2 3 vuzi-20240630xex31d2.htm EX-31.2 â€‹Exhibit 31.2â€‹CERTIFICATION PURSUANT TO SECTION 302OF THE SARBANES-OXLEY ACT OF 2002â€‹I, Grant Russell, certify that:â€‹1.Â Â Â Â Â Â I have reviewed this quarterly report on Form 10-Q of Vuzix Corporation;â€‹2.Â Â Â Â Â Â Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;â€‹3.Â Â Â Â Â Â Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;â€‹4.Â Â Â Â Â Â The registrantâ€™s other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:â€‹(a)Â Â Â Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;â€‹(b)Â Â Â Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles.â€‹(c)Â Â Â Evaluated the effectiveness of the registrantâ€™s disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; andâ€‹(d)Â Â Â Disclosed in this report any change in the registrantâ€™s internal control over financial reporting that occurred during the registrantâ€™s most recent fiscal quarter (the registrantâ€™s fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrantâ€™s internal control over financial reporting; andâ€‹5.Â Â Â Â Â Â The registrantâ€™s other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrantâ€™s auditors and the audit committee of the registrantâ€™s board of directors (or persons performing the equivalent functions):â€‹(a)Â Â Â All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrantâ€™s ability to record, process, summarize and report financial information; andâ€‹(b)Â Â Â Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrantâ€™s internal control over financial reporting.â€‹Date: August 14, 2024/s/ Grant RussellÂ Grant RussellÂ Executive Vice President and Chief Financial Officerâ€‹ EX-32.1 4 vuzi-20240630xex32d1.htm EX-32.1

â€‹Exhibit 32.1â€‹CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTEDPURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002â€‹In connection with the Quarterly Report of Vuzix Corporation (â€œVuzixâ€) on Form 10-Q for the quarterly period ended June 30, 2024 as filed with the Securities and Exchange Commission on the date hereof (the â€œReportâ€), I, Paul Travers, President and Chief Executive Officer of Vuzix, certify, pursuant to 18 U.S.C. Â§ 1350, as adopted pursuant to Â§ 906 of the Sarbanes-Oxley Act of 2002, that:â€‹(1)The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; andâ€‹(2)The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of Vuzix.â€‹Â /s/ Paul TraversÂ Paul TraversÂ President and Chief Executive OfficerÂ Â Date: August 14, 2024Â â€‹ EX-32.2 5 vuzi-20240630xex32d2.htm EX-32.2 â€‹Exhibit 32.2â€‹CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTEDPURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002â€‹In connection with the Quarterly Report of Vuzix Corporation (â€œVuzixâ€) on Form 10-Q for the quarterly period ended June 30, 2024 as filed with the Securities and Exchange Commission on the date hereof (the â€œReportâ€), I, Grant Russell, Executive Vice President and Chief Financial Officer of Vuzix, certify, pursuant to 18 U.S.C. Â§ 1350, as adopted pursuant to Â§ 906 of the Sarbanes-Oxley Act of 2002, that:â€‹(1)The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; andâ€‹(2)The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of Vuzix.â€‹Â /s/ Grant RussellÂ Grant RussellÂ Executive Vice President and Chief Financial OfficerÂ Â Date: August 14, 2024Â â€‹ EX-101.SCH 6 vuzi-20240630.xsd EX-101.SCH 99900 - Disclosure - Standard And Custom Axis Domain Defaults link:presentationLink link:calculationLink link:definitionLink 995200100 - Statement - CONSOLIDATED BALANCE SHEETS link:presentationLink link:calculationLink link:definitionLink 995200300 - Statement - CONSOLIDATED STATEMENTS OF OPERATIONS link:presentationLink link:calculationLink link:definitionLink 995200400 - Statement - CONSOLIDATED STATEMENTS OF CASH FLOWS link:presentationLink link:calculationLink link:definitionLink 99940401 - Disclosure - Inventories, Net - Components of Inventories (Detail) link:presentationLink link:calculationLink link:definitionLink 99940501 - Disclosure - Fixed Assets - Schedule of Fixed Assets (Details) link:presentationLink link:calculationLink link:definitionLink 99940901 - Disclosure - Accrued Expenses - Components of Accrued Expenses (Details) link:presentationLink link:calculationLink link:definitionLink 99941501 - Disclosure - Right-of-Use Assets and Liabilities - Operating Leases (Details) link:presentationLink link:calculationLink link:definitionLink 41501 - Disclosure - Right-of-Use Assets and Liabilities - Operating Leases (Details) - Calc 2 link:presentationLink link:calculationLink link:definitionLink 995200105 - Statement - CONSOLIDATED BALANCE SHEETS (Parenthetical) link:presentationLink link:calculationLink link:definitionLink 995200200 - Statement - CONSOLIDATED STATEMENTS OF CHANGES IN STOCKHOLDERS' EQUITY link:presentationLink link:calculationLink link:definitionLink 99930703 - Disclosure - Technology Licenses, Net (Tables) link:presentationLink link:calculationLink link:definitionLink 99931303 - Disclosure - Long-Term Incentive Plan (Tables) link:presentationLink link:calculationLink link:definitionLink 99940101 - Disclosure - Basis of Presentation (Details) link:presentationLink link:calculationLink link:definitionLink 99940102 - Disclosure - Basis of Presentation - Going Concern (Details) link:presentationLink link:calculationLink link:definitionLink 99940201 - Disclosure - Revenue Recognition and Contracts with Customers - Company's total revenue by major product lines (Details) link:presentationLink link:calculationLink link:definitionLink 99940202 - Disclosure - Revenue Recognition and Contracts with Customers - Company's net sales as a percentage (Details) link:presentationLink link:calculationLink link:definitionLink 40202 - Disclosure - Revenue Recognition and Contracts with Customers - Company's net sales as a percentage Default (Details) link:presentationLink link:calculationLink link:definitionLink 99940203 - Disclosure - Revenue Recognition and Contracts with Customers - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 99940601 - Disclosure - Technology Licenses, Net (Details) link:presentationLink link:calculationLink link:definitionLink 99940602 - Disclosure - Technology Licenses, Net - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 99940701 - Disclosure - Investment in Atomistic (Details) link:presentationLink link:calculationLink link:definitionLink 99940801 - Disclosure - Other Assets (Details) link:presentationLink link:calculationLink link:definitionLink 99940802 - Disclosure - Other Assets - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 99940902 - Disclosure - Accrued Expenses - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 99941101 - Disclosure - Capital Stock (Details) link:presentationLink link:calculationLink link:definitionLink 99941201 - Disclosure - Stock-Based Compensation - Summary of Stock Option Activity (Details) link:presentationLink link:calculationLink link:definitionLink 99941202 - Disclosure - Stock-Based Compensation - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 99941301 - Disclosure - Long-Term Incentive Plan (Details) link:presentationLink link:calculationLink link:definitionLink 99941302 - Disclosure - Long-Term Incentive Plan - LTIP (Details) link:presentationLink link:calculationLink link:definitionLink 99941502 - Disclosure - Right-of-Use Assets and Liabilities - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 99941601 - Disclosure - Subsequent Events (Details) link:presentationLink link:calculationLink link:definitionLink 995200090 - Document - Document and Entity Information link:presentationLink link:calculationLink link:definitionLink 995210101 - Disclosure - Basis of Presentation link:presentationLink link:calculationLink link:definitionLink 995210201 - Disclosure - Revenue Recognition and Contracts with Customers link:presentationLink link:calculationLink link:definitionLink 995210301 - Disclosure - Loss Per Share link:presentationLink link:calculationLink link:definitionLink 995210401 - Disclosure - Inventories, Net link:presentationLink link:calculationLink link:definitionLink 995210501 - Disclosure - Fixed Assets link:presentationLink link:calculationLink link:definitionLink 995210601 - Disclosure - Technology Licenses, Net link:presentationLink link:calculationLink link:definitionLink 995210701 - Disclosure - Investment in Atomistic link:presentationLink link:calculationLink link:definitionLink 995210801 - Disclosure - Other Assets link:presentationLink link:calculationLink link:definitionLink 995210901 - Disclosure - Accrued Expenses link:presentationLink link:calculationLink link:definitionLink 995211001 - Disclosure - Income Taxes link:presentationLink link:calculationLink link:definitionLink 995211101 - Disclosure - Capital Stock link:presentationLink link:calculationLink link:definitionLink 995211201 - Disclosure - Stock-Based Compensation link:presentationLink link:calculationLink link:definitionLink 995211301 - Disclosure - Long-Term Incentive Plan link:presentationLink link:calculationLink link:definitionLink 995211401 - Disclosure - Litigation link:presentationLink link:calculationLink link:definitionLink 995211501 - Disclosure - Right-of-Use Assets and Liabilities link:presentationLink link:calculationLink link:definitionLink 995211601 - Disclosure - Subsequent Events link:presentationLink link:calculationLink link:definitionLink 99920102 - Disclosure - Basis of Presentation (Policies) link:presentationLink link:calculationLink link:definitionLink 99930203 - Disclosure - Revenue Recognition and Contracts with Customers (Tables) link:presentationLink link:calculationLink link:definitionLink 99930403 - Disclosure - Inventories, Net (Tables) link:presentationLink link:calculationLink link:definitionLink 99930503 - Disclosure - Fixed Assets (Tables) link:presentationLink link:calculationLink link:definitionLink 99930803 - Disclosure - Other Assets (Tables) link:presentationLink link:calculationLink link:definitionLink 99930903 - Disclosure - Accrued Expenses (Tables) link:presentationLink link:calculationLink link:definitionLink 99931203 - Disclosure - Stock-Based Compensation (Tables) link:presentationLink link:calculationLink link:definitionLink 99931503 - Disclosure - Right-of-Use Assets and Liabilities (Tables) link:presentationLink link:calculationLink link:definitionLink 99940301 - Disclosure - Loss Per Share - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 99940903 - Disclosure - Accrued Expenses - Changes in Accrued Warranty Obligations (Details) link:presentationLink link:calculationLink link:definitionLink EX-101.CAL 7 vuzi-20240630_cal.xml EX-101.CAL EX-101.DEF 8 vuzi-20240630_def.xml EX-101.DEF EX-101.LAB 9 vuzi-20240630_lab.xml EX-101.LAB Document and Entity Information Document Type Document Quarterly Report Document Period End Date Document Transition Report Entity File Number Entity Registrant Name Entity Incorporation, State or Country Code Entity Tax Identification Number Entity Address, Address Line One Entity Address, City or Town Entity Address, State or Province Entity Address, Postal Zip Code City Area Code Local Phone Number Title of 12(b) Security Trading Symbol Security Exchange Name Entity Current Reporting Status Entity Interactive Data Current Entity Filer Category Entity Small Business Entity Emerging Growth Company Entity Shell Company Entity Common Stock, Shares Outstanding Entity Central Index Key Current Fiscal Year End Date Document Fiscal Year Focus Document Fiscal Period Focus Amendment Flag CONSOLIDATED BALANCE SHEETS Statement [Table] Statement Assets [Abstract] ASSETS Assets, Current [Abstract] Current Assets Cash and Cash Equivalents, at Carrying Value Cash and Cash Equivalents Accounts Receivable, Net, Current Accounts Receivable, net of allowance for credit losses of $1,864,000 at June 30, 2024 and $1,574,000 at December 31, 2023. Amount of accrued revenues in excess of billings. Accrued Revenues in Excess of Billings Accrued Revenues in Excess of Billings Carrying amount as of the balance sheet date of amounts receivable under utility improvement refund. Utility Improvement Refund Utility Improvement Refund Inventory, Net Inventories, Net Inventories, Net Amount of consideration paid in advance for manufacturing vendor that provide economic benefits within a future period of one year or the normal operating cycle, if longer. Prepaid Manufacturing Vendor Payments Manufacturing Vendor Prepayments Prepaid Expense and Other Assets, Current Prepaid Expenses and Other Assets Assets, Current Total Current Assets Assets, Noncurrent [Abstract] Long-Term Assets Property, Plant and Equipment, Net Fixed Assets, Net Fixed Assets, Net Additions Operating Lease, Right-of-Use Asset Operating Lease Right-of-Use Asset Intangible Assets, Net (Excluding Goodwill) Patents and Trademarks, Net Amount of finite lived license agreements, noncurrent. Finite Lived License Agreements Noncurrent Technology Licenses, Net Licenses, Net Equity Securities without Readily Determinable Fair Value, Amount Cost Method Investment in Atomistic Other Assets, Noncurrent Total Other Assets Other Assets, Net Assets Carrying value of unconsolidated VIE Total Assets Liabilities and Equity [Abstract] LIABILITIES AND STOCKHOLDERS' EQUITY Liabilities [Abstract] Liabilities Liabilities, Current [Abstract] Current Liabilities Accounts Payable, Current Accounts Payable Deferred Income, Current Unearned Revenue Accrued Liabilities, Current Accrued Expenses Total Carrying amount as of the balance sheet date of licensing fees commitment classified as current. Licensing Fees Commitment, Current Licensing Fees Commitment Accrued Income Taxes, Current Income and Other Taxes Payable Operating Lease, Liability, Current Operating Lease Right-of-Use Liability Liabilities, Current Total Current Liabilities Liabilities, Noncurrent [Abstract] Long-Term Liabilities Operating Lease, Liability, Noncurrent Operating Lease Right-of-Use Liability Liabilities Total Liabilities Stockholders' Equity Attributable to Parent [Abstract] Stockholders' Equity Common Stock, Value, Issued Common Stock - $0.001 Par Value, 100,000,000 shares authorized; 66,034,769 shares issued and 65,455,097 shares outstanding as of June 30, 2024 and 65,304,780 shares issued and 64,725,108 shares outstanding as of December 31, 2023. Additional Paid in Capital Additional Paid-in Capital Retained Earnings (Accumulated Deficit) Retained Earnings Accumulated Deficit Accumulated Deficit Treasury Stock, Value Treasury Stock, at cost, 579,672 shares as of June 30, 2024 and December 31, 2023. Stockholders' Equity Attributable to Parent Balance Balance Total Stockholders' Equity Liabilities and Equity Total Liabilities and Stockholders' Equity Accounts Receivable, Allowance for Credit Loss, Current Allowance for Doubtful Accounts Receivable Preferred Stock, Shares Issued Preferred Stock, Shares Issued Preferred stock, shares issued Preferred Stock, Shares Outstanding Preferred Stock, Shares Outstanding Preferred stock, shares outstanding Common Stock, Par or Stated Value Per Share Common Stock, Par Value Common stock, par value Common Stock, Shares Authorized Common Stock, Shares Authorized Common stock, shares authorized Common Stock, Shares, Issued Common Stock, Shares Issued Common stock, shares issued Common Stock, Shares, Outstanding Common Stock, Shares Outstanding Common stock, shares outstanding Treasury Stock, Common, Shares Common shares held in treasury CONSOLIDATED STATEMENTS OF CHANGES IN STOCKHOLDERS' EQUITY Equity Components [Axis] Equity Component [Domain] Common Stock Additional Paid-In Capital Accumulated Deficit Treasury Stock Shares, Outstanding Balance (in shares) Balance (in shares) Stock Issued During Period, Value, Share-based Compensation, Gross Stock-Based Compensation Expense Stock Issued During Period, Shares, Share-based Compensation, Gross Stock-Based Compensation Expense (in shares) Stock Issued During Period, Value, Stock Options Exercised Stock Option Exercises Share-based Compensation Arrangement by Share-based Payment Award, Options, Exercises in Period Exercised Stock Option Exercises (in shares) Value of shares of stock issued during the period under Atomistic Stock Purchase Agreement. Stock Issued During Period Value Under Atomistic Stock Purchase Agreement Stock Issued under Atomistic Stock Purchase Agreement Number of shares of stock issued during the period under Atomistic Stock Purchase Agreement. Stock Issued During Period Shares Under Atomistic Stock Purchase Agreement Stock Issued under Atomistic Stock Purchase Agreement (Shares) Value of Treasury stock shares acquired. Treasury Stock, Shares, Acquired Value Purchases of Treasury Stock Treasury Stock, Shares, Acquired Purchases of treasury stock (in shares) Net loss Net Loss Net Loss CONSOLIDATED STATEMENTS OF OPERATIONS Product and Service [Axis] Product and Service [Domain] Sales of Products Sales of Engineering Services Revenues [Abstract] Sales: Revenues Total Sales Revenue Cost of Revenue [Abstract] Cost of Sales: Cost of Goods and Service, Excluding Depreciation, Depletion, and Amortization Cost of Sales Cost, Depreciation Cost of Sales - Depreciation and Amortization Cost of Revenue Total Cost of Sales Gross Profit Gross Profit (Loss) Operating Expenses: Operating Expenses: Research and Development Expense Research and Development Selling and Marketing Expense Selling and Marketing General and Administrative Expense General and Administrative Depreciation, Depletion and Amortization, Nonproduction Depreciation and Amortization Gain (Loss) on Disposition of Property Plant Equipment Loss on Fixed Asset Disposal Amount of impairment loss recognized in the period resulting from the write-down of the carrying amount of a finite-lived intangible asset to fair value and impairment loss on investment in equity security without readily determinable fair value. Impairment On Intangible Assets And Equity Investment Impairment on Intangible Asset and Equity Investment Impairment of Intangible Assets, Finite-lived Impairment of Patents and Trademarks Operating Expenses Total Operating Expenses Operating Income (Loss) Loss From Operations Nonoperating Income (Expense) [Abstract] Other Income (Expense): Investment Income, Interest Investment Income Amount income and other taxes expenses (benefit). Income And Other Taxes Expenses (Benefit) Income and Other Taxes Foreign Currency Transaction Gain (Loss), before Tax Foreign Exchange Loss Nonoperating Income (Expense) Total Other Income, Net Income (Loss) from Continuing Operations before Income Taxes, Noncontrolling Interest Loss Before Provision for Income Taxes Earnings Per Share, Basic Basic Loss per Common Share Earnings Per Share, Diluted Diluted Loss per Common Share Weighted Average Number of Shares Outstanding, Basic Weighted-average Shares Outstanding - Basic Weighted Average Number of Shares Outstanding, Diluted Weighted-average Shares Outstanding - Diluted CONSOLIDATED STATEMENTS OF CASH FLOWS Net Cash Provided by (Used in) Operating Activities [Abstract] Cash Flows From (Used In) Operating Activities Net Income (Loss), Including Portion Attributable to Noncontrolling Interest Net Loss Adjustments to Reconcile Net Income (Loss) to Cash Provided by (Used in) Operating Activities [Abstract] Non-Cash Adjustments The current period expense including adjustments charged against earnings on long-lived, physical assets not used in production, and which are not intended for resale, to allocate or recognize the cost of such assets over their useful lives; or to record the reduction in book value of an intangible asset over the benefit period of such asset; or to reflect consumption during the period of an asset that is not used in production. Depreciation and Amortization and Adjustments Depreciation and Amortization Share-based compensation Stock-Based Compensation Accounts Receivable, Credit Loss Expense (Reversal) Reserve on Trade Accounts Receivable Reductions in inventory due to reserve for obsolescence. Inventory Reserve For Obsolescence Change in Inventory Reserve for Obsolescence Increase (Decrease) in Operating Assets [Abstract] (Increase) Decrease in Operating Assets Increase (Decrease) in Accounts Receivable Accounts Receivable The increase (decrease) during the reporting period in amount accrued revenue in excess of billings. Increase Decrease Accrued Revenue In Excess Of Billings Accrued Revenues in Excess of Billings The amount of increase (decrease) in during the reporting period in the utility improvement refund and employee retention credit receivable. Increase (Decrease) in Utility Improvement Refund and Employee Retention Credit Receivable Utility Improvement Refund/Employee Retention Credit Receivable Increase (Decrease) in Inventories Inventories Amount of increase (decrease) of consideration paid in advance for manufacturing vendors payments that provide economic benefits in future periods. Increase (Decrease) in Manufacturing Vendor Prepayments Manufacturing Vendor Prepayments Increase (Decrease) in Prepaid Expense and Other Assets Prepaid Expenses and Other Assets Increase (Decrease) in Operating Liabilities [Abstract] Increase (Decrease) in Operating Liabilities Increase (Decrease) in Accounts Payable Accounts Payable Increase (Decrease) in Accrued Liabilities Accrued Expenses Amount of increase (decrease) in deferred income, for which consideration has been received or is receivable. Increase Decrease In Deferred Income Unearned Revenue Increase (Decrease) in Income Taxes Payable Income and Other Taxes Payable Net Cash Provided by (Used in) Operating Activities Net Cash Flows Used in Operating Activities Net Cash Flows Used in Operating Activities Net Cash Provided by (Used in) Investing Activities [Abstract] Cash Flows Used in Investing Activities Payments to Acquire Property, Plant, and Equipment Purchases of Fixed Assets Payments to Acquire Intangible Assets Investments in Patents and Trademarks The Amount represents payment for investments in Licenses. Investments In Licenses Investments in Licenses Payments to Develop Software Investments in Software Development Payments to Acquire Other Productive Assets Investments in Other Assets Net Cash Provided by (Used in) Investing Activities Net Cash Flows Used in Investing Activities Net Cash Provided by (Used in) Financing Activities [Abstract] Cash Flows Provided by (Used in) Financing Activities Proceeds from Stock Options Exercised Proceeds from Exercise of Stock Options Payments for Repurchase of Common Stock Purchases of Treasury Stock Net Cash Provided by (Used in) Financing Activities Net Cash Flows Provided by (Used in) Financing Activities Cash and Cash Equivalents, Period Increase (Decrease) Net Increase (Decrease) in Cash and Cash Equivalents Cash, Cash Equivalents, Restricted Cash and Restricted Cash Equivalents Cash and Cash Equivalents - End of Period Cash and Cash Equivalents - Beginning of Period Supplemental Cash Flow Information [Abstract] Supplemental Disclosures The amount of depreciation and amortization during the period, included in research and development expense.

Depreciation and Amortization, Included in Research and Development Expense Depreciation and Amortization included in Research and Development Expense It represent the amortized value of common stock expenses in accrued expenses incurred for the particular period. Amortized Common Stock Expense in Accrued Expenses Stock-Based Compensation Expense - Expensed less Previously Issued Basis of Presentation Basis of Accounting [Text Block] Basis of Presentation Substantial Doubt about Going Concern [Text Block] Going Concern Revenue Recognition and Contracts with Customers Revenue from Contract with Customer [Text Block] Revenue Recognition and Contracts with Customers Loss Per Share Earnings Per Share [Text Block] Loss Per Share Inventories, Net Inventory Disclosure [Text Block] Inventories, Net Fixed Assets Property, Plant and Equipment Disclosure [Text Block] Fixed Assets n/a Technology Licenses, Net The entire disclosure of licenses, net. Licenses, Net [Text Block] Technology Licenses, Net Investment in Atomistic Equity Method Investments and Joint Ventures Disclosure [Text Block] Investment in Atomistic Other Assets The entire disclosure for other non current assets. Other Non Current Assets [Text Block] Other Assets Accrued Expenses Accounts Payable and Accrued Liabilities Disclosure [Text Block] Accrued Expenses Income Taxes Income Tax Disclosure [Text Block] Income Taxes Capital Stock Stockholders' Equity Note Disclosure [Text Block] Capital Stock Stock-Based Compensation Disclosure of Compensation Related Costs, Share-based Payments [Text Block] Stock-Based Compensation Long-Term Incentive Plan Compensation Related Costs, General [Text Block] Long-Term Incentive Plan Litigation Legal Matters and Contingencies [Text Block] Litigation Right-of-Use Assets and Liabilities Lessee, Operating Lease, Disclosure [Table Text Block] Right-of-Use Assets and Liabilities Subsequent Events Subsequent Events [Text Block] Subsequent Events Basis of Accounting, Policy [Policy Text Block] Basis of Presentation Disclosure of accounting policy regarding customer concentration. Customer Concentrations Policy [Policy Text Block] Customer Concentrations Fair Value of Financial Instruments, Policy [Policy Text Block] Fair Value of Financial Instruments Disclosure of accounting policy regarding going concern. Going Concern, Policy [Policy Text Block] Going Concern Use of Estimates, Policy [Policy Text Block] Use of Estimates Consolidation, Variable Interest Entity, Policy [Policy Text Block] Variable Interest Entities New Accounting Pronouncements, Policy [Policy Text Block] Recent Accounting Pronouncements Not Yet Adopted Disaggregation of Revenue [Table Text Block] Schedule of company's total revenue by major product lines Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Table Text Block] Schedule of company's net sales by revenue recognition method as a percentage of total net sales Schedule of Inventory, Current [Table Text Block] Schedule of Inventories Property, Plant and Equipment [Table Text Block] Schedule of Fixed Assets Finite-Lived Intangible Assets by Major Class [Axis] Finite-Lived Intangible Assets, Major Class Name [Domain] Licenses [Member] Licenses Schedule of Finite-Lived Intangible Assets [Table Text Block] Schedule of Finite-Lived Intangible Assets The entire disclosure for other non current assets. Schedule Of Other Assets Noncurrent [Table Text Block] Schedule of Company's Other Assets Schedule of Accrued Liabilities [Table Text Block] Schedule of Accrued expenses Schedule of Product Warranty Liability [Table Text Block] Schedule of changes in accrued warranty obligations Share-based Compensation, Stock Options, Activity [Table Text Block] Schedule of summary of stock option activity Schedule of Deferred Compensation Arrangement with Individual, Share-based Payments [Table] Deferred Compensation Arrangement with Individual, Share-based Payments [Line Items] Stock-Based Compensation Plans Long-term Incentive Plan Tabular disclosure of equity market and operational milestone under the long term incentive plan. Schedule Of Equity Market And Operational Milestones Under Long Term Incentive Plan [Table Text Block] Schedule of equity market and operational milestone under the long term Lessee, Operating Lease, Liability, Maturity [Table Text Block] Schedule of Future lease payments under operating leases Customer [Axis] Customer [Domain] Classified as one customer. One customer Classified as two customers. Two customers Classified as three customers. Three customers Classified as four customers. Four customers Concentration Risk Benchmark [Axis] Concentration Risk Benchmark [Domain] Total revenues Accounts Receivable Concentration Risk Type [Axis] Concentration Risk Type [Domain] Customer Concentration Risk Consolidated Entities [Axis] Consolidated Entities [Domain] Variable Interest Entity, Not Primary Beneficiary [Member] VIE It represents number of customers. Numbers Of Customers Number of customers Concentration Risk, Percentage Concentration Risk, Percentage Share-based Compensation Arrangement by Share-based Payment Award, Shares Issued in Period Stock award issued Variable Interest Entity, Reporting Entity Involvement, Maximum Loss Exposure, Amount Maximum exposure of unconsolidated VIE Write-off of investments during the period. Investments, Write Off Investments related to writeoff Counterparty Name [Axis] Counterparty Name [Domain] Represents information pertaining to Atomistic SAS. Atomistic SAS Atomistic SAS Collaborative Arrangement and Arrangement Other than Collaborative [Axis] Collaborative Arrangement and Arrangement Other than Collaborative [Domain] Represents information pertaining to Atomistic agreements. Atomistic Agreement [Member] Atomistic agreement Scenario [Axis] Scenario, Unspecified [Domain] Forecast [Member] Forecast Range [Axis] Range [Domain] Minimum Maximum The cash outflow associated with payments to invest to technology license and equity investment in microLED technology during the period. Payments for Investment in technology license and equity investment in microLED technology Payments for investment to Atomistic Substantial Doubt about Going Concern, within One Year [true false] Decrease in cash annual operating expenses. Decrease in cash annual operating expenses Decrease in cash annual operating expenses Percentage of decrease in cash annual operating expenses. Percentage of Decrease in Cash Annual Operating Expenses Percentage of decrease in cash annual operating expenses Percentage of optional salary reductions. Percentage of Optional Salary Reductions Percentage of optional salary reductions Expected cash saving due to payroll reduction program. Expected Cash Saving Due To Payroll Reduction Program Expected cash saving due to payroll reduction program Rate of issuance of stock awards or stock options due to salary reduction program. Rate of Issuance of Stock Awards or Stock Options Due to Salary Reduction Program Rate of issuance of stock awards or stock options due to salary reduction program Estimated total common stock value may be issued and sold. Estimated Total common stock value to be sold Estimated total common stock value to be issued and sold Amount of salary expense incurred per week post payroll reduction program. Salary Expense, Per Week Current weekly gross cash salary costs Amount of decrease in weekly salary expense post payroll reduction program. Decrease In Salary Expense Per Week Decrease in salary expense per week Amount of decrease in salary expense post payroll reduction program annually. Decrease In Salary Expense Per Year Annually decrease in salary expense Percentage of decrease in weekly salary expense post payroll reduction program. Percentage Of Decrease In Salary Expense Per Week Percentage of decrease in salary expense per week Product Or Service Axis [Axis] Product Or Service [Domain] Smart Glasses Sales Products Sales Engineering Services Represents the number of Number of major product lines. Number of major product lines Number of major product lines Revenue Performance Obligation recognition Method [Axis] Revenue Performance Obligation recognition Method [Domain] Point-in-Time Over Time - Input Method Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis] Revenue, Remaining Performance Obligation, Percentage Revenue, Remaining Performance Obligation, Percentage Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Period Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Period It represents the percentage rate of revenue performance obligation. Revenue Performance Obligation Percentage Revenue performance obligation percentage Extended warranties Represents the information pertaining to OEM product and waveguide sales. OEM products and waveguide sales Represents information pertaining to standard product warranty. Standard Product Warranty Term Standard product warranty term Revenue, Remaining Performance Obligation, Amount Revenue, remaining performance obligations Amount of total transaction price of performance obligation. Revenue, Performance Obligation, Total Transaction Price Revenue, performance obligation, total transaction price Antidilutive Securities Excluded from Computation of Earnings Per Share, Amount Anti-dilutive shares Inventory, Raw Materials and Purchased Parts, Gross Purchased Parts and Components Inventory, Work in Process, Gross Work-in-Process Inventory, Finished Goods, Gross Finished Goods Inventory Valuation Reserves Less: Reserve for Obsolescence Property, Plant and Equipment [Table] Long-Lived Tangible Asset [Axis] Property, Plant and Equipment, Type [Domain] Tooling and Manufacturing Equipment Leaseholds Computers and Purchased Software No definition available. Furniture and Equipment Property, Plant and Equipment [Line Items] Property, Plant and Equipment Property, Plant and Equipment, Gross Fixed Assets, Gross Accumulated Depreciation, Depletion and Amortization, Property, Plant, and Equipment Less: Accumulated Depreciation Amount of fixed assets purchased but not used in the normal conduct of business to produce goods and services and not intended for resale. Property, Plant and Equipment, Not Placed In Service Fixed assets not yet placed in service Depreciation Depreciation expense Licenses Net [Table] Licenses Net [Table] Licensing agreements Licenses Net [Line Items] Licenses Net [Line Items] Licenses Net Finite-Lived Intangible Assets, Gross Licenses The amount of write-down from the carrying value of a finite-lived intangible asset. Finite Lived Intangible Assets, Write Off Write Offs Finite-Lived Intangible Assets, Accumulated Amortization Less: Accumulated Amortization Less: Accumulated Amortization Amortization of Intangible Assets Amortization Expense Finite-Lived Intangible Assets, Amortization Expense, Next Twelve Months Annual amortization expense (Year1) Finite-Lived Intangible Asset, Expected Amortization, Year Two Annual amortization expense (Year2) Finite-Lived Intangible Asset, Expected Amortization, Year Three Annual amortization expense (Year3) Finite-Lived Intangible Asset, Expected Amortization, Year Four Annual amortization expense (Year4) Finite-Lived Intangible Asset, Expected Amortization, Year Five Annual amortization expense (Year5) Net book value as of the balance sheet date of finite lived intangible assets impaired by the company. Net Book Value Of Finite Lived Intangible Assets Impaired Net book value Equity Securities without Readily Determinable Fair Value [Table] Ownership [Axis] Ownership [Domain] Equity Securities without Readily Determinable Fair Value [Line Items] Equity Securities without Readily Determinable Fair Value, Impairment Loss, Annual Amount Impairment charges on investment The percentage of preferential allocation of the distributable amounts to the company, in the event of liquidation event. Preferential Allocation of Amounts on Liquidation, Percentage Preferential Allocation Other Assets, Noncurrent [Abstract] Software Development The amount of private corporation investments, gross. Private Corporation Investments Gross Private Corporation Investments The amount of private corporation investments, additions. Private Corporation Investments Additions Additions The amount of non current assets relating to private corporation. Private Corporation Assets Non current Total Private Corporation Investments (at cost) Development Costs, Period Cost Software Development Costs The amount of Development Costs, Net. Development Costs, Net Software Development Costs, Net Other assets [Table] Investment, Name [Axis] Investment, Name [Domain] Private Corporation [Member] Private Corporation Represents the information pertaining to UK based public company. UK Based Public Company Other assets [Line Items] Other assets Amount of purchasing business consideration. Purchase Price Purchase price Equity Method Investment, Ownership Percentage Ownership interest Accrued Employee Benefits, Current Accrued Wages and Related Costs Accrued Professional Fees, Current Accrued Professional Services Product Warranty Accrual, Current Accrued Warranty Obligations Other Accrued Liabilities, Current Other Accrued Expenses Severance Costs Severance costs Represents the information pertaining to extended product warranty term. Extended Product Warranty Term Extended product warranty term Standard and Extended Product Warranty Accrual Accrued Warranty Obligations at June 30, 2024 Accrued Warranty Obligations at December 31, 2023 Standard and Extended Product Warranty Accrual, Decrease for Payments Reductions for Settling Warranties Standard and Extended Product Warranty Accrual, Increase for Warranties Issued Warranties Issued During Period Class of Stock [Axis] Class of Stock [Domain] Series A Preferred Stock Preferred Stock, Shares Authorized Preferred stock, shares authorized Preferred Stock, Par or Stated Value Per Share Preferred stock, par value Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Nonvested, Weighted Average Grant Date Fair Value Fair market value of stock awards Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Grants in Period Stock awards issued Share-based Compensation Arrangement by Share-based Payment Award, Options, Grants in Period, Gross Stock option awards issued Share-based Compensation Arrangement by Share-based Payment Award, Options, Grants in Period, Weighted Average Grant Date Fair Value Fair market value of stock option awards Stock Repurchase Program, Authorized Amount Aggregate value of shares authorized Term of share repurchase program. Share Repurchase Program Term Share repurchase program term Treasury Stock Acquired, Average Cost Per Share Average cost Total commission cost of shares repurchased divided by the total number of shares repurchased. Treasury Stock Acquired, Average Commission Cost Per Share Commission cost per share Number of shares issuable upon achievement of performance milestones in a collaboration arrangement. Collaboration Arrangement, Shares Issuable Based on Performance Milestones Issuance of shares, performance milestones (in shares) Noncontrolling Interest, Ownership Percentage by Parent Ownership percent Share Price Market share price The period within which equity bonus agreed to be paid from commencement of agreement. Collaboration Arrangement, Equity Bonus, Period from Commencement of Agreement Period for equity bonus Th percent of equity bonus to be issued. Collaboration Arrangement, Percent of Equity Bonus Equity bonus (as a percent) The threshold amount of market valuation. Collaboration Arrangement, Threshold Market Valuation Threshold market valuation Number of shares issuable upon exceeding valuation target in collaboration arrangement. Collaboration Arrangement, Shares Issuable on Exceeding Valuation Target Issuance of shares on exceeding valuation target (in shares) Number of commitments shares issued to date in a collaboration arrangement. Collaboration Arrangement, Share Commitments Issued Share commitments issued to date Schedule of Share-based Compensation, Shares Authorized under Stock Option Plans, by Exercise Price Range [Table] Option Indexed to Issuer's Equity, Type [Axis] Option Indexed to Issuer's Equity, Type [Domain] Share-based Compensation, Shares Authorized under Stock Option Plans, Exercise Price Range [Line Items] Share-based Compensation, Shares Authorized under Stock Option Plans, Exercise Price Range [Line Items] Share-based Compensation Arrangement by Share-based Payment Award, Options, Outstanding [Roll Forward] Number of Options Share-based Compensation Arrangement by Share-based Payment Award, Options, Outstanding, Number Outstanding, Ending Balance Outstanding, Beginning Balance Share-based Compensation Arrangement by Share-based Payment Award, Options, Grants in Period, Net of Forfeitures Granted Share-based Compensation Arrangement by Share-based Payment Award, Options, Forfeitures in Period Expired or Forfeited Share-based Compensation Arrangement by Share-based Payment Award, Options, Weighted Average Exercise Price [Abstract] Share Based Compensation Arrangement By Share Based Payment Award Options Weighted Average Exercise Price [Abstract] Weighted Average Exercise Price Share-based Compensation Arrangement by Share-based Payment Award, Options, Outstanding, Weighted Average Exercise Price Outstanding, Ending Balance Outstanding, Beginning Balance Share-based Compensation Arrangements by Share-based Payment Award, Options, Grants in Period, Weighted Average Exercise Price Granted Share-based Compensation Arrangements by Share-based Payment Award, Options, Exercises in Period, Weighted Average Exercise Price Exercised Expired or Forfeited Share-based Compensation Arrangements by Share-based Payment Award, Options, Forfeitures in Period, Weighted Average Exercise Price Share-based Compensation Arrangement by Share-based Payment Award, Options, Additional Disclosures [Abstract] Weighted Average Remaining Life (Years) Share-based Compensation Arrangement by Share-based Payment Award, Options, Outstanding, Weighted Average Remaining Contractual Term Options outstanding, weighted average remaining life (years) Title of Individual [Axis] Relationship to Entity [Domain] Leader of board of directors and Person or persons designated as part of management. Board of directors and management members Board of directors and management Share-based Compensation Arrangement by Share-based Payment Award, Options, Exercisable, Number Exercisable options outstanding shares Share-based Compensation Arrangement by Share-based Payment Award, Options, Exercisable, Weighted Average Exercise Price Exercise price Weighted average exercise price per share, Exercisable Share-based Compensation Arrangement by Share-based Payment Award, Options, Exercisable, Weighted Average Remaining Contractual Term Weighted average remaining contractual term on vested options Share-based Compensation Arrangement by Share-based Payment Award, Equity Instruments Other than Options, Nonvested, Number Unvested options outstanding, shares Share Based Compensation Arrangement By Share Based Payment Award Equity Instruments Other Than Options Outstanding Weighted Average Exercise Price Share Based Compensation Arrangement By Share Based Payment Award Equity Instruments Other Than Options Outstanding Weighted Average Exercise Price Unvested options outstanding, Weighted average exercise price Share-based Compensation Arrangement by Share-based Payment Award, Equity Instruments Other than Options, Outstanding, Weighted Average Remaining Contractual Terms Unvested options outstanding weighted average remaining life (years) Employee Service Share-based Compensation, Nonvested Awards, Compensation Cost Not yet Recognized Unrecognized stock compensation expense Employee Service Share-based Compensation, Nonvested Awards, Compensation Cost Not yet Recognized, Period for Recognition Weighted average recognition period Represents the total fair value of equity instruments other than options granted during the reporting period. Excludes share and unit options. Share Based Compensation Arrangement By Share Based Payment Award, Equity Instruments Other Than Options Grants In Period Total Grant Date Fair Value Aggregate fair value Number of shares issued under share-based payment arrangement, for which their fair market value is expensed over twelve months. Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Market Value Of Shares Issued in Period, Which Is Expensed Over Twelve Months Fair market value is expensed over twelve months Number of shares issued under share-based payment arrangement, for which their fair market value is expensed over twenty four months. Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Market Value Of Shares Issued in Period, Which Is Expensed Over Twenty Four Months Fair market value is expensed over twenty-four months Represents the total fair value of options granted during the reporting period. Share Based Compensation Arrangement By Share Based Payment Award Options Grants In Period Total Grant Date Fair Value Total fair value of options granted during the reporting period. Period over which the fair market value of awards granted under the share-based payment arrangement is expensed. Share-Based Compensation Arrangement, Period Over Which Fair Market Value Of Awards Is Expensed Period of fair market value of awards granted under the share-based payment Share-Based compensation excludes the long term incentive plan expense. Share Based Compensation

exclude the long term incentive plan Share-Based compensation excludes the long term incentive plan expense Equity-Based Arrangements, Individual Contracts, Type of Deferred Compensation [Axis] Equity-Based Arrangements, Individual Contracts, Type of Deferred Compensation [Domain] Represents information relating to stock option tied to equity market capitalization milestone. Stock options tied to equity market capitalization milestone Vesting [Axis] Vesting [Domain] Vest immediately Plan Name [Axis] Plan Name [Domain] Represent the information pertaining to Long-term Incentive Plan 2021 Long-term Incentive Plan 2021 Represents equity market capitalization targets member. Equity Market Capitalization Targets Equity Market Capitalization Targets Represents annual revenue targets member. Annual Revenue Targets [Member] Annual Revenue Targets Represents annual EBITDA Margins Before Non-Cash Charges targets member. Annual EBITDA Margins Before Non-Cash Charges Targets [Member] Annual EBITDA Margins Before Non-Cash Charges Targets Vesting of award under share-based payment arrangement. Share-based Compensation Arrangement by Share-based Payment Award, Award Vesting Shares Shares vesting The amount of threshold additional stock based compensation expense that could be recognized under the long term incentive plan. Threshold Additional Stock Based Compensation Expense That Could Be Recognized Additional stock based compensation expense Options available in equity market and operational milestone under the long term incentive plan. Equity Market And Operational Milestone, Options Available Options available in equity market and operational milestone Represents information relating to stock option tied to equity market and operational milestones. Stock option tied to equity market and operational milestones Represents the information pertaining to equity market and operational milestone one. Equity market and operational milestone one Represents the information pertaining to equity market and operational milestone two. Equity market and operational milestone two Represents the information pertaining to equity market and operational milestone three. Equity market and operational milestone three Represents the information pertaining to equity market and operational milestone four. Equity market and operational milestone four Represents the information pertaining to equity market and operational milestone five. Equity market and operational milestone five Represents the information pertaining to equity market and operational milestone six. Equity market and operational milestone six Represents the information pertaining to equity market and operational milestone seven. Equity market and operational milestone seven Represents the information pertaining to equity market and operational milestone eight. Equity market and operational milestone eight Represents the information pertaining to equity market and operational milestone nine. Equity market and operational milestone nine Percentage of weightage for equity market capitalization threshold. Percentage Of Weightage For Equity Market Capitalization Threshold Percentage of weightage for equity market capitalization target Percentage of weightage for last twelve months revenue target. Percentage Of Weightage For Last Twelve Months Revenue Target Percentage of weightage for last twelve months revenue target Percentage of weightage for last twelve months EBITDA margin before non-cash charges target. Percentage Of Weightage For Last Twelve Months E B I T D A Margin Before Non Cash Charges Target Percentage of weightage for last twelve months EBITDA margin before non-cash charges The amount of equity market capitalization threshold under the long term incentive plan. Long Term Incentive Plan, Equity Market Capitalization Amount of equity market capitalization target The amount of last twelve months revenue target under the equity market and operational milestones under the LTIP. Long Term Incentive Plan, Last Twelve Months Revenue Target Amount of last twelve months revenue target under the equity market and operational milestone under LTIP Percentage of last twelve months EBITDA margin before non-cash charges target. Percentage Of Last Twelve Months E B I T D A Margin Before Non Cash Charges Target Percentage of last twelve months EBITDA margin before non-cash charges target Lessee, Operating Lease, Liability, Payments, Remainder of Fiscal Year 2024 Operating Leases, Future Minimum Payments Due, Next Twelve Months 2025 Lessee, Operating Lease, Liability, Payments, Due Total Future Lease Payments Lessee, Operating Lease, Liability, Undiscounted Excess Amount Less: Imputed Interest Operating Lease, Liability Total Lease Liability Balance Operating Lease, Right-of-Use Asset, Amortization Expense Operating lease costs Operating Lease, Weighted Average Discount Rate, Percent Weighted average discount rate Operating Lease, Weighted Average Remaining Lease Term Weighted average remaining term Amount of increase (decrease) in operating lease assets. Increase (Decrease) in Operating Lease Assets Increase in operating lease asset Amount of increase in operating lease liabilities. Increase in Operating Lease Liabilities Increase in operating lease liability Subsequent Event [Table] Subsequent Event Type [Axis] Subsequent Event Type [Domain] Subsequent Event Subsequent Event [Line Items] Rule 10b5-1 Arrangement Modified Flag Rule 10b5-1 Arrangement Modified Flag Rule 10b5-1 Arrangement Modified NonRule 10b5-1 Arrangement Modified Flag NonRule 10b5-1 Arrangement Modified Flag NonRule 10b5-1 Arrangement Modified EX-101.PRE 10 vuzi-20240630_pre.xml EX-101.PRE XML 12 R1.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Document and Entity Information - shares 6 Months Ended Jun. 30, 2024 Aug. 14, 2024 Document and Entity Information Â Â Document Type 10-Q Â Document Quarterly Report true Â Document Period End Date Jun. 30, 2024 Â Document Transition Report false Â Entity File Number 001-35955 Â Entity Registrant Name Vuzix Corp Â Entity Incorporation, State or Country Code DE Â Entity Tax Identification Number 04-3392453 Â Entity Address, Address Line One 25 Hendrix Road, SuiteÂ A Â Entity Address, City or Town West Henrietta Â Entity Address, State or Province NY Â Entity Address, Postal Zip Code 14586 Â City Area Code 585 Â Local Phone Number 359-5900 Â Title of 12(b) Security Common Stock, par value $0.001 Â Trading Symbol VUZI Â Security Exchange Name NASDAQ Â Entity Current Reporting Status Yes Â Entity Interactive Data Current Yes Â Entity Filer Category Non-accelerated Filer Â Entity Small Business true Â Entity Emerging Growth Company false Â Entity Shell Company false Â Entity Common Stock, Shares Outstanding Â 65,965,431 Entity Central Index Key 0001463972 Â Current Fiscal Year End Date --12-31 Â Document Fiscal Year Focus 2024 Â Document Fiscal Period Focus Q2 Â Amendment Flag false Â X - DefinitionBoolean flag that is true when the XBRL content amends previously-filed or accepted submission. + ReferencesNo definition available. + Details Name: dei_AmendmentFlag Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionArea code of city + ReferencesNo definition available. + Details Name: dei_CityAreaCode Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionCover page. + ReferencesNo definition available. + Details Name: dei_CoverAbstract Namespace Prefix: dei_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionEnd date of current fiscal year in the format --MM-DD. + ReferencesNo definition available. + Details Name: dei_CurrentFiscalYearEndDate Namespace Prefix: dei_ Data Type: xbrli:gMonthDayItemType Balance Type: na Period Type: duration X - DefinitionFiscal period values are FY, Q1, Q2, and Q3. 1st, 2nd and 3rd quarter 10-Q or 10-QT statements have value Q1, Q2, and Q3 respectively, with 10-K, 10-KT or other fiscal year statements having FY. + ReferencesNo definition available. + Details Name: dei_DocumentFiscalPeriodFocus Namespace Prefix: dei_ Data Type: dei:fiscalPeriodItemType Balance Type: na Period Type: duration X - DefinitionThis is focus fiscal year of the document report in YYYY format. For a 2006 annual report, which may also provide financial information from prior periods, fiscal 2006 should be given as the fiscal year focus. Example: 2006. + ReferencesNo definition available. + Details Name: dei_DocumentFiscalYearFocus Namespace Prefix: dei_ Data Type: xbrli:gYearItemType Balance Type: na Period Type: duration X - DefinitionFor the EDGAR submission types of Form 8-K: the date of the report, the date of the earliest event reported; for the EDGAR submission types of Form N-1A: the filing date; for all other submission types: the end of the reporting or transition period. The format of the date is YYYY-MM-DD. + ReferencesNo definition available. + Details Name: dei_DocumentPeriodEndDate Namespace Prefix: dei_ Data Type: xbrli:dateItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true only for a form used as an quarterly report. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 10-Q -Number 240 -Section 308 -Subsection a + Details Name: dei_DocumentQuarterlyReport Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true only for a form used as a transition report. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Forms 10-K, 10-Q, 20-F -Number 240 -Section 13 -Subsection a-1 + Details Name: dei_DocumentTransitionReport Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionThe type of document being provided (such as 10-K, 10-Q, 485BPOS, etc). The document type is limited to the same value as the supporting SEC submission type, or the word 'Other'. + ReferencesNo definition available. + Details Name: dei_DocumentType Namespace Prefix: dei_ Data Type: dei:submissionTypeItemType Balance Type: na Period Type: duration X - DefinitionAddress Line 1 such as Attn, Building Name, Street Name + ReferencesNo definition available. + Details Name: dei_EntityAddressAddressLine1 Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionName of the City or Town + ReferencesNo definition available. + Details Name: dei_EntityAddressCityOrTown Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionCode for the postal or zip code + ReferencesNo definition available. + Details Name: dei_EntityAddressPostalZipCode Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionName of the state or province. + ReferencesNo definition available. + Details Name: dei_EntityAddressStateOrProvince Namespace Prefix: dei_ Data Type: dei:stateOrProvinceItemType Balance Type: na Period Type: duration X - DefinitionA unique 10-digit SEC-issued value to identify entities that have filed disclosures with the SEC. It is commonly abbreviated as CIK. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityCentralIndexKey Namespace Prefix: dei_ Data Type: dei:centralIndexKeyItemType Balance Type: na Period Type: duration X - DefinitionIndicate number of shares or other units outstanding of each of registrant's classes of capital or common stock or other ownership interests, if and as stated on cover of related periodic report. Where multiple classes or units exist define each class/interest by adding class of stock items such as Common Class A [Member], Common Class B [Member] or Partnership Interest [Member] onto the Instrument [Domain] of the Entity Listings, Instrument. + ReferencesNo definition available. + Details Name: dei_EntityCommonStockSharesOutstanding Namespace Prefix: dei_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionIndicate 'Yes' or 'No' whether registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that registrants were required to file such reports), and (2) have been subject to such filing requirements for the past 90 days. This information should be based on the registrant's current or most recent filing containing the related disclosure. + ReferencesNo definition available. + Details Name: dei_EntityCurrentReportingStatus Namespace Prefix: dei_ Data Type: dei:yesNoItemType Balance Type: na Period Type: duration X - DefinitionIndicate if registrant meets the emerging growth company criteria. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityEmergingGrowthCompany Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionCommission file number. The field allows up to 17 characters. The prefix may contain 1-3 digits, the sequence number may contain 1-8 digits, the optional suffix may contain 1-4 characters, and the fields are separated with a hyphen. + ReferencesNo definition available. + Details Name: dei_EntityFileNumber Namespace Prefix: dei_ Data Type: dei:fileNumberItemType Balance Type: na Period Type: duration X - DefinitionIndicate whether the registrant is one of the following: Large Accelerated Filer, Accelerated Filer, Non-accelerated Filer. Definitions of these categories are stated in Rule 12b-2 of the Exchange Act. This information should be based on the registrant's current or most recent filing containing the related disclosure. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityFilerCategory Namespace Prefix: dei_ Data Type: dei:filerCategoryItemType Balance Type: na Period Type: duration X - DefinitionTwo-character EDGAR code representing the state or country of incorporation. + ReferencesNo definition available. + Details Name: dei_EntityIncorporationStateCountryCode Namespace Prefix: dei_ Data Type: dei:edgarStateCountryItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true when the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-T -Number 232 -Section 405 + Details Name: dei_EntityInteractiveDataCurrent Namespace Prefix: dei_ Data Type: dei:yesNoItemType Balance Type: na Period Type: duration X - DefinitionThe exact name of the entity filing the report as specified in its charter, which is required by forms filed with the SEC. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityRegistrantName Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true when the registrant is a shell company as defined in Rule 12b-2 of the Exchange Act. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityShellCompany Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionIndicates that the company is a Smaller Reporting Company (SRC). + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntitySmallBusiness Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionThe Tax Identification Number (TIN), also known as an Employer Identification Number (EIN), is a unique 9-digit value assigned by the IRS. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityTaxIdentificationNumber Namespace Prefix: dei_ Data Type: dei:employerIdItemType Balance Type: na Period Type: duration X - DefinitionLocal phone number for entity. + ReferencesNo definition available. + Details Name: dei_LocalPhoneNumber Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionTitle of a 12(b) registered security. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b + Details Name: dei_Security12bTitle Namespace Prefix: dei_ Data Type: dei:securityTitleItemType Balance Type: na Period Type: duration X - DefinitionName of the Exchange on which a security is registered. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection d1-1 + Details Name: dei_SecurityExchangeName Namespace Prefix: dei_ Data Type: dei:edgarExchangeCodeItemType Balance Type: na Period Type: duration X - DefinitionTrading symbol of an instrument as listed on an exchange. + ReferencesNo definition available. + Details Name: dei_TradingSymbol Namespace Prefix: dei_ Data Type: dei:tradingSymbolItemType Balance Type: na Period Type: duration XML 13 R2.htm IDEA: XBRL DOCUMENT v3.24.2.u1 CONSOLIDATED BALANCE SHEETS - USD ($) Jun. 30, 2024 Dec. 31, 2023 Current Assets Â Â Cash and Cash Equivalents $ 9,881,216 $ 26,555,592 Accounts Receivable, net of allowance for credit losses of $1,864,000 at June 30, 2024 and $1,574,000 at December 31, 2023. 3,024,196 3,827,686 Accrued Revenues in Excess of Billings 290,096 165,771 Utility Improvement Refund Â 208,271 Inventories, Net 10,238,163 9,000,430 Manufacturing Vendor Prepayments 329,866 403,801 Prepaid Expenses and Other Assets 897,537 1,338,860 Total Current Assets 24,661,074 41,500,411 Long-Term Assets Â Â Fixed Assets, Net 8,188,863 8,072,830 Operating Lease Right-of-Use Asset 747,003 301,185 Patents and Trademarks, Net 2,848,084 2,627,018 Technology Licenses, Net 861,578 26,851,001 Cost Method Investment in Atomistic Â 5,784,126 Other Assets, Net 927,778 1,011,111 Total Assets 38,234,380 86,147,681 Current Liabilities Â Â Accounts Payable 899,662 1,570,630 Unearned Revenue 49,831 18,839 Accrued Expenses 1,006,409 2,416,443 Licensing Fees Commitment Â 1,000,000 Income and Other Taxes Payable 124,363 46,727 Operating Lease Right-of-Use Liability 506,372 163,513 Total Current Liabilities 2,586,637 5,216,152 Long-Term Liabilities Â Â Operating Lease Right-of-Use Liability 240,631 137,672 Total Liabilities 2,827,268 5,353,824 Stockholders' Equity Â Â Common Stock - $0.001 Par Value, 100,000,000 shares authorized; 66,034,769 shares issued and 65,455,097 shares outstanding as of June 30, 2024 and 65,304,780 shares issued and 64,725,108 shares outstanding as of December 31, 2023. 66,034 65,304 Additional Paid-in Capital 382,462,147 377,189,847 Accumulated Deficit (344,644,568) (293,984,793) Treasury Stock, at cost, 579,672 shares as of June 30, 2024 and December 31, 2023. (2,476,501) (2,476,501) Total Stockholders' Equity 35,407,112 80,793,857 Total Liabilities and Stockholders' Equity $ 38,234,380 $ 86,147,681 X - DefinitionCarrying value as of the balance sheet date of liabilities incurred (and for which invoices have typically been received) and payable to vendors for goods and services received that are used in an entity's business. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481372/852-10-55-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 210 -SubTopic 10 -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02.19(a)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_AccountsPayableCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount, after allowance for credit loss, of right to consideration from customer for product sold and service rendered in normal course of business, classified as current. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481990/310-10-45-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481990/310-10-45-9 + Details Name: us-gaap_AccountsReceivableNetCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionCarrying value as of the balance sheet date of obligations incurred and payable, pertaining to costs that are

statutory in nature, are incurred on contractual obligations, or accumulate over time and for which invoices have not yet been received or will not be rendered. Examples include taxes, interest, rent and utilities. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 210 -SubTopic 10 -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02.20) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_AccruedLiabilitiesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of excess of issue price over par or stated value of stock and from other transaction involving stock or stockholder. Includes, but is not limited to, additional paid-in capital (APIC) for common and preferred stock. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(18)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479617/946-210-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(1)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_AdditionalPaidInCapital Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionSum of the carrying amounts as of the balance sheet date of all assets that are recognized. Assets are probable future economic benefits obtained or controlled by an entity as a result of past transactions or events. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481203/810-10-50-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481231/810-10-45-25Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481687/323-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482907/825-10-50-28Reference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481372/852-10-55-10Reference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480167/946-830-55-12Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(12)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479440/944-210-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-22Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(8)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479617/946-210-S99-1Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(18)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 13: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 14: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481404/852-10-50-7Reference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-30Reference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-32Reference 26: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(11)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479853/942-210-S99-1 + Details Name: us-gaap_Assets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionSum of the carrying amounts as of the balance sheet date of all assets that are expected to be realized in cash, sold, or consumed within one year (or the normal operating cycle, if longer). Assets are probable future economic benefits obtained or controlled by an entity as a result of past transactions or events. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481203/810-10-50-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481231/810-10-45-25Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481687/323-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482907/825-10-50-28Reference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481372/852-10-55-10Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483467/210-10-45-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(9)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 10: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 20: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481404/852-10-50-7 + Details Name: us-gaap_AssetsCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_AssetsCurrentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_AssetsNoncurrentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(1)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483467/210-10-45-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-4 + Details Name: us-gaap_CashAndCashEquivalentsAtCarryingValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAggregate par or stated value of issued nonredeemable common stock (or common stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable common shares, par value and other disclosure concepts are in another section within stockholders' equity. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(22)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479440/944-210-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_CommonStockValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of deferred income excluding obligation to transfer product and service to customer for which consideration has been received or is receivable, classified as current. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Name Accounting Standards Codification -Section 25 -Paragraph 2 -SubTopic 10 -Topic 470 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481174/470-10-25-2 + Details Name: us-gaap_DeferredIncomeCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of investment in equity security without readily determinable fair value. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 321 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479536/321-10-50-3 + Details Name: us-gaap_EquitySecuritiesWithoutReadilyDeterminableFairValueAmount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionSum of the carrying amounts of all intangible assets, excluding goodwill, as of the balance sheet date, net of accumulated amortization and impairment charges. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 350 -SubTopic 30 -Section 50 -Paragraph 2 -Subparagraph ((a)(1),(b)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482665/350-30-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 350 -SubTopic 30 -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482686/350-30-45-1 + Details Name: us-gaap_IntangibleAssetsNetExcludingGoodwill Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount after valuation and LIFO reserves of inventory expected to be sold, or consumed within one year or operating cycle, if longer. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483467/210-10-45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_InventoryNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionSum of the carrying amounts as of the balance sheet date of all liabilities that are recognized. Liabilities are probable future sacrifices of economic benefits arising from present obligations of an entity to transfer assets or provide services to other entities in the future. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481203/810-10-50-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481231/810-10-45-25Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481203/810-10-50-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB

-URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481687/323-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482907/825-10-50-28Reference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480167/946-830-55-12Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(14)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479617/946-210-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 10: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 19: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481404/852-10-50-7Reference 20: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481404/852-10-50-7Reference 21: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-30Reference 22: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 210 -SubTopic 10 -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02.19-26) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_Liabilities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of liabilities and equity items, including the portion of equity attributable to noncontrolling interests, if any. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(25)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479440/944-210-S99-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481687/323-10-50-3Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482907/825-10-50-28Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(23)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479853/942-210-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(32)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_LiabilitiesAndStockholdersEquity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionTotal obligations incurred as part of normal operations that are expected to be paid during the following twelve months or within one business cycle, if longer. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481203/810-10-50-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481231/810-10-45-25Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481203/810-10-50-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481687/323-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482907/825-10-50-28Reference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481372/852-10-55-10Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483467/210-10-45-5Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 10: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 19: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481404/852-10-50-7Reference 20: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481404/852-10-50-7Reference 21: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 210 -SubTopic 10 -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02.21) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_LiabilitiesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_LiabilitiesCurrentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_LiabilitiesNoncurrentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease, classified as current. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseLiabilityCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease, classified as noncurrent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseLiabilityNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's right to use underlying asset under operating lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseRightOfUseAsset Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of noncurrent assets classified as other. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(17)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_OtherAssetsNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of asset related to consideration paid in advance for costs that provide economic benefits in future periods, and amount of other assets that are expected to be realized or consumed within one year or the normal operating cycle, if longer. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(9)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_PrepaidExpenseAndOtherAssetsCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482099/360-10-50-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481372/852-10-55-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479440/944-210-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 360 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480842/942-360-50-1 + Details Name: us-gaap_PropertyPlantAndEquipmentNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of accumulated undistributed earnings (deficit). + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(2)(i) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480016/944-40-65-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480016/944-40-65-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480990/946-20-50-11Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(23)(a)(4)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479440/944-210-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(17)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479617/946-210-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480008/505-10-S99-1Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(3)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_RetainedEarningsAccumulatedDeficit Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480167/946-830-55-12Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(19)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479617/946-210-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479617/946-210-S99-2Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(6)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -

Publisher FASB -URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1Reference 9: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481687/323-10-50-3Reference 10: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482907/825-10-50-28Reference 11: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1Reference 12: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(31)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1Reference 13: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1Reference 14: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 4.E) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480418/310-10-S99-2 + Details Name: us-gaap_StockholdersEquity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_StockholdersEquityAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionCarrying value as of the balance sheet date of obligations incurred and payable for statutory income, sales, use, payroll, excise, real, property and other taxes. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 210 -SubTopic 10 -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02.19,20) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_TaxesPayableCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount allocated to previously issued common shares repurchased by the issuing entity and held in treasury. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481520/505-30-50-4Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481549/505-30-45-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 210 -SubTopic 10 -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02.30) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_TreasuryStockCommonValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of accrued revenues in excess of billings. + ReferencesNo definition available. + Details Name: vuzi_AccruedRevenuesInExcessOfBillings Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of finite lived license agreements, noncurrent. + ReferencesNo definition available. + Details Name: vuzi_FiniteLivedLicenseAgreementsNoncurrent Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionCarrying amount as of the balance sheet date of licensing fees commitment classified as current. + ReferencesNo definition available. + Details Name: vuzi_LicensingFeesCommitmentCurrent Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of consideration paid in advance for manufacturing vendor that provide economic benefits within a future period of one year or the normal operating cycle, if longer. + ReferencesNo definition available. + Details Name: vuzi_PrepaidManufacturingVendorPayments Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionCarrying amount as of the balance sheet date of amounts receivable under utility improvement refund. + ReferencesNo definition available. + Details Name: vuzi_UtilityImprovementRefund Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant XML 14 R3.htm IDEA: XBRL DOCUMENT v3.24.2.u1 CONSOLIDATED BALANCE SHEETS (Parenthetical) - USD ($) Jun. 30, 2024 Dec. 31, 2023 CONSOLIDATED BALANCE SHEETS Â Â Allowance for Doubtful Accounts Receivable $ 1,864,000 $ 1,574,000 Common Stock, Par Value $ 0.001 $ 0.001 Common Stock, Shares Authorized 100,000,000 100,000,000 Common Stock, Shares Issued 66,034,769 65,304,780 Common Stock, Shares Outstanding 65,455,097 64,725,108 Common shares held in treasury 579,672 579,672 X - DefinitionAmount of allowance for credit loss on accounts receivable, classified as current. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(4)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org//1943274/2147479344/326-20-45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481962/310-10-50-4 + Details Name: us-gaap_AllowanceForDoubtfulAccountsReceivableCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionFace amount or stated value per share of common stock. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_CommonStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionThe maximum number of common shares permitted to be issued by an entity's charter and bylaws. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479617/946-210-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_CommonStockSharesAuthorized Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionTotal number of common shares of an entity that have been sold or granted to shareholders (includes common shares that were issued, repurchased and remain in the treasury). These shares represent capital invested by the firm's shareholders and owners, and may be all or only a portion of the number of shares authorized. Shares issued include shares outstanding and shares held in the treasury. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_CommonStockSharesIssued Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionNumber of shares of common stock outstanding. Common stock represent the ownership interest in a corporation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481112/505-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479617/946-210-S99-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479617/946-210-S99-1Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_CommonStockSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_StatementOfFinancialPositionAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionNumber of previously issued common shares repurchased by the issuing entity and held in treasury. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481549/505-30-45-1 + Details Name: us-gaap_TreasuryStockCommonShares Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant XML 15 R4.htm IDEA: XBRL DOCUMENT v3.24.2.u1 CONSOLIDATED STATEMENTS OF CHANGES IN STOCKHOLDERS' EQUITY - USD ($) Common Stock Additional Paid-In Capital Accumulated Deficit Treasury Stock Total Balance at Dec. 31, 2022 $ 63,783 $ 362,507,715 $ (243,835,716) $ (2,005,744) $ 116,730,038 Balance (in shares) at Dec. 31, 2022 63,783,779 Â Â (464,672) Â Stock-Based Compensation Expense $ 97 6,550,382 Â Â 6,550,479 Stock-Based Compensation Expense (in shares) 96,525 Â Â Â Â Stock Option Exercises $ 19 14,528 Â Â 14,547 Stock Option Exercises (in shares) 18,585 Â Â Â Â Purchases of Treasury Stock Â Â Â $ (470,757) $ (470,757) Purchases of treasury stock (in shares) Â Â Â (115,000) 115,000 Net Loss Â Â (19,285,503) Â $ (19,285,503) Balance at Jun. 30, 2023 $ 63,899 369,072,625 (263,121,219) $ (2,476,501) 103,538,804 Balance (in shares) at Jun. 30, 2023 63,898,889 Â Â (579,672) Â Balance at Dec. 31, 2022 $ 63,783 362,507,715 (243,835,716) $ (2,005,744) 116,730,038 Balance (in shares) at Dec. 31, 2022 63,783,779 Â Â (464,672) Â Net Loss Â Â Â Â (50,149,077) Balance at Dec. 31, 2023 $ 65,304 377,189,847 (293,984,793) $ (2,476,501) 80,793,857 Balance (in shares) at Dec. 31, 2023 65,304,780 Â Â (579,672) Â Balance at Mar. 31, 2023 $ 63,787 365,868,487 (254,076,299) $ (2,476,501) 109,379,474 Balance (in shares) at Mar. 31, 2023 63,787,858 Â Â (579,672) Â Stock-Based Compensation Expense $ 97 3,189,606 Â Â 3,189,703 Stock-Based Compensation Expense (in shares) 96,525 Â Â Â Â Stock Option Exercises $ 15 14,532 Â Â 14,547 Stock Option Exercises (in shares) 14,506 Â Â Â Â Net Loss Â Â (9,044,920) Â (9,044,920) Balance at Jun. 30, 2023 $ 63,899 369,072,625 (263,121,219) $ (2,476,501) 103,538,804 Balance (in shares) at Jun. 30, 2023 63,898,889 Â Â (579,672) Â Balance at Dec. 31, 2023 $ 65,304 377,189,847 (293,984,793) $ (2,476,501) 80,793,857 Balance (in shares) at Dec. 31, 2023 65,304,780 Â Â (579,672) Â Stock-Based Compensation Expense $ 729 5,272,299 Â Â 5,273,028 Stock-Based Compensation Expense (in shares) 729,005 Â Â Â Â Stock Option Exercises $ 1 1 Â Â 2 Stock Option Exercises (in shares) 984 Â Â Â Â Net Loss Â Â (50,659,775) Â (50,659,775) Balance at Jun. 30, 2024 $ 66,034 382,462,147 (344,644,568) $ (2,476,501) 35,407,112 Balance (in shares) at Jun. 30, 2024 66,034,769 Â Â (579,672) Â Balance at Mar. 31, 2024 $ 65,304 379,582,792 (304,032,375) $ (2,476,501) 73,139,220 Balance (in shares) at Mar. 31, 2024 65,304,780 Â Â (579,672) Â Stock-Based Compensation Expense $ 729 2,879,354 Â Â 2,880,083 Stock-Based Compensation Expense (in shares) 729,005 Â Â Â Â Stock Option Exercises $ 1 1 Â Â 2 Stock Option Exercises (in shares) 984 Â Â Â Â Net Loss Â Â (40,612,193) Â (40,612,193) Balance at Jun. 30, 2024 $ 66,034 $ 382,462,147 $ (344,644,568) $ (2,476,501) $ 35,407,112 Balance (in shares) at Jun. 30, 2024 66,034,769 Â Â (579,672) Â X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481687/323-10-50-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482907/825-10-50-28Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482765/220-10-50-6Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480175/815-40-65-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-8Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-9Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-11Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-11Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-4Reference 13: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480167/946-830-55-10Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483581/946-220-45-7Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483586/944-220-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-22Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483575/946-220-S99-1Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 20: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-30Reference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section

50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-32Reference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482689/260-10-45-60BReference 32: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-31Reference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-32Reference 34: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483499/205-20-50-7Reference 35: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-28Reference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482790/220-10-45-1AReference 37: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482790/220-10-45-1BReference 38: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2Reference 39: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483589/942-220-S99-1 + Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionNumber of shares issued which are neither cancelled nor held in the treasury. + ReferencesNo definition available. + Details Name: us-gaap_SharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionNumber, before forfeiture, of shares issued under share-based payment arrangement. Excludes employee stock ownership plan (ESOP). + ReferencesNo definition available. + Details Name: us-gaap_StockIssuedDuringPeriodSharesShareBasedCompensationGross Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of share options (or share units) exercised during the current period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481112/505-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(02) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480008/505-10-S99-1Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodSharesStockOptionsExercised Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionValue, before forfeiture, of shares issued under share-based payment arrangement. Excludes employee stock ownership plan (ESOP). + ReferencesNo definition available. + Details Name: us-gaap_StockIssuedDuringPeriodValueShareBasedCompensationGross Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionValue of stock issued as a result of the exercise of stock options. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480008/505-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 210 -SubTopic 10 -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02.29-31) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodValueStockOptionsExercised Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480167/946-830-55-12Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(19)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479617/946-210-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479617/946-210-S99-2Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(6)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1Reference 9: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481687/323-10-50-3Reference 10: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482907/825-10-50-28Reference 11: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1Reference 12: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(31)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1Reference 13: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1Reference 14: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 4.E) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480418/310-10-S99-2 + Details Name: us-gaap_StockholdersEquity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionNumber of shares that have been repurchased during the period and are being held in treasury. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480008/505-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_TreasuryStockSharesAcquired Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionValue of Treasury stock shares acquired. + ReferencesNo definition available. + Details Name: vuzi_TreasuryStockSharesAcquiredValue Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration XML 16 R5.htm IDEA: XBRL DOCUMENT v3.24.2.u1 CONSOLIDATED STATEMENTS OF OPERATIONS - USD ($) 3 Months Ended 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Sales: Â Â Â Â Total Sales $ 1,092,571 $ 4,690,835 $ 3,096,438 $ 8,882,196 Cost of Sales: Â Â Â Â Cost of Sales - Depreciation and Amortization 182,049 257,939 363,615 490,855 Total Cost of Sales 1,425,716 3,718,449 3,482,836 7,033,804 Gross Profit (Loss) (333,145) 972,386 (386,398) 1,848,392 Operating Expenses: Â Â Â Â Research and Development 2,358,726 2,836,552 5,073,115 5,906,349 Selling and Marketing 2,238,221 2,509,922 4,479,165 5,049,581 General and Administrative 4,492,168 4,260,322 8,594,322 9,392,146 Depreciation and Amortization 1,188,339 973,222 2,158,716 1,937,487 Loss on Fixed Asset Disposal Â Â 11,277 Â Impairment on Intangible Asset and Equity Investment 30,119,679 Â 30,119,679 Â Impairment of Patents and Trademarks Â Â Â 17,666 Total Operating Expenses 40,397,133 10,580,018 50,436,274 22,303,229 Loss From Operations (40,730,278) (9,607,632) (50,822,672) (20,454,837) Other Income (Expense): Â Â Â Â Investment Income 205,824 628,923 358,423 1,324,706 Income and Other Taxes (17,559) (35,420) (17,841) (123,215) Foreign Exchange Loss (70,180) (30,791) (177,685) (32,157) Total Other Income, Net 118,085 562,712 162,897 1,169,334 Loss Before Provision for Income Taxes (40,612,193) (9,044,920) (50,659,775) (19,285,503) Net Loss $ (40,612,193) $ (9,044,920) $ (50,659,775) $ (19,285,503) Basic Loss per Common Share $ (0.62) $ (0.14) $ (0.77) $ (0.31) Diluted Loss per Common Share $ (0.62) $ (0.14) $ (0.77) $ (0.31) Weighted-average Shares Outstanding - Basic 65,814,475 63,230,859 65,559,627 63,223,768 Weighted-average Shares Outstanding - Diluted 65,814,475 63,230,859 65,559,627 63,223,768 Sales of Products Â Â Â Â Sales: Â Â Â Â Total Sales $ 601,263 $ 4,425,162 $ 2,430,336 $ 8,616,523 Cost of Sales: Â Â Â Â Cost of Sales 1,067,452 3,303,979 2,875,044 6,386,418 Sales of Engineering Services Â Â Â Â Sales: Â Â Â Â Total Sales 491,308 265,673 666,102 265,673 Cost of Sales: Â Â Â Â Cost of Sales $ 176,215 $ 156,531 $ 244,177 $ 156,531 X - DefinitionCost of product sold and service rendered, excluding depreciation, depletion, and amortization. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(2)(a)) -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(2)(d)) -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_CostOfGoodsAndServiceExcludingDepreciationDepletionAndAmortization Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of expense for allocation of cost of tangible and intangible assets over their useful lives directly used in production of good and rendering of service. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(b)(2)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_CostOfGoodsAndServicesSoldDepreciationAndAmortization Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe aggregate cost of goods produced and sold and services rendered during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481687/323-10-50-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482907/825-10-50-28Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 14: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03.2) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_CostOfRevenue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_CostOfRevenueAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe current period expense charged against earnings on long-lived, physical assets not used in production, and which are not intended for resale, to allocate or recognize the cost of such assets over their useful lives; or to record the reduction in book value of an intangible asset over the benefit period of such asset; or to reflect consumption during the period of an asset that is not used in production. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 360 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482099/360-10-50-1 + Details Name: us-gaap_DepreciationAndAmortization Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe amount of net income (loss) for the period per each share of common stock or unit outstanding during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482635/260-10-55-15Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (e)(4) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480175/815-40-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480175/815-40-65-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-11Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-11Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI

https://asc.fasb.org//1943274/2147483443/250-10-50-7Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482689/260-10-45-2Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482689/260-10-45-60BReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-4Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482662/260-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482689/260-10-45-10Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483589/942-220-S99-1Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483586/944-220-S99-1Reference 16: http://www.xbrl.org/2003/role/exampleRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 52 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482635/260-10-55-52Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482689/260-10-45-7 + Details Name: us-gaap_EarningsPerShareBasic Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionThe amount of net income (loss) for the period available to each share of common stock or common unit outstanding during the reporting period and to each share or unit that would have been outstanding assuming the issuance of common shares or units for all dilutive potential common shares or units outstanding during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482635/260-10-55-15Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (e)(4) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480175/815-40-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480175/815-40-65-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-11Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-11Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-7Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482689/260-10-45-2Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482689/260-10-45-60BReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-4Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482662/260-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483589/942-220-S99-1Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483586/944-220-S99-1Reference 15: http://www.xbrl.org/2003/role/exampleRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 52 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482635/260-10-55-52Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482689/260-10-45-7 + Details Name: us-gaap_EarningsPerShareDiluted Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionAmount, before tax, of realized and unrealized gain (loss) from foreign currency transaction. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(7)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483575/946-220-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 20 -Name Accounting Standards Codification -Section 35 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482014/830-20-35-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481956/830-20-45-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481926/830-20-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 17 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481839/830-10-45-17 + Details Name: us-gaap_ForeignCurrencyTransactionGainLossBeforeTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of gain (loss) on sale or disposal of property, plant and equipment assets, including oil and gas property and timber property. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-28 + Details Name: us-gaap_GainLossOnSaleOfPropertyPlantEquipment Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe aggregate total of expenses of managing and administering the affairs of an entity, including affiliates of the reporting entity, which are not directly or indirectly associated with the manufacture, sale or creation of a product or product line. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(2)(a)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483575/946-220-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03.4) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_GeneralAndAdministrativeExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAggregate revenue less cost of goods and services sold or operating expenses directly attributable to the revenue generation activity. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481687/323-10-50-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482907/825-10-50-28Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-22Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B 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Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-32Reference 17: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-31Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-32Reference 19: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03.1,2) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_GrossProfit Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe amount of impairment loss recognized in the period resulting from the write-down of the carrying amount of a finite-lived intangible asset to fair value. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482665/350-30-50-3 + Details Name: us-gaap_ImpairmentOfIntangibleAssetsFinitelived Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of income (loss) from continuing operations, including income (loss) from equity method investments, before deduction of income tax expense (benefit), and income (loss) attributable to noncontrolling interest. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(11)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483586/944-220-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-22Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-30Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI 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http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(10)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2Reference 10: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(15)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483589/942-220-S99-1 + Details Name: us-gaap_IncomeLossFromContinuingOperationsBeforeIncomeTaxesExtraordinaryItemsNoncontrollingInterest Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount before accretion (amortization) of purchase discount (premium) of interest income on nonoperating securities. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-22Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03.7(b)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_InvestmentIncomeInterest Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting 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Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-4Reference 13: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480167/946-830-55-10Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483581/946-220-45-7Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483586/944-220-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI 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http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-31Reference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-32Reference 34: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483499/205-20-50-7Reference 35: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-28Reference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards 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Period Type: duration X - DefinitionThe aggregate amount of income or expense from ancillary business-related activities (that is to say, excluding major activities considered part of the normal operations of the business). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03.7) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_NonoperatingIncomeExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NonoperatingIncomeExpenseAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionGenerally recurring costs associated with normal operations except for the portion of these expenses which can be clearly related to production and included in cost of sales or services. Includes selling, general and administrative expense. + ReferencesNo definition available. + Details Name: us-gaap_OperatingExpenses Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_OperatingExpensesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe net result for the period of deducting operating expenses from operating revenues. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-30Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-32Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-31Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-32 + Details Name: us-gaap_OperatingIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe aggregate costs incurred (1) in a planned search or critical investigation aimed at discovery of new knowledge with the hope that such knowledge will be useful in developing a new product or service, a new process or technique, or in bringing about a significant improvement to an existing product or process; or (2) to translate research findings or other knowledge into a plan or design for a new product or process or for a significant improvement to an existing product or process whether intended for sale or the entity's use, during the reporting period charged to research and development projects, including the costs of developing computer software up to the point in time of achieving technological feasibility, and costs allocated in accounting for a business combination to in-process projects deemed to have no alternative future use. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 730 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482916/730-10-50-1Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 912 -SubTopic 730 -Name Accounting Standards Codification -Section 25 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482517/912-730-25-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 985 -SubTopic 20 -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481283/985-20-50-1 + Details Name: us-gaap_ResearchAndDevelopmentExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of revenue recognized from goods sold, services rendered, insurance premiums, or other activities that constitute an earning process. Includes, but is not limited to, investment and interest income before deduction of interest expense when recognized as a component of revenue, and sales and trading gain (loss). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481687/323-10-50-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482907/825-10-50-28Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(1)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-30Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-42Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-22Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-32Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-40Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-22Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-32Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-41Reference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 235 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-05(b)(2)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479557/942-235-S99-1 + Details Name: us-gaap_Revenues Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_RevenuesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe aggregate total amount of expenses directly related to the marketing or selling of products or services. + ReferencesNo definition available. + Details Name: us-gaap_SellingAndMarketingExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe average number of shares or units issued and outstanding that are used in calculating diluted EPS or earnings per unit (EPU), determined based on the timing of issuance of shares or units in the period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 16 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482689/260-10-45-16 + Details Name: us-gaap_WeightedAverageNumberOfDilutedSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of [basic] shares or units, after adjustment for contingently issuable shares or units and other shares or units not deemed outstanding, determined by relating the portion of time within a reporting period that common shares or units have been outstanding to the total time in that period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482689/260-10-45-10 + Details Name: us-gaap_WeightedAverageNumberOfSharesOutstandingBasic Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionAmount of impairment loss recognized in the period resulting from the write-down of the carrying amount of a finite-lived intangible asset to fair value and impairment loss on investment in equity security without readily determinable fair value. + ReferencesNo

definition available. + Details Name: vuzi_ImpairmentOnIntangibleAssetsAndEquityInvestment Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount income and other taxes expenses (benefit). + ReferencesNo definition available. + Details Name: vuzi_IncomeAndOtherTaxesExpensesBenefit Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - Details Name: srt_ProductOrServiceAxis=us-gaap_ProductMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=us-gaap_EnergyServiceMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 17 R6.htm IDEA: XBRL DOCUMENT v3.24.2.u1 CONSOLIDATED STATEMENTS OF CASH FLOWS - USD ($) 3 Months Ended 6 Months Ended 12 Months Ended Jun. 30, 2024 Jun. 30, 2024 Jun. 30, 2023 Dec. 31, 2023 Dec. 31, 2022 Cash Flows From (Used In) Operating Activities Â Â Â Â Â Net Loss Â $ (50,659,775) $ (19,285,503) Â Â Non-Cash Adjustments Â Â Â Â Â Depreciation and Amortization Â 2,622,866 2,428,342 Â Â Stock-Based Compensation Â 5,273,028 6,500,261 Â Â Impairment of Patents and Trademarks Â Â 17,666 Â Â Loss on Fixed Asset Disposal Â 11,277 Â Â Â Reserve on Trade Accounts Receivable Â 290,000 Â Â Â Change in Inventory Reserve for Obsolescence Â Â 480,258 Â Â Impairment on Intangible Asset and Equity Investment $ 30,119,679 30,119,679 Â Â Â (Increase) Decrease in Operating Assets Â Â Â Â Â Accounts Receivable Â 513,490 (2,986,637) Â Â Accrued Revenues in Excess of Billings Â (124,325) (40,633) Â Â Utility Improvement Refund/Employee Retention Credit Receivable Â 208,271 466,705 Â Â Inventories Â (1,237,733) (82,454) Â Â Manufacturing Vendor Prepayments Â 73,936 645,272 Â Â Prepaid Expenses and Other Assets Â 441,323 1,692 Â Â Increase (Decrease) in Operating Liabilities Â Â Â Â Â Accounts Payable Â (670,968) 408,743 Â Â Accrued Expenses Â (1,410,034) (641,362) Â Â Unearned Revenue Â 30,992 77,980 Â Â Income and Other Taxes Payable Â 77,638 (76,037) Â Â Net Cash Flows Used in Operating Activities Â (14,440,335) (12,085,707) $ (26,277,824) $ (24,521,082) Cash Flows Used in Investing Activities Â Â Â Â Â Purchases of Fixed Assets Â (929,635) (2,774,513) Â Â Investments in Patents and Trademarks Â (304,406) (340,507) Â Â Investments in Licenses Â (1,000,000) (8,000,000) Â Â Investments in Software Development Â Â (125,000) Â Â Investments in Other Assets Â Â (200,000) Â Â Net Cash Flows Used in Investing Activities Â (2,234,041) (11,440,020) (19,280,966) (21,170,816) Cash Flows Provided by (Used in) Financing Activities Â Â Â Â Â Proceeds from Exercise of Stock Options Â Â 14,546 Â Â Purchases of Treasury Stock Â Â (470,757) Â Â Net Cash Flows Provided by (Used in) Financing Activities Â Â (456,211) Â Â Net Increase (Decrease) in Cash and Cash Equivalents Â (16,674,376) (23,981,938) Â Â Cash and Cash Equivalents - Beginning of Period Â 26,555,592 72,563,943 72,563,943 Â Cash and Cash Equivalents - End of Period $ 9,881,216 9,881,216 48,582,005 $ 26,555,592 $ 72,563,943 Supplemental Disclosures Â Â Â Â Â Depreciation and Amortization included in Research and Development Expense Â $ 100,535 Â Â Â Stock-Based Compensation Expense - Expensed less Previously Issued Â Â $ (50,218) Â Â X - ReferencesNo definition available. + Details Name: us-gaap_AdjustmentsToReconcileNetIncomeLossToCashProvidedByUsedInOperatingActivitiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage. Excludes amount for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482913/230-10-50-8Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-4 + Details Name: us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of increase (decrease) in cash, cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; including effect from exchange rate change. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-24Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 1 -SubTopic 230 -Topic 830 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481877/830-230-45-1 + Details Name: us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of gain (loss) on sale or disposal of property, plant and equipment assets, including oil and gas property and timber property. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-28 + Details Name: us-gaap_GainLossOnSaleOfPropertyPlantEquipment Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe amount of impairment loss recognized in the period resulting from the write-down of the carrying amount of a finite-lived intangible asset to fair value. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482665/350-30-50-3 + Details Name: us-gaap_ImpairmentOfIntangibleAssetsFinitelived Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in the aggregate amount of liabilities incurred (and for which invoices have typically been received) and payable to vendors for goods and services received that are used in an entity's business. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInAccountsPayable Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in amount due within one year (or one business cycle) from customers for the credit sale of goods and services. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInAccountsReceivable Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe increase (decrease) during the period in the amount due for taxes based on the reporting entity's earnings or attributable to the entity's income earning process (business presence) within a given jurisdiction. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInAccruedIncomeTaxesPayable Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in the aggregate amount of expenses incurred but not yet paid. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInAccruedLiabilities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in the aggregate value of all inventory held by the reporting entity, associated with underlying transactions that are classified as operating activities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInInventories Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_IncreaseDecreaseInOperatingAssetsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_IncreaseDecreaseInOperatingLiabilitiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of increase (decrease) in prepaid expenses, and assets classified as other. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInPrepaidDeferredExpenseAndOtherAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of cash inflow (outflow) from financing activities, including discontinued operations. Financing activity cash flows include obtaining resources from owners and providing them with a return on, and a return of, their investment; borrowing money and repaying amounts borrowed, or settling the obligation; and obtaining and paying for other resources obtained from creditors on long-term credit. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-24 + Details Name: us-gaap_NetCashProvidedByUsedInFinancingActivities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetCashProvidedByUsedInFinancingActivitiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of cash inflow (outflow) from investing activities, including discontinued operations. Investing activity cash flows include making and collecting loans and acquiring and disposing of debt or equity instruments and property, plant, and equipment and other productive assets. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-24 + Details Name: us-gaap_NetCashProvidedByUsedInInvestingActivities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetCashProvidedByUsedInInvestingActivitiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of cash inflow (outflow) from operating activities, including discontinued operations. Operating activity cash flows include transactions, adjustments, and changes in value not defined as investing or financing activities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-25 + Details Name: us-gaap_NetCashProvidedByUsedInOperatingActivities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetCashProvidedByUsedInOperatingActivitiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe cash outflow to reacquire common stock during the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 15 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-15 + Details Name: us-gaap_PaymentsForRepurchaseOfCommonStock Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash outflow to acquire asset without physical form usually arising from contractual or other legal rights, excluding goodwill. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 13 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-13 + Details Name: us-gaap_PaymentsToAcquireIntangibleAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of cash outflow for the purchase of or improvements to tangible or intangible assets, used to produce goods or deliver services, classified as other. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 13 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-13 + Details Name: us-gaap_PaymentsToAcquireOtherProductiveAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash outflow associated with the acquisition of long-lived, physical assets that are used in the normal conduct of business to produce goods and services and not intended for resale; includes cash outflows to pay for construction of self-constructed assets. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 13 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-13 + Details Name: us-gaap_PaymentsToAcquirePropertyPlantAndEquipment Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash outflow associated with the development or modification of software programs or applications for internal use (that is, not to be sold, leased or otherwise marketed to others) that qualify for capitalization. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 13 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-13 + Details Name: us-gaap_PaymentsToDevelopSoftware Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of cash inflow from exercise of option under share-based payment arrangement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 14 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-14Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2A -Subparagraph (a) -SubTopic 10 -Topic 718 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2A + Details Name: us-gaap_ProceedsFromStockOptionsExercised Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe consolidated profit or loss for the period, net of income taxes, including the portion attributable to the noncontrolling interest. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481687/323-10-50-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482907/825-10-50-28Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480175/815-40-65-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-8Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-9Reference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480167/946-830-55-11Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 205 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480767/946-205-45-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483581/946-220-45-7Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(16)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483586/944-220-S99-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI

https://asc.fasb.org//1943274/2147482810/280-10-50-22Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483575/946-220-S99-1Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481231/810-10-45-19Reference 16: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482765/220-10-50-6Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 18: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-30Reference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-32Reference 29: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-31Reference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-32Reference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 235 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-05(b)(2)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479557/942-235-S99-1Reference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483499/205-20-50-7Reference 33: http://www.xbrl.org/2003/role/exampleRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 4J -Publisher FASB -URI https://asc.fasb.org//1943274/2147481175/810-10-55-4JReference 34: http://www.xbrl.org/2003/role/exampleRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 4K -Publisher FASB -URI https://asc.fasb.org//1943274/2147481175/810-10-55-4KReference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482790/220-10-45-1BReference 37: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-2Reference 38: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481203/810-10-50-1AReference 39: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (c)(1) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481203/810-10-50-1A + Details Name: us-gaap_ProfitLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of expense (reversal of expense) for expected credit loss on accounts receivable. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479319/326-20-50-13Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_ProvisionForDoubtfulAccounts Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of noncash expense for share-based payment arrangement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-28 + Details Name: us-gaap_ShareBasedCompensation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_SupplementalCashFlowInformationAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionIt represent the amortized value of common stock expenses in accrued expenses incurred for the particular period. + ReferencesNo definition available. + Details Name: vuzi_AmortizedCommonStockExpenseInAccruedExpenses Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe current period expense including adjustments charged against earnings on long-lived, physical assets not used in production, and which are not intended for resale, to allocate or recognize the cost of such assets over their useful lives; or to record the reduction in book value of an intangible asset over the benefit period of such asset; or to reflect consumption during the period of an asset that is not used in production. + ReferencesNo definition available. + Details Name: vuzi_DepreciationAndAmortizationAndAdjustments Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe amount of depreciation and amortization during the period, included in research and development expense. + ReferencesNo definition available. + Details Name: vuzi_DepreciationAndAmortizationIncludedInResearchAndDevelopmentExpense Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of impairment loss recognized in the period resulting from the write-down of the carrying amount of a finite-lived intangible asset to fair value and impairment loss on investment in equity security without readily determinable fair value. + ReferencesNo definition available. + Details Name: vuzi_ImpairmentOnIntangibleAssetsAndEquityInvestment Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in amount accrued revenue in excess of billings. + ReferencesNo definition available. + Details Name: vuzi_IncreaseDecreaseAccruedRevenueInExcessOfBillings Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of increase (decrease) in deferred income, for which consideration has been received or is receivable. + ReferencesNo definition available. + Details Name: vuzi_IncreaseDecreaseInDeferredIncome Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of increase (decrease) of consideration paid in advance for manufacturing vendors payments that provide economic benefits in future periods. + ReferencesNo definition available. + Details Name: vuzi_IncreaseDecreaseInManufacturingVendorPrepayments Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe amount of increase (decrease) in during the reporting period in the utility improvement refund and employee retention credit receivable. + ReferencesNo definition available. + Details Name: vuzi_IncreaseDecreaseInUtilityImprovementRefundAndEmployeeRetentionCreditReceivable Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionReductions in inventory due to reserve for obsolescence. + ReferencesNo definition available. + Details Name: vuzi_InventoryReserveForObsolescence Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe Amount represents payment for investments in Licenses. + ReferencesNo definition available. + Details Name: vuzi_InvestmentsInLicenses Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration XML 18 R7.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Basis of Presentation 6 Months Ended Jun. 30, 2024 Basis of Presentation Â Basis of Presentation NoteÂ 1Â â€“ Basis of PresentationThe accompanying unaudited consolidated financial statements of Vuzix Corporation (â€œthe Companyâ€ or â€œVuzixâ€) have been prepared in accordance with generally accepted accounting principles in the United States of America (â€œGAAPâ€) for interim financial information and with the instructions to FormÂ 10-Q and Regulation S-X of the Securities and Exchange Commission (the â€œSECâ€). Accordingly, the unaudited consolidated financial statements do not include all information and footnotes required by GAAP for complete financial statements. In the opinion of management, all adjustments considered necessary for a fair presentation have been included. The results of the Companyâ€™s operations for the three and six months ended June 30, 2024, are not necessarily indicative of the results of the Companyâ€™s operations for the full fiscalÂ year or any other period.The accompanying interim consolidated financial statements should be read in conjunction with the audited consolidated financial statements and the notes thereto of the Company as of and for the year ended DecemberÂ 31, 2023, as reported in the Companyâ€™s Annual Report on FormÂ 10-K filed with the SEC on April 15, 2024.â€‹Customer ConcentrationsFor the three months ended June 30, 2024, four customers represented 60% of total product revenue and one customer represented 86% of engineering services revenue. For the three months ended June 30, 2023, one customer represented 75% of total product revenue. For the six months ended June 30, 2024, three customers represented 37% of total product revenue and one customer represented 82% of engineering services revenue. For the six months ended June 30, 2023, two customers represented 75% of total product revenue.As of June 30, 2024, three customers represented 93% of accounts receivable. As of December 31, 2023, two customers represented 73% of accounts receivable.Fair Value of Financial Instrumentsâ€‹The Companyâ€™s financial instruments primarily consist of cash and cash equivalents, accounts receivable, accounts payable, unearned revenue, accrued expenses, and income and other taxes payable. As of the consolidated balance sheet dates, the estimated fair values of the financial instruments were not materially different from their carrying values as presented due to the short maturities of these instruments.Going ConcernÂ Â Â The accompanying consolidated financial statements have been prepared assuming that the Company will continue as a going concern. This basis of accounting contemplates the recovery of our assets and the satisfaction of liabilities in the normal course of business. These consolidated financial statements do not include any adjustments to the specific amounts and classifications of assets and liabilities, which might be necessary should we be unable to continue as a going concern. â€‹The Financial Accounting Standards Board (FASB) issued Accounting Standards Update No. (ASU) 2014- 15, Presentation of Financial Statements â€” Going Concern (Subtopic 205-40): Disclosure of Uncertainties about an Entityâ€™s Ability to Continue as a Going Concern. As a result, management is primarily responsible for assessing if there is a going concern issue when issuing an entityâ€™s financial statements. The going concern assumption underlies all GAAP financial reporting and therefore requires and assumes that the financial statements have been prepared on a going concern basis. It presumes that a Company will continue normal business operations into the future.â€‹Additional disclosure is required when there is substantial doubt about business continuity or substantial doubt that has not been alleviated by managementâ€™s mitigation plans. As required under applicable accounting standards, management has concluded that substantial doubt may exist surrounding the Company's ability to meet its obligations within one year of the release of the financial statements. â€‹The Company incurred net losses for the six months ended June 30, 2024 of $50,659,775; $50,149,077 for the year ended December 31, 2023; and $40,763,573 for the year ended December 31, 2022. The Company had net cash outflows from operations of $14,440,335 for the six months ended June 30, 2024; $26,277,824 for the year ended December 31, 2023; and $24,521,082 for the year ended December 31, 2022. As of June 30, 2024, the Company had an accumulated deficit of $344,644,568. The Companyâ€™s cash outflows for investing activities were $2,234,041 for the six months ended June 30, 2024; $19,280,966 for the year ended December 31, 2023; and $21,170,816 for the year ended December 31, 2022.â€‹These factors initially raise substantial doubt about the Companyâ€™s ability to continue as a going concern. Managementâ€™s plans to alleviate the conditions that raise substantial doubt include the implementation of operational improvements and the curtailment of certain development programs, both of which the Company expects will preserve cash. â€‹The Companyâ€™s cash requirements going forward are primarily for funding operating losses, research and development, working capital and capital expenditures. The higher cash outflows for investments in the years ending December 31, 2023 and 2022 were mainly for the Companyâ€™s exclusive technology license and equity investment in microLED technology via Atomistic (see Notes 6 and 7). The Company paid $32,500,000 to Atomistic in the last two fiscal years. The Companyâ€™s license was terminated on July 1, 2024. As a result, the Company will not be paying further licensing development fees to Atomistic. Â â€‹Our cash requirements related to funding operating losses depend upon numerous factors, including new product development activities, our ability to commercialize our products, our productsâ€™ timely market acceptance, selling prices and gross margins, and other factors. Historically, the Company has met its cash needs primarily through the sale of equity securities. â€‹The Companyâ€™s management intends to take actions necessary to continue as a going concern, as discussed herein. The Company will need to grow its business significantly to become profitable and self-sustaining on a cash flow basis or it will be required to cut its operating costs significantly or raise new equity and/or debt capital. Managementâ€™s plans concerning these matters and managing our liquidity include, among other things:Â Â Â Â Â â—Reductions in our cash annual operating expenses by approximately $8,000,000 for 2024 across all operating areas, representing a reduction of at least 20% as compared to 2023 levels, including the areas of Research and Development, Sales and Marketing and General and Administrative;â—Implementation of a voluntary Company-wide payroll reduction program for all individuals with optional salary reductions of 10% to 50% depending upon the respective base salary level for the period running from May 1, 2024 to April 30, 2025. The expected cash savings will be approximately $2,100,000 and will result in the issuance of stock awards or stock options, at a rate of 150% or 200%, respectively, of the net cash wage reductions;â—After the impact of payroll reduction program for equity and two major rounds of staff reductions, including another round at the end of June 2024, the Companyâ€™s current weekly gross cash salary costs are now approximately $162,000 versus $263,000 at the beginning of 2024, a decrease of $101,000 per week or 38.4% (or a total of $5,252,000 on an annual basis);â—Right-sizing of operations across all areas of the Company, including head-count hiring freezes or head-count reductions;â—Further reductions in the rate of research and development spending on new technologies, particularly the use of external contractors;â—Delaying or curtailing discretionary and non-essential capital expenditures not related to near-term product and manufacturing needs and reducing other investing activities for our 2024 fiscal year as compared to 2023 and 2022, now that our waveguide manufacturing plant expansion has substantially been completed and the license fees payments under the Atomistic License have been completed; â—The expected margin contribution upon the commencement of volume manufacturing and sales of waveguides from our new waveguide manufacturing plant, particularly to OEM customers;â—Continued pursuit of licensing and strategic opportunities around our waveguide technologies with potential OEMs, which would include the receipt of upfront licensing fees and on-going supply agreements;â—Reduction in the rate of new product introductions and further leveraging of existing platforms to reduce new product development and engineering costs; andâ—Reduction in our existing products selling prices and higher volume discount levels to turn as much of our inventory of finished products into cash and pursue external manufacturers for Vuzix non-waveguide production needs.The Company has historically sold equity securities and currently has a new Registration Statement on Form S-3 that became effective in May 2024, which includes a sales agreement with an investment banking firm for the issuance and sale of up to $50,000,000 of our common stock that may be issued and sold from time to time in an â€œat the marketâ€ offering. Management monitors the capital markets on an ongoing basis and may consider raising capital if favorable market conditions develop. If the Companyâ€™s actual results are less than projected or the Company needs to raise

capital for additional liquidity, the Company may be required to pursue additional equity financings, further curtail expenses, or enter into one or more strategic transactions. However, management can make no assurance that the Company will be able to successfully complete any of the forementioned pursuits on terms acceptable to the Company, or at all.â€‹While there can be no assurance the Company will be able to successfully reduce operating expenses or raise additional capital, management believes its historical ability to manage its cash flows and to obtain capital will continue into the foreseeable future. However, as a result of this uncertainty, doubt about the Company continuing as a going concern has not been fully alleviated to the satisfaction of its external auditors as noted in their audit report included with to the Companyâ€™s 10-K filed with the SEC on April 15, 2024.â€‹Use of Estimatesâ€‹The preparation of the consolidated financial statements in conformity with accounting principles generally accepted in the United States requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities atÂ year-end and the reported amounts of revenue and expenses during the reporting period. Actual results could differ from those estimates.Variable Interest Entities The Company determines at the inception of each arrangement whether an entity in which it has made an investment or in which the Company has other variable interests is considered a variable interest entity (VIE). The Company consolidates VIEs when it is the primary beneficiary. The Company is the primary beneficiary of a VIE when it has the power to direct activities that most significantly affect the economic performance of the VIE and have the obligation to absorb the majority of their losses or benefits. If the Company is not the primary beneficiary in a VIE, the Company accounts for the investment or other variable interests in a VIE in accordance with applicable GAAP. At each reporting period, the Company assesses whether any changes in our interest or relationship with the entity affect our determination of whether the entity is a VIE and, if so, whether the Company is the primary beneficiary.We have an investment in a VIE, Atomistic, in which we are not the primary beneficiary. This VIE includes a private company investment, described further in Notes 6 and 7. We have determined that the governance and operating structures of this entity do not allow us to direct the activities that would significantly affect their economic performance. Therefore, we are not the primary beneficiary, and the results of operations and financial position of this VIE are not included in our consolidated financial statements. We had accounted for this investment as a technology license and an equity investment. The maximum exposure of this unconsolidated VIE is generally based on the current carrying value of the investment. We have determined that the single source of our exposure to this VIE was our capital investment in them. The carrying value and maximum exposure of this unconsolidated VIE was $31.8 million as of March 31, 2024; however, as of June 30, 2024, the carrying value of these investments of $30.1 million was written-off due to the termination of the Companyâ€™s exclusive license. Refer to Notes 6 and 7 for further details.Recent Accounting Pronouncements Not Yet AdoptedIn December 2023, the FASB issued ASU 2023-09 "Income Taxes (Topics 740): Improvements to Income Tax Disclosures" to expand the disclosure requirements for income taxes, specifically related to the rate reconciliation and income taxes paid. ASU 2023-09 is effective for our annual periods beginning January 1, 2025, with early adoption permitted. We are currently evaluating the potential effect that the updated standard will have on our financial statement disclosures.â€‹ Going Concern Going ConcernÂ Â Â The accompanying consolidated financial statements have been prepared assuming that the Company will continue as a going concern. This basis of accounting contemplates the recovery of our assets and the satisfaction of liabilities in the normal course of business. These consolidated financial statements do not include any adjustments to the specific amounts and classifications of assets and liabilities, which might be necessary should we be unable to continue as a going concern. â€‹The Financial Accounting Standards Board (FASB) issued Accounting Standards Update No. (ASU) 2014- 15, Presentation of Financial Statements â€” Going Concern (Subtopic 205-40): Disclosure of Uncertainties about an Entityâ€™s Ability to Continue as a Going Concern. As a result, management is primarily responsible for assessing if there is a going concern issue when issuing an entityâ€™s financial statements. The going concern assumption underlies all GAAP financial reporting and therefore requires and assumes that the financial statements have been prepared on a going concern basis. It presumes that a Company will continue normal business operations into the future.â€‹Additional disclosure is required when there is substantial doubt about business continuity or substantial doubt that has not been alleviated by managementâ€™s mitigation plans. As required under applicable accounting standards, management has concluded that substantial doubt may exist surrounding the Company's ability to meet its obligations within one year of the release of the financial statements. â€‹The Company incurred net losses for the six months ended June 30, 2024 of $50,659,775; $50,149,077 for the year ended December 31, 2023; and $40,763,573 for the year ended December 31, 2022. The Company had net cash outflows from operations of $14,440,335 for the six months ended June 30, 2024; $26,277,824 for the year ended December 31, 2023; and $24,521,082 for the year ended December 31, 2022. As of June 30, 2024, the Company had an accumulated deficit of $344,644,568. The Companyâ€™s cash outflows for investing activities were $2,234,041 for the six months ended June 30, 2024; $19,280,966 for the year ended December 31, 2023; and $21,170,816 for the year ended December 31, 2022.â€‹These factors initially raise substantial doubt about the Companyâ€™s ability to continue as a going concern. Managementâ€™s plans to alleviate the conditions that raise substantial doubt include the implementation of operational improvements and the curtailment of certain development programs, both of which the Company expects will preserve cash. â€‹The Companyâ€™s cash requirements going forward are primarily for funding operating losses, research and development, working capital and capital expenditures. The higher cash outflows for investments in the years ending December 31, 2023 and 2022 were mainly for the Companyâ€™s exclusive technology license and equity investment in microLED technology via Atomistic (see Notes 6 and 7). The Company paid $32,500,000 to Atomistic in the last two fiscal years. The Companyâ€™s license was terminated on July 1, 2024. As a result, the Company will not be paying further licensing development fees to Atomistic. Â â€‹Our cash requirements related to funding operating losses depend upon numerous factors, including new product development activities, our ability to commercialize our products, our productsâ€™ timely market acceptance, selling prices and gross margins, and other factors. Historically, the Company has met its cash needs primarily through the sale of equity securities. â€‹The Companyâ€™s management intends to take actions necessary to continue as a going concern, as discussed herein. The Company will need to grow its business significantly to become profitable and self-sustaining on a cash flow basis or it will be required to cut its operating costs significantly or raise new equity and/or debt capital. Managementâ€™s plans concerning these matters and managing our liquidity include, among other things:Â Â Â Â â—Reductions in our cash annual operating expenses by approximately $8,000,000 for 2024 across all operating areas, representing a reduction of at least 20% as compared to 2023 levels, including the areas of Research and Development, Sales and Marketing and General and Administrative;â—Implementation of a voluntary Company-wide payroll reduction program for all individuals with optional salary reductions of 10% to 50% depending upon the respective base salary level for the period running from May 1, 2024 to April 30, 2025. The expected cash savings will be approximately $2,100,000 and will result in the issuance of stock awards or stock options, at a rate of 150% or 200%, respectively, of the net cash wage reductions;â—After the impact of payroll reduction program for equity and two major rounds of staff reductions, including another round at the end of June 2024, the Companyâ€™s current weekly gross cash salary costs are now approximately $162,000 versus $263,000 at the beginning of 2024, a decrease of $101,000 per week or 38.4% (or a total of $5,252,000 on an annual basis);â—Right-sizing of operations across all areas of the Company, including head-count hiring freezes or head-count reductions;â—Further reductions in the rate of research and development spending on new technologies, particularly the use of external contractors;â—Delaying or curtailing discretionary and non-essential capital expenditures not related to near-term product and manufacturing needs and reducing other investing activities for our 2024 fiscal year as compared to 2023 and 2022, now that our waveguide manufacturing plant expansion has substantially been completed and the license fees payments under the Atomistic License have been completed; â—The expected margin contribution upon the commencement of volume manufacturing and sales of waveguides from our new waveguide manufacturing plant, particularly to OEM customers;â—Continued pursuit of licensing and strategic opportunities around our waveguide technologies with potential OEMs, which would include the receipt of upfront licensing fees and on-going supply agreements;â—Reduction in the rate of new product introductions and further leveraging of existing platforms to reduce new product development and engineering costs; andâ—Reduction in our existing products selling prices and higher volume discount levels to turn as much of our inventory of finished products into cash and pursue external manufacturers for Vuzix non-waveguide production needs.The Company has historically sold equity securities and currently has a new Registration Statement on Form S-3 that became effective in May 2024, which includes a sales agreement with an investment banking firm for the issuance and sale of up to $50,000,000 of our common stock that may be issued and sold from time to time in an â€œat the marketâ€ offering. Management monitors the capital markets on an ongoing basis and may consider raising capital if favorable market conditions develop. If the Companyâ€™s actual results are less than projected or the Company needs to raise capital for additional liquidity, the Company may be required to pursue additional equity financings, further curtail expenses, or enter into one or more strategic transactions. However, management can make no assurance that the Company will be able to successfully complete any of the forementioned pursuits on terms acceptable to the Company, or at all.â€‹While there can be no assurance the Company will be able to successfully reduce operating expenses or raise additional capital, management believes its historical ability to manage its cash flows and to obtain capital will continue into the foreseeable future. However, as a result of this uncertainty, doubt about the Company continuing as a going concern has not been fully alleviated to the satisfaction of its external auditors as noted in their audit report included with to the Companyâ€™s 10-K filed with the SEC on April 15, 2024. X - DefinitionThe entire disclosure for the basis of accounting, or basis of presentation, used to prepare the financial statements (for example, US Generally Accepted Accounting Principles, Other Comprehensive Basis of Accounting, IFRS). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 235 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org//235/tableOfContent + Details Name: us-gaap_BasisOfAccounting Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_OrganizationConsolidationAndPresentationOfFinancialStatementsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure when substantial doubt is raised about the ability to continue as a going concern. Includes, but is not limited to, principal conditions or events that raised substantial doubt about the ability to continue as a going concern, management's evaluation of the significance of those conditions or events in relation to the ability to meet its obligations, and management's plans that alleviated or are intended to mitigate the conditions or events that raise substantial doubt about the ability to continue as a going concern. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 40 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org//205-40/tableOfContent + Details Name: us-gaap_SubstantialDoubtAboutGoingConcernTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 19 R8.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Revenue Recognition and Contracts with Customers 6 Months Ended Jun. 30, 2024 Revenue Recognition and Contracts with Customers Â Revenue Recognition and Contracts with Customers NoteÂ 2Â â€“ Revenue Recognition and Contracts with CustomersDisaggregated RevenueThe Companyâ€™s total revenue was comprised of two major product lines: Smart Glasses Sales and Engineering Services. The following table summarizes the revenue recognized by major product line:â€‹â€‹â€‹

gaap_RevenueFromContractWithCustomerTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 20 R9.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Loss Per Share 6 Months Ended Jun. 30, 2024 Loss Per Share Â Loss Per Share NoteÂ 3Â â€“ Loss Per ShareBasic loss per share is computed by dividing the loss attributable to common stockholders by the weighted average number of common shares outstanding for the period. Diluted earnings per share reflects the potential dilution from the assumed exercise of stock options. During periods of net loss, all common stock equivalents are excluded from the diluted EPS calculation because they are anti-dilutive. Since the Company reported a net loss for the three and six months ended June 30, 2024 and 2023, the calculation for basic and diluted earnings per share is considered to be the same, as the impact of potential common shares is anti-dilutive. As of June 30, 2024 and 2023, there were 10,744,477 and 8,658,642 common stock share equivalents, for the three months then ended, respectively, potentially issuable from the exercise of stock options that could dilute basic earnings per share in the future.â€‹ X - ReferencesNo definition available. + Details Name: us-gaap_EarningsPerShareAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for earnings per share. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org//260/tableOfContentReference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482662/260-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482662/260-10-50-3 + Details Name: us-gaap_EarningsPerShareTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 21 R10.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Inventories, Net 6 Months Ended Jun. 30, 2024 Inventories, Net Â Inventories, Net NoteÂ 4Â â€“ Inventories, NetInventories are stated at the lower of cost and net realizable value, and consisted of the following:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹JuneÂ 30,Â â€‹DecemberÂ 31,Â â€‹Â Â Â Â Â 2024Â Â Â Â Â 2023â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Purchased Parts and Componentsâ€‹$ 10,876,973â€‹$ 9,500,415Work-in-Processâ€‹Â 291,432â€‹Â 394,923Finished Goodsâ€‹Â 5,044,284â€‹Â 4,880,643Less: Reserve for Obsolescenceâ€‹Â (5,974,526)â€‹Â (5,775,551)â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Inventories, Netâ€‹$ 10,238,163â€‹$ 9,000,430â€‹ X - ReferencesNo definition available. + Details Name: us-gaap_InventoryDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for inventory. Includes, but is not limited to, the basis of stating inventory, the method of determining inventory cost, the classes of inventory, and the nature of the cost elements included in inventory. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 330 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org//330/tableOfContent + Details Name: us-gaap_InventoryDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 22 R11.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Fixed Assets 6 Months Ended Jun. 30, 2024 Fixed Assets Â Fixed Assets Note 5 â€“ Fixed AssetsFixed Assets consisted of the following:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹JuneÂ 30,Â â€‹DecemberÂ 31,Â â€‹Â Â Â Â Â 2024Â Â Â Â Â 2023Tooling and Manufacturing Equipmentâ€‹$ 9,585,842â€‹$ 8,793,192Leaseholdsâ€‹Â 2,839,164â€‹Â 3,162,695Computers and Purchased Softwareâ€‹Â 679,138â€‹Â 833,794Furniture and Equipmentâ€‹Â 2,431,846â€‹Â 2,580,904â€‹â€‹Â 15,535,990â€‹Â 15,370,585Less: Accumulated Depreciationâ€‹Â (7,347,127)â€‹Â (7,297,755)Fixed Assets, Netâ€‹$ 8,188,863â€‹$ 8,072,830â€‹December 31, 2023 asset groupings have been reclassified to conform with June 30, 2024 presentation.As of June 30, 2024 and December 31, there was $965,000 and $588,000, respectively of fixed assets that are not yet placed into service.Total depreciation expense for fixed assets for theÂ three months ended June 30, 2024 and 2023 was $231,222 and $111,934, respectively. Total depreciation expense for fixed assets for theÂ six months ended June 30, 2024 and 2023 was $522,042 and $214,385, respectively. X - DefinitionThe entire disclosure for long-lived, physical asset used in normal conduct of business and not intended for resale. Includes, but is not limited to, work of art, historical treasure, and similar asset classified as collections. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org//360/tableOfContentReference 2: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 6 -SubTopic 360 -Topic 958 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480321/958-360-50-6Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d) -SubTopic 360 -Topic 958 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480321/958-360-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 7 -SubTopic 360 -Topic 958 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480321/958-360-50-7 + Details Name: us-gaap_PropertyPlantAndEquipmentDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_PropertyPlantAndEquipmentNetAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 23 R12.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Technology Licenses, Net 6 Months Ended Jun. 30, 2024 Technology Licenses, Net Â Technology Licenses, Net NoteÂ 6Â â€“ Technology Licenses, Netâ€‹The changes in the Companyâ€™s Technology Licenses for the six months ended June 30, 2024, were as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹JuneÂ 30,Â â€‹DecemberÂ 31,Â â€‹Â Â Â Â Â 2024Â Â Â Â Â 2023â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Licensesâ€‹$ 32,443,356â€‹$ 32,443,356Write Offsâ€‹Â (30,000,000)â€‹Â â€”Less: Accumulated Amortizationâ€‹Â (1,581,778)â€‹Â (5,592,355)Licenses, Netâ€‹$ 861,578â€‹$ 26,851,001â€‹Total amortization expense related to technology licenses for the three months ended June 30, 2024 and 2023 was $835,542 and $826,984, respectively. Total amortization expense related to technology licenses for the six months ended June 30, 2024 and 2023 was $1,653,876 and $1,653,868, respectively. The estimated aggregate annual amortization expense for each of the next five fiscalÂ years is approximately $201,000.The Company made the decision to cease further funding of development activities with Atomistic SAS (â€œAtomisticâ€) under the license agreement, dated December 16, 2022, among the Company, Atomistic, and Atomisticâ€™s two principals (the â€œLicense Agreementâ€). The Companyâ€™s decision gave Atomistic the right under the License Agreement to terminate the Granted License (as defined under the License Agreement), which right Atomistic exercised on July 1, 2024. As a result of the termination of the granted license, on July 1, 2024, which was effective June 30, 2024, the Company determined that the technology license asset of $24,335,554, net book value as of June 30, 2024, had been impaired as the Company no longer held exclusive licensing rights to the technology for its use. Â â€‹Notwithstanding the termination of the Granted License, the Company will be entitled to certain License Royalties (as defined under the License Agreement) from Atomistic if it licenses the technology that was the subject of the granted license. X - Definitionn/a + ReferencesNo definition available. + Details Name: vuzi_DisclosureOfLicensesNetAbstract Namespace Prefix: vuzi_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure of licenses, net. + ReferencesNo definition available. + Details Name: vuzi_LicensesNetTextBlock Namespace Prefix: vuzi_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 24 R13.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Investment in Atomistic 6 Months Ended Jun. 30, 2024 Investment in Atomistic Â Investment in Atomistic Note 7 â€“ Investment in AtomisticIn addition to the write-off of the Atomistic technology license discussed in Note 6, based upon the fact that Atomistic has lost future funding from the Company and most likely will not have adequate funds on its own to complete the project without raising additional funding from other third parties, the Company also determined the equity investment has been impaired and the Company recorded a charge of $5,664,446 for the period ended June 30, 2024. The Company will retain an equity interest in Atomistic, the right to appoint a member to the Atomistic board of directors and certain other rights as an equity owner pursuant to the stock purchase agreement and shareholdersâ€™ agreement entered into in connection with the License Agreement. The Companyâ€™s equity interest in Atomistic entitles it to a preferential allocation to 49% of the distributable amounts in the event of a liquidation event, such as an acquisition of Atomistic or its assets. Â Â â€‹Future royalties of the license and the 49% liquidation preferred allocation value, if any, are considered gain contingencies and will not be recorded until any specific events materialize. Â At this specific point in time, the Company is unable to reasonably estimate a value to all those contingencies and therefore recorded a full impairment against the license and the investment in Atomistic preferred shares due to such uncertainty of potential outcomes. Â â€‹ X - DefinitionThe entire disclosure for equity method investments and joint ventures. Equity method investments are investments that give the investor the ability to exercise significant influence over the operating and financial policies of an investee. Joint ventures are entities owned and operated by a small group of businesses as a separate and specific business or project for the mutual benefit of the members of the group. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481687/323-10-50-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481687/323-10-50-3Reference 3: http://www.xbrl.org/2003/role/recommendedDisclosureRef -Topic 323 -SubTopic 740 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481543/323-740-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Topic 323 -Publisher FASB -URI https://asc.fasb.org//323/tableOfContent + Details Name: us-gaap_EquityMethodInvestmentsDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_InvestmentsDebtAndEquitySecuritiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 25 R14.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Other Assets 6 Months Ended Jun. 30, 2024 Other Assets Â Other Assets Note 8 - Other AssetsThe Companyâ€™s Other Assets, were as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹June 30,â€‹DecemberÂ 31,Â â€‹Â Â Â Â Â 2024Â Â Â Â Â 2023Private Corporation Investmentsâ€‹$ 650,000â€‹$ 450,000Additionsâ€‹â€‹ â€”â€‹â€‹ 200,000Total Private Corporation Investments (at cost)â€‹â€‹ 650,000â€‹â€‹ 650,000â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Software Development Costsâ€‹â€‹ 1,000,000â€‹â€‹ 875,000Additionsâ€‹â€‹ â€”â€‹â€‹ 125,000Less: Accumulated Amortizationâ€‹â€‹ (722,222)â€‹â€‹ (638,889)Software Development Costs, Netâ€‹â€‹ 277,778â€‹â€‹ 361,111â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Total Other Assetsâ€‹$ 927,778â€‹$ 1,011,111â€‹During the year ended December 31, 2021, the Company acquired, for a purchase price of $200,000, an ownership interest of 3%, in the form of preferred stock, in a private corporation developing smart glasses software for use by retailers in the stockkeeping of inventory, amongst other uses. In the year ended December 31, 2023, the Company purchased an additional $100,000 of preferred stock in this corporation to retain a 2% ownership interest.â€‹In June 2023, the Company purchased $100,000 of preferred stock, along with warrants, in a UK-based public company developing new semiconductor materials for displays. The investment represents less than a 1% ownership interest. â€‹Total amortization expense related to all software updates, included in cost of sales, for the three months ended June 30, 2024, and 2023 were $41,668 and $83,333, respectively. Total amortization expense related to all software updates, included in cost of sales, for the six months ended June 30, 2024, and 2023 were $83,333 and $138,889, respectively. X - ReferencesNo definition available. + Details Name: us-gaap_OtherAssetsNoncurrentDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for other non current assets. + ReferencesNo definition available. + Details Name: vuzi_OtherNonCurrentAssetsTextBlock Namespace Prefix: vuzi_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 26 R15.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Accrued Expenses 6 Months Ended Jun. 30, 2024 Accrued Expenses Â Accrued Expenses NoteÂ 9Â â€“ Accrued ExpensesAccrued expenses consisted of the following:â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹JuneÂ 30,Â â€‹DecemberÂ 31,Â â€‹Â Â Â Â Â 2024Â Â Â Â Â 2023â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Accrued Wages and Related Costsâ€‹$ 723,432â€‹$ 1,711,707Accrued Professional Servicesâ€‹Â 151,650â€‹Â 362,100Accrued Warranty Obligationsâ€‹Â 131,327â€‹Â 188,249Other Accrued Expensesâ€‹Â â€”â€‹Â 154,387â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Totalâ€‹$ 1,006,409â€‹$ 2,416,443â€‹Included in Accrued Wages and Related Costs was $410,251 in severance costs for staff reductions that took place at the end of June 2024 as part of the Companyâ€™s cost reduction initiative, which was approved in June 2024 and made effective July 1, 2024.The Company has warranty obligations in connection with the sale of certain of its products. The warranty period for its products is generally twelve (12)Â months, unless the customer purchases an extended warranty for an additional twelve (12) months. The costs incurred to provide for these warranty obligations are estimated and recorded as an accrued liability at the time of sale. The Company estimates its future warranty costs based upon product-based historical performance rates and related costs to repair.The changes in the Companyâ€™s accrued warranty obligations for the six months ended June 30, 2024, were as follows:â€‹â€‹â€‹â€‹â€‹â€‹â€‹Accrued Warranty Obligations at DecemberÂ 31,Â 2023â€‹$ 188,249Reductions for Settling Warrantiesâ€‹Â (129,832)Warranties Issued During Periodâ€‹Â 72,910â€‹â€‹â€‹â€‹â€‹â€‹Accrued Warranty Obligations at JuneÂ 30,Â 2024â€‹$ 131,327â€‹ X - DefinitionThe entire disclosure for accounts payable and accrued liabilities at the end of the reporting period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 210 -SubTopic 10 -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02.19(a),20,24) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_AccountsPayableAndAccruedLiabilitiesDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_PayablesAndAccrualsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 27 R16.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Income Taxes 6 Months Ended Jun. 30, 2024 Income Taxes Â Income Taxes NoteÂ 10Â â€“ Income TaxesThe Companyâ€™s effective income tax rate is a combination of federal, state and foreign tax rates and differs from the U.S. statutory rate due to taxes on foreign income, permanent differences including tax-exempt interest, and the resolution of tax uncertainties, offset by a valuation allowance against U.S. deferred income tax assets. X - ReferencesNo definition available. + Details Name: us-gaap_IncomeTaxDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for income taxes. Disclosures may include net deferred tax liability or asset recognized in an enterprise's statement of financial position, net change during the year in the total valuation allowance, approximate tax effect of each type of temporary difference and carryforward that gives rise to a significant portion of deferred tax liabilities and deferred tax assets, utilization of a tax carryback, and tax uncertainties information. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480990/946-20-50-13Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(h)(2)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org//740/tableOfContentReference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482685/740-10-50-14Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 21 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482685/740-10-50-21Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 270 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482526/740-270-50-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 17 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482685/740-10-50-17Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB TOPIC 6.I.5.Q1) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479360/740-10-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 11.C) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479360/740-10-S99-2Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482603/740-30-50-2 + Details Name: us-gaap_IncomeTaxDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 28 R17.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Capital Stock 6 Months Ended Jun. 30, 2024 Capital Stock Â Capital Stock NoteÂ 11Â â€“ Capital StockPreferred stockThe Board of Directors is authorized to establish and designate different series of preferred stock and to fix and determine their voting powers and other rights and terms. The Company has 5,000,000 authorized shares of preferred stock with a par value of $0.001 as of June 30, 2024, and DecemberÂ 31, 2023. Of this total, 49,626 shares are designated as SeriesÂ A Preferred Stock. There were nil shares of SeriesÂ A Preferred Stock issued and outstanding on June 30, 2024, and DecemberÂ 31, 2023.Common StockThe Companyâ€™s authorized common stock consists of 100,000,000 shares, par value of $0.001. There were 66,034,769 shares issued and 65,455,097 shares outstanding as of June 30, 2024 and 65,304,780 shares issued and 64,725,108 shares outstanding as of December 31, 2023. â€‹â€‹On May 6, 2024, the Company implemented a voluntary Company-wide

payroll reduction program for all employees, directors and contractors with optional salary or compensation reductions of 10% to 50% depending upon the respective base salary or compensation level for the period running from May 1, 2024 to April 30, 2025. The estimated cash savings will be approximately $2,100,000 and resulted in the issuance of stock awards and stock options, at a rate of 150% or 200%, respectively, of the net cash wage reductions. â€‹The fair market value of these stock awards and stock option awards has been determined at $1.33 and $0.99, respectively, and a total of 824,711 stockÂ awards and 2,756,116 stock option awards with an exercise price of $1.33 were issued. Both the stock awards and stock option awards cliff vest on April 30, 2025. These awards are subject to vesting and resale rules.â€‹In connection with the Atomistic Technology Licenses discussed in Note 6, on November 20, 2023, the Company issued a total of 1,397,500 shares of common stock to the Founders of Atomistic SAS (â€œAtomisticâ€) for the achievement of certain technological milestones under a license agreement entered into between the Company, Atomistic and the Founders, along with cash consideration in exchange for equity in Atomistic (see Note 7). Pursuant to the Stock Purchase Agreement with Atomistic and its Founders, the Company will, contingent upon completion of certain deliverables and the achievement of further milestones contained in the Atomistic Agreements, be committed to issue, depending on the Companyâ€™s share price at the time of their issuance, a further minimum of approximately 890,000 up to a maximum of 1,446,250 common shares to the Founders of Atomistic (as consideration for certain shares of Atomistic) which would result in Vuzix owning Series A Preferred shares in Atomistic that would be converted into ordinary shares of Atomistic and Vuzix ultimately owning nearly 100% of Atomistic, with Atomistic becoming a subsidiary of the Company. â€‹Within five years of the commencement of the Atomistic Agreements, the Company has agreed to issue up to a 15% equity bonus of the previously issued common shares to Atomistic stockholders, if: (i) the Company engages in a change-of-control transaction for an implied equity value of at least $3.5 billion or (ii) the Companyâ€™s market valuation exceeds $3.5 billion. This could result in the issuance of an additional 291,346 to 473,438 shares of the Companyâ€™s common stock when that valuation target is exceeded. None of these share commitments have been issued to date.â€‹Treasury StockOn March 2, 2022, our Board of Directors approved the repurchase by the Company of up to an aggregate of $25 million of our common stock by open market or privately negotiated transactions under the Share Buyback Program. Â This program was in effect for one year and expired on March 2, 2023. During the six months ended June 30, 2023, the Company repurchasedÂ 115,000Â shares of our common stock at an average cost of $4.06, before commission of $0.03 per share. As of June 30, 2024,Â 579,672Â shares of our common stock were held in treasury. X - ReferencesNo definition available. + Details Name: us-gaap_StockholdersEquityNoteAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for equity. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481112/505-10-50-13Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481112/505-10-50-13Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481112/505-10-50-14Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 235 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481062/946-235-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 235 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481062/946-235-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 505 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481004/946-505-50-6Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480237/815-40-50-6Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480008/505-10-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(e)(1)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1Reference 10: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org//505/tableOfContentReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481112/505-10-50-13Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481112/505-10-50-13Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481112/505-10-50-13Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481112/505-10-50-14Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481112/505-10-50-14Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 16 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481112/505-10-50-16Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481112/505-10-50-18Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481112/505-10-50-18Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481112/505-10-50-18 + Details Name: us-gaap_StockholdersEquityNoteDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 29 R18.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Stock-Based Compensation 6 Months Ended Jun. 30, 2024 Stock-Based Compensation Â Stock-Based Compensation NoteÂ 12Â â€“ Stock-Based CompensationA summary of stock option activity related to the Companyâ€™s standard employee incentive plan (excluding options awarded under the Long-Term Incentive Plan (LTIP) â€“ Note 13) for the six months ended June 30, 2024, is as follows:â€‹â€‹â€‹

June 30, 2024, and 2023, respectively. Operating lease costs under the operating leases totaled $375,648 and $410,691 for the six months ended June 30, 2024, and 2023, respectively. As of June 30, 2024, the weighted average discount rate was 8.3% and the weighted average remaining lease term was 1.4Â years. X - ReferencesNo definition available. + Details Name: us-gaap_LesseeDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for operating leases of lessee. Includes, but is not limited to, description of operating lease and maturity analysis of operating lease liability. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org//842-20/tableOfContent + Details Name: us-gaap_LesseeOperatingLeasesTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 33 R22.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Subsequent Events 6 Months Ended Jun. 30, 2024 Subsequent Events Â Subsequent Events Note 16 â€" Subsequent Eventsâ€‹In connection with the Atomistic Agreements, on August 12, 2024, the Company issued a total of 174,688 shares of common stock at a fair market value of $1.04 per share (closing price on August 9, 2024) or $181,676 to the Founders of Atomistic SAS (â€œAtomisticâ€) for the achievement of certain technological milestones. This issuance will be recorded as an additional impairment charge related to the Atomistic equity investment in the third quarter of 2024. X - ReferencesNo definition available. + Details Name: us-gaap_SubsequentEventsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for significant events or transactions that occurred after the balance sheet date through the date the financial statements were issued or the date the financial statements were available to be issued. Examples include: the sale of a capital stock issue, purchase of a business, settlement of litigation, catastrophic loss, significant foreign exchange rate changes, loans to insiders or affiliates, and transactions not in the ordinary course of business. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 855 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org//855/tableOfContentReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 855 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483399/855-10-50-2 + Details Name: us-gaap_SubsequentEventsTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 34 R23.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Pay vs Performance Disclosure - USD ($) 3 Months Ended 6 Months Ended 12 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Dec. 31, 2023 Dec. 31, 2022 Pay vs Performance Disclosure Â Â Â Â Â Â Â Net Income (Loss) $ (40,612,193) $ (9,044,920) $ (50,659,775) $ (19,285,503) $ (50,149,077) $ (40,763,573) X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 402 -Subsection v -Paragraph 1 + Details Name: ecd_PvpTable Namespace Prefix: ecd_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481687/323-10-50-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482907/825-10-50-28Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482765/220-10-50-6Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480175/815-40-65-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-8Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-9Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-11Reference 11: 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http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 2 -Subparagraph A + Details Name: ecd_TradingArrByIndTable Namespace Prefix: ecd_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionNonRule 10b5-1 Arrangement Modified Flag + ReferencesNo definition available. + Details Name: vuzi_Nonrule10b51ArrangementModifiedFlag Namespace Prefix: vuzi_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionRule 10b5-1 Arrangement Modified Flag + ReferencesNo definition available. + Details Name: vuzi_Rule10b51ArrangementModifiedFlag Namespace Prefix: vuzi_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration XML 36 R25.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Basis of Presentation (Policies) 6 Months Ended Jun. 30, 2024 Basis of Presentation Â Basis of Presentation The accompanying unaudited consolidated financial statements of Vuzix Corporation (â€œthe Companyâ€ or â€œVuzixâ€) have been prepared in accordance with generally accepted accounting principles in the United States of America (â€œGAAPâ€) for interim financial information and with the instructions to FormÂ 10-Q and Regulation S-X of the Securities and Exchange Commission (the â€œSECâ€). Accordingly, the unaudited consolidated financial statements do not include all information and footnotes required by GAAP for complete financial statements. In the opinion of management, all adjustments considered necessary for a fair presentation have been included. The results of the Companyâ€™s operations for the three and six months ended June 30, 2024, are not necessarily indicative of the results of the Companyâ€™s operations for the full fiscalÂ year or any other period.The accompanying interim consolidated financial statements should be read in conjunction with the audited consolidated financial statements and the notes thereto of the Company as of and for the year ended DecemberÂ 31, 2023, as reported in the Companyâ€™s Annual Report on FormÂ 10-K filed with the SEC on April 15, 2024. Customer Concentrations Customer ConcentrationsFor the three months ended June 30, 2024, four customers represented 60% of total product revenue and one customer represented 86% of engineering services revenue. For the three months ended June 30, 2023, one customer represented 75% of total product revenue. For the six months ended June 30, 2024, three customers represented 37% of total product revenue and one customer represented 82% of engineering services revenue. For the six months ended June 30, 2023, two customers represented 75% of total product revenue.As of June 30, 2024, three customers represented 93% of accounts receivable. As of December 31, 2023, two customers represented 73% of accounts receivable. Fair Value of Financial Instruments Fair Value of Financial Instrumentsâ€‹The Companyâ€™s financial instruments primarily consist of cash and cash equivalents, accounts receivable, accounts payable, unearned revenue, accrued expenses, and income and other taxes payable. As of the consolidated balance sheet dates, the estimated fair values of the financial instruments were not materially different from their carrying values as presented due to the short maturities of these instruments. Going Concern Going ConcernÂ Â Â The accompanying consolidated financial statements have been prepared assuming that the Company will continue as a going concern. This basis of accounting contemplates the recovery of our assets and the satisfaction of liabilities in the normal course of business. These consolidated financial statements do not include any adjustments to the specific amounts and classifications of assets and liabilities, which might be necessary should we be unable to continue as a going concern. â€‹The Financial Accounting Standards Board (FASB) issued Accounting Standards Update No. (ASU) 2014- 15, Presentation of Financial Statements â€" Going Concern (Subtopic 205-40): Disclosure of Uncertainties about an Entityâ€™s Ability to Continue as a Going Concern. As a result, management is primarily responsible for assessing if there is a going concern issue when issuing an entityâ€™s financial statements. The going concern assumption underlies all GAAP financial reporting and therefore requires and assumes that the financial statements have been prepared on a going concern basis. It presumes that a Company will continue normal business operations into the future.â€‹Additional disclosure is required when there is substantial doubt about business continuity or substantial doubt that has not been alleviated by managementâ€™s mitigation plans. As required under applicable accounting standards, management has concluded that substantial doubt may exist surrounding the Company's ability to meet its obligations within one year of the release of the financial statements. â€‹The Company incurred net losses for the six months ended June 30, 2024 of $50,659,775; $50,149,077 for the year ended December 31, 2023; and $40,763,573 for the year ended December 31, 2022. The Company had net cash outflows from operations of $14,440,335 for the six months ended June 30, 2024; $26,277,824 for the year ended December 31, 2023; and $24,521,082 for the year ended December 31, 2022. As of June 30, 2024, the Company had an accumulated deficit of $344,644,568. The Companyâ€™s cash outflows for investing activities were $2,234,041 for the six months ended June 30, 2024; $19,280,966 for the year ended December 31, 2023; and $21,170,816 for the year ended December 31, 2022.â€‹These factors initially raise substantial doubt about the Companyâ€™s ability to continue as a going concern. Managementâ€™s plans to alleviate the conditions that raise substantial doubt include the implementation of operational improvements and the curtailment of certain development programs, both of which the Company expects will preserve cash. â€‹The Companyâ€™s cash requirements going forward are primarily for funding operating losses, research and development, working capital and capital expenditures. The higher cash outflows for investments in the years ending December 31, 2023 and 2022 were mainly for the Companyâ€™s exclusive technology license and equity investment in microLED technology via Atomistic (see Notes 6 and 7). The Company paid $32,500,000 to Atomistic in the last two fiscal years. The Companyâ€™s license was terminated on July 1, 2024. As a result, the Company will not be paying further licensing development fees to Atomistic. Â â€‹Our cash requirements related to funding operating losses depend upon

numerous factors, including new product development activities, our ability to commercialize our products, our productsâ€™ timely market acceptance, selling prices and gross margins, and other factors. Historically, the Company has met its cash needs primarily through the sale of equity securities. â€‹The Companyâ€™s management intends to take actions necessary to continue as a going concern, as discussed herein. The Company will need to grow its business significantly to become profitable and self-sustaining on a cash flow basis or it will be required to cut its operating costs significantly or raise new equity and/or debt capital. Managementâ€™s plans concerning these matters and managing our liquidity include, among other things:Â Â Â Â â—Reductions in our cash annual operating expenses by approximately $8,000,000 for 2024 across all operating areas, representing a reduction of at least 20% as compared to 2023 levels, including the areas of Research and Development, Sales and Marketing and General and Administrative;â—Implementation of a voluntary Company-wide payroll reduction program for all individuals with optional salary reductions of 10% to 50% depending upon the respective base salary level for the period running from May 1, 2024 to April 30, 2025. The expected cash savings will be approximately $2,100,000 and will result in the issuance of stock awards or stock options, at a rate of 150% or 200%, respectively, of the net cash wage reductions;â—After the impact of payroll reduction program for equity and two major rounds of staff reductions, including another round at the end of June 2024, the Companyâ€™s current weekly gross cash salary costs are now approximately $162,000 versus $263,000 at the beginning of 2024, a decrease of $101,000 per week or 38.4% (or a total of $5,252,000 on an annual basis);â—Right-sizing of operations across all areas of the Company, including head-count hiring freezes or head-count reductions;â—Further reductions in the rate of research and development spending on new technologies, particularly the use of external contractors;â—Delaying or curtailing discretionary and non-essential capital expenditures not related to near-term product and manufacturing needs and reducing other investing activities for our 2024 fiscal year as compared to 2023 and 2022, now that our waveguide manufacturing plant expansion has substantially been completed and the license fees payments under the Atomistic License have been completed; â—The expected margin contribution upon the commencement of volume manufacturing and sales of waveguides from our new waveguide manufacturing plant, particularly to OEM customers;â—Continued pursuit of licensing and strategic opportunities around our waveguide technologies with potential OEMs, which would include the receipt of upfront licensing fees and on-going supply agreements;â—Reduction in the rate of new product introductions and further leveraging of existing platforms to reduce new product development and engineering costs; andâ—Reduction in our existing products selling prices and higher volume discount levels to turn as much of our inventory of finished products into cash and pursue external manufacturers for Vuzix non-waveguide production needs.The Company has historically sold equity securities and currently has a new Registration Statement on Form S-3 that became effective in May 2024, which includes a sales agreement with an investment banking firm for the issuance and sale of up to $50,000,000 of our common stock that may be issued and sold from time to time in an â€œat the marketâ€ offering. Management monitors the capital markets on an ongoing basis and may consider raising capital if favorable market conditions develop. If the Companyâ€™s actual results are less than projected or the Company needs to raise capital for additional liquidity, the Company may be required to pursue additional equity financings, further curtail expenses, or enter into one or more strategic transactions. However, management can make no assurance that the Company will be able to successfully complete any of the forementioned pursuits on terms acceptable to the Company, or at all.â€‹While there can be no assurance the Company will be able to successfully reduce operating expenses or raise additional capital, management believes its historical ability to manage its cash flows and to obtain capital will continue into the foreseeable future. However, as a result of this uncertainty, doubt about the Company continuing as a going concern has not been fully alleviated to the satisfaction of its external auditors as noted in their audit report included with to the Companyâ€™s 10-K filed with the SEC on April 15, 2024. Use of Estimates Use of Estimatesâ€‹The preparation of the consolidated financial statements in conformity with accounting principles generally accepted in the United States requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities atÂ year-end and the reported amounts of revenue and expenses during the reporting period. Actual results could differ from those estimates. Variable Interest Entities Variable Interest Entities The Company determines at the inception of each arrangement whether an entity in which it has made an investment or in which the Company has other variable interests is considered a variable interest entity (VIE). The Company consolidates VIEs when it is the primary beneficiary. The Company is the primary beneficiary of a VIE when it has the power to direct activities that most significantly affect the economic performance of the VIE and have the obligation to absorb the majority of their losses or benefits. If the Company is not the primary beneficiary in a VIE, the Company accounts for the investment or other variable interests in a VIE in accordance with applicable GAAP. At each reporting period, the Company assesses whether any changes in our interest or relationship with the entity affect our determination of whether the entity is a VIE and, if so, whether the Company is the primary beneficiary.We have an investment in a VIE, Atomistic, in which we are not the primary beneficiary. This VIE includes a private company investment, described further in Notes 6 and 7. We have determined that the governance and operating structures of this entity do not allow us to direct the activities that would significantly affect their economic performance. Therefore, we are not the primary beneficiary, and the results of operations and financial position of this VIE are not included in our consolidated financial statements. We had accounted for this investment as a technology license and an equity investment. The maximum exposure of this unconsolidated VIE is generally based on the current carrying value of the investment. We have determined that the single source of our exposure to this VIE was our capital investment in them. The carrying value and maximum exposure of this unconsolidated VIE was $31.8 million as of March 31, 2024; however, as of June 30, 2024, the carrying value of these investments of $30.1 million was written-off due to the termination of the Companyâ€™s exclusive license. Refer to Notes 6 and 7 for further details. Recent Accounting Pronouncements Not Yet Adopted Recent Accounting Pronouncements Not Yet AdoptedIn December 2023, the FASB issued ASU 2023-09 "Income Taxes (Topics 740): Improvements to Income Tax Disclosures" to expand the disclosure requirements for income taxes, specifically related to the rate reconciliation and income taxes paid. ASU 2023-09 is effective for our annual periods beginning January 1, 2025, with early adoption permitted. We are currently evaluating the potential effect that the updated standard will have on our financial statement disclosures.â€‹ X - DefinitionDisclosure of accounting policy for basis of accounting, or basis of presentation, used to prepare the financial statements (for example, US Generally Accepted Accounting Principles, Other Comprehensive Basis of Accounting, IFRS). + ReferencesNo definition available. + Details Name: us-gaap_BasisOfAccountingPolicyPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for consolidation to describe the significant judgments and assumptions made in determining whether a variable interest held by the entity requires the variable interest entity to be consolidated and (or) disclose information about its involvement with the variable interest entity; the methodology used by the entity for determining whether or not it is the primary beneficiary of the variable interest entity; and the significant factors considered and judgments made in determining that the power to direct the activities that significantly impact the economic performance of the variable interest entity are shared (as defined). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 810 -SubTopic 10 -Section 50 -Paragraph 4 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481203/810-10-50-4Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 810 -SubTopic 10 -Section 50 -Paragraph 5A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481203/810-10-50-5AReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 810 -SubTopic 10 -Section 50 -Paragraph 2AA -Subparagraph a -Publisher FASB -URI https://asc.fasb.org//1943274/2147481203/810-10-50-2AA + Details Name: us-gaap_ConsolidationVariableInterestEntityPolicy Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for determining the fair value of financial instruments. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 60 -Paragraph 1 -SubTopic 10 -Topic 820 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482053/820-10-60-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 825 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482907/825-10-50-1 + Details Name: us-gaap_FairValueOfFinancialInstrumentsPolicy Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy pertaining to new accounting pronouncements that may impact the entity's financial reporting. Includes, but is not limited to, quantification of the expected or actual impact. + ReferencesNo definition available. + Details Name: us-gaap_NewAccountingPronouncementsPolicyPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_OrganizationConsolidationAndPresentationOfFinancialStatementsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for the use of estimates in the preparation of financial statements in conformity with generally accepted accounting principles. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482861/275-10-50-9Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482861/275-10-50-4Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482861/275-10-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482861/275-10-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 11 -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482861/275-10-50-11Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 12 -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482861/275-10-50-12Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482861/275-10-50-8 + Details Name: us-gaap_UseOfEstimates Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy regarding customer concentration. + ReferencesNo definition available. + Details Name: vuzi_CustomerConcentrationsPolicyPolicyTextBlock Namespace Prefix: vuzi_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy regarding going concern. + ReferencesNo definition available. + Details Name: vuzi_GoingConcernPolicyPolicyTextBlock Namespace Prefix: vuzi_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 37 R26.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Revenue Recognition and Contracts with Customers (Tables) 6 Months Ended Jun. 30, 2024 Revenue Recognition and Contracts with Customers Â Schedule of company's total revenue by major product lines â€‹â€‹â€‹

Private Corporation Investments (at cost)â€‹â€‹ 650,000â€‹â€‹ 650,000â€‹â€‹â€‹â€‹â€‹â€‹â€‹Software Development Costsâ€‹â€‹ 1,000,000â€‹â€‹ 875,000Additionsâ€‹â€‹ â€”â€‹â€‹ 125,000Less: Accumulated Amortizationâ€‹â€‹ (722,222)â€‹â€‹ (638,889)Software Development Costs, Netâ€‹â€‹ 277,778â€‹â€‹ 361,111â€‹â€‹â€‹â€‹â€‹â€‹â€‹Total Other Assetsâ€‹$ 927,778â€‹$ 1,011,111 X - ReferencesNo definition available. + Details Name: us-gaap_OtherAssetsNoncurrentDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for other non current assets. + ReferencesNo definition available. + Details Name: vuzi_ScheduleOfOtherAssetsNoncurrentTableTextBlock Namespace Prefix: vuzi_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 42 R31.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Accrued Expenses (Tables) 6 Months Ended Jun. 30, 2024 Accrued Expenses Â Schedule of Accrued expenses â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Juneâ€‹30,Â â€‹DecemberÂ 31,Â â€‹Â Â Â 2024Â Â Â 2023â€‹â€‹â€‹â€‹â€‹â€‹â€‹Accrued Wages and Related Costsâ€‹$ 723,432â€‹$ 1,711,707Accrued Professional Servicesâ€‹Â 151,650â€‹Â 362,100Accrued Warranty Obligationsâ€‹Â 131,327â€‹Â 188,249Other Accrued Expensesâ€‹Â â€”â€‹Â 154,387â€‹â€‹â€‹â€‹â€‹â€‹â€‹Totalâ€‹$ 1,006,409â€‹$ 2,416,443 Schedule of changes in accrued warranty obligations â€‹â€‹â€‹â€‹â€‹Accrued Warranty Obligations at DecemberÂ 31,Â 2023â€‹$ 188,249Reductions for Settling Warrantiesâ€‹Â (129,832)Warranties Issued During Periodâ€‹Â 72,910â€‹â€‹â€‹Accrued Warranty Obligations at JuneÂ 30,Â 2024â€‹$ 131,327â€‹ X - ReferencesNo definition available. + Details Name: us-gaap_PayablesAndAccrualsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the components of accrued liabilities. + ReferencesNo definition available. + Details Name: us-gaap_ScheduleOfAccruedLiabilitiesTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the changes in the guarantor's aggregate product warranty liability, including the beginning balance of the aggregate product warranty liability, the aggregate reductions in that liability for payments made (in cash or in kind) under the warranty, the aggregate changes in the liability for accruals related to product warranties issued during the reporting period, the aggregate changes in the liability for accruals related to preexisting warranties (including adjustments related to changes in estimates), and the ending balance of the aggregate product warranty liability. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482425/460-10-50-8 + Details Name: us-gaap_ScheduleOfProductWarrantyLiabilityTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 43 R32.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Stock-Based Compensation (Tables) 6 Months Ended Jun. 30, 2024 Stock-Based Compensation Â Schedule of summary of stock option activity â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹Weightedâ€‹Averageâ€‹â€‹Number ofâ€‹Averageâ€‹â€‹RemainingÂ Lifeâ€‹Â Â Â Â OptionsÂ Â Â Â ExerciseÂ PriceÂ Â Â Â (years)Outstanding at DecemberÂ 31,Â 2023Â 2,911,308â€‹$ 7.60Â 6.30GrantedÂ 2,532,971â€‹Â 1.33Â Â Â ExercisedÂ (10,937)â€‹Â 1.33Â Â Â Expired or ForfeitedÂ (423,365)â€‹Â 7.89Â Â Â â€‹â€‹â€‹â€‹â€‹â€‹â€‹Outstanding at JuneÂ 30,Â 2024Â 5,009,977â€‹$ 4.43Â 7.84 X - ReferencesNo definition available. + Details Name: us-gaap_DisclosureOfCompensationRelatedCostsSharebasedPaymentsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure for stock option plans. Includes, but is not limited to, outstanding awards at beginning and end of year, grants, exercises, forfeitures, and weighted-average grant date fair value. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 2 -Subparagraph (c)(1) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d) -SubTopic 10 -Topic 718 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e) -SubTopic 10 -Topic 718 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ScheduleOfShareBasedCompensationStockOptionsActivityTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 44 R33.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Long-Term Incentive Plan (Tables) 6 Months Ended Jun. 30, 2024 Long-Term Incentive Plan Â Schedule of equity market and operational milestone under the long term â€‹â€‹â€‹Award PotentialCriteria Achievement Weightingâ€‹50% of Options Available35% of Options Available15% of Options AvailableOptions Available(Subject to Vesting)EquityÂ MarketCapitalizationTargetLast Twelve MonthsÂ RevenueTargetLast Twelve Months EBITDA Targetâ€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹â€‹ 680,500$ 2,000,000,000$ 25,000,0000.0% 680,500 3,000,000,000 50,000,0002.0% 680,500 4,000,000,000 100,000,0004.0% 680,500 5,000,000,000 200,000,0006.0% 580,500 6,000,000,000 300,000,0008.0% 580,500 7,000,000,000 450,000,00010.0% 555,500 8,000,000,000 675,000,00012.0% 485,500 9,000,000,000 1,000,000,00014.0% 435,500 10,000,000,000 1,500,000,00016.0% 5,359,500â€‹â€‹â€‹ X - ReferencesNo definition available. + Details Name: us-gaap_CompensationRelatedCostsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of equity market and operational milestone under the long term incentive plan. + ReferencesNo definition available. + Details Name: vuzi_ScheduleOfEquityMarketAndOperationalMilestonesUnderLongTermIncentivePlanTableTextBlock Namespace Prefix: vuzi_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 45 R34.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Right-of-Use Assets and Liabilities (Tables) 6 Months Ended Jun. 30, 2024 Right-of-Use Assets and Liabilities Â Schedule of Future lease payments under operating leases â€‹â€‹â€‹â€‹â€‹2024â€‹$ 279,2622025â€‹Â 511,980Total Future Lease Paymentsâ€‹Â 791,242Less: Imputed Interestâ€‹Â (44,239)Total Lease Liability Balanceâ€‹$ 747,003 X - ReferencesNo definition available. + Details Name: us-gaap_LesseeDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of undiscounted cash flows of lessee's operating lease liability. Includes, but is not limited to, reconciliation of undiscounted cash flows to operating lease liability recognized in statement of financial position. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org//1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityMaturityTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 46 R35.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Basis of Presentation (Details) 3 Months Ended 6 Months Ended 12 Months Ended Jun. 30, 2024 USD ($) customer Jun. 30, 2023 customer Jun. 30, 2024 USD ($) customer Jun. 30, 2023 customer Dec. 31, 2023 USD ($) customer Maximum exposure of unconsolidated VIE $ 31,800,000 Â $ 31,800,000 Â Â Carrying value of unconsolidated VIE 38,234,380 Â 38,234,380 Â $ 86,147,681 VIE Â Â Â Â Â Carrying value of unconsolidated VIE $ 31,800,000 Â 31,800,000 Â Â Investments related to writeoff Â Â $ 30,100,000 Â Â Total revenues | Sales of Engineering Services Â Â Â Â Â Number of customers | customer 1 Â 1 Â Â Total revenues | Sales of Products Â Â Â Â Â Number of customers | customer 4 1 3 2 Â Accounts Receivable Â Â Â Â Â Number of customers | customer Â Â 3 Â 2 One customer | Total revenues | Sales of Engineering Services | Customer Concentration Risk Â Â Â Â Â Concentration Risk, Percentage 86.00% Â 82.00% Â Â One customer | Total revenues | Sales of Products | Customer Concentration Risk Â Â Â Â Â Concentration Risk, Percentage Â 75.00% Â Â Â Two customers | Total revenues | Sales of Products | Customer Concentration Risk Â Â Â Â Â Concentration Risk, Percentage Â Â Â 75.00% Â Two customers | Accounts Receivable | Customer Concentration Risk Â Â Â Â Â Concentration Risk, Percentage Â Â Â Â 73.00% Three customers | Total revenues | Sales of Products | Customer Concentration Risk Â Â Â Â Â Concentration Risk, Percentage Â Â 37.00% Â Â Three customers | Accounts Receivable | Customer Concentration Risk Â Â Â Â Â Concentration Risk, Percentage Â Â 93.00% Â Â Four customers | Total revenues | Sales of Products | Customer Concentration Risk Â Â Â Â Â Concentration Risk, Percentage 60.00% Â Â Â Â X - DefinitionSum of the carrying amounts as of the balance sheet date of all assets that are recognized. Assets are probable future economic benefits obtained or controlled by an entity as a result of past transactions or events. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481203/810-10-50-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481231/810-10-45-25Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481687/323-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482907/825-10-50-28Reference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481372/852-10-55-10Reference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480167/946-830-55-12Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(12)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479440/944-210-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-22Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(8)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479617/946-210-S99-1Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(18)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 13: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 14: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481404/852-10-50-7Reference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-30Reference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-32Reference 26: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(11)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479853/942-210-S99-1 + Details Name: us-gaap_Assets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionFor an entity that discloses a concentration risk in relation to quantitative amount, which serves as the "benchmark" (or denominator) in the equation, this concept represents the concentration percentage derived from the division. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-42Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 825 -SubTopic 10 -Section 50 -Paragraph 21 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482907/825-10-50-21Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 825 -SubTopic 10 -Section 50 -Paragraph 20 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482907/825-10-50-20Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 18 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482861/275-10-50-18Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 20 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482861/275-10-50-20 + Details Name: us-gaap_ConcentrationRiskPercentage1 Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionThe reporting entity's maximum amount of exposure to loss as a result of its involvement with the Variable Interest Entity (VIE). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 810 -SubTopic 10 -Section 50 -Paragraph 4 -Subparagraph b -Publisher FASB -URI https://asc.fasb.org//1943274/2147481203/810-10-50-4Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 810 -SubTopic 10 -Section 50 -Paragraph 6 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481203/810-10-50-6 + Details Name: us-gaap_VariableInterestEntityEntityMaximumLossExposureAmount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionWrite-off of investments during the period. + ReferencesNo definition available. + Details Name: vuzi_InvestmentsWriteOff Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionIt represents number of customers. + ReferencesNo definition available. + Details Name: vuzi_NumbersOfCustomers Namespace Prefix: vuzi_ Data Type: xbrli:integerItemType Balance Type: na Period Type: duration X - Details Name: srt_ConsolidatedEntitiesAxis=us-gaap_VariableInterestEntityNotPrimaryBeneficiaryMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_ConcentrationRiskByBenchmarkAxis=us-gaap_RevenueFromContractWithCustomerMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=us-gaap_EnergyServiceMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=us-gaap_ProductMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_ConcentrationRiskByBenchmarkAxis=us-gaap_AccountsReceivableMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_MajorCustomersAxis=vuzi_OneCustomerMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_ConcentrationRiskByTypeAxis=us-gaap_CustomerConcentrationRiskMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_MajorCustomersAxis=vuzi_TwoCustomersMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_MajorCustomersAxis=vuzi_ThreeCustomersMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_MajorCustomersAxis=vuzi_FourCustomersMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 47 R36.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Basis of Presentation - Going Concern (Details) - USD ($) 1 Months Ended 3 Months Ended 6 Months Ended 12 Months Ended May 06, 2024 Jun. 30, 2024 Jan. 31, 2024 Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Apr. 30, 2025 Dec. 31, 2024 Dec. 31, 2023 Dec. 31, 2022 Net loss Â Â Â $ (40,612,193) $ (9,044,920) $ (50,659,775) $ (19,285,503) Â $ (50,149,077) $ (40,763,573) Net Cash Flows Used in Operating Activities Â Â Â Â Â (14,440,335) (12,085,707) Â Â (26,277,824) (24,521,082) Retained Earnings Accumulated Deficit Â $ (344,644,568) Â $ (344,644,568) Â (344,644,568) Â Â Â (293,984,793) Â Net Cash

Flows Used in Investing Activities Â Â Â Â Â $ (2,234,041) $ (11,440,020) Â Â (19,280,966) (21,170,816) Substantial Doubt about Going Concern, within One Year [true false] Â Â Â Â Â true Â Â Â Â Â Expected cash saving due to payroll reduction program $ 2,100,000 Â Â Â Â Â Â Â Â Â Â Current weekly gross cash salary costs Â $ 162,000 $ 263,000 Â Â Â Â Â Â Â Â Decrease in salary expense per week Â Â $ 101,000 Â Â Â Â Â Â Â Â Annually decrease in salary expense Â Â Â Â Â $ 5,252,000 Â Â Â Â Â Percentage of decrease in salary expense per week Â Â 38.40% Â Â Â Â Â Â Â Â Minimum Â Â Â Â Â Â Â Â Â Â Percentage of optional salary reductions 10.00% Â Â Â Â Â Â Â Â Â Rate of issuance of stock awards or stock options due to salary reduction program 150.00% Â Â Â Â Â Â Â Â Â Maximum Â Â Â Â Â Â Â Â Â Percentage of optional salary reductions 50.00% Â Â Â Â Â Â Â Â Â Rate of issuance of stock awards or stock options due to salary reduction program 200.00% Â Â Â Â Â Â Â Â Â Forecast Â Â Â Â Â Â Â Â Â Decrease in cash annual operating expenses Â Â Â Â Â Â Â Â $ 8,000,000 Â Â Percentage of decrease in cash annual operating expenses Â Â Â Â Â Â Â Â 20.00% Â Â Expected cash saving due to payroll reduction program Â Â Â Â Â Â Â $ 2,100,000 Â Â Â Estimated total common stock value to be issued and sold Â Â Â Â Â Â Â Â $ 50,000,000 Â Â Forecast | Minimum Â Â Â Â Â Â Â Â Â Percentage of optional salary reductions Â Â Â Â Â Â 10.00% Â Â Rate of issuance of stock awards or stock options due to salary reduction program Â Â Â Â Â Â 150.00% Â Â Â Forecast | Maximum Â Â Â Â Â Â Â Â Â Â Percentage of optional salary reductions Â Â Â Â Â Â 50.00% Â Â Â Rate of issuance of stock awards or stock options due to salary reduction program Â Â Â Â Â Â 200.00% Â Â Â Atomistic SAS | Atomistic agreement Â Â Â Â Â Â Â Â Â Payments for investment to Atomistic Â Â Â Â Â Â Â Â Â $ 32,500,000 $ 32,500,000 X - DefinitionAmount of cash inflow (outflow) from investing activities, including discontinued operations. Investing activity cash flows include making and collecting loans and acquiring and disposing of debt or equity instruments and property, plant, and equipment and other productive assets. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-24 + Details Name: us-gaap_NetCashProvidedByUsedInInvestingActivities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of cash inflow (outflow) from operating activities, including discontinued operations. Operating activity cash flows include transactions, adjustments, and changes in value not defined as investing or financing activities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-25 + Details Name: us-gaap_NetCashProvidedByUsedInOperatingActivities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: na Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481687/323-10-50-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482907/825-10-50-28Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482765/220-10-50-6Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480175/815-40-65-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-8Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-9Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-11Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-11Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483443/250-10-50-4Reference 13: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480167/946-830-55-10Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483581/946-220-45-7Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483586/944-220-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-22Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483575/946-220-S99-1Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 20: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-30Reference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-32Reference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482689/260-10-45-60BReference 32: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-31Reference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-32Reference 34: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483499/205-20-50-7Reference 35: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-28Reference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482790/220-10-45-1AReference 37: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482790/220-10-45-1BReference 38: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2Reference 39: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483589/942-220-S99-1 + Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of accumulated undistributed earnings (deficit). + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(2)(i) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480016/944-40-65-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480016/944-40-65-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480990/946-20-50-11Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(23)(a)(4)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479440/944-210-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(17)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479617/946-210-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480008/505-10-S99-1Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(3)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_RetainedEarningsAccumulatedDeficit Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionIndicates (true false) whether there was substantial doubt about ability to continue as going concern within one year after date financial statements are issued. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 13 -SubTopic 40 -Topic 205 -Publisher FASB -URI https://asc.fasb.org//1943274/2147479710/205-40-50-13 + Details Name: us-gaap_SubstantialDoubtAboutGoingConcernWithinOneYear Namespace Prefix: us-gaap_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionDecrease in cash annual operating expenses. + ReferencesNo definition available. + Details Name: vuzi_DecreaseInCashAnnualOperatingExpenses Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of decrease in weekly salary expense post payroll reduction program. + ReferencesNo definition available. + Details Name: vuzi_DecreaseInSalaryExpensePerWeek Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of decrease in salary expense post payroll reduction program annually. + ReferencesNo definition available. + Details Name: vuzi_DecreaseInSalaryExpensePerYear Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionEstimated total common stock value may be issued and sold. + ReferencesNo definition available. + Details Name: vuzi_EstimatedTotalCommonStockValueToBeSold Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionExpected cash saving due to payroll reduction program. + ReferencesNo definition available. + Details Name: vuzi_ExpectedCashSavingDueToPayrollReductionProgram Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash outflow associated with payments to invest to technology license and equity investment in microLED technology during the period. + ReferencesNo definition available. + Details Name: vuzi_PaymentsForInvestmentInTechnologyLicenseAndEquityInvestmentInMicroledTechnology Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionPercentage of decrease in cash annual operating expenses. + ReferencesNo definition available. + Details Name: vuzi_PercentageOfDecreaseInCashAnnualOperatingExpenses Namespace Prefix: vuzi_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionPercentage of decrease in weekly salary expense post payroll reduction program. + ReferencesNo definition available. + Details Name: vuzi_PercentageOfDecreaseInSalaryExpensePerWeek Namespace Prefix: vuzi_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionPercentage of optional salary reductions. + ReferencesNo definition available. + Details Name: vuzi_PercentageOfOptionalSalaryReductions Namespace Prefix: vuzi_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionRate of issuance of stock awards or stock options due to salary reduction program. + ReferencesNo definition available. + Details Name: vuzi_RateOfIssuanceOfStockAwardsOrStockOptionsDueToSalaryReductionProgram Namespace Prefix: vuzi_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionAmount of salary expense incurred per week post payroll reduction program. + ReferencesNo definition available. + Details Name: vuzi_SalaryExpensePerWeek Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementScenarioAxis=srt_ScenarioForecastMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_CounterpartyNameAxis=vuzi_AtomisticSasMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_TypeOfArrangementAxis=vuzi_AtomisticAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 48 R37.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Revenue Recognition and Contracts with Customers - Company's total revenue by major product lines (Details) 3 Months Ended 6 Months Ended Jun. 30, 2024 USD ($) product Jun. 30, 2023 USD ($) Jun. 30, 2024 USD ($) product Jun. 30, 2023 USD ($) Number of major product lines | product 2 Â 2 Â Revenue $ 1,092,571 $ 4,690,835 $ 3,096,438 $ 8,882,196 Products Sales Â Â Â Â Revenue 601,263 4,425,162 2,430,336 8,616,523 Engineering Services Â Â Â Â Revenue $ 491,308 $ 265,673 $ 666,102 $ 265,673 X - DefinitionAmount of revenue recognized from goods sold, services rendered, insurance premiums, or other activities that constitute an earning process. Includes, but is not limited to, investment and interest income before deduction of interest expense when recognized as a component of revenue, and sales and trading gain (loss). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name

Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481687/323-10-50-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482907/825-10-50-28Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(1)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1AReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1BReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-30Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-42Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-22Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-32Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-40Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-22Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-32Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482810/280-10-50-41Reference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 235 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-05(b)(2)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479557/942-235-S99-1 + Details Name: us-gaap_Revenues Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionRepresents the number of Number of major product lines. + ReferencesNo definition available. + Details Name: vuzi_NumberOfMajorProductLines Namespace Prefix: vuzi_ Data Type: xbrli:integerItemType Balance Type: na Period Type: instant X - Details Name: vuzi_ProductOrServiceAxisAxis=vuzi_SmartGlassesAndIWearVideoHeadphonesSalesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: vuzi_ProductOrServiceAxisAxis=vuzi_EngineeringServicesMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 49 R38.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Revenue Recognition and Contracts with Customers - Company's net sales as a percentage (Details) 3 Months Ended 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Revenue performance obligation percentage 100.00% 100.00% 100.00% 100.00% Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]: 2024-07-01 Â Â Â Â Revenue, Remaining Performance Obligation, Percentage 18.00% Â 18.00% Â Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Period 6 months Â 6 months Â Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]: 2025-01-01 Â Â Â Â Revenue, Remaining Performance Obligation, Percentage 82.00% Â 82.00% Â Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Period 1 year Â 1 year Â Point-in-Time Â Â Â Â Revenue performance obligation percentage 55.00% 94.00% 78.00% 97.00% Over Time - Input Method Â Â Â Â Revenue performance obligation percentage 45.00% 6.00% 22.00% 3.00% X - DefinitionPeriod in which remaining performance obligation is expected to be recognized as revenue, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b)(1) -SubTopic 10 -Topic 606 -Publisher FASB -URI https://asc.fasb.org//1943274/2147479806/606-10-50-13 + Details Name: us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionPeriod1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: instant X - DefinitionPercentage of remaining performance obligation to total remaining performance obligation not recognized as revenue. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b)(1) -SubTopic 10 -Topic 606 -Publisher FASB -URI https://asc.fasb.org//1943274/2147479806/606-10-50-13 + Details Name: us-gaap_RevenueRemainingPerformanceObligationPercentage Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - DefinitionIt represents the percentage rate of revenue performance obligation. + ReferencesNo definition available. + Details Name: vuzi_RevenuePerformanceObligationPercentage Namespace Prefix: vuzi_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionStartDateAxis=2024-07-01 Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionStartDateAxis=2025-01-01 Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: vuzi_RevenuePerformanceObligationRecognitionMethodAxis=vuzi_PointInTimeMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: vuzi_RevenuePerformanceObligationRecognitionMethodAxis=vuzi_OverTimeInputMethodMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 50 R39.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Revenue Recognition and Contracts with Customers - Additional Information (Details) - USD ($) 6 Months Ended Jun. 30, 2024 Dec. 31, 2023 Jun. 30, 2023 Standard product warranty term 12 months Â Â Revenue, remaining performance obligations $ 2,359,904 Â $ 80,000 Revenue, performance obligation, total transaction price 3,500,000 Â $ 800,000 Accrued Revenues in Excess of Billings $ 290,096 $ 165,771 Â Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]: 2024-07-01 Â Â Â Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Period 6 months Â Â Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]: 2025-01-01 Â Â Â Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Period 1 year Â Â Extended warranties Â Â Â Standard product warranty term 12 months Â Â Revenue, remaining performance obligations $ 0 $ 0 Â OEM products and waveguide sales Â Â Â Standard product warranty term 18 months Â Â X - DefinitionAmount of transaction price allocated to performance obligation that has not been recognized as revenue. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -SubTopic 10 -Topic 606 -Publisher FASB -URI https://asc.fasb.org//1943274/2147479806/606-10-50-13 + Details Name: us-gaap_RevenueRemainingPerformanceObligation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPeriod in which remaining performance obligation is expected to be recognized as revenue, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b)(1) -SubTopic 10 -Topic 606 -Publisher FASB -URI https://asc.fasb.org//1943274/2147479806/606-10-50-13 + Details Name: us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionPeriod1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: instant X - DefinitionAmount of accrued revenues in excess of billings. + ReferencesNo definition available. + Details Name: vuzi_AccruedRevenuesInExcessOfBillings Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of total transaction price of performance obligation. + ReferencesNo definition available. + Details Name: vuzi_RevenuePerformanceObligationTotalTransactionPrice Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionRepresents information pertaining to standard product warranty. + ReferencesNo definition available. + Details Name: vuzi_StandardProductWarrantyTerm Namespace Prefix: vuzi_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionStartDateAxis=2024-07-01 Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionStartDateAxis=2025-01-01 Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=vuzi_ExtendedWarrantiesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=vuzi_OemProductAndWaveguideSalesMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 51 R40.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Loss Per Share - Additional Information (Details) - shares 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Loss Per Share Â Â Anti-dilutive shares 10,744,477 8,658,642 X - DefinitionSecurities (including those issuable pursuant to contingent stock agreements) that could potentially dilute basic earnings per share (EPS) or earnings per unit (EPU) in the future that were not included in the computation of diluted EPS or EPU because to do so would increase EPS or EPU amounts or decrease loss per share or unit amounts for the period presented. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482662/260-10-50-1 + Details Name: us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareAmount Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_EarningsPerShareAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 52 R41.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Inventories, Net - Components of Inventories (Detail) - USD ($) Jun. 30, 2024 Dec. 31, 2023 Inventories, Net Â Â Purchased Parts and Components $ 10,876,973 $ 9,500,415 Work-in-Process 291,432 394,923 Finished Goods 5,044,284 4,880,643 Less: Reserve for Obsolescence (5,974,526) (5,775,551) Inventories, Net $ 10,238,163 $ 9,000,430 X - ReferencesNo definition available. + Details Name: us-gaap_InventoryDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount before valuation and LIFO reserves of completed merchandise or goods expected to be sold within one year or operating cycle, if longer. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(a)(1)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_InventoryFinishedGoods Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount after valuation and LIFO reserves of inventory expected to be sold, or consumed within one year or operating cycle, if longer. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483467/210-10-45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_InventoryNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionGross amount of unprocessed materials to be used in manufacturing or production process and supplies that will be consumed. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_InventoryRawMaterialsAndSupplies Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of valuation reserve for inventory. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 330 -SubTopic 10 -Section S99 -Paragraph 2 -Subparagraph (SAB TOPIC 5.BB) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480581/330-10-S99-2 + Details Name: us-gaap_InventoryValuationReserves Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount before valuation and LIFO reserves of merchandise or goods in the production process expected to be completed within one year or operating cycle, if longer. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(a)(3)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_InventoryWorkInProcess Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant XML 53 R42.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Fixed Assets - Schedule of Fixed Assets (Details) - USD ($) 3 Months Ended 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Dec. 31, 2023 Property, Plant and Equipment Â Â Â Â Fixed Assets, Gross $ 15,535,990 Â $ 15,535,990 Â $ 15,370,585 Less: Accumulated Depreciation (7,347,127) Â (7,347,127) Â (7,297,755) Fixed Assets, Net 8,188,863 Â 8,188,863 Â 8,072,830 Fixed assets not yet placed in service 965,000 Â 965,000 Â 588,000 Depreciation expense 231,222 $ 111,934 522,042 $ 214,385 Â Tooling and Manufacturing Equipment Â Â Â Â Â Property, Plant and Equipment Â Â Â Â Â Fixed Assets, Gross 9,585,842 Â 9,585,842 Â 8,793,192 Leaseholds Â Â Â Â Â Property, Plant and Equipment Â Â Â Â Â Fixed Assets, Gross 2,839,164 Â 2,839,164 Â 3,162,695 Computers and Purchased Software Â Â Â Â Â Property, Plant and Equipment Â Â Â Â Â Fixed Assets, Gross 679,138 Â 679,138 Â 833,794 Furniture and Equipment Â Â Â Â Â Property, Plant and Equipment Â Â Â Â Â Fixed Assets, Gross $ 2,431,846 Â $ 2,431,846 Â $ 2,580,904 X - DefinitionAmount of accumulated depreciation, depletion and amortization for physical assets used in the normal conduct of business to produce goods and services. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)(b)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479440/944-210-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(14)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 360 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482099/360-10-50-1 + Details Name: us-gaap_AccumulatedDepreciationDepletionAndAmortizationPropertyPlantAndEquipment Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionThe amount of expense recognized in the current period that reflects the allocation of the cost of tangible assets over the assets' useful lives. Includes production and non-production related depreciation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-28Reference 2:

http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 360 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482099/360-10-50-1 + Details Name: us-gaap_Depreciation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount before accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479440/944-210-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(13)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482099/360-10-50-1 + Details Name: us-gaap_PropertyPlantAndEquipmentGross Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_PropertyPlantAndEquipmentLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482099/360-10-50-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481372/852-10-55-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479440/944-210-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 360 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480842/942-360-50-1 + Details Name: us-gaap_PropertyPlantAndEquipmentNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of fixed assets purchased but not used in the normal conduct of business to produce goods and services and not intended for resale. + ReferencesNo definition available. + Details Name: vuzi_PropertyPlantAndEquipmentNotPlacedInService Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis=vuzi_ToolingAndManufacturingEquipmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis=us-gaap_LeaseholdImprovementsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis=us-gaap_ComputerSoftwareIntangibleAssetMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis=vuzi_FurnitureAndEquipmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 54 R43.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Technology Licenses, Net (Details) - USD ($) Jun. 30, 2024 Dec. 31, 2023 Licenses Net [Line Items] Â Â Licenses, Net $ 861,578 $ 26,851,001 Licensing agreements Â Â Licenses Net [Line Items] Â Â Licenses 32,443,356 32,443,356 Write Offs (30,000,000) Â Less: Accumulated Amortization (1,581,778) (5,592,355) Licenses, Net $ 861,578 $ 26,851,001 X - DefinitionAccumulated amount of amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(16)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482665/350-30-50-2 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAccumulatedAmortization Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount before amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 928 -SubTopic 340 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483147/928-340-50-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482665/350-30-50-2 + Details Name: us-gaap_FiniteLivedIntangibleAssetsGross Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionThe amount of write-down from the carrying value of a finite-lived intangible asset. + ReferencesNo definition available. + Details Name: vuzi_FiniteLivedIntangibleAssetsWriteOff Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of finite lived license agreements, noncurrent. + ReferencesNo definition available. + Details Name: vuzi_FiniteLivedLicenseAgreementsNoncurrent Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionLicenses Net [Line Items] + ReferencesNo definition available. + Details Name: vuzi_LicensesNetLineItems Namespace Prefix: vuzi_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis=us-gaap_LicensingAgreementsMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 55 R44.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Technology Licenses, Net - Additional Information (Details) - Licensing agreements - USD ($) 3 Months Ended 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Licenses Net Â Â Â Â Amortization Expense $ 835,542 $ 826,984 $ 1,653,876 $ 1,653,868 Annual amortization expense (Year1) 201,000 Â 201,000 Â Annual amortization expense (Year2) 201,000 Â 201,000 Â Annual amortization expense (Year3) 201,000 Â 201,000 Â Annual amortization expense (Year4) 201,000 Â 201,000 Â Annual amortization expense (Year5) 201,000 Â 201,000 Â Net book value $ 24,335,554 Â $ 24,335,554 Â X - DefinitionThe aggregate expense charged against earnings to allocate the cost of intangible assets (nonphysical assets not used in production) in a systematic and rational manner to the periods expected to benefit from such assets. As a noncash expense, this element is added back to net income when calculating cash provided by or used in operations using the indirect method. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 350 -SubTopic 30 -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482686/350-30-45-2Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 350 -SubTopic 30 -Section 50 -Paragraph 2 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482665/350-30-50-2 + Details Name: us-gaap_AmortizationOfIntangibleAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482665/350-30-50-2 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseNextTwelveMonths Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fifth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482665/350-30-50-2 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearFive Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fourth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482665/350-30-50-2 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearFour Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482665/350-30-50-2 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearThree Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482665/350-30-50-2 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearTwo Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionLicenses Net [Line Items] + ReferencesNo definition available. + Details Name: vuzi_LicensesNetLineItems Namespace Prefix: vuzi_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionNet book value as of the balance sheet date of finite lived intangible assets impaired by the company. + ReferencesNo definition available. + Details Name: vuzi_NetBookValueOfFiniteLivedIntangibleAssetsImpaired Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - Details Name: us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis=us-gaap_LicensingAgreementsMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 56 R45.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Investment in Atomistic (Details) 6 Months Ended Jun. 30, 2024 USD ($) Equity Securities without Readily Determinable Fair Value [Line Items] Â Impairment charges on investment $ 5,664,446 Atomistic SAS Â Equity Securities without Readily Determinable Fair Value [Line Items] Â Preferential Allocation 49.00% X - DefinitionAmount of impairment loss on investment in equity security without readily determinable fair value. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 321 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479536/321-10-50-3 + Details Name: us-gaap_EquitySecuritiesWithoutReadilyDeterminableFairValueImpairmentLossAnnualAmount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 321 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479536/321-10-50-3Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 321 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479536/321-10-50-3Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 321 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479536/321-10-50-3 + Details Name: us-gaap_EquitySecuritiesWithoutReadilyDeterminableFairValueLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe percentage of preferential allocation of the distributable amounts to the company, in the event of liquidation event. + ReferencesNo definition available. + Details Name: vuzi_PreferentialAllocationOfAmountsOnLiquidationPercentage Namespace Prefix: vuzi_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - Details Name: srt_OwnershipAxis=vuzi_AtomisticSasMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 57 R46.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Other Assets (Details) - USD ($) 6 Months Ended 12 Months Ended Jun. 30, 2024 Dec. 31, 2023 Private Corporation Investments $ 650,000 $ 450,000 Additions Â 200,000 Total Private Corporation Investments (at cost) 650,000 650,000 Additions 8,188,863 8,072,830 Total Other Assets 927,778 1,011,111 Software Development Â Â Software Development Costs 1,000,000 875,000 Additions Â 125,000 Less: Accumulated Amortization (722,222) (638,889) Software Development Costs, Net $ 277,778 $ 361,111 X - DefinitionThe capitalized costs incurred during the period (excluded from amortization) to obtain access to proved reserves and to provide facilities for extracting, treating, gathering and storing the oil and gas. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 932 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-10(c)(7)(ii)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479664/932-10-S99-1 + Details Name: us-gaap_DevelopmentCosts Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAccumulated amount of amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(16)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482665/350-30-50-2 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAccumulatedAmortization Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of noncurrent assets classified as other. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(17)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_OtherAssetsNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482099/360-10-50-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481372/852-10-55-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479440/944-210-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 360 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480842/942-360-50-1 + Details Name: us-gaap_PropertyPlantAndEquipmentNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionThe amount of Development Costs, Net. + ReferencesNo definition available. + Details Name: vuzi_DevelopmentCostsNet Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionThe amount of non current assets relating to private corporation. + ReferencesNo definition available. + Details Name: vuzi_PrivateCorporationAssetsNonCurrent Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionThe amount of private corporation investments, additions. + ReferencesNo definition available. + Details Name: vuzi_PrivateCorporationInvestmentsAdditions Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe amount of private corporation investments, gross. + ReferencesNo definition available. + Details Name: vuzi_PrivateCorporationInvestmentsGross Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis=us-gaap_SoftwareDevelopmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 58 R47.htm IDEA: XBRL DOCUMENT

v3.24.2.u1 Other Assets - Additional Information (Details) - USD ($) 3 Months Ended 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Dec. 31, 2023 Dec. 31, 2021 Software Development Â Â Â Â Â Â Other assets Â Â Â Â Â Â Amortization of Intangible Assets $ 41,668 $ 83,333 $ 83,333 $ 138,889 Â Â Private Corporation Â Â Â Â Â Â Other assets Â Â Â Â Â Â Purchase price Â Â Â Â Â $ 100,000 $ 200,000 Ownership interest Â Â Â Â Â 2.00% 3.00% UK Based Public Company Â Â Â Â Â Â Other assets Â Â Â Â Â Â Purchase price Â $ 100,000 Â $ 100,000 Â Â Â UK Based Public Company | Maximum Â Â Â Â Â Â Other assets Â Â Â Â Â Â Ownership interest Â 1.00% Â 1.00% Â Â X - DefinitionThe aggregate expense charged against earnings to allocate the cost of intangible assets (nonphysical assets not used in production) in a systematic and rational manner to the periods expected to benefit from such assets. As a noncash expense, this element is added back to net income when calculating cash provided by or used in operations using the indirect method. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 350 -SubTopic 30 -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482686/350-30-45-2Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 350 -SubTopic 30 -Section 50 -Paragraph 2 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482665/350-30-50-2 + Details Name: us-gaap_AmortizationOfIntangibleAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe percentage of ownership of common stock or equity participation in the investee accounted for under the equity method of accounting. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481687/323-10-50-3 + Details Name: us-gaap_EquityMethodInvestmentOwnershipPercentage Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - ReferencesNo definition available. + Details Name: vuzi_OtherAssetsLineItems Namespace Prefix: vuzi_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of purchasing business consideration. + ReferencesNo definition available. + Details Name: vuzi_PurchasePrice Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis=us-gaap_SoftwareDevelopmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ScheduleOfEquityMethodInvestmentEquityMethodInvesteeNameAxis=vuzi_PrivateCorporationMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ScheduleOfEquityMethodInvestmentEquityMethodInvesteeNameAxis=vuzi_UkBasedPublicCompanyMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 59 R48.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Accrued Expenses - Components of Accrued Expenses (Details) - USD ($) Jun. 30, 2024 Dec. 31, 2023 Accrued Expenses Â Â Accrued Wages and Related Costs $ 723,432 $ 1,711,707 Accrued Professional Services 151,650 362,100 Accrued Warranty Obligations 131,327 188,249 Other Accrued Expenses Â 154,387 Total $ 1,006,409 $ 2,416,443 X - DefinitionCarrying value as of the balance sheet date of obligations, excluding pension and other postretirement benefits, incurred through that date and payable for perquisites provided to employees pertaining to services received from them. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 210 -SubTopic 10 -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02.20) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_AccruedEmployeeBenefitsCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionCarrying value as of the balance sheet date of obligations incurred and payable, pertaining to costs that are statutory in nature, are incurred on contractual obligations, or accumulate over time and for which invoices have not yet been received or will not be rendered. Examples include taxes, interest, rent and utilities. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 210 -SubTopic 10 -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02.20) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_AccruedLiabilitiesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionCarrying value as of the balance sheet date of obligations incurred through that date and payable for professional fees, such as for legal and accounting services received. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 210 -SubTopic 10 -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02.20) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_AccruedProfessionalFeesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of expenses incurred but not yet paid classified as other, due within one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 210 -SubTopic 10 -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02.20) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_OtherAccruedLiabilitiesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_PayablesAndAccrualsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionCarrying value as of the balance sheet date of obligations incurred through that date and payable for estimated claims under standard and extended warranty protection rights granted to customers. For classified balance sheets, represents the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (c)(1) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482425/460-10-50-8Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (c)(5) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482425/460-10-50-8Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 210 -SubTopic 10 -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02.20) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_ProductWarrantyAccrualClassifiedCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant XML 60 R49.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Accrued Expenses - Additional Information (Details) 6 Months Ended Jun. 30, 2024 USD ($) Accrued Expenses Â Severance costs $ 410,251 Standard product warranty term 12 months Extended product warranty term 12 months X - ReferencesNo definition available. + Details Name: us-gaap_PayablesAndAccrualsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of expenses for special or contractual termination benefits provided to current employees involuntarily terminated under a benefit arrangement associated exit or disposal activities pursuant to an authorized plan. Excludes expenses related to one-time termination benefits, a discontinued operation or an asset retirement obligation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-28 + Details Name: us-gaap_SeveranceCosts1 Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionRepresents the information pertaining to extended product warranty term. + ReferencesNo definition available. + Details Name: vuzi_ExtendedProductWarrantyTerm Namespace Prefix: vuzi_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionRepresents information pertaining to standard product warranty. + ReferencesNo definition available. + Details Name: vuzi_StandardProductWarrantyTerm Namespace Prefix: vuzi_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration XML 61 R50.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Accrued Expenses - Changes in Accrued Warranty Obligations (Details) 6 Months Ended Jun. 30, 2024 USD ($) Accrued Expenses Â Accrued Warranty Obligations at December 31, 2023 $ 188,249 Reductions for Settling Warranties (129,832) Warranties Issued During Period 72,910 Accrued Warranty Obligations at June 30, 2024 $ 131,327 X - ReferencesNo definition available. + Details Name: us-gaap_PayablesAndAccrualsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionCarrying value as of the balance sheet date of obligations incurred through that date and payable for estimated claims under standard and extended warranty protection rights granted to customers. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482425/460-10-50-4Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (c)(1) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482425/460-10-50-8Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (c)(5) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482425/460-10-50-8Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 942 -SubTopic 210 -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03.15(5)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479853/942-210-S99-1 + Details Name: us-gaap_ProductWarrantyAccrual Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of decrease in the standard and extended product warranty accrual from payments made in cash or in kind to satisfy claims under the terms of the standard and extended product warranty. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (c)(2) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482425/460-10-50-8 + Details Name: us-gaap_ProductWarrantyAccrualPayments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of increase in the standard and extended product warranty accrual from warranties issued. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (c)(3) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482425/460-10-50-8 + Details Name: us-gaap_ProductWarrantyAccrualWarrantiesIssued Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration XML 62 R51.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Capital Stock (Details) - USD ($) 6 Months Ended May 06, 2024 Nov. 20, 2023 May 12, 2022 Mar. 02, 2022 Jun. 30, 2023 Jun. 30, 2024 Dec. 31, 2023 Preferred stock, shares authorized Â Â Â Â Â 5,000,000 5,000,000 Preferred stock, par value Â Â Â Â Â $ 0.001 $ 0.001 Common stock, shares authorized Â Â Â Â Â 100,000,000 100,000,000 Common stock, par value Â Â Â Â Â $ 0.001 $ 0.001 Common stock, shares issued Â Â Â Â Â 66,034,769 65,304,780 Common stock, shares outstanding Â Â Â Â Â 65,455,097 64,725,108 Expected cash saving due to payroll reduction program $ 2,100,000 Â Â Â Â Â Â Fair market value of stock awards $ 1.33 Â Â Â Â Â Â Stock awards issued 824,711 Â Â Â Â Â Â Stock option awards issued 2,756,116 Â Â Â Â Â Â Fair market value of stock option awards $ 0.99 Â Â Â Â Â Aggregate value of shares authorized Â Â Â $ 25,000,000 Â Â Â Share repurchase program term Â Â Â 1 year Â Â Â Purchases of treasury stock (in shares) Â Â Â Â 115,000 Â Â Average cost Â Â Â Â $ 4.06 Â Â Commission cost per share Â Â Â Â $ 0.03 Â Â Common shares held in treasury Â Â Â Â Â 579,672 579,672 Equity bonus (as a percent) Â Â 15.00% Â Â Â Â Atomistic SAS Â Â Â Â Â Â Ownership percent Â 100.00% Â Â Â Â Â Atomistic agreement Â Â Â Â Â Â Stock Issued under Atomistic Stock Purchase Agreement (Shares) Â 1,397,500 Â Â Â Â Â Period for equity bonus Â Â 5 years Â Â Â Threshold market valuation Â Â $ 3,500,000,000 Â Â Â Â Share commitments issued to date Â Â 0 Â Â Â Â Minimum Â Â Â Â Â Â Percentage of optional salary reductions 10.00% Â Â Â Â Â Â Rate of issuance of stock awards or stock options due to salary reduction program 150.00% Â Â Â Â Â Â Minimum | Atomistic agreement Â Â Â Â Â Â Issuance of shares, performance milestones (in shares) Â 890,000 Â Â Â Â Â Issuance of shares on exceeding valuation target (in shares) Â Â 291,346 Â Â Â Â Maximum Â Â Â Â Â Â Percentage of optional salary reductions 50.00% Â Â Â Â Â Â Rate of issuance of stock awards or stock options due to salary reduction program 200.00% Â Â Â Â Â Â Maximum | Atomistic agreement Â Â Â Â Â Â Issuance of shares, performance milestones (in shares) Â 1,446,250 Â Â Â Â Â Issuance of shares on exceeding valuation target (in shares) Â Â 473,438 Â Â Â Â Series A Preferred Stock Â Â Â Â Â Â Preferred stock, shares authorized Â Â Â Â Â 49,626 49,626 Preferred stock, shares issued Â Â Â Â Â 0 0 Preferred stock, shares outstanding Â Â Â Â Â 0 0 X - DefinitionFace amount or stated value per share of common stock. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_CommonStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionThe maximum number of common shares permitted to be issued by an entity's charter and bylaws. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479617/946-210-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_CommonStockSharesAuthorized Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionTotal number of common shares of an entity that have been sold or granted to shareholders (includes common shares that were issued, repurchased and remain in the treasury). These shares represent capital invested by the firm's shareholders and owners, and may be all or only a portion of the number of shares authorized. Shares issued include shares outstanding and shares held in the treasury. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_CommonStockSharesIssued Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionNumber of shares of common stock outstanding. Common stock represent the ownership interest in a corporation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481112/505-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479617/946-210-S99-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479617/946-210-S99-1Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_CommonStockSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionThe parent entity's interest in net assets of the subsidiary, expressed as a percentage. + ReferencesNo definition available. + Details Name: us-gaap_MinorityInterestOwnershipPercentageByParent Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - DefinitionFace amount or stated value per share of preferred stock nonredeemable or redeemable solely at the option of the issuer. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481112/505-10-50-13Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_PreferredStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionThe maximum number of nonredeemable preferred shares (or preferred stock redeemable solely at the option of the issuer) permitted to be issued by an entity's charter and bylaws. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479617/946-210-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_PreferredStockSharesAuthorized Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionTotal number of nonredeemable preferred shares (or preferred stock

redeemable solely at the option of the issuer) issued to shareholders (includes related preferred shares that were issued, repurchased, and remain in the treasury). May be all or portion of the number of preferred shares authorized. Excludes preferred shares that are classified as debt. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org//1943274/2147481112/505-10-50-13Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_PreferredStockSharesIssued Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionAggregate share number for all nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer) held by stockholders. Does not include preferred shares that have been repurchased. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479617/946-210-S99-2Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479617/946-210-S99-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_PreferredStockSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionThe number of grants made during the period on other than stock (or unit) option plans (for example, phantom stock or unit plan, stock or unit appreciation rights plan, performance target plan). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(01) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsGrantsInPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionPer share or unit weighted-average fair value of nonvested award under share-based payment arrangement. Excludes share and unit options. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(i) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(ii) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsNonvestedWeightedAverageGrantDateFairValue Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionGross number of share options (or share units) granted during the period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(01) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriodGross Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionThe weighted average grant-date fair value of options granted during the reporting period as calculated by applying the disclosed option pricing methodology. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(1) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriodWeightedAverageGrantDateFairValue Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionAmount of stock repurchase plan authorized. + ReferencesNo definition available. + Details Name: us-gaap_StockRepurchaseProgramAuthorizedAmount1 Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionTotal cost of shares repurchased divided by the total number of shares repurchased. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481549/505-30-45-1 + Details Name: us-gaap_TreasuryStockAcquiredAverageCostPerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionNumber of previously issued common shares repurchased by the issuing entity and held in treasury. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481549/505-30-45-1 + Details Name: us-gaap_TreasuryStockCommonShares Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionNumber of shares that have been repurchased during the period and are being held in treasury. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480008/505-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_TreasuryStockSharesAcquired Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionThe period within which equity bonus agreed to be paid from commencement of agreement. + ReferencesNo definition available. + Details Name: vuzi_CollaborationArrangementEquityBonusPeriodFromCommencementOfAgreement Namespace Prefix: vuzi_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionTh percent of equity bonus to be issued. + ReferencesNo definition available. + Details Name: vuzi_CollaborationArrangementPercentOfEquityBonus Namespace Prefix: vuzi_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionNumber of commitments shares issued to date in a collaboration arrangement. + ReferencesNo definition available. + Details Name: vuzi_CollaborationArrangementShareCommitmentsIssued Namespace Prefix: vuzi_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of shares issuable upon achievement of performance milestones in a collaboration arrangement. + ReferencesNo definition available. + Details Name: vuzi_CollaborationArrangementSharesIssuableBasedOnPerformanceMilestones Namespace Prefix: vuzi_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of shares issuable upon exceeding valuation target in collaboration arrangement. + ReferencesNo definition available. + Details Name: vuzi_CollaborationArrangementSharesIssuableOnExceedingValuationTarget Namespace Prefix: vuzi_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionThe threshold amount of market valuation. + ReferencesNo definition available. + Details Name: vuzi_CollaborationArrangementThresholdMarketValuation Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionExpected cash saving due to payroll reduction program. + ReferencesNo definition available. + Details Name: vuzi_ExpectedCashSavingDueToPayrollReductionProgram Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionPercentage of optional salary reductions. + ReferencesNo definition available. + Details Name: vuzi_PercentageOfOptionalSalaryReductions Namespace Prefix: vuzi_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionRate of issuance of stock awards or stock options due to salary reduction program. + ReferencesNo definition available. + Details Name: vuzi_RateOfIssuanceOfStockAwardsOrStockOptionsDueToSalaryReductionProgram Namespace Prefix: vuzi_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionTerm of share repurchase program. + ReferencesNo definition available. + Details Name: vuzi_ShareRepurchaseProgramTerm Namespace Prefix: vuzi_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionNumber of shares of stock issued during the period under Atomistic Stock Purchase Agreement. + ReferencesNo definition available. + Details Name: vuzi_StockIssuedDuringPeriodSharesUnderAtomisticStockPurchaseAgreement Namespace Prefix: vuzi_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionTotal commission cost of shares repurchased divided by the total number of shares repurchased. + ReferencesNo definition available. + Details Name: vuzi_TreasuryStockAcquiredAverageCommissionCostPerShare Namespace Prefix: vuzi_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - Details Name: srt_OwnershipAxis=vuzi_AtomisticSasMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_TypeOfArrangementAxis=vuzi_AtomisticAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=us-gaap_SeriesAPreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 63 R52.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Stock-Based Compensation - Summary of Stock Option Activity (Details) - Employee Stock Option - $ / shares 6 Months Ended 12 Months Ended Jun. 30, 2024 Dec. 31, 2023 Number of Options Â Â Outstanding, Beginning Balance 2,911,308 Â Granted 2,532,971 Â Exercised (10,937) Â Expired or Forfeited (423,365) Â Outstanding, Ending Balance 5,009,977 2,911,308 Weighted Average Exercise Price Â Â Outstanding, Beginning Balance $ 7.60 Â Granted 1.33 Â Exercised 1.33 Â Expired or Forfeited 7.89 Â Outstanding, Ending Balance $ 4.43 $ 7.60 Weighted Average Remaining Life (Years) Â Â Options outstanding, weighted average remaining life (years) 7 years 10 months 2 days 6 years 3 months 18 days X - ReferencesNo definition available. + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsAdditionalDisclosuresAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe number of shares under options that were cancelled during the reporting period as a result of occurrence of a terminating event specified in contractual agreements pertaining to the stock option plan. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(03) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsForfeituresInPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNet number of share options (or share units) granted during the period. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(01) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of options outstanding, including both vested and non-vested options. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(i) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(ii) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingNumber Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionA roll forward is a reconciliation of a concept from the beginning of a period to the end of a period. + ReferencesNo definition available. + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingRollForward Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionWeighted average price at which grantees can acquire the shares reserved for issuance under the stock option plan. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(i) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(ii) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingWeightedAverageExercisePrice Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionWeighted average price at which option holders acquired shares when converting their stock options into shares. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(02) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementsByShareBasedPaymentAwardOptionsExercisesInPeriodWeightedAverageExercisePrice Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionWeighted average price at which grantees could have acquired the underlying shares with respect to stock options that were terminated. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(03) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementsByShareBasedPaymentAwardOptionsForfeituresInPeriodWeightedAverageExercisePrice Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionWeighted average per share amount at which grantees can acquire shares of common stock by exercise of options. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(01) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementsByShareBasedPaymentAwardOptionsGrantsInPeriodWeightedAverageExercisePrice Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionWeighted average remaining contractual term for option awards outstanding, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 718 -SubTopic 10 -Subparagraph (e)(1) -Name Accounting Standards Codification -Paragraph 2 -Section 50 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_SharebasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingWeightedAverageRemainingContractualTerm2 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionNumber of share options (or share units) exercised during the current period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481112/505-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(02) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480008/505-10-S99-1Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodSharesStockOptionsExercised Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionShare-based Compensation Arrangement by Share-based Payment Award, Options, Weighted Average Exercise Price [Abstract] + ReferencesNo definition available. + Details Name: vuzi_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsWeightedAverageExercisePriceAbstract Namespace Prefix: vuzi_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_OptionIndexedToIssuersEquityTypeAxis=us-gaap_EmployeeStockOptionMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 64 R53.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Stock-Based Compensation - Additional Information (Details) - USD ($) 3 Months Ended 6 Months Ended May 06, 2024 Jun.

30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Stock-Based Compensation Plans Â Â Â Â Â Exercisable options outstanding shares Â 2,072,021 Â 2,072,021 Â Weighted average exercise price per share, Exercisable $ 1.33 $ 7.24 Â $ 7.24 Â Weighted average remaining contractual term on vested options Â Â Â 5 years 4 months 24 days Â Unvested options outstanding, shares Â 2,937,956 Â 2,937,956 Â Unvested options outstanding, Weighted average exercise price Â Â Â $ 2.46 Â Unvested options outstanding weighted average remaining life (years) Â Â Â 9 years 7 months 6 days Â Unrecognized stock compensation expense Â $ 4,836,647 Â $ 4,836,647 Â Weighted average recognition period Â Â Â 1 year 2 months 12 days Â Expected cash saving due to payroll reduction program $ 2,100,000 Â Â Â Â Fair market value of stock awards $ 1.33 Â Â Â Â Fair market value of stock option awards $ 0.99 Â Â Â Â Stock awards issued 824,711 Â Â Â Â Stock option awards issued 2,756,116 Â Â Â Â Aggregate fair value $ 1,096,865 Â Â Â Â Total fair value of options granted during the reporting period. $ 2,728,555 Â Â Â Â Period of fair market value of awards granted under the share-based payment 12 months Â Â Â Â Share-Based compensation excludes the long term incentive plan expense Â $ 1,470,793 $ 1,083,064 $ 2,454,444 $ 2,212,630 Maximum Â Â Â Â Â Stock-Based Compensation Plans Â Â Â Â Â Percentage of optional salary reductions 50.00% Â Â Â Â Rate of issuance of stock awards or stock options due to salary reduction program 200.00% Â Â Â Â Minimum Â Â Â Â Â Stock-Based Compensation Plans Â Â Â Â Â Percentage of optional salary reductions 10.00% Â Â Â Â Rate of issuance of stock awards or stock options due to salary reduction program 150.00% Â Â Â Â Board of directors and management Â Â Â Â Â Stock-Based Compensation Plans Â Â Â Â Â Fair market value of stock awards Â $ 1.41 Â $ 1.41 Â Aggregate fair value Â $ 328,200 Â Â Â Fair market value is expensed over twelve months Â 212,766 Â Â Â Fair market value is expensed over twenty-four months Â 20,000 Â Â Â Stock award issued Â 232,766 Â Â Â X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_DeferredCompensationArrangementWithIndividualShareBasedPaymentsLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of cost not yet recognized for nonvested award under share-based payment arrangement. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognized Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionWeighted-average period over which cost not yet recognized is expected to be recognized for award under share-based payment arrangement, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognizedPeriodForRecognition1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionThe number of grants made during the period on other than stock (or unit) option plans (for example, phantom stock or unit plan, stock or unit appreciation rights plan, performance target plan). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(01) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsGrantsInPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionThe number of non-vested equity-based payment instruments, excluding stock (or unit) options, that validly exist and are outstanding as of the balance sheet date. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(i) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(ii) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsNonvestedNumber Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionPer share or unit weighted-average fair value of nonvested award under share-based payment arrangement. Excludes share and unit options. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(i) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(ii) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsNonvestedWeightedAverageGrantDateFairValue Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionWeighted average remaining contractual term for equity-based awards excluding options, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 718 -SubTopic 10 -Subparagraph (e)(1) -Name Accounting Standards Codification -Paragraph 2 -Section 50 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsOutstandingWeightedAverageRemainingContractualTerms Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionThe number of shares into which fully or partially vested stock options outstanding as of the balance sheet date can be currently converted under the option plan. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iii) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsExercisableNumber Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionThe weighted-average price as of the balance sheet date at which grantees can acquire the shares reserved for issuance on vested portions of options outstanding and currently exercisable under the stock option plan. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iii) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsExercisableWeightedAverageExercisePrice Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionGross number of share options (or share units) granted during the period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(01) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriodGross Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionThe weighted average grant-date fair value of options granted during the reporting period as calculated by applying the disclosed option pricing methodology. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(1) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriodWeightedAverageGrantDateFairValue Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionNumber of shares issued under share-based payment arrangement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardSharesIssuedInPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionWeighted average remaining contractual term for vested portions of options outstanding and currently exercisable or convertible, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsExercisableWeightedAverageRemainingContractualTerm1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionExpected cash saving due to payroll reduction program. + ReferencesNo definition available. + Details Name: vuzi_ExpectedCashSavingDueToPayrollReductionProgram Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionPercentage of optional salary reductions. + ReferencesNo definition available. + Details Name: vuzi_PercentageOfOptionalSalaryReductions Namespace Prefix: vuzi_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionRate of issuance of stock awards or stock options due to salary reduction program. + ReferencesNo definition available. + Details Name: vuzi_RateOfIssuanceOfStockAwardsOrStockOptionsDueToSalaryReductionProgram Namespace Prefix: vuzi_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionRepresents the total fair value of equity instruments other than options granted during the reporting period. Excludes share and unit options. + ReferencesNo definition available. + Details Name: vuzi_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsGrantsInPeriodTotalGrantDateFairValue Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionShare Based Compensation Arrangement By Share Based Payment Award Equity Instruments Other Than Options Outstanding Weighted Average Exercise Price + ReferencesNo definition available. + Details Name: vuzi_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsOutstandingWeightedAverageExercisePrice Namespace Prefix: vuzi_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionNumber of shares issued under share-based payment arrangement, for which their fair market value is expensed over twelve months. + ReferencesNo definition available. + Details Name: vuzi_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairMarketValueOfSharesIssuedInPeriodWhichIsExpensedOverTwelveMonths Namespace Prefix: vuzi_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of shares issued under share-based payment arrangement, for which their fair market value is expensed over twenty four months. + ReferencesNo definition available. + Details Name: vuzi_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairMarketValueOfSharesIssuedInPeriodWhichIsExpensedOverTwentyFourMonths Namespace Prefix: vuzi_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionRepresents the total fair value of options granted during the reporting period. + ReferencesNo definition available. + Details Name: vuzi_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriodTotalGrantDateFairValue Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionPeriod over which the fair market value of awards granted under the share-based payment arrangement is expensed. + ReferencesNo definition available. + Details Name: vuzi_ShareBasedCompensationArrangementPeriodOverWhichFairMarketValueOfAwardsIsExpensed Namespace Prefix: vuzi_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionShare-Based compensation excludes the long term incentive plan expense. + ReferencesNo definition available. + Details Name: vuzi_ShareBasedCompensationExcludeLongTermIncentivePlan Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_TitleOfIndividualAxis=vuzi_BoardOfDirectorsAndManagementMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 65 R54.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Long-Term Incentive Plan (Details) - USD ($) 3 Months Ended 6 Months Ended Mar. 17, 2021 Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 May 06, 2024 Long-term Incentive Plan Â Â Â Â Â Â Exercise price Â $ 7.24 Â $ 7.24 Â $ 1.33 Share-based compensation Â Â Â Â $ 5,273,028 $ 6,500,261 Â Unrecognized stock compensation expense Â $ 4,836,647 Â $ 4,836,647 Â Â Weighted average recognition period Â Â Â 1 year 2 months 12 days Â Â Options available in equity market and operational milestone Â Â Â 5,359,500 Â Â Equity Market Capitalization Targets Â Â Â Â Â Â Long-term Incentive Plan Â Â Â Â Â Â Options available in equity market and operational milestone Â Â Â 2,679,750 Â Â Annual Revenue Targets Â Â Â Â Â Â Long-term Incentive Plan Â Â Â Â Â Â Options available in equity market and operational milestone Â Â Â 1,875,825 Â Â Annual EBITDA Margins Before Non-Cash Charges Targets Â Â Â Â Â Â Long-term Incentive Plan Â Â Â Â Â Â Options available in equity market and operational milestone Â Â Â 803,925 Â Â Employee Stock Option | Long-term Incentive Plan 2021 Â Â Â Â Â Â Long-term Incentive Plan Â Â Â Â Â Â Granted 5,784,000 Â Â Â Â Â Â Exercise price $ 19.00 Â Â Â Â Â Â Share-based compensation Â 1,409,294 $ 1,749,687 $ 2,818,584 $ 4,287,631 Â Employee Stock Option | Vest immediately | Long-term Incentive Plan 2021 Â Â Â Â Â Â Long-term Incentive Plan Â Â Â Â Â Â Shares vesting 375,000 Â Â Â Â Â Â Stock options tied to equity market capitalization milestone Â Â Â Â Â Â Long-term Incentive Plan Â Â Â Â Â Â Unrecognized stock compensation expense Â 5,974,737 Â 5,974,737 Â Â Additional stock based compensation expense Â $ 33,700,000 Â $ 33,700,000 Â Â Stock options tied to equity market capitalization milestone | Minimum Â Â Â Â Â Â Long-term Incentive Plan Â Â Â Â Â Â Weighted average recognition period Â Â Â 3 years Â Â Stock options tied to equity market capitalization milestone | Maximum Â Â Â Â Â Â Long-term Incentive Plan Â Â Â Â Â Â Weighted average recognition period Â Â Â 4 years Â Â X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_DeferredCompensationArrangementWithIndividualShareBasedPaymentsLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of cost not yet recognized for nonvested award under share-based payment arrangement. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognized Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionWeighted-average period over which cost not yet recognized is expected to be recognized for award under share-based payment arrangement, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognizedPeriodForRecognition1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionAmount of noncash expense for share-based payment arrangement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-28 + Details Name: us-gaap_ShareBasedCompensation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe weighted-average price as of the balance sheet date at which grantees can acquire the shares reserved for issuance on vested portions of options outstanding and currently exercisable under the stock option plan. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iii) -Publisher FASB -URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsExercisableWeightedAverageExercisePrice Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionNet number of share options (or share units) granted during the period. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(01) -Publisher FASB -

URI https://asc.fasb.org//1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionOptions available in equity market and operational milestone under the long term incentive plan. + ReferencesNo definition available. + Details Name: vuzi_EquityMarketAndOperationalMilestoneOptionsAvailable Namespace Prefix: vuzi_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionVesting of award under share-based payment arrangement. + ReferencesNo definition available. + Details Name: vuzi_ShareBasedCompensationArrangementByShareBasedPaymentAwardAwardVestingShares Namespace Prefix: vuzi_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionThe amount of threshold additional stock based compensation expense that could be recognized under the long term incentive plan. + ReferencesNo definition available. + Details Name: vuzi_ThresholdAdditionalStockBasedCompensationExpenseThatCouldBeRecognized Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - Details Name: us-gaap_AwardTypeAxis=vuzi_EquityMarketCapitalizationTargetsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardTypeAxis=vuzi_AnnualRevenueTargetsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardTypeAxis=vuzi_AnnualEbitdaMarginsBeforeNonCashChargesTargetsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DeferredCompensationArrangementWithIndividualShareBasedPaymentsByTypeOfDeferredCompensationAxis=us-gaap_EmployeeStockOptionMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_PlanNameAxis=vuzi_LongTermIncentivePlan2021Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_VestingAxis=us-gaap_ShareBasedCompensationAwardTrancheOneMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DeferredCompensationArrangementWithIndividualShareBasedPaymentsByTypeOfDeferredCompensationAxis=vuzi_StockOptionsTiedToEquityMarketCapitalizationMilestoneMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 66 R55.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Long-Term Incentive Plan - LTIP (Details) 6 Months Ended Jun. 30, 2024 USD ($) shares Long-term Incentive Plan Â Percentage of weightage for equity market capitalization target 50.00% Percentage of weightage for last twelve months revenue target 35.00% Percentage of weightage for last twelve months EBITDA margin before non-cash charges 15.00% Options available in equity market and operational milestone | shares 5,359,500 Stock option tied to equity market and operational milestones Â Long-term Incentive Plan Â Options available in equity market and operational milestone | shares 5,359,500 Equity market and operational milestone one Â Long-term Incentive Plan Â Options available in equity market and operational milestone | shares 680,500 Amount of equity market capitalization target $ 2,000,000,000 Amount of last twelve months revenue target under the equity market and operational milestone under LTIP $ 25,000,000 Percentage of last twelve months EBITDA margin before non-cash charges target 0.00% Equity market and operational milestone two Â Long-term Incentive Plan Â Options available in equity market and operational milestone | shares 680,500 Amount of equity market capitalization target $ 3,000,000,000 Amount of last twelve months revenue target under the equity market and operational milestone under LTIP $ 50,000,000 Percentage of last twelve months EBITDA margin before non-cash charges target 2.00% Equity market and operational milestone three Â Long-term Incentive Plan Â Options available in equity market and operational milestone | shares 680,500 Amount of equity market capitalization target $ 4,000,000,000 Amount of last twelve months revenue target under the equity market and operational milestone under LTIP $ 100,000,000 Percentage of last twelve months EBITDA margin before non-cash charges target 4.00% Equity market and operational milestone four Â Long-term Incentive Plan Â Options available in equity market and operational milestone | shares 680,500 Amount of equity market capitalization target $ 5,000,000,000 Amount of last twelve months revenue target under the equity market and operational milestone under LTIP $ 200,000,000 Percentage of last twelve months EBITDA margin before non-cash charges target 6.00% Equity market and operational milestone five Â Long-term Incentive Plan Â Options available in equity market and operational milestone | shares 580,500 Amount of equity market capitalization target $ 6,000,000,000 Amount of last twelve months revenue target under the equity market and operational milestone under LTIP $ 300,000,000 Percentage of last twelve months EBITDA margin before non-cash charges target 8.00% Equity market and operational milestone six Â Long-term Incentive Plan Â Options available in equity market and operational milestone | shares 580,500 Amount of equity market capitalization target $ 7,000,000,000 Amount of last twelve months revenue target under the equity market and operational milestone under LTIP $ 450,000,000 Percentage of last twelve months EBITDA margin before non-cash charges target 10.00% Equity market and operational milestone seven Â Long-term Incentive Plan Â Options available in equity market and operational milestone | shares 555,500 Amount of equity market capitalization target $ 8,000,000,000 Amount of last twelve months revenue target under the equity market and operational milestone under LTIP $ 675,000,000 Percentage of last twelve months EBITDA margin before non-cash charges target 12.00% Equity market and operational milestone eight Â Long-term Incentive Plan Â Options available in equity market and operational milestone | shares 485,500 Amount of equity market capitalization target $ 9,000,000,000 Amount of last twelve months revenue target under the equity market and operational milestone under LTIP $ 1,000,000,000 Percentage of last twelve months EBITDA margin before non-cash charges target 14.00% Equity market and operational milestone nine Â Long-term Incentive Plan Â Options available in equity market and operational milestone | shares 435,500 Amount of equity market capitalization target $ 10,000,000,000 Amount of last twelve months revenue target under the equity market and operational milestone under LTIP $ 1,500,000,000 Percentage of last twelve months EBITDA margin before non-cash charges target 16.00% X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_DeferredCompensationArrangementWithIndividualShareBasedPaymentsLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionOptions available in equity market and operational milestone under the long term incentive plan. + ReferencesNo definition available. + Details Name: vuzi_EquityMarketAndOperationalMilestoneOptionsAvailable Namespace Prefix: vuzi_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionThe amount of equity market capitalization threshold under the long term incentive plan. + ReferencesNo definition available. + Details Name: vuzi_LongTermIncentivePlanEquityMarketCapitalization Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionThe amount of last twelve months revenue target under the equity market and operational milestones under the LTIP. + ReferencesNo definition available. + Details Name: vuzi_LongTermIncentivePlanLastTwelveMonthsRevenueTarget Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionPercentage of last twelve months EBITDA margin before non-cash charges target. + ReferencesNo definition available. + Details Name: vuzi_PercentageOfLastTwelveMonthsEBITDMarginBeforeNonCashChargesTarget Namespace Prefix: vuzi_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionPercentage of weightage for equity market capitalization threshold. + ReferencesNo definition available. + Details Name: vuzi_PercentageOfWeightageForEquityMarketCapitalizationThreshold Namespace Prefix: vuzi_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionPercentage of weightage for last twelve months EBITDA margin before non-cash charges target. + ReferencesNo definition available. + Details Name: vuzi_PercentageOfWeightageForLastTwelveMonthsEBITDMarginBeforeNonCashChargesTarget Namespace Prefix: vuzi_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionPercentage of weightage for last twelve months revenue target. + ReferencesNo definition available. + Details Name: vuzi_PercentageOfWeightageForLastTwelveMonthsRevenueTarget Namespace Prefix: vuzi_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_DeferredCompensationArrangementWithIndividualShareBasedPaymentsByTypeOfDeferredCompensationAxis=vuzi_StockOptionTiedToEquityMarketAndOperationalMilestonesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DeferredCompensationArrangementWithIndividualShareBasedPaymentsByTypeOfDeferredCompensationAxis=vuzi_EquityMarketAndOperationalMilestonesOneMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DeferredCompensationArrangementWithIndividualShareBasedPaymentsByTypeOfDeferredCompensationAxis=vuzi_EquityMarketAndOperationalMilestonesTwoMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DeferredCompensationArrangementWithIndividualShareBasedPaymentsByTypeOfDeferredCompensationAxis=vuzi_EquityMarketAndOperationalMilestonesThreeMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DeferredCompensationArrangementWithIndividualShareBasedPaymentsByTypeOfDeferredCompensationAxis=vuzi_EquityMarketAndOperationalMilestonesFourMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DeferredCompensationArrangementWithIndividualShareBasedPaymentsByTypeOfDeferredCompensationAxis=vuzi_EquityMarketAndOperationalMilestonesFiveMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DeferredCompensationArrangementWithIndividualShareBasedPaymentsByTypeOfDeferredCompensationAxis=vuzi_EquityMarketAndOperationalMilestonesSixMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DeferredCompensationArrangementWithIndividualShareBasedPaymentsByTypeOfDeferredCompensationAxis=vuzi_EquityMarketAndOperationalMilestonesSevenMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DeferredCompensationArrangementWithIndividualShareBasedPaymentsByTypeOfDeferredCompensationAxis=vuzi_EquityMarketAndOperationalMilestonesEightMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DeferredCompensationArrangementWithIndividualShareBasedPaymentsByTypeOfDeferredCompensationAxis=vuzi_EquityMarketAndOperationalMilestonesNineMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 67 R56.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Right-of-Use Assets and Liabilities - Operating Leases (Details) Jun. 30, 2024 USD ($) Right-of-Use Assets and Liabilities Â 2024 $ 279,262 2025 511,980 Total Future Lease Payments 791,242 Less: Imputed Interest (44,239) Total Lease Liability Balance $ 747,003 X - ReferencesNo definition available. + Details Name: us-gaap_LesseeDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org//1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org//1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueNextTwelveMonths Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease having initial or remaining lease term in excess of one year to be paid in remainder of current fiscal year. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org//1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsRemainderOfFiscalYear Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payments in excess of discounted obligation for lease payments for operating lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org//1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityUndiscountedExcessAmount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseLiability Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant XML 68 R57.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Right-of-Use Assets and Liabilities - Additional Information (Details) - USD ($) 3 Months Ended 6 Months Ended Jan. 16, 2024 Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Right-of-Use Assets and Liabilities Â Â Â Â Â Operating lease costs Â $ 184,143 $ 207,352 $ 375,648 $ 410,691 Weighted average discount rate Â 8.30% Â 8.30% Â Weighted average remaining term Â 1 year 4 months 24 days Â 1 year 4 months 24 days Â Increase in operating lease asset $ 700,770 Â Â Â Â Increase in operating lease liability $ 700,770 Â Â Â Â Â X - ReferencesNo definition available. + Details Name: us-gaap_LesseeDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of periodic reduction over lease term of carrying amount of right-of-use asset from operating lease. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org//1943274/2147482740/230-10-45-28 + Details Name: us-gaap_OperatingLeaseRightOfUseAssetAmortizationExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionWeighted average discount rate for operating lease calculated at point in time. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 53 -Publisher FASB -URI https://asc.fasb.org//1943274/2147479589/842-20-55-53Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (g)(4) -Publisher FASB -URI https://asc.fasb.org//1943274/2147478964/842-20-50-4 + Details Name: us-gaap_OperatingLeaseWeightedAverageDiscountRatePercent Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - DefinitionWeighted average remaining lease term for operating lease, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 53 -Publisher FASB -URI https://asc.fasb.org//1943274/2147479589/842-20-55-53Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org//1943274/2147478964/842-20-50-4 + Details Name: us-gaap_OperatingLeaseWeightedAverageRemainingLeaseTerm1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: instant X - DefinitionAmount of increase (decrease) in operating lease assets. + ReferencesNo definition available. + Details Name: vuzi_IncreaseDecreaseInOperatingLeaseAssets Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of increase in operating lease liabilities. + ReferencesNo definition available. + Details Name: vuzi_IncreaseInOperatingLeaseLiabilities Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration XML 69 R58.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Subsequent Events (Details) - USD ($) Aug. 12, 2024 Nov. 20, 2023 Aug. 09, 2024 Atomistic SAS Â Â Â Subsequent Event [Line Items] Â Â Â Ownership percent Â 100.00% Â Atomistic agreement Â Â Â Subsequent Event [Line Items] Â Â Â Stock Issued under Atomistic Stock Purchase Agreement (Shares) Â 1,397,500 Â Atomistic agreement | Minimum Â Â Â Subsequent Event [Line Items] Â Â Â Issuance of shares, performance milestones (in shares) Â 890,000 Â Atomistic agreement | Maximum Â Â Â Subsequent Event [Line Items] Â Â Â Issuance of shares, performance milestones (in shares) Â 1,446,250 Â Subsequent Event | Atomistic agreement Â Â Â Subsequent Event [Line Items] Â Â Â Stock Issued under Atomistic Stock Purchase Agreement (Shares) 174,688 Â Â Stock Issued under Atomistic Stock Purchase Agreement $ 181,676 Â Â Market share price Â Â $ 1.04 X - DefinitionThe parent entity's interest in net assets of the subsidiary, expressed as a percentage. + ReferencesNo definition available. + Details Name: us-gaap_MinorityInterestOwnershipPercentageByParent Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - DefinitionPrice of a single share of a number of saleable stocks of a company. + ReferencesNo definition available. + Details Name: us-gaap_SharePrice Namespace Prefix: us-gaap_ Data Type: dtr-

types:perShareItemType Balance Type: na Period Type: instant X - DefinitionDetail information of subsequent event by type. User is expected to use existing line items from elsewhere in the taxonomy as the primary line items for this disclosure, which is further associated with dimension and member elements pertaining to a subsequent event. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org//1943274/2147481674/830-30-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 855 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org//1943274/2147483399/855-10-50-2 + Details Name: us-gaap_SubsequentEventLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionNumber of shares issuable upon achievement of performance milestones in a collaboration arrangement. + ReferencesNo definition available. + Details Name: vuzi_CollaborationArrangementSharesIssuableBasedOnPerformanceMilestones Namespace Prefix: vuzi_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of shares of stock issued during the period under Atomistic Stock Purchase Agreement. + ReferencesNo definition available. + Details Name: vuzi_StockIssuedDuringPeriodSharesUnderAtomisticStockPurchaseAgreement Namespace Prefix: vuzi_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionValue of shares of stock issued during the period under Atomistic Stock Purchase Agreement. + ReferencesNo definition available. + Details Name: vuzi_StockIssuedDuringPeriodValueUnderAtomisticStockPurchaseAgreement Namespace Prefix: vuzi_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - Details Name: srt_OwnershipAxis=vuzi_AtomisticSasMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_TypeOfArrangementAxis=vuzi_AtomisticAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_SubsequentEventTypeAxis=us-gaap_SubsequentEventMember Namespace Prefix: Data Type: na Balance Type: Period Type: EXCEL 70 FinancialReport.xlsx IDEA: XBRL DOCUMENT begin 644 Financial_Report.xlsx M4$L#!!0 (/:!#ED'04UB@0 +$ 0 9&]C4')O<'!,O87!P+GAM M;$V./0L",1!$_\IQO;=!P4)B0-!2L+(/>QLOD&1#LD)^OCG!CVX>;QA&WPIG M*N*1#BV&5(C(I(/ !47BK9.7:=N')=HI6-Y #OGDK7A.YNJQ<&4GPZ4A!0W_J=0U[R;UEA_6\#MI7E!+ P04 M " #V@0Y9BEFWS>\ K @ $0 &1O8U!R;W!S+V-O&ULS9)1 M2\,P$,>_BN2]O;2=(J'+BV-/"H(#Q;>0W+9@DX;DI-VW-ZU;A^@'\#%W__SN M=W"M#D+W$9]C'S"2Q70SNLXGH<.:'8F" CZBZE,B=\;N[[Z!3E9SQ 4/1# M'1!JSN_ (2FC2,$$+,)"9+(U6NB(BOIXQAN]X,-G[&:8T8 =.O24H"HK8'*: M&$YCU\(5,,$(HTO?!30+<:[^B9T[P,[),=DE-0Q#.31S+N]0P=O3X\N\;F%] M(N4UYE_)"CH%7+/+Y-?F8;/;,ESGEP>E7P^Z):[6HNJEO1\?)]8??5=CUQN[M M/S:^",H6?MV%_)02P,$% @]H$.69E&UL[5I;<]HX%'[OK]!X9_9M"\8V@;:T$W-I=MNTF83M M3A^%$5B-;'EDD81_OTV23;J;/ 0LZ?O.14?GZ#AY\^XN8NB&B)3R M> +]O6N[!3+ MUES@6QHO(];JM-O=5H1I;*$81V1@?5XL:$#05%%:;U\@M.4?,_@5RU2-9:,! M$U=!)KF(M/+Y;,7\VMX^9<_I.ATR@6XP&U@@?\YOI^1.6HCA5,+$P&IG/U9K MQ]'22(""R7V4!;I)]J/3%0@R#3LZG5C.=GSVQ.V?C,K:=#1M&N#C\7@XMLO2 MBW A(5M>5 TR M6'!VULS2 Y9>*?IUE!K9';O=05SP6.XYB1'^QL4$UFG2&98T1G*=D 4. #?$ MT4Q0?*]!MHK@PI+27)#6SRFU4!H(FLB!]4>"(<7K;YH] M5Z%82=J$^!!&&N*<<^9ST6S[!Z5&T?95O-RCEU@5 9<8WS2J-2S%UGB5P/&M MG#P=$Q+-E L&08:7)"82J3E^34@3_BNEVOZKR2.FJW"$2M"/F(9 M-AIRM1:!MG&IA&!:$L;1>$[2M!\6:PUDSY@R.S-D77.UI$.$9)>-T(^8LZ+ MD!&_'H8X2IKMHG%8!/V>7L-)P>B"RV;]N'Z&U3-L+([W1]072N0/]<_Z3(T M!Z.:60F]A%9JGZJ'-#ZH'C(*!?&Y'C[E>G@*-Y;&O%"N@GL!_]':-*K^(+ M.7\N?<^[![GT/:'2MSAD6R4)RU3393>* M$IY"&V[I4_5*E=?EK[DHN#Q;Y.FOH70^+,_Y/% GM,T+,T.WF)&Y M"M-2D&_#^>G%>!KB.=D$N7V85VWGV-'1^^?!4;"C[SR6'<>(\J(A[J&&F,_# M0X=Y>U^89Y7&4#04;6RL)"Q&MV"XU_$L%.!D8"V@!X.O40+R4E5@,5O& RN0 MHGQ,C$7H<.>77%_CT9+CVZ9EM6ZO*7<9;2)2.<)IF!-GJ\K>9;'!51W/55OR ML+YJ/;053L_^6:W(GPP13A8+$UCE!>F2J+S&5.^YRM)Q%4XOT4SMA*7&+SC MYL=Q3E.X$G:V#P(RN;LYJ7IE,6>F\M\M# DL6XA9$N)-7>W5YYNTB42%(JP# 4A M%W+C[^^3:G>,U_HL@6V$5#)DU1?*0XG!/3-R0]A4)?.NVB8+A=OB5,V[&KXF M8$O#>FZ=+2?_VU[4/;07/4;SHYG@'K.' MYA,L0Z1^P7V*BH 1JV*^NJ]/^26<.[1[\8$@F_S6VZ3VW> ,?-2K6J5D*Q$_ M2P=\'Y(&8XQ;]#1?CQ1BK::QK<;:,0QY@%CS#*%F.-^'19H:,]6+K#F-"F]! MU4#E/]O4#6CV#30,9FV-J/D3@H\W/[O#;#"Q([A[8N_ 5!+ P04 M" #V@0Y99?,)3^TT!V>8*B D1)_OK M]PIL2#+QPKCZBPV8Y[%^DI >I+.MD-_3#>>*/$9AG][W-DHE;P:#U-OPB*7' M(N$Q_+(2,F(*3N5ZD":2,S\71>& 6M9H$+$@[DW.\FL+.3D3F0J#F"\D2;,H M8O+I@H=B>]ZS>_L+M\%ZH_2%P>0L86N^Y.I3LI!P-BA=_"#B<1J(F$B^.N]- M[3Z<]XO,5RT)U*[9O^0[((U7Z>"-/\ MDVR+>X?#'K0R5(EH)X821$%XZ8.\;G(UT 2Q;L:EDO!K #HUN11>!JVB"(M]5QT#UW-?9)NF.3IV4#!OVG-P-LY7Q3.M,9Y1-Z+6&U2VB2ORB.4]:@R*-V> LN M Z$[K$]@P# V'NY4/H:USR&J[\AY4G*>M.R9DL%V(>ZU8F!H;$I5U M!#PM 4_10NU&FNL@Y.0FB^ZY-('A'I9E]QUW[+HF.%3:$6Y_4]\$]/=H?D'=P'_D0F]L5MZ0N>*IT!R9VQSWO/EJ!#U$2K*KF&3CX>8UZ$*DBH7D M6Y#4#UFXHSUT3T=&TD,$)KM*3#8>=/(N.X5WXWHPW,]-4ZPN*HK5A60;#S5MO!,>M-=B(V(L0#280'KHNV/+,O(=(A[953ZR\7!S%RB(1F)%;/KK_6]DR;U, M0DL:(7&GF8@BF*.62GC?CTC")'E@8<;)S]8Q)"@C^B'"DUVE)QN//9!Y_2!> MD^53="]"(W%#;OKT;6[D.D1DHE5DHGBHV;\]I8V&!T,UU>3HVO MGKBP*V&5D&BKA#3+I-0O+\4;2]Z4,(]DQM67!L>OQC6;&:[JREDE(]H]&,,N5O#T6RC;@QLY<<=Q ML $3OS T\AXB_M J_M!6\6<9L3D%UD*/Z?F7HO[U"V=X+*N>%7HH:U"SU7$ MY5H_E7^ @]I +H@2%IO;%3>L75K =5U!]\Q#\KQ#9!]: M91^*QY;],/MB8E_F"]SD0Z8@R<9Z C42_Z!4LZN'PLW-W?16R\-DY(Y'[M"!M7/%@8JSR#VVU0#2#X51"T)O'/G\D?W%S,S:M$UGV<.2,3ZB1X1!AAU9AA^)9 M93]77@>1#K1?.>0S;%6SP:[?MVG?,:8Z7-D1U*G2C].PI+-?TGQ.>@T7C0-L M@UG=FBTNZ\I8Y1\'3RNO&7>KU/64N-U'8X?%15T9J^SCX$EE"H!^ 1DRXQC3 M8% [JN*Z_PLV>+:,]"><}?),U)9Y>F"PV%LNKY4;N--^^%2W%[0 [YF>+U,2 M\A5(K>,3&/!DL;%:G"B1Y'N3]T(I$>6'&\Y\+O4-\/M*"+4_T7]0;F]/_@50 M2P,$% @]H$.6:/0,-59!P =1X !@ !X;"]W;W)K6>>ROWY83XB1Z$&K)![#C[LYIJ;M/MWSR5#>_VX64"CV71=6>CA9*+3]/M)FVZD*5HC^NEK.#)O&Y*H>"V>9BTRT:*K%CZ4G_W74S/:D[M5>25O&Y0VY6E:%Z^R*)^.AV1T>L7/_'A=)?3*8G2_$@;Z2Z6UXW<#?96,GR M4E9M7E>HD?/3T1GY/&-<*_02OW+YU&Y=(^W*?5W_UC>7V>D(:T2RD*G2)@3\ M>Y0S613:$N#X:VUTM/E-K;A]_6K]:^\\,'O6CFKB__DF5J6A=M_Q<]K67Q"%5=]^IRK0P(RKQ:_1?/ZX784B"!0X&N%>BA MA"FRMP'T5\AZM\Z%$M.3IGY"C98&:_JB7YM>&[S)*[V--ZJ!ISGHJ>GLQ_>; M'U>7YV>W%^?HR]G5V??9!;KY\^+B]@8=H;N;<_3/3_\ZF2CX*:TP2==FOZS, M4H?9?W?5,6)XC"BF@45]YE<_ERFHDUZ=[:I/P,&-EW3C)>WM,9>77=/(2]&S MMI6JM;FST@_L^CJ7/K=+DF6*]Z9TPC].DS@FE/"3R>.V0Z8%'*,*BE<]1Z* $B.J5"(H5BAM9)8K5-2P M@ZU^_(F,8QZ,,<9(*3Q)C?QUKL/$\-H\QP"2I;WLMD$U;%M.59@PRTW&9@C MR?YR6.1B&O&8VU9=6!FWF%+IY3V?8.?\D+4'BP[F-H M *()QG@9N4XSP,(J'(3;?P.9>V'R%PZ%HXU#D=>BR@O57=9/+=HR^2V5S(S*7$J(J)ISMK;DI"#N# X;M M&.,-QMB+\9NHNCEP8-= 3*!?LLH@2:X;N10OI2O;8S-L:1+S_2@QQ0+,8NQ8 MU&0#./$"[K'E&00T=" ZAW62_E+R$EW54X,*'$2A2S:0VR*$<;BF#O6F."! M'+$7]&VM1('>9H^UF9U ##@G. KVH%HD Q)"0!#'^I(M)B=>DKNJJX>C6]F4 M/J#D(]/OHZSM.CR0.O$2Z?1K_@S50TPB1V(![XD_@)]%:FMBZHNZH<7=)6G?9EQPS7),.8DC.))M!9NY7%(L*@DH$WB9\X9W6KT#>1%G6&M-.>TJN=.8/TS:/OS5N6I%?F'4B@Q.106(2#4TUECD M(-:I'Z:7)5L39-?)?2'L[HL\[XB6O%ZM;;U[8#5FE=RJUF]U8\2W(F_1(:,",?L4B%_"(1@[$ M XE2/XEZNY77^O-B16Y290@I%AG):M#64A<$300*O43ZFZ[_D:MI);A,81I MR)@N+((A)= K_X_Z,"0-#]P8W\+JY=IWQWM'V1MU^N!<*F?4(BWCDVK"!AJE_B%T%V%N;98ZC-*81=(W[,$W!D(707 1VG&R@3H:] M@76CZO3WHBXRV;3_Z \![0O*O S\WKCZ*&N[3@],S/Q,K FCKE#O.SI"G_ Q M].A0:1OT2Q2='",HZ?H\L#\3;!>BT8<0'73?3?Y?F?V!.!]C%HPCGKP^S=M6 M\Z8NWCP0H,4PF(RQS20\H.&8X-AM\K!S M2V8V#IR#+_NGN!:Q$/ YHFWH+]@;_466Y?J=#*3&M#59]:5$DZ3K]05H116 ! MDLIV,A-+-O!;8!=O#Y;2V7->?"X?LZQROF[6V_)\\EA5N]>S6;EXS#9I^2K? M95OYEX>\V*25?%M\FI6[(DN73:7->L8(\6:;=+6=7)PUO[LM+L[RIVJ]VF:W MA5,^;39I\>=EMLZ?SR=T\NT7[U>?'JOZ%[.+LUWZ*;O+J@^[VT*^FQU4EJM- MMBU7^=8ILH?SR1OZ.A&BKM"4^'V5/9=\KYVZ*Q_S_']JYFIY/B%UB[)UMJAJ MB53^>)+-L_6Z5I+M^&,O.CG8K"L>O_ZFGC2=EYWYF);9/%__;[6L'L\GP<19M9@_IT[IZGS^_S?8=R7CAQ%D]EE6_VE64+-JOMR_TZ]X1 M1Q4H-U1@^PI,JPK"+5)KJ&"NZ_@JA6$H8*WK^ UOG]Q M5N/I**W2B[,B?W:*NK14JU\TX6IJ2P>OMO7(NJL*^=>5K%==S&^N[V[>745O M[N/(N;N7/WZ+K^_OG)O$F;]]<_US?.=<7K^ M_\[4^7 7.3_\\\>S625;4NO-%GNKER]6F 5M2CM5@\;9[6:94MG2A[6"U6%2 2VT7NY9PN MGXH_C1U*>NKG6MMG,HZ'8+)#,%FC(PPZE^DZW2XR)ZUD7Q:O'$[_%(S@&!2@ M%R6O4:J7GR\7'O<#?C;[[=)&=3^1V4&;%EVQR\:] 4(_\!(U@3+%8[\)4>,+SF>)[)*.=\(A# M>(0U/,TTFE[*#6/IR*5"[J)EVNQ#\=?Z=0%!FAC)?25H @]>JXKQY+2]0[UVM6:'G,F6%F%O;,'9.8(K%F&() MDE@GD-XAD%Y_()V;W3YX6;%8E5D)AD]MEU:Q4;V>XXI%F&*Q8%^(!,^\5UE TWZRW6"$AZ"$@X/2O4M M*&4STWHFEE5X;(PQ2),L3C4#VV4NH00)4!Z..:58)SZ4M)!(K!&ZSBKG75Z" M.XF]ZM@8H*I%>[6NXT(6U,<^!4I0#2=[-<]JN!N,(V*G0RGOEZ>M!!;2 L' M@T,!S M"=:O?%SOV$_="XC-//<5%0-$\SAE\E^H^E2W+]'0]UQ"E8$+J%+" M71X$1!C\U4(Q'4;%"NSU^XX!M!>$01!H[K,V8/2@Q52+@5Y,73_4@0_+;#=* M+9'384@^!,/W4GV7%U1G7=/M!5#4>'T!6#?<7P"J/1<8M$5D:F?D4Z\P*,"0 M\!V&O0&C1S4J50.]@*\QL,QVH]2"-;63M77CQ,3..I:A*H6HZHE5+]NF,H= M1' 0&=IS.1'J--(Y5$XV*C<2X:NKD%YTRD)>EPRU M\XINW;2WZJH!D8*!Z=Q.6QBF=AH>L C!KM.!N'&='Q#5>ZA0C*H6 [TP,*U_M!_+2EGFI'7J!O5O:=$3&9WQZNU!O4K=%^MNK6[@!4(M&@%%I\P5Q/>8>@Z- M >NF0:VK4A)R/Q2^Z<+#8XBBU\ZAA5/?[3L>OQG>!&ZCN0T5-5+48Z(5A5".9 M[::Z6B9E=B8])4G="S3L@1,9T8N5VN/*.? R-Z^L6Y'54L,G?!-],E:^F1V M^OS>7 '320]*%MA;,7:&H*K%J&H)EEHWGDA>JN\> ME.EH:;H'!8H:[T$!ZX9C+:#:B_5=P/!=$XUW4 18TW$(!UTZC65>TW$*QE6S:,M;0#"='PTW$/8&C![4J(E;H!>&08UDMANEEJB9G:A/8K50&UX^TU8<'59= MYC/M9B&R-W"TWS'5$K@3G##34XXM(_/O8^2^TR?7,5+&@!#UV&]OQNCG'5'! M&E4MP5+K!K2E;SZ O@?1&M=SKU2-&!!T5::-O3FC0X$*SD#SF6'"M#3,3Z'A MWFFB(Z/<,55OHR:)4=5B5+4$2ZT;PZ-GN^V@;4,7\GK MIOXBC<-WN5S\5!+ P04 " #V@0Y938J-[,(#7, & 'AL+W=O M^9H_+NKDQ MGEQLTD8 M\]THOC<7-XO+$6F>2*W4O&XH4OAX4E.U6C5,\!R_[TE'ASZ;AL?2?]FO6^/! MF&]II:,%ZK=L42\O1^'(6ZB'=+NJOQ;/_U%[@T3#-R]65?O7>]YA!1]Y\VU5 M%^M]8WB"=9;O/M.7O2..&@ /WH#M&S"]@3_0@.\;\%-[\/<- %-[$/L&K>GC MG>VMX^*T3B<79?'LE0T:V)HOK??;UN"O+&\"95:7\&L&[>K)]/;+[/:7F_C3 M?1)[LWOX^)Q\N9]YM]?>[5WR]=/]#0"\,^ 76>Q]^.4E^4(MD/:QO;VTM!^&L0>+V:O%5\Q*^,/_^AQ\]/'"/.1 MYYF>WIQCYOR]KV

Z6P2S[!DM';.>G"GO?5XO?5[/G]23"P4/DBB8 MX\DVC[,?ULNE;%RV_>G3:Z)$S\,D6/R\KO;T0E?7 L%G@'!@'[$[GU-W/B_(MANE,;1O1]WY/-UPOV15>B_
.@';..QZ<#MSXTO&@%\O"7WSG]+Z?]G1(LA<6 MHI<6_OYE=UL^<&/9S09*O(2T]^G/;6*?66KS=.-Y^*-9^*>_TWGH:/L:R8=7 MG^X?S;-^$HXQ61TRV<%EVV$\1*4[J&@P3H>P;
<6#\93@F4M;+H#2P;C^1 V MVX&EV= !A\LRAYOOX*:S;:21"R*=>]QB-XC=F8LC33PR"I] L^',Q]*WB._L MR7//CO'@ JT9:_S#LO_;/ZE/_FMS"_9N*\ 25B@:CF?XBM7^
MG>LG5M7N;7FK++Y4W; CFV9 +B^4EAK[80,]'IL./D+4$L#!!0 (/:! M#EE:W@"R90(&@% 9 >&PO=V]R:W-H965TP: MBZ((H%K%:9),IM'>\2#+BKPC MSA:-
*/$1Z6=S;WD7CRR%K%$[:318W"RCF^G5:N[S0\(OB9T[L,%WLC;FV6^^ M%LLH\8)084Z>0?"RQ5M4RA.QC-\#9S26],!#>_^.?3.O:R%PUNCGF1!U3*Z MC*#
C6@5/9CN"P[]G'N^W"@7OM#UN=-9!'GKR-0#F!744O>K^#.*D]C_ED2Q')>,H^RY)EL(?T"(F MYO/>.!^PJQZ;OH.]@#NCJ7+P21=8O,;'K&,4D^[%K-*CA-]:/8%9<@9IDLZ/ M\,W&YF:!;_9?S?
78^=M8/PQ7KA$Y+B.^[0[M%]/L]&1ZD5P?438?E0T$JASIBQ\%]6=%Y MRVQ")=?FU9CZBI_I".M&<:R]<[7$R4_(8Z@#=5[T5Z<::V'-FAI-WGKZ..# MVU^C+<.,^Q*MIGX01N_XC-
STT_.2WK]!=*6+((/9,/09/+A/ +;SW6_(=.$ M65H;XLD,9L5/(5]?P/&-X9\S;'R!\7'- @)02P,$% @]H$.6:*1PZ_M M P 5@D !D !X;"]W;W)K&ULK59M;]LV$/XK M!S4&-D"U7OV6V
;L;$53M$G0EQ7[2$LGBZA$JB05V_]^1\K6G"SUAFY?;)&\ MY[GG[L@C9UNIONH2T<"NKH2>>Z4QS640Z*S$FNF!;%#02B%5S0P-U2;0C4*6 M.U!=!7$8CH*:
<>$M9F[N7BUFLC45%WBO0+=US=1^A97*XL$7Y:!2M:/D]JC\^E;EB&OIC$470%_\()O&Y-JQ J MI+, #=O3"26KEBJM@'J%8H:+3;=,8 VR "H?]N7S88N$IY5"5M03]*5S'R97 M__AOX?W@
N+QU('L9T>]M/#*/*GDQ ^2<.JH]AW3NS]4>S1=CR-_#B-:5F3 MBINZ:0WF<",,"=2F- LY3?TXF?YRX.S(CBG9PXI53&1X(FRN*J8V5L$:;3.J]P(U-9<')D:U(MS41;4$MKE3-@6:>%"P?
_8K%O4"B.QC ?;JD[D'=$1@U[D.MF'A:+H(R YFL M24U&^NXR{]=DF=C"1<,!W EX2WZI>4,T.Z> 3G 2'.U09UX2ULQHS25(5"MQ2 MWG!G4.36FUW,6D4+YN@950U&PJU\P-
KY['8+.5W2+B(.36WVL3-%](KZBXV$ MY3FW79[S=?:W'6WL'B"G%]$D]:,T<>07 M<3CVDV'L*F5AIJ2B0MUU0;1=\.DAL##ZHMQ2; VZRZG:#_Z#H&0\]$?II!.4 M1J$_FD:]
(,UW/R1G^=P!MH1;=]_9[#^0H U"SG4F6ZHHR:-EVN:30?*3(W[6 M7J%],YQL/KL%+"P:I+!'IO3@N;89G-QU-=(IL3>Z!N>ZN_;ZV?[1L.SNRK_ MNQ?>SID7&CR7Q
T'(R"]CN%N\&1C;NYEQ+0 _>P^RSIX8/*&M!Z(:E_'@;6 M0?^46OP)4$L#!!0 (/:!#EFL#&WQ"@,)4& 9 >&PO=V]R:W-H M965T5DF>/&Y\48>*PD:Z7C;B@%ND?YH[QU8ZL)2J1N.5->!P
MOTHV^2?7--/A'AZ*3_YL#2&3G;7WP?A4KI(L"$*-D@*#X-<1;U'K0,0R'GK. M9 @9@.?K1_8/,7?.92<\WEK]3954K9)Y B7N1:OIBSU]Q#Z?MX%/6NWC$TZ= M;\[.LO5DZQ[,"FIENK?XWM?A###/?
@$H>D 1=7>!HLIW@L1ZZ>P)7/!FMK"(MJ48TBU,F7,J6']QJQM%ZV^X\K1H"-X?^>F7*3%M.$QE3W'3412_H)C!9VNH M\O#>E%C^%Y^RG$%3\:CIIKA(^&=KQC#)1E!DQ?
0"WV3(<1+Y)K^38T@'4,FN>CV=6, MXT==VS+G>EBW*>,MILMO [Y%]EBV(UVOG@#/.XB5LA*X3%F'F6C(YYT0*@K M8[4]*,D9UDHC9V+0C^'O2OE8 6%8X$EI#3OD\26M*T-1/
B>166I0J49[AF MRD5^R2D>@J\6Q*Z]^B?%?'6*N+SFR-$B(BAA%ZJ4*^&A%8ZX4BPSE&(,SW5F M>C8J:N1P82!ZOH[64#&ULK99M;]HP M$,>_BI5-4R>MS7-
2&$0J!%BG=4*MNKUVPP%1$YO9!MIO/]L)*2##T,J;Q';N M]S_[?,I=9TW9,Y\#"/12%H1WK;D0B[9M\VP.)>97= %$?IE25F(AIVQF\P4# M/-%06=B>XT1VB7-B)1V]-
F9)ARY%D1,8,\2798G9:P*NNY:KK59N,]G*'U6 MD]M)UW+4AQ"3"@%+%KZ$-1*'&YC3^UIM6X5.#V>*,^U&>79WG"/JT^)U/ MQ+QK75MH E.\+,0]77+@^CRATLMHP?
43K2O;P+%0MN2"EC4L=U#F!'KCESNB. M6X#4,0->#7C[0' \&O /]5#4 /!J1["&@CW@>@ $-5 =*J'N 9B?5E5=/75 MI%C@I,/H&C%E+=740-^OIN6-Y$1EXH-@\FLN.9&,\2M:<30&IK.:9(#2G&<%
MY4L&Z!(]/J3HXN/GCBVD,X7862W1^\S_OP.)Y" M)G'W(#XZ'?>.7(7?9*VO]?S_R5I3KE9R@5E. >W;?($SZ%KR=\Z!KKZ9[/*9:>4VQP3K'A.<5&9Q+;R9:@R9;@F'KR4Q;T6Y+1$M#%#\JY\6]6
M241:0I7O57(9.)'KN2V9[ZOMZS=8MIP@:'G.KF%], R=*&S%<;AK.3!8NBWO M.@R=/>==#HZ8;M)PXWK4<&0\41WX8OVE6X;2WRD<);*8[XXRNB2BBG*SVC0? M-[KF[JWWW';?-
:RG;GM=6A_*]J;J.=[<5AW0'6:SG'!4P%1NP;F*95UE55=1 M301=Z*+V1(4LD7HXEXT8,&4+OTI%9N)&PO=V]R:W-H965T/W<:SR"FJL;D0#W,P40M98FZXL8]5(P,0%
MU2Q.DV04UYCR*)NYL;7,9J+5C')82Z3:NL;R?0E,;.=1+]H//-*RTG8@SF8- M+N$)](]F+4TO]A1":^"*"HXD%/-HT;M=3NUZM^ GA:TZ:".;R4:(%]NY) ,H ML4+ (->6@,WG%>Z
,0LR&KJWS,AO:0,/VWOZ5Y>[R66#%=P)]HL27$"Z M"TB==[>1L_R,-]0&RV(:/3_1>YT MP\ ,P4!L:$7&P8YWP6_QRHXNJ]@S2G")\PBW,.+QEW2&Z'-E>^: ME7EC0=H%9KX00N\
[=@/_:F=_ %!+ P04 " #V@0Y931P&9J04 !1/0 M&0 'AL+W=OJFHT&A3(R-GYD)@"^E%= M78];#[S8U/:K6QG3J&]E4;F7!ZNF63_/G;IRI3:'=5K4^'-HK:E;O"G71Z[
MM34ZXTEE<3R;3,Z/2YU7!Z]>\+./]M6+NFV*O#(?K7)M66I[_]H4]>;EP?2@ M>_ I7ZX:>G#\ZL5:+\VM:3ZO/UK\=1Q6R?+25"ZO*V7-XN7!S?3YZ^F$)O"(M+[G9N.BWHJ/,Z_HK_?
$^>WDP(8I,8=*&EM#XY\Z\,45!*X&.?_M%#*>-#'^ MW:W^(Q\>AYEK9][4Q:]YUJQ>'EP>J,PL=%LTG^K-WXP_T!FME]:%X_^KC8P]
MO3I0:>N:NO2304&95_*O_N89$4VXG.R8,/,39DRW;,14OM6-?O7"UAME:316 MHQ]\5)X-XO**;N6VL7B;8[SZK5VN5/U0GVTQIFJT!B)/]ZW^>"+W+_/+RD#PT[I<:?ICD5>Z M2G-=*
(>M#-2NX=V_M+_GW]2;VJYKZT7CKW^YG,TFUPLV2B?K\I/IM:JM\B]Y MFG_\3*WTG5%S8RH%1JVUQ7YYQ639#+L:B'RS4DM3&:N+XI[>F#5114/:JB&Z MUS8'?
>O".)I+FW^N^!BW1"_3>E,:FZ0&MX MT+MOZ4I72^92F3LV8T]IG"?O]MV;CKHC=^%XO&=JC,JEQ#M:>=]%JH7.KUK&EZ67#DY\=*1):C(%=
M=1UO(TF;7ESC\=]{/#I>F88T*VL,']9!9$NQ089LD((%,<&"@&!KF&$==3ED M+J\RR YYB&[+[Z=@T8(3B]RE8-^]T984 E-4C92!2) ?EPPEKWX*'
MY1'S'.YRD>T\2&@\UKVTC>C[&O)NJ:D')QZF0'NG7_\-.@L3*2*TA-[?0/\+ M-3V3*S$:8V#/@H$]VVL9W[!O!>%O:IB@JO&7.69B_]1"=*1(+O?)XZ)NK??U MQC+S1$,P\GSR
U]'W8!=:UMGL$D8<&>J5F2]QDK=U,',RW.>::HEZ(5\0=#(M1^4IVP!>X.BQ-.)2=^YS<;;;PGZ#/U))(6"\G'=^]"XU^9V>%V&Q$:7;0]WNY?:HT7E0H_.]TO\C6?0O
MNFC9;OX8C,Q[=]!L9<94ZO^]*'O1R*<+&IZ,<2QZN-;W\@07JVT%1OL;YS&VQ0/S#;&3,[141:80-M\+ M++#N$1G\S89WN:DD2!W9[K@O&2!*CT3,G",&X!N=ATT[LNB-VA27&.; QWO/1
M/)LSV,KRQ0*/JT8M;%W29"R6:FO9-_E5M5.]0&6X%G@)UID5V6^LU@$?V=Z9 M>-M]8G81Q.QBKT3\5!,U;&'M* S^CND//? ?.\H1"*L=(EF:W:QT,W*87$FQPX M &L"N)*% OO43C[$ &$
0#NYQW$CV NS3+ 8MK[8Y*]^LX 0&$!LW$(+ ,"0(M?SO)"[\+ZW(B!(]+36L3[-6P?V.,=0Q)D_3)%$2 KQ.& MM4GS19XJ78]*L%H5H)B>>J](Q^V/$)&;J,TJ3U>(<1%&\3IL:.'/1NZ 0+& M4!?:J7_4
M1^KIS>WG9S"]T]-#1B6#Z'E@LVY[-K)]FEVKH30^O6WG#:!UBN7.#D\GSYZK MM\"01>U:R.?UF<8U&C"10XMYW39@'L+K)F\B2,6,O"?&O!DP9K ;FQGML6T2
MP7@+\F&TF<9N2.*\,U$EA="$RD\5M,%][A&HW\I%>@TPSI'(\PZJ]& MB[%ZK9F?+=RQ+?CP4"P)6L(J C5EKTQH \6FBW-$SG@QUBBQJH]5<@J?M@AC MM45,U+!)[)?5. _3?ZU^G=7'@@"NM?
>0 "VIZJ;W)@. Q!/.R7A;R*'IC+H>; M<.TI[N%7RW>" MQ8*96.!@?/^+-"1H0DD^,Z<@;EYX8AW'%K"-A!HE2NOBO<)H9QYZT%A.1U ' MF470PM%NHW!54)40*>W'O;37D[-)>3X<
M:'>S"XNDDL<]CL.!(A\-ILFD\O9(P^T V0/3ZDYZ=26E+LA'&/@EG)&@4]. M3D^3<_QW=GYY- HIM[C#V:0[@F!D>"BS+#Z7$=:363([.4TFI]/"\VEZE7T4;-F _F%]!-PJ"W9H;P1-&AUCN>
[S,E8*!]IVUZ' M_&A!6&S01.#K>G@KU@_;UAWT=3!$<[74?ZJC#UPD%W"P"6BLKNMG >4%DZU M8-M#@8#X6$C%G2GJ-3_&K*75)>S4')"=1@E&B06+0'Y*V]J,?I<(9G$9M19# M@?
+F4@@3AN$>-X1'*$G5.V2ZW86W=OYD^"7&)B%WC5M/)9")#!!P282O0:]S MBDXETI'?')Z TW MW@.O@+V,W2GK0J:'E21G+,RT_ /YY(U(Y$0CJ#SD3S$F
M0^8;;M)1[JTQZ;JJBWIY#VR84O3$*Q&;FON(#**BS%-;__W=VW@2I$C=(B& MAP"@>NH,P37"TN>\SL6SH>U;ZQQ:=#)+SB:39#*9D##VT_U)@6 ;CJ^CU)X; MMQ(=S1MH "(LA
=L:2"1/[F&W(=\1$ M]08QD: EMA$EUB._FO]N^*5?P _M_O(L58AQ34'XPWXUC:\,4#R<*&>*PE<& M4@_SEA;TT]@EPL\D"K4][4?J;^!1356"HDNT]PSM,SU:8*Y5QF0Q)FY68,-R
MY<.N@H&*ETL7,O_[=3Z&VXCSJDQB)_W5*.UK#?W4L]^@$$!6Y@ ?O F(V2Z:98'#K$>E!A M%A9"Q,P@,@]=$ L3T6;F M36>R]G@3SQ:/!AV9G*:A5!B=@?
G.Q+>D1U@_$W/"#B2A@)5>2E8&V'#IGN,> MK\XOKJ[5)Y-U=2 "C9U.:#8&0C3D#V:37Y0#)A+"53 :K:[!:GA0$FY M(D KT_Q/L:=X&WN*6UUX+?K NM9%5#])68Y_WV2P:-
@RX62Z\"CJP^\KU9W M=0&X3X+LY?%PDV=LU&Q=%-&)T<5[.1P;N"E0'@[P,A];1>K:_$>PT M!2-P^#/(V:+JYQDN7P1A]PSN1:JW7=+,)>".Y+*C+)MQ?+#T/>##N::S2O7
M'SQ>.Q,]$\]O?.K0Z3L2G* $6S(P2Z9>!]3.R"P@^]JY&8J8.=&',\%&I5^5 MWG#6@>(U_EOX0':-@DU+<(G.3R=GL<*_271@,G ^E@GP?@/EB?C7W^#-HC&V
M0U*P131S_U7U6LJ^L=2_D1)31.;D"]QB+:*)5)7HFH\6OF(G!Q.!^$?P/<> M-5&D!?.Y,>8KV"H&W_.?;U:LBU3X-MN7,#V?\17*8>W+> IXP[*&JM"!TACSP=-:P'; B=%5=\'<*-&8D(QC
MXZ@([E">_I!0 M6< LWC>T!]:*XB&G#X]9W[DP2V,1GND!^01VKA=\QR]PAXH0ERD,,FKO1 M=V;9DFD<4D)NK:'S:.F (GP2Q4#@*:=IN1]PW#Y994C:Q5(+D.FRGJ:SK5YMV[68B*
[!3R)2 MUO):3-R(58M8V9?/Q^3V./K*M31VR=_R,O:N&OG@-3P-WPO?R%>R_7#YV/B# MM BHPBPP=7)T<7:@K'R_*W\T]9J_F9W7#9PK_Z0ZBK$T _I>[KN#]H@?$7] MZO\ 4$L#!!0 (
/:!#EFF1Z$760, $H* 9 >&PO=V]R:W-H965T MD+%E9'&\HNO4+7^[UN=.=>+.=D))5 :#)0UUQ-7<*K9MS MSU-9 3539Z(!CIR-D#73>)5;3S426&Z5ZLJCOIJX-
2NYLYA9VE(N9J+55+XW%O_V<:.L:R9@BM1_5GFNI@[J4-RV+"VTK=B]POLX[$,U$INY+= M7M9W2-8J++]J,B*H2][M[&&?AW^C0/<*U.+\N'%F4'YAFBYD4.R*--%HS!QNJ MU49P)3
KF%3&QYV66*Y^1*<"TQ90KQZ()<620@%?GQ MCJTK4# -/(WNC1$OV[NZ[%S1%PEYR :-%HI<\QSRI_H>PAZPTQ[()3UI\->6 MGY'0=PGU:73"7CCD(K3VPF^4BV,IZ#Q$QSV8#CM7#O H2
M_^($_FC 'YVROEAAQ^9M!41L2";JAO''MXIHH5F%_=/%MG[$ZODD)&FDR-M, M$V/D:"2G?;UYE5(_O"#?>[\K),"3PAI8J_+A../O.]81V#IZD=#OIM#,$HY. M^ZI1_PAUV65PFDX-RDB1NX-,7^?
[Q[6EV[?E M(>S]:?4C2?!DY0E4]]-PWA$"U$NP;2E3U*6IM0-ID,.3S1>/#1> !6-Q%) M5?938]/U_2=' Y8:=*%RPA1AI &9 =?X#AHC7<\.!HZUYVE$W[']GC7/LSY\ ML;V>M9]ESRE*47+\K^;L[G
U(')/79!KATDM.4D.9X/+;/4ABI0PO""[(1]ZT MFMQT:8^,:C+2I!0OX8CPWY1SX/OHHUM[SHAVK!R]T?N.#_63C$*2ZWENGO
M!^HP*+WOYH.#>#=EW3")/PA%*MB@JG\VP3J2W>327;1H[+2P%AI?.7LL<-@# M:020OQ%"]Q?C8!@?%W\!4$L#!!0 (/:!#EF5$HYDOP(+$& 9 M>&PO=V]R:W-H965T3:1"1V9CN4_?
O929L6K503VI?8=[[G\7.V[S)>"?FH<@"- MGJN2JXF3:UV/7%>E.51,G8D:N%E9"%DQ;4RY=%4M@64MJ"I=2DCD5JS@3C)N M#33.9C$6CRX+#3"+55!63OZ=0BM7$\9R-XZY8YMHZW&1TP-
WYAOVZS=WD,F<*+D7Y4&0ZGSBQ@S)8L*;4=V+U"=;Y MA)8O%:5JOVC5Q=+(06FCM*C68*.@*G@WLN?U.>P 8O(*@*X!M-7=;=2JO&*: M)6,I5DC::,-F)VVJ+=J(*[B]E'LMS6IA<#JYX4_ M9 %*
(R^FD=P_)W-2U G M8U<;>AODIFNJ:4=%7Z&*T*W@.E?H \\@>XEWC:Q>&]UHF]*#A)\;?H9\@A$E M-#C Y_>Y^BV?_X^Y[DNQ8PCV,]@*&:F:I3!Q3 DHD$_@)$?OO(B<'] 7]/]"
M0^S)O:FXK"D!B07:T;I/YF&BHW#F+%0?]AYY!,>#" \'_HYSB$-"<.'% MZ,$T@M."G\ZD2$%M@3?HX<"GO>T/ SPT>J\+7I@2RM!'(;)M>(A)&& :![TG MP'%, M?
%)_E>V+LZ%^C+WHY=D0>S8^V?CV/5=WIXU4()=MLU0H%0W774?IO7T_ONC: MT#:\:^:W3"X+KE)"P,E9X/00;)KD)VA1=TVI;G0IL6UT]S\4T#: +.^$$)O M#+M!_Y=*_@!02P,$% @
]H$.6<.T[43E @ K08 !D !X;"]W;W)K MuLK55K3]LP%/TK5I@02!9YOZ"MQ%/;-*8*V/;9 M36Z:B"0.MD/9O]^UTX960+I63JU2J>[4 MMF560L/D">^@Q9F"BX8I'(JE+3L!+#>DIK8]QXGLAE6M-
9L8;"YF$]ZKNFIA M+HCLFX:)WxQ=0\]74S;IV!+N0?WHY@)'IJB25PVTLN(M$5!, MK7/W]"+0\2;@9P4KN=4G.I,%YX]Z\"6?6HXV!#5D2BLP;)[A$NI:"Z&-I[6F M=2ZIB=O]C?J-R1US63
)E[S^5>6JG%J)17(H6%^K.[[Z#.M\0JV7\5J:+UD- ML5YHD:R7BC=K,CIHJG9HV:0[_)MM#3Z\C:^+KR]@E_[]H3X#B6>XP5[]/PQ3]_H^?^0 MYWOI#>S@?;9^&:>R8QE,+;SZ$L0S6+/#
S=RSO9X"T9OP3[UV3V^M+RO@?"" M_,WG?J7#@\1S_#/ROUH\!3"GL &N((-F 8+X[BNHCTA_?/+ .5I:$M;FY):U M?8&/KA<:N7[]JPX7QI9GTA*PR2D2>!M80F-4Y^ZJ4>^ 3ZVDM>Y?%V()GY*
MW2@8$0R-/!JE(;GD3=\4"LF8*1$,4KXR3A.?!_7#,A- M+]H*W8(1>.O7HP$FG031%A(F#DV=X,V^N2$-_9"FJ;,-^;&C,\,I#PEYUG6 M-WW-%)]\ KQ66<5,H=HPCF+J!S%UO?
AX&_/2F,9A>+QS52CY#FIG&]TDH4GD M[V!.K'?0>>._*VELEI &Q-(52DHSWK1JJR8B.M?A*$&OX4,AOV5B6;62U% @ MU3F)L?2)H3@. \4[4Y 67&%Y,]T2_R<@= #.%YRKS4 O,/ZA9G\ 4$L#!!0
M (/:!#EGG8U=;F@(#<& 9 >&PO=V]R:W-H965T6^STE9J86A,L"%@XI.;7!J+Q.YLA\)^_>\[V78=+(9]5":#):UUQ-7)*K1<#SU-9"3559V(!"<*
M(6NJ<2GGGEI(H+D%U947^G[/JRGCSGAH;7=R/!2-KAB'.TE44]=4ODVA$LN1 M$SAKPSV;E]H8O/%P0>?P /K'XD[BRNM8)TNI &N#U?LU_9W#&7 M&55P(:HGENMRY*0.R:&@3:7OQ?
(+K/))#%\F*F6_9-GZQI%#LD9I4:_ J*!F MO!WIZ^HM,1= MAC@]?H2LY*(2\S=RPS(\;% N^8:/X>21SBI0IT-/8QCC[&4KRFE+&>ZA[)%; MP76IR&>>0_X>[Z&\3F.XUC@-#Q)^;?
@9B7R7A'X8'^"+NIPCRQ?OX5LGNBNU M@TA3(0.UH!F,'"P!!(?G/'Q4=#SSP_HBCM=\4%=#UAQ>5,1$06Y8IQI^'B# M3S8GUUQ3/F=X'V2B%.B=R@]S'Q^EH1^=D_\UXIV O9.UX1(RJ&
<@211LC.;" MS"?ZYSCKN^H,T@4NG$_T78@@Q!"@U(!, MLJRIFXIJ/.])+:1FOZGM&QU'X"9IX/[Z8;B)'&33R%&34[_*I^-LK2'P'ZZ M90E[;IH$*";8]6B\K6*N0G#866@M"^O/;%SW//G>V[P8J+.YD
'?9X4<6HE29=]Q9)1 SN0I+Z' M/W,N%O7([M=YV ($[@L N@90H[MV9%1>,L7"@> K(O1N9-,3$ZI!H[BTT(#6ZO1^M7T9? MEBR"H8577X)8@A4>?_"Z[OD!;>U&6_L0>SC%EQ97&1
^)Q<\+UGQ\%&2UQ0? MYCS^$%#7/R?_:\3S ',>&\,E1)#4'O/1KU8F/3R8B73(%&(\HN6#F!5X5 M2Y *7S1>M0WBB'0[KNVZ[I:EO;:,XCC50+E7E4=W56(I,LA;KECVJH864R3B
M4IWL\#S7])K]K>.4S]6*"<#L+;$>EEH'RI-J-T1/.]KK+.AUWID>C];(;R!E MGXRBJ,JK##,4DU'.A4K_UCEZ#FOU*+4II;MY:G7]P Z"LY,#D=GD. :6G9/J M]>Q>+]BQ^UW]CSOW1FN3_Y)57N\6&?
TJ=,CG67/.-SWC)VMLIJ#6)CF(?'* M5(6]*VQC;?K3J"[+C]OKYG;-Q"+%D\I@CE#WM(?M0-0-HUXH7IHB/>,*2[Z9 M)MAC0>@-^' _N=HLM(.F:X?_%!+ P04 " #V@0Y9"S1D<0\# "'" M&0
'AL+W=O6L3I+Y-ZZ2J4=*MGQVX!%2#,]LT[_?&0(A6HJZ;A\2[./N\?/XSC[&&R&? M50*@R6O&YC"51'59QN3;%7"QF5B>51MFZ2K1QN'$XS5;P1STC_54 MXLQI4.
(T@URE(B<2EA/KTCN_ZAG_TN%G"AO5&A.C9"'$LYGD]"D>"J_ ">;RK=':1(52HMLL&XP,LC2OGNQUNP^M@*'[3@#=!M"2=[50 MR?*&:1:.I=@0:,P1S0Q*J64TDDMSDY2YEO@VQ3@=7D:1+"
FMZ^89@6*G#ZR M!0?U9>QHA#=.3K2%NJJ@Z#M0?7(OT$_![D9\1 MW[4)=6G0@>=]S2*86'@$%,@7L,*3(Z_O7G3P M"QI^01=Z.,<3%Q<_(/_KB=F ,ANUX08BR!8@B>_M
MC"95YL__]#JU\B>\$Q1A>4QFP)E&R[506C5^QV1 ?3OP:OA6&Q"&Q_./CT?CT*C=+:>X#WL1VXHY:-VH&' MML#QJ-)>4Z6]#U=IE+#<9"DUUVNE=U-OF=AMV:'B[5[D[XOE0**8WJ_1O;(\
M;O(U0SE1%8%-#HM$F]:UJC'35NY./3JRAS[]TGYYIY2A<%-($S4%F8]XB1A0 M>^2Y_ZRC.7SE^6IIV*_!0^EU6LTA [DJ6Z BD2AR7?6)QMITVS]5$BW79:A9"B^,JAPE^*8 T#OA^*82N)V:!YMLC
M_ U02P,$% @]H$.62TF54O# @ P 8 !D !X;"]W;W)K&ULM57;;MLP#/T5P1V*%,A\DW-K$P--NRO6-6BV]5FQZ42H M;7F2W+1_/TI.G*Q+ PS#7BR)(@\/)?%XO!;R0:T -'DJ\E)-G)76U;GGJ60%
M!5.NJ*#$G4S(@FEN3S%*QGCB!LS7<\>5*&X,7CRNVA#GH[]5,XLIK45)>0*FX*(F$;.)S.\3)G.%0PAR2+1!8#@\PA7DN0%*&C\WF$Z;T@3N MS[?H[VWM6,N"*;@2^3U/]6KB#!V20L;J7-^)]4?8U-
,S>(G(E?V2=>,;]1R2 MU$J+8A.,# I>-B-[VIS#7L#0?R4@W 2$EG>3R+*\9IK%8RG61!IO1#,36ZJ- M1G*\-)*Y%\O!VBG6EY$H4>->*V>/J?&.+'-39V-.8QCA[R09R
MVD"&KT#VR8TH]4J1=V4*Z>_Q'M)K.89;CM/P*.#GNG0]];LD],/H"!YM:Z86 MC_YES8=*;9"BPTBF8\Y5Q1*8.-@2"NOC./'I2=#W+X[PC%J>T3'T>(X=F-8Y M$)%MF\9.#7TBJMVKYOKY$/?
CZ*V,?"HMX;+1Y#8[W\X?JV+ M!4A3X6N>=V!DAI=+\H5G. .M/0I\;T\@$ZZ S"1/@'2>@4EU1FYKK30K4Q/' M-+F&!&PB&M@714G8'05!E_K#%O$-&;A]G_1=ZI,/DI6&?MCM4?0[E?
<8F[0A*4D0RXP>I$(>W2?F_G.W"'HW\^ZA>58M] VS>D MU_7]$?(?[%49N1$UJ0]VE;>G*@7(I=5.11)1E[H1F-;:RO-EHTH[]T;;;YA< M&ULG55M;]LV$/XK!W4M6B"+:+TX;FH;L-
,42]%B!N=NGQGI; FA M2)>DXO;?[TC)BK0Y[KH/MN[(YQ[><^21T[W2#Z9 M/"]$M+,@L+:W648FJS MBIMSM4-),QNE*V[]U=O0[#3RW =5(HP8&X<5+V4PG_JQE9Y/56U%*7&EP=15 MQ?
6/)0JUGP6CX#QK!P6VX+ZP;"^73'MWB']LMNI"4W"OUX)R;?!8PEQ *S*QCX/1YQ"L4PA%1&M]:SJ!;T@7V M[0/[!Z^=M-QS@U=*?"US6\R"20 Y;G@M[*W:_X&MGM3Q94H8_P_[!GL1!9#5
MQJJ]#:8,JE(V7_Z]K4,O8,*>"8C:@,CGW2SDLWS/+9]/M=]#=FAB P:RF7 M#67T#.48/BMI"P/7,L=\&!]2>EV.T2"9722\&,MSR%F9Q"Q*#G!%W>:8\\7 M_Z+F8U(;IN0XD^N82[/C&P>.2E<(<-
XO29B=%$$_\>N6X*];DIU"=N+*SW*&B+VU-Y2XG)&H]- M72]OUN\7L.9Z2[' M_0K_]SN>L+.4,?@-HC/&V.'G_+1SV#D5ZX",![CTR8SZ MJ&2 &O7LI]+!["H9X\=+&UAXP$L[MF3/NQB $O2?
@(>EZ8>-QG@QA=/2D=> M1#)I<&^'(H:>UY'$#7+$_@%-^UZCY2Q.WWKP3_;D6-.&O[4:[5VK17,Y(\:)HT.Y+>FT"MQ0*#N_2 /0S;/1.%;M_%5]RKQ=_-XL MZ*5%[0 TOU'4:ZWC%NC>[OG?
4$L#!!0 (/:!#ED86YH @0(*P% 9 M >&PO=V]R:W-H965T9+M5#*7E>%,X$]!KHJ"JO!_P@^%.[^W!5;*6\L49M]DBB)P@Y)@:QT#M\HK7 MR+DCLC)^-9Q!E]([!]_P!YA$'P!(R!>=YW(J_Q"#4WF
M2NY N6C+YC:^5(^VXIAPC_)HE#UE%F<2_PKG,C]_U@A76J/10$4=XRN6&>& MH8;)[KFJ,_FH;$9'2Y,&_9ES4X^8! !O11FJ^&KR##[&Q]:I9U;RE0*@:/]+&CD[[9;_ &5O6P%MF\5-4QL
MZN.#=1S/=)/I0J+!)?QK=6_1&9^!C*<],B+./>SIN8\?3?H_$Q!YK/8/;HJP,9G K#-K;-%W8:1SWR&!ZUG#69.W#O<.2]*!H<>H-PKX,*5!L_)S2DLA*F;J;.VXVBJ[H#_X37<^R>J@T3VMYZ
M;J'1Q7@8@*IG0VT86?I^7$MCN]MOMW:&PO=V]R:W-H965TN\1)T C.&9-T MTGWXLX% 3*D;HJ=[L0;BY_<8__T8\V^9';CXD6T8D^AIFZ39C;.1Y.S&<\ETF<
MLCN!LGR[I>+G+4OXX<9QG>.)^WB]D?K$8#[;T35[8/+;[DZHHT%6<9;EF8Q M3Y%@JQOGDWM-\$0'%"V^Q^R0G7Q&^E(>.?^A#SXO;YRA[A%+6"0U@JH?>[9@ M2:))]A__5E"GSJD#3S\?
Z:2X>'4QCS1C"Y[\$R_EYL:9.FC)5C1/Y#T _,&J M"QIK7L23K/@?'JV0P=%>2;YM@I6/=C&:?F3/E4#<1+0N2\$X"H MP*P]T* M5P5XYV8850&CX$RU@J::'WNX!)&B?9^]E
JB2ZZ2"J@+XA'Z]A"@=[^^K[1AHJ.'B_-YGHT3 /HY MZQ4)1B\D^$*?XFV^1>QIQ[-<,#U]\S3B:<:3>$DE6Z+OG\.NJ5MR_8*KU]S] MW'.G0_UO-MB?*FCM@%[MK[,=C=B-L]-E(_;,F?_VB^L/?
^^2\=RL(616 @0S M%!K5"HVL"BVH$#_C=(WV-,E[Z%-2QZR)NV];&F[ZO/N5E#R*QD]&Q6 M3'UW-/&G;IW5&/MQ/?9CZ]B _+36H)Y]7T#* DA8" DC0#!#1K^6T7^3$O+/ M7>*LZ?
MJZ#\0N>XE#^C(8 9(^DQJ?296?3ZG>Y9)M<>6F=IA)X4DDJ.#B"7C MJU67-%9@WQ*$A 63YY-FZ';)!YF5 ,$,^::U?%.K?%^YI(D2;L_2G&7H/_1 M$U9LA,-TK=HRH6OO066-(Y9UJ6GE]U43$A9
PD)(& &*&8I?U8I?617_*]\^ M,J$5/FY%M>R6;>[MU;-%S6VMH=:,?65[-5T(F8X P0PMW&'SV#F\L/[N!%_F MD>RL.3NT;]&!T@)06@A*(U T4^P3C\$%+KT*>%H,HU;M=31IU4O0T<1KE51'
M$VPV(?:+NW3P<#-XV#IXGZ*(YWJ7<<\B%N_I8\(Z1\Q*Z5T:D+0 E!:"T@@4 MS52WL3)8%)0OI8BQ :0$H+02E$2B:.3,;:Q\:U6S87E"RH95/1S&*.SM7\SVG'TU!J4%H+00E$:@:.9<
M:/PB;/>+^A>S'=A;:$A: $H+06FDHK66!J_[$1HWGA6V>U9?-X*Q-[]5VSO1 M6W10RPN4%H+2"!3-G!R-Y87MEM<%U0UJ>8?2@HIF5I W:3UA@^8D4#13P,8@ MPW:#['EUP]RL08TP4%H

2@M!:02*9LZ&Q@C#T$:8'=A;:%###'<99E=M$QLT M)X&BF0(VAAFV&V:$Y^+M[]6@EADH+0"EA: T D4SYT9CF6%HRPQWF5QMD]N> MM;=^H(X9*(U
T4K]!B=_Z*]J;UV\DI&AXN9;_OUT?;9^[>-3\)#Z_RM>[UP M.\X'[G58OM31X,MW3+Y0L8[3#"5LI5)I_\!!HGQMHSR0?%>\9O#(I5H8BH\; M1I=,Z ;J^Q7G\GB@$]0OS\S_!U!+ P04 "
#V@0Y96SW51O() #E< M&0 'AL+W=OZ5[M8QA>;*=)I)SP#FFC$YU65=4/$SQ)T,'@ DY.I/[X L8FV..)?;-T\B$Q>/:S M!YC%[,"RN7C-B^_E,^<5^;%(L_)R]%Q5R_/QN(R?^8*59_F29_4[CWFQ8%6]
M6#R-RV7!V;P-6J1CJBCF>,&2;'1UT:Z[*ZXN\E65)AF *TBY6B0$\?:%I_GK MY4@=;59\39Z>JV;%^.IBR9[X/:^^+>^*>FF\I:2U M 6V+?R3\M7SWFC2;\I#GWYL%?WXY4IH>\93'58-@]9\7?
L/3M"'5_?AO!QUM MV(=P&J=B" =@%T-\ X$*!U =IN@'X@ M0.\"]&,S&%V <6P&LPLPC\TPZ0(FQV:8=@'3W0#S0,"L"Y@=FT%5-D=..3ID M>[#WCO;!D,WA5MOC/5X/K'946JQB5Q=%_DJ*IGW-:UZT0[N-KP=CDC4JO*^* M^MVDCJNNOK R*4G^2.X*7O*L8JTV?B=NGF1/Y";/8EYDY!>+5RQ)RU_K=[[= M6^27/_]Z,:[J] UD''>I;M:IZ(%4*KG-L^JY)'8VYW-!O"V/USZ*=^7QYD?Q M_@?]IQ+ N-
[OVYU/-SO_"Y42;]D;4EELPPU!>' /MW@LW?/A\>&CD5R]?'AU/) M(-:V9Q"MY>D'>'^K2X4T+TM!3[Y((YL"X[QKG[7%5.EZJP^/B_O12%H.5-T?4-584-7T-!03&,V MF1C#EIZ@I3JC4\-0=I+
[R&T.D+!0N+6J/E,FD^$V1,)=/3$U8])O[6 8Z]MA MK'\XC&]8^4R2STF2D;\O>5'/B?5<>-W4BTF5<.%(E\)/'>E(F(6$ MV4B8@X2Y:Y@QD(&NZXJF[0I&U)[4V.B[PV'}G! D+!=M 33J93)L)92 8
M44O=H*HRI6+!&%O!&%+!?&U*PJQ6B,J^/A 5(6"C8(W2F MS:,Z9'?VC4!Y!W(QMW(Q_\C\XF$HU M7='5'=D)&JKU3*0HNS6>C^Q?@(2%IF"*K&M*96::.Y(2M*2J.E&FJBF>7B9;
MO4RD>KE?/905RZJ$I<3*5P\580_YJAI>F/B-O";5*[/*R9*]%7F:DH+/5^M+\>A&VIU3I8B$V4B8@X2Y2)B'A/E(6("$4A8!((-%#K;*G0F M5>C-
JBAX5I%7SK^G;^2IR,MRH]:4%6\DSLM*6(I*N:=.H;,]?:LFW9.WM=^, MFMI>,QO9-0<\)B!M;RA-O3"J"%2J?1J4Y3I8JDF9U MM.8G4616!TISH30/2O.AM !*"Z&T"$4;*K6W@:AR'\AMDB6+ ME?
BCCSR9/U!C2!0F@VE.5":"Z5Y4)H/I0506@BE12C:4*6]RT65VUR&\VF^ M;*Z_LG0SF6XOR0HO_'3HV6"FVKG]=2//?[(ZH>X5*,V!TEPHS8/2?"@M@-)" M*"U"T8;]["TUZ@>>&E:UNDS*:>RJY^
M9;=4NCZ\E[%Z9NS*&.G1L* T&TISH#072O.@-!]*"Z"T$$J+4+2AC'NKCRKW M^MRR'P=+8:B1!TJSH#0;2G.@-!=*\Z T'TH+H+002HM0M*%*>X.1*O>:?*H4
MG@A*X;TY%.H/@M)L*,V!TEPHS8/2?"@M@-)"*"U"T8;[U$JMQ!]'-*X>F> MC.FNB*!.(BC-AM(<*,V%TCPHS8?2 B@MA-(B%&THXMYCI,I-1DY>\)B5PH^! MR$-/KH21- M*LZ$T!TISH30/2O.AM
!*"Z&T"$4;?@J]=R?1X]U)K060M9:(M>F;=?/BQN\LJK(7E\%.%#*594)H-I3E0F@NE>5":#Z4%=-]X-E4$GO 0FC9" MT88:[5U*5.Y2.FR$^ .*A5J7H#0+2K.A- =*IN@-
!M*YL^<[M5CCY9QE!0$Y1F0VD.E.9":1Z4YM-]4]N>-S6 I@RAM A%&ZJS MMRQ1N67II]QNE??A9!E#S4]0F@VE.5":"Z5Y4)K?T:3>U ":,H32(A1M*./> MTT3EGJ;W5?%A$Z(<E.9W-(E--8
F#*&T"$4;/IZ@=S=IRHX7]33KTB6B8EFOIC=\]*6S!BZ?V^7<;DW#HH5=S;MHP/D%-YQPM@>F7'14Z5'HJ]+0L!-*E >69CQR%V3E-F+6;5 MW(-8S'BILI3!@T"RS',JGI:0\=/<#W9&XY)B#
((%:&@>K' M$5:0989(A_%OPVFU+@WP\OW,_FN5N\YE2R6L>/9WFJC#W HME,".EIEZY*?? MH,DG,'QPSV3UBTZ-K6.AN)2*YPU81Y"GK'[23XT.%P#O.0!N +@#P/@9@-< MO)=Z\!N
_U(/00.H4K?KW"QA(JKH8B;X*0ECK=G,2Z5^A=9ZI@18KYG:;UY+$$KSI30NRAU/.J 5E4D("3Z12_E!65//TFDN**9 MKI::8OND _N'"U0(GI2Q0L:71*\C4#3-Y)N9K73 QJT=-\$MZ^#P,\%YZ+T.
MXR#1FB60#."C<3P9P=M:J%8M?%9KB4<)_RC9'?*=NHUO\[JBOQO+;4O(K7?X;WSS+?@D!\-U@FGT<"7M;$045L M;K[C L_LXZ70HZ[-97LO"QK#W-*WJ01Q!&OQZ@>7.&^'Y/ZJN_6-
W%WIZ+VLN[%]=4]=S.C?2 MJF^&24 FG=*,^F:$$-?I7O=2M}N*_Z,-TL[:L&6**8ETS5_Y/M;-MCOZM: MR[\TKU?N0/SD>[}ZQ;Z/_JZH7]/A:Y>B3+8:5?.W40?#U$WR?5 \:+J K=<
MZ4ZN>CWH[PH0QD"O[SA7YX%QT'ZI++X 4$L#!!0 (/:!#EF0*!B ^P, M %$5 9 >&PO=V]R:W-H965T(;F)GMH'VW\]VTD!2-X4N]VZH@L0Y MSW->?=+CR8&R+WP+(-!CFA
^M;9"9&/;YN$64LRO:09$/EE3EF(A;]G&YAD# M'&E0FMB>X_3M%,?$FDWTVHK-)G0GDIC BB&^2U/,GN:0T,/4Q"_92LF[^R2)8I3(#RF!#%83ZT;=QRXO@)HB=]C./"3:Z1<>:#T
MB[KY&$TM1QT"81"46#YLX<%)(EBDG;\79!:I4X%/+U^9O]9.R~=>< <%C3Y M(X[$=FH-+13!&N\2<4?)(A!:4"":SR*4]8HL6 MVA)@'"7DHS3#Y.E[CH@L9(X3X C+/Y0!"X$(65_HAR4(''?
\QXDMI)5*EQT6 M%LUSB[Q7+/+1K=2]Y2@@$40& _+(9WV_VS(Z98B\YQ#-O4;"7W?D&OG.%?(< MKVNP9W$^W#>Y\^^T!^_67@F&7];+K_FZ;]2+S+7N4B0$!!^2>(-UZ1Q+P)3X
MG'JDJ54'V_6;$LLW)8(FB8K/W=+G[CD^7\E-HEIO3#9H=>+^I]+] M*Q0\9K(#0H0^QZF2HVMT+Q_Q-0YS@7N!F4!RJP+Z\^8QYG^-=6([SJ#CN*:8 M-9JF7B-CGN$0II9\3W!@>
[!F'[YS^\Y/IDIMDVS9)EG0$EDEO[TRO[VV\KMJ MK._>B\ISKMUAK<0;;;DT!^=H#%K26(EMOXQM_YOM'0F,J>F-,&^VH8]2_48P M[8A&Y*79>+<904MF5%(T*%,T^(_;6T_VME?:6Z-IE[:W-
LF6;9(%+9%5\CLL M\SO\-NUM:&@V0Z_6WAIMN30'YV@,6M)8B>VHC.WH?]#>FFUPT1-09MH/C;A+ M<_%.(X*6C*BDQW6.XXW3:->*QD1T8M*143<6=3/^T@[4*MNR5;:@+;9J)DX& M3??
K30X%=[43]'JUWF.4&OFCRJ&PO=V]R:W-H965T,?Y=; DVB\DE)N) M-;10"&NP;0*0&=MP*Z):"KG2E2T3[X6.+IF+,=XGFT8LLOM)D:K=(G-_ W ME>3J+5$X.5W"%F@&: D!BR@I^H*&:,&HY*I3A-
(C-VBAE0 7Z!K-PE#'X1A] MID7EY:B//DA,8O%)A7Q;^>CCAT]C6RJ)>4-V4,J9%W*\,W+ZZ%XUO!'HCH80 MUO&V2JW*SSOD- >,A+]F] 9UG"OD.5ZW0< "#/-#AWU5S59\Z%7 M^=![FP_-
V5\AR:0:U&K<4X&+:3GE)(F5XJ6>B<".SVG)K%PQ:CH4E=ZS:Z< ML:5?V=(WVC(+ IY!B$I[!"(4W>T#$ *Q-9J36 &BQM+HORR-D>.,^L\\>!GF M]GN#@5L/\XTJWSE$!I4'@[>5QK(:(@\G1?
+EI$CN]JGZ9BN_OI(DCU,>K=0K ML2Y*Y@JI28I+I+Y&@/Z8[8GX\U9/OM?.X-IQFVPT2KNP1A9MDODMD=6Z9%AU MR?!?ZQ(%)"QL\MZLH6_X/!B1EQK=$EG-
Z%%E].@_KOV>*OPSM6^4=FGMMTGF MMT16ZQ+7.2Y+G?]!];\BPD5/@'F3TV;@I5:WQ5;W^F0+X!K3O-M+R)?;A]4D M@<:OG9GETEIME;%U+;'7KCCL:U[P%^6>+ M\Y+\=&WU?
7Z>HAOEOA>"X[;$]>\/_ER=W\H'*$WWSN\A2@C(2"!XS.#L42H0#&L%=2Y&2BAO#A3*VXD2_4ITR.3DB7Z M<@,X!)X'J/=KQN3A)F^@.MF<_@U02P,$% @]H$.67@^H]I& @ G@4 M !D
!X;"]W;W)K&ULK51K;],P%/TK5I 02*Q. MD_1!22.U'6A#3*I6 9_=Y+:QYMC!=IKQ[_$C#=WHJGW@2^/'/>>><^M[TU;(M!U4":/18,:[F0:EU/<-8Y2541 U$#=S<[(2LB#9;N<>]ED *!ZH8CL)PC"M"
M>9"E[FPMLU0TFE$.:XE44U5$_EX"$^T\& ;'@WNZ+[4]P%E:DSUL0'^OU]+L M<,]2T JXHH(C";MYL!C.5HF-=P$_*+3J9(VLDZT0#W9S6\R#T H"!KFV#,1\ M#K "QBR1D?&KXPSZE!9XNCZR'
W'>C9P.= MGY'ERP53[A>U/G;T,4!YH[2H.K!14%'NO^2QJ\,)P/"[:]*$,O7>A"@;JE*L37[+@O,NU]+GBE[(-49W@NM2 MH<^\@.(I'AO=O?CH*'X9723\VO !BL,/* JCY(R>U>OA\04Y<5_+V/"%KZKE
MN?IX?'(>;QMVIFJ2PSPP':E 'B#(WKX9CL-/Y\S])I(G5I/>:G*)/5MP3:* MRAK;A!<>A&<9.18[4 [9,)PD23*9I/AP:N;?P.EX!TG41_G=>*3IUZ!W+L) MH% N&J[]P^E/^R&S+W%U!'QIAH^?
%7]I_.2Z(W)/N4(,=H8R'$R,*NFG@=]H M4;N&V@IMVM,M2S- 0=H <[\30A\W-D$_DK, 4$L#!!0 (/:!#EDW\!PS MO (*,' 9 >&PO=V]R:W-H965TP6YV$\MUWH9N&/KC38#=C(I
MZ1KN03^4"XD]NU7)6 %<,<&)A-74^N*.9['!5X#?#/:JTR8FR5*()].YS:;6 M8PQ!#JDV"A1?.YA!GALAM/>3:*0VQVWY1OZZR8Y8E53 3^2/+]&9J#2V2 MP8IN.\E^ W!KX+6SJI8">(X7]-
!GI^ES2)'N5G3_-=W&Z&U^K\WO57K^._/W!:H5 M@GX%<\S&JJ0I3"T\1PKD#JSDTPR U\|\#@,7XI.7W',FX9UJZ_M"-#O?E M,7#DX+
[TG0./=J>$FNOK!Y5KQA7)885,YS+&G+*^$NJ.%F5559="8XVNFAN\ M14$: 'Y?":%?.J90M_=R\@]02P,$% @]H$.63BZMRDG!0 =R, !D M
!X;"]W;W)K&ULK9IM_BL;M=.YF^(T2@YSPK^&*R$V(_FTYYO'-YQ&_IGA3RRH:R/!+RE&VG?,](E-1&>3;5 M-YE%:3);SNFW-EG-:BBPMR)HA7N9YQ%[N248/BPF>O#9\2K<[435,E_-]
MM"6/1'S>KYD\FW:4),U)P5-:($8VB\D=GH6Z5AG4=_R3D@,_4;54+Y0^K4Z M^3U93+2J1R0CL:@0D?SW1%8DRRJ2[,>W%CKI-"O#T^-7>E@/7@[F2\3)BF;_
MIHG8+2;N!"5D$Y69^$0/OY%V0%;%BVG&Z[_HT-QK:Q,4EUS0O#66/..#&0'+6!WAKHYP;F&P9&:V",53!; W.L@M4:6&,-[-; KGW?.*OVM!^) M:#EG]
(!8=;>D50=UN&IKZ>"TJ)ZL1\'DU53:B668/I,$W7%.!$WG3YTX;,?T-,0,]T$+L. J* MA"O*>W_8WAZPG\]!=Z/77T=_KP\"_RB+6V1H-TC7=%/1G]5XLL*@2*B@0%W\IT+_.04#TK
M#5<%=8&8M>0ZKOVM,2695B>I\VG3ZX3V9\XC:K/L9_);B4H+5#5K30F M*M<[%QWR;$O3SO/*H/RUGA^G&4!JAI>:ENN>:O;\[G9^=P?]?II!$'F6I0E7 M>MF]4-<-K.OZF9?
=R]2'L6>8_=O\2YJEZYIY1@LN:3HVC9,TVGAF<(3__/G M=?[S!OWW-Z6R:5O/:QZBHMS(HJAD5NTL!Q+F0\("2%@(!.N%&6O' MBDB#GJSY,7#1CT&K?E":#TH+0&DA%*T?
YV/ICT%J_Y;2FSRZAH=M\SQ7@A;_8V4# M4-E0(6M@6[>]-^I0?"S_\7#]OZ+YOA2$\?J%6IE!:"T$(K6C_-QU0./6?;X M?@:]+/YMQ\.&>YY 054A8MNTX"@C&RFE MW3HRR[-
FET=S(NB^WI7PA0I!_IP1Z*$L.H&>7U#J7@]J02ZO3;+_P!02P,$ M% @]H$.6&ULK99=;]HP%(;_BI5-4RNUS:=#8!"I!4WKU&VH7=>+:1=N. E6DYC9 M#K3[];,=B* $Q@:X('9\WM?G\6?Z"\:?Q!1
HN$O M5Y"SQ .Y/ULS%7-;EPFM(!24%8B#NG NG1[PZZ_ M-P'?*2S$6AEIDD?&GG3E>C*P')T0Y)![4#48PY#R'-MI-+XM?2TFBZU<+V\ MKVMW;X?ZI*B^0[YPAS_&"%OEPOWP$B9*
[1NYORFW% MV7?QS@J&&(]@\P"-%#ETE2%55.)$S09<&XI+^)OC#;N*)M+A=' M;F=KZ[<$8MSU?(S;A[W;I-S]OZ.I>]C1M!VVXVBRUVY*_97RF?",E@+ED"JI M<]%1C+R^^>N*9#-
S>3XRJ:YB4YRJCR7@.D"UIXS)547?Q\WG5_P'4$L#!!0 M (/:!#EE17CW<9P, *&PO=V]R:W-H965T S3WG^!?8.YH2]DC7P((|)0FA(^UI1*KH:[S< DIYA=T!4O^ MF5.68B&';*'S%0,<9:
TT2W#\/04QT3S1]G<#?-'='V2F, -0WR=I@]7T)" MMV/-U'83M_%B*=2$[H]6> %W(.Y7-TR.])(EBE,@/*8$,9B/M8DY#$Q@ ;*(M'S%L^=X]4JD\4/JH!E?
16#/4BB"!4"@*+"\;F$*2*":YCM\%J59J*N#^_8[] M4Y:\3.8!58ZVLH@CE>)^*6;C]#D9"K^$*:\.P7;8M80T/AF@N: M%F"Y@C0F^14_%4;L 21// < J -9K@', 8!< NZV"4P"T=Q1OIFW^2:,,L;])UJV.S?,--
S[7[/ MJ\8%^?AE72=HMDW:;DR9D+5]">#]WR'-'9[,[/V59.3GNKL0S3,(Q7 M'C1J'UMH[32#CC0K;GJEF\YI;EJU;GKMW&S4/M;-=II!1YH5-WNEF[W3W+1K
MW>RU<[-1^U@WVVD&'6E6W.R7;O9/<].I=;/?SLU&[6/=;*<9=*19<7-0NCDX MS4VWULU!.S<;M8]ULYUFT)%FQ4W3>/E4-AK]5)_%JN5!&YRL:X_=@F#_!+0< M6YZ\
[JLC==HL=:QJK76#KG1S" 6]QB,%ML@Z/HY"NB8B_ZXL9\NN&ULQ37;;MI $/V5E5M5B51A MQQC3I,82Y*)2-1(*2O10]6$Q UYEO>OLCB'Y^\[:X-"*^*%2U1>\ESEGSEQV M2+;:/-H< -
ES(94=>3EB>>'[-LNAX+:G2U!TL]*FX$A;L_9M:8 O:U A_3 (M8K_@0GEI4I-3)KH"J50,#/,5D7!S!] M3.T\UN6I2A 6:$5,[:>>.SB\G0V=<&#P*V]F#-7"0+K1_=9KH<>8$3!!(R M=
R5WL<1\Y'WRV!)6O))X MI[=?8!?/P/%E6MKZEVT;VR%YS"J+NMB!:5\(U7SY\RX/!X P? ,0[@!AK;MQ M5*N\XLC3Q.@M,\Z:V-RB#K5&DSBA7%'F:.A6$ [3J=J 1 7$A[FOA(;IRQG^TH)PUE^
9ES&ZUPMRR:[6$Y>]XG2U&L.]QDG82?BU M4CW6#SZR, @C=C^_8B?O3SMX^VWL_9JW_P;O]5,E\(7-(:N,0 &6G<7!YXZHHC:JJ(L)G18E":TKFN7CI0#J)C= +IE3*< X M
[I?:8W[C7/0_G.EOP!02P,$% @]H$.65R/234\ P 50L !D !X M;"]W;W)K&ULK59=;]HP%/TK5C9-K=0VB0-)Z ") MPJ9U6C=4UWW932X0-8DSVT"W7S_;"6D DZ[5\@!V0\H3EB,!]8(_=R[&
(%T!$_$MCP1ALI* >4/JC.=3RP'*4(4HB$HB#R M;PUC2%/%)'7\JDBM>DP%;+:W[!^U>6GFGG 8T_1G$HOEP HM%,.? MH#+457P13;G^19LRMB.#HQ47-*O 4D&6Y.4_>:P2T0!('C, 5P"\#_"/ +P*
MX&FCI3)M:T(&&?89W2"FHB6;:NC<:+1TD^1J&F>"R:^)Q(GA-[$$AD:<@^#H M9 *")"D_1>?H;C9!)V]/^[:0HZA8.ZH8KTI&?(311S*MQROF^:A).LV]&/G MN/YNK; ;JO\[%21%SV0=G1"!(LJ%
<<5W#X09\ ]LV(Y^O];OOS[__L&0H1N& MH>_M23/$.0$.O2/:@EI;\ ^Y;1XB)I"!P>]' 1!N*?Q,,QU7/68-UQK!5 MXXS.Q88P0!-8RVNK4/-M4MG*\M*E_)_(=@SW:L.]Q0N6ZYZ;)Z=GR+IC6-R'
M<6'0/;JX7>?I G)>O[S;L2^=E(IMQRMN\="X1-U6#U^ \TLTBJ)5MDKE*1.C M44:92/[H<\9HS#V0REW13H>W*+]XZ(QD^B\2N7R1GZ"L8M4C$V;QBU MD0]VLB'.\PT[V6X4+AFPA:
[GN#R'5[DH:YCZ;5TSCG2E9#^%EP7G#6&+).!S!@K:[BR(VBARZ!*[F11I9M+6?<"4P'R^YQ2L>VH >I*>O@74$L# M!!0 (/:!#EFD8[4M6P0 $'@ 9 >&PO=V]R:W-H965TO
M([',LQ_KDC*#G/#-EXN?*>;K2POF(M9@3?D@MW_-Q\$"<"Q>D7.(W >2T8O2-P&X$[-,.H M$8R&9A@W@O%0@=<(O*&"22.85,6J/]VJ-#Z6>#'C[(!X&:UHY4%5WTJM*D+S
MTHH/DJN[5.GDXIO<$HZ60A IT!]HF22TM A.T>>\-GIIF \^D9BFXJ,*>7SP MT8=?/\Y,J=*7$#-N4JWJ5,X[J5QTQW*Y%2C($Y+TZ'V]WM/H3=7MMN_.2]7 MCA;X99=?(=?
Z'3F6,^IIS^UPN=O7G]NE'^H*C@;93M3J?3ZVY8J.WKN64'GX7*KX5E\;1EN>=T MCR5!MXP7C%?5Z2N$%G+N5Q<2YD/" DA8" F+@&
=CTQ:CTPN&MEE7EO,JJ+U!;G});>NXCF!IB_KX%:W4US1!]NGE,9JPL*G/_L M72;0DLXM+2C-!Z4%H+00E!9!T;I^.5EWLB^:]!LYE$D@:3XH+0"EA:"T"(K6 M-8ES-(ESX>2O!YQM$V?
0O.B#9@T&9@U!LT90M&YICPM^MG[%[YWY OV'[O S MS799;[5!U_] :3XH+0"EA:"T"(K6=]_+:L?WU?65?7-K]USW[9N@WMD^XNN-]CO,-S07*"5K MEK^FC'Y&PO=V]R:W-
H965TOZV8%+0#68V4[2 M_OO9AJ(TT"B3]@7\N.?XG&O[.MXQ_B@* (F>*EJ+J55(V5S9MD@+J(BX8 W4 M:B9GO")2=?G:%@T'DAE016WL.*%=D;*VDMB,+7@2LXVD90T+CL2FJ@A_O@'*
M=E/+M5X&[LIU(?6 G<0-6<,2Y'VSX*IG]RQ964$M2E8C#OG4NG:O9I&.-P&_ M2]B)O3;23E:,/>K.]VQJ.5H04$BE9B#JMX494*J)E(P_':?5+ZF!^^T7]J_&
MN_*R(@)FC#Z4F2RFUL1"&>1D0^4=VWV#SD^@^5)&A?FB71L;.19*-T*RJ@,K M!559MW_RU.5A#^#Z;P!P!"\"G KP.X!FCK3)C:TXD26+.=HCK:,6F&R8W!JW<
ME+7>Q:7D:K94.)E6Q+)443VFFW[$V[+'YCV1^;^@)YS$'>R/P&?'X7-(%=PU<.\U MW%8)Z+. ^RQ@P^>=F(4QO0RV#\Z@+]N5:$@*4TO=)@%\"U;RX9T;.I_'[/TG MLE=FO=ZL=XR]-_N@;JE
I,[0'5 BU[KL: MAKF1ZT9.U,>]$NSW@OV3!"\XRT'H^D$H6]JLE.GX5K5TP;Z.P T#YT#N,,P+ ML>LXXVJ#7FUP8GHY)[5\1K_W!D@WQO\L8YB7HST5$SOY@D=$Q[-#R7ZI'SG=X_3?3Y(3+X/4]
(NED^YY[KF3[_)6FQ=; M 2#92Z'L/*H0ZUDV5KD&YFXTVDJ(SS3:VM0'* DB*.$V2+):4JZC(MP]FC*7+=H. *'@VQC934O"YIZ'8>C:+CP1/?5N@/XB*OZ196@,_UHW%6W+,P
M+D%9KA4QL)E'B]%LF7G_X/"+0VM/]L1GLM;ZQ1OW;!XE7A (*-$S4+?LX!]$ M\$1.QI\#9]2']#3_9']1\C=Y;*F%JZU^,T95O/H6T08;&@C\$FW=W#(9^KY M2BULˆ)*\VYVF$2D;BUH>P$Z!Y*I;Z?
Y0AQ- ^A8@/0#2H+L+%%3>4*1%;G1+ MC/=V;'X34@UH)XXK_R@K-.Z6.QP6B[(T#3!RNW?/;,&2+V3!&/<5HX+Y5IT?5RW20 M\&>CKL@X^4S2))V0Y]4-N?AX.<
[[JL@#KSC=U;C7*H=P^0\@^^AF:UI"?/(M-8D%LX.H^/1AE"7?!_1->GV3(?9B!3LP5)5 2FWQK+R.(L$OB-WQ624I--1 M'N_.!)[V@:?#@9$J1@TCM=&L*9&TU#@A^$H0C#RG8YAOE!(9?
HF!HF2]MFR0 MZW:/X/^KJVL;YAO4%I^TF@2S#0/%NN=H%'9=UY_V,VO1M>H_JV[@/5"SY

**&ULI95M;YLP$,>_BL6FJ976 ":!I"-(3=-IG50M2M7UM0,7L HVLTW2 M?OO9)J'92M&DO0$_W/WO=V=\Q'LNGF0!H-
!S53(Y=PJEZDO7E6D!%9$C7@/3 M.ULN*J+T5.2NK 60S#I5I8L]+W0K0IF3Q'9M)9*8-ZJD#%8"R::JB'A90,GW
M<\=WC@MKFA?*++A)7),<[D$]U"NA9VZGDM$*F*2<(0';N7/E7RXB8V\-?E+8
MRY,Q,IEL.'\RD]ML[G@&"$I(E5$@^K6#:RA+(Z0Q?ATTG2ZD<3P='}6_VMQU M+ALBX9J7CS13Q=R9.BB#+6E*M>;
[;W#(9V+T4EY*^T3[UC:<.2AMI.+5P5D3 M5)2U;_)\J,.) \;O.."# [;<;2!+N22*)+'@>R2,M58S YNJ]=9PE)E#N5="
M[U+MIY*K-!4-9.CF61^S!(DNT'5!6*Y'E*'C[B,1@C#U@GYL2IH34T^)SI:@
M""WE>>PJ36+TW/00==%&Q>]$#=$=9ZJ0Z(9ED/WI[^H,NC3P,8T%'A3\WK 1 M"KS/"'MXC![NE^CLX_F ;M"5)
["ZP3^6IR_55F'$@]&3P@HM 24J@V(%#@V]H$?0FT(4(;PESB7>)/IW@\ MB]U=#]JD0YL,HJTA:]
(61/<.I*^WZ0CY$97V%[/5G)RP7/AX-@UP/TS8P82# M,*]!T:V4IF++1AB:%0C*LSZ2\ U)A&>^U\\1=1S1?
YV7_HZA^X[[J**W9Q7X M 8[^PG)/.D(%(K=]3Z*4-TRUS:%;[5KK5=M17LW;OGQ'1$XU70E;[>J-(ET2 MT?:Z=J)X;?
O+ABO=K>RPT+\'$,9 [V\Y5\>)"=#]<)+?4$L#!!0 (/:! M#EF$T9.>Z@D #EG 9 >&PO=V]R:W-H965T2&.)"$5JAR-?
%OWQY4TB MAZ1&9O"B^9!8,L\SE/UDR'D/1=V\)N)'NN5WHZV4^_C<;K:\AU+
MKY,]C[/O/"=BQV3V4&S&Z5YPMBZ*=M'8,HSI>,?">'1W4SW).YNDH.,PI@_ M"9(>=CLFWK_P*'F]'9FCXQ/?
PLU6YD^,[V[V;,.77/Z^?Q+9H_&)L@YW/$[# M)":"/]^.[LW/@6/G!<46_P[Y:]KXFN0OY7N2_,@??%W?
CHQ\CWC$5S)'L.R? M%_[HR@G9?OQ1P4=G<;,"YM?'^FT>/'9B_G.4OZ01/\)UW)[.YJ/R)H_LT,D MOR6O
:]>T"3GK9(H+?XFK]6VQHBL#JE,=E5QM@>[,"[_96_5#Z)18-IG"JRJ MP&H7.&<*[*K ;A=,SA0X58'ST1$F5<'DHR-
,JX+I1T>8506SCQ;,JX)Y\=LM M?QW%[])EDMW@B.25B'SKC)9_40A15&>_PC#.W5U*D7TWS.KDW0/;AY)%9"F3
MU0]RY7+)PBC]A?R=_+YTR=5??[D9RVR8?./QJD+2$FF=04[)8Q++;4J\>,W7 M:OTXV[W3/EK'??
QB:8&/[)T8TT_$,BRG9W<>]-6_)2_766E1;O>4NY<'-ZVB MVNJI]BY5BVMBG"^G^O)?#_$UL<_ON__Q\KZ?7* O=_DJ*S?
[1E=^C_;)-;O@ M.6=X3]FTQ(7@:Y+FMGTBZ98)GA)VD-M$A'^V92G=T#+SJ?USNF3K'& M.5GC#+-
FSP1Y8=&!]]FB90VU!0ESD3 /":-(F%_"9@T+C&O#,%NN7-I*,65R M,F6B-
>4AV>VRTZ$ADXL6.%07),Q%PCPDC")A_J0S:9B&T3N]?&1+19OI29OI M &VTXL6-%07),Q%PCPDC")A_O1#L\NEK11-
9B=-9L-GES!-#_TSBQ8V5!4D MS$7"/"2,(F'^K#-?3*>&[-ECC4&B3,1<(\)(PB8?Z\1P9G,C$6LY8U/1LZ,VMB&O-
^:Q8G:Q9::[RW M/5_)[&QWQ=(M2=E+9@I9'SB1279L>A=)%)'L9/A01C][D6P$V_6I5 XS;>R@ M9?8<5Q^TNS/4$B3,0\

(H$N8C80$(IMAF&G7^8VA]HRP49,?$#R[+\QZ2/)=S M%F&O3*S3/KE$:A-!]*"U TU2FK=LKZ@%/)ONQ^7%3+
MZJAES293TYRVW=*..M@M),V#TBB4YD-I 8JFNE5GU*8^I-8<#Q7A>DVS.X=% MXWJQ:&L&#:&A-
]*HU":#Z4%*)JJ61UJF_I4^WZS$7S#)&](]I' 4H\=ND*$ MTEPHS:MHR@*FM_% H>/Z4%J HJF:U8FXJ8_$E[E3V7IQ?
Q"K+4OY<<%()!>] MJT8];[!?T$@<2O,N_.1,\LZ9Z)W5H $XE!:@:*IN=9)NZJ/TITJS-)_/I. L M/8CWZNAY%<;5%-
=W3<$7/7FP>-!P'4KSH#1:T92^B#GI3)(^=-0 15,]JZ-X M4Y_%W[]PP3:RY**>I7J^@^3R4YD)I'I1&*YJZ,#+LME?
(,0,43?6JCO%- M?8Y_[/Z4)_5;'JU)=@ \'A-[Y4*FR@]0F@NE>5 :A=+\BJ93OU6L+WM=0H;$#U":"Z5Y
M4!J%TGPH+4#15.?JJ-[21_7_?(VY2+?A_CB)]7J'#) ?*EISUFEUD5SH@!Z4 M1J$T'TH+4#15ICJ;M_39?
#V!L8W@?'=.)^@EXU":"Z5Y4!J%TGPH+4#15//J MN-[2Q_5EQ_%KT6,DAWB=+1(;1]/BF\?LB]P?W217R_-YEW[
P9(ZW13(7LPF M[1C(A0[K06D42O.AM !%4_VKL:)/I3F7GB5 MDR)S[WM5'G0_*)3F0VD!BJ::5D?XEC["_]-
"1*93F0VD!BJ;J52?WECZY+QN2JSQTE?DQ\GCA3GYYZYK) MWM15CQPL&33-M[I7CW?
<@D;T4)H/I04HFNI6'>5;^BC_,8S#W:&WK:VO'*P0 M-+B'TCPHC4)I/I06H&BJ;77 ;^D#_JZTOT^_1 M%GW!:.LZ,?
WX@RV#)OA0&H72?"@M0-'4=\S7W0!;WPWXEE\BEOF5'R59O.I< MG4^R%4'SZL3T^%Z1MH>ZMXK8W9S>O&[%]
_Z'1VJ(Y3F06D42O.AM !%4W6L M6PBVOH50'6+)?\D'LS@];^B!%TISH30/2J-0F@^E!2B:ZF#=4K#U+86OS:FP M"-
@^YZ,1UG:DTZ*UMH)P-*HU":#Z4%*)KJ M7=W)L/6=#/C*%OI&!BC-M;N7[3LSV['G[94MM,$!I?
E06H"BJ3=WK1L0BS(2[)T^G^[P6U]/UB:5'#14+2G.A-]*HU":#Z4%*)JJ7]W0? MNB>U'CI81&A7 TKSH#0*I?
E.]YY1SF)JM4+*X.)FJCIU'\+1]R'.J7/^3D1Z MX&!MH+X?.#]W]_L+=P354P<[VT30&D> ME$:A--_I-D0ZSN@V*9T9-
SZG8\>S4^G\,UM2LDH.L2P_LN/T[.ES8>Z+3T,9 MUYN7'RKSF)V)AW%*(OZFV]NJU=WJ/KK) %:3.&<;*/_^;">$
G;1>P7$B>>9YYG)AY[&&T8 M?Q9+ (E>\JP08V_! %TNI'[B344D6\ CR M[_>JY';H*0TAT)05B .\[%S@Z]G.-
(&9L8_%#:B=8^TE"?&GO7@]W3L>)H1 M9)!(#4'490TSR#*-I'C\5X,ZC4]MV+[?H?]BQ"LQ3T3 C&5?:2J78V?@H!3F
M9)7)![;Y#6I!H<9+6";,+]K4:D#T3+PPU<,_-K M?Z]!4!L$1FC%S,BZ)9),1IQM$->S%9J^,;$QUDH-+70:'R57;ZFRDY-
'R9+G MJZD*1(IF+%=?AR FOE?HL9FQ M+<#AU"OT(W*16!(.8N1*Q5=[=9.:V[3BYK_"+4*?62&7 MT5*:0=]C.[/?8M M
*X*5!,M?Q>MJ6]%_&-5]%#@?4*^Y_>["-G-;R%1YMB8!Q8Z09.\P. %K^#] MM^&T%7B6I0D@;&CRH
O@9G\M,/.)^[M)W(; #M?U& M;=^&/OFRDD*2(J7%XA.:PH(6A;I%4Y*1(H$NZ15>:/!T/5M/_"'&@3<8N>NV
M*JO?,U6%C:K0JNI73@K9^75/PU/Z8> /8WQ$W^K@3/I10S^RTK][9Y0T2T@ M.A%PA;UA$!_QMWHXDW_<\(_?
X%]2KFH?XTAM"W.@K^0B/I72]X,@"H^T6+V= MJ670:!F\?X'-QS&Q^DYG7>\B@[8#ANV0VOQ^FIV6!7ZFS5P M=6)
NT\)W7/:S7AXR5)V(; #[=C;;[O>A8M9#3AHY2'N14>YLGL]5U7K,('/ M+6:U)<8M_K@7!,<"K [.%>#O!?CGE[/:]DT)5A?
G2MB?";!U$WYW1:MA#M3$ MO<'P6,WWV/+Q?L_'W[#IOUW3:K3V(NGW^B<9.IW57DJ'5/<;.0Z_K:]@.ZC
M-.,_Z1S0AW^!K_/&J_:P&DI6F@WMB M4O6#YG:I6G;@>H)Z/V=,[@;:0?,GP.1_4$L#!!0 (/:!#EE#22>9'@@ M $U! 9
>&PO=V]R:W-H965TR"DZ !G#5.TNZO7QM(B EQP\RC[83;&EN6-^4'LJSUTB=RBMC/]2;/Y+'D:5*1#,:"R5!Y)\]7=
(L4TJR'/]I1$>GG"KP M_/51/:I.7I[,*RGIDF5_I8G8/(ZF(Y30%=EEXAL[_),V)U05,&996?U&A^98
M:X3B72E8W@3+$N1I4?\E;TU%G 78SI4 W 3@;L#D2H#3!#C= /=*@-L$N)T M?"W#I
F8W)K!:P*\JN[KRJIJ.B""S!\X.R"NCI9JZD6%JXJ6%9P6ZLIZ$5Q^ MF\HX,7\1+/[Q92'9)&C) "I)FY>_R MD.\O ?
KTV^\/8R&+H@3'<9-V6:?%5](ZZ(D58E.BL$AHTA,?FN,]0_Q85L&I M'O"Q'A;8*/A$WI'E?4;8PF[?
Z9BC_[4K[I!C70T/;@]W^BKCU]')'/YU=JTKG M=$DYE9XS]))ZSDA1]I1O4>NY_7JJ;
[TOMR2FCR/9>9:4[^EH_O>_V9[UCSY2 MD&(!I%@(*18!B6F$W1-AUZ0^#]\HC].2O&84L:UB6R(Y:I6"%$E:K%&Y(3)I
M'VFC[E#2M=BD$E,CZ'Z.+5]>Q/;#>'\.$3)I>&/2""BIQF=RXC,Q\OFK&D]E M\R-[RN7\ -$:&$5;GL;R-^4UH_H#&4?
KSK/].QL[3O'T4]U>7F0?Z^4\!*Y**]'?^RBA+SW55@$5"R-OG^B[QO+^;W0 M@9YWCI\-
O:-1=2AD_[*CFCG^;.)U&B9DTO#&I!%04HW.]$1G^@MT/N@[^[9 MTPW%!BD60(J%TXM.%]^Y7;!
&36PLQ/8V4^#18?K/7*6KBCZ5'4M?4N9A3'K M4+Z08@&D6&BNW%G3]_K'OM>
[VO4"E4J[!FRK7=!:'UP%G,9L7:3_E;!+M1:1 M0^[9*H2^J=>]#=FL/)1TH^:=-1AWZGB>ZW=Z8-"TX:UI(ZBT.J.D6J
ML%60Y PU97V^P,*L.I@1I%H JA9^4']VU2 1/K9'&U]MD%#ETDGCEC3^8+FX MI;$B'9-R@TJR5YUNLJ-
(,+0E[YQEF82?[&JO<\GY%Q,8VYIY4V_2)0?IR@2@:B&H6@2EII-KO2#;; ;]R03) MSJBIL>]H'\AI:*&FK3R05E4+,'
M5"T$58N@U'3*K3%DF\V+YPJ68KOJF^PT/>Z1]ZY(**]P5U;ME]?J5J92T M$+W
S=GMXQJM=P4*:@B!JH6@:A&4FGY_O_6%L-D7>JE8UK>E.X90G.T26E;$
M,Z9:NKHMDQ:QQ)WN*=IFQ&@;F1,/M23PI7]CN[[ESSH+I*#O0&OJ6%[G1EC8
M[#9K'@B;VF^ZUW4FR,'UQZHH0.J%H*J M15!J.M'6U,$8>)<'AC0^EJ!J :A:"*H60:GIH%N+!YLM'CEVJHY0.;2GN9&<
M,I4D(_R]]>WZD=?2,\T>Z,Z"S/D'DP0U>D#5(B@UG61K]&"ST?--+5 D0[6R M)')TZWIUB''-
]RF/)FV7MHP@:I%4&HZR=9APF:'Z?\SZDXOD-N7$RU0NPE4 M+015BZ#4=.2MW83-AL^"2;"*P0 T:0BJ%D&I
MZ6!;/\FY>7N187N*660PM&PO=V]R:W-H965T)I=@,=*NFC39[^4SLB8W"Q0LX MEU5_?(=+C ?CB=F\[9?$=CC/
%04Q1K&/E!/)B467P+VF.V\)L6AW";)??'FP^)BH!1[Q$(V MSPN$SW\]L!D+PX+$]^-;#1UL#T8 L
MV)V_"?./R>/OK#Z@<@?G29B5/\ECM:VM#\A\D^5)5 ?S/8B"N/KM/]4G8B= M-0X$:'6 U@XP#P3H=8!^; :C#C!: =JA
+,.,(_-8-4!5CO@T%FRZP"[+%9U M=LO2.'[N3\[3Y)&DQ=:<5KPHZUM&\XH$<2'%FSSE?PUX7#[Y,XF7)Y]8&I$/
M\9S%A2[(=>C'Y)W#L8@;SFOZK*)K!^@ZN4KB M?)41&B_8HB.>RN,M2?R0'^GV<+67PYUJ4N"5GYX2U?Z5:
(JF=AV///R/37Q* M=*4,-SK"G>/#]:ZS\;;L[MNR>Z^=NF>B6%W)A4KH6^'I)4Z7"2_?%U['CDTK MDM%-*B[69]G:G[.+
;\:9RQ]8(/)+S^IEO);5X61, <)HTB8BX1Y()@@%&,K M%$-&G] GELZ#C)%U&LQ9ESRD\7WE4<%&):SHXP\3^[00_,-
NV9$9Z3$9761& M;S^C>JKKVXQ"F:UM>2UI>3_'*9LGRSCXSNO+ M1R7S>Z'*A#T5KSO_/:7@OM6V]LZ5,=
(MR[!;_Z'(I/3(I"XRJ0>""=6VM]6V MI=7^6H[@>:7]!Y;R&0FIBU^6>LW2(.D:S$VET+Z51L(<)(S*SYU*GIF?$HU$
MU=!5UC1RKSP03-#+:*N7D?28_UX7RLBX7/B4P;\-&0GX)>';)LB?
M^60EO>=3:C]>$#Z!3LO+A1_RN4S(^'4D[KQD2+/U%1(2YB!AM(*9NPU"-\?\
MVM^ZKB"3>B"8H)/Q5B=C^5BNDL15)8F9OPYR/PR^5RWDDY\N6=[UCS*54OOJ M 0ESD#"*A+E(F
>"":)1E<:C4&!SQ1H%T@J4YD!I%$ISH30/11,%LV-JJ?]K M/Y*GZRTJ),V!TFA-V^U)FF6/;;/=DZ!I/11-U(O6Z$63ZN4RCC=
< Q_9 XLW M3-:)Y*#>2D#2'"B-0FDNE.:A:*)<&NM2Q7F7*M2\A-(<*(U":2Z4YJ%HHF : M"U.5>YCP?@2U/*$T!TJC-
6VW'ZDCVQQI9KL?01U2%$W42^.EJG(SM>Y'=/KA MDW-93)>6 5?/E-TE*2-
_)?')S,]69+8J^E0F;5=0JQ5*HA_Y!#UYU#BR^F\CR]=0(U M?
J$T"J6Y4)J'HHEJ:BQB=8SK5E!C&$ISH#0*I;E0FH>BB2NZ&G=8DYJ)$R_U MX[QS==FTCA2^8;%'AM+^AF4F3]&W]%
:A=)<*,U#T<32-SZO)O=Y7U\;5 -V MO[M7Q^WB0_U8*(U":2Z4YJ%H8O$;TU:3F[9]5AS)47T;14T33 E#&6OC]CJQ M>D-
!?;8QMD:ME2.T8T-MI([,47L=6,>&AC:R+;V]6 AUQ&)Q&HM4DSIJ!\>$ M7_@L@11Q!:!G[/P^4>&B?+4O8L)M52A-
JEN5":AZ*) FLL5JG;$ M6,// +4! O.V5B[EW6==OL&"Q";5 HC4)I M+I3FH6BB !H;5),O8:TZ45)[6WG
APUYTK*UYN*2)*FK)4_7^ZH"M4JA- JE MN5":AZ*)HFJL4LW&M2&H#0JE.5 :A=)<*,U#T43!-&:I)C=+W["07D[NK9^.
MU:=CV[#U]E)Z:%IZ;%H7FM9#T<2J-Z:F)E_X>KE8!/4W)57-]Z>MTLI#? MN*\LH#0'2J-0F@NE>2B:**_&]55V
A$AZYCA=(<*(U":2Z4YJ%HHF :WU27 M^Z8_>'.7G-I;.]"5KU :?>7\Z>4-7ITW=$'WPT/11)WLW* OMW#?VK?\IX-]
M"WM#/_:.?NPM_=A[^K$W]?\7!J[>&+@ZSL#5H08NE.9 :11*7\&9*^!?5Y4;1*)\.=AQM%+%V6SZW*^-1Y$^?5
MXV:VGVZ?C759/A&J]?E,/7/4CL^I>N963[YJ\-6#N%X67H?LCJ=23FU^8&GU M;*OJ39ZLRTHRC)#L?+)5:O1D.L]E2
MQ#P[E2N1Z%<6,HVYTH?I_3!;I8+/\T9Q-,2>QX8Q#Y/!=)(_=Y-.)W*MHC 1 M-
RG*UG',TZ^7(I+;\X$_>'KB8WB_5.:)X72RXO?B5JC/JYM4'PVK*O,P%DD6 MR@2E8G$^N/#?
7#)B&N1G_!V*;;;S&)FAW$GY8 ZNY^<#SR@2D9@I4X+K?QOQ M5D21J:1U?"F+#JH^3@,T6V=*QF5CK2 .D^(_?
RPOQ$X#/&YH@,L&.-== M=)2KO.**3R>IW*+4G*VKF0?Y4//66ER8F+MRJU+]:JC;J>E[F=R??!)IC*Z3
MF4C,)4(W$4_0"7K_Z?H&O;H2BH=1]GHR5+H[TV@X*TM?%J5Q0VF&/LA$+3/T M+IF+^;?MAUIFI14_:;W$SH)_KI-

3%'B_(NQA@C[?7J%7/[]&V9*G(G.4#ZI+ M$>3E]>E4/5+81MY48G8*YF5]"9;\9DX'^BEDHET(P;37W[RF?>;0R>I=!)7
M]>F-2(T\O6:07*!M/N_,@5ZB2'Q9A^JKGB#I@U[1,[X*%8_"?WF^ A1/[X6R M#:?H<)QW:-
;Q9NJ=TLEP8U%)*Y7T:)41SQ126Q'I*QP7MGFI3]'CQ/_!TD^4[)[PY4IW^MPIS5C[W@&-3CUJ9&6:IEJ0 \
MW\FI#N=&4)L;;.0U3PU G^]FWT4LUXDR9GTDZ9?@-;_C2H ^3Y;N:!
MNKV$0VO]IBA%:BD.ON!%"_.NS#HP6A\8=0X+(.G_""6/Y:+KIECXV" :Z.B[M\7BHB:BMM$IR5C]V90(K_5%
[)M(%"'T@H>\$6(@&4@9N4A[L)'J-6F4YRQ^[/ &; M 6O/29P$/E8J,#3H*64-+#&KRTF CH&;CL]WDE%MP;%]3@(,#-P,
[-5)QLT? MV^SC(@!'XOY,V;F3E/U_YR2C!MU 2M).UIJ%CU95762M!*A)VLM:21=9*P&$
MDIZR5E+/6EU&0G:^9NPX:R7UK/5LCY$00"!YN5DKJ6>MQ)V3$& CZ3EL)=8O M(QMD R=).W%K9NZ,5587@2L!:I+V
E?21>!* *&DI\"5U -7JG^:YC0%.-*. M U=:#UQ'>YR$ @+IRPU<:3UP96?.KVTHP)'VG+A26^+J-R2N%$A)VTE<\]T:
M5EU=)*X4N$G;2UQI%XDKW=FCTU/B2NN)*QDYK 3P2#M.7&D]<1WOLQ*@('VY MB2MU)*Y-
P,\TIXC5VJ+7/V&R)4"*VD[D6L2VO>2N,L?N3X9@).U%[FR+B)7 M!A1E/46NK!ZYDJ#92ACPD748)"]W,R5U3-
7G^X9&/"1]1RZ M,EOHZG\?N@YW-DW'0M!K&:^+[)-U R5!E8TH%+X- ABOV1<>EG:C"UTEJH:!9>PT,34936>+6-
PM^#)!+8P -8;(@MYPMN>#(P9 !^5Z!9LCEFMR"W0)#SJX!&1?F
M8^JC=>&X_'RO.&L5Z1N*7VMY3D;!)T(#&I*'^VMR]OX%C6]#=$EHEX0VO*/_ M3])GMB4-^TG=DYB8BN4P]>R=-
Z"WX&4?W@WCX/,)RZ/.\N@4>^9VH,]3BXH; ME'M5VXPF8QK3U-
_VJ(6=6O@WM:A/K45%1VK1<#B^"/K5HDXM.JGV0R$3Y*;& M6D-[:\B"/=OGC+W'$+TRD8R'-'PC5C5"0>82P1XB]NG'
MK_0'84A'XW[]I--/_F$3VO2'>_A,9DPPF4.?C>35R2=A$@2C%S;\HP?
O:N6*#Z+8>M1U455,#E@IM16F:&UO"0;L%=GZE%!XZKJQT?PK9 M'U!+ P04 " #V@0Y9 "QR\G,# #D#P &0
'AL+W=O\FUM4CL M8KOM]N^QG2PT6Q;:D2^M[=SSW/F>BYV;[!C_)58 $MV5!153:R7E^LRV1;:"
M$HM3M@:JGBP8+[%44[ZTQ9H#S@VH+&S/<4*[Q(1:\<2L7?%XPC:R(!2N.!*;
MLL3_@(*MIM:KO6P\)TL5U(OV/%DC9=P#?)F?<75S&Y8B>WC/W2D\M\:CDZ("@@DYH!J[\MS* H-)$*XW?-:34N M-
7!__,">FKVKO=QB 3-6_"2Y7$VML85R6.!-(;^SW2>H]S/2?!DKA/E%N]K6 ML5"V$9*5-5A%4!):_>.[.@][#=X!N#5
.\1P'L.X-< _U /00T(#O4PJ@&C M0SV$-2 TN:^293(]QQ+'$\YVB&MKQ:8'1BZ#5@DF5!?6M>3J*5$X&9M*.F&+
MDQL!Z%P(D)AFJ,O!-^2@D@" IV@\SPGNA!P@2YI5QI8I*<]M9'<&LBL![)@(??654K@1*: YY!S[IQX<]>%MEHTF)]Y"2
M"Z^7\#.FI\@-WR//\8*N_?P#OE%PWWD6/C\<[G=EX_^\IR_VWLJEWY27;_C\ MEY=71Y
7%6G03:K/VC.QQAE,+768"N!;L.(WK]S0^=@EUY!D\R')DB')TH'(M6C('CVRQY:N9'HS 8M\W2IV:!ZX0?
W,:LEH2N3O7S'9K(BY!%YVR=)+>*PL_=&YZ!XP1P$JJ_O/"U".[[M>N_F0425#194. M%%5+VJB1-NH-
\Y)FW!Q5A"+VZ/3"^I[J$C=Z\NY'CA-%3KMD9[V>C[UPAB1+ MAB1+!R)KR3=NY!N_6+ZB_K:X[Y)P?)B$O=Z/E7!
(LF1(LG0@LDI">Z\+*8$O M3;\HD+G&JB_&9K5I2<]-)_9H?>:>S=V.]42UL%7'^9>^ZG^_8KXD5*@"6"A7
MSFFD;@U>]9351+*UZ8%NF50=E1FN5!L.7!NHYPO&Y,-$.V@:^_@/4$L#!!0 M (/:!#EES(UJL\ , /P8 9 >&PO=V]R:W-
H965T)-8!9 MVR13:7]\;6 ([# HJ>Z\)'S=8WSPE7UA<13R4>T!-'E*DTPMG;W6^;7KJG@/ M*5,CD4-
FSFR%3)DVNW+GJEP"VY1!:>+ZGA>Z*>.9LUJ4Q^[E:B$*G? ,[B51 M19HR^>\'2,1QZ5#G^<
GOMMK>\!=+7*V@S7HS_F]-'MN0]GP%#+%148D;)?. M#;V.Z,P&E%?\R>&H6MO$=N5!B$>[<[=9.IZ](T@@UA;!S-
\!;B%)+,G[0Q/)BD:CR MEQRK:\.Q0^)":9'6P>8.4IY5_^RI%M$*H,$K 7X=X)\;,*X#QN<&!'5 4)JI
MNE)ZB)AFJX441R+MU89F-TJ99;3I/L_L1^3J^W<+5YNF;(;U]@/%=9_!7M3[$:$^N^)[_E!3_CM M.8I<*5Y3-
8WZSX9@^$V M=:]5SF)8.B8W%<@#.*L?OJ.A]U.?&DQ8A 3K:!LWVL8E?7SFV")__V:N('<:
M4O5/G\8QID9,6(0$ZV@,&HW!X.C[XYB!5'N>DQQD;#SVJ1M$7*JN@LU+F)TX M#BNZ<]M'TC-=7Q,&A^3,[.1[21
^HJ10%S+>FQ4)N7D>I>1JO6?F M7GKGT\'V+O57IC'Y2C[RC*=%VF=H$'>I M(4Q8A
3K:)PW&N>X"3W'U(@)BY!@'8W4.RV$O<'Q:).993$0L26JS-/W=L(M M2RM[..4)F.5X!F:)S+/ZDOZE\6!#ERJN:>UDGLT]
[T4N8[7:U=>J(^C_26?V M]%HZ#_,NMH1)B[!H79>GNZ/-4@='!MCIG6J.5)3>O, MT4$0^I,7>?
T6M0<]%1]TN/IX,1:_DC,7X,/@BWUATB(L6E?JJ8*A^{0}1ZUF M4&D1%JWK\E30T,&%_ALLQ>L&.ZDY#
<+9K)N9M\,W=K'&MZAGZ*F@H6]0T?3: MJ]H)V_9F-)R&W]K#K'@B+%K7WJF6H6QECNJ7KPY;.
(;5TC\ZY1])U+3*LS5JPVP5C M)EJ50M8CLC"F^A#']6S!2EI?J(I)BQ1*E]38KI['=:49S6L@E2+N=3II7%(N
MR7@HE^5U:>IHII;2C$B_#47^]CD?D6[ZGD1>;J)R-B+W9V]_+)6Y>A/Y^\F[MDY/._?G58?S,
>G@P@!BXNGSQ)_2QJ0O]Z7=\%,KY(FG&&T0 MH-DL6R9T'#EN-F4\+)3<[DU"?,"JTY)%#U2,R(0*/M4<6 4MN5C[<
\",R64 MCHPM"INN'Y'ZEX>[O@?UTNB47"KMGVP)[F:33)7.F6[3=,DF-!X*5H =S><+ MN!M5Q0
:HTK;R#F=*TF=APVC:5C9&1/B%AZF[\6>]JK8V;<.[)ILF]90T_0R MO@/ZNVI>>U>V]R+=J.
(/RGQ:VNE(UX<"93>:%7SE^JNB-8"I=W%U6E5B_5'P MN2R9G_RS$XZ'=,.+%DKS7S8;E,K,!I@FT0/3AL]V(S\UK>
[8RFS*:57@GGNO MT//?7>7_\JR^Z]R:#CHL7E#'KO)_FLPF;X&DZ^B M)@?';S+)CM)CW+R_=PX)>T>$-
AK!46Q$OL'!3FR31M,E%X;+IK?@><[DHY." ME3=T:@_S>_IV?,X*NA3FK@5'9-O^RG*^++-VU TL1#-
JV_X"T^NF[3G0YN(R M9RN63YJNGD]=,[(-F[6Y@'"(7+LKC& <*B=A,\;4&)+QNP,BR\&YC>8"![0)6.Y _ MG
=J*LQ)$MA5S!OV!.-(EF$(U&*X1M,469T4/N']P9Z2),FR,)8V$&28 @\ MC3B".0 /&)(D[CUX\#Z*-^^I>/L+U_@W4$L#!!0
(/:!#EF7BKL

-8?20$3;8T.P6BP^0"X99K>]9!:G5<-75! 628 \ !X;"]W;W)K8F]O:RYX;6S%FEV/VC@4AO^*Q557 M6A;(Q[0=E4H4F
X2"XBDO:U,8L":Q&9M9S[ZZ]<.1>M ..K-6:Z8?)!YIGC92/I'7LA!ZV-D;<[CO]72V9R75?\D#$W;+5JJ2&KNH=CU]4(SF
M>L^8*8M>T._?]4K*1>?SI].Q5JKG+TC#,L.EL"O=BN^C_MKM%\LPUW_"" MF[=AI_Z[8!U2OCQ*Q7]*86B19$H6Q;
S.&[XSI3AV<7J MQ$&F=*/K-89NUM2"##MW?7O +5?:U'O4QZ>6\9G9G8]+E9$/O#!,3:AA7Y6L M#ESLW&'L6?
2\TZCK_4X9Y7;+,S:1654R88YU5*QP@$+O^4%WB* E M&W9.NQ JKZ=J#C '(^':5'"6/'N0= 'F'"_F%:JZ)W)*58MKN
M>OX\OP?0WN.BK=DS$Q4C:Y;)G>!N>YT_8YN^BF8>Y < \@,NY%QJ359,D61/ M%?.8/@),'W&99L(6SEA/,?
TG63#CQW,?RN<^+M<#?V4Y&6EM;>4S@M)E0Y _0,U_LNBE3I>V!;62XGIVL M"MK@@^)_@)S_<^O*W7G% BCY
^3D7_/=WG3EMOM-LU]I4:M\SJD;]>1"==9(775:#H"R 4! ML@MF0O/6PU#2"PALEC.>
[U60$@I(;92KO0REQ2E?;?)QX0L%"%;Z'I'5$>G MCPE9*$*VT%7,XUWJ8X+O2) M=&7J\.0A'Q.R4(1LH69_V>+
("))/A"R?!MUY M"DGE8T+RB9#E<]$'7\\A2#X1LGQ:,/V*^IB0?")D^;15<^_F,G3])/FO%R'Y
MQ,CR:4S>MCXZ,22=^%9#'RN@JBQ]3$@Z,;)T ,RS-(\AZ<3(TKD^0CMW8PQ) M)T:6SE7,+IFGLY6/";Z:QYY@
P>2_I@BANP38P]]0$Q_3!%#]HFQ7]B7MOU&2VRE2+NX_A&-HK=&Y9M511CNVXIYI+F MIU]&G7[5]?E?4$L#!!0 (
/:!#ED3)^RZ[P$ *4B : >&PO7W)E M;',O=V]R:V)O;VLN>&UL+G)E;'/-VKM.ZT 4A>%7B?P 3/8MP!&AHJ%%O(5
M)A>1Q)8]"'A[HE"$95&KU;Y8=N]7;(Q_++X/3>#:_C-N?2S)[;89/+LDD?^\OI,9T/7Y;-\/@B3:H=I!"D]8,,@JQ^D$.0UP*"
(KZ00L(6M0/NH:@Z_I!-Q!T M4S_H%H)NZP?)'&6<$R1-L";06I!K(?!:$&PA$%N0;"$P6Q!M(5!;D&TA<%L0
M;B&06Y!N(;!;$&\AT%M1;R706U%O)=!;)R_;!'HKZJT$>BOJK01Z*^JM!'HK
MZJT$>BOJK01Z*^JM!'HKZJT$>AOJ;01Z&^IM!'H;ZFT$>MMDLX1 ;T.]C4!O M0[V-0&]#O8U ;T.]C4!O0[V-0&]#O8U
;T>]G4!O1[V=0&]'O9U ;T>]G4!O MGVQV$^CMJ+<3Z.VHMQ/H[:BW$^CMJ+<3Z.VHMQ/H':AW$.@=J'<0Z!VH=Q#H
M':AW$.@=J'<0Z!V3CY4$>@?J'01Z!^H=!'H'ZAU_J?=8/O=YO/1\K_'Y?TEU M.=V;+X_+[]/HH2+,\X)_DJY_P)02P,$% @
]H$.66(CYQC8 0 2"(M !, !;0V]N=&5N=%]4>7!E&ULS=I=3X,P% ;@O[)P:T;7K_D1YXUZ MJU[X!RJ<#3*@3=O-
^>\M3$TT2EQFXGL#@;;G/;3)<\7EXXNC,-FU31<6616C MNV
L%!6U)N3649=&EM:W)J9'OV+.%&NS(B9FLSDK;!>IB]/8U\BN+F]H:39- MG-SNTNM0VVZ1>6I"-
KG>3^RS%IEQKJD+$],XVW;EEY3I6T*>5@YS0E6[<)(F M9.S;A'[DYX"W=?=;\KXN:?)@?
+PS;9K%=@T+\:6AD(^7^*9'NUS6!96VV+1I M21Z<)U.&BBBV3;XO>C*>'-,.T_[*C\X?

RHP%IID/WKJ03LS3X7'O1]*OGKI4 MB'RLQS_Q(S&5/OK[J#_MDLI?9J?M?;9^/9Q'8,/M^#W^?,8?]0_L0X#T(4'Z M4"!]:) ^YB!]G(+T<0;2QSE('WR&T@B*J!R%5(YB*D=!E:.HRE%8Y2BN&UL4$L! A0#% @]H$.68I9M\WO *P(M !$ (!KP &1O8U!R;W!S+V-O&UL4$L! A0#% M @]H$.69E&PO=V]R:W-H965T&UL4$L! A0#% M @]H$.6:/0,-59!P =1X !@ ("!#PX 'AL+W=O J M !X;"]W;W)K!B MV<44 #*6@ & @(%9-0 >&PO=V]R:W-H965T&UL4$L! A0#% @]H$.6=?]&IP(" O!@ !@ M ("!5$H 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @]H$.62.4E"R[! = P M !D ("!5UT 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @]H$.645ZU+SJ P 0 H !D M ("!HFL 'AL+W=O&PO=V]R:W-H965T M&UL4$L! A0# M% @]H$.6<(S 9WB!@ R!(!D ("!0'H 'AL+W=O M&PO=V]R:W-H965T&UL4$L! A0#% @]H$.6:*1 MPZ_M P 5@D !D ("!1(H 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @]H$.62%22#EA @ P0< !D M ("!IY0 'AL+W=O&PO M=V]R:W-H965T&UL4$L! A0#% @]H$.6942CF2_ @ L08 !D ("! MJJ\ 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% M @]H$.65CNIX#> @ P0< !D ("!C;@ 'AL+W=O&PO=V]R:W-H965TB^ !X M;"]W;W)K&UL4$L! A0#% @]H$.6:9VPVT& M P QP< !D ("!XL$ 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @]H$.65L]U4;R"0 Y7 !D M ("!ZLT 'AL+W=O&PO=V]R M:W-H965T&UL M4$L! A0#% @]H$.66',]P#ZC MVD8" ">!0 &0 @($^Y >&PO=V]R:W-H965T&UL4$L! A0#% @ M]H$.63BZMRDG!0 =R, !D ("!KND 'AL+W=O&PO=V]R:W-H965T+[!X;"]W;W)K&UL4$L! A0#% @]H$.6=5M%=FO @ T < !D M ("!= ! 'AL+W=O&PO=V]R:W-H M965T8% 0!X;"]W;W)K&UL4$L! M A0#% @]H$.6831DY[J"0 .6< !D ("!K@@! 'AL M+W=O&PO=V]R:W-H965T9'@@ $U! 9 " M@>(6 0!X;"]W;W)K&UL4$L! A0#% @]H$. M62X3:G6M!P ;4P !D ("!-Q\! 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @]H$.60 L&PO=V]R:W-H965TPW 0!X;"]S='EL97,N>&UL4$L! A0# M% @]H$.69>*NQS $P(L (!13L! %]R96QS M+RYR96QS4$L! A0#% @]H$.65>5<-75! 628 \ M (!+CP! 'AL+W=O7!E&UL4$L%!@ !" $(!1(&!% 0 ! $! end XML 71 Show.js IDEA: XBRL DOCUMENT // Edgar(tm) Renderer was created by staff of the U.S. Securities and Exchange Commission. Data and content created by government employees within the scope of their employment are not subject to domestic copyright protection. 17 U.S.C. 105. var Show={};Show.LastAR=null,Show.showAR=function(a,r,w) {if(Show.LastAR)Show.hideAR();var e=a;while(e&&e.nodeName!='TABLE')e=e.nextSibling;if(!e||e.nodeName!='TABLE'){var ref=((window)?w.document:document).getElementById(r);if(ref){e=ref.cloneNode(!0); e.removeAttribute('id');a.parentNode.appendChild(e)}} if(e)e.style.display='block';Show.LastAR=e};Show.hideAR=function() {Show.LastAR.style.display='none'};Show.toggleNext=function(a){var e=a;while(e.nodeName!='DIV')e=e.nextSibling;if(!e.style){}else if(!e.style.display){}else{var d,p_;if(e.style.display=='none'){d='block';p='-'}else{d='none';p='+'} e.style.display=d;if(a.textContent) {a.textContent=p+a.textContent.substring(1)}else{a.innerText=p+a.innerText.substring(1)}}} XML 72 report.css IDEA: XBRL DOCUMENT /* Updated 2009-11-04 */ /* v2.2.0.24 */ /* DefRef Styles */ .report table.authRefData{ background-color: #def; border: 2px solid #2F4497; font-size: 1em; position: absolute; } .report table.authRefData a { display: block; font-weight: bold; } .report table.authRefData p { margin-top: 0px; } .report table.authRefData .hide { background-color: #2F4497; padding: 1px 3px 0px 0px; text-align: right; } .report table.authRefData .hide a:hover { background-color: #2F4497; } .report table.authRefData .body { height: 150px; overflow: auto; width: 400px; } .report table.authRefData table{ font-size: 1em; } /* Report Styles */ .pl a, .pl a:visited { color: black; text-decoration: none; } /* table */ .report { background-color: white; border: 2px solid #acf; clear: both; color: black; font: normal 8pt Helvetica, Arial, san-serif; margin-bottom: 2em; } .report hr { border: 1px solid #acf; } /* Top labels */ .report th { background-color: #acf; color: black; font-weight: bold; text-align: center; } .report th.void { background-color: transparent; color: #000000; font: bold 10pt Helvetica, Arial, san-serif; text-align: left; } .report .pl { text-align: left; vertical-align: top; white-space: normal; width: 200px; white-space: normal; /* word-wrap: break-word; */ } .report td.pl a.a { cursor: pointer; display: block; width: 200px; overflow: hidden; } .report td.pl div.a { width: 200px; } .report td.pl a:hover { background-color: #ffc; } /* Header rows... */ .report tr.rh { background-color: #acf; color: black; font-weight: bold; } /* Calendars... */ .report .rc { background-color: #f0f0f0; } /* Even rows... */ .report .re, .report .reu { background-color: #def; } .report .reu td { border-bottom: 1px solid black; } /* Odd rows... */ .report .ro, .report .rou { background-color: white; } .report .rou td { border-bottom: 1px solid black; } .report .rou table td, .report .reu table td { border-bottom: 0px solid black; } /* styles for footnote marker */ .report .fn { white-space: nowrap; } /* styles for numeric types */ .report .num, .report .nump { text-align: right; white-space: nowrap; } .report .nump { padding-left: 2em; } .report .nump { padding: 0px 0.4em 0px 2em; } /* styles for text types */ .report .text { text-align: left; white-space: normal; } .report .text .big { margin-bottom: 1em; width: 17em; } .report .text .more { display: none; } .report .text .note { font-style: italic; font-weight: bold; } .report .text .small { width: 10em; } .report sup { font-style: italic; } .report .outerFootnotes { font-size: 1em; } XML 74 FilingSummary.xml IDEA: XBRL DOCUMENT 3.24.2.u1 html 192 290 1 false 57 0 false 6 false false R1.htm 995200090 - Document - Document and Entity Information Sheet http://vuzix.com/role/DocumentDocumentAndEntityInformation Document and Entity Information Cover 1 false false R2.htm 995200100 - Statement - CONSOLIDATED BALANCE SHEETS Sheet http://vuzix.com/role/StatementConsolidatedBalanceSheets CONSOLIDATED BALANCE SHEETS Statements 2 false false R3.htm 995200105 - Statement - CONSOLIDATED BALANCE SHEETS (Parenthetical) Sheet http://vuzix.com/role/StatementConsolidatedBalanceSheetsParenthetical CONSOLIDATED BALANCE SHEETS (Parenthetical) Statements 3 false false R4.htm 995200200 - Statement - CONSOLIDATED STATEMENTS OF CHANGES IN STOCKHOLDERS' EQUITY Sheet http://vuzix.com/role/StatementConsolidatedStatementsOfChangesInStockholdersEquity CONSOLIDATED STATEMENTS OF CHANGES IN STOCKHOLDERS' EQUITY Statements 4 false false R5.htm 995200300 - Statement - CONSOLIDATED STATEMENTS OF OPERATIONS Sheet http://vuzix.com/role/StatementConsolidatedStatementsOfOperations CONSOLIDATED STATEMENTS OF OPERATIONS Statements 5 false false R6.htm 995200400 - Statement - CONSOLIDATED STATEMENTS OF CASH FLOWS Sheet http://vuzix.com/role/StatementConsolidatedStatementsOfCashFlows CONSOLIDATED STATEMENTS OF CASH FLOWS Statements 6 false false R7.htm 995210101 - Disclosure - Basis of Presentation Sheet http://vuzix.com/role/DisclosureBasisOfPresentation Basis of Presentation Notes 7 false false R8.htm 995210201 - Disclosure - Revenue Recognition and Contracts with Customers Sheet http://vuzix.com/role/DisclosureRevenueRecognitionAndContractsWithCustomers Revenue Recognition and Contracts with Customers Notes 8 false false R9.htm 995210301 - Disclosure - Loss Per Share Sheet http://vuzix.com/role/DisclosureLossPerShare Loss Per Share Notes 9 false false R10.htm 995210401 - Disclosure - Inventories, Net Sheet http://vuzix.com/role/DisclosureInventoriesNet Inventories, Net Notes 10 false false R11.htm 995210501 - Disclosure - Fixed Assets Sheet http://vuzix.com/role/DisclosureFixedAssets Fixed Assets Notes 11 false false R12.htm 995210601 - Disclosure - Technology Licenses, Net Sheet http://vuzix.com/role/DisclosureTechnologyLicensesNet Technology Licenses, Net Notes 12 false false R13.htm 995210701 - Disclosure - Investment in Atomistic Sheet http://vuzix.com/role/DisclosureInvestmentInAtomistic

Investment in Atomistic Notes 13 false false R14.htm 995210801 - Disclosure - Other Assets Sheet http://vuzix.com/role/DisclosureOtherAssets Other Assets Notes 14 false false R15.htm 995210901 - Disclosure - Accrued Expenses Sheet http://vuzix.com/role/DisclosureAccruedExpenses Accrued Expenses Notes 15 false false R16.htm 995211001 - Disclosure - Income Taxes Sheet http://vuzix.com/role/DisclosureIncomeTaxes Income Taxes Notes 16 false false R17.htm 995211101 - Disclosure - Capital Stock Sheet http://vuzix.com/role/DisclosureCapitalStock Capital Stock Notes 17 false false R18.htm 995211201 - Disclosure - Stock-Based Compensation Sheet http://vuzix.com/role/DisclosureStockBasedCompensation Stock-Based Compensation Notes 18 false false R19.htm 995211301 - Disclosure - Long-Term Incentive Plan Sheet http://vuzix.com/role/DisclosureLongTermIncentivePlan Long-Term Incentive Plan Notes 19 false false R20.htm 995211401 - Disclosure - Litigation Sheet http://vuzix.com/role/DisclosureLitigation Litigation Notes 20 false false R21.htm 995211501 - 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Additional Information (Details) Details 57 false false R58.htm 99941601 - Disclosure - Subsequent Events (Details) Sheet http://vuzix.com/role/DisclosureSubsequentEventsDetails Subsequent Events (Details) Details http://vuzix.com/role/DisclosureSubsequentEvents 58 false false All Reports Book All Reports vuzi-20240630.xsd vuzi-20240630_cal.xml vuzi-20240630_def.xml vuzi-20240630_lab.xml vuzi-20240630_pre.xml vuzi-20240630x10q.htm http://fasb.org/us-gaap/2023 http://xbrl.sec.gov/dei/2023 http://xbrl.sec.gov/ecd/2023 true true JSON 77 MetaLinks.json IDEA: XBRL DOCUMENT { "version": "2.2", "instance": { "vuzi-20240630x10q.htm": { "nsprefix": "vuzi", "nsuri": "http://vuzix.com/20240630", "dts": { "schema": { "local": ["vuzi-20240630.xsd"], "remote": ["http://www.xbrl.org/2003/xbrl-instance-2003-12-31.xsd", "http://www.xbrl.org/2003/xbrl-linkbase-2003-12-31.xsd", "http://www.xbrl.org/2003/xl-2003-12-31.xsd", "http://www.xbrl.org/2003/xlink-2003-12-31.xsd", "http://www.xbrl.org/2005/xbrldt-2005.xsd", "http://www.xbrl.org/2006/ref-2006-02-27.xsd", "http://www.xbrl.org/lrr/arcrole/esma-arcrole-2018-11-21.xsd", "http://www.xbrl.org/lrr/role/negated-2009-12-16.xsd", "http://www.xbrl.org/lrr/role/reference-2009-12-16.xsd", "https://www.xbrl.org/2020/extensible-enumerations-2.0.xsd", "https://www.xbrl.org/dtr/type/2020-01-21/types.xsd", "https://www.xbrl.org/dtr/type/2022-03-31/types.xsd", "https://xbrl.fasb.org/srt/2023/elts/srt-2023.xsd", "https://xbrl.fasb.org/srt/2023/elts/srt-roles-2023.xsd", "https://xbrl.fasb.org/srt/2023/elts/srt-types-2023.xsd", "https://xbrl.fasb.org/us-gaap/2023/elts/us-gaap-2023.xsd", "https://xbrl.fasb.org/us-gaap/2023/elts/us-roles-2023.xsd", "https://xbrl.fasb.org/us-gaap/2023/elts/us-types-2023.xsd", "https://xbrl.sec.gov/country/2023/country-2023.xsd", "https://xbrl.sec.gov/dei/2023/dei-2023.xsd", "https://xbrl.sec.gov/ecd/2023/ecd-2023.xsd", "https://xbrl.sec.gov/ecd/2023/ecd-sub-2023.xsd"] }, "calculationLink": { "local": ["vuzi-20240630_cal.xml"] }, "definitionLink": { "local": ["vuzi-20240630_def.xml"] }, "labelLink": { "local": ["vuzi-20240630_lab.xml"] }, "presentationLink": { "local": ["vuzi-20240630_pre.xml"] }, "inline": { "local": ["vuzi-20240630x10q.htm"] } }, "keyStandard": 210, "keyCustom": 80, "axisStandard": 23, "axisCustom": 2, "memberStandard": 22, "memberCustom": 33, "hidden": { "total": 34, "http://fasb.org/us-gaap/2023": 13, "http://vuzix.com/20240630": 15, "http://xbrl.sec.gov/dei/2023": 6 }, "contextCount": 192, "entityCount": 1, "segmentCount": 57, "elementCount": 538, "unitCount": 6, "baseTaxonomies": { "http://fasb.org/us-gaap/2023": 508, "http://xbrl.sec.gov/dei/2023": 29, "http://xbrl.sec.gov/ecd/2023": 4 }, "report": { "R1": { "role": "http://vuzix.com/role/DocumentDocumentAndEntityInformation", "longName": "995200090 - 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"Duration_1_1_2024_To_6_30_2024_us-gaap_OptionIndexedToIssuersEquityTypeAxis_us-gaap_EmployeeStockOptionMember_bt4-mm65pEC1C0lpn7LuEQ", "name": "us-gaap:ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriod", "unitRef": "Unit_Standard_shares_pHRev2NIIEyqx-7-vld1AQ", "xsiNil": "false", "lang": null, "decimals": "INF", "ancestors": ["p", "td", "tr", "table", "us-gaap:ScheduleOfShareBasedCompensationStockOptionsActivityTableTextBlock", "us-gaap:DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock", "div", "div", "body", "html"], "reportCount": 1, "baseRef": "vuzi-20240630x10q.htm", "unique": true } }, "R53": { "role": "http://vuzix.com/role/DisclosureStockBasedCompensationAdditionalInformationDetails", "longName": "99941202 - Disclosure - Stock-Based Compensation - Additional Information (Details)", "shortName": "Stock-Based Compensation - Additional Information (Details)", "isDefault": "false", "groupType": "disclosure", "subGroupType": "details", "menuCat": "Details", "order": "53", "firstAnchor": { "contextRef": "As_Of_6_30_2024_vooY-2bvUkSywpAINTmNcw", "name": "us-gaap:ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsExercisableNumber", "unitRef": "Unit_Standard_shares_pHRev2NIIEyqx-7-vld1AQ", "xsiNil": "false", "lang": null, "decimals": "INF", "ancestors": ["p", "us-gaap:DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock", "div", "div", "body", "html"], "reportCount": 1, "baseRef": "vuzi-20240630x10q.htm", "first": true }, "uniqueAnchor": { "contextRef": "Duration_1_1_2024_To_6_30_2024_VRikNDmnKEyZ1RuBQCbOjQ", "name": "us-gaap:SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsExercisableWeightedAverageRemain
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Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer)." } } }, "auth_ref": ["r15", "r484"] }, "us-gaap_AccountsReceivableMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "AccountsReceivableMember", "presentation": ["http://vuzix.com/role/DisclosureBasisOfPresentationDetails"], "lang": { "en-us": { "role": { "label": "Accounts Receivable", "documentation": "Due from customers or clients for goods or services that have been delivered or sold." } } }, "auth_ref": ["r461"] }, "us-gaap_AccountsReceivableNetCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "AccountsReceivableNetCurrent", "crdr": "debit", "calculation": { "http://vuzix.com/role/StatementConsolidatedBalanceSheets": { "parentTag": "us-gaap_AssetsCurrent", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://vuzix.com/role/StatementConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Accounts Receivable, Net, Current", "verboseLabel": "Accounts Receivable, net of allowance for credit losses of $1,864,000 at June 30, 2024 and $1,574,000 at December 31, 2023.", "documentation": "Amount, after allowance for credit loss, of right to consideration from customer for product sold and service rendered in normal course of business, classified as current." } } }, "auth_ref": ["r186", "r187"] }, "us-gaap_AccruedEmployeeBenefitsCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "AccruedEmployeeBenefitsCurrent", "crdr": "credit", "calculation": { "http://vuzix.com/role/DisclosureAccruedExpensesComponentsOfAccruedExpensesDetails": { "parentTag": "us-gaap_AccruedLiabilitiesCurrent", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://vuzix.com/role/DisclosureAccruedExpensesComponentsOfAccruedExpensesDetails"], "lang": { "en-us": { "role": { "label": "Accrued Employee Benefits, Current", "terseLabel": "Accrued Wages and Related Costs", "documentation": "Carrying value as of the balance sheet date of obligations, excluding pension and other postretirement benefits, incurred through that date and payable for perquisites provided to employees pertaining to services received from them. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer)." } } }, "auth_ref": ["r19"] }, "us-gaap_AccruedLiabilitiesCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "AccruedLiabilitiesCurrent", "crdr": "credit", "calculation": { "http://vuzix.com/role/StatementConsolidatedBalanceSheets": { "parentTag": "us-gaap_LiabilitiesCurrent", "weight": 1.0, "order": 4.0 }, "http://vuzix.com/role/DisclosureAccruedExpensesComponentsOfAccruedExpensesDetails": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://vuzix.com/role/DisclosureAccruedExpensesComponentsOfAccruedExpensesDetails", "http://vuzix.com/role/StatementConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Accrued Liabilities, Current", "terseLabel": "Accrued Expenses", "totalLabel": "Total", "documentation": "Carrying value as of the balance sheet date of obligations incurred and payable, pertaining to costs that are statutory in nature, are incurred on contractual obligations, or accumulate over time and for which invoices have not yet been received or will not be rendered. Examples include taxes, interest, rent and utilities. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer)." } } }, "auth_ref": ["r19"] }, "us-gaap_AccruedProfessionalFeesCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "AccruedProfessionalFeesCurrent", "crdr": "credit", "calculation": { "http://vuzix.com/role/DisclosureAccruedExpensesComponentsOfAccruedExpensesDetails": { "parentTag": "us-gaap_AccruedLiabilitiesCurrent", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://vuzix.com/role/DisclosureAccruedExpensesComponentsOfAccruedExpensesDetails"], "lang": { "en-us": { "role": { "label": "Accrued Professional Fees, Current", "terseLabel": "Accrued Professional Services", "documentation": "Carrying value as of the balance sheet date of obligations incurred through that date and payable for professional fees, such as for legal and accounting services received. 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As a noncash expense, this element is added back to net income when calculating cash provided by or used in operations using the indirect method." } } }, "auth_ref": ["r4", "r33", "r37"] }, "vuzi_AmortizedCommonStockExpenseInAccruedExpenses": { "xbrltype": "monetaryItemType", "nsuri": "http://vuzix.com/20240630", "localname": "AmortizedCommonStockExpenseInAccruedExpenses", "crdr": "debit", "presentation": ["http://vuzix.com/role/StatementConsolidatedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "documentation": "It represent the amortized value of common stock expenses in accrued expenses incurred for the particular period.", "label": "Amortized Common Stock Expense in Accrued Expenses", "terseLabel": "Stock-Based Compensation Expense - Expensed less Previously Issued" } } }, "auth_ref": [] }, "vuzi_AnnualEbitdaMarginsBeforeNonCashChargesTargetsMember": { "xbrltype": "domainItemType", "nsuri": "http://vuzix.com/20240630", "localname": "AnnualEbitdaMarginsBeforeNonCashChargesTargetsMember", "presentation": ["http://vuzix.com/role/DisclosureLongTermIncentivePlanDetails"], "lang": { "en-us": { "role": { "documentation": "Represents annual EBITDA Margins Before Non-Cash Charges targets member.", "label": "Annual EBITDA Margins Before Non-Cash Charges Targets [Member]", "terseLabel": "Annual EBITDA Margins Before Non-Cash Charges Targets" } } }, "auth_ref": [] }, "vuzi_AnnualRevenueTargetsMember": { "xbrltype": "domainItemType", "nsuri": "http://vuzix.com/20240630", "localname": "AnnualRevenueTargetsMember", "presentation": ["http://vuzix.com/role/DisclosureLongTermIncentivePlanDetails"], "lang": { "en-us": { "role": { "documentation": "Represents annual revenue targets member.", "label": "Annual Revenue Targets [Member]", "terseLabel": "Annual Revenue Targets" } } }, "auth_ref": [] }, "us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareAmount": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareAmount", "presentation": ["http://vuzix.com/role/DisclosureLossPerShareAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Antidilutive Securities Excluded from Computation of Earnings Per Share, Amount", "terseLabel": "Anti-dilutive shares", "documentation": "Securities (including those issuable pursuant to contingent stock agreements) that could potentially dilute basic earnings per share (EPS) or earnings per unit (EPU) in the future that were not included in the computation of diluted EPS or EPU because to do so would increase EPS or EPU amounts or decrease loss per share or unit amounts for the period presented." } } }, "auth_ref": ["r164"] }, "us-gaap_ArrangementsAndNonarrangementTransactionsMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "ArrangementsAndNonarrangementTransactionsMember", "presentation": ["http://vuzix.com/role/DisclosureBasisOfPresentationGoingConcernDetails", "http://vuzix.com/role/DisclosureCapitalStockDetails", "http://vuzix.com/role/DisclosureSubsequentEventsDetails"], "lang": { "en-us": { "role": { "label": "Collaborative Arrangement and Arrangement Other than Collaborative [Domain]", "documentation": "Collaborative arrangement and arrangement other than collaborative applicable to revenue-generating activity or operations." } } }, "auth_ref": ["r303"] }, "us-gaap_Assets": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "Assets", "crdr": "debit", "calculation": { "http://vuzix.com/role/StatementConsolidatedBalanceSheets": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://vuzix.com/role/DisclosureBasisOfPresentationDetails", "http://vuzix.com/role/StatementConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Assets", "terseLabel": "Carrying value of unconsolidated VIE", "totalLabel": "Total Assets", "documentation": "Sum of the carrying amounts as of the balance sheet date of all assets that are recognized. 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Assets are probable future economic benefits obtained or controlled by an entity as a result of past transactions or events." } } }, "auth_ref": ["r110", "r123", "r136", "r195", "r216", "r217", "r218", "r219", "r220", "r221", "r222", "r223", "r224", "r305", "r309", "r321", "r484", "r615", "r616", "r654"] }, "us-gaap_AssetsCurrentAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "AssetsCurrentAbstract", "presentation": ["http://vuzix.com/role/StatementConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Assets, Current [Abstract]", "terseLabel": "Current Assets" } } }, "auth_ref": [] }, "us-gaap_AssetsNoncurrentAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "AssetsNoncurrentAbstract", "presentation": ["http://vuzix.com/role/StatementConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Assets, Noncurrent [Abstract]", "terseLabel": "Long-Term Assets" } } }, "auth_ref": [] }, "vuzi_AtomisticAgreementMember": { "xbrltype": "domainItemType", "nsuri": "http://vuzix.com/20240630", "localname": "AtomisticAgreementMember", "presentation": ["http://vuzix.com/role/DisclosureBasisOfPresentationGoingConcernDetails", "http://vuzix.com/role/DisclosureCapitalStockDetails", "http://vuzix.com/role/DisclosureSubsequentEventsDetails"], "lang": { "en-us": { "role": { "documentation": "Represents information pertaining to Atomistic agreements.", "label": "Atomistic Agreement [Member]", "terseLabel": "Atomistic agreement" } } }, "auth_ref": [] }, "vuzi_AtomisticSasMember": { "xbrltype": "domainItemType", "nsuri": "http://vuzix.com/20240630", "localname": "AtomisticSasMember", "presentation": [

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Excludes amount for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates." } } }, "auth_ref": ["r24", "r77", "r134"] }, "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeR { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateE "crdr": "debit", "calculation": { "http://vuzix.com/role/StatementConsolidatedStatementsOfCashFlows": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://vuzix.com/role/StatementConsolidatedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Cash and Cash Equivalents, Period Increase (Decrease)", "totalLabel": "Net Increase (Decrease) in Cash and Cash Equivalents", "documentation": "Amount of increase (decrease) in cash, cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; including effect from exchange rate change. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates." } } }, "auth_ref": ["r1", "r77"] }, "ecd_ChangedPeerGroupFnTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2023", "localname": "ChangedPeerGroupFnTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Changed Peer Group, Footnote [Text Block]", "terseLabel": "Changed Peer Group, Footnote" } } }, "auth_ref": ["r539"] }, "dei_CityAreaCode": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2023", "localname": "CityAreaCode", "presentation": ["http://vuzix.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "City Area Code", "documentation": "Area code of city" } } }, "auth_ref": [] }, "us-gaap_ClassOfStockDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "ClassOfStockDomain", "presentation": ["http://vuzix.com/role/DisclosureCapitalStockDetails"], "lang": { "en-us": { "role": { "label": "Class of Stock [Domain]", "documentation": "Share of stock differentiated by the voting rights the holder receives. Examples include, but are not limited to, common stock, redeemable preferred stock, nonredeemable preferred stock, and convertible stock." } } }, "auth_ref": ["r107", "r118", "r119", "r120", "r136", "r158", "r159", "r161", "r163", "r169", "r170", "r195", "r216", "r218", "r219", "r220", "r223", "r224", "r227", "r228", "r231", "r234", "r240", "r321", "r378", "r379", "r380", "r381", "r385", "r386", "r387", "r388", "r389", "r390", "r391", "r392", "r393", "r394", "r395", "r396", "r406", "r427", "r445", "r455", "r456", "r457", "r458", "r459", "r574", "r594", "r600"] }, "ecd_CoSelectedMeasureAmt": { "xbrltype": "decimalItemType", "nsuri": "http://xbrl.sec.gov/ecd/2023", "localname": "CoSelectedMeasureAmt", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Company Selected Measure Amount", "terseLabel": "Company Selected Measure Amount" } } }, "auth_ref": ["r540"] }, "ecd_CoSelectedMeasureName": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2023", "localname": "CoSelectedMeasureName", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Company Selected Measure Name", "terseLabel": "Company Selected Measure Name" } } }, "auth_ref": ["r540"] }, "vuzi_CollaborationArrangementEquityBonusPeriodFromCommencementOfAgreement": { "xbrltype": "durationItemType", "nsuri": "http://vuzix.com/20240630", "localname": "CollaborationArrangementEquityBonusPeriodFromCommencementOfAgreement", "presentation": ["http://vuzix.com/role/DisclosureCapitalStockDetails"], "lang": { "en-us": { "role": { "documentation": "The period within which equity bonus agreed to be paid from commencement of agreement.", "label": "Collaboration Arrangement, Equity Bonus, Period from Commencement of Agreement", "terseLabel": "Period for equity bonus" } } }, "auth_ref": [] }, "vuzi_CollaborationArrangementPercentOfEquityBonus": { "xbrltype": "percentItemType", "nsuri": "http://vuzix.com/20240630", "localname": "CollaborationArrangementPercentOfEquityBonus", "presentation": ["http://vuzix.com/role/DisclosureCapitalStockDetails"], "lang": { "en-us": { "role": { "documentation": "Th percent of equity bonus to be issued.", "label": "Collaboration Arrangement, Percent of Equity Bonus", "terseLabel": "Equity bonus (as a percent)" } } }, "auth_ref": [] }, "vuzi_CollaborationArrangementShareCommitmentsIssued": { "xbrltype": "sharesItemType", "nsuri": "http://vuzix.com/20240630", "localname": "CollaborationArrangementShareCommitmentsIssued", "presentation": ["http://vuzix.com/role/DisclosureCapitalStockDetails"], "lang": { "en-us": { "role": { "documentation": "Number of commitments shares issued to date in a collaboration arrangement.", "label": "Collaboration Arrangement, Share Commitments Issued", "terseLabel": "Share commitments issued to date" } } }, "auth_ref": [] }, "vuzi_CollaborationArrangementSharesIssuableBasedOnPerformanceMilestones": { "xbrltype": "sharesItemType", "nsuri": "http://vuzix.com/20240630", "localname": "CollaborationArrangementSharesIssuableBasedOnPerformanceMilestones", "presentation": ["http://vuzix.com/role/DisclosureCapitalStockDetails", "http://vuzix.com/role/DisclosureSubsequentEventsDetails"], "lang": { "en-us": { "role": { "documentation": "Number of shares issuable upon achievement of performance milestones in a collaboration arrangement.", "label": "Collaboration Arrangement, Shares Issuable Based on Performance Milestones", "terseLabel": "Issuance of shares, performance milestones (in shares)" } } }, "auth_ref": [] }, "vuzi_CollaborationArrangementSharesIssuableOnExceedingValuationTarget": { "xbrltype": "sharesItemType", "nsuri": "http://vuzix.com/20240630", "localname": "CollaborationArrangementSharesIssuableOnExceedingValuationTarget", "presentation": ["http://vuzix.com/role/DisclosureCapitalStockDetails"], "lang": { "en-us": { "role": { "documentation": "Number of shares issuable upon exceeding valuation target in collaboration arrangement.", "label": "Collaboration

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These shares represent capital invested by the firm's shareholders and owners, and may be all or only a portion of the number of shares authorized. Shares issued include shares outstanding and shares held in the treasury." } } }, "auth_ref": ["r60"] }, "us-gaap_CommonStockSharesOutstanding": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "CommonStockSharesOutstanding", "presentation": ["http://vuzix.com/role/DisclosureCapitalStockDetails", "http://vuzix.com/role/StatementConsolidatedBalanceSheetsParenthetical"], "lang": { "en-us": { "role": { "label": "Common Stock, Shares, Outstanding", "terseLabel": "Common Stock, Shares Outstanding", "verboseLabel": "Common stock, shares outstanding", "documentation": "Number of shares of common stock outstanding. 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This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable common shares, par value and other disclosure concepts are in another section within stockholders' equity." } } }, "auth_ref": ["r60", "r355", "r484"] }, "ecd_CompActuallyPaidVsCoSelectedMeasureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2023", "localname": "CompActuallyPaidVsCoSelectedMeasureTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Compensation Actually Paid vs. Company Selected Measure [Text Block]", "terseLabel": "Compensation Actually Paid vs. Company Selected Measure" } } }, "auth_ref": ["r545"] }, "ecd_CompActuallyPaidVsNetIncomeTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2023", "localname": "CompActuallyPaidVsNetIncomeTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Compensation Actually Paid vs. Net Income [Text Block]", "terseLabel": "Compensation Actually Paid vs. Net Income" } } }, "auth_ref": ["r544"] }, "ecd_CompActuallyPaidVsOtherMeasureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2023", "localname": "CompActuallyPaidVsOtherMeasureTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Compensation Actually Paid vs. Other Measure [Text Block]", "terseLabel": "Compensation Actually Paid vs. Other Measure" } } }, "auth_ref": ["r546"] }, "ecd_CompActuallyPaidVsTotalShareholderRtnTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2023", "localname": "CompActuallyPaidVsTotalShareholderRtnTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Compensation Actually Paid vs. Total Shareholder Return [Text Block]", "terseLabel": "Compensation Actually Paid vs. Total Shareholder Return" } } }, "auth_ref": ["r543"] }, "us-gaap_CompensationRelatedCostsAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "CompensationRelatedCostsAbstract", "lang": { "en-us": { "role": { "label": "Long-Term Incentive Plan" } } }, "auth_ref": [] }, "us-gaap_CompensationRelatedCostsGeneralTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "CompensationRelatedCostsGeneralTextBlock", "presentation": ["http://vuzix.com/role/DisclosureLongTermIncentivePlan"], "lang": { "en-us": { "role": { "label": "Compensation Related Costs, General [Text Block]", "terseLabel": "Long-Term Incentive Plan", "documentation": "The entire disclosure for compensation costs, including compensated absences accruals, compensated absences liability, deferred compensation arrangements and income statement compensation items. Deferred compensation arrangements may include a description of an arrangement with an individual employee, which is generally an employment contract between the entity and a selected officer or key employee containing a promise by the employer to pay certain amounts at designated future dates, usually including a period after retirement, upon

compliance with stipulated requirements. This type of arrangement is distinguished from broader based employee benefit plans as it is usually tailored to the employee. Disclosure also typically includes the amount of related compensation expense recognized during the reporting period, the number of shares (units) issued during the period under such arrangements, and the carrying amount as of the balance sheet date of the related liability." } } }, "auth_ref": ["r251", "r252"] }, "us-gaap_ComputerSoftwareIntangibleAssetMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "ComputerSoftwareIntangibleAssetMember", "presentation": ["http://vuzix.com/role/DisclosureFixedAssetsScheduleOfFixedAssetsDetails"], "lang": { "en-us": { "role": { "label": "Computers and Purchased Software", "documentation": "Collection of computer programs and related data that provide instructions to a computer, for example, but not limited to, application program, control module or operating system, that perform one or more particular functions or tasks." } } }, "auth_ref": ["r466", "r606", "r607"] }, 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the \"benchmark\" (or denominator) in the equation, this concept represents the concentration percentage derived from the division." } } }, "auth_ref": ["r25", "r27", "r54", "r55", "r185"] }, "us-gaap_ConcentrationRiskTypeDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "ConcentrationRiskTypeDomain", "presentation": ["http://vuzix.com/role/DisclosureBasisOfPresentationDetails"], "lang": { "en-us": { "role": { "label": "Concentration Risk Type [Domain]", "documentation": "For an entity that discloses a concentration risk as a percentage of some financial balance or benchmark, identifies the type (for example, asset, liability, net assets, geographic, customer, employees, supplier, lender) of the concentration." } } }, "auth_ref": ["r25", "r27", "r54", "r55", "r185", "r461"] }, "srt_ConsolidatedEntitiesAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/srt/2023", "localname": "ConsolidatedEntitiesAxis", "presentation": 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[Policy Text Block]", "terseLabel": "Variable Interest Entities", "documentation": "Disclosure of accounting policy for consolidation to describe the significant judgments and assumptions made in determining whether a variable interest held by the entity requires the variable interest entity to be consolidated and (or) disclose information about its involvement with the variable interest entity; the methodology used by the entity for determining whether or not it is the primary beneficiary of the variable interest entity; and the significant factors considered and judgments made in determining that the power to direct the activities that significantly impact the economic performance of the variable interest entity are shared (as defined)." } } }, "auth_ref": ["r47", "r48", "r50"] }, "us-gaap_CostOfGoodsAndServiceExcludingDepreciationDepletionAndAmortization": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": 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The risk is the materially adverse effects of loss of a significant customer." } } }, "auth_ref": ["r26", "r185"] }, "vuzi_CustomerConcentrationsPolicyPolicyTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://vuzix.com/20240630", "localname": "CustomerConcentrationsPolicyPolicyTextBlock", "presentation": ["http://vuzix.com/role/DisclosureBasisOfPresentationPolicies"], "lang": { "en-us": { "role": { "documentation": "Disclosure of accounting policy regarding customer concentration.", "label": "Customer Concentrations Policy [Policy Text Block]", "terseLabel": "Customer Concentrations" } } }, "auth_ref": [] }, "vuzi_DecreaseInCashAnnualOperatingExpenses": { "xbrltype": "monetaryItemType", "nsuri": "http://vuzix.com/20240630", "localname": "DecreaseInCashAnnualOperatingExpenses", "crdr": "credit", "presentation": ["http://vuzix.com/role/DisclosureBasisOfPresentationGoingConcernDetails"], "lang": { "en-us": { "role": { "documentation": "Decrease in cash annual operating expenses.", "label": "Decrease in cash annual operating expenses", "terseLabel": "Decrease in cash annual operating expenses" } } }, "auth_ref": [] }, "vuzi_DecreaseInSalaryExpensePerWeek": { "xbrltype": "monetaryItemType", "nsuri": "http://vuzix.com/20240630", "localname": "DecreaseInSalaryExpensePerWeek", "crdr": "credit", "presentation": ["http://vuzix.com/role/DisclosureBasisOfPresentationGoingConcernDetails"], "lang": { "en-us": { "role": { "documentation": "Amount of decrease in weekly salary expense post payroll reduction program.", "label": "Decrease In Salary Expense Per Week", "terseLabel": "Decrease in salary expense per week" } } }, "auth_ref": [] }, "vuzi_DecreaseInSalaryExpensePerYear": { "xbrltype": "monetaryItemType", "nsuri": "http://vuzix.com/20240630", "localname": "DecreaseInSalaryExpensePerYear", "crdr": "credit", "presentation": ["http://vuzix.com/role/DisclosureBasisOfPresentationGoingConcernDetails"], "lang": { "en-us": { "role": { "documentation": "Amount of decrease in salary expense post payroll reduction program annually.", "label": "Decrease In Salary Expense Per Year", "terseLabel": "Annually decrease in salary expense" } } }, "auth_ref": [] }, "us-gaap_DeferredCompensationArrangementWithIndividualShareBasedPaymentsByTypeOfDeferredCompensationAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "DeferredCompensationArrangementWithIndividualShareBasedPaymentsByTypeOfDeferredCompensationAxis", "presentation": ["http://vuzix.com/role/DisclosureLongTermIncentivePlanDetails", "http://vuzix.com/role/DisclosureLongTermIncentivePlanLtipDetails"], "lang": { "en-us": { "role": { "label": "Equity-Based Arrangements, Individual Contracts, Type of Deferred Compensation [Axis]", "documentation": "Information by type of deferred compensation related to equity-based payment arrangements. Includes, but is not limited to, employment contracts with one or more selected officers or key employees. Excludes broad group equity-based compensation plans, defined benefit pension plans, defined benefit other postretirement benefit plans and other deferred compensation that is not equivalent to a defined benefit pension plan or a defined benefit other postretirement benefit plan." } } }, "auth_ref": ["r44"] }, "us-gaap_DeferredCompensationArrangementWithIndividualShareBasedPaymentsLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "DeferredCompensationArrangementWithIndividualShareBasedPaymentsLineItems", "presentation": ["http://vuzix.com/role/DisclosureLongTermIncentivePlanDetails", "http://vuzix.com/role/DisclosureLongTermIncentivePlanLtipDetails", "http://vuzix.com/role/DisclosureStockBasedCompensationAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Deferred Compensation Arrangement with Individual, Share-based Payments [Line Items]", "terseLabel": "Stock-Based Compensation Plans", "verboseLabel": "Long-term Incentive Plan", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": [] }, "us-gaap_DeferredIncomeCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "DeferredIncomeCurrent", "crdr": "credit", "calculation": { "http://vuzix.com/role/StatementConsolidatedBalanceSheets": { "parentTag": "us-gaap_LiabilitiesCurrent", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://vuzix.com/role/StatementConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Deferred Income, Current", "verboseLabel": "Unearned Revenue", "documentation": "Amount of deferred income excluding obligation to transfer product and service to customer for which consideration has been received or is receivable, classified as current." } } }, "auth_ref": ["r578"] }, "us-gaap_Depreciation": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "Depreciation", "crdr": "debit", "presentation": ["http://vuzix.com/role/DisclosureFixedAssetsScheduleOfFixedAssetsDetails"], "lang": { "en-us": { "role": { "label": "Depreciation", "verboseLabel": "Depreciation expense", "documentation": "The amount of expense recognized in the current period that reflects the allocation of the cost of tangible assets over the assets' useful lives. Includes production and non-production related depreciation." } } }, "auth_ref": ["r4", "r38"] }, "us-gaap_DepreciationAndAmortization": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "DepreciationAndAmortization", "crdr": "debit", "calculation": { "http://vuzix.com/role/StatementConsolidatedStatementsOfOperations": { "parentTag": "us-gaap_OperatingExpenses", "weight": 1.0, "order": 4.0 } }, "presentation": [

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or to record the reduction in book value of an intangible asset over the benefit period of such asset; or to reflect consumption during the period of an asset that is not used in production.", "label": "Depreciation and Amortization and Adjustments", "terseLabel": "Depreciation and Amortization" } } }, "auth_ref": [] }, "vuzi_DepreciationAndAmortizationIncludedInResearchAndDevelopmentExpense": { "xbrltype": "monetaryItemType", "nsuri": "http://vuzix.com/20240630", "localname": "DepreciationAndAmortizationIncludedInResearchAndDevelopmentExpense", "crdr": "debit", "presentation": ["http://vuzix.com/role/StatementConsolidatedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "documentation": "The amount of depreciation and amortization during the period, included in research and development expense.", "label": "Depreciation and Amortization, Included in Research and Development Expense", "terseLabel": "Depreciation and Amortization included in Research and Development Expense" } } }, "auth_ref": [] }, "us-gaap_DevelopmentCosts": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "DevelopmentCosts", "crdr": "debit", "presentation": ["http://vuzix.com/role/DisclosureOtherAssetsDetails"], "lang": { "en-us": { "role": { "label": "Development Costs, Period Cost", "verboseLabel": "Software Development Costs", "documentation": "The capitalized costs incurred during the period (excluded from amortization) to obtain access to proved reserves and to provide facilities for extracting, treating, gathering and storing the oil and gas." } } }, "auth_ref": ["r350"] }, "vuzi_DevelopmentCostsNet": { "xbrltype": "monetaryItemType", "nsuri": "http://vuzix.com/20240630", "localname": "DevelopmentCostsNet", "crdr": "debit", "presentation": ["http://vuzix.com/role/DisclosureOtherAssetsDetails"], "lang": { "en-us": { "role": { "documentation": "The amount of Development Costs, Net.", "label": "Development Costs, Net", "verboseLabel": "Software Development Costs, Net" } } }, "auth_ref": [] }, "us-gaap_DisaggregationOfRevenueTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "DisaggregationOfRevenueTableTextBlock", "presentation": ["http://vuzix.com/role/DisclosureRevenueRecognitionAndContractsWithCustomersTables"], "lang": { "en-us": { "role": { "label": "Disaggregation of Revenue [Table Text Block]", "verboseLabel": "Schedule of company's total revenue by major product lines", "documentation": "Tabular disclosure of disaggregation of revenue into categories depicting how nature, amount, timing, and uncertainty of revenue and cash flows are affected by economic factor." } } }, "auth_ref": ["r621"] }, "us-gaap_DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock", "presentation": ["http://vuzix.com/role/DisclosureStockBasedCompensation"], "lang": { "en-us": { "role": { "label": "Disclosure of Compensation Related Costs, Share-based Payments [Text Block]", "verboseLabel": "Stock-Based Compensation", "documentation": "The entire disclosure for share-based payment arrangement." } } }, "auth_ref": ["r256", "r257", "r284", "r285", "r287", "r480"] }, "us-gaap_DisclosureOfCompensationRelatedCostsSharebasedPaymentsAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "DisclosureOfCompensationRelatedCostsSharebasedPaymentsAbstract", "lang": { "en-us": { "role": { "label": "Stock-Based Compensation" } } }, "auth_ref": [] }, "vuzi_DisclosureOfLicensesNetAbstract": { "xbrltype": "stringItemType", "nsuri": "http://vuzix.com/20240630", "localname": "DisclosureOfLicensesNetAbstract", "lang": { "en-us": { "role": { "documentation": "n/a", "label": "Technology Licenses, Net" } } }, "auth_ref": [] }, "dei_DocumentFiscalPeriodFocus": { "xbrltype": "fiscalPeriodItemType", "nsuri": "http://xbrl.sec.gov/dei/2023", "localname": "DocumentFiscalPeriodFocus", "presentation": ["http://vuzix.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Document Fiscal Period Focus", "documentation": "Fiscal period values are FY, Q1, Q2, and Q3. 1st, 2nd and 3rd quarter 10-Q or 10-QT statements have value Q1, Q2, and Q3 respectively, with 10-K, 10-KT or other fiscal year statements having FY." } } }, "auth_ref": [] }, "dei_DocumentFiscalYearFocus": { "xbrltype": "gYearItemType", "nsuri": "http://xbrl.sec.gov/dei/2023", "localname": "DocumentFiscalYearFocus", "presentation": ["http://vuzix.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Document Fiscal Year Focus", "documentation": "This is focus fiscal year of the document report in YYYY format. For a 2006 annual report, which may also provide financial information from prior periods, fiscal 2006 should be given as the fiscal year focus. Example: 2006." } } }, "auth_ref": [] }, "dei_DocumentPeriodEndDate": { "xbrltype": "dateItemType", "nsuri": "http://xbrl.sec.gov/dei/2023", "localname": "DocumentPeriodEndDate", "presentation": ["http://vuzix.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Document Period End Date", "documentation": "For the EDGAR submission types of Form 8-K: the date of the report, the date of the earliest event reported; for the EDGAR submission types of Form N-1A: the filing date; for all other submission types: the end of the reporting or transition period. The format of the date is YYYY-MM-DD." } } }, "auth_ref": [] }, "dei_DocumentQuarterlyReport": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2023", "localname": "DocumentQuarterlyReport", "presentation": ["http://vuzix.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Document Quarterly Report", "documentation": "Boolean flag that is true only for a form used as an quarterly report." } } }, "auth_ref": ["r501"] }, "dei_DocumentTransitionReport": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2023", "localname": "DocumentTransitionReport", "presentation": ["http://vuzix.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Document Transition Report", "documentation": "Boolean flag that is true only for a form used as a transition report." } } }, "auth_ref": ["r534"] }, "dei_DocumentType": { "xbrltype": "submissionTypeItemType", "nsuri": "http://xbrl.sec.gov/dei/2023", "localname": "DocumentType", "presentation": ["http://vuzix.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Document

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'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days." } } }, "auth_ref": ["r286"] }, "us-gaap_EmployeeStockOptionMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "EmployeeStockOptionMember", "presentation": ["http://vuzix.com/role/DisclosureLongTermIncentivePlanDetails", "http://vuzix.com/role/DisclosureStockBasedCompensationSummaryOfStockOptionActivityDetails", "http://xbrl.sec.gov/ecd/role/AwardTimingDisclosure"], "lang": { "en-us": { "role": { "label": "Employee Stock Option [Member]", "terseLabel": "Employee Stock Option", "documentation": "Share-based payment arrangement granting right, subject to vesting and other restrictions, to purchase or sell certain number of shares at predetermined price for specified period of time." } } }, "auth_ref": [] }, "us-gaap_EnergyServiceMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": 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It is commonly abbreviated as CIK." } } }, "auth_ref": ["r499"] },

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Where multiple classes or units exist define each class/interest by adding class of stock items such as Common Class A [Member], Common Class B [Member] or Partnership Interest [Member] onto the Instrument [Domain] of the Entity Listings, Instrument." } } }, "auth_ref": [] }, "dei_EntityCurrentReportingStatus": { "xbrltype": "yesNoItemType", "nsuri": "http://xbrl.sec.gov/dei/2023", "localname": "EntityCurrentReportingStatus", "presentation": ["http://vuzix.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Current Reporting Status", "documentation": "Indicate 'Yes' or 'No' whether registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that registrants were required to file such reports), and (2) have been subject to such filing requirements for the past 90 days. This information should be based on the registrant's current or most recent filing containing the related disclosure." } } }, "auth_ref": [] }, "dei_EntityEmergingGrowthCompany": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2023", "localname": "EntityEmergingGrowthCompany", "presentation": ["http://vuzix.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Emerging Growth Company", "documentation": "Indicate if registrant meets the emerging growth company criteria." } } }, "auth_ref": ["r499"] }, "dei_EntityFileNumber": { "xbrltype": "fileNumberItemType", "nsuri": "http://xbrl.sec.gov/dei/2023", "localname": "EntityFileNumber", "presentation": ["http://vuzix.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity File Number", "documentation": "Commission file number. The field allows up to 17 characters. The prefix may contain 1-3 digits, the sequence number may contain 1-8 digits, the optional suffix may contain 1-4 characters, and the fields are separated with a hyphen." } } }, "auth_ref": [] }, "dei_EntityFilerCategory": { "xbrltype": "filerCategoryItemType", "nsuri": "http://xbrl.sec.gov/dei/2023", "localname": "EntityFilerCategory", "presentation": ["http://vuzix.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Filer Category", "documentation": "Indicate whether the registrant is one of the following: Large Accelerated Filer, Accelerated Filer, Non-accelerated Filer. Definitions of these categories are stated in Rule 12b-2 of the Exchange Act. This information should be based on the registrant's current or most recent filing containing the related disclosure." } } }, "auth_ref": ["r499"] }, "dei_EntityIncorporationStateCountryCode": { "xbrltype": "edgarStateCountryItemType", "nsuri": "http://xbrl.sec.gov/dei/2023", "localname": "EntityIncorporationStateCountryCode", "presentation": ["http://vuzix.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Incorporation, State or Country Code", "documentation": "Two-character EDGAR code representing the state or country of incorporation." } } }, "auth_ref": [] }, "dei_EntityInteractiveDataCurrent": { "xbrltype": "yesNoItemType", "nsuri": "http://xbrl.sec.gov/dei/2023", "localname": "EntityInteractiveDataCurrent", "presentation": ["http://vuzix.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Interactive Data Current", "documentation": "Boolean flag that is true when the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit such files)." } } }, "auth_ref": ["r573"] }, "dei_EntityRegistrantName": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2023", "localname": "EntityRegistrantName", "presentation": ["http://vuzix.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Registrant Name", "documentation": "The exact name of the entity filing the report as specified in its charter, which is required by forms filed with the SEC." } } }, "auth_ref": ["r499"] }, "dei_EntityShellCompany": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2023", "localname": "EntityShellCompany", "presentation": ["http://vuzix.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Shell Company", "documentation": "Boolean flag that is true when the registrant is a shell company as defined in Rule 12b-2 of the Exchange Act." } } }, "auth_ref": ["r499"] }, "dei_EntitySmallBusiness": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2023", "localname": "EntitySmallBusiness", "presentation": ["http://vuzix.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Small Business", "documentation": "Indicates that the company is a Smaller Reporting Company (SRC)." } } }, "auth_ref": ["r499"] }, "dei_EntityTaxIdentificationNumber": { "xbrltype": "employerIdItemType", "nsuri": "http://xbrl.sec.gov/dei/2023", "localname": "EntityTaxIdentificationNumber", "presentation": ["http://vuzix.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Entity Tax Identification Number", "documentation": "The Tax Identification Number (TIN), also known as an Employer Identification Number (EIN), is a unique 9-digit value assigned by the IRS." } } }, "auth_ref": ["r499"] }, "us-gaap_EquityBasedArrangementsIndividualContractsTypeOfDeferredCompensationDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "EquityBasedArrangementsIndividualContractsTypeOfDeferredCompensationDomain", "presentation": ["http://vuzix.com/role/DisclosureLongTermIncentivePlanDetails", "http://vuzix.com/role/DisclosureLongTermIncentivePlanLtipDetails"], "lang": { "en-us": { "role": { "label": "Equity-Based Arrangements, Individual Contracts, Type of Deferred Compensation [Domain]", "documentation": "Deferred compensation related to equity-based payment arrangements. Includes, but is not limited to, employment contracts with one or more selected officers or key employees. Excludes broad group equity-based compensation plans, defined benefit pension plans, defined benefit other postretirement benefit plans and other deferred compensation that is not equivalent to a defined benefit pension plan or a defined benefit other postretirement benefit plan." } } }, "auth_ref": ["r44"] }, "us-gaap_EquityComponentDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "EquityComponentDomain", "presentation": ["http://vuzix.com/role/StatementConsolidatedStatementsOfChangesInStockholdersEquity"], "lang": { "en-us": { "role": { "label": "Equity Component [Domain]", "documentation": "Components of equity are the parts of the total Equity balance including that which is allocated to common, preferred, treasury stock, retained earnings, etc." } } }, "auth_ref": ["r9", "r108", "r126", "r127", "r128", "r141", "r142", "r143", "r145", "r151", "r153", "r168", "r197", "r198", "r241", "r288", "r289", "r290", "r297", "r298", "r311", "r312", "r313", "r314", "r315", "r316", "r318", "r326", "r327", "r328", "r329", "r330", "r331", "r339", "r371", "r372", "r373", "r385", "r445"] }, "vuzi_EquityMarketAndOperationalMilestoneOptionsAvailable": { "xbrltype": "sharesItemType", "nsuri": "http://vuzix.com/20240630", "localname": "EquityMarketAndOperationalMilestoneOptionsAvailable",

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Investments and Joint Ventures Disclosure [Text Block]", "terseLabel": "Investment in Atomistic", "documentation":
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investments that give the investor the ability to exercise significant influence over the operating and financial
policies of an investee. Joint ventures are entities owned and operated by a small group of businesses as a separate
and specific business or project for the mutual benefit of the members of the group." } } }, "auth_ref": ["r105",
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These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r602", "r603", "r604"] }, "us-gaap_EquitySecuritiesWithoutReadilyDeterminableFairValueTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "EquitySecuritiesWithoutReadilyDeterminableFairValueTable", "presentation": ["http://vuzix.com/role/DisclosureInvestmentInAtomisticDetails"], "lang": { "en-us": { "role": { "label": "Equity Securities without Readily Determinable Fair Value [Table]", "documentation": "Disclosure of information about investment in equity security without readily determinable fair value." } } }, "auth_ref": ["r602", "r603", "r604"] }, "ecd_EquityValuationAssumptionDifferenceFnTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2023", "localname": "EquityValuationAssumptionDifferenceFnTextBlock", "presentation": 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Compensation Recovery" } } }, "auth_ref": ["r503", "r514", "r524", "r549"] }, "vuzi_EstimatedTotalCommonStockValueToBeSold": { "xbrltype": "monetaryItemType", "nsuri": "http://vuzix.com/20240630", "localname": "EstimatedTotalCommonStockValueToBeSold", "crdr": "debit", "presentation": ["http://vuzix.com/role/DisclosureBasisOfPresentationGoingConcernDetails"], "lang": { "en-us": { "role": { "documentation": "Estimated total common stock value may be issued and sold.", "label": "Estimated Total common stock value to be sold", "terseLabel": "Estimated total common stock value to be issued and sold" } } }, "auth_ref": [] }, "ecd_ExecutiveCategoryAxis": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2023", "localname": "ExecutiveCategoryAxis", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Executive Category [Axis]", "terseLabel": "Executive Category:" } } }, "auth_ref": ["r548"] }, 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Excludes interim and annual periods when interim periods are reported from current statement of

financial position date (rolling approach)." } } }, "auth_ref": ["r83"] }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearFive": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseYearFive", "crdr": "debit", "presentation": ["http://vuzix.com/role/DisclosureTechnologyLicensesNetAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Finite-Lived Intangible Asset, Expected Amortization, Year Five", "terseLabel": "Annual amortization expense (Year5)", "documentation": "Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fifth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r83"] }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearFour": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseYearFour", "crdr": "debit", "presentation": ["http://vuzix.com/role/DisclosureTechnologyLicensesNetAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Finite-Lived Intangible Asset, Expected Amortization, Year Four", "terseLabel": "Annual amortization expense (Year4)", "documentation": "Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fourth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r83"] }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearThree": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseYearThree", "crdr": "debit", "presentation": ["http://vuzix.com/role/DisclosureTechnologyLicensesNetAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Finite-Lived Intangible Asset, Expected Amortization, Year Three", "terseLabel": "Annual amortization expense (Year3)", "documentation": "Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r83"] }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearTwo": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseYearTwo", "crdr": "debit", "presentation": ["http://vuzix.com/role/DisclosureTechnologyLicensesNetAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Finite-Lived Intangible Asset, Expected Amortization, Year Two", "terseLabel": "Annual amortization expense (Year2)", "documentation": "Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r83"] }, "us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "FiniteLivedIntangibleAssetsByMajorClassAxis", "presentation": ["http://vuzix.com/role/DisclosureTechnologyLicensesNetAdditionalInformationDetails", "http://vuzix.com/role/DisclosureTechnologyLicensesNetDetails", "http://vuzix.com/role/DisclosureTechnologyLicensesNetTables"], "lang": { "en-us": { "role": { "label": "Finite-Lived Intangible Assets by Major Class [Axis]", "documentation": "Information by major type or class of finite-lived intangible assets." } } }, "auth_ref": ["r202", "r203", "r204", "r205", "r348", "r349"] }, "us-gaap_FiniteLivedIntangibleAssetsGross": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "FiniteLivedIntangibleAssetsGross", "crdr": "debit", "presentation": ["http://vuzix.com/role/DisclosureTechnologyLicensesNetDetails"], "lang": { "en-us": { "role": { "label": "Finite-Lived Intangible Assets, Gross", "verboseLabel": "Licenses", "documentation": "Amount before amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life." } } }, "auth_ref": ["r82", "r349"] }, "us-gaap_FiniteLivedIntangibleAssetsMajorClassNameDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "FiniteLivedIntangibleAssetsMajorClassNameDomain", "presentation": ["http://vuzix.com/role/DisclosureTechnologyLicensesNetAdditionalInformationDetails", "http://vuzix.com/role/DisclosureTechnologyLicensesNetDetails", "http://vuzix.com/role/DisclosureTechnologyLicensesNetTables"], "lang": { "en-us": { "role": { "label": "Finite-Lived Intangible Assets, Major Class Name [Domain]", "documentation": "The major class of finite-lived intangible asset (for example, patents, trademarks, copyrights, etc.) A major class is composed of intangible assets that can be grouped together because they are similar, either by their nature or by their use in the operations of a company." } } }, "auth_ref": ["r34", "r36"] }, "vuzi_FiniteLivedIntangibleAssetsWriteOff": { "xbrltype": "monetaryItemType", "nsuri": "http://vuzix.com/20240630", "localname": "FiniteLivedIntangibleAssetsWriteOff", "crdr": "credit", "presentation": ["http://vuzix.com/role/DisclosureTechnologyLicensesNetDetails"], "lang": { "en-us": { "role": { "documentation": "The amount of write-down from the carrying value of a finite-lived intangible asset.", "label": "Finite Lived Intangible Assets, Write Off", "terseLabel": "Write Offs" } } }, "auth_ref": [] }, "vuzi_FiniteLivedLicenseAgreementsNoncurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://vuzix.com/20240630", "localname": "FiniteLivedLicenseAgreementsNoncurrent", "crdr": "debit", "calculation": { "http://vuzix.com/role/StatementConsolidatedBalanceSheets": { "parentTag": "us-gaap_Assets", "weight": 1.0, "order": 5.0 } }, "presentation": ["http://vuzix.com/role/DisclosureTechnologyLicensesNetDetails", "http://vuzix.com/role/StatementConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "documentation": "Amount of finite lived license agreements, noncurrent.", "label": "Finite Lived License Agreements Noncurrent", "terseLabel": "Technology Licenses, Net", "verboseLabel": "Licenses, Net" } } }, "auth_ref": [] }, "us-gaap_ForeignCurrencyTransactionGainLossBeforeTax": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "ForeignCurrencyTransactionGainLossBeforeTax", "crdr": "credit", "calculation": { "http://vuzix.com/role/StatementConsolidatedStatementsOfOperations": { "parentTag": "us-gaap_NonoperatingIncomeExpense", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://vuzix.com/role/StatementConsolidatedStatementsOfOperations"], "lang": { "en-us": { "role": { "label": "Foreign Currency Transaction Gain (Loss), before Tax", "verboseLabel": "Foreign Exchange Loss", "documentation": "Amount, before tax, of realized and unrealized gain (loss) from foreign currency transaction." } } }, "auth_ref": ["r322", "r323", "r324", "r325", "r442"] }, "ecd_ForgoneRecoveryDueToDisqualificationOfTaxBenefitsAmt": { "xbrltype": "monetaryItemType", "nsuri": "http://xbrl.sec.gov/ecd/2023", "localname": "ForgoneRecoveryDueToDisqualificationOfTaxBenefitsAmt", "presentation": ["http://xbrl.sec.gov/ecd/role/ErrCompDisclosure"], "lang": { "en-us": { "role": { "label": "Forgone Recovery due to Disqualification of Tax Benefits, Amount", "terseLabel": "Forgone Recovery due to Disqualification of Tax Benefits, Amount" } } }, "auth_ref": ["r510", "r521", "r531", "r556"] },

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Before Provision for Income Taxes", "documentation": "Amount of income (loss) from continuing operations,
including income (loss) from equity method investments, before deduction of income tax expense (benefit), and
income (loss) attributable to noncontrolling interest." } } }, "auth_ref": ["r0", "r69", "r94", "r171", "r176", "r180",
"r182", "r352", "r360", "r474"] }, "us-gaap_IncomeStatementAbstract": { "xbrltype": "stringItemType", "nsuri":
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"documentation": "The entire disclosure for income taxes. Disclosures may include net deferred tax liability or asset
recognized in an enterprise's statement of financial position, net change during the year in the total valuation
allowance, approximate tax effect of each type of temporary difference and carryforward that gives rise to a
significant portion of deferred tax liabilities and deferred tax assets, utilization of a tax carryback, and tax
uncertainties information." } } }, "auth_ref": ["r137", "r293", "r294", "r295", "r296", "r299", "r300", "r301", "r302",
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invoices have typically been received) and payable to vendors for goods and services received that are used in an
entity's business." } } }, "auth_ref": ["r3"] }, "us-gaap_IncreaseDecreaseInAccountsReceivable": { "xbrltype":
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customers for the credit sale of goods and services." } } }, "auth_ref": ["r3"] }, "us-
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Includes, but is not limited to, the basis of stating inventory, the method of determining inventory cost, the classes of inventory, and the nature of the cost elements included in inventory." } } }, "auth_ref": ["r201"] }, "us-gaap_InventoryFinishedGoods": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "InventoryFinishedGoods", "crdr": "debit", "calculation": { "http://vuzix.com/role/DisclosureInventoriesNetComponentsOfInventoriesDetail": { "parentTag": "us-gaap_InventoryNet", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://vuzix.com/role/DisclosureInventoriesNetComponentsOfInventoriesDetail"], "lang": { "en-us": { "role": { "label": "Inventory, Finished Goods, Gross", "terseLabel": "Finished Goods", "documentation": "Amount before valuation and LIFO reserves of completed merchandise or goods expected to be sold within one year or operating cycle, if longer." } } }, "auth_ref": ["r587"] }, "us-gaap_InventoryNet": { "xbrltype": 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Includes, but is not limited to, reconciliation of undiscounted cash flows to operating lease liability recognized in statement of financial position." } } }, "auth_ref": ["r652"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "LesseeOperatingLeaseLiabilityPaymentsDue", "crdr": "credit", "calculation": { "http://vuzix.com/role/DisclosureRightOfUseAssetsAndLiabilitiesOperatingLeasesDetails": { "parentTag": null, "weight": null, "order": null, "root": true }, "http://vuzix.com/role/DisclosureRightOfUseAssetsAndLiabilitiesOperatingLeasesDetailsCalc2": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://vuzix.com/role/DisclosureRightOfUseAssetsAndLiabilitiesOperatingLeasesDetails"], "lang": { "en-us": { "role": { "label": "Lessee, Operating Lease, Liability, Payments, Due", "totalLabel": "Total Future Lease Payments", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease." } } }, "auth_ref": ["r338"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueNextTwelveMonths": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "LesseeOperatingLeaseLiabilityPaymentsDueNextTwelveMonths", "crdr": "credit", "calculation": { "http://vuzix.com/role/DisclosureRightOfUseAssetsAndLiabilitiesOperatingLeasesDetails": { "parentTag": "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://vuzix.com/role/DisclosureRightOfUseAssetsAndLiabilitiesOperatingLeasesDetails"], "lang": { "en-us": { "role": { "label": "Operating Leases, Future Minimum Payments Due, Next Twelve Months", "terseLabel": "2025", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease to be paid in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r338"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsRemainderOfFiscalYear": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "LesseeOperatingLeaseLiabilityPaymentsRemainderOfFiscalYear", "crdr": "credit", "calculation": { "http://vuzix.com/role/DisclosureRightOfUseAssetsAndLiabilitiesOperatingLeasesDetails": { "parentTag": "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://vuzix.com/role/DisclosureRightOfUseAssetsAndLiabilitiesOperatingLeasesDetails"], "lang": { "en-us": { "role": { "label": "Lessee, Operating Lease, Liability, Payments, Remainder of Fiscal Year", "terseLabel": "2024", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease having initial or remaining lease term in excess of one year to be paid in remainder of current fiscal year." } } }, "auth_ref": ["r652"] }, "us-gaap_LesseeOperatingLeaseLiabilityUndiscountedExcessAmount": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "LesseeOperatingLeaseLiabilityUndiscountedExcessAmount", "crdr": "credit", "calculation": { "http://vuzix.com/role/DisclosureRightOfUseAssetsAndLiabilitiesOperatingLeasesDetailsCalc2": { "parentTag": "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://vuzix.com/role/DisclosureRightOfUseAssetsAndLiabilitiesOperatingLeasesDetails"], "lang": { "en-us": { "role": { "label": "Lessee, Operating Lease, Liability, Undiscounted Excess Amount", "negatedTerseLabel": "Less: Imputed Interest", "documentation": "Amount of lessee's undiscounted obligation for lease payments in excess of discounted obligation for lease payments for operating lease." } } }, "auth_ref": ["r338"] }, "us-gaap_LesseeOperatingLeasesTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "LesseeOperatingLeasesTextBlock", "presentation": ["http://vuzix.com/role/DisclosureRightOfUseAssetsAndLiabilities"], "lang": { "en-us": { "role": { "label": "Lessee, Operating Lease, Disclosure [Table Text Block]", "verboseLabel": "Right-of-Use Assets and Liabilities", "documentation": "The entire disclosure for operating leases of lessee. Includes, but is not limited to, description of operating lease and maturity analysis of operating lease liability." } } }, "auth_ref": ["r333"] }, "us-gaap_Liabilities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "Liabilities", "crdr": "credit", "calculation": { "http://vuzix.com/role/StatementConsolidatedBalanceSheets": { "parentTag": "us-gaap_LiabilitiesAndStockholdersEquity", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://vuzix.com/role/StatementConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Liabilities", "totalLabel": "Total Liabilities", "documentation": "Sum of the carrying amounts as of the balance sheet date of all liabilities that are recognized. Liabilities are probable future sacrifices of economic benefits arising from present obligations of an entity to transfer assets or provide services to other entities in the future." } } }, "auth_ref": ["r18", "r136", "r195", "r216", "r217", "r218", "r219", "r220", "r221", "r222", "r223", "r224", "r306", "r309", "r310", "r321", "r405", "r473", "r497", "r615", "r654", "r655"] }, "us-gaap_LiabilitiesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "LiabilitiesAbstract", "presentation": ["http://vuzix.com/role/StatementConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Liabilities [Abstract]", "terseLabel": "Liabilities" } } }, "auth_ref": [] }, "us-gaap_LiabilitiesAndStockholdersEquity": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "LiabilitiesAndStockholdersEquity", "crdr": "credit", "calculation": { "http://vuzix.com/role/StatementConsolidatedBalanceSheets": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://vuzix.com/role/StatementConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Liabilities and Equity", "totalLabel": "Total Liabilities and Stockholders' Equity", "documentation": "Amount of liabilities and equity items, including the portion of equity attributable to noncontrolling interests, if any." } } }, "auth_ref": ["r65", "r93", "r357", "r484", "r595", "r605", "r651"] }, "us-gaap_LiabilitiesAndStockholdersEquityAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "LiabilitiesAndStockholdersEquityAbstract", "presentation": ["http://vuzix.com/role/StatementConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Liabilities and Equity [Abstract]", "terseLabel": "LIABILITIES AND STOCKHOLDERS' EQUITY" } } }, "auth_ref": [] }, "us-gaap_LiabilitiesCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname":

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Financing activity cash flows include obtaining resources from owners and providing them with a return on, and a return of, their investment; borrowing money and repaying amounts borrowed, or settling the obligation; and obtaining and paying for other resources obtained from creditors on long-term credit." } } }, "auth_ref": ["r133"] }, "us-gaap_NetCashProvidedByUsedInFinancingActivitiesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "NetCashProvidedByUsedInFinancingActivitiesAbstract", "presentation": ["http://vuzix.com/role/StatementConsolidatedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Net Cash Provided by (Used in) Financing Activities [Abstract]", "terseLabel": "Cash Flows Provided by (Used in) Financing Activities" } } }, "auth_ref": [] }, "us-gaap_NetCashProvidedByUsedInInvestingActivities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "NetCashProvidedByUsedInInvestingActivities", "crdr": "debit", "calculation": { "http://vuzix.com/role/StatementConsolidatedStatementsOfCashFlows": { "parentTag": "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeR "weight": 1.0, "order": 3.0 } }, "presentation": ["http://vuzix.com/role/DisclosureBasisOfPresentationGoingConcernDetails", "http://vuzix.com/role/StatementConsolidatedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Net Cash Provided by (Used in) Investing Activities", "totalLabel": "Net Cash Flows Used in Investing Activities", "documentation": "Amount of cash inflow (outflow) from investing activities, including discontinued operations. Investing activity cash flows include making and collecting loans and acquiring and disposing of debt or equity instruments and property, plant, and equipment and other productive assets." } } }, "auth_ref": ["r133"] }, "us-gaap_NetCashProvidedByUsedInInvestingActivitiesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "NetCashProvidedByUsedInInvestingActivitiesAbstract", "presentation": ["http://vuzix.com/role/StatementConsolidatedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Net Cash Provided by (Used in) Investing Activities [Abstract]", "verboseLabel": "Cash Flows Used in Investing Activities" } } }, "auth_ref": [] }, "us-gaap_NetCashProvidedByUsedInOperatingActivities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "NetCashProvidedByUsedInOperatingActivities", "calculation": { "http://vuzix.com/role/StatementConsolidatedStatementsOfCashFlows": { "parentTag": "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeR "weight": 1.0, "order": 1.0 } }, "presentation": ["http://vuzix.com/role/DisclosureBasisOfPresentationGoingConcernDetails", "http://vuzix.com/role/StatementConsolidatedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Net Cash Provided by (Used in) Operating Activities", "terseLabel": "Net Cash Flows Used in Operating Activities", "totalLabel": "Net Cash Flows Used in Operating Activities", "documentation": "Amount of cash inflow (outflow) from operating activities, including discontinued operations. Operating activity cash flows include transactions,

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Includes, but is not limited to, quantification of the expected or actual impact." } } }, "auth_ref": [] }, "ecd_NonGaapMeasureDescriptionTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2023", "localname": "NonGaapMeasureDescriptionTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Non-GAAP Measure Description [Text Block]", "terseLabel": "Non-GAAP Measure Description" } } }, "auth_ref": ["r540"] }, "ecd_NonNeosMember": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/ecd/2023", "localname": "NonNeosMember", "presentation": ["http://xbrl.sec.gov/ecd/role/ErrCompDisclosure"], "lang": { "en-us": { "role": { "label": "Non-NEOs [Member]", "terseLabel": "Non-NEOs" } } }, "auth_ref": ["r510", "r521", "r531", "r548", "r556"] }, "ecd_NonPeoNeoAvgCompActuallyPaidAmt": { "xbrltype": "monetaryItemType", "nsuri": "http://xbrl.sec.gov/ecd/2023", "localname": 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For classified balance sheets, represents the current portion of the liabilities (due within one year or within the normal operating cycle if longer)." } } }, "auth_ref": ["r19", "r612", "r613"] }, "us-gaap_ProductWarrantyAccrualPayments": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "ProductWarrantyAccrualPayments", "crdr": "debit", "presentation": ["http://vuzix.com/role/DisclosureAccruedExpensesChangesInAccruedWarrantyObligationsDetails"], "lang": { "en-us": { "role": { "label": "Standard and Extended Product Warranty Accrual, Decrease for Payments", "negatedLabel": "Reductions for Settling Warranties", "documentation": "Amount of decrease in the standard and extended product warranty accrual from payments made in cash or in kind to satisfy claims under the terms of the standard and extended product warranty." } } }, "auth_ref": ["r213"] }, "us-gaap_ProductWarrantyAccrualWarrantiesIssued": {

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Includes, but is not limited to, work of art, historical treasure, and similar asset classified as collections." } } }, "auth_ref": ["r84", "r98", "r103", "r104"] }, "us-gaap_PropertyPlantAndEquipmentGross": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "PropertyPlantAndEquipmentGross", "crdr": "debit", "calculation": { "http://vuzix.com/role/DisclosureFixedAssetsScheduleOfFixedAssetsDetails": { "parentTag": "us-gaap_PropertyPlantAndEquipmentNet", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://vuzix.com/role/DisclosureFixedAssetsScheduleOfFixedAssetsDetails"], "lang": { "en-us": { "role": { "label": "Property, Plant and Equipment, Gross", "verboseLabel": "Fixed Assets, Gross", "documentation": "Amount before accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures." } } }, "auth_ref": ["r85", "r113", "r359"] }, "us-gaap_PropertyPlantAndEquipmentLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "PropertyPlantAndEquipmentLineItems", "presentation": ["http://vuzix.com/role/DisclosureFixedAssetsScheduleOfFixedAssetsDetails"], "lang": { "en-us": { "role": { "label": "Property, Plant and Equipment [Line Items]", "verboseLabel": "Property, Plant and Equipment", "documentation": "Line items represent financial concepts included in a table. 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Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures." } } }, "auth_ref": ["r5", "r353", "r359", "r484"] }, "us-gaap_PropertyPlantAndEquipmentNetAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "PropertyPlantAndEquipmentNetAbstract", "lang": { "en-us": { "role": { "label": "Fixed Assets" } } }, "auth_ref": [] }, "vuzi_PropertyPlantAndEquipmentNotPlacedInService": { "xbrltype": "monetaryItemType", "nsuri": "http://vuzix.com/20240630", "localname": "PropertyPlantAndEquipmentNotPlacedInService", "crdr": "debit", "presentation": ["http://vuzix.com/role/DisclosureFixedAssetsScheduleOfFixedAssetsDetails"], "lang": { "en-us": { "role": { "documentation": "Amount of fixed assets purchased but not used in the normal conduct of business to produce goods and services and not intended for resale.", "label": "Property, Plant and Equipment, Not Placed In Service", "terseLabel": "Fixed assets not yet placed in service" } } }, "auth_ref": [] }, "us-gaap_PropertyPlantAndEquipmentTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "PropertyPlantAndEquipmentTextBlock", "presentation": ["http://vuzix.com/role/DisclosureFixedAssetsTables"], "lang": { "en-us": { "role": { "label": "Property, Plant and Equipment [Table Text Block]", "terseLabel": "Schedule of Fixed Assets", "documentation": "Tabular disclosure of physical assets used in the normal conduct of business and not intended for resale. Includes, but is not limited to, balances by class of assets, depreciation and depletion expense and method used, including composite depreciation, and accumulated deprecation." } } }, "auth_ref": ["r5"] }, "us-gaap_PropertyPlantAndEquipmentTypeDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname":

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Includes, but is not limited to, disaggregation of revenue, credit loss recognized from contract with customer, judgment and change in judgment related to contract with customer, and asset recognized from cost incurred to obtain or fulfill contract with customer. Excludes insurance and lease contracts." } } }, "auth_ref": ["r106", "r242", "r243", "r244", "r245", "r246", "r247", "r248", "r249", "r250"] }, "vuzi_RevenuePerformanceObligationPercentage": { "xbrltype": "percentItemType", "nsuri": "http://vuzix.com/20240630", "localname": "RevenuePerformanceObligationPercentage", "presentation": ["http://vuzix.com/role/DisclosureRevenueRecognitionAndContractsWithCustomersCompanySNetSalesAsPercentageDe], "lang": { "en-us": { "role": { "documentation": "It represents the percentage rate of revenue performance obligation.", "label": "Revenue Performance Obligation Percentage", "terseLabel": "Revenue performance obligation percentage" } } }, "auth_ref": [] }, "vuzi_RevenuePerformanceObligationRecognitionMethodAxis": { "xbrltype": "stringItemType", "nsuri": "http://vuzix.com/20240630", "localname": "RevenuePerformanceObligationRecognitionMethodAxis", "presentation": ["http://vuzix.com/role/DisclosureRevenueRecognitionAndContractsWithCustomersCompanySNetSalesAsPercentageDe], "lang": { "en-us": { "role": { "label": "Revenue Performance Obligation recognition Method [Axis]" } } }, "auth_ref": [] }, "vuzi_RevenuePerformanceObligationRecognitionMethodDomain": { "xbrltype": "domainItemType", "nsuri": "http://vuzix.com/20240630", "localname": "RevenuePerformanceObligationRecognitionMethodDomain", "presentation": ["http://vuzix.com/role/DisclosureRevenueRecognitionAndContractsWithCustomersCompanySNetSalesAsPercentageDe], "lang": { "en-us": { "role": { "label": "Revenue Performance Obligation recognition Method [Domain]" } } }, "auth_ref": [] }, "vuzi_RevenuePerformanceObligationTotalTransactionPrice": { "xbrltype": "monetaryItemType", "nsuri": "http://vuzix.com/20240630", "localname": "RevenuePerformanceObligationTotalTransactionPrice", "crdr": "credit", "presentation": ["http://vuzix.com/role/DisclosureRevenueRecognitionAndContractsWithCustomersAdditionalInformationDetails"], "lang": { "en-us": { "role": { "documentation": "Amount of total transaction price of performance obligation.", "label": "Revenue, Performance Obligation, Total Transaction Price", "terseLabel": "Revenue, performance obligation, total transaction price" } } }, "auth_ref": [] }, "us-gaap_RevenueRemainingPerformanceObligation": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "RevenueRemainingPerformanceObligation", "crdr": "credit", "presentation": ["http://vuzix.com/role/DisclosureRevenueRecognitionAndContractsWithCustomersAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Revenue, Remaining Performance Obligation, Amount", "verboseLabel": "Revenue, remaining performance obligations", "documentation": "Amount of transaction price allocated to performance obligation that has not been recognized as revenue." } } }, "auth_ref": ["r101"] }, "us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionPeriod1": { "xbrltype": "durationItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionPeriod1", "presentation": ["http://vuzix.com/role/DisclosureRevenueRecognitionAndContractsWithCustomersAdditionalInformationDetails", "http://vuzix.com/role/DisclosureRevenueRecognitionAndContractsWithCustomersCompanySNetSalesAsPercentageDe], "lang": { "en-us": { "role": { "label": "Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Period", "terseLabel": "Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Period", "documentation": "Period in which remaining performance obligation is expected to be recognized as

revenue, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days." } } }, "auth_ref": ["r102"] }, "us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionStartDateAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionStartDateAxis", "presentation": ["http://vuzix.com/role/DisclosureRevenueRecognitionAndContractsWithCustomersAdditionalInformationDetails", "http://vuzix.com/role/DisclosureRevenueRecognitionAndContractsWithCustomersCompanySNetSalesAsPercentageDe], "lang": { "en-us": { "role": { "label": "Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]", "documentation": "Start date of time band for expected timing of satisfaction of remaining performance obligation, in YYYY-MM-DD format." } } }, "auth_ref": ["r102"] }, "us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionTableTextBlock", "presentation": ["http://vuzix.com/role/DisclosureRevenueRecognitionAndContractsWithCustomersTables"], "lang": { "en-us": { "role": { "label": "Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Table Text Block]", "verboseLabel": "Schedule of company's net sales by revenue recognition method as a percentage of total net sales", "documentation": "Tabular disclosure of expected timing for satisfying remaining performance obligation." } } }, "auth_ref": ["r579"] }, "us-gaap_RevenueRemainingPerformanceObligationPercentage": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "RevenueRemainingPerformanceObligationPercentage", "presentation": ["http://vuzix.com/role/DisclosureRevenueRecognitionAndContractsWithCustomersCompanySNetSalesAsPercentageDe], "lang": { "en-us": { "role": { "label": "Revenue, Remaining Performance Obligation, Percentage", "terseLabel": "Revenue, Remaining Performance Obligation, Percentage", "documentation": "Percentage of remaining performance obligation to total remaining performance obligation not recognized as revenue." } } }, "auth_ref": ["r579"] }, "us-gaap_Revenues": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "Revenues", "crdr": "credit", "calculation": { "http://vuzix.com/role/StatementConsolidatedStatementsOfOperations": { "parentTag": "us-gaap_GrossProfit", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://vuzix.com/role/DisclosureRevenueRecognitionAndContractsWithCustomersCompanySTotalRevenueByMajorPro "http://vuzix.com/role/StatementConsolidatedStatementsOfOperations"], "lang": { "en-us": { "role": { "label": "Revenues", "terseLabel": "Total Sales", "verboseLabel": "Revenue", "documentation": "Amount of revenue recognized from goods sold, services rendered, insurance premiums, or other activities that constitute an earning process. Includes, but is not limited to, investment and interest income before deduction of interest expense when recognized as a component of revenue, and sales and trading gain (loss)." } } }, "auth_ref": ["r129", "r136", "r172", "r173", "r175", "r178", "r179", "r183", "r184", "r185", "r195", "r216", "r217", "r218", "r219", "r220", "r221", "r222", "r223", "r224", "r321", "r352", "r615"] }, "us-gaap_RevenuesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "RevenuesAbstract", "presentation": ["http://vuzix.com/role/StatementConsolidatedStatementsOfOperations"], "lang": { "en-us": { "role": { "label": "Revenues [Abstract]", "verboseLabel": "Sales:" } } }, "auth_ref": [] }, "ecd_Rule10b51ArrAdoptedFlag": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/ecd/2023", "localname": "Rule10b51ArrAdoptedFlag", "presentation": ["http://xbrl.sec.gov/ecd/role/InsiderTradingArrangements"], "lang": { "en-us": { "role": { "label": "Rule 10b5-1 Arrangement Adopted [Flag]", "terseLabel": "Rule 10b5-1 Arrangement Adopted" } } }, "auth_ref": ["r567"] }, "ecd_Rule10b51ArrTrmntdFlag": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/ecd/2023", "localname": "Rule10b51ArrTrmntdFlag", "presentation": ["http://xbrl.sec.gov/ecd/role/InsiderTradingArrangements"], "lang": { "en-us": { "role": { "label": "Rule 10b5-1 Arrangement Terminated [Flag]", "terseLabel": "Rule 10b5-1 Arrangement Terminated" } } }, "auth_ref": ["r567"] }, "vuzi_Rule10b51ArrangementModifiedFlag": { "xbrltype": "booleanItemType", "nsuri": "http://vuzix.com/20240630", "localname": "Rule10b51ArrangementModifiedFlag", "presentation": ["http://xbrl.sec.gov/ecd/role/InsiderTradingArrangements"], "lang": { "en-us": { "role": { "documentation": "Rule 10b5-1 Arrangement Modified Flag", "label": "Rule 10b5-1 Arrangement Modified Flag", "terseLabel": "Rule 10b5-1 Arrangement Modified" } } }, "auth_ref": [] }, "vuzi_SalaryExpensePerWeek": { "xbrltype": "monetaryItemType", "nsuri": "http://vuzix.com/20240630", "localname": "SalaryExpensePerWeek", "crdr": "debit", "presentation": ["http://vuzix.com/role/DisclosureBasisOfPresentationGoingConcernDetails"], "lang": { "en-us": { "role": { "documentation": "Amount of salary expense incurred per week post payroll reduction program.", "label": "Salary Expense, Per Week", "terseLabel": "Current weekly gross cash salary costs" } } }, "auth_ref": [] }, "srt_ScenarioForecastMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2023", "localname": "ScenarioForecastMember", "presentation": ["http://vuzix.com/role/DisclosureBasisOfPresentationGoingConcernDetails"], "lang": { "en-us": { "role": { "label": "Forecast [Member]", "terseLabel": "Forecast" } } }, "auth_ref": ["r255", "r599"] }, "srt_ScenarioUnspecifiedDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2023", "localname": "ScenarioUnspecifiedDomain", "presentation": ["http://vuzix.com/role/DisclosureBasisOfPresentationGoingConcernDetails"], "lang": { "en-us": { "role": { "label": "Scenario, Unspecified [Domain]" } } }, "auth_ref": ["r154", "r255", "r576", "r599"] }, "us-gaap_ScheduleOfAccruedLiabilitiesTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "ScheduleOfAccruedLiabilitiesTableTextBlock", "presentation": ["http://vuzix.com/role/DisclosureAccruedExpensesTables"], "lang": { "en-us": { "role": { "label": "Schedule of Accrued Liabilities [Table Text Block]", "terseLabel": "Schedule of Accrued expenses", "documentation": "Tabular disclosure of the components of accrued liabilities." } } }, "auth_ref": [] }, "us-gaap_ScheduleOfDeferredCompensationArrangementWithIndividualShareBasedPaymentsTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "ScheduleOfDeferredCompensationArrangementWithIndividualShareBasedPaymentsTable", "presentation": ["http://vuzix.com/role/DisclosureLongTermIncentivePlanDetails", "http://vuzix.com/role/DisclosureLongTermIncentivePlanLtipDetails", "http://vuzix.com/role/DisclosureStockBasedCompensationAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Schedule of Deferred Compensation Arrangement with Individual, Share-based Payments [Table]", "documentation": "Schedule, table or text reflecting equity-based arrangements (such as stock or unit options and stock or unit awards) with individual employees, which are generally based on employment contracts between the entity and one or more selected officers or key employees, and which contain a promise by the employer to pay

certain equity-based awards at future dates, sometimes including a period after retirement, upon compliance with stipulated requirements. This type of arrangement is distinguished from broader based employee benefit plans as it is usually tailored to the employee. Disclosure also typically includes the amount of related compensation expense recognized during the reporting period, the number of shares or units issued during the period under such arrangements, and the carrying amount as of the balance sheet date of the related liability." } } }, "auth_ref": ["r6", "r43", "r44", "r89"] }, "vuzi_ScheduleOfEquityMarketAndOperationalMilestonesUnderLongTermIncentivePlanTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://vuzix.com/20240630", "localname": "ScheduleOfEquityMarketAndOperationalMilestonesUnderLongTermIncentivePlanTableTextBlock", "presentation": ["http://vuzix.com/role/DisclosureLongTermIncentivePlanTables"], "lang": { "en-us": { "role": { "documentation": "Tabular disclosure of equity market and operational milestone under the long term incentive plan.", "label": "Schedule Of Equity Market And Operational Milestones Under Long Term Incentive Plan [Table Text Block]", "terseLabel": "Schedule of equity market and operational milestone under the long term" } } }, "auth_ref": [] }, "srt_ScheduleOfEquityMethodInvestmentEquityMethodInvesteeNameAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/srt/2023", "localname": "ScheduleOfEquityMethodInvestmentEquityMethodInvesteeNameAxis", "presentation": ["http://vuzix.com/role/DisclosureOtherAssetsAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Investment, Name [Axis]" } } }, "auth_ref": ["r191", "r192", "r194"] }, "us-gaap_ScheduleOfFiniteLivedIntangibleAssetsTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "ScheduleOfFiniteLivedIntangibleAssetsTableTextBlock", "presentation": ["http://vuzix.com/role/DisclosureTechnologyLicensesNetTables"], "lang": { "en-us": { "role": { "label": "Schedule of Finite-Lived Intangible Assets [Table Text Block]", "verboseLabel": "Schedule of Finite-Lived Intangible Assets", "documentation": "Tabular disclosure of assets, excluding financial assets and goodwill, lacking physical substance with a finite life, by either major class or business segment." } } }, "auth_ref": ["r34", "r36"] }, "us-gaap_ScheduleOfInventoryCurrentTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "ScheduleOfInventoryCurrentTableTextBlock", "presentation": ["http://vuzix.com/role/DisclosureInventoriesNetTables"], "lang": { "en-us": { "role": { "label": "Schedule of Inventory, Current [Table Text Block]", "verboseLabel": "Schedule of Inventories", "documentation": "Tabular disclosure of the carrying amount as of the balance sheet date of merchandise, goods, commodities, or supplies held for future sale or to be used in manufacturing, servicing or production process." } } }, "auth_ref": ["r14", "r66", "r67", "r68"] }, "vuzi_ScheduleOfOtherAssetsNoncurrentTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://vuzix.com/20240630", "localname": "ScheduleOfOtherAssetsNoncurrentTableTextBlock", "presentation": ["http://vuzix.com/role/DisclosureOtherAssetsTables"], "lang": { "en-us": { "role": { "documentation": "The entire disclosure for other non current assets.", "label": "Schedule Of Other Assets Noncurrent [Table Text Block]", "terseLabel": "Schedule of Company's Other Assets" } } }, "auth_ref": [] }, "us-gaap_ScheduleOfProductWarrantyLiabilityTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "ScheduleOfProductWarrantyLiabilityTableTextBlock", "presentation": ["http://vuzix.com/role/DisclosureAccruedExpensesTables"], "lang": { "en-us": { "role": { "label": "Schedule of Product Warranty Liability [Table Text Block]", "terseLabel": "Schedule of changes in accrued warranty obligations", "documentation": "Tabular disclosure of the changes in the guarantor's aggregate product warranty liability, including the beginning balance of the aggregate product warranty liability, the aggregate reductions in that liability for payments made (in cash or in kind) under the warranty, the aggregate changes in the liability for accruals related to product warranties issued during the reporting period, the aggregate changes in the liability for accruals related to preexisting warranties (including adjustments related to changes in estimates), and the ending balance of the aggregate product warranty liability." } } }, "auth_ref": ["r211"] }, "us-gaap_ScheduleOfPropertyPlantAndEquipmentTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "ScheduleOfPropertyPlantAndEquipmentTable", "presentation": ["http://vuzix.com/role/DisclosureFixedAssetsScheduleOfFixedAssetsDetails"], "lang": { "en-us": { "role": { "label": "Property, Plant and Equipment [Table]", "documentation": "Disclosure of information about physical assets used in the normal conduct of business and not intended for resale. Includes, but is not limited to, balances by class of assets, depreciation and depletion expense and method used, including composite depreciation, and accumulated deprecation." } } }, "auth_ref": ["r5"] }, "us-gaap_ScheduleOfShareBasedCompensationSharesAuthorizedUnderStockOptionPlansByExercisePriceRangeTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "ScheduleOfShareBasedCompensationSharesAuthorizedUnderStockOptionPlansByExercisePriceRangeTable", "presentation": ["http://vuzix.com/role/DisclosureStockBasedCompensationSummaryOfStockOptionActivityDetails"], "lang": { "en-us": { "role": { "label": "Schedule of Share-based Compensation, Shares Authorized under Stock Option Plans, by Exercise Price Range [Table]", "documentation": "Details comprising a table providing supplementary information on outstanding and exercisable share awards as of the balance sheet date which stratifies outstanding options by ranges of exercise prices." } } }, "auth_ref": ["r44"] }, "us-gaap_ScheduleOfShareBasedCompensationStockOptionsActivityTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "ScheduleOfShareBasedCompensationStockOptionsActivityTableTextBlock", "presentation": ["http://vuzix.com/role/DisclosureStockBasedCompensationTables"], "lang": { "en-us": { "role": { "label": "Share-based Compensation, Stock Options, Activity [Table Text Block]", "verboseLabel": "Schedule of summary of stock option activity", "documentation": "Tabular disclosure for stock option plans. Includes, but is not limited to, outstanding awards at beginning and end of year, grants, exercises, forfeitures, and weighted-average grant date fair value." } } }, "auth_ref": ["r10", "r11", "r45"] }, "dei_Security12bTitle": { "xbrltype": "securityTitleItemType", "nsuri": "http://xbrl.sec.gov/dei/2023", "localname": "Security12bTitle", "presentation": ["http://vuzix.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Title of 12(b) Security", "documentation": "Title of a 12(b) registered security." } } }, "auth_ref": ["r498"] }, "dei_SecurityExchangeName": { "xbrltype": "edgarExchangeCodeItemType", "nsuri": "http://xbrl.sec.gov/dei/2023", "localname": "SecurityExchangeName", "presentation": ["http://vuzix.com/role/DocumentDocumentAndEntityInformation"], "lang": { "en-us": { "role": { "label": "Security Exchange Name", "documentation": "Name of the Exchange on which a security is registered." } } }, "auth_ref": ["r500"] }, "us-gaap_SellingAndMarketingExpense": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "SellingAndMarketingExpense", "crdr": "debit", "calculation": { "http://vuzix.com/role/StatementConsolidatedStatementsOfOperations": { "parentTag": "us-gaap_OperatingExpenses", "weight": 1.0, "order": 2.0 } }, "presentation": [

"http://vuzix.com/role/StatementConsolidatedStatementsOfOperations"], "lang": { "en-us": { "role": { "label": "Selling and Marketing Expense", "verboseLabel": "Selling and Marketing", "documentation": "The aggregate total amount of expenses directly related to the marketing or selling of products or services." } } }, "auth_ref": [] }, "us-gaap_SeriesAPreferredStockMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "SeriesAPreferredStockMember", "presentation": ["http://vuzix.com/role/DisclosureCapitalStockDetails"], "lang": { "en-us": { "role": { "label": "Series A Preferred Stock", "documentation": "Series A preferred stock." } } }, "auth_ref": ["r585", "r586", "r620"] }, "us-gaap_SeveranceCosts1": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "SeveranceCosts1", "crdr": "debit", "presentation": ["http://vuzix.com/role/DisclosureAccruedExpensesAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Severance Costs", "terseLabel": "Severance costs", "documentation": "Amount of expenses for special or contractual termination benefits provided to current employees involuntarily terminated under a benefit arrangement associated exit or disposal activities pursuant to an authorized plan. Excludes expenses related to one-time termination benefits, a discontinued operation or an asset retirement obligation." } } }, "auth_ref": ["r4"] }, "us-gaap_ShareBasedCompensation": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "ShareBasedCompensation", "crdr": "debit", "calculation": { "http://vuzix.com/role/StatementConsolidatedStatementsOfCashFlows": { "parentTag": "us-gaap_NetCashProvidedByUsedInOperatingActivities", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://vuzix.com/role/DisclosureLongTermIncentivePlanDetails", "http://vuzix.com/role/StatementConsolidatedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Share-based compensation", "terseLabel": "Stock-Based Compensation", "documentation": "Amount of noncash expense for share-based payment arrangement." } } }, "auth_ref": ["r3"] }, "vuzi_ShareBasedCompensationArrangementByShareBasedPaymentAwardAwardVestingShares": { "xbrltype": "sharesItemType", "nsuri": "http://vuzix.com/20240630", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardAwardVestingShares", "presentation": ["http://vuzix.com/role/DisclosureLongTermIncentivePlanDetails"], "lang": { "en-us": { "role": { "documentation": "Vesting of award under share-based payment arrangement.", "label": "Share-based Compensation Arrangement by Share-based Payment Award, Award Vesting Shares", "terseLabel": "Shares vesting" } } }, "auth_ref": [] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsGrants
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"Unvested options outstanding weighted average remaining life (years)", "documentation": "Weighted average remaining contractual term for equity-based awards excluding options, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days." } } }, "auth_ref": ["r90"] }, "vuzi_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairMarketValueOfSharesIssuedInPeriodW
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Excludes temporary equity and equity attributable to noncontrolling interest." } } }, "auth_ref": ["r60", "r63", "r64", "r81", "r408", "r424", "r446", "r447", "r484", "r497", "r595", "r605", "r651", "r667"] }, "us-gaap_StockholdersEquityAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "StockholdersEquityAbstract", "presentation": ["http://vuzix.com/role/StatementConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Stockholders' Equity Attributable to Parent [Abstract]", "verboseLabel": "Stockholders' Equity" } } }, "auth_ref": [] }, "us-gaap_StockholdersEquityNoteAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "StockholdersEquityNoteAbstract", "lang": { "en-us": { "role": { "label": "Capital Stock" } } }, "auth_ref": [] }, "us-gaap_StockholdersEquityNoteDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "StockholdersEquityNoteDisclosureTextBlock", "presentation": ["http://vuzix.com/role/DisclosureCapitalStock"], "lang": { "en-us": { "role": { "label": "Stockholders' Equity Note Disclosure [Text Block]", "verboseLabel": "Capital Stock", "documentation": "The entire disclosure for equity." } } }, "auth_ref": ["r87", "r135", "r226", "r228", "r230", "r231", "r232", "r233", "r234", "r235", "r236", "r237", "r238", "r239", "r241", "r317", "r448", "r449", "r460"] }, "us-gaap_SubsequentEventLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "SubsequentEventLineItems", "presentation": ["http://vuzix.com/role/DisclosureSubsequentEventsDetails"], "lang": { "en-us": { "role": { "label": "Subsequent Event [Line Items]", "documentation": "Detail information of subsequent event by type. 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Examples include: the sale of a capital stock issue, purchase of a business, settlement of litigation, catastrophic loss, significant foreign exchange rate changes, loans to insiders or affiliates, and transactions not in the ordinary course of business." } } }, "auth_ref": ["r342", "r344"] }, "us-gaap_SubstantialDoubtAboutGoingConcernTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "SubstantialDoubtAboutGoingConcernTextBlock", "presentation": ["http://vuzix.com/role/DisclosureBasisOfPresentation"], "lang": { "en-us": { "role": { "label": "Substantial Doubt about Going Concern [Text Block]", "terseLabel": "Going Concern", "documentation": "The entire disclosure when substantial doubt is raised about the ability to continue as a going concern. Includes, but is not limited to, principal conditions or events that raised substantial doubt about the ability to continue as a going concern, management's evaluation of the significance of those conditions or events in relation to the ability to meet its obligations, and management's plans that alleviated or are intended to mitigate the conditions or events that raise substantial doubt about the ability to continue as a going concern." } } }, "auth_ref": ["r58"] }, "us-gaap_SubstantialDoubtAboutGoingConcernWithinOneYear": { "xbrltype": "booleanItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "SubstantialDoubtAboutGoingConcernWithinOneYear", "presentation": ["http://vuzix.com/role/DisclosureBasisOfPresentationGoingConcernDetails"], "lang": { "en-us": { "role": { "label": "Substantial Doubt about Going Concern, within One Year [true false]", "documentation": "Indicates (true false) whether there was substantial doubt about ability to continue as going concern within one year after date financial statements are issued." } } }, "auth_ref": ["r8"] }, "us-gaap_SupplementalCashFlowInformationAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "SupplementalCashFlowInformationAbstract", "presentation": ["http://vuzix.com/role/StatementConsolidatedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Supplemental Cash Flow Information [Abstract]", "terseLabel": "Supplemental Disclosures" } } }, "auth_ref": [] }, "ecd_TabularListTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2023", "localname": "TabularListTableTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Tabular List [Table Text Block]", "terseLabel": "Tabular List, Table" } } }, "auth_ref": ["r547"] }, "us-gaap_TaxesPayableCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2023", "localname": "TaxesPayableCurrent", "crdr": "credit", "calculation": { "http://vuzix.com/role/StatementConsolidatedBalanceSheets": { "parentTag": "us-gaap_LiabilitiesCurrent", "weight": 1.0, "order": 6.0 } }, "presentation": ["http://vuzix.com/role/StatementConsolidatedBalanceSheets"], "lang": { "en-us": { "role": { "label": "Accrued Income Taxes, Current", "verboseLabel": "Income and Other Taxes Payable", "documentation": "Carrying value as of the balance sheet date of obligations incurred and payable for statutory income, sales, use, payroll, excise, real, property and other taxes. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer)." } } }, "auth_ref": ["r17"] }, "vuzi_ThreeCustomersMember": { "xbrltype": "domainItemType", "nsuri": "http://vuzix.com/20240630", "localname": "ThreeCustomersMember", "presentation": ["http://vuzix.com/role/DisclosureBasisOfPresentationDetails"], "lang": { "en-us": { "role": { "documentation": "Classified as three customers.", "label": "Three customers" } } }, "auth_ref": [] }, "vuzi_ThresholdAdditionalStockBasedCompensationExpenseThatCouldBeRecognized": { "xbrltype": "monetaryItemType", "nsuri": "http://vuzix.com/20240630", "localname": "ThresholdAdditionalStockBasedCompensationExpenseThatCouldBeRecognized", "crdr": "debit", "presentation": ["http://vuzix.com/role/DisclosureLongTermIncentivePlanDetails"], "lang": { "en-us": { "role": { "documentation": "The amount of threshold additional stock based compensation expense that could be recognized under the long term incentive plan.", "label": "Threshold Additional Stock Based Compensation Expense That Could Be Recognized", "terseLabel": "Additional stock based compensation expense" } } }, "auth_ref": [] }, "srt_TitleOfIndividualAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/srt/2023", "localname": "TitleOfIndividualAxis", "presentation": ["http://vuzix.com/role/DisclosureStockBasedCompensationAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Title of Individual [Axis]" } } }, "auth_ref": ["r601", "r653"] }, "srt_TitleOfIndividualWithRelationshipToEntityDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2023", "localname": "TitleOfIndividualWithRelationshipToEntityDomain", "presentation": ["http://vuzix.com/role/DisclosureStockBasedCompensationAdditionalInformationDetails"], "lang": { "en-us": { "role": { "label": "Relationship to Entity [Domain]" } } }, "auth_ref": [] }, "vuzi_ToolingAndManufacturingEquipmentMember": { "xbrltype": "domainItemType", "nsuri": "http://vuzix.com/20240630", "localname": "ToolingAndManufacturingEquipmentMember", "presentation": ["http://vuzix.com/role/DisclosureFixedAssetsScheduleOfFixedAssetsDetails"], "lang": { "en-us": { "role": { "label": "Tooling and Manufacturing Equipment" } } }, "auth_ref": [] }, "ecd_TotalShareholderRtnAmt": { "xbrltype": "monetaryItemType", "nsuri": "http://xbrl.sec.gov/ecd/2023", "localname": "TotalShareholderRtnAmt", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Total Shareholder Return Amount", "terseLabel": "Total Shareholder Return Amount" } } }, "auth_ref": ["r539"] },

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(B$O#]]N("L52*7D)!*5S@CU_511#]^_?W^D4B-2 M^.2NRNL@4[)<12JJ:2J$&0?8A;%T?$,KQ!,I&=:%^F8YR^2Y4->('
/DLG+6 M*BGDS0%=0GX'UI!M@ OC#(_!7^CIT"5KI;#'[TYE1_.A[$K7A*XOX0($OH#O MSP#X2L-3H%;A$"=EFXQY93
(H89'O]W>3%6_B(@]3G/<,RTADH]DLBS@9'!\ M.C@=QB#B8'U2II8GQP)&#C%#'8G4='-5,(Z3LFK.:27G]T4*"L0H/\&?
U.]"ZY@PTY7$$:86=#5 O56F@ %5LQ) M_'XQN9M.;L:7H]G5I7,^NAG=75PYTR]75[-I#T\E//%'-EE,-M&X5(-3108C M8*?
U@$UGXL?MU=ULZDRNGD.PQB*5<@DY0'Y^9&N2M7Z$>R/0 M'.8'N123_W9$ 1+AN R'+-($SD^ZG/_JXXV>H#=B3
Q>TC'U A].%JF/ MNMD*3HMM-A.L;XNP*BZ.9B,[<,A> II)"A%E/:0Y2$>N2P/H73UMQ-0-LG2_ MRR55@-
N<@0GF]T680TY.Q*K0>PL$/> 5@#^@Y8I/%E\9U%U#./TW",R1+VH! M6>CLX.4-!-68M^)A@'U8TKM5.0.R&
(B2HIXLYBI.JC!!%9?GZ)[['>)_860 M[F07"J 9U6C!BZB M!2B8.>DUP6[V>L]H")Y!3D2LMA.9;.9+.:U;^WGMY]I[:<+*T
7D(VQE-.W#]6Q/<@95=_!HAO;:=/-1R,$)\TFE!]&=U]OIHZ MXSN1,+GXGR^3F\NKA^G?G:O__3J>_;-'/&O&9]!=8>*3Y?
8&NZ@JH#H'# FK=Y^2M,+]K:$TS6V&10]' M<9-SF#2_WH=M --G(CP_,8JYD#: K"R7&;X3._@&CF+OA/Q[."NG)/
1XD#\ M<,E2ERQ#6P1S"ES.OB&^TA$IX7K(&3_ V^F,<."'^NC]]?
$-0K7.T2E_LX<+JOET)#%?.NL9S1LU0+"U>.RGUZ<7U20?:75JM,(75K,:^H6F&M>A7;@8J-/$\1 '^,%X2NZ]S8
M7;$U&ZG"Y*2%)B55<%)UZ)6FT2)!A2;4TIK@?5=T;ZJ7"7JT&J#5I#,W9V#& MM3
5.+:=\\V.R48ETNC8SP21@XQCMP*;&MI33#^7+X70O-S$'9BCCU856!- M^ K2VBT.)10F8'XI J.X]%L6[-
%H8B%MLYEQ*]C%#&Z]+7SF'I0FH#;):MYW M4@"V9-])#VXS<"_ !G'@JQAB!8AE)*;=(B4+Z2$;1_'I :D^=2":1YW(DY-S
MH=:JTM-@O09T.UFHY,E&30==CAX1WU; UIZ1"=R2%5/%+3Q(F"Y.)ND2Y1J\ MAEX7ZD2E]JK03!6:V-\6',S@%\QP#?
B].=Y!0+H"W%I:$XRGQ3Y<'9+NT6J MU@U'FR:(I>G-J!4Z7R5J(FDVON_!:[?;LM%*;7M.)L#?EBSS6VVY[UOP[$V
MF#/X9R"DO)('3:H6$JK(3#B6K,(FK!S-JPFCSCB>3^P:F*T!ATEAR
ML(C2EJ5]))5B!*!DWIQD[YN\2:2K633+#$V[6T)ZS.KC4:9 E!D7FQ!4CX(Q MI'%/?.26=)LZTOKHX(G]N>6?
(I9]B+!]L*/\?H?F#.I1/=W)P:K^-@B;5?AR M1$MI3*"]*8)6N)NR!\6X,E^.2)' !,?;(AS9BR-[*$P+D.50% E,4/Q2A")[
M(*:'PF91LAR.CS?F+>[]%MGGSO Q?=2AM^_ 4H!YMO) MW _7YVSOJK9G9(+=9J <.&&!*K(=ID9E.JE"_UTT0?
XGW]IZ@ M'O11V)A^= M^GC T'KCR[>.U+>5>@1**L<@>G7H7T+4PZ>U'Y%(]C5O>BEURK=.6'#$ E"W
MP*7PDIE@0C:02@M\%%7^P#G:E52B/9M*E86@@S+Y8-Y4)I$%^AT51W25IN+D M>M?.A?IPE'N2*OR0>;A*/5LEI".4.
[CP2EW%HUGZ+<4;XBHVFII5D:OWL^0O MAZ*HL'(-2DW>";,J-2*7OS0KM>XQP;*B2[/(O^)'V0;RTV!X,C@=-I.]\)ZC
M9?E1!EGPV]:"YQ^NLRGSKDC5TX.U M"ECZO.<1]#F+V333QXKW0I]1"?
FE91V25T/MRH_H==GRI<7V%B#S_EX+VR/R MEI8>/K>I7$%IS/]U3^$&(.\6X&
!7!Y0A)>_0NP1>@^V:QT+DW7]>&!%B7Q?
MSL4^'G#AT!TX>B11#YB>K0D6CAS=CCE<2_='B!7,&4<\D$)]IB381*1(D(@Q M0?TN3#TBWDPQTD:&1TES?
>O^QP,/SAOU/7_.H)4AMV]-V17B>_S,0VOY=BC!8]40C>32[Q1&DL5O MFYYYZOMK2!?5P !OE53)SH+47"6L["L
5E]\2YG"FW(G= KI(W*A5(!74L#J MHI^M?WG6KZIZ586W1&BZ!I1_]@&3%^=@;_P- OHK\B#Y H&W60G;Q=0-HK=P
M/8?TE61L6JF6LE_A)<(02N4+&_-UQ:PIOZ5$8>3W'E*UHB0&B61%(;D!MBA> M>!%KF7P+X+.V MI6YP6D3<6^;R%?
$>^5S$Z+.CW;'C4J\U6-5:N:M1UK")(G M3V:BS5ZU%Y>4VU*"R2.DDLT8;P*NV^15):DIOZV%E8_!>_&B*GIM UM9?
$MY M0D:OY<-DBWNVG8C8O:H)R!?:UD^189/B'5.2]U+1G6\3DG!B-OH.J*=]<_8- MRH
:]$9"Q\68$SGP]U2ZAJ_G9;^.&*_=QOH]L+&8I=) OQLFMVS,5@"'U9X$ M7,Y@/=&@=1*4.B:JR%U[)AT0M3%
(5J.J>JYD)L1@HHVDFZ4+,SL*51E_S,J& M2Z%7OK01M\)H32A'?RD$14W41#P,L\7!O.2,GFZ AGE>5O9$36V7=6+9T\\6
MJ(UR](5 M0:?2/@A;$D[EH^BO/-83"59/4J.7405>6H;(M:J1H9ZD S),X#JLVP@+'_$1 M+@/DPD?P14#EPZ_A
M)M*\$$:JKH@3M796L0I?.ZE%4W<%O<"'DT5J/Z]H=%GZ^VH@+HK$,_Q0B!R'SL6+(XK/\9BVB7J>0GUSS&^A
LH>K>G+\6(MY+&@Z^S,Z5),@7VRT4^>,ZZOE])BE2?MC5&[#B@615,H[R4M'ZWJ23II%*)C M<=L'R"!]A->$3N9,[K
1GI.;4DD3662RD_)+ MCL(]=[,5X!V\S[)?K5^7AV M*=!<(GP.%X1"N0L#L-7%2LK#VC6)+=-N-)6%?0S78$:/ /GI1?-
V6;NY\%;= ML6L7XFJS_=@-WTTBWN4/'=O8B58YN[MLG>[C.S,6>VD@M!AW@?2*V&21>WI2 M-
5998AI+A#E<0FI=P;S =16VT.ZBD+93AO3VR80 M7EY#R.29-J1>38RW9.?V7E03OK#
U1IJ[>R$5C5Z"W(*2FQF26(';8G>)"NG M'NKHJ'QH+CIS> XQ7* T<#;$G=%6(WKZA&4XAK.QC 1#)ERQ/+V/& M
EFB6JROBU*N*9D+88@:\Z^'T?S'WDRA XP-N"%UU'U$$_6J&B[>ZE.D&@O3@]2*E=K\DT7Y)& MAVO+?,0=\.J:Y:\02:U;
[:9U&K#JC+DP>5'%0RI?N7Q%:3M>;RAY5*0/J]"R^A3H]5N^:\-VV:*)&,\.@(4+@] 2^3:\E2 M'IT5_=[(GXX^-
VV+%GD[.0E.RZ&WH0!_*AI0GFR7 :6\8V=%WDE))1 NAY[$ M: H>!327 9P1T?
U%#_;CZH=AI\RMKLTR[HW^/P@7?;)0$W%Y-:-^6T = V03 MFCY7IN3-
P5QLI]VPZZ;NB!+7\NT9=6MEZC)'Y;S,R#FS]\.4PMSM\1#"P2]:Q\LTR;.2)J6>DZ$:PA^\/K^'<'47D K
MZL[)6+/4*%15GOWUQEC>U /$E%(0I&Y>"MTSNW5+:V:=T7U[N_Z-(CE\+\JM
M>I+:&=%,W3IU<]%8>*QXB43!VBZ7R&I%W971VCBQH?)^-#GG!_[(]\/WS"8+
MHI=U'2KY6U8O#RSEOSO6=WD)\3HAVOR:(&Y_%Z ^32 M;-H<-
L_;%1TQ]/R7NY#^LWI^88SUZI[R?]6G2^$.7XM&RN^.^^$UZ8Q%>RG(MI*Q)0%K.S.((K-1DW3S?
5LA=C:/-7IYZFR6U&W\7@.VF'IU;(?\!S8'Y5IT] M[P(TN;K\OX'GM[MJB- G 1([P?_VU_(/88-FR,;'PO$P&
M4$OZ^FM)+:DE_?K;:F$JKXC:F%B?3MJGK1,%63HQL/7RZ<1U9HWNR6^?__;+ MKW]O-/Z\GHP4@^CN
EF.HE.D.4KH"PBW MU&:8\,1/>;6R<2SUFQJF;3?_O!]-]3E:: ULV8YFZ>]2+)LDN7:OUVMZOT)2
M&U_9GOR(Z)KCZ3RS7@HW!?O4"),UV%>-]EE#;9^N;".LUTZU,L##KS@E_0;V MYU\4Q5M7#-=$XUGD2[_8 M;%
(*Y%@RDKZN4Q<9P]4263:RHVK<^BD_I@)YEXQN@E_FSGCVU4:^%ON6,<+: M,S:Q \81-%?
K982T0@"+92\!QH%FZF<'!AJ4$4&KPS>NZ760(_@<(&1%[3-, M1'6'5@ZR#&1LOL4.R[S7NV!N0*NE-)1-EO#_P?
AA.A[=W?2?AC?*=7_4?Q@, ME>GOP^'3U!LHPXJ;1(\58S(O@- X1PR!#1"\@7>FV<_>Z.O:C1=-6S)_1VTB
MT['#;QB=JD=E\,5W7[5AIJ;VC$ROJ._;"9I5U6W@4@J:VZIB8IKOEVKWHG=V
MT>MUSSN7EUWULKU5\8@U]&D<@T;UL SX;\Q =EV;($73=A<++[<&!H)#^1DE MBV0M!@62/ (-1 %?
M$<6VH$UFR\C087]X0:R'>+Q6PPX9N:)+LS!_+G[5 M3-;+]IV!1ND:VN4?FNDB#FM"LG*Q*<[7+L?%X4K*/8RDQ
4($Z0C@/-L(N8- MI3?4%)$X]$Y7[9P?*=.Y408$GY5+\.[0S;[Y'CA $P2NJHOL.VNXTI$-GM$U MS,3!#K?'
3&AXV=O#YP!?ZID#32Z1HJ6& MC7O-:[KB4=?;@+!+ZJ*V]*7!2B\N6.GZ^]@$:4'CQ(11^==B$8WVW6%+R
MZOGP,'=R+2.).%[:FM"5"UY TJ5D'6-@.J,A,0T#R^'G>%VS M>D*9[4QE?]]E:(^)P MF2H3!]_MJA==Z 2V]JVF,B-
#\025U?-N([ZRF"JGL[*-^P,R07R2[C8,R&)!+]#ZJ;25K(XQ!Y, M=5L2S,8%J4C81!*!)RF#3Q3F*2Y=>
[7W@:0QR4M>,T9SPQD#'4J,4VO_JZ[BX8 0:7!S]/)(J/Y)J:M&;/B&"7U?8-(,.&!E9L^#KK=53O;
MZ_5'16P^G!\::.7OLD!OD".[_&,B,U;.]E*4TG M35C\+1@H4 4FYH*5O9-SC6:$'71EZ;Q.9KARJ :&A2V-KN^ !V__&R2!=JC:
MRYWE((IL?ISYP4J,-X&SKMJ5X810HB'$(WP^5B.2SI$! 0D[.1]J$&[*:SR\ M]'*:P4>SO&MG^10FJ96P QVVY[#Z$#)
[F^3DI(<:]#,&="YM<'?#Q(E80?<4ZVAS\N4%+BG3L*0S^;R*/ M!\OH+PAU\%_>]ZD\[Y.QG,:1337//$K7A=2]P!9:>TI,
(XIT#RO*RJOFAE,(MOJ2.V,:+":>>6:YYF$Y.CHL[96(91U%)LA&H"=VV]0-&+A)O"/>Z>NJJ3)Q
M].==]5*5B=Y4DI)\N;Q0)>W:I\B;+ *.>XW^0!%5<$CF"]2+X9PX)>V-OR +
MX)ML/#$6V,*VPY3QFK%!DB%5+Z*+@)5T82R_-R;L=!P[RWF!?FC0V=UBJ6'* M1I"QM7UK0W##BK-^WZ))W/#
(ET4]R"T-N:1A:N$J_=B::NQ&[=C5.YM[=WB= MN)!P/0RA!,R9X6T-">[+B-CZ;-O6_:M"3'95"&]+6TPZKIX+4(\,EX\5-8E]
M0 O?KE!!$%SDP8.H_E-CX,[SQ, -^M/?E=O1^%L5,7 ,W=8MQS#E#?G0EJ@B= M0@ZK-_23KQBLYGK]U6;G+3:-

K:^#*YQVB%,\@V@+Z[9;7?"!).A6JC&T6'#5 M?AJ4=%W!WVQ)V9I_3R"G8>Q)RR[/&8 EY7$ZURCR7M!B#Z#
P)LVFTQ.'(?; M[JK=*F_ .1B_.<"++!;]=*YFC4UC'VU(NM3TP5/3&AO''LK(7*0JMGDDY2I5 M#2V@-)5(NGSE:8B]\7E+Z
UQGYV9:X8W,O"]0JY(S:VAL H.Q[+B=4Y_NB1V(-0>?.(Z^"LJW8NZF0.Y>DDL(N>;$%% MNX8>>>Q6N)^(R-
3<(HKK(%Q-:DG0-=Q92>\RL7=A^"]7YRMBM N#ODNDG!/%+_A4JQO MB:FTI9&@D-YY +KYP.(B5(W3N>
M\%_7WP1*G#(+"]?<#DI01F@"_(75BBXZ2];1+;8T2]\C6B\A SF-1-IH/5$-
M2GI,#.#H"!G>Y3/>&Q=CKV+V<(6HCFUNF$^FG)QFM">)B7NV!?0@$O)7]7+) M8["8>$OH!"U="FW$1N-9Y
TQGFED"L9U@@K)')XJ MZH%V8&V'S8G:Q[;-M4X&V#)?-B]_&/.-]C636*[;!#:1#0QY9#%DEC^2>?(+S?LB=3- MD\
9)YY[YZWS5EMI*.^%P(=(;O]6H"1V"'I3F$)FT03*/_T"_U7!">A-R##4 M<BH)CH]D4K@C4 ,:Q3")^[.'=&9N\0H9_GQI
MJH/IN>Q@9^1+WZT0O;H%')F+74?&RT[Q\V.WN@3E,!IZVV.^W6>:_5J6R[++F.WCWC>8%Y0G(UT,)D)&Z-Y84MJ3/4
MUW5WP1A AL@%WWF7K\O*OK:6=% %B2]O'G+<""*5PBO.HK/@K9]RCR"]W1$D MR%
()\]R9"N\DJ'(L$7U,.^I:]EBW#,$:H7QWE 2CJM#K9$OFF4PM"R]H!I MYL#4 -8,(R.=;$'IFK"^#UI)I^7^.3C!T4A,J"9D%P
I?,_V(=VN"2MJ//MJ MO]^[$ZE^_ 'UW)Y7.V'N[A78(+,&%!G.TS7+4"*E0JI-P8I?7N#O$80
M[1Q*UL"E+1['YB>Q+51K$;.64;DP90WIG0 MP'2048FM'T -E+/C&9[RBG^OYIP@IV(\7S,Y==SPNV#X,H2QY=%\@L>9
VJ^ M$:,:HE.U\=4RH+FRNQ;8.B#;C.XOV*FDM,C R-# V,S!?
M9&5F+GAM;.U]:W/;.);H]ZVZ_T$W^V'W5JWC.)E^)#4]6_(C&=6U+5]+Z>Q\ MZJ))2,*$(C0@*5O]ZR] 4B(I B# !P
ZJIKJB<6#@_/$X^#@X*___;+V1UN M0XB"W]Y^__:]_^^O_/CO[G\O'VY&'W'@- M@FCD8N!$P!L]PV@UFJ/-
Q@E&=P!CZ/NC2PR])1B-+MZ]_>7MN[<7H[.SOR4H M+IV0-$'!*,'U_NW%_L-5A@T%GT:_GE_\Y?S]N_=_&?
WRZ>+CIY_>C1[N]G!W MA+(%K /T8?#]$_W/$^EO1#@,PM_>K*)H\^G_/GY^>W+$_;?(KPDC=]].-\# MODDA/[V$L
3]_&$/>W'^/W>W,W<%ULX9#,+("=R\%47#:G?Q\>/'\^3K 91T M[T4'V"(U/YVG'PEH"#^%25>WR'6B1#VU+
(RX$/2OLSW8&?WI[.+]V8>+MR^A MMZ>KPD&-G,A7*(_2.AO_S8:I3K!R >/8#%*Q/$IVFW ;V]"N-[X%&GRVPJ#
MQ6]OMO&?\(QJ]MW/']Y1$O]]%A'[H(9WA8(0^="CYG+X,9PNKE9.L 3A))A% MR/V^0KY'C/KF7S&,=F]&M-
^OCY,#L13_RUL7K<_IE_-VR,^U\#?=)R80=B> MG2*N3JB_AJ'KHS#&8 [<58!\M-S=0A<$(0CO031WGGQ03[
MQX%'^HRPXT;A-S*M7,5AA-;$TZ[0FDPON]D<18Z?M;O?%/I@N"C^J1JM &YJ^JS&_='7D9U(M8^R8DRMG
\G2(=E!J%/-;-TQA0GR9(M.IRKB0HD\9O%Z[>#==)%\GFZ2L=R- MX)9L?M3Y:-&'%FX[,K(FR#OF[Q8%RSG ZTE
UQAP"QY\IP$G8C0Z:+Z-X*8C MNDNHNK:G^"D$_XI)9S=;NLUN8#0\# 5*'>SNB'^,#/MKA6?8'$<[%KV<7%V?O
MD\C2OQ_WQ9"Y@D\Y@>=@CRXDD[7C^ 6&UVCMP"!;/H$)NS& M3^#L((8.R65B+Q!-# 2F&]U;\F?6!Z6KK=L6.0
4S@/>X5<8T0[RYJ-"^U$Z MG(WN$@F'BM1V,0P+B?[X\>.[=Z.S48Z9_+%'/B+81RGZ$<6_Y^70 V5ESXR/
MW%*'/CTP05@P"(? ?;M$VW,/P'3\)?_(1UWRQQ^W8.GX-V3A$.UH_WM,"#^N#CBCP-SWC?E:7?7I:&E0';Q,Y/F8X
2P;G=C'&9=.*%>V0+C-9U M,D+LSN*0H$*;=)&\!\X]->>^+)G_Z2 MZS+[X8_#P4UZWD3W$RB@RT.&74JUJ6A=NI4!
[H](89JU$);++1>ZJ<&K"A]) MT*+-'R2)IQY22W0;=ZFNV>DO?]R\D,D7AJ <(:@Z@!BX8@OUX/URP#3G.G %
M+MH;M;1 D1P=V@RZCG!JR3($=S_VAS@JC'SDKWS4(W_\,:>L3!>3P(-;Z,6. MSS!S+ES%-
H20ICBBQS^/P$]3$%9P,T>"14L##')2J,?1U&EDU(,:4Z7-A01L M4.]I2+YVA[J*US$E: MN%@O@1@\ 0^1-
%V,/\:81V69,0Y-M: G[7*>3:]A(M!-VXF**&D"IM6AU-CIF]W\DSH=W=LFR8*9X!O(4NX+@7"XQI2SQ O>R$X\#+ M"
BY'L.%%3'&AF[C%S6B11+=:S5]-KU[4Q?2:71G_IDR 6Z)$WJ3('*")8W MI2?+66;8E>^$HGVZ @;N/E81AUURRNF[=]9
N+M7Q-)$7CP\;2,"S=2,6M&L M/7*@Q&0QCM" .;-N[T#\N^/3],^$REHGY\'S3534PB3'F5: 0\/UWC1X!&Z,
M,0R620[QUP]A62(IGG:DV 31S3[+W"A#Y/M0)$9L:?WU%V]O'OHL/78(6$] M2 \K^H<4/N^E :1'GK4OG],A[Y
;RUX\5X&8*TPVF"9&Z(@]791(X"ZFJDM?=5)[5TIW.*8W M_QAQ9HD',7K3:78&LO;D=D6-T>99<6Z+W#"C!CS#\?KF[!
(&[6COX MNV"55M>,NWB0:6B%&/9$"==>=K2+H5)K5%?F 0N6H,#_?N29)O$+3@VDI-&WOX M%CJ'L(TJ[]VYC)Q"D
)%VOU'R$+1@VI)UWX$%Y;-F0BZS8%*G7"11/]:CUHX!.^/782$&ITOQJZ+ MXB *[U$$PEOD!#1]
[S,,R/8(!DNR+0(P.8%6WC3Q15M!?#&P5%= +G+ M+KBC=&%!%@2Y*29DVX40FT9(K.,FV;2>UGHP *3.B?
2[LEO/BY"G)L?$ M!O2@@W>TE)[$WHP'+]S4M78[6-^3+0*II%Q&..MT@
M5:*,!#LX7)3"'5+4&_6MY/H6\!Z2$2*GC@PDQ2\"9Y-'P+4\-12&A21TORJ@ M%-/=N5ESI(A$?6HW[#*11=.M$M?
#B>\W!Q-O8E83J7QGGTP>0W1.&O]TM0PA)J^C M,U&./!"W-
[TGF67R#H>45;+,IHNE$>Z,JBE^A,M5)$H6X\'7'3NP6]C"L:D*C=H>48ZKHF_+,F U_/SO8JXM? M%V'X
>AC*!.AIY63O!)S5,R:#H_+]$FARUT.\^#LZ&\)X3GU@2>U5>BC*WYX MJZ?.6@>U.9:!^B==?QB[S&LI5-83CT9'AFN
X38IW#()P@@G;^G11'3!0"%J MPK7MND9&6=^_ U,[/8N:2+#.;M36/27U@>0ITNYU8A:*3EA'NF%G6@",N>,#
MK4665R:K#!7A97:^Q40C\L=>>Q78=>_]&BOPFE!:'-IS3@Z/1O')EZ@*VT4' M7,UTVT7[\4F7?58JV'8E @,#8L\RJQ;.
[4I61D?@WT$8P6 I&"T+$%S_.8(Q MQX=P("G!U/'2G3NS!8@$/6KWGA*)14NOD&9V5^[],TX?5@L_(WP/GK,<&D+A M
T8!^:>;>J)HUZZ"@[^K5\5B0%KIV+,O*,FLAR$"Y?+. VZ]:VZH&51/FOY= ML1HO19?C\:"_Z OQ_2Q[E5?ZI0S!S
5FP.BGGYO77(&IXZ&;/&:^X)"@1[U% M8HY)/)2*89%F^&Y+1GNK4IZ*6 3W0)3QV"#3 UE5U?Y3V;JQZUIMW
M'1Q%9LOW2,Y&@P$ M&JI$E^.M?&*-NL$7F@P!DCMUL6@>K,!Q;8,):9HSH?DS(.6XZ\[H1>)%M;UK M-
W<&N45KYY!I-CL7HPW T8X>'$;CP*/1N@UUQMJ29A(M^4\"O1,"#97,G@NZD$H% R$B"!C/5"*I$'RH2B(BUH(+-
MW'D9Q]$*8?:[SF)@0=R)!VX%HQ+5:JK@"LQV7:-&(/=*>1HV'88JTU0)KQ:E M81-L]A#?
\>,T5<'WT3.M8$AK"3P"^E@&"&LV/7*-^0J2S!AUT^Q=&SJ_)L_7U#@F#YQK=:(&EK K=#E^ M
R66NW,O"0T@65JTNQ&?^*+CB(FVY9FVPS__#@$F,EGM;L$6L#9 :HVY=B7? MW*1@"LH+JV0*?
4T)1[V89+%T^)B:G%I9+ZO)$FORN30A=\RWTV2YLL6G;Z'S M!'VRB%9X?K':1L:#V:U,W7W?HP"L-S[: ;!_][U0]^MR-
XLW M&Y^L3T15'ULAE;@WWA3M 2\)UGRNGX3I)T)N(JV=4W*KBR'>6>_*5?ZBUJV M% /[.G]3]K4?FQ8+WW(*]O'
F,>)/$!M-QHV,=G,$16,EQBD#U$<422XZ2#9 MEG,#0J%UFW/5&E6@!N1H/6)ETY_?
G5"@V^ATGMU"RF^W"F9I)FS=];$JM(D+ MA87;N^EXYN2_%(N4"F_/*6+A7RI4Q]-VFJQ3'6I%G?;ICL-.<19KP(;V:6OZ
M' M4\81>?NY@D&6_K0S M=P6\F!8\3TL>I&\@3H(M2"^W5G\%0+#.:H..G=[5JF,?+(X#J)N %3%/5-
M6J6[=:,Y)$NKWK2X5LSM_;6>*0/;GR!$/O1H_?3D/1 (6 VWD=]0TGF>4W;YY$*M(%4J3&035HEOYQ)*D/VD>/\]?Q(FK?
DS^0# MX_>,Q!*'M)#\RUL7K<\3OO+'3 ON>_@QG"ZN5G1?%$Z"Y+6;%?*]0ZG>-R4U M@I<(!![PC@3S\>-/[]^]
(_\;G8T.>,F_KZ;WL^GMY'H\O[D>S>;D_^YN[N>S MT?3SZ.KOX_LO-[/1Y)Y\F%[]W[]/;Z]O'F?_,;KY?U\G\W^\,?
B(\)P>7_+" MZ$=)A\[3A5$2XVAH*864DT;=2>6]JD5:8G=^ F<';RK:._,B#Y3$:7XO)B= MHU' 6*G$
UT250\KL#WJI##.99U)*D1D<=42@Q66S.N%D+1&Z2@GG#89<'WJ M(Y'/V3KK2:P,H6F5WG2H\F!>
6//@VGW#PXDNZ66A'P8EXQ^;/EQ' FY)^UZZ\"8(^J<'Q?>DZOD,Y<:&5+L>/]%2' MBSZY*
(C(SN#&3T!_>Q.F5TOS[SX*@??;FPC'II;,O&U-14]50%OF%UF-53G8
M8)A<8DR,P0*OH>DEX32.PL@)/#+4BE*6RG"V3"J2NJ@R8)LJJ+4D3_-XUS%- MXWT A$ OR?
=E/^KQ!:.0/\HUQ&;+K*3@8DW8'(;R4ZOM3/L2Z+2K_Z<>U"_! MYS#TG]HQ_98^X17>O
#LPC"/^JFX/1N/=HW_W)O#LQD*31CG!J5^ZO393;$;,F]9P: M8,>*5D&J7=,?N]:T"K=:5%T*;J34927(4JMD:;*^C?
Y(];O&FJKGQK*95$"P M3#3NN(5^7;6*!PEYL4Q3]R!*ZSC=\O<53#<)QN@ MG/SZ-
((/*FD$TX>;Q_%\0@!^M(R!FK2Y!XR\V(VF.+NOQU6 M==Z.Z2$82#A#OE=DIX5-U..R9=YK9P;U?
%JI^8Q=F9':GA%:45,'^BW30))$ M0+8F"\B;*4L0MN342$N_1+UELL\"F<'RYH4F==0NUP7PMNA%;MTB8,0R%=$2
M\$00*S*07M,"NBAY&BLCF[NJ%[:Q9<51:WWE-;^0)\NT-@,^0;ZTZ#F4,+EI0>?SR_,AS.JGF> M)'-
:,G@FZXT#,>UP&AR_D9X]T1GM\B(K(0>912V),]*::T9BY8Y8X'^Q3'] MGZGX@4^&?
EX"D'1K6Q)EE=Q1FCO+=%IA4G8K9T_.JY*>&'S8JI':M"TFI"WY MJH8L4UT^IZ;T3F@%8O(+;Z;B
M@ML2"I&V17;MJ&.V]*P1DT[).F<:K0">.R\@W \-EV0768WG2K>R)>"AI!5I M[BSSI<\([@,KF*,0>#N"A6$]SN22[@,
(09CGLI8; E*M+(XY0XM4S/7(95 MISE[HB2-="C@RS*-Y6NGSX3M*Q00DF-"=9Y^GEK;X5EG.M@0OHG08.#@73+A

M$W9ILA@1KI\P7#-1]MBC+?M[N451KZ*PS-"&<*6DU>57U1LEFE.+L\I,#P#O M[]E#EZ,&#JPM6W@ON8BF"ZJ)2F$?
F2(HZ!W#]MR-TP])N9HVRI)64L [NWJLR?]KN4US"D M=Q%BLB<"[BI /EKN;J&;[(C)K)Q<3FQ'*?;6F,Q8)KG2WL65+?;-
;["JWN!S+F/4,FA"V![(8V> B@'O-EWJM. M-PZ'<>,P?P1)8(,)BW/"QR4AXCM/D4TPV7)F(:GS)BP:7#S234I(7?
Q[N)X[9B@':'%J(AX])\9ZA]NY5A3!B(=P.,P0FN >>]P ML8"&LN[CT6^FZ@:=):>+CWP-?ZZQI /9=\9=:#"#3
MJRTI\SBLJ1@,Z"D#]XP."N>+EP5E>C)5DR^+ ST")E^!C(B9<*9/XA6%S.1!
MBY@_HQA+2)D)9OJH7$W(3!;,;\&N4$!VA5%Z[OH(P^^7NTL0N*NU@[\+8E/U MS0PM3.J6[MR 5#U'-BIK3Z$P[%3?
S(*%C*I!BG5WS*!YW677F?<9#S2%YAN, M5L(UDF);TTLG53-EU)VI8]&\'L>NB^(@"A^!"^"6CB;BE\BXX*878FVTQ>?*
M:!7%096NK"L.="I=J743/?C2E4.KHMBVC*6E512'4$&T;0%+ZRJ(,A:-\YWP
M27=A"T,S0EW9%96]2\Z,A=JAQ*GM6(HM+)@P%.Q.J*/H@<,R5YVEUX1="'YIW T:X#']/@F M9Y3%H:T!D^8U?
$H6TI(LQ#FH2?.?P^GB<(;!.J=A09G>W<@I@4N^9DK]%-@O0E.MY@UVT?IL]4%4?,;IFWS'S8LW3ZWSOG!:[C-
;US>?.R27+N MQFL:DE=:UM3B&E:QE89,6J;V-$&4=YR4?1S6A>\]U9IJI^Q+MX3?2&=@NEBP
MEBI,L&%;3;U<:\1<$@V4R8^,F*<7OY5**ST9)/Z.LHU.*,3=N$=-Q<>-@ MLM5SUKPS4C;8D-
*,V1R8"18]@LWQ0\''Y'%C1PIMK0DE\4ULKQT%KOJ:(?*7 MG!U!SB$+RH90C[))':8,%D?FUSLT"C]=%!;M@E,
[#NS0<@TY;)C718$D>A)\ M3PC)?RF4Y&*[36,L%@Q?4M986M.J,MG[:'88#B3&M JLZ9&MI056Q[@*AV86 M
(?!8.8"P@I$G&47!VY(N6D<%@S)/:/A:Q!N@ L7$'C$9FLXS57GD??;1@+& 9PN-M^F3V;K M1%JFUOSNZ)2!,
(QR)4.HN=JJQ(C=-5<)=5=.N'K : L]X%WNOH;TE/7P;L68 M;."V28827S?2"
(:5OJ#"F65:?:2G*@'P]E5,QZX;KV.?)IQ=)\EBO*-GF8;# M2CN0X<@R[7$,+SU$;.&33 3#RAI0X4S+
7:6J!*2C63Q&9)*D4_&,VB3X XF M@O)R:%8-0RF ?@' M<'@A?%4DPTB<:,J=%K>_!BX&3@@F
1V.QD$0.W[=BW,J#8=1QUZ%(SVC\2'! M=+IHK*(&2(91V[XI=]I5-\W0SQS?P;M'0.^OTF.D.FWQVPVD9KT"1UJ40FW
M)2ME:AXS9TNLXCH&6V%FSU*.*82"%YQOQID5ECPY-+Z39 MT@Z9':>+683<[TD>=3C%R1^I384)K4=V)5!D-
WCUJ[?Y!9-N.-;CIV3SLZ9; MVCF*'/*K=GW."W2R9WK)V MV;,>6;$?*HU0^1;'^VIA^ S[J$#6R
F\T8&PT3.A;'0@C33)J/N/#H"WW/!M LX,DW,N/]#CV _@X<;[-"Q,O):"MZQ$<5 M@^GT(@G+RE?
%BKSUMD4,EF2\!1@&RWW-.+Y"!,"FDR]49"]@PX*CGU."DO$2 M*5DU^.*JB>4. F#3[J!<,
(7)A66GHMFJD^<0^>=A)13E=]KGW$/HF2*&H?Y M7JK!YJ)R1;S5YB(T2BD5(T<\K_1YD#9#[RCR 1*M+1
>)U$K9]\N$SK[^1" MO@/1"GF\K48#)(/:@S3@K[>S&A52^#N71FALV=8TMMEF"NU[,_2 8)*@1$3
M7UXS@*S8TK2PQWSW6>6MMU?+M@#3?B;!)HY2H@2OE_&!3:_A.I.]@$=K%G6/ M@)).=F1,3O='ZH0+
C)=S,BOX2*]14S&=1Q=D[%=4'.@ZTZ&5JR@:_[-F\UI MFSR,>SQ2EI?O']KX;Q&+Z;&[T0Y0GCT[-^;-AY>T>B.O^&EWZ
<9&.B ;STI M9H*E"M?#E5H.XXJ1$DNO(>2S<&(_4HG\Z S[9.2=PC^G\,\I_',*_YS"/Z?P
MSRG\8T_XY[2//^WC;5KQG_;QIWW\:1]_VL>_SGW\V/-@2M4D2/BA?S3(V?C0 MP>8]IV54(.9'V*?_,,^C-RK]?
WH>O8]=M0W/HW-ODZ=#S;>D2C0MTB/(0.;" MFMXJ2S_ 7<-';]MBL,[((]1]
<[9@&4,/U&3@2S0RO4)7D[L$0Y:MR4\;9)/Y MX(2XP'.PEQE-YJZ[.<#,:@A"<-.>HG)G6\2'90XBM;MJLR-]E=M-
"_:2R3W5 MPG,0#Y@,W*K;2@Z25[+#Y'"G175CUR5CJ;>_G3);E[(O!I.%Y?0]VG)3):J M)!H-H[*D+#=#' Q_R
A>J\C49X#\V1YLP$XVCWX9'63U0K=U,9_I)L;\'\N M29>[.>E6D"(MU=*R.)*B(HL>+<6N^?&5*Z;'(9E]+ MI#E"=!E
NKUS@I@.]3&]5'Z@@1]8D6UI.JK5P X/JR=9'LU[V2TM_K-"OC=9 M;S#:IB_7"9]'%+:P9:.OJ#0IWLPKBR9]QA' ,
[2(GAU,7XIW@B4DXWRRMA"J M3;*M+?O]A@J4Y+*O4?%SC(F\R'JP2#%_*!2"V[*/;S+^"1FS;-_(Y:^R+9)=
M9MS:$H669ZT4E99>6PXTH8O+UA?,?W&IKI'U,Y]0YW7<6>:SI2=K-ABX,$OG MV/@@RP(9KQ&.X)]IM@J/.XZNNT-
O_70JM(KNY&"9_7 IO0<\FQ WL7ZR;N;] M"6]Z*K5R24 1^.>+1'O-_C0CN-B%NSO!0H)P5H.; &##RSU1+
MX!9NJ2>6]IYA5I#XBE:^%$2CE3#8$946JJCH$TJ\F1^Q!.3FQ-X[:W$X6AF+ M1:'I!N8LJ6\VZ^9UGIHQ#=XN,9
)A_+A;8E@-S3C4F"4SV5?*\+">,*+Q C@ MS 1>:@D_+.2JH^5 @RD"XQ*%4^J;F0ZH2.E2GATMNR@!&=]
(YV"Z6##CT#+- M3(!&V-< M#3DJM30=N&CD@D*.;-L6=W-+\.=JB1_N7KF/VX"G3?1I$WW:1)\VT:=-]&D3 M?=I$#V
375RM3A?']L4[I:YI-*@-=!TS]JN%3C)7E.\)\8W?P;^%MP12UPU
M6+1((1W$#KTK9@=M$/0)U/DSZL0.#KA>S2Y>P./PM4YZYEVO:8QM$'&!UEP. M7O>?4\2N]AZB.1+L&?VVZS6K
G,&X[B38@C"B^[M),([0&H81 M=)5#N+]4TYURQ",8C ZHC5[HI:EHT6X&W)A(&X*DY!V*HT?@>-#?$<(7L.
M[HT_$\TD&A1=\&V.3E-5LNES '"X@AM.#;BC[W9$=KM2UKY0V1&39NK#'8C@ M5H6K0%@0DN7:4$6V?
5^@/8P?,T=0A8P%93HB*M!^7CZ$0;?YE5L#!^1%3;M! M:?9Z6!?B*"[SFH]O PW;-F X72(ER>,H#,=!$#L^60/'W+M('?
=A.BALD>V) MQ*3IS@M8)H' 4G'?M(RB7ZG1(13LO8E7'D2U:>;8C(=,>[:&EH)P^">91JM M
&Y8BNC7ZDXE06=%O2&35:6[N _X*FL'U;Z9>JH09,EVI8%]ZJ\0U'Z4R(IU M7(,M\!&_9H8$O.F]40/3+)5>X'-F@9I.Y9@-
EF-^P'!+R+M">(-PLG;)XY', MFQ;2K6S9$DA4)95A1]/274#(/J%772.%EK8LS=MJI<"2(K;TU=CP@5-
V,#V8ZA4!A1F+2;YD[%:)PW/MZ-;#:-?*QC5-PF+ C M$-K-5;Q?JU?Q2M%1C=?
O"KQQK]]5830=Y^=%']-8?/I8#1Q,WDJ&M@0:2T*QO>Z[6.97W;5WYR"!_6=!A4 MWLH$6]:^[\9]_7[IA,![B)]\Z-
+"T4ZPXPM;!&TZ@M9 W")VS*_$7N=Y'.M^ MG&A^.1W'G8[C3L=Q/]1Q7,W*[=$)EKPE=^&;H?&-=1VT;OU.
>P%>D1M;^]3YSY2"==P@@.WID_6 M:PG/WYVNC !VG:O'V%V1I3#W"=8C --K?7G!'Q%N6;"5O44_W"O@YKLV:&_Z
M*%U*90WXLDRCKZ.(":NH@:SN6AB>/ MP8MY5

@LK.8F(E5.XH3:<6C\(-KR_> M0&0BC#>4OYL>$>KB#65J3R$Z*#NC7:0 MOU.,/,Q6#@;A.
(Y6",,_*U4/91N9WAZHWOX1TX&H*5I'(61$W@P M6"JHJM1J6#=8:]FQ3&E7:+U&@! M$C,8%WH8MUIKV;!=.?
43E[C)L*ZZBGG14YGDD+HU74PS]#/'=_#N$7BQRZ\8 M(]5.?WSB71-
]*'"D12GTS0&7C*Q73KB:.5MB#=V[TAAL(PK043AYAO]SE((2IY #DV<%>FH0Y M"<((QTEL/LD
G*^<(#57>ET^N6+G?0-PN:*5([8 $WO^0E!'UT2NASJEO%B7 M%:3IM\56X1D[A*9E7'ITZ#OE="WA!"[89W-
17D*Z&"1_9)0G#GDT> I&JV[P MZK>;YM7)NN'XAQG9$HL/)[0R,D2\M;N^[O5;6JM@EC[!O!:#9++'JF?9:T_Z
MS:Q5#*X7&;QJB]*^3FM*A7Y+;!5@U"X?+:NO9%F0!G*N8TRV/2EY:>3@:T#D MEA^U)R&Z[*K=(0N'M?3J
*E^XV@4Q.R*79.Z3LRM8U4KX-2OZ>:U_=IS:]O4 M0\E\!)O#!=ID$Y ?G:0OB5SPI@S9UOIUW"J$*LV7'K>EXTB%FCG
S&VO"%I_ MBDKSR*F(#\N<:(Z!$\9X5SQ\=,DNI_J"JE0+_5IJE1,FY,5F3>VIS)9@M%AK
MS>FK?'/].FP5;I1G3,N()R9G3698FHHK4%AC+/KUUCS# !7?0!V&$ M@HJ*.L.J7Y&- E2=\6N92][!("%G$D2
\,"JQW*Y>W $!<.5,.C7=JL@D!)O MEFDV,4I6\2<6@'Z]M$HB*Y)N=/Q,3S_]IK'5+KAV*C2,^??5^-.:%91+KN]?
B4V"IHTX,RHLN:D5;A"OG?GX.\@ MHK$[UH,Q#7'HOT/2/,2BSIU%2]-I#)?>236SE:'06K]<.WF5Y2.DIZ-B-
MX)80J5R8[WVU,%^"]BSI=E3LEWY*NQZA15:V+^U]M._>;!F_P^,=["/EX^LK
MR<%208:TM'=XN;MY(7,KS(J>)G5AA&4!>^[4Q"-6"6$30N@+\.8H\0, M0@9:#J1M9E_A@MTC6;1_1IA^["G-DM>9-
>5']%ES3Y*T,6S?#9OWL:C -5M/Z=P+:T!(FOJ M1.FSI@92LLUB6@J+2&S)VLJ70UF!&.*45_"=@O*C^X&E9;%
MXZG$R;&M7%/9K,WC&CL&$ MR2N387IO.&RC5Q;WT,R^AO^QY\&4_#R[*N1L,S7U:=J@AW>652-0&TWVJ9[;
M)^6MQR.@ZB6_7Z$@X3UV?'IG_+W(D'538GK;J77DJ%BY;FE;EQ>;BVT2)!<" MZ1\-$F+?
*R3$YGV."IU:D@9[G979YQC%-QBM)D3I6^@1K58L,I1+>^VF$TV/ M7\VIHNF[ZGN".(^,<>!L35SM4M'[!
[4X(C#S:%F%&,K2(_ 33NDUT3FZ"2*: M_\Y[U$P9@P5YJ;46R]55'7-]G=!<(CJI+*XA!BYI0Q\DO',"9UEZ5[!ZP"+5
MS/3LWL(.#X<>4HR>7NJ6?ZF[UR&PP/;II6^YX:IB13:]]&WYL]2*+WUK>99Z
MX(^GOU<3J9;'TQ66\BT'M4IDY&@1WQUZLXG^78N)G=K?S0SS@Z;R9V$[*H-> MDZ49_9@>=+18:?
=BLS&TV0V'!C)GI'LW?E)9;7]@$ M);86^EE"J/=OR[.[5H[6ZN*T.XF\EI]FR;FV$&7+ MJ\1]V+(M,OYA1FKU
^7.WVKJAT9;GH >YHC?2.26.SUV+4^(#]*$.3(]/67>W5/FO:UF3P^@V_ >F_J-?ML^NE%Z38OD?=F
M%*=WJ'M[D=U4)-'*YUR'=";4J:A?BVO(7+(]O5]<^V"[E0;?5*JOQ;:5G[G7 M/+0;+Y'&>Q?

>2FM6%N=K,6,F>U\P"CL/A(MZLN:I>"N-4R2Y@9]5EGE*HD6U M"P([2++F ?
L!'E1*BMANVZ:$Y@\H[6MN9\^U'!9$*^BN)B$-HP2D_92LB^;/ MP-^".Q1$*V9DT3!!^NU:XVF,#0)^M58=1+O/*,9V6?
814?JM6^-!C2U"MMO" MC:T\+%]?O-=]=*1)D'988THD]9?$A2K.EH;/<\]J9'GJG>BW,MTG6#T([;7L M_5D#?->[?G8?
^LUN2)>AV#(S.([=O+A^[(%;%"QI,MPDH$?^< MH)2SY@4J, M1;]):#Q>:BP5@\6-
F!0IES'Z4'W7DR(^HYA'!]0CBOM4K(9\7X MRBSM4)(6&-[K>]RT>U_2]0 J;YU;R%*;0_I@:\IBNO.
[J;!Y3DQ+6)\4\YRMA$&T[.!T,@D0O)LKLRKD49%[YTU:^7)!C$TR/&> MU^A]D"MS;X_"A,/<,9!%XQS+X%CR[KM^-
_/L@8!=\+?@M4UL&:38-G+8*M?R M8=GI(_E>)_':7X^[T?;+7:>YW_))U0W1O^8B^-U+:Q CH-*
]2/7C+=.GZ=2OH.HWJY!?#^*89Y* M^9HMK?XJ2_G.R==PA7PO?PR=_4![=I-SOG*B*Q3[WB7@#IE=(G[-9
M8L&%L/PX(!L*LFU(.SGD'V>;C/'6@3[C4E=S-*^Y6'ASJ=AVU?$V@IL&UQW? M2U]W))_FDX?3K&]^2J][8X4[O@8+H5
M.EO21O3P[0:VB,'T:8\1Q18%8%E2PRF#_I1!WTD&
MO<2+PFE6*OGG9X0%%\'VY^:LX:85.M.!EMY/FEM)1_L#TT4*;YTP*CX,4KII
MIF((-8A,AV2,F4"-7*Q2_LWE9'Z=7D/CWT)K8Q22'9@.\UAC+)+RLF7)^GI2 ME31FB?
>8JM1;#13^O,92N3(*TX&CWM6M+!%SJE9>(#3!8CJ@9$;AMBT->ED. M#&4)H#M+N0,9&4Q5G<5/(?
A73!BXV5(^E3-4?ZX^R)'C'*5(S>:DECD49I8R M04W<[CZ+ME9>-KQC,& X:ES%QN,2$L&'.X M]E&1;=_W+@Y>,W-$=?
X84*;'#8'VJV-"@>[3PS[R==4E1H'3\SRGYWE.S_.< MGN>Q97-_6Y,VQ0I:+NKGC64Y203>?OCA^#CO6M@-.6I*2VZE9@
MV;(LV,10:PN=FJI%*K?P%0_&!?JU>-H5\HD($3X^J4R'!&H[=#Y(#BFGM+;N M
N&U$[@@3YIF^5H76&U)XI'VMBZ8MLS?R)(W(6="IGW"0W38(N?'T9>[!\)> M9(\/!P_]?_];X+T2M.TB"._NVKC]]\^
KA:!7[M0;3YMZ\.V?KB7[[Z7W_^?_[I7__;Q<7_N7R\0WZ\.NQPE*%5@KT,^^@MR+;H M.=[OO0A]PDD2A"&Z3
)_@Q'Z^.&;/WWSX9N/Z.+BSXS$I9<2E#A"C-;OO_E8 M_'"54XNC']&_?/OQ#]_^_L/O_X#^].//''W[_@-Z^%3 ?
2*OGE_2<)OXF1#D#]\]VT!^!6'_/$]#6K0 M;]\5L!^__3^?[IY66[SS+H(HS;QH56%1,C*\CS_\\,.W[%<"F@8_I@S_+EYY
M&9MS(U]("4'_=E& 7=!_NOCX^XOO/G[SGOH%7PVV#,*37_VL1!"!O_^6__C5 MG_\)(3['21SB1[Q&3+P?
L^,>_]M7:;#;AY0>^[=M@M?RX<,D^9;B?QOA#?WV ME/\?*/\?_TCY_^_Y/]]Y+SC\"E'(SX\+I20_U&CE2-
].RNDSL2+*NLH,1D^+>O)+]_6^.'@LV3 M.E->LBK(D#\:Y,PAOEW%Q"CWV47(IY.CKY-X)V4B'RZ6_/C7\"64<5EC,<%I
M?$A6N-7'$#E3S0\?G=@D@:"N&$<7GY^^^O-UX7Z]R$3K9 R,$@/[RK^!!ER?
$J]M5Z8<""5!,K@>I:HT4!4B(+GE0Z54.= M(8:,X@3E!!"E,+VB/7OO"Y\L=\$ZX'$UPWJCA(=4+H,0=;52 ,IE)8;E2H1
M)%3' ENQYKY/)B7-_^\NB/!'I:Q26$B]T3!?UQD)()"^*#E1Z4H..2O^@"@. M6D8 OB;GX(K\
<9D\QV^124H1T@$]:3(NU9(*#%9'3ODP:@A%H"L210'3#K8N M+I.')'X-HI5ZKZ,"=T!/%")(E>4$%E9CI,P8U:;9%_[?
8*_= M)0ZR4&;-31"8#ZYBM?C@I[]/_L'E##0^./L-Q6OT M\?=?O_P.%5A3?O7GQ*,I5D_'W4LLD^3D=YCO+66R^-BU'R?
_TI+1FY^9PR . M!&'3-^^K+>$(*Z+@9:"A 8H*6* H^-4A27"4\>LW MJK7DI'%
(E3M2%3CDUEXO0GUS+X<%VM[KF%%M\',<5"(AC@5Q?Y)AF@T6O.)K M+_-RQC1A?3DX[(V)3H33JQ(9+-
@=B9H9]>5(B4.3,;Q"E6#NW),K+\.;.#EJ M;Y,%*.B;]P;#'S'E(0TBG*I7FQ,H2!60 M,EQ7@1H(D I(>%"I -
%!>ST*G"SP\F&+& _)?%;MKV*=WLO4GL#!32D2F@% MJ*N&%!1(132\J%2E0$$T8R0>/7;T]8C$[$\9/2=$SU(J_?
86B308XN%.">'%PT&U!'&R)+R M(,,P$4.=(8Z,!&P _2*;X<0+%Y&/W_\3J_U+ PY4B^1,GRA.'0A*5V1<*-6# M
R,&C0CXI#=8_&1T&Z0K+_P+]A+U6D>;M5Q[_ MX/"((H ^+ZCXOB7_(CO**"%A'Q>; =[\CN,/DB9+'2@
M]N/DWUTR>N-;ES"(@WW===>^L+8/*07&_;\T^,PRPM_J7ZUOD__)5E<5%> MENO;(/*B54"T-
>8/H!1OT]NA3J\A742CRM,&;U*]:L]8_O[I!3_]^<_/\Y(C^/7LOC60.%9 #.E5C5ZH]#)63P06FI>]!1#Z
ME8']OX[HP5T0X07YX^G&1 ?H@#XTV);J1 D%JQF"G%U1#^H0(#H@8Z&Y06% Z-<"3.T;!NW\KY]&#ZZ0E\->.,YO$
\5M MP$+KKX+YIAJ?)JLY03A5+/RFP5Q[3;3HB">8X#J^Q77KJ=1S[]OYN_'8)7 M+R2+ MZ.9]A=-TN;X,0H].3V.VB)-
;VGMQ*&V9HPJ0#@;UW,DV:CE.TZ/V[C'%"/;8O3B MA6SE2;>8+$8^>Z.^SL%2X@"*Q0H1XF11.?!Q45
-3(#HR%#>H.5,Y.!(@$<< M =+PQQ=BDHWW(B+^AY]DNV08NM4!X';6,M8%3?2XN\@&^=%A[J^R0T&,WCOPX>?".
MU+BENVD;+*"%U5Z@X"!,B\2Y8H1<L#P<-HS[-@R'BTV,"1 M9DXQ(AA%M(1[B.(]8X$,L#JNZ
DT6).#9K3!"=3RW7ENQRE>![Y2Z)A22TLK_"W5IAP>X(6@HE;!0LTD!V$ M-5]*V\I1692)(:.36R'@V/5@$J8-
$1VZ&+6Y!W/F(M1X 0I_\6EWX0F\G;;A M^)D202[=<7(>[HG.M+C3EX%#:[-:A*9B-
V$!=5S%C%+=*P37KOBM1;DC.]B+ M9YSLG+"!AX3NLK/C ^$Q(VL2O1;=TVV;.BBB1X'<$)E%J>^$U/! 6R 30Y*= M
4>9(8;$.V$5:%,$6LR;GM8RW0;OV"_W;O"Q(O=%L @>=1!B[OLL^QS80RV+ M*,
=]E+\&&RVV7+]F6R@Z>PJI#7@P/DH*V%$)Z5% /%2%APU5*G$00QIAAC: M1;R^((C<3L M9 "YVH@UT15'1M@-7D*
<;U)P=O.^"@_TO?M/<>R_!:$ZVFR# M"GDE8B]:_:K$C =TA6++F"3L7Z"*:P[ZNL1'!8'?@9M9#S$?O(S&$]DFA]:S
MQ#LO^6V\BX[;(HR?!>\8O\N6+&8S2;![/Y2V.W+0JFVF$ 7'NT$*R\][-#@
M+C[:*>Y_%@S,BBD=,A_5SRF6%*:H:BD!74-T4M2CHP8-LK1484O'+$A!?>7R0[.2;95-
"C0W;,Z\D&./TER+;Q(7O$GA^$QVM, M/NPNB&@:SJT7)"PCFUN78D7H00]N^]%[$L0]26=B(!N5GMPV"_ P>J@BR&Z*
M"464DT0B342)\K<(,\3I H7(IG3%84!3IGWT M\^+&B0MCK0-PX7;L+O!>:/(R6=7GD<]*1V[CT"=?AR_ZAAMC>W0X
VPKHFBB MMK@@1MR..^XBWFEXN[Q?/BY@G-[Z_1T_/RZC__?7EW
M??/X],_HYG]_7CS_Q1W;LS[0PJKX"%TW@M\Z+"2P%!]%W# M2;-F;PZ+.+ [Y3S:"/$YPEX256_MP5T\??C?
7*O4EJV"!W7T>B%.?+T<&,K= MZ[A1%FJ0;7W@G7XG48H7--#AKY;LLXC8&#DN_%HYB#:WF/ 0[W8!NVR2VZ45
M!E!.BYT@92Z+'APNA\6&K][U,L)B$+0FHZ!5.0Q:A5Z:!NN 6 HA ISETFDN M2B1$L5"%!NVY1A)=C5_]MZQW6E-
"@FW@FL8%]=N"1C(JJWD0[G(\9TA8HCN M[%OMY/_ M6^=5NIE)V2YWTK%LR=8)A"+"/Q?
9D?,L2X*70\8>ZF0Q>O!W"TP #;+BC8+G66^<$!J:-CI0)R1,M"H88W*QXC+9(TP,>N3"WA89W M$
%=H/_QX9L/'SY2@RW$^?CA
^W2P3IUI%MBR"GR#MDV3H*_8_]_HC_^@%JJ0YR4)A$!QTORCI'M#%W7NHX1X!.\L7AMAILDI2+"7'I(CVY7P'8INBZL&
(A0 M2S%0P,+D&6B9:<804[A M%"P_95Z2G0_3QLBL-;L\0.M>Z,GTZ-@%-
[#NU:+L]KO9:O>*_ENSAUYQW.$)+7A"RH(,F$0+=*R%_>,8?RQ$X&/.:O MF!P= FC?*(,8)^VB%-
!07:*T[,A:)^7O./,C'L>9Y++&IB/4^4ACU62@LSPI
MEZ=V[^.>N2^K*Z<64U##O&29/&4T.LG"C0\X86*:K^C5F$YD:Y@$4R1PJ-"@YM*8 M)Z")X81S4 FB< JGX-
#.0,Z/P4#RY;7"=H;?3J+Z-L$S2P1C^-J0 M@1+:(8-7!PL4H&X8NO8@*C.*:3(ZVUMX:T%<"0]TDL2]P$!##'-40(_BD&T;
MX@$Z>#>LW'RNE)NZ.W& @41R*@+0729'S_Z2/",NF'U>4@'O5*I:70A#KAH' M=B593>3&F.C%40I;
;;XML(4IL%M8HM#EK.>Y52@,]#(,9T6IUJN.SSKL*% MS%-K(5P]=HJM_G]__
M=/.$%O<.=A8H9>92$G/:QQ'MPC=_#U0.W(#C@$[JA)'JH@P!5@?5'*F:QE6P MZ%
<*K7Y@.F%KQ)*IZWCG!:=U'@VPT"T-% *V(I1R8M08]"L'!U89 M86O\B>62F[?0!9P3Y\8ZTXK#
(@>"/B&*7&C/4$Z^&M5JAP''N1>D:JW1(KCT MFE2K3:>/,1>./L;4*I4*V)U'EVHUDD,Z\;A2KSAG\"1/JS0:>*Y+9[<6;)??
YV"WT=%#&OD=^3 MVSX^&X'_Z5Z)\KNWZT-"&']@ K/<&B;4I9=BGQZ4<)2R5@4_)7&JCHQTI ;\ MWK3[!#0>I;8G!?
=RM2NO\N>M^=4RXO00)UA61&)$+UXH5222G2%&&/Q::H0) MN;AL2%LTG7'2Z+D3&\SJ+
<@Y9_;64V!A]T9:+AF^);.M++_8:IRIZ?>:$HWM MG\GB3W];[BGCZ\,)*>'2H+ MM^G#3@
'+H5SH5*NTFOUMUXM(>?,UT)L^R7;=0,VLBD_]4N68#1/$@+';ES1
MR[&V5#]X1_;/\SCS2K])]FFG"&P&L]#391$WFNWKN2WLYKL%V(HIND
MSO5^CGRL@,;HG:S3<)9MIX,BL#T03J2#G49)0]*_L2A.MJ M.0SG#27G3_#B=9D=NN;IHD798)_O6F@C3![20P5(
M$Z7>R^7/&#];S@MD[\PIYL96/R9TGMSW#^P]VQ!URWVVGPZ3_[2GZ)P#;, .4-;84I?9T* F5^ _=3Q6O?G
24U^DHU>FSE")Z7N " M5U7N(UIA[FGMHSF0E**1QR8%YQ3#D:0FN2#*M*8Z.'QBDXR?UM;BTC,N*X%J M-
I+5'9LS%T;W..,-V>_4M\$G,' V(656M((:P'BK8)"NPIA\3?S3(?!I]H_- MQ*DVZ3A#X>AWIL::O+:LWKEPO3L(LY.8%V>S?

)E>"*IA(8S.8, HO$I0$&6 M'RTO;9XZ+A]N'N?/"P(P@B*E228H$?E;I4#D+W]]2&+_L,J6R1-.7H,5ECQ@ M5(--
KS(FEJFNJ& F51(]$Y)2A0R45QOGT.,]1[13"58WG;.22I\A&F!!E4/- M_(F&- &AU$3%B9VN./$2,>=,^[KC!
:RF*V$V7KI6@$ J%!M@X-FW,P+^>Z_ M4"/@]\L13C;'7"VUBB"%!'R[K&:\]G*Y"0;S;EG%AUI!;J)-$&',XLZ%HX%^
M2_B*HP,YY.JWK$TPR/>#^*%\/!V&FY9A/L!7>Z 9, MA-RQ?#M.I6H\JUFSBP;;0[C21M%%34Q[1S7]!M=F-P-
OR\!M8NXTK M\#6W#)C\D\3I0G<9J$' J*V%45%CA9Q!U;8S?^/0, G08UM MQRSZFN8Z .<2+?
<.65P4(L#&9^V$*8>M-8@ $6R MC1Q)HK$5C=Z/-7"?OI)ZEB<]"G'"7(>0D)$&Z^#=!^GK,5!
MGKW*2"%&"Y7$P&M$]9*9(E)A;X-W3(PO37&6"]ZSC8/BR?IBM_>"A#7CBA91 M1E@)7D+,QJ67,+R!S2)ZQ6FFJO?
1F@30@_:.HI;OVUOBPSUW[\1HLRO$+CY$ M[+(A*.FQ-X&(+!#Q)J)MKED/P*I.!Y'F$+)3%YUV]LM;$F3XPH_?F,W2?
UEY M27)D!YMR ^MR2:-P(5DCT:)%CPCCQE %J,UX0"]L@?Y=%4Z98E83% *1+G"
MO/-2BE>'A/[A+IB$.]Y1_FDU54T#)"%1WN M1U)$**&\)55%"[(TR.!BQTVQF;[82SW- \Q*[O6IW+?,%)@E*!88:VS !YKM
M!*P]V+1#A7G V88WK9ZNF^8Y0[>"%P3.Q1A2T@>R8Z+=$JDA/B>>CW=>\AOP M[77C1L?VYL>I6T"KVS\W;OVL;\J ;
[AM&>?Y&"W8GU:MC>4SI) .J+:^E(8$ M#%:]C14?*@WAH*:TNU\CA-'P#I^'T=QG?W<]@R)'19X@$5D M;
(6J%98Q(8'8AB57S=HH EYI+#GJ[UQZ6M)5P"4Y_B8-R8 S0ZHC$6>,;/8P MF3=U,1@5.&0U&+T(]7(PC
Z9IJ[ZBK"P>%GJ, MXF^HHP2VV24YY'/ M#._9>\=IL4N[Q!%N)JY:8T%%,*T%JH*61A3 .*4E;ZK09,]*3U6QLRU9I0$
MPCD-]/4+I_([L*A>5P'S-8+&Z_BBP7#+,P;Z.DQNI#][UE,ZK2P>[#-[&
M"0XVT=4A27"T.CXG7I1Z[!*WN,ZYQ&L"0UA5>,!6%. 6RPZ"BNMG"W20);4U M?
PWMS"F@@@02:"#A2G*&7A@EJKW@R^]P8M^\K[:T4X\#90J5^^RV^W(G#W:M
M#G1N'>2Z'."@*XFVE"4/[PDGMAFZQ]#71F6PA@9DKN*(2',@ E61&6[E'"Y? MD/#];QLIV&]L>TOSEFB;RAVQ
H;FENI?!^$A4V:!**'=4?\3 70& MD(,Z80(U7JR,(,=PS@STDN2_NF@*OY"SZ);P-B=">QO,>X8MU[S#Q?*0I9D7
MT2H^NM6A)0TXL^DDK&A,K0B F%@'#AOJ6M! .1%4=9++NZ$)A"99F(Q95$.* M?>'E8C>%11<&:2%M-OA3
Q^\6HM2>OVO@81[&QEJTS+F M:O[T[^CV;OG+&"UCV@3U<4:E8>$''_N7Q\\I]A=1F9 V7V7!:Y %QCH]70B! M-
@GK*/9))[&65& N#CJR*6V712FA@A1Z.:*O*3441+\3LF\KBI,EBAD7C\%F M@B,DG8*&8
/"&+NL@T^0=BP"@K5Q.V#SIXY+_"M7$I3:\U"QJ$7&: M"%:4YWV@[[7)*7Z>94GP/F&I8
M$.):Q[_G>)AU;9RAX$QMS*D3C7:,<4#,?SQ!FHETU5#4192#H8:'H3^?[4H\ MX8P2+WO!YDD8&7"JS4F7-
YK2Q:;N2GT M%3W+],J*E_=YSBM-B&%_M^V :W:EV &%9#=1$2] KU,)I/FA7A& M7887,J7&B/US7C:
EP'(*QFG!TJ&CQ>_TB3>+0X2.NSZ$"+*6/H_*38A1@DD M/L-.<,X,9>TECG_+:P/08@)1LX! 01CE&<'%M-
7&KX99AWB5$0ZC]+#;LU'\ M VN")M0ZX"/E]0FV'ID"U7Q!91_W53-M*:"\N);9QXWKX<<7%#@>EU]F8_\J
MWE$3UU4+4P$#QN"T[->B;U)(F+B;AI5FE48*?/%"H8G#J,"!=SSM9,CBU6\7
M#!I=V<@P522!)RC=QLEU?'C)R'HP7ZWHRP]-;$&# AIM,(IR$G]0PD-%) P, M-
8\6^<_T4(QJ%F*$KLFX'_#Q?/&9!7].^!PG9,4]9NDA)*U>G+QBNH]B MA2V01.IQ7K:]DO4L3HXY
X3CY4M*I$Q7.%J=YL?;H8"]:;,217C0IH6'?,UF MP9A$@_)=8DHWC4%!@VPX,=^+<@6CV^I8H
;WHJV+D"46*@R&X"$1$2QSJH=4 M5_R=3!"AIGQK6_FF>C>08+*\7V/^_V)@@]?:TH^+BC\CJJM$+3CYV]G G9]!?ZZ(/
[5)"0">R:51:[AVKS8#T_ M,E27;%$MFMX,FWB.6*"*,5OC:[-3[">>?>7:'E).MO&M.@DK%G]H10"T%$0'3J61\:"T-[^T-
R%\F^] M#>Z1O^6!7&*+>25:CP]*0'@W:UI&EHU+@[TO^L1'FV&4+SMDC_Y;SAU8\3)B4'+KB=$>99\4&
M,1\)"4.AQVK:BM%0.5P1775@0SG=Y*EGZ=M>,P1T BPB28&R(+$!QZ4SGT08 M_6%/0'#DE-?@R-
9Z!40'CW4V8IGY'W1#],F+#FMOE;'UY&<<^7'R0%84[ZC, M8FI/PYE-C9VPFFV+GH!+&Q,;3G6]1R3;#O+/-
#]LH%35(S+4W;V/-T/T8S >!>LBO0@=C)8'PAND>[CS+&OXX0JO%2- M%N+D#-M0U$)]D["PFT!V"L!?
XU7N.$[%>*VL)YG44>N;;V]';$7-HUM!%? MOYVPH>3(/L.>55O3SBF6:195M4W#W0?Q=X+_0(8WX8 MTI:
(2T9M(Z[E?:R$@B-&;&:Q_7][UM997TF7%C/VQ?'$@Q/6T(G$/9*YDYVF,[7N9JN/)69U/3 MRB0RKV>5RPHAJK%CB
NB0OHBWJ-O@))\6D+.^28+L2U\E(:*2[[*R&9;GU42 MA"@$9-.[=:AYD%BV3';@-_3Y%?=S/%_][1 DF,A-
W$]V?""R9#3MCOSKGH(H MIJL- <#W]:W%K+VVM\:&>7O?DKWFW6B9\Q*CG 0J:,P0H\)+^I2$P.^&^\M, MF-IZ]"
(X7J/;X)W6G7;@'K@AUZ*L5*3-Z[# <\CZ5$)IC>X4R0U;DW-E96(5 MZI09%_&*A<=1:PZ-K/LN GSD#RNG=
"6BG3ASRICL6O@[K*%/0@:U?8"B=J M^Z)B'3H?LIL @84 $R]_U_@5A_'^*5YG;UZB"CIKX%U8[A1"R)>Y$V#@Y4W*
MC799RS%0@>+::F8GT8E9%-"%=-K-+\P.D46N'_)BDJ\MMXD*9!>,QT8\[891 MBNG&KE'#FM76D=]65
1<2=GM)>B)Z;F3G&L?$NH=4SJ/<&>_,*?CX$B.!J$1_RKPD@QEG9@(NI+'8N0U)/7:I!EU0U!U;TNR2TGQ*9]LB5))_LJ
MM^+=4 G=/VT7ZXE]<1N=@F=Y4V9^NY[DPS-$OV*@Z.#L8+/@?G.G;:X[0PMA M;A[%N1$&*"JM.-
IC>,3YJ:E.Y^GIX7)S9E@;V2),GP]7OLWW%+YQ2=O6)BUJE/O M_76YSJ\UO) _00B#G X'Y+QA2\2* G;5+1*" M-
0_&TG*=5Y0DVUO%M$C@X-16R;2H@@T@$'52<*%6C0H2_?J,WS-T23[\;]"1 MA-9BN*/A3P=BE!YAV@M9Z_?Y2WS(?
HJ)#%=4TY*(SC*;9&44Q9X 9+"NK9CU M>)TM-E#(KAU[DEA620 Q"LBC)!"C@7(B+AE<;XEKDL%:8%XGD>9?$G[8
OE+ MD&VO#N0PL<.)89-EC0UG>RT%% W/$A7$ZEKQUE# HNGH(U[%FR@H@R %J12] M$6*HH 9\^VV0U;1&V*,
[JZ7:]<$6UT4]-7G*0E%9FG=!H*Z<$ZX,%@GM \E[M'H9YXR7TTIF8:BG47T_ /L18&[);:
MF!RX!MX=Q=&Z:"6P$ZIC%=TR>222A0AE<O!LR5A#Z1RJ.*H2PMY!MR/A MH):.O
V^&XII+TW/*G[6R_[ZZC3'T#LP>Q1E9E:',L:WSVW^8HM%S@2K5F:." M]%G'=*G$,B XS55S(\U,)J1HT4"_'Q*[MN#T!V-
-Z.S%/S^YVV& G^3;L:6IOLN33 M+-X%:1:L@*/O3(9/.-O2M]25A-8'DS8$ ./SK<6L!>RML6$B^"W9:X;T&0'$
M*2"Q1BP]FOQ''!"5_9G\G;XI<_1\TGL.G+1.5I^7GYCN8YZL+YZX3$G/MMB M:>+#Z0]3)@P@(X5=H*4!PP] M.-
Q1PX8ORT,'?<@3,_6)X@CEBH<\1A'J -))/&X#! OE:+D]N+#F])7*B9 T M[[^;TF>4]'61%YJ.
(%H,T/J3)D%."D^JP*$J3NKY:;YKLWVU-HD>Y>\,BB;0 MA1C8OPN\ER!DYR+[PT1G:G#ZUW,"1-WL2 I$;WOQ*M-
I1JUH"\[?8.>*+E!T M]/ Q^&0X9.!EH_<624D:#,C@E%&0>C1*"0X4?C+P(SG14@Q$4!S4(7-"D@[% M*2TR)"2IX5W1(W-
HI% D1_UO+YF@C8,]V]_&H4^DY%&L^S@S^5@3$N#K1BMQ M:B\:M1@PKQ@M6)*4Q-L'M "7 T71Y?S;>]\6^*YIFJ5?
MD9V2/_LO9N(_\\H M#^]3$C .W.*E5%^)'3(^,8=$K,/RB$/:GN$J3K.4O39XH:5:BHX,!H??ERB< MF0XS':+M]J,
(8M!#L&Q=\.=,U/]2%-6T(O6F>@8&H)^03A8@)^FV">AX;E;N MJR5Y801HSSC#
[PNF'VALEV/4VO@.#/DII=0R6=8!LUH@)7H+46J%9LW MX,#4D[=B2O*4,MI7F,Z85IIB;/3(9G!( ]*+4+<9.2R0F>B8
M:59V"C;;[")>7WQ.<9'91NU#2!AP09>6>[+SH(9P1WNB6?AG/1*T7IG$:6J7 M"@-0Q_0L27PP19JA$@TQO%G])H
EW;@4"^DDJ_-616N%XK\=:#^*5XN@OQH< MMGJM3H336K4R6+#*M&IFI'5H.3CB\&YICDTI9 6\.[IC+'0L!79">VS*&-
?4 MQZ7-;F]A'*N$_Q"'P>K(_VLR#%MDAVKF:\73%M*78KI175_#FDW)_1GBJ.C7 M_/_=L:YA1!VL++\BA%
<4C65UQVDY63I0:F-)[=&! GP=1"SC?2UPX1Z.M6;2 M<'WJ51TM]MRJKSQMI.&ZV* LLK<3"H-
V7])2\+1M=)N.=6QI47=B6_]8+D M9]JW3.C1LXC(OISI?2Z?PLU:XL*MXZV$$Y=Q*T205;P%9\WR7P07_5PTJ2O1
MD8#O*(^LN1CK/!B#Q+K==T""6@UMQ:G7,.-&' KMR5K/=;K#>LJL^)#0"W3 M7<6LM<1QT"L,)QSL^OLY)?
[L)LV"G9L>J@.!65#F[XM)9AP!9(V4L-'2 M!JB) 9=@#NIX+WF@<[Z$;I_>TE KS<6$1$5I]D-<9C94;NU;($/F?754LAZ
MVI5RON)(E? OX,%11000)Q&@X;7=\94(@,?@%VC]^$N%@21^2/*RQL MH>V"N.W)P-EI5Y%%*?EO&,9RR>P>-
)C@POZ<,=>N)/G.69J+?WHN,_IRB+Z?O2)!?YY8AV MWG_%"=HGL7]898@P ;VXYC(^XIT7T"98#SA9Q\G.(XJ^?
GS%$5:569%_,9S ML",@R_43^==T[:WH;U9F._@HX'TVAYXP23O.H8: [-HYK RJ9IAA'A3J\D
)P#E4NW7)E,!*IH%.\9R!:.D4&,#OJ54E+;(K3N5A+?>SM\ M'=/=;_N9DU-Q4H=U EOJL8R$:
[JLYK&E/L]JVDR)H5\YN7Y*;>B>]@GO7G!R M(K<4 KAC6IW11J\T_C/$ _3F^,IV8NA7#@::K=&*8U?.N1H+;'GD;4')A=-O
M:\'E!V%K,L!GXI9\&O:TVOV#TT?EZ>9AC,6EDD/:_T=KL5T("U-G<0L5ZY6 MV')FAW8/.,6/4-
(6]K>HHN-.%&%XJ?/J@SSB[DZ?GTK&9DN*EEL(
M,P$7=@ZV8LHW#"9LX'V"'7M:)95U57'&+$>5&#O13Z42[8%G#OSB)8D79<=" MQ&-+L[0EXX)QMA-9;J)V-(-
M0V36N7-":&"4FFW1Y>M=C#Q5UOR"_%0040? MNS S?BMF(B[OS9TQZ:HZKUC,D57@7>X9I_-5%KRV-

_+NA%TP^[[3(G<$7:D" MNX9^;#>M12AK+1*<\58(**03EOV#%TKJ@=-Y,<[S,(.XX%R&G"ZY
MHQEB!&"G,YP(6A,KAJD7XA<&0F]D)%0-I2S+3P<$OM;L.6=W0807&=ZI[NN' M(P^8(3_P%-62Z >B#9-
G/RCSS53\H>R,#H382-"'AY%G3-4%@R4[J<\/4VV M1I:>U8;/IJD-7RTZO(_7)R_Y#=,,K;R89QQYX:
<@Q&0/%N'T<^3CA+)'*]>7 MS%'>VER7##L2^+W*&!,GN8 9.]'$(O$>]SR+8'\P9[.S8R M2YR,J['1KA@<'>C@*-MB%!
(.$#/(H#3(/1D)_@)H@DD4;XKRWH1\/$0&1,*(MJ!H2L3$1'11)FERX$PP#G,Y^FNA>O?$R;/C)RPZ);="L$R6W*I-
;"FXJ5VX@ MXTP-:CDOAXPN22&EAO;%+I\;>US.$_MYC)AY
MFF2"K9._579._O)7GC2:UR&4I;*K@*:W3CV[U/#D$)/:E(X%=?W'T3+^? MYO8NUS5^I?G@!E@873
R7ZB$$G!RS3!PHE&0$?.OEQ$NQE&G8$N @(YD2G;+ MTU0# NX@I&"E^:%IJGVP#C!
[\4MW@T5M7ZC3ARWG2X'7,;3S^2TN7:E:/650 M0/JI9KA4T"8(G(;J>#&H:/86EY\=+$72FO=GD=M1M)3\BFWT5
H'I:D:IBM= ME0 !:JN2&Y.^4D0'--:>_^J MCJ@%4[+RH14:HGBH1'/BP753KH(]['0MK,YI+.B<72:]S=1Q'=$[&5$N=&^)$
M/E1YN5ORW6A[7-H[C]Y+:_S+7'!2\'9"2-=6RN,S&:[=QJS" M<&E]; ABV(X5X(ZLBB?\V"R(%,/-_1?EK-
W62\1P2*N:@FBUJ@)W0ZM.^;'7 M*B=V6-(N;Y1)[8)GQ +4+SN!:CJF1X'1,QN>+#ON,:6;_O:U:BB!_:(5A.(& M7@T*
<_=J8KVX>E7!37[SJF=TZT^V6;#K!K>AGSRGMZ'; [RB*_J5=#.J$P MIF5,IC).+&+R;C7W2/VF6M
QVXA:ZST.+2UYH(R&+8 MD4O;%D7'&>MPDA-# C7H,G*#3\#B9HR+MOL#'3-=KLN[%-EEBPP*Z)I-S7!Y
MR]8$@;MD4_'2^+Z+#"5XS]NXIRAB:*RF ?1%F[4$.2#-T[\RWK:-:WQ=&*]- MMF,1@X>RS<)'V\-M#
<6AF(%$%&W00(!W(VK08,@B;#!#%19\K\")Y)FF$(*T M H3P&/+RV'@ .7_S$I_]:
[I(TP.M'DG$"6)?,64#CP%8!F&,R:I501AR)@B M",-+8%V$I?8D^^4H>X2-
V%CY^^P4\>%HO2,^('1)IRDFCQ5C\2@6"AB"BP=8 M_M]/WGNP.^SNXC2]>=^S!Z#S';WR:G56,-)R[2!K*;SY,&L@Y-
"!UHK3%H?: M1[R/$_;\BO\+[>H3AZ_,B.A#-38.H@.A8J09XF,Y>=[M-C^%G#@'IEOT0[02 MPUDC'8MI$Z4T8P_B?
DF"#"_7:]D10PH&=##6L%R>C"4P<$=C)3,-/6 _7\3K M-56 H$)#_B&A-D)?)N_9H@%U2+:718"<(09+#LQKR'-
R)]Y1@D-F@%F,WBA6 MK!%BQ.N' W4S>R_)CO0%F_*.2@8&=>6@9KFZ;&C" %PSJ)B0'! KT+PK"]!] M%%DWB?
Q;LK^<;Q+,ELM3.9374RUP852GM7"%/EDC3JYD+3FST;P1WZ/.LW@7 MI%FP>O(TCU)D4$![
C7#Y9:@"0*W(U#Q(NG^6T;*@XAUQF7G9]KB+V\&3):E MDAIZFC]!;0RL1:IQ"[D=&)CC20[A-
"MKN18"#9J4304LW"%:R[QX2)8"@AR" M-9Q(7'1(L&,:/7[%M1 7+3@D_IWWPEB\,G:D 9J%W$[B6G-
Z.!$S.>A<>1U'R*38NY2[+8OO2@(7>Q"B8;VYE M3@ =V-!(.>J[K?$*HF"Y 2WEJU@OX:'3=/J)47Z!Z4^Z3T3KV-
!/*TQ<5A K M8A*.)@3K);IXK0J!9K\9*KA0E)4C8. A3T*!CY'Z1ZOV$M]99A# PND%";F M2\50 4ZO''I.E
HR0P+&F!FXEOIR&R=XY:7RW8 .$%93Y&R?JDD="DQ'9&Q(M:E1P(.CEL#/C *%>NJ56+'K";T"AVE/FRE!L\Z
MH=JO@%]4[G"$GV"^JOY0P;\KV%KSB9Q<=H>=\MN>_ Y4O57&9%FX5?QQ^IJM MS=&;B1(M"*%*+:(IM3O*R]W-
M8CD3,+1-+-@7M=GI.9.0X3Z N1/F0PSA K^= M.+RDF1=E@1=>QX>7;/Y"C.FGF"@X>_&11+0 5! M(_P7[*ENM-H2
7S]T$G< MVO.&5A1@WB]T8+$9KJJ(($8%>90,8G103FC&_"RQ;EIGFQ)#OV;) :.U%Z8]
MFS$J=BO7>)709A2+Z(IX_GD4';RP[(EQD_=KEQF\)2+0SJ*56.5^P0H+;A?0 M@CU)OT*.2Y<.ML9[#%WH28)S
E"K[S320:Z1P!+V.=.4+Q-I(]N.'J,#$:AS M25=QJY-'6PJ 9XMNK#;W9B4=^J+ =][?C".W:*>4%N+$A!Y9-PYX(NAO/K:/
MXHWJO?#)"[WD^(C] \\W,LV%&L\!3V022NI\5$AN^!L]=P9UBW-DE#)LE)3H
M+KB47J(5R(ACHPK=%:\QTI<;PS%0'[;*L$_=VY/W2OS0]0$_QP_>D<@TH/S*L!*S;0DG@P@=]!RCG%+E9U!."]+=P'WG,;
@=)R#!ZQXN6: MU5Q@A1K29<+^PEUJRH0\<:L:WS0,72"/->2DE'YL"*)PWFTX[B59"QE;?H.<
M./US6I7^2%&8HX4P1[P\RKR<(_[W? CF0LD[4 M7/"@YZ1+H^S\TBS8T>M+UDSC*M[MXHB)_:,74HDO\5,"ON=
(7R$3+:.N4%4//E?"5$D [[XA><%[BB%VMIH0>V*YN&&F? M5=(28R/"4@E!=W$C?U,NY8!\3(>?87C'^3"2R'
W(4.J9+MR # M@G,":FZ:CX98H2.V]/!5)8\OHB!:'1*RQ-"$$O1&"*!]G&;N'>Q:R)KO+W)8 M5BP247!
(VV[!_A7]'N1;T8\1'M$FH66V\C,9$VQ%/M HX9\JOFUKP28,\#MM M*ZO6@[MPB]W)TL5+AER93HS?35/O)'9YF[2(4-
T!.&'__60B'_#TR^7>>EHW M(GLL)PS@V(] (;G $%---1Z#[F/F' MT'S+Z7)9;/<&;; =N#-NN6>P1W7C_KC3
J1.6CBG_<20T[4\E;CDI>VQI@H=R*@?G*B2@)\W=MN"DJ2,<'"T3E",@ M"CW$^UU+A9 6F-!".J(,S>(2&C!X1=
6EI"HP9AUI)YV7I+]%'IIBFFQK,4O M9,?T<^#C^-^QY^^W<813XN>PICAF6PI0LG4WL-*\ MRJG@"
[CKWZI!7]4];D=)T;,66Y)#2@RV:9^]=%HAX)OXC2U(GUPY_(JC SW1L8*- M-'?E)0PVO+T:7L6;**!__(2S;>RK#E
=B$!EP745MTIY:TMA^O6B(XL2G\'H M(($0JBBAI"*%.*T1CV^M9%*?
[3J1.0==59P*.]!P7%^UY\D.&COBM6Y([J4>\XU6QI7ZO M>$Q!N"<@R_43^==TS6NY/V5>DEU[F:Q\Y%B#P-
4]&6>ZQ+HHPXX 4C=E#!%4 MJRMM[Y@/HUAH9ZA\"\3'8JG]PF@SQ,9#=$ GVF-8S5]UL=7G*XA4'+>JIL"M
MS:8BX:Y=G/+81_&=:93NHN3NF++.%?+^S1_'\K0E><>-O\44#;J8YK3==1?6 MS(^Z@#ZXT#']RYFOD4)3RBU#*TP'
U#RK4$+-,!GORWX:_80SE!2OTK95^E. M2?Y2,\G#4'M!6>-R#+"GO'WD-D36P+<]PTDH_VC"9QZG<$J&
(Q_[O[#N;5F@ MO557PH(50]$S+Y0]D0,"7*EK.9&4MN#@Z*V$'R6FB'?Y'>$\(JR]XLTA\+$A M)U8WQEC>?
RNM>^KCVK1B#ILW"7<5WE5L0 M)Y7),TI^7T8&\A(_9S@W[N,S3J3U7+3@4)E[9A&J-#TU+.";8A-3W=I&ICG9
MTD1R3PSVMJB]G 4&*K)>"QQ$D4!S#[O+# M+OTC!/Q!X[AF]HJ3EWB D(E)VJ245GY:F3Q5C%4<$=I-
/R3!JG7(0T'$P>B' M5ERK0(B4@ILQ$0VKFE?#O(I,5J&1I2+@Q:O.)RS21O32.%4.B%6?=J;2!MB-
PIPK"_>5^%!W+6OR6NX"K>[0_< M:I;K&R^A+CB#;?1&'1RQ(W(((1!-BH#"(-;+R5&^> E63I#/]$26\ FUU'0$UF8?
-0VXX@&9!RQJU_BY+<%K9*Z MPJG1FDZ '; A*?M2RZE!PMJ+A!6=E5!P6N(A1W#,)FR$H3 T83R'J?
@T25O4EK.A4OP!'#-XQS;>1I2Z (XI/:];F M+X!2G+R:=U$2! <,0"F&U @:T+"&H&!';0RHQ$ %RDB&\ ,7(\(;6K/8RA1L
MI;DCWO_'@G_6_G;YDI+!TA6.H$,63RMBIX<0+]=DF:(W9,<'PGN6M_K=TQC?
ML_<2JA+4[=$!^]RV%+'6X=82%Z:W;2OF9+4]&-(,,32V4R\1T:\,%?@5A5*N
MR^,S&5;S7,D*$TXG6P@FJJ,%&H@F6O/5](UQM+FX"UYIHBWY]X#H')JG*,6CMBLRJ/11>"M,!_6O*9B5_E5H;NG?
*5_MG. ,4?Q1GW0_QS$!VA">/WG1 M@2;7'VB9G9(%=9J>+2;0;6<[P!%E^7+.5G.M+EGBPFE5*^%$_;)"!-
&T%IPU^X'DN*>7%P6M,=;)VT,2 M!<1I8G%U5R^.6G"@%=%"A'(9U,#"Y?08F6I6'XN1C]=!7B''>_6"D)XJH3)S
MV@M08M0WAHZ>2NZ"""\RO&M]*!80'3R3-,2R.I*46&Z=2$[8:AN5H>B(X:N/ M(X,
(9Y%Y.HZ,CMH6NX1I.Q$YDH,V51/'RIX8AENV)+#4]F _P9U:'PO2278; MO)/-%MNF&2\'ITE[7)&-PR&D]R;7].G-
F!;"/+G$-,_$,'FNSC)@K_SA[,J MH56Y7X.1!TQ^''B:OF/]&&28$Q%0[MR_C"RR%#49RA _U+$/&ZX_1Q
&TN'+%7@P3YY9#2 MVM8I?>3)'Q-BM*%Y*+S#<%Z^GOV%$@NB_"4^O9RXC;1!ED'&2_9'H/A4NO0X"MT^1L2KN-
<3? M0?8+308D_18M5JNI=O@M^1VS>>(=,01",KW'TI0>!0S0>JEBMEP43P'@5CXY M)\UM50Z&
[K$YNV;YIV04*F"8^TD] M-PH-8E??)<+(KNU.$0/7P,&[N ;3,C=W-WI NXVKNS/$>.O.XVZJL+6-SW.4 M=?
U6N2/_L/Z:/@3(,$OO.[E@3G7Q=#,:G/>V%4ETXB8<$%]NQY3T;4>&\Y3-
M"M$R'CW5MKNC<(7EC)+!H&;IEX3\LEROI7?6-FA0&0WV(E69#68

O?# RI9X:,V-*63&%%3&Q.(9 M8%D2G2>!8R*E;V#HB.!#+J3=Q2O9![YOTT@@1.W%*X#V7E))R,F5UR"VY5JL
MH.+:ZJQEL_5Z+=[SB.3 ;[D&FX'F?=8$('9G-=[_)X] MO^'P%7^*HVS;X5AM1=3-I=]^.FRW 6:*SFT);%ENOSV0F,8,4>*
(4T>YF4?1P0OIL:Z:@OQ^#GW]%^PE'W]W3EZ"WX6KYD,H\U_=W8V?TOF?+"YX\3.R>)%\?L9/*5T)O9> ML3JDN5.J9V?
MFJDP&OL?SL_8">QP4\>(G96Q"^+W-'8">R[&7K(ZJ+$3G/,S M=O54&(W]^W[&KKC"!/NRF\D.1(N_CN+6Z8! MM*8
EQ30D=5F,02CGR](*8_$,$UKULR$FBA%CA3WK9CO1)!:B@!YE2,(Z&P&Y*Z%.<[%CU
M6O@ER+;Q(7O$GA^$QVM,V[(%$,G-B$Y(T31#E%)))$E&9N_N,].DB33+ "\K?* LA?_KI\BXC%;X.] MI,2HY/?
I=53))%6ZQH^3:I%B]&9#UP)FO%*?ME]96LI3"@'\I9NE.24_PWUM M;:E-X7L/45 38H6[,Q18ZD?
RK%:ZQE3T7.WN0,LU]6=XR%7OSN+)B:LFPK>X MK I4G*;\.*YM;#?P&&=E1.;)ZFE5Z@'.QLF&3%X@$+Y)%7TB]B
M;7Z09DGP)ZQ8XO\(5R)FP,D3B:%Y;:IR M>M3Z!8JL%7%.$[9LS/BS +OQ6A+U2WC,\)ZXD4-"&9R_$-WU5JJ-E $';F-D

M)8RXT=$B@&Q<+#AJGGO0Q?QUH:3@=CH=A1\@]E?2^[5
M]J<7HX<1"N%996GK)@R0^:F8+6WO%&#Z;K=R#A01[GQ?"):K^;3:8O\0XN6: M7Y%_PMDV]JL=3O-?,;[W=K+N\?
W)P>0'#C$%13)A'UJ39Q[V9[:9 U$B$W=% M0,&R4U6*Y-530@PNFDG1J%]>NC)]K M
IQ^:=1S8A5=^)5C@)83[R_&&,K\^;=+VNGIX? 2!JLKGHVC5F<=-)!"FP4H M55H-"G?0,O'4T(M'VKLF96$DFC
51&O:CXMI.6WL1)Q>'BG_)_HA37QVC/: MT,\56PM*^&<8B*.@'&?DP\R=KIF%' [^4--@6G:PN0-)]S=P83C@W+G1":(C
M_Z-L/O+>?&1Y4+1FK - ;3-D;%9["_%7P!N;)AN:%HEY5T3J7MS""2#QH%F]K@3/T1Y*V$HDVJ25L C1ZA=OD_4E,8)-
YPJ\X MH04,V3;SHT+!,AZ:V58%E&&7/XU2M^5Y-59:YLU[MAB.?;0/%=>H9)SM9'%
+#A2UMA"AC&%K8.$BVD:FNE\GXIPTVN?[I+=B)T'+
MH$#%OML+7&"@QGZ/(D%&QGO((OTF+AZB6NUMW3LBV9^('#H J9:$S(M\+_%9
MW$IM%3F1<0UCS]X\W$3:]J2MI-.==Y"7H?\X1!A]]V&&Z$(VA7!DNI-L,O&N
M\8KE5J#O/C(1OW/1&3QX1_8>JM6$5$BN.8=3<KI-&94#Q-, M;W+)M@(5M,$;'7<2_1%3'&9@5)@GG&4AW1OE5
+H0Z%&ET0VB*[M9G,J\MMBXM(L,5J#,0'<3*Z:3D3#6'0]2&AMLG?4@(':\AQ M#;-'7#14NUP_9?'J-\E+& MXP
".28A:*$<%#!/4T7/34"8&1A.^&.!X;U%: MJ)#(N?0MB@X03FG4;(O:TH0"41,5&T;]<**R^A-Q=#B=\\J*"?
89;_K2-.@R@S:*9)46MU5*K9HCCH0H1O,A$3[E2+E?*Y?+,<@$8T(.7 M+!.V$?
%9F7"R+V5R6LV(&MD5@S*)IS8L%:8#!J9GS6QH!!_1. &CD/>9(#2X M 3IF=)UES8UO3V1UH(,:XYD]&J./Q7"4\M)-
]'"X84> RV,%DH=[YF_D",WS MIA=1FB7L@BUEM_[/6R]:[EG(YS[F3Y']7W"PV9+_G]/[U W^B9X[K\F\E1T
M5!L#)U@#W-*QQ\@]W.OR7Z.+E4SR-&Z^/_86Y:IEP M@.Z8LT-[P1@"]^?N;>WF77">*-!?
TKCM0Z52R]H:C#K2&7I&\\0-X@35PYR7 MOS/)H7!M+Y:N[47FVI3.:P;:]P!@+IF[BAG:E^NU)C__=^7B2_%VTY[JN['P
M!7C)?F?UL3RH"X=RBV"J&Y]"67H=!C"T"/>EV5@XDWB[:K['EYP1_FF MR18;,E6FE8#UQ!DK5*
TFA:*38'%3K*\6?"1:0;37_[R3G?;!*6?RI8X* 7 MDXK'5\R]-+A6O;W200,]O3(+4+Z\4H/"/;PR\=0LFT]^*K4#)95A[#DJU(.J
MUH(P!(EE@S^GZBA)\U,X\)CJF2;N'I(CSUU<_>T0).7^@+[[-.03V*/#+9MM M113735MSM
M=@$K1*.QJ,Y4@);5[@*7RVU[$G#+<%=>%7V\5B4*TTAA-U>M$C[R@]> OKP@ MIUSZA#ICJ-&!/;^38D"M[Z*J3
\R3I[Q.G\"D(,3G\1UA:R7H(JD N;;@)*5U< M?Y)P+F\HWAM:?G_JP8*
<%CKL:2QIM0WP*X_OT>K(%66T*TG36)Y'C$1@$7D5 MCU".
<+0YJQ$60Z!EWG5!/*]M'[-89SESU0"0CG*TZ6&H5,Y2J68JQ?F:: X' M 6Z2^2F(XH3=YO."N))BNI?'!T]3JZP5!;@#6
=!Q3-8"W208UAK_IH.DGJ,X<)\K:W\@ P"^!6VT/VC^"G=W MJ*O SV-AD,T"K%G]Q&^\>""U?\. EMMPGNIU&4>'E-
_>W1(MH <$3#2$%5]? MSS<)9G]LL]:VH^O85KS+I!@WXVV(NK<=;\^]M-,NKR6$WH)L2S9(;]M@M468 M)U>^4-
K(HT1\6K#MA4![@8_H]V*1C&(DNOORBK%A\K(EYVV
MV01=G4Q0.8B+&_$!)JF0/4YJ^C.EZ\PW($4C429.FUF0XSOF"G5"&EV>#-D]
MUZ;F4N+"BCTDM;&:X^(>BR<,NN:46DBH<3X/E>2B'W+1P;00^$;\B%][9 4J M/G&_@WM+9_),L-
)M'/I\.TCSI%HKLIJ&8T[%)*S1L:@(N.=<])Q*]TA9@8*\ MLGF;D!8'VJMM(#$U7J:DA/*#44G+14?3^O,6PIU^4+BKEV5T\
[XB>^X@VI3L M/WO)!K]<,$%M4KI4<;HT5N6,[UC:3U) M+6Y8R.\E\16?8PH^-4YN56&
(#H\'KWR:0GV&E\>VTV!R8T@@!%N@=3B9N6#B9Z]_ M;^!KI=46^P?B=M?RUSS<.5?O #Y'/DY8*A%_Q/- 9$TOCS?OY/
;Y.V-'^D\ M/5-GKKK<&'E0P.NO2::S=J4VZH@PUW03B-0TTWQ05N)4\;I/4D80'>C@>48@ M'QZQ\6?
T*KQ@@5\I(L8$^I6Q 5PYE;.Z(,R_8_\Y9AXL27E4ZYF,JZG4;(<* MV(JNA6BUAG06>#!MZ:P9:R8Q<(W,<>F2P['_.]
(#A4[&$84ZYH&[78]\BT/'1NQP=56/&%BU3_*E)Y%I9GE(4MI3Y<@VCR2 M _=MG- ?6WV^_H.YYAB'FKXAR\/(1W+
(,0XCRJC%7H2!T:]T:)2//;)?G*"< M2ZLYK0*B.?87X\.X9.//<3'.%^&YZI,VDM/B@YR[OQ*EF,I5S1 ?U8%VJ%/-
M9$WZ&^ZP+[V0WC0ZT3<59!XN\2:((INI. NO/6X-ZR^G4O7X]:B_@*K3[6M+ MCU4^\!ZSY#^R
5OC(#LD8,]J)YU3!G3N55>%;S:R6Y*.=+Z^23-Q0SHHR3!G MZ:64[JYO'G?T^(KM#]6CC1B6<0>$IV48JW%/>&@N!"-
T4C1\NT8]^OEOHEA,\4I!6 M-_19;K5;R39=0+>KKSC+2&^'B?\'BO_VG9USBPJG??I2#++8#,F!PPO.\!/=
M:M$9;G@W%YZAY>NT^*0#MKF9<@GJ'[0>??K/(Z)MFH9"4E"'VI*),_:IG:9[
M4+?:BH/S]*P=1!S7N98,_0/YUR$^0@%S[DY6<@]W9!^DJC%,JO>*^=*
(Q'?:O0TSFD#%H[8!N;E/[2S1JO+D:'PD,N'!1!SG# M#1?XB.GK5AH^O0O6&'W]%^PET.T?F-
0OYHEY:1U=+J6]HDT%R#0=O)!V)_R] M[A--S0FPVX29^(8SG98-.!<+(2?@15_E;P36(/N6NOF=G9)JZ
M(B70I(["P$6S5"N%I=GW%?1XQ57:ZL4O0;9]Q"$S*]K9YCF^B;(@.THKJW2B MX(@NV0FJU#(].KS^V?
#7T$P1@=9:X2C#%%=1Y"%?QM0YKZ^#!*\(3CJ/_$]> MY'%G_@E+WLG:HP%E ;<0J4SBM<"!R\&U9JZA4'?
8_D3[A=*@_[!+Z@@LF@B M&O5)R0XF3FAM_)0NJ#Y.@TWDL54T17LOR,.]G I]@]$S7$4Z3,8OI_$_7)L=>L;AZTM-
P1Q8:WJ$5-4SI@JI?APIN-N) MD_.]Q^DQ\4/>XW1@XRSO<3K+";A.0=WCV#IJ)SY'PVE7ES8K8=;(.KRC;8->
M<4J!X[.N2^SCB@HX3\V@__AF>%;I.\B"G MA;:#G]=YH9MT8WCBO,NKP IBO*",,%/YZ9*?\X^W##3WGZ.Z)ZW?I
\0A1FZ M\HU1[F[E!UQAZMQJY@S].?H7U!F*HS.LMC.LZ".4B%&ZZ6?!3==*;X,&?92W MD/__%W+D"XU6XV?D#Z5?
=@T!K"_UM-,^+;!=5QXP'K_$4U./CS7-R:H#@U_8 MZ:OS# ">T+IF1(^G\Z
MRTLHH'6<((&A+]?/MIE^R2UOB8/V^C8#3MXVU&O'L?EB_W3M9?C6"Y*?O? P M\5V#)4M?W$U#JT\QP3V#%3]?
XBU#"\$EC]_V1%H6'B!444:1T9H@H5>*11^X M8!Y)"(1(0EQ%$HJ3[8;79$3^(:$G6$HLP?LXR>C?N*?Y!MV\K*#CU-^T
MS!R(,RJ(0#UR0'215&-"#$^^3\CRBFBK"+&*^1C+3<_ MTWRS25@O'<%LG%I3J0"?O.0WG#$QEFL&EB[2](#]LBS6-
EAM%^D-/XSY2[)= M>'[#X2O^%$?9]C3N[P)#Y[:>#OD9^J^F0W!SAFOI<&)K&C?S+!X4,*)Y^_I4
M./;L)'NFVIX%_*FAIEQUOR>=U:5T^8^@=:6Z6? W1]K7'TC[7&2D1W8YTE MC!',0_(/N-
C:?!.'%ESZI2B__Z"KKLW7LEMY":4+0>6=6G[!@L%?=L@7)K#[MA8=OIPG2M@G#GMOBY4(L]1\G6#K
;#^/I:!CKC5<4+J,LI6UL0;S&]IJP>TT MZ>T'<74-Z3I=]NM%VQ$<7ANZB=*PJ]SCL!U:>8:1G&"(N7F,8FEM_'!$H0T'
M)'$KZ.Q",=!TVIQ:RO02=K[@QP[I486/*1Y)G/;^ VODNK\63N?T\UOHNSC: MT.3M!?&$41:\X@M*SC)3LTS%JC6AC'=
ML="*&$%!$^T)G<)CNN4PNTZ#;)N<3X-V%MSS=V"*)O,?(W7.$F4KI\6R:Y* M9C<.
>GE\9DPMUQ+R30+Z$\V*ERZ\D03*N8GCSPD2$+R)#(U,Y!9\D]NTF+' MMIG8BJ!XT$7^E8Y"-
R_%.'5/.%K/@C:O%9A(3")1H$J<4AKUC$E;&XPQ . K M@\&GJ?:"8##J,*\#!F9_=+L;L1W#$WV5E,>]G@/L/\>
<>7XBNO+V0>:%P=\9 M(Y^"$*=9'&%UFX9>Y* .#OVGH#I!=*<%>)3HR[0N:A]$ZSC9<45.6+L1NG^,
M\^=P/#2*,C(J_<<\WSH_2Z]J(Z-=,33866/P>7H2)B%M.0NPZ_#/A GR)36; MXAHWHH851F>H0H$J@79L$-1CQC"H-
8A.PC^ISJ!$%Z*QI*4IYGC3 PYT9K1A3 MGPO958)X--SC),LK0)3*5^P2X92OJ(Z1H= >CTUTWB;I+T,!;UD?392S8X
M2]5&8XT*9#PM12N-R!(/SIA:,:@+MF@C!QFGE?>>A JB]),U?]6=9Z#4\5%. M
/(R%E"Z'CYC'D4'+WS$KS@Z8*.;T$$#>0:S *4S4(/"V;^))YW)>PP7)1S9 M$2-O+1!'0#E&H>OH5XZDWE5.8-
(#R3*>W=Z\!)GO$:>Q":+T$I,]%;Z/HRLO MW5YMZ=BII46WI0-JZ]V$/O$"[8A ^XNY4;.^1\/
F"=RS6SI^8%1/+1W,OG7;P24M96T$".H8S M?2:_IMLX].>^S^I=>B'+-)!D";.>MEUW%A]"_Q,HJY4,2!G*@@TY+Z3H'
MH0KG- =DO_D8E0?G?<*2TFL2*.>!J1Y.U"/@"M>9@A-@39VZ&I*K+K'>V8LS2W M5["Q8_#SR%_N<>)Q=LJTL#R-
;/[J!2%M:6L*)EJ3<2 VWU)D:9S>DH8;,?M6 MS#:4M7A>[Q5PM-I+/9)/J\7&U0A5$J##7G"X":J'Q0DM)!!#);6R238J";IR
M%0"G("/GC#?38!6B;J*/OJ2<<:4AP!4N&WRF MGOI,]!^)U6EA78AX.X>IREFF]U-.GY.Z!#
[FE,V346;U'D^MKLW5%I^V&5#-D/;8O\CF^I1)XI\^HQAFQM5,JZ!AF^H 3
MFE#G;?!R_0MS!N2/MW&B>>Q=Y+;*YJ07.2 #'F *2FON00O.M'LS+>L?D5.D MR?%O!4W6I5%?QZ$@#&74H\
[%_<:^S^Q9#N"X^VLU3:W=HA5U]]UE"S'Z M&E!>T&''!D,OO)Y#%$<7*UK/856KZ>&ZDQUHVFR<[PVZ1
OTC*Y140P#5;4P MD*06QCGX9]?4;K(2H>K]MVPZ6Y-PJ82H651]25$UOF,E1DV,&MZ@VQVL'7Y5 M. LK=\^+!*8?
69<;4/LWI4_9@\L_'U)8<@RK*V*?Q44[@ MYWOJ'OZD?<:GZ_&.-E_ &7J\<_.7=%)V5H5@6ZC+D)=8;2#M!^#K'%
[@2%EUZ!&C5 M[[W#P);P2+-#ENO/*9X3!Y 1NTZR_$HUK^%M-1\V9%RQ'7N1U49EIN& M=DR

M:39#1NDB7E\06H@1FR&17%&T'OA@.+CX(3/@59Q";T_KDO',,>S/B=_R-O@Z M7YP?R4J?A[>M)LB&C"M&:R^RVFC--
!PP6ELFS49;4$(Y*5300I08.59R12Z^)%F%7SL,E-2,HX:KT9D:^.5T'#/>)5,
M=C#>DE:^JZ347#9=>]D;IIN4HF8Z(7ODKBRB54+9NL;_Q=171:V89 V);3%
M!,I":2=8F6IBAP:73]*&/TV259"305_[.:'?T;8<\LFZ*"6\ M%B4\<2]\"P_:LF\8*54?;TR?<_IS'=-CE;WB-
TYIRET0X46&=Y;+E@#NC+XT M1-"H3 GK@M:<,&.Q[:$8B*'T\S>*_/C(<0?/[Q_W&>)(013]RGV(_6 ?8
MOPV]C>P\8,8!.CG;"E,>FTT(<&=F.\Z:)2\)&J)X%Q^1@(D*5$1Q@<[(YRN2 M_G@\DEQC6/M]'"4=#-X*#X%1
MI3L53/P[V2#\]N=_*OZ%_.?%2_&?_S]02P,$% @]H$.6=^6CB]F3 M15$% !4 !V=7II+3(P,C0P-
C,P7W!R92YX;6SMO6MSXSB6)OQ](O8_:&L_ M[$S$9)5M^5HQ/1/R+5LQMN6QE973^R6#)B$)4Q2IYL5I]:]?@!>)%P
$2($ M*<>[[W2E!8 XYWEP !P<'/S;?WRL[=$[\'SH.G_YY?C7HU]&P#%="SK+O_P2
M!HLOE[_\Q[__KW_ZM__]Y+7HU^/1U^^_'O4Q+7AHRJN,XK:.OGU./WA)FG- M=7X?7?
YV?/K;R=')Z>CB]^.KW\^.1L^/:;E'U+,%K"IH0^?/W_'_>4/?&R$) M'?\OOZR"8//[;
[_]_/GSUX\WS_[5]9:H\M'XM[3@+W')WS]\F"O]_0D;YG=C__D^C4:QHS[7!"UB, M(AE_#[8;\)=??
+C>V+C1Z&\K#RS^\LM[^_X!<-U=#X^PEW\/[<)F=+_G3C6 MG1/ 8#MU%JZWCA3TRPBW_^UENNL4;N?C5]-
=_X9_^8VOD=]D]/VW86"&O*P "O[*W/$VTU-=GPT,_KT 3<.6T/%">^JDV/W1GRUN
M5H:S!/[4>0U<\\^5:UO(EMW]/43XUQ.)N_%VY)MM@!=1N":U:&VUA([AK^YM M]Z>$SF>:DM+W6^B;MNN''D"3$D0?
>/: CS[%:738M27W\ 6\ R=$_V.Z2P?B M3R CAQ05>(89^-_1#'P3^H&[1NP4Z+E0JY(E>G!]_QEXKRMD,P2ZG*\FN4]3
M!^DC<#T(_"<0"/2J6%%RO^[A![FOL\SO5!J2>[1')@KQ[7=Y?8!FL#Q115& MJ:\ 3S_ YF/J3!"/H8]F)D%8"?
4E]W*&9DQ/&-U<+$:+2:')@%A?=B_1S+@4U6"VDNRU %RN@MGBFP_B MX8_F[=HO$$;?5)H6%0U))N5X9L/_AXBI.
[P;"G2TW)5]2O 9[0&-<44RFRE MNQ7AW'BSQ8@AWK;2E9BP .3JZE9EPATDU&UCA2;<3V8KZM9!POTDU%6[)A+N
M(:5^*S._<&?9S;2Q"A#N,K.55F=@<7/+U9SZ&>\6! :T&TYXNT;4]_>K"YTE MFI9,X,GI.['![N9M//8,9_LZ=]%.
(:EWO7TT_L?UGCW7"LW@ 3K %Q==81^Z MUQ::H%X--&
(FV$^$;8&Q!*VHB/GA[O0RL:RH@&%GCD.4*H3]185^1$FB\C>I M=-6+>>4ZL>\
[\TO\\=J+X8I6U:V1\:FI%=I@MLC\41P<[A;;6$^+=Y_=3!M] MEC1(:K3=AG=77!!V,^KV..
(])556US])/.%N4>U^+6OV"C^)RU2C;;722<)* MJ%7%>*4'[\G?OQN>9SC!=O9F)WY5";@)?
$/AJ8&X',3:K7@27L/UVO"VLT7T M\VP3K0--M-V&P59UL\!'%YUBX$P?F+\NW??? M@&GA<-@Q_@\LQC@28>KXT
+>W#-P4.\$3W++.*BJW/=2F[:/_S%&@'%.HCU0.UEU,5(62T"]5^AX07 L[C#,UL:
(K#?:T<9L6B_4222XH$S-..!UH\;=]#&SR%ZS?@$< I%ND7*%R] M3\ XTP*,%["$6!8G>#+6)*-'*M9'4#@D2(Y[XG)2Y?
7INNA@1][7/ MBQLW M=)O>^-:=#R9M?H(K[A "=H76@S#N?$QM;!'8P'CRX05!I)2OH_(B8B28':I
M!683RT+*])/_0=MD<$S%BU"VCUCQBI'@=*433C?H/V?>W/WI5*&T+]ECC"J$ M2#?11SI!%-GM&8Y'>H?Q?
6PF3H7B/0:+1Y(4,9+?HS/$GET_,.S_!S?,U0:I M<%[&R\OQQ;@O:%7+D6+5M6<#&X&)!PP*.MF?
^X5'9<]3!$C^BS81P,DA[.>5 MZ]"WO,4B_4*"J_*O'9^\S?%I P&-8I%^H<'5^Q2-KCT0R2G4
MZW;]YMH$*'*_]PN'ZJZG(/3%VY RZ^[#C*)M*.XB4K%^0<O@/IDX L%CP'=P:@9'(P7#9D8KW3! M25+$]/
D8,>^=X.V:DO7VS(/+W:E\E)=78[/+[3'IUJ]."6Y#W0^S-8)9>UJ# 22_<1 M3GY!4EA)7@=]87U= =NN0C-
;J(\@5O8_Q:YK?T6RIG+7:S=.E1==GO-G88"3 M1>(]#7U)R:C41\R$Y4DQ)'DY]!U_-P!?_;2GC@4^_A/0AV"A7"\1Y1 A!9'D
M'-$1Q&3U?]]T[#_!@R/'K]&*YK3P]D16GD?:PRED!0IFGWQLJ1177OI[M%? M2(M52LE^82DB1 HER=VB/Y1QP"4?
F)FR?8:S2HP44)(W1D=)T@T*Q+/-DBK MH-SO_0*NNNLI6"1'3%VP_NVWDB(>T!\:74/A2C7I]V-N7J*W@]+
1$E78@)@.>#!RG&M#[@R>J."_="6:W@%X"/ACF/ M> J@W_L;BC-6.SS
V>%Q1B+T/S@__[MA(R7XD^#&\+PMVGK_8=AA<7*H/CA["PC'MY(K1 "\XW MMP$QRG>X\5]^)$D^DCQF_M2Y^S"!
[\\6U]!&M9?%#19?I<&@WD!<27?^R+-) M\5RZ"06^!3AOP':ZWGAH6[..CO\7H6.1D*>5'1;@0E(RK@/V==609L#;1L]/
M$&U^MLA@P.<6CG'K4 .;_NR!C0&M1\,)%TCHT,/+%K0Q=[UG8YODIR@/[>I: M@\&YB;R2[C4VA;
[Q&$_$3[)^H15O)B4=>[G'43.ON9/+TZ,.S[-D6(2Z,C/N M1?9I3\#!BF'CSXUT4_][@#-*=XWTD^N8
JZC$DK9Z.BT%GSUW M [Q@BU/#16FH_A["#9X=Z4M#5A6-B<&),6EN$)1W&(ZB?#Z]0D8Z"C68=8;(
M#7&!-7$72=A#!H:SA&]VDJ(0#8:[#],.<<#75]>U?D*[>$U)I.H0R5);;DFN M)D7;T7OHP \P'?
4C3@I^F3I@3A1XEY7I"TI7\TA4:&IV -T1L7O2B<7R2"(M'M5PP^
%&!:T<>ICX*VA@QWQ]P;THN.9R1J[Z"G6I79[0^*9&F5(@A*YZJD? *O"4=TX>?*3J20@JH;(YPT*'G
M7I&,M'S1=_0*VI.C-@]X!!T&'=)HH6=CBQ?1?'%4^<*ZTX '3'H8%8>LPV#" M;=)7G%MU74$$8MEA\H!?U*$X1I-
HLK+FZ%:!7#ZOI5.DI>*=YCX20DQL>\..LM[$+V&MX;1>XIDM#EJ# OON@(/T,,Y-SX WPJ!4')8K! 55)-
M/,F'J:GZMFPVL"L-DQ@U9%;B@^S:9G O'PYEW2"V8&@,!JOMANX< MJ&\E6!C+/.SJ &'A$RU>C[^&^$LXKA"4?
BCS1B8_&_-.>*&8EHP0A+#, 2XI ME

TLYD$\U/?#_>&H)S#@E(AKZ6+R_%EAP^?RN*)H+C#V+Z2A*8_O:+J?>9$6K6@O]@R\2!/5GE!:S4%RI:
[<"N*VNN5+/$PF8;!" M&^E_4&<:1HVA\X-+7@5W1G7@!7/U02E]&'RH7G\;C\($DA)JVLA&M%1K3FT]K]T9\M;J+7D?
VI0_>%S^]'-7R=/7^]>1],G],/LYC__.GNXO7MY_;^CN__Z M-IW_K5M_%W?0"H5[##?
K^.*RHQ./I'=S[).AGG9D"^5YCU_QO=)NE%=IFG32 M42FC)*^4W6'052)CK!+\6*7KX*$^^8 T8\^LHQ45!)!DP,\M)I4-
W2[N'L'Z M#7C5*[JXG-X >2[Q)(UT/8#'7(\/@6ZC1W?BIZVC$^1(&]>&#RP\;P'' MCS#\ZKD^?1JHU5I>RU=(R\47U7I%
(HE*4'P9H<-H\[*"XL$GC725S1T$Z^II M0=)&1*_;=,QQB7^;16+Z=Q_,Z%/C1<0;N<@B"8HOM+DY-W+A))E=_(T.GUX-
=:$@HD8-OW(^[B3*U/Q["+TD$)E$GZHZ M V)'+5$3*\&= Z-\C6$PI*Z@J>_Q2!_KT)@>3R"(\TX_T/?ZN3(Y MS9P?
Z9&#NS8%JD5+0>]]FC-9)PV]QYQ3OA1X.1[G.\?J$'HI!PW]!YY+O!3W MINY?
(NZ=1%8GZ1W1KP*!U&.10.K9\]W+9#Y%!3J(F8X-^*ZG'%'2E!H_QJ?C ML]/BG?A^A$9W/3A%U,LX[:
<+IF<\M.\%&731O_;(HG_@=[&MT QFWBOPWJ$) M"*'/M&):H2N TQY<(7*)."9&%=NX!O7#^8+1*I*T8VL:R6X-
<>WOPB#B?Q/9;XJ^M: MF97+W8=IA]A)=@N0.":,L$/_;8,(1,>:K%TO@/^(_LYD2Y.&M:06/T-H[)*N MDL&:I8*F_%?
7MK)::D#$JK8.@WNUM* @.Z(>=$L4RS/[#90>+.D4Y%#N.CXY
M"L=&^_8%]26'3(G!05XEFZR,A=VF6M\];W;W@OU/)Y'>'\Y!K@7WNA M*R:FDDLQG6QH?8"4NT+3W"T:,[:
[B2X9QRJ@[G(9=;0DA1BVI#VPJ,1#<7B\ M ALUMT2"/QK>GR"C0YI?DUIAD,P0%'^2OP$%ZL_'BV%I#!V*=!? =L+E1
M46N0!*DC\U F%_&=*??.:R#L$)57R:7(+NR' 1T<8SIS7@T;S!9HT8TT&6R? M;2-.<;(A7/H0JSQ(OC00O>EMQXIP?
IE7T:;KC0&]*)ND,T4 .4OX9H.)[X/H M,#F.4ITZ[\ /:'>#!)L8%%FD*4!!]NVN_5H9M2R*:KE'TW, ;#0YT^Z"<-;. M*S-
Y9[RO;)(ANW[W%.5[47B])X,D!Y^4LJX3:N(_J[PI1"@Y;/0KY&QZHU / M_)]U7Z_=
(P3>N@S01(F7L+\C&PR4NEYAHI&&D"N@8
MWC9:#2(MFJ@F$LZ.]%BQS%'V12VI6GOQW+:B9*7"ZWAGUBQ[1]])4RV:+(=N MMS"G+U2DK\M>&SXT*7
3RPX+=GX1);EA]T#5@AB2>H6\82/(7X[NAL4',*";:25^XY4N[1\'@E)'P[6>>Z>?+5\%?WMOM3)"_1J= #KY/7OX[N'V;?
MN\A+E'DA=">HV!.NI6H_SBXNNMIHX,X\>^X[1,A<;[_YP)HZNW.PB1G =QC
MRMAZ\8:TL@AB0!%W+#+$5W#=KYMD+0L8,+:N^P):D4 RF&665,@]P,N>$^M_ MPOADS)^[+\!T'1/:
(+>_G[MR+)"*3QT6/5O3H(*S+VD'H(Q YBCT?:'!,IX,*;_&5>>\=(%G;S[ZMF\"QR2^PU-1Y9,[MN:A)<5TI?
H-.*GLZOOAWZ.R2H+L!7O5"6L=/(X%;$/]O5L^Q;M@N-N[ZGV0L M1<$U4)R"Q^NT(%^Z4$!8
/C.>!^#IVI>6%P$IRGTV=NP\3H"W-XAI& :!$UZMH&X/FBSR--'6&56P*B\\,RF31 MU/D60!M/].L-LNC1D>X+6(2.A9<
ZXWM;@%X 0'Z,Y+I!HD" ZHI4O"%PV.@ M GTU]9IIZ;0HZRW=+D']]7QFG4%3K;X&E'B\%-JS1\,)%T@AT;O(?
P#'I$:H#6;2)3>CLMN>H:ZY[;'/$T-FCZ*5!- M4X^8) .FTC'Q (TWO&:H#@
2:T1+JNGIHN#5GH)8>2VXF.ZQGXUM+2=%4D]+ MQDF 7<1-P5+%,()?B;+C?7=&G2(,*E3-

:^Y*#\]J>R3BT886\3O<:_ITTH\M M/-\:/E]G^)2HKP:E036UG%?J#$SF"GV-F8K6-[X' MI"6UE,76-]2+@A=Z]&%7?!
OX;89HR&MV*;HMIFH^$-YP^$Y<=7-W8GY]Q!Z M(!?TF,1[L$)-^1O0BD:2Z4"
([FNF%TT.G>7SJQA2Q$NK8KT#9Q.7.N0>0,_5 M;.K20#)_ZCQ DY1%FUXP)_7%D2:)#&630%#^01[K[@= \O;6J][L(?
B(L*NU' MH?QA4*:>&N2>Z3:S%_)GGNA "*G8"K$V!:'??0#/A#[U%G-E/:TH(QEZPN172QU*WBOH^GGP=!UP[WHO8!-
ZYLKP 1J> M[GKM.I%N*A95](IY)>(45=[._XU=RXSGOL$C64"_#.#S! M&L#_/_:YOALVB"[](#5"$XT
_,/$L?)_R)1\!FAL6.4S3M,.K>BY+#1NG25X M0:/I;K$ U%59NYW0BN5-5W0:J$[!TP]]&P@J>/U)4Z8F)*5\V$1# (GD!9_<
M8VF\N/@Y8/(=2W.KQ.R[)X+MPB4IKT@+UQ\ZEQKK0ND#DFD##@^0O_?Z,MHWQKZ1]3@R%V,HBP)3U$EY
MBDH^-,I\:60XUFCWK=%/]+'1_FOMC[BDB^F#G;A7605PS$^<+?P8CT^NSKJY
M1E71Q2JCPEM=6Y,B"E'9:#12@9)3Y1;L!+Z"G[Y&*& (QF5#@%L:H:9&<5O= MOS?),:YI5?#4JD4LMG^?
I*>+IE1Y#M5+KY;$I)F0KJT:UXS*3 MZND)! (C\[0\,C-M_>L(M];%)=\D/?*^8QS#DU'KQ]51\869SB2I&J&L*MH.
MTDK=EP>IL)RJ,F2H'9KW\ -8^4AUCG%Y5AZ744.CI*5.HA#)E]^0B:@X?.&I MBA"_.!I?71R/CR^.+DXO+H_.NPJV)/>5?
P"+-*'5@&Z,%S'HLIDN^CGHY\!< M.:[M+K?I/2^Q:?F\//SW38[2-
FM.S[1CM=W79HM,KRECFZ^*M+.73.NTX4Y^WX"VU@L'V%9BAQY?:C[^!+K:@46<>0;#",7K[KG)/F/P-Y$E_IDL2.5%\
M;IU3,<@Y:TM:)U.F MV:@3Z/,W\>?C[C G7'8-+<=K$TT7)N8:T@_VT2)=>$8M%?E09LT-MJUULEU M*)S8#+^-
%/7&L'FB$!BU?IR7LYYB\,38PP$$N&<0Y!B4A9#!I:10WU4%X$_[NRK41 M"GZ\$WIR YZ!R:[XX^2BZ./I4A[^@>
VD[NO;J](ZFO#C*@ M\?)7, CXF!!A%;7Y)6ITE&NU_<&0=7-FN_(";'QO_<;U S\ZGW_#O4WOTG,, M_F8-QY& W9P'<_?
\.MOS*JO1L-7\F+K0QY9(PKEL;E0H3'&FD/.6 KR;X1C!K$IY+N.'6#3(=EZ%47[$"HNG>$E\VLXF/7SSP=]#?(L=
M!ZR*C%5"&->^M5'27#=W"K,25>;.H!7OZ#YDMC,\UQ^)Y;4)^8:3CM_Y 5PCG=$2;>8+'09-!&27E*=5 MIRDII\(_#
_B$,:I@[H(_. .+?B"+7-:XJY_6&1JIA99#]UHQ+,G\#.SA?!< M!_VG"3+S--
\.3;29PV*=%.TH2.NJ<:JJ>13MS>L;&A^='(V;YJL:_7/\T2Z< M1BTGKNKF?CY"QU@N/;!,1E'2Y4CK'&%2U76ULBI-
P"%&/=647UV 92=#Y 6L M#8@S!#T#+TI?BRSI[,U.#K'Q322<8'T.UZC(;/&*_NHOD&K1;UP\D_R5 3.R
M#4VI>^>]S9Q.HG/9:7DN*R9VZG*NDI_A:7S>S>+WU5P!*[31_G+7N^0V*)>M MX*V>H_;E4?>1/]R8$$XNF\C=+7J
MI/:U=BXH/0=V8VS*@[VF!OH9Y4?,^R0ZW"_*PYV6_*G!T-WB)3R72 M#_6R7;:05@-1-$V4@$B21I;=V2;N'FT5 O W_%
[,X'A+"&^F1]-A=?;1^-_ M7._&-GQ_\@%I1R$"+>15>*Q'!A,.E DGJ@V%IO)&+PKL)7DRUN#6Q3M+<1J0
M6M&2"DU1%>()MU8D C6+\!CS0MY4OT#3QN51?.Q#FD5K6TZFB&1XLT M,$7_23/VY8):>439(+K+LI?^\Q8
P907\+=TMZTX6-/,OYTDP!??7# M9+*_B6[,+LL;LVS*P2[],.WG'JSOC:',Z'MB$KO#'-WB#6@YJ)O@4%@'-%?& M\!
(5BH[WJ_)X+V8K[-3W*CUMX6E':0OW9"UGUQ.6$(34?EZQ&.S49^QQ/V:Y'V,TB OL3,X#OXD:D;L-:F16YO"%;
M'*F*ZNN>E)AU2]0(C.5>:7\D,#OSA:?.5<\Y1=;>NFG[$&[(Q"HM:#$&/$D5:H
M2T,RM/Q"N\7VHQ'@=V/XEAPU6M+2/C3-1%1'Y@%XN @Y46Y!8$";>^B?'A'2 M@E-2HB1-?
V9$(;3]HSB(>A+HI,GXEX:!6$Q4M250<+/;]X(,M.A?>UC1/W[$ M1__IC3)"&!.Y4%XP39X2Y=#]'C !N3@ D^C*K@
,1VC,%KF>$^..F&6U@D\ MB3Q\8N*I#Q.:.2#M!SU2J%1(.RS$U%K82?&)IQZ+^4]W1R'.A7P ,(H=S
(.&5D)I:2!HH]V[H<6!"*#8L2'@%E)3,I[O(MEP&M1?H
M_WF]O0:.N5H;WI^,"/:J:EJQH=9BL)&DC,/(SE/R%*1)96%&JE=5TQ+N6LCQ M$(!#=ITN*U1:&Z/4&?
[8R^O45H!,%TF=$7X)X#NV?DS4:<7S .EG3.P=XRVW2::8A)934%3Y.',J&DU=&
MG1!,9&9BERLS.-2JI5,^QS7;I<[1Y\0VJ&D-K;"4O3=E"LGP5G2;0+@D"!9# M;$>ZKZ$EOJ)0<8!=(;%.]I:8KQ_+P+3
%;7Z@7,%2@2<:TBM'.N*A>W^Q!Q8 M=S@#,02T@V-:T;QUG! IH0_2?3O@NWTPO2,) O&WLY*AC(33I9&37Z M.'D(RL;
(XM]H)4\Y%GX*,??\V6)W)DHZ%2Z7TAL7MHH+)*/@/QA(;_=%DNMYDY^&9T5_ M]:>^'^(4,$AST+5H-E_F-X9%0?
6JT>]),T5KV/C_/AH?>@/!4H?1ZM&Z[%=]=H9^W1C\-B T,F_9XYHRQY<6IX M/XBN=WQ'K8/98D%:\Q**#0-+
(>E:>52L]9MLV?<=:]QJXWSH^\LH^LXH^=#G M+3?F#2N)P1IMWG+3Q I(PX#AN*!+KZ?CL]+?'>
(U#=)ML,4AY=1CC7(Q+2G M@5/1N\TI62_A?0&;T#-7:<67H@4DQ18.KI!G?=O+HNNWU!2PC3/!6:"=PU
M/R@+O4G@KJ$?0//58-QX*9?2#M1FZ!16?ISR#N/D 9_1SQ89CPDCL(A85BLN
MU++TXN+U/JEW1D@<1O>$>K__RQS]EQ^_\4>V"C5;T9(I_* 3]OH2Y-=]9MC9
M4X[YH5!62[QE8$:;+WCDUWC6J%@N[FS]JPF0TJ!+V0X0RVG)!>'] +]HDHX- MVMT0I%)]<_P-,.$" HNZ :"6U0IL,= *8
M)V+4=;P3XO>L!T_#)-IY>,*,(MLZ,C-&+.BRZJMJ$6@HP,-X>(_;7A+WBFH]CMW6]:P5K;5K/%T3-Y 0]ZU#&:
M^54K!*O!(!79_2UE2,,.OA,EXI#[O>\!)?=)GSCT6X>BVI9.D]H5,JBT\4U.3&MW>/4R*?$*9N>UR$$P'X"P=0QW37
H2X4G'-E](:8C589 MYFK1)*T9K=VA^M<06H9C@NYC?)#P-X:_>O;<=V@!ZWK[S<=!=;LDP&TW5#I!<=_.,"Z,SP'*<"?
F&:X#J.4];?191!:A$5UQ6%1 MIZ:\ XQFI0RB.'RK@?4A-# L"C646U:PJAL8MM)HQO11G'O7V\?T39TY,%>. M:
[O+;?)N\\2QXN882#M2]-.@&1_(EA*PUS>@75]M\[Q2^^8'A!-"P M;]WP+9B\N6&0C?
X)@ZV)1/""'+9:_X,DMZ^6K8AK=] 3@_%@Z"J*((K=Y 62$D;D*$*^V)@.EL MXD?A$--?C7=$\-
L0S%VT=$,=L'=2HHW"TC/6)$J(M3 @EQ>H.2"V-! XY8-&#F3:L[1R9-E M%YJ0OP- ?M254"XG^O'1Y?CBLJ]8,<^?
^T!\:&AT"DW^IR@('F)Y 68[M*! MR:7M]$T2/_LHB8_S !G.]C5:#B7UKK?14UA)WF^L?%\XI\%)^:7>I/51IEO1
M(]V[CHU^HIZ-=EU#59+>_5]_%)U[C;RDB;?M:(V[B#0;]7%DXTYVF@^AXO47 M2L8#U)'/)M;A%1'/ M.4NT
$>=);I$RMT%E +#PEP,2&'&(??-8"UID1!V;I.[,#,09V\Z)O=QI"& M([6PWFBR@2F,1C$9!YB8.EGLTX9R^O,P(.>22M+0?
0?>FYN?4+7S;3R!(%I< M3/R];ZB&0Z.4I+&10\,!P'8P78XP^WD\OQLGEZ5'OO!BQ MNL6\&
(F@FGHQ$MG1H%ZXWCHZ_7^SX3+.K[\?DX\@6+D6S;TAW(A65! L1@V M(45N];MNH7[2O24UFM$*:(F8-
2$"0S,M^,9<&%V&@&MR5@=RH9[#R-!XT5G& M);EZF&9H38@[,74V81
+08>+6OA@8!/3@$Z>DMU2'(L*G251,VG()Q(1%9DM M7M%?_46<- [-6EYPBV8N1A)-
N1_1BE6U)N\6]=*U=T25^7X\O2X^*Z6A@ZC9C:E0OCA.@_KF]KXO2S:"WBRFC] +M;5 MBGZI0&KL?
JFV3*#F,#C35.!6TGQHXQ:?6!:,!9PZD:KP/VKXP\<2_.'[OHPR
MG3D@%_BXF*JB)R[PCDU%$W6+N<#E+FO:38!*"KTJ8$TKIA7: CCMP162K.NT
MG$E'<6Q4&BY#325.+:L59D+J)Z+&*:!ZA^9=,@U^CYX^P!F>&,%=E+*Z8L.I
MY,):2TC*%CS.8)V(@Z3Y;KR#90@M4!&,65EI6)#5$Y>Q4>KYGKQKW_.I9G>L M>*;4%O7RZ7L> E$X9>O:]TP+^
_0[M7PK,1N)I/==@X\8EX.1G&]$66#4YA' M1*54Z@_N)GZ,R_PUF5*&09?
F(JN+457MFXVNTV:>1WOVH"GLIB4V,@QN2)1= MJ?.VEH&AO1%HFEX(K#0J>XI62&@%
[\\6U]"V<5)J$C\J*PV(#_5DE958^?/ ML=G16E^IUXI66LFYK/:$"3_5@41\72$(Y!PACAX0I6\(M()11?2)$J_+C]'A\?E5T*
[7TIK$30 O:80#?P2LP0R_*78],KATBQ.+3E/4F MC-DR6Y1$6.,'PRD61DK;^8%T=GEZ=*;'@5,EFF7CHDXAK<3;J+4L.
(>]@PB. M-((?64"*C)^/:#[VH&%';NMPL['I3XM45=/*(@B@E;4$M60< M8%#=3@_?7>_/*4[$BM?
Z5<3(%1X4':HETR]H31X)[M&2VU\!ZZOK6I4DR!4> M%
FJ)1O@BU0[Z7$*WN0VC0^\]^IIHE1A4&3@DZZI^^,J)H0#EC@KLFZ40*NT M*A*@(GG%G.N1G[HN[#1Y9+D0F
^(J5WHW\,/8$U\'P3^]XG,7&B#V2+S1V$/ MPEEYD1\U-XK;0_],OX.7][F?NO0@H%E^ [Q@^VP;3I \Y;7!/BN$?
<5*GZN.Y[]'!'3EFEZ/&0/&N*[E.J2+BTPW@O;J+X*>!7?Z!X2PAFL6BY3@3 M<:ZZ \>^O@ZH#B-
I9OP^]!P8X.UM1D*Z[684'RB(M<2F^G5T6GX]5,0V5U?, MRWZ!9-?AGEE+*W"V%C2)?E3'GJ^>2SWQ85?
2DC4U81;@"UUV2=O\SKDR,?D4 M=-_P*&TY#GEL<.Q)>YIT]]W9(B,%Y1R3KXHT6YUIG7342"RCU< 24?'.N')) MQ-
@RI(.@F\!T' 05@ ?XCN> G)O+3UZFO,$/23%._@1:R*OF4@.PN< K&\RF
M,NMT*L"092_)D[%F'_T)MJ(5$V2A*L03;JWHQ)5XN."CL*4'>,Z/:.7[AC\W M6H23)"$=J#\
(SI@\FD>96DXKV.H8<#')=#K48Y"3Y=JMJJ8UHFQTA,PM75A- MQ+FT\SZZ2-_1NA&M41?$<[_J:H- OI&P
[SCP5!%QM&<=2B+VPU*0X/@DV3Q MFWI6*^X+U-HR5AN:1&_[]@1J#H(>3>65Y$BE^=%.N_.CR4E2
M<%Y^]Y'J7%.1KN PO6XZ#$:Y7K?JI=VGUTT/RTL'KT6OF\9T:,L%=W4YOBAF MQ]?

+!=.%"R[1R@&XX/3'GQNMVBXX^6@K=\%U#%L=:RXFF8(]>A>1=IF-(DZT MDV;:BL/+:ALH?.-IH*$K:=Z\,V MBK,
J>G:=?_$"^=:]6O?)_\6O*6W(X+M/A\T1Y9?O@9^ M=#.W%+N#GV%UP^
%&!:TMTCUP%M#!SOD[A&M(_JS$H#5;2XW6DZ.T&BYZMZ- M+
9>>9Z1JHRNGSN=_720U5G!#>5%VMSO6L(I%8X]VGS"ZYG4C1=SZL.VA1): MX'B34]T:=CU_8GCA(;-?&U&ZC>&PD
V1:2P4%")^CUB M04WP@/N#Q()('CNJ&1T"Q[+Y,[3/1X/2KJ=/FV-S-].?W![)-C/4+; MN- @ON=-ETG;B-;V$HGK
B\'6F6(ZPK;/]REYP[7!?>Z$ J0H4(#.D4GIRES M;\$[L%UZ_ =]>O&]3:N%^DP
N))VD4%.:Z1AW8CJ(WF^1,XAA$$%HJ8:*9?*D'E\B]+H? MMTVT6;#J7/)V'7A8*X9T_S!7'([P"(*5:^V=).6_ H!32G\D0U0M
MPJ(I^'[[\]KP@?4+O?M$*L M[H:-+8VD$^!V=U^12,1!6/A5*P"KP2 I_$0>C0^X#I<4W'(_:XG$HR^Y;&H
MED5]OM7,V']@Y5LEEFZ87 2A+!^=C'YCHXL'>V*/PD?/A\5;[QF30Y2MM$?]I_<>0NR@6Z M/(A^-
K9XV>"C/6O4+\.NRH7%K-'%<$\@7&]L=PO -7# @8^.:29KY)6PUT MJ=PH%Y=P& N'1/!GSUT WX\DN >
CP^42@/B@XB$PU@.((FMT R^&YYG.,$V MT57T=@A<0&"QB<%9>P@,:2*J@AL0G<4EQ@/E 1IOT(X2;K
9PJZ4U]:9'I&* M@L2H(:$6G@-94PDW%0;-@EH$:)R_VPT,.TN 5G<*<@)4K\H!JH0]@H9!JOQ[M _3]'QRU?ER
9K43!#%VA]3AF^AE%:#5DC#A%-%#M&T6/Y3O+VO
M@>%8AF<5UBASX*U)OE]&\2&@6DM&+5;S%'CO$O/)"2^C^&#@%951U0J\7=?< M"A\G^E,G^7LJ]>S-
ALOH"W5<=&,>%UW\Y2AG??)K^O%1YNL]F8]U]=61MYA" M6^\\^<\OQY='O5M*"T@F:5+>
^Z%IHRO*!T[ZO6I2!%5$"*C%)N"%$BK31< M:C E;#JQ7\44<< 2WS/6Y'8Y60_)/]'><^K[8>EU&
['*PZ4+EZ0#3%JB9GHI MRM)75I!%D^2IBR>8.Z=L/TY;64C>&!L8&/9KX)I_BBX1CX_+I[A)>Z.HP4Y7 M?5$/5JZ-8/+C\
(XG-ZBZ(9MWG* M!?6&CPN),I*<8NH$X2N:PM$2XSFU)5'?V7=TZ#6T!)43%)+[7$S0KN\4U+B6 MB+!Z%L>BVI9
M.D>C_NVG_J%1*8M.[X?AFZNSQ02[$):1168LS8EEM4*KT;*<7SP][X&*A#SM MA<3>IB?4^_U?YNB_?
+2CQ2=AS(6A8"M:,H4?]#)A9,BO:::>W1N=DZ4' /4: M/[.LEGC+P*QPAB\DOQ;A-[7F\ 9O2FN"O?"NHUHD27[U=C,"-
'PI6H,5634P M%" 9\NANB1N]%'W9K6N&%P.:965+I;%-K>,H?VCXRE+'6,MQC;-EDQ1WWF5Z
MM*R/\76%M.E/PF#E>O ?C('5B6]2<#&DW2X+2RK)#- 2Z+>54*UK!Z>#6_F M13JUHA>
GX$7J8:+,+3*0R:.D,R28J=I!.HJ J\\D"K"JF@5ADR42CDE^7QT MMBZQ#F9AX.-+!]!9"C D4VOX-*D25O%C4=T$-L7@$/:
(>W!8HYZPV!! M,W$3*ESI<^F#>B-X TPT#]X8_NK5>$?4O@W!W'TVMJ@#]D[*9\]=>@;EDK!(M"P,BAP3!4X?
9D3X\:>Y%Q[8R>FH#I^,#CI\@N3OCO=[NBR07[B8_#<^*(_JG MCA]X870Z'.7#F:\,)QYZ^-6PZ.$/ZSN
RQ5^JQ,G6UB"K_CVS2V"\-Z 7K2@ MH_GM->C:, :]AI-1Y;,(RDU%O@%R3);X,4FSAN21L!C'?EXDX+^D6@DLBZ%
MV8=AEV6T.PRRJE5'RC29"3^&:\.CX>M/G>?H'F/K=CK_^6'06PNMI:-@2->< M:RN4J+:OGNM3 PKD?
RF'TOA(L_BOUK@MJ*"4QC(3*@Z+QJVOO>OUXI/^LI67
M#@VY9R9JUM31>B[VW]Z&'MJ9QX+';KQO#A)D']@6'0@DCWWLXH=)"^K&C0Z# MDPIUD5*LZ5F+^DT;1?
YH]$CF%W>;PZ=7,U6D[&IZ:J/5W([%?P&;W6-%T3YU M?_@]6;NA$U 3L?+5'@:Q9 B=4JCI$4\+!@I;XI*4U#RNU-)Y-1Q?
GA[U,0:@ MCI IUAJ=X32_:^H!PP^];390QD2[?X]Z],^H,0QJU!4T#54=TM%-3@>I],DN M 2>TK@@IXJT^8.*
(2IVR2/]C"K:8:[0:PX_=,%A2LY5AD$6F\"EGAG3@D%-- M$G@3V6 >4Y,M/PRZU!,S)89&/GB*,;EQ;02HZQ7=6/O
.WQC+?)FS;#3*GJG MPS'!([2!'[A.B1>26AT&>U0J(^78D!SDC]")OC]U4*^0\(1G7*^WSP;C02*! M%O):/4'8%2^>]
(%BL@1/Z=3X_2*-Z!2-,-)SV>4"PR)#A5PIUFJ\N^,6IJ?X MH/S:=4(_=DC>(\7A:1D@PQD]
+U@>GAEM#L,RJA51\HTC3R]@DQ+S.=LD=&% M"*-(J0^ .=QBIPS1WY%+$W6.:ODX%_:CX?T)
GPT$A4180FMC;S*QI>GQX-C MBI#H*5LT<@4WVEC-G+L/$P!\D64G^-SPED!HUN)M\P#8U$@5Z;UVC3S)==@5
M>;""*'Z0>)FP1@N'PAP^P5.>J/45JWT^)')DE0*97L/UVQ"V25!V'+,T,0/X MCGHF_,C(2?F1D:C9+]%G1]GOXI_B3X_<1?
($2?SU4?KY3I\DV0LQ6V3[_0)L M?'F,T(M!;)NZKZJVZIHUVL:,V5\ *;1RU3PR$*U[YCT)$,EQZM@W'O][> M?:#E(?
3C+6J44ICY'HK2C^9'^*D>+U7+X5O.)="^$KO.(MB8[;'D4Z2)#V#- MW6A&2-^[P:IJR;P.>%(F:VWMZ?
2Z2)40S$=C^"IKR:#:X(GS@*$% MG9APM][8[A: S#!A)A.GEN\EW@R0RHB+B3Z0;*?U#6W9S.[V0D*W/YI^3$MB
M:C&5M:AO+=Z[[_R25'8WS O:ZM^['OY1T5TH\L?T' WM$9%W%"C1LY+4M_T> M!T\AZTD[V=_I$?N5$%
I^QDJED3\^%WCU\#P@OZ27VUR@^K+^)^T;T>_ UGR ML.YP9C.BI!,QE='"#7VRML1:.3ILFB/[*F:F Y;8X=M?2XR4OP
P"/&IK%IS M3/A2'IDSA,S%H;.[)24W3?L]%/IKL@K_I'Y;*I:4SSQ>A=\Y]:G/NH[<0 N% ME"4YUP#EO+NU[_:
(\XK]+MVJ7,GC,?TV_BQ=JI\26%_7:M!TRUNE!S1#4948IQ&(C'J*D64T5U.J2$.O$YJE2.JN902'H4KN\# MB^
@Z6)H"7;CPVR@.ZL.LYKW;E2I M!$$;+UWG(VEB63 6?G_GH.KBBM)OY@$[1X"='Z@3KSMU*WG@MZO!\5:MN3=A
M&_,"<% S^ON-ZT1Z# T;)[\80V9=GO2HX&DDLN4\:0!%JJBU[NX.+K'9>I$
M":SP/VK<&#T1N#&Z_^8H\]'/>Z):W1.]3:A,&6K?8;":HJ'T#BTT5DI#W^>[M%RKC(UJ:2Y7W0)4I3<]
[G[X79)B+_K5G+?K'CSDV0[/%7F+"Y4YJ.2VYTP+2 M>WJ)J688#,%ZBP8B7A2LX&;NWCD!3I1 NMA9HP6M6"4&<
4Q:L@M\3XG)3+F MVL5+O,4M](")ZO@3QWHT'",>(\3[FKS5] >R!B"%8).Z:M#X"F>%/8CV\I19 M8O>;5M!W-
C.PU2'I2+;=V2 2B6@5"K_F1;[H]FBE&@P"< PY>CF1/QH?#E?M<3/D;?\@!6R])/"*'#AC#[>]\AK)1%3P,JXC9I-@T]5.0\D-
6\5D3J M9#)O1:,'$DG"%Y%Z? XB?=0^J"'/.D8I3E$W=?S "R,D9\$*>/.5 MX22:?G*==^ C_:I9@(E^_W/P=*UL24&X38>,
[*N]E;JI%VZK1Z<.>=1HC("D M"-P!SS[B869B.3\[ZF.>#9=Z/'XTF%E,%B#)\&SZ0ESGPW.73QAX[\@4D16_ MF_HC'?
MS-S#L[.\XS.K)#?X&@A=@NDL'QWI3AIJR[WT.F[:5FPR!ID_7#7<(M)$\"NE[R)UR.YFMHMQ.?
@T4+C2+6=*U5\,VO.T+L$(S MFDY).QJ>>H=,P&9*2CBC_P-_=Q\;8.(8;,-?O1KO:&%U&X*YB[2%.F#OI'SV
MW*5GK$E$$FOAX"DE05WI@9O^#_R]& $.T,3O&#HF2-YCBXWT+'O%T(]T4!A9 M#,[):/?
@F:A,B2D_U3XL.!0'R6[Q4MCI1AF";A%&]P;T\+N?TD^.)7;MD >3
M]CBDXU%FMJC>CD>>_%OJAUZ]7GR.,CU4G@XHN8?.^R%51%7S(55IO]2^8R'X M^3RB5Y^#J&U=IZ.GZ?
GS<*>CKY[K2S\%HW_I/5>$!A!3P:WI\@B-20/ 3JQZ_[[%:R*VBNICYV M+SJH_@RM+>+<_@?T.'ETG6!&/
#KMT.=@TD[[Z5!J>E8\S*'D!-M[-_3T&DZY M3GT.*2T12(=5TP-DC8=59PN[S^5;&\-#VB)-__/P2AW%PN/!']F#DN6(#]#V
M9J(6W44_DE/ZZ=%G=+@:C::7]S0Z>._.$+ M6>R[#],.+?#@.DL<'CYU0VNA@>7DZTE,2W M8%Q(LUBWA^T-);
[>SE'G*(HK)W-LZ:MY"([U8&8++"M3NPM%:\OU^/0G$C#[MW-1> >E=/I\N-3$;L?
P/:,G@+LA$N(FC5LD2,R/+NVNV#X(FYFBL+*\EG10# M26".D'JT2*5,VVMFHN+G$%AS-U9F[$JZ,38P,&SXCTA%C] &?N
ZY/2Z39L[M;&8IT1XU-9>VF;AUP;W5)5:U.A@YUA0LA)1DV.X;V6HE$P"I8]2US[2L#1*, MON6QJ):EY7*861I+#;
MK7G2<>;N.E=&2\RKU$\%K"?[4S$,E=JA9$,LUO3G/:<:9OSA;2$O1(!.F@, MJ=0_I$8\TT7%CNG^G(HJ6L/#T'7!
[U)'2IUL:3P#H \PC&FNC):X=6)-J]4B M*2%J=X_X5(96^;38JKUR'(O+>*OXE)9&]X2
M!#Y]&N*LJB556H.],*DUT9G.)U83QT%6_P6\ R<$E'FMP(:=;3DE0
MX##>G>OC6XK:4+B'$6]LC2K)X[YW\)SJN=,0NHXG^^I-=3X?7>BNE'DU-B;- M-:I@0=G;:V:]?
5SQB0B'>9K1Z>GE^/+XH V)I8%XVY&%T0("0JB#"_SE1'"?II/GX>8M03QY)1Y?C\X@(/]]/3 M\=EG(I,Z)TMG:
(@==6^6:N%-V+RKUY2V^1X.(+>))F1M@6723WIK*5I;KOD@ M[8JA> -
:440)8N+;SPKMZ$&!^4^W&05V#7Q20%@[$M,$-*$:J&A'<@T\4F# M&OJA1@RT2H3HT8M&/-
BW\$D#M[M4SW:T*!"/]2#T%:)<(=C=IL1 M(=/$)Q%JZ(=Z2MDJ$9Y@4X?!OH5/&HBK)V%!^M M44G7-*3>YJ,8NF?
@X3@&8XG4'U]'0?]Y[WJ,= %IH!/)ZC5H3DMN*J5)P23* MUIU^E^P$.?A@^$'V3=]/NKJ?SVSA9 3U701,F M@;QU35
MVW0HO0 CB\N!T@N7L&UR)+:&K4:4NE@J,.B2F-W%$Z6H"E5OJ%5 MI&^ZH1,
Z^[#1$4G:_RO.KRAM35L$@E)W=3I=!4SR@%+?&%TWJT-HBB$0AU* MZ=Z30T0N)6F#.M\)[5-
M3!VT1US'UYC$]T.E:_Y\^Z']YT>9[W_NBJ2,Z@+R MR+1Y0>+U3#*H< WWZF8&9@=J"CR,?4]>%87TJK?);/F"9K#$]
<1%H>IF 76XFD'RB'"U#$]W/M;$/_O MU,F+'"\32"<%?#7S"CFY/#W5((<5#P.:RJC@/%PZZ$5Q,@M!%N*,:L. 6U1 M!6?
3+>Q"7L,W'_P]1/7OWB.WC>@6X[Q\Y+)OQ&*:CD0J_#(9>+B%4K;'$-%"=A/EU)*]P%'.C;5L++$[!.R[!=#:>5[M@2X+
(BZ &;+J],!PH>?$2W#,LGD)QY>G1QKD4!+#HQ)/AJ0Z81GG@\J$^# L M+[%L+[

4L+O\0DIR>'3W%'0V5=C$L9Y0[_=_F:/_\M&2 PX8"M:\H4? M]#)A9,BOZ1O-D\!=0S^
YF3I@4@>Q@.IE+):XBT#L*66$A^C=WMQA=D; ?Z
MU]YNH'_\F/UTT$=7<$.8)TJ_:XE]C;F!3S!)WDO)\P$OGL1U.:&$5ICR 4,! MDB&/[O;XU6]55TJI2]F#
QH]I4M57\MZPN>?RA6=?>;5D@VM*ALH>0^^=8F MAL216?A5*QRKP2 I_%JMA9TC]"!ZW!-
!2_W>UYL_'A*,2E'%_!Q+5;Y9.DG MA,8'&\+L[WV'L%*6WKLG"M/*0T62)%IQK8"6?S# EI-QX-KH9("5IG_J^R&P
M;D,/.LOX*;[X>>!O^ ;.?AF'BSZ'GKG"X0'IGIFTGFW<:!\8P(:QL!96HY'> M) RBB/^'88=
,LFXVSP4CC53B'X9@N0\!O[L09,:=+ K,"2.<$K7F\0Z-ZZ- M<'.]XHWWV*;B<8"GZ.BR^\Q!0R&*]W=,L$]72;
(JS5L=$F=4JD2_K#J-+0O: MI47?GSJH5TCVG=-LGSCA>OL<@44Q/0(M#(EGLL17FDE':BJ)Z*L^,']=NN^_ M =.*/SQU?
(@DF'N&A>;O[)D79^CBV>GI63%P,6ETE+0ZRC7;;)!D!8C'AVGM MAP7ZQX^21+1-
855A:?/&2VB#XZ.WL^.,'AY="RX@L.YM8TF:%:KJY,EXAK;_ M'08[\:E]9]YKR9;N/+0,_']R':\&R!S5\KHX1QO^#IW
@CC7%2^%6GJX/]6. M)C_@__.&5A7__O\!4$L#!!0 (/:!#EEFAM+7"?\! *@?'0 5 =G5Z M:2TR,#
(T,#8S,'@Q,'$N:'1M[+WIEN*ZTB;\OZ^"K][N/ONL5<[R#.3>NWH9 M,/-LS/3'R]@"C$<\,%W])QG(A$QRADR3Y;?
[U$ZPD*48G@B%0J%__M_*-!(+ MX'J:;?W['^(&_T\"6(JM:M;DW_]P0K94^L__^_V__OG_,"RA]3/M:D*UE< $ MEI]07"#
[0$TL-7]ZF^C8CB-;B1IP7X#=$ L-V765D M#_[2MF[W+0X?9G<=H\>I7P3]B\1).I&\)=*W))MHUNY;;G]$WJ31)W1
,3;,/FPO 76@*2)3M4:*4NTV,58IEQF,9DUD@8S2KTE@:3X^Q ML<*0,JL0-,OL^ICZD%:07I9W&WC81):=?W],?=^Y_?
5K+'NC&]N=_-H]0&.F M?NP:&YJEW[5<+I]^<-B8^;5]N&^JK7S, M \I1Y_#SS<1>_-(LV#% 4_[EN[+EC6W7E'U((-
@1P6!X"J.(?3^>ZS^>"OSR M:!J+8*/=M4(?5C>*;8;M7C\3CJ$_T]*[IR7?#(1*_^K6JH$R!*6,/Z0!EY/347A(0$B/9
M(YG43LHDNY5)['#U;^KRUAT(\Q, ^TQ;_ M=L\Q?^V '[]^_^-KO@%^__-K_]]M5R-;7?_^1]46"<]?&^#?'Z;L3C0+\VWG
MEL(=_V_XTE_P\5$;5?,<0U[?6K8%4 -M=8MZ ^[V3TU5@17^"1O4(9:YFK(= M[LIO(V',!6Y(!HF
_P])M]2Q)5:B\.V';EO3ZSG3JO#K(=$.,JWLJ#%K_4A8 MLHE>#K1;#N*CBC R;\B3'PD-"D)==EVI[7?E1A/'NWQ
SKN.T):)SG3YX_=8 M-CSPSZ^C$5UT@+P%R;QN@XGF(<[[=?AD.\YB2!UIE.7;0;;CK/5&KI]5%976 MNACWXW<7:7TB:
[O.9PUWAZ>WPE1V06@VLK;I ,L+N^1<./P)0+3.K.^;-.4U
M^HI;RJ[*0WGSUR6H%&YHM[R&/P5N9RI;#0=UX34"'RD,LG@]H$VFT/1PT)3(
M$]"&ZJ19\/LLG(TK*WX@&QW@FMX1K=)YK]WN328+,3>4BK9GJ0
MK+&YS^=K%J#1&B5+!:L*6&\'VU$D7>&F9L9R+!XX26$DDZF&H2XE4B)^_,8A MAM LE4Z2GSG>;."Z2$TT3Y&-
9!=WE)ST/;?#9FF)V;9KV5'_!RO\E,EP[>G MZ8E$H2%C&$%"$_:9X\WM?)_[>?A-][=<'ML?52F17&
%Y+%+)L9T>F^LY1H M-%STBJ\;:Q.^P%:/1[M)ZS,'2).BN%ZTL:+$!7Q>G4@,&FWK*3G((SV XTH$ MEK8=J0C_D
2D05#;) \IH2?X@NQSV%0.*5/"\ ZI&JZZ CT?F. M+?/LLNBTG+HUK&,MJ#U[8NVIRVZ: MU9RW/ ^Y&BF&:AAK-:57:K-
T>3IIS QB^0RYWJ$(T$F5VL@&A#-&GVH0LLW MW,UO3X/<;L1/6(\>7,1 P-06F@I!_I$E\3+K#G14&N.3W:
W(W]8"LFQ,RL= M#:@=>VM]:K*K S\K.YHO&]HF_%5-,X#G0Q=E-] 2[W;HY;".XU@^)S0(4U#P MWN0AY7G3,>PU
+M%S&FK6+>M!>P;VC%D +V.#=]Z^#QK>W[=]@< 4EBQ)Y:V M@1/=
82[^PJU(XZX:;BFA"W;8"7.:WBUH*Q2A70%7G,NFS''Y4+"+^?&?!+""X*.2FCM\BZWDP%^EPC^$I@";4LNWS>
MV"UL>X"1HX6H"^NEPY7J';.N'.$NQCQ4_J[L:O+("78+41E7;_B58WN!"SC3#BS_B ":2P.[JQA97!@1MNFFY:
[(09V@B!2._N^,P'Q& M.<,S&Y)66[
M)JSX0K["4VX@LOT@.Q^M1YF!%W(H]3TGK'&$MQY,J;+>FR7)_G@@\]IZJ&7K4QS^%SBN4_6
MH;U=V0U2NY,D02G.9;W5&NN8"F6>$#>D4N+>YZ8T>UTI5P \3[+FM#]D3!=M[:IY/+1KA @I8P7W(!OJS83S3
M4D!C9&B3D#C0,@(%^L4=S81-X%()?NN-MZ8.SL/U4?#AGBR*Y?F2"K*7X4G M<4)JE19*I5Z>
SV;F;=ZV:KI9,>/O/0/#V;KC1_[W[I1&&>'M*'PP1COX;2[M*)4RB(#L5="/P0E(/UNITD0EV:-U4"F
41\G&R5Q^2GTYW:QV]U\G7 M!_1@E,ND0D5[:OUR+M_O4#?9.^6_Q D%Y:HY7(R+JR3W-
#U@OP".PI9X$A=Z@9&M+?8]5;TV,E*8YLGM7G_,#Q>DP>Q9V3 M.)Y,GM/GVPO3=@D=BV,UM%'T8F[)>W]XGF'/B.?
QDR391P^ M2V1QP[&2U8 _'1D>O1P9'CV,#+\[_DL>47>65FLYAEM4\8I2;4WQDB3K$I*K MY(# :^2G!8 C$"
(8E:1LKLKT"Z*F=B9.SF6U03;$^ %9(]Y'"D:Z5YF[OT=L M&]N49GA1KU0F^2'-$16I^\ NO;1AL)U. [*Z-
]64:5[6W&V44_/6#T!9)M-NC7++"ZHUV5\=(=\.FI0]X)]&<96J4[9#=++7F*V4_Y>C5 M59$H/^^;7&J]O$>+/%1('R+=
JAP&0QGJ<$%,>=Y ,7H:O+,=L,PZ!'"5*$: M6![48V[B@I J>_^&J$L94VKF4GRC !?%LB6LB>YIY-VKUS,#@
MNU]^%]W;T M1'L$G:5]3%4RXUE9L'+%2FMH=IJYM53#EFB'@'AF"1X3]C%AI_"M1Z3M,D:W
M)?!>4USK8EM+6KG"LA&3]NVDS=N!>T394@>,91H;:^*ZIP^YXE#0U1874_;M ME(5MCRC;3!
<]+%5B6_B\09L#OM5M>)EG*/OK.(DAW(H!T#/V?O^#:.W*(,BW]_>!IT"U!.2/C=-,RZ018$VZ?
OW*P\%25B_'K09_C1@^(0 M?@J3<&YWK EG<6?"4FAS:F_#[C_<;4(%(P_, TAN'CKW_B,W\,'S!]LWV]V7 M [MVO\K@?-
O4/%]3[OBY^RUT-IE"::72HDEAK6!=&)04&GHCNTF ,&ZZ_Z2I MZ/-8 VXB)" XF5.5+56.]\H?_GC?G0Q_G2*U$[HD=Y3:
MKQO#'7*4ED;:[I_L/^]?\NM(8I\58 +YW-N]5;0\N__T2< M&M@];H$X:G9?4_^4U+HT9"(_W=_L^/6
MM(P)'TXGQ*]U(#*?:NV-4$!OQ)TA2&M%P U0:-_\.LN\% 0]MB?/1V90>&6
M#IP=Y'_C+O=GV4K/2U,ZJ^F]UF)&90JS!9A%SBSLG80+<^S>XWV291_W>@]Y MO4.S%YC]\7<>2,F!5_]Z,;D8K!)
(YXGD:^#A0=,SP -[TJPZ^:(FIP-AJD-7 MTW(L* M[CZ9-E,ANIFDUN;G5M434@.&MOJ1Z&\D+6A/ 5&M
M9#F!OWVXDYK,RJ_WA72IP\][W7YWK@EYEOQ>4O/DY+^G])Q>^YP7:TK]D<-0 M8"R(!7V5WY#"
<+',1"Y2^.TK[9,U!5(MR]-8L^QX?FNQR(]U9V#S M=@
MJB7@60+WO:3F4['FM9;I&J3E::Q)Y:0@2,]I72\80VXHKX&>KWTO"_4E6//I MTG.?PO <61:U+]#)?S--*&I^+6I]L; :-
U3)R>(.VECY"AIT,/4V'8!3)<-O9-?1,_^(6W>S^/$;?3R: MQB67F@QDU"N7FH=-SV#07\O0[=G:'4/3!9X?
U,BU*X)^:F(((WZI,Y&SS*<8 M>CB-[\K0^\@3O8-6YD45#4WROHJ&H !+AB^^:[O_(F^[0)&]?6+7>*1,",.O
M,3B673=YPF=[;"-R@:=WZ_7K#/@IHFW?!3ZQU+UO-7I0%@@)3Q85?@"N X>S M/EXWG'
G/Y+=&JS&U6'&)5F^H/!#NH6[8G(>25MXBB1O]TA??%5$$VG?L.S= M%54[MYB21V)*?
JZ89LN97D:>3"F\)TZ'#&\6S'P^DK;Z3Q93\O5B2IY=3$_G M1SR9W7N7,[A]^$!&LW:80[;MNJUY>F:= 98R-
67WN#+;+G26=VUS?\88I<]E M P\2'[C[&FUY5<,]F\5XSEZA_^)7 MD?E[9FZ\4ZYY"[B3]>[)9:5[XS/&*"LR,QW;S-
)S4!^2O4XDP?EYZ3Y!LEC& MOS#?)!K8K0VY47%R'D7;Q>9IR;\/:7D=)97-"Q\=F16Q^.D7N$U49AF5*>.-XQ(
MAF1C"W\Z.!:-_+,3I=T_#G\K?% 6>\FVR@=S"_ZR2G(1V^7Z@K@+PHQU$C" MWX@!OMYBJE.
<)$W*7B05N6M&3L)B^(ML2AS]:4?!MR49#FYDX"QU5T'3MF3C M[D8&K[.T=]*]SC:R72S9='@A7V3(Z7@S2N
MZ,LB*G*WDT9W5!A9RV9Y@0S%:!VYC8 (2N,]#6-Y_* \"MIJ)XT% MO*-+BP:OBP#/Y6I?R@/-
Y7]!E,K6(06!B&8TU6'BEB.U6*W@'3Z$GC18K= M_)&R6-?NA+'2S0Y$RA6J>!:3-
F?)>UL+7)+],@)XST)8VG\H#2B>M([:1S6 MN377<6B))UVRD*UIAB*]&99U5RAQO;]1, MD(FQ\0TDC*7Q@]+
(HTMG=N)84\5YP\UW6S@F\8,T.[5K72,&Q[?0,.KR^(KT MGJQM>;:AH:NS5!X-#UW??+@U<_HFT+KM-UW-
E%VTU0#&<.[PSYU@+:142K9[M=IO8A3G]+LH1KSTF>MCT MH@?VWGP@SV%998'G2%;'2-9GNN)@7HQF1?
<_^]CJ)%$D6_E-M'9O,H&>)B9O-3O;J#@M0=#=UP^!H799^&,63P MG#%T)%QV%GT6:T[P1CUR@/&Y'MX'Z/EM3?
LS,KZM#KZ_0.G1.B,K.YHO&[NK MISJR.P%W5UPQ_"J5R^3J!$[:I*:7*-^KMR.[W#V:Z(G5P#,S_1/E(C(KVOO\
MF85O$9[%$B6QYYIS+R?WQM(H<@8S>NO9B^3/Q'+\@=R;E$,3WRPJ:_% M
1'0#3_.=OBJW)M8EM^=MY,EVCD_FY=U'31;:HG/B+U\Y0_W0+\L;R>6XP_D M_$R,
(BYFA\,B7TBZQDJ:C]5>+_8NOBKG)Y;E=^<+V69[UMLL# 47IE7/HWI] M6XY>:?'H2?+E+\>*Y?A-
N49:4.CG_%RIIL^;"V\F3'N5BA-#\A?E&L62_/X\ M)4GK3,3Y.EG&L[WZO-KBR_W>)%[P?5&>4BS)[\]Q"EJ,Q[A=?,
(WDF)+K)-D MNE>-)?F+3G(9)F>R&MRH5GPK]7R$YMDCT]N9C[!]SG M1YJORE!S)IKE9<#8=D'=MK*R-
\U.$=&\8[EHKZO6R@[J2[VAM5R[UV?\H!S9 M1?K3LE>WXDV5C)D3QVNDW$(ZX2"T2^JAD MS3O3J5+EY)1?

3(BK$GB?G;GN,]HS]#P_IO] MAY>N2_D(]YV-WNSAI)43S0G0N'$UWRV0D3.AE[LU)2IR];#P^J%D/5]X_:CI
M>7*Q7RF$1[>G?$0(6XO-@)A(985OM,9+8Y5W;2(7N47DY2Y1B87PD5.#O)C[M2GSWGRZ)A:T94ZR5!MI +-CR &>:
[A0K1]+[^8.PD,((B/QUXCA@Z:?+(9G M0T.G4^2&C5:WB:\[M;8ND7R-[E^%2?
[&:/BE8OB$24XUY=HDWTG9.*!YD6G^K6NEZ(C"J=KMNXE MX2Z>L W>H\B^;:&8_]$QWXX+9"]PU^'Y&-
C&M/>9;PJCJ";9Q0H\RX/&W.M- MTS066:EX=K;WYWJ?G.X%8?:KJI]2T@X;A&HMY](\QNOS68=1X M''J
TS]GZ.'TM41OTPY.5;7M/E=3UM22M3L-M-,0GE[ZG44KV=8%8V0LIX5T MVX_>39EOU)!GIWS)D&/4+O#3-
MV!]YO42DFW.MU,&L'J[UVY1@3_O%971+=$91(J[;[W@L$;.E5M)9>3H5!;&8
MX=@\66:D:U^_?)Y$7+U_\5@BG$F09CLC#L/EOJ)HDPTY+ :Q1$39CWBJ]N3K M1* -?
%FS@,K+KJ59DWT:XGK$R!CN]&P>5-J#1K'5'GO9:Y>#TW,]IS!\9FW1 M ME+V!/2=+P3RZ)W\CJLW464K,?
8R_SVNSE>06\]:@)>+K,;E8YJ@VXVIQZ"A" MW'9JGDJU!\#6M54_4\VUL6HM%[&-F#-/_L25HQ_",K?MSRPB*>?
X=69A=5O- MZK@57'M V9G9 M_=ZUYA/J/)1]OBYY"LUCK7&925='1:IR[6S^9'6^R$+CO-KL"6-1<#=95<_2
MY1*KVWC5FUZ[!_HUVGR1A<:9M+F4FN<;BI9E=+F8F[0MJLJF!M>^GOQL;;Z$ MZWE>;9Y.-
GQA5=.*>*$SP6O9366X]*Z=S5^DS9?A]K29[C4K8]+E 6CHKEDD M2.KRWM.73O[.#R7/@V7CGB
;'6*>X<'&43*NUZ[GHGN]8A2QC+S00N.M#'YA MH<%F*LON>E47M60S(Q1+>"E8Q:
()E[/[O1'OIQ.:QZV>KJ4[QD*L:,U,K[1> MR,ONM6OTIR0T1V]?X_'6)2#;G4F>'(QYUA9K#;L@9J71M3LE%]VZC-[^Q=.Z
M6]8;26N3=CL\MO%&N&-FI_/QM<>VOT!WH["+\5AW&UR3JP5+1\:%UM W\@!7 MR/JU<_<3=3<2 ?
NGE7>Z&1D#=Z;6]0+9F(Q!8=.5V&N'YL]6WJB$[1]K;U$J M)SO+8M?C Z^,ZZT,5I%6U^Y7?
9;V1B0_[3RNLW&3%K(]%(42DJYR"O]EM>* ME?3(3RK8?9:_#Q#XE@R4$K6U1\B^#S=C40P_FG=3<[-O)3O9+MX
M8UZ;8G.UEU]LKIV[7Z"[40C)/];=6K'6'@^M9@UO="0SE]^Y:CJ[N1 MB#X_XS4O@N94K 6T*"OY3$GI2&,A>I4+
(ZZ\48E!/];>0*RNN71>7(GS3DZQ M9T-MNKKZN/-G:>^9V9J2T@\"&<'(_, S7E(87OW>KZ[]X'*V+*K-L8YS06*;
[L>9ZDUV9(GA[)5;+=:,[!H4'PA MIVARC6Z7%]W(A==0O:V3$]WQ]Q4S/2>K(W<ENG2H^KJ)D6'=UU_FLF?8]& M3\
[Z8@+SII-@9RVA_'A'[4P"XB4%II/EO!D/)C8&JM-FJ[>('(I6 NM]]V
M.53@^_GE2)LO%K@V;KE.H=0IXG*,"E\;ZKVS#)1$)!';"60:[C_LV7KIZW5> M%I]]BZ8A6W79/+@=HVI;DPYPS9*E(/(M
&J"1K_[I;](30;)&B/AH%'ILOE2 M5P'KR K>Q6_A>;_,OGH.ASS:N5PO,.EBUI- P1DB^1KK^:#IQ:MOG E71SZ-
MF2;+.'R6R.*&8R6K 1_9XXKZ\OC/$+]RR8-C>I$WAA=FEN0S'Z/.:V;"7_=;,OOSUM6^>.P.G?T:G^V[Z8?
WMW=\CMHUM M2C.\J%JWQ;LQFYT/ WU"F,8(Q@52HL\4*=D0@C"Y)#.;(+I%BGKGX]]\I: MB]>L4^5NCAJ-
5Y:HFZSISIIS;L1&-QTLUJD_I5KE->N42Q980W &53X0W X_ ME/-F=1#KU!^C4U]7-_QYWR^O69H/JI 6:LF"2]Z)-C(
YWD <;$FSVPW:\B> M=R#H&J2=!_;'WYN^=5+QMXM]S3?ENJ>&AVED OM": M[)[O!20]6&:+LCK#
<%!S>*U9J4Z81N0")*\1D"?G^#UEX;2-.3^":.9,FO3H59O95 M"LB7(,B7^R /5G[G1Q NM,&[I>9I M!#%,LY8?Y>2T:
K$2G:7I&-OKE) /A]!(A@[N@""0 ^UV7/;4UZ>D9,4&);Q MD7&5
A(=!/GRZ,@Y$02S9V['8&N>/E^P'6(^;*G**E[%1%86GCH/T08+8 6@ M#4Q90U40F\ =VZXI6PIHC QM$@H0OW*
X@.UHYFP26,LP&^]L:R@9\)^]/=2 MHUB>+ZGP*_0J!B=P0K*5*DU4DCU:!Y4"&/5QLE$2OR@JXJ\=H#X=/CLO1> 4
M+]/QC6JC?I"0,'MYNNR;[O3A@(1R\;Z OFF\224[U9IH53JY3G0LYEYJY>M MFDYV_$5P^.WD&PI),I;OQYFDIPS;SFZO?
&@J@-J3T7Z6K]V9[1)38\>%-)'F MY4J;)EJ MRJ%R(4.4/;HJMB?.1\KV@Q\4*EQ>X-#9PJ[,1?H]U6'RXTT($0!XTTARA^0
M@GS@6AJ<.CALM$^AE>S1:&UM.J+)3)6ULVQIS=HW8/TS<_[._-ZWK0+9 U/;
M4$NFX]J+,,GD#M(K(#.>"L.)/L<6@J+UN]YP&CF[_":6[QL_,^T_@>LH+2CP
M@2O88W\IN^!!2L:._YMVI]J5)MZ8UZ0")X-6VAM'][#9F_C_*@)#X:\Q_+9C)I>EIM<4S9(N<0OH]BG-
Z^;YUQG^:+']=9;? M%XLM*VBUIV*EK0X%/U\O!>3W\/R^TO)??+U_5P0R3*9MC,/D[N.ZB/ =P..: M[BY!_+#@I2,
(%;\:K&TT^QN+D M1AGFUKH'Q'EN5.]E-\UJ+KK6/)(L/G^1J.?/7;^N?.T3=^2)OD%FA/;4X;&I MS1!4ULAD&Y$%\E?
6L+W\'7E1S^\]BVQ4RGA+G]8FFL@FK19E*+@?T-''@JC) M1M0R-\\C&]5\4!:2!94G9^V95%PLEJ0?R\:;9".".7EGD8U&?
R*.,KG:2"=+ M/=*Q:0N-YNM!F*E@Q>*Y8%6I>9#W(L<-]\547IRTM<1 M8_C8R?
2[<')X6AMMINSO=MCK,5&7,J;4S*7X1L'(XK(EK(EN9*-*;SJG?A=4 M?FKRUR$!'PPI/Z/TNMY:>)D.S?
=8WQRDO*8L3&*ECT#H^ 3+SZOUW5Y^TNYX MG1+.XO*\L)&;_<8DUOIHB@!RR@1(>#5 M5&W"Z4:*/[]\NGP6P".
M"_$T76T!O<2L[3KVUE_>R4*G8R\4T,>KO)R?<@ITHV7*B=R"$7ER'R'"SO%[
MB@K7(13WH0(D$VU4=BAD,/I4DU>:&9@[IIY'9D1]6[XH&$&:H+6Y;*UW+Q"F
MZP+ES9L\3W;;TL:567Q8CISQ0%)S1Z8?
O]''(SH]R?;/DL>G*7PQB;R,EU;R.ANYEV#%&=G7@9V5'\V5#VVRIKQF03;8%]F=B>+=#+X=U',?R.:%!
MF(*"]R+G/YU"OT-ZOQ_]/JT>WO8\]OLY]3VWEEZM74<^P=5HEY16?%OS5SF1
M'>:'32J5RN'1*U9S.=\BUJZONY#F\ZN ?UA=IDW BI8F*SH0M"50=*]L1O>. MN3]*J"\1%7SMO:;G"1*654J
ME_2ZT[O3(,F6YNQ'Y%,_V MY\MZ7O&7?2Z2/LWI]@'&G8_JTO:_Z@5<'V1W[P%W,EZ]V2?J<^.],"S^@Y> M&%:H.NJ-
AM55[VIH6M8:\Q9^9Q9,R+G MD$5(UZ.XDGZSKGN3$I62"KVB"!1QDJ>R.C.J1LY3BIRN1RU!]XVZ+FQ(R;*-
M(J:S6]]B9\;S535Z93&CHNM1\./>RN]3NKYI=R5[F*92>,50-([(2:ZC7B'7
M/U/7(YAP_49='[+F>HCY2H5G6Z.NU:U62L9756R["EV/1A+U!W4]7=/E6H]C M:N+
<&$G*4A<(X_(KY*O7]:_C_=/KMVVN4.#YM@G<@YJU#0OLOSW(GWBSI-R? MX@[O4=H.IZUY>F:= 98R-
67W^"SHKBAAWK5-^!OX R6,?SX8RS/=/CY OOOI MH[;[=,_2HB:M4AF5QTQ:-RNZQTM.)(7Y,:]VH=U'S/I8$L?
YE.;%U]T? M/@[/O;Q"0"XRH!-'\Y\7K>\9#W@[EN3MX/[KUZ+)L9]Q!3A2; V\I4*5-CJ[
M;E5+HTJ]YD3OPIEG<>0$HRZ))*]SNF(,^7X8\G2,Z2D,Z4Q= +X_B+2%;JH_
M<=@YWZ#@RVQQE71RUP4BIS@5H\CW19$H1JKC54U?K:V;^B0IZ"8A-)9S,Y/N M1N\2X7A5$V/)M6+)28_DS
7&O!D,!-#F M-*_WYG)+U!?7!0;G]2K>KJ!/\2G6R:_8C3RC?;^Z)<+&FR95KJJTQ=Y4*F=Z M!%_!]>M2YD^U[/'ZX
OQ(S([G \.#S]IU)?V=9CTE)LFRW3+G/*RF:+5L;)8 M%M#K\UDS6W?5Z7B2 MY*_+HI]3EV.3_GT0Y"('T2BIMO#TLIW-
%473&+3P39NKE(H7UYA74.H3R@J0 MDE7JV21C=XHZFZ?U# MQ.W*KH9,>@GVXP+/#QNMZ[;?=#6HU4B]P1@J!?
QSA\%LJ]][I")RQY'M4=E;M M.>)XF(UD%LA3D[]'AC?/_IQ8\6GG^^[1@"#J(\3HI-.TE0ILA;J>K F:EM$Y\6:43)7 M5C#7!'A
SAD_1YNU@AVYI<&58TC[M=!FO(:F-.%;S<-"3N?&XZJ5&M1AK MKEAZGK^AY$QK*+J1:BW5O(]K[1P-
"BLG,P"Q7W,]DILJM*'JJHZ$E.L0T69+U4 MXM?S%9;$%H9*')0C,X'L!2[XO1MC^)O]>_;/]I_1BUYXJ2CDI(S>(NMZ,Q7H
MM,@L/.ZH$)H)39[CL']NCWZ,L$ M [N5@(]7A4$E0_*]H+JIEA<]C-*X)WB/?O$!SCO;Y 6I:&28%2>;!5W&Z^N^
MZA2==FORZ)UA>L7N-Q]XJ[++%I"J+E\2BLMZ2<>:TB;7S:W$@?U8S,/7[G_T M_'M_::M;R"H[;3.^^LST-
H1Q\C0'A;@'^_O&@5W>B69AO.[?) M&]+Q_X9B@4U!V .)WQ ,_.K@K?#'SOZG8P@1V%@V-6-]^Y\.=%:]1!TL$VW;
ME*W__-Q^__K06 9_^?OL+6G;0#L"/9I:!;8OX>X(=)_;P=R"Y\ET/_8[7_1 M"^7$U 7C?W_\3Z>1A1\]1[:.AA#^?
6O9KBD;V][%C>(=N$>=^)_\/#_]BW0#Z@3C^_I_O=)XH:C@P\7FJ>-- .:
MI=NIID*3!9O_W_])D3CU]QTUG4^0CJ='F7K]*.50S:4Q0[%IDDI+='I,233- MJE(*9Z$?1#-CF2'3S$AF?
VREY$+S0C86DPUM8MVB3"3@;K_1+.03A-,]GOGH M:!@[.1_9A@H?BO52A\\EA [7X85_?HTNRI!S#ES@LV*
[U"GQ0H*KYQ)\/UOD MZ@4^D6W4:B5!*#7J49I-"$\$?H]/STVMQPG%4KW0:=1_)G(WV9L$B3-T^HS3 M27WJ=/*-
=NW__@_!XG^'4X#FRK*MT$G1E,3.96PCK'Z?;=G),736K0=IQVO:4DN1=&3>!8:TORHP$?04&: M2C%I,DE(X_%
(E6AVG))DE4Q*,B4SM**F1^D[*-C^HJ-(U1[6[LS$=$\'0UZQ M\EC1<)M+-.5=2S^T.[N!
[7!8L0U#=CQPN__CD)O0ZOV]8R0R.\K67.VXM37U MO6NOZP=V]*!O&_8W-NSE'ICWG[&E*SNW(Q?(.K:$-'K19;E[
M+H^@*0M\\#>R;8]GN#7JNW]]]5532[,W2?H:Y_;+=Q%/S*_CZ,2=<,\B4M/ MFHAC-!DCY\W_]X<&?
P(7T%"7;6,D&X;MC^S5C\N 32N RV?@&NLV<&S7_[%7 M]&4QU0W2LWH#+U23XGBFVHMF;P)?
AI]R1O8$$\#$!@FQE!#6)D2B_X2N2#I) ML_>NR D\.IND7MY4SN :1QNO/V#Y6R+7[O#MZB#1YIN-=B?1%-N"R-

4[B4XC M =V"#K3]6WM#4(E&.T$P?ZG_W7[1R"#HK?1KT./(I-WFW1//!D/4ODT]@)]:C=.N%.9<#"R0H_&<" M#>))U^+:.-EHWZG+SBN""R"<&C,IB4XQ-/2*Y+0T2H]I2:;)%#F6%7I$@H=> M46;!MH!0;@[XBFP(R4!7>XU.*_:*HNHYQ%Y1[!4]OP1S96M+_P=NT2C;X*>M M(,^+;$%M3IP>X#7NW6X1? 4ZWZ$%8S%D]'?6Z0K>IT^;J0@DY1['?=+5^4]8V M3LUU[F*?UROG?_$K6?%#"41;,"Z8 M:)X/38J?D+V$YP %;7VK">Z'PB&;6-- 1X;UK*#F<.5!F!D\C0/AVU=/E^HY1> M\XR.]89VDFACXVQ["5N2W]MGI5,WZ? 333L^O9SK9FM9=/^3[^C@8R/.C>(L? M]*<(J% +SMVG@^7J8YK+Y#>G'U1O#4")4NYOQ)<0"_,HKH>[CIKJ^#.RROY M8K'(8]TB+_>#.:A@@^Z@NO?RGE/\''3F4=;JDX;A>9_NM0)V688^Q;ZM,_7X MWSW6]%JIZPW83M3Z''.0M6NB05B/W MU_-]:(?8$?;E3F1K=P?N\>HA B;D*MCR5^FF?2/<)'C3,>PU2AUZ#2..52=1 MMV_^>X6+M[V7)\LJHZBX) (_&I$3+C"*E01J7%'5,RRH+1JGQ(]]M6NE-9Y@9 MY/0>R[2I=3>-L:.]?3IJ"49XGU;L8D:?3W-3=^X#>P$FI_Q! <>XNFV:% ;)I M#S:LF9HGR^G6G^$/4M<8Z'LEQMP07QG&W$6CPA<_FNA9)HCX]ZRK%.$9OM4* M/RNG$8'[B_M.G*JZP/-V_ZG"\1(' 1TY,[G1&8.^%Y^CJDN,6E4\Y,7S!#) M)(K 4EUM!:DDJS\30J#Y8.O= M#]:Y3::? %6ILY:6TH![P?#155P.^+Y^>V3,___G"UN:G+>-VA F]NH:;A"^# MSMGA%J=1PVO!N%Q?B96&G,L+N&YEZR^) =*2@>WJ9UF]O8"[5[: >QOD_F%0 MU+2AS!M#S3D*(DSF0E/!L^D<+KQJ=,#;*MPI[5U%7<") 4)63HCT(4|%M MXJ]+ [Y8A;X.#[[L'L]"B J_ D-YLD1*S0K/9670(2JHO7Y@FDSJ]1_;<;_[[M.=G651LJ[2-+K'.%02@'J<Y#$7'Z7%8? 2%#|:%OX>TO.GSE(!"S MEPP46T$!;73X(*'"I]!+14T=%R@@]%D)%K02_P%>X9RG/ "99KPIC;* M&DYLBUC!'\K^P_DLY>-!ASGWX8]W4_KOSX1LJ8F_R(-YCZ!*P$:C&9S5[D=H M*+M^PE**X2#"DGTCCVQ^K\MJ[21RYE!??@,D&+G*ZMX=T$)K[LA]X!^I& M" [2V6>"K)2[4LEDQITW'LSQ4MP$J%G6L:TVD'$QU@D #M<$D,+8I8@+62?R%'B;_3I 4>;-KX4^U,/W>0>GWGZ*"V_%O M?X[4T?OO9ZO, 9D1E7<:=* RA8)+=]*ZSN&!4*^,R:Z 2?XR5IG/5ADHFG+" M@)V!A*PH4&5<=(=3*#4NPNV3WR8@= ["3#SP3ZAI\B[O'2BA<)B3.^B*4R%O-\PQ5JSO+4WH'K5=;3/#DM M\Y7RNI\U%]!031V6S+EKZ4EU'B=5TL+7(YMN=XJ+:7:X/+7+D/5;EB&EN:%N M!AG,,@&;MC)HEX%ZV+ (X9NS1JC\41'(X%-)64*($&O7)/&RI>/-RGU4Z#1V8 MM@@:V>YRMZDG@R/?".N$OB?PU,B M_<(IENN<[A7S\96!\+- [U<$UJJGO:,W1=I>PMVOF-='"?'/ N:OH WW(6X_ MK\=_&*]?!.POH<<+4>5PB1TR'BWT)K:[OE &/ J.N- G=.^ZV+PRCHDF%43DG M"CQ1Y+VNO:H+RVWV4?W4RO!C6V'?0%S9Q^+ZW>W2.S9\HFB&WC:-J[4H[^!6 M]/3R/+R*I$7XEOSY[A H/!5PO'I4_,+B>5O')"1M)O#@J#WOSC'1IFY[JG4[MMLCJ,Y%N5"=ZH,+I/,*;VP>/]4\QMDW+^YWCI_95T3'VTYN MAVKC4\D#8/3%%_R<>I/D?[MC'_PWK4W!8:Q9W? B+\C$*] [N.# MQ>4:J:YQCR&DDU.'KK&*[;Y@(B0N%!"F\|C)Q_^?]3NLK[]$D\!N*>7B1YO[+U]^D21(W(:C?7Z5)$S?) MK[I*DSI8IE_!79J[/#09$(R<8@F)1=I\8*+N_SNR)R MQN*YTW/=8*.M(,GN2F8^J&^]9*S%C_'C^'4[G[F>X_N?IP^7/ M'D1>K";PU"M2Y#.WR!R_XQ-U^GT!FOTYMJ?FFKQ)L>_$AP-8CP+:$UHI%]7 MH+9NW[S_S.]S8OG:PA;/RMVGF.'W2- :!&'WEZ<(0:5Z_/P;Q#R'EOS_('R_S MEKPAOJ(6V[&0WWE$3=GUB7RISM6S):X*%ZZ-=BV\@ .N=1F<3+W/74*];@E6 MVI_?@"M1XN]$_B[65K*V"_'0*WC@2UVYJ%"7T/J(*6P,-)>2GO<$^J]2UNY! MJ.0#DX KJ!+0)EI=S 1EG<-3YQ*5)I\'QBAWG=QYINW04W$A/RS"';8\0%B MWW>=^$NTY$"%7J#ZW]L8O6.?[256OO$RHTB@TWMA^%KX? (\FV49=:%1+.:[# MYS)<%;J"O%#D^8X@,6R:H=)G0)&,;$ 4 0EA"@#$#SG$.\=0V5.!ZNPW8^AUAE(YA-/;18F2"R- 1H\ML+$2<4\J5&3Y"(%,4FF?-[1[(W3>0->_D @_Y0Y&%CY(F1YX]" MGGJCP\.E5Z?(BW5.S)4@ !V"T=W^Y? N0IV[[8(!Y<$4#[REFRL?8TSQ[G/[HY1WZGS;G+$>R^ MX[OL_OL7A"[/_A7(<[I'+ ADZO9P%&K3!EY@/%S@?3HUU 7XT=A]0HIDV%[@?A3+J.^$99;1Z+2):QL>U(VF:RM 1=H@$6F&P-F/8A3]G3#J M I3:]Q@"TWV?,? +$R/-6Y+GR_/!2"45>VH?)X4R22A(?3PY_D!W>" L)?.?, M<")6MMC,/\KDK8*); (0F)KQQQ).2.)LD/VSAOU>Z\UF)%':6..@M1IH8:?X ML.'0XCDO*[[M>A*9)-/$QP]5<-|*9LY& (=1/8M=1C"XQNGQ_="%%Z_[*8T$V M@&>/MYFK]U71GQP$26*;8A>6-EDYPS%6!5CU1^ M550.C&6T!2HZMB4 2[/=> [60:(K T^_,I?VNNT 7(]B^XP3J.;'M^@"C8CR* M\>C[XQ%=@XT%>0S\]<'&IT0P!,N\,\[Z7;=ZSD\IU&- BV^7!MG,,/#'P?'_@ M8<)-EX,]%XDA<9;Z,.8PWPESSDND>)LK1IH_$&E8?C751IH/;35+,^D/(PS[MG1#F/,39=_+M (6\WQ()<4FU;X)A0JE0YSIBFQ0A,C^Q&T&VWL'$@=_M(_+$]QE_>$4] MX@M>?O" YJE[DC]?%7R?T$K<)N[&GC@8_(- [#]Y0OC-RDSU(_+E%T]IYB<_] MY!5G]$$XQ75&+_SC1F'TT_LYI_8 M$N#2]VB|QMU*O=X?V$&@0H^5$]UN/^?YG$0^ M;FF3F(]1H(^)6H\K;,-5-X5W4$OF84LEN3&$Y&#:U7L8E\53DZ[3Z*'+3A_U MZ>6GDVP13,J\5MU4*XJ;JG4L=*? OHS[S'=+D!K5A#E]7)TZ^M;"I7GXIT1+^ ML"7IM-1-AC,,L4'FBYG,8E$'QE)B'K%=SC$RQQDGIQRWY:5$A*VZ&$]? KVJ(5X/F6",>9EJB'+;76 M(&!+LFOB)K,0)V21)E,B!RWPXTZU/JV*9#YMZ_.^UZM.- Y7&A6K>JQ(EGE5)6]',Y4+N0]4[0==*0QG.O''3 MY@6ST1[QJYQ=:2Y1TT>,[7'= ['148P$O>QRQDNVN*^*PZ0D6*/Q@E.IF1H[(MVLZRF=G["FCY2%GE3P-55? MKCM6YODS/K9+VWA+V>8*RT%E:2HN6R.#"R M!:-5#J0)PJD3C%VN*CUMD=]D].RH:6URM"WJ'J3_" <:R:VY2,%LXP(51'M,Q M(94OY2:HZ:-I!6X[W\FDV0W.TO+&6):3Q B$31]-*T5LVO6^'5#XW"'4'G61% MJW8'D*XGQ*5;6E22JQS'X@$G<9Z:J<,!G&"L6F\-V?S&&/(]WUO.';^3TGDX M@!.,Y5OC<=%DDVT1LSC3%%>+44N? 2/0)NA9Y64\F 5?C&T&;$-*#L=N%C*5/ M4$!5&FW36T76AUC%IJ6IHNX0#H$Q0826G*Z;DS7:Q,*S)1G?? FM3DGT2=T MRP1!O<[-&R71K*F506I6I*90"^@3Q!HW2VE#QIFEGO7UE#?(=%,;#([UA,*D MG5Q!FU!K02?]3]VJKK()IH^B$31\IC-A<| 5N-=SH+#63"'W87 F#)6JZ5YASW1[V MCJO!]F_=.WI;Y^YU04@V'=ZG^'04\F!]?-"_#?L<&_9R[QWN/X?W]=YN@R)+ M2(07@Q$',:B[IO((KJ4"'WQ)$ *_P9G38;3C@.0'8VB[?S]T%QEY0SX;0(Y9 M%UG6$31=9WL6(>;6LBQ'S:EF7ODG&K/M2UKVODFF+DK4U!EH^MQ,X,&] M@<>W(T=7SBY-DGT%I(? _GHD^+WD&4=?#+X*OEZSR]R9;;!%CBQA;Q$^!?W1C MR>ZT./[SK,C_1?+VG:2+N"&O6K@.KU,]EJH8X:\1X2/CBYX- N7=[@3M.$<_N$_MQ_410 QN-KI@HG"(<9 MHN?0MP@0Z#ERO/E\WO,A@L^=[74&1U?98Y&.1 MC^864K3L6P1L^W-3#:\01]6.PS]0(>2%;&S/GEZE"_P=-.0KG.DW"\[__F-6 MBM3#J2?^T59P(E;>E97PYMC TOPV*CP@PC\DP8?Z)+NJ) HY*:.WR+K>3 7Z M7"/X2F)M2R[_)$(3VZLMK_B/*DQEEATY@D%1Z6%;0\POS_P'XEMD;Q_?V@K_]8*3-7V=X]_)"S9A/0)/&PBR\XM4FS. M4M%_#M2;\[.RZZXA8;NR$8 ?"0^R#80][TZOZ$(J3_9K[:'.KKK]4N#)F743 MG2*E?OQ._TREB)\DP? [SZY@4UQIEBF'CBF#C*A;-GX0:!(D.-:+8MR3D\EVD !D'(C_Q.6,!'=65DP["7LJ4 Q(F$X@)5\Q.& M[7G;FRC^]U69%FX_F;SMYNQ@Y(\#8S_Y^[GO B$_$VA.H?=Z&;I=3+D^3CB> M9=S2R)&*O%8=RE.[7+14? 8D(QR2?)MQAX@,B'KJ)(?H+^N]CG*.$4N>+>D0O MAO7(^!X)Q%WY'1*'%+@V? _XQ3M2!_P140'OL9(SDH.3&4S_A\'X2Z5-N_-4D_\3H$&ETB%ZX[]H]\S<"P#@I=7O3J>GB0H9?F266 M]14" 0"+ "!%)G^RJ>?6|=\R[EIZ 9 A1[Z E@!?(UF)?B5 KS0"\]HAK&] M_#8.9L3!C,]SH2(PW3_-JUH$&^UVAP9[,"A96RAHC/= <)6Y8^]&CLG:,[4*,&5]+T(*QU#/VP,Y3->;GZ3Y>:W M(-(5A+42:-8$>15I6=]")F+%B2,^G^QB[,SE@;7<&LL3GD7? G@_3/#U\=1/\@*>102\R^?4HV1!S\RW70UX/^$K_'CM%:^]XI#. M=\EMVVOW&FKV"3QL+906ERG/?;[0YJOEC- 8:D;T6*O%/P:46_I.D4C\)EHJ3 MV&*0B ,T7XT1%]LO>P$D4EXMTS'L)H$#K)G.,%5?6I="D&!1HBN.XS]IZG$Z MS7>*R- 1D*QC#>04N':B"RS5=A--%SCRVCSK68 8_/[4-("KB*9\3+@I# MY=34(\7=ZFUSI[,GD,ZN]LRFDN%].N8'<[+: [+9']A)=8X1R@Z6EXL 5\(KS*"'70^/4SQ3^Q\6& M=H1,\"L'6"@!'V62-_PI<.\.^]+@TE1(T<$4/=2P:8=7.S0 M@K/4$"JV2/%T^]5D*_F*56HL="'=K2VTH)[JUKC0-/SXG4HG?S)4,@Y Q< 3 M3>!Y,D 5-6I$ '(G7PE%8"W\+ (ET\HO9BX?R7*^E$CVRQ L8*>"5Y3E'6OV\9$'JV M_F/']F4C<<$JD/%:+5ZKQ4&B*P\2O;0J:T_7*| (C:AI>*>!$MIGI!O,\7)71 MX;DQ^B?+$C_Q)!U'A&*4B2;*Q!&A"$2$7D*9\KQ1%Y7\X9AP)BH+V_5G'1J[C;-D3\[_J& [9B7;DV7;F*(U:O5)7(+]SQVK/1_ZO&"^&C1^3-=;0?R8-TT9,OG+!5= ."@DP6G3U "H=K0ZX5\ M@ N& (,_%!K8I&RV)"&L,IWX2*91I=L%3UK'J_ZFJ'Y\L.G^NZ9M4OU%*5YN\ MPM?%.3"ZB\!F/"(U0:K/(M7'D^3/U 4.3T?

G7M.OAN0A+/SE)7@>R!1!O] M#+/'F @_A,Y/O/SYHY8_WX)N5Q%TN'+/ZPXY0N (<:,QAJ@1@L8)_-V8ZRE> M7["^KM'*
*'C^J_;$'_#,L1).OD3Q^/R-E%2HAA|OF|4Y]I]O[>"SYHOC$I\ M9Y#C,9FB:TR%U O<$H$/NEH")^#*C[FF%).W'R"7?*
73AS7 MBA>W<5PKDMY5R8+CF6@C8PMI'M13?J48 2)JP;;5I688)W"NH+.3(;#;2UQ+
MSYM5>|33[HR3B'28L_LS1<.%;NJ";LQ!/RI$!#'M\Y?#/!=$,!L!M[0F]8I ML;">%_TT@65G6@M!*
"JM_),EX4J+2/UI<:X.4:6;=B3=:*J*6$-G;C(F#3D9!]OI F')-IP?&%FX(LNJ?X.;R,@2,&CC]*^A:?:V/ 4$N69B4X M.&[-*
*@W.)5Y??9'7Y+8AT#:&J^*ZL6'&B1J0XP'/N]*6/+7 H .AN9KP.MI MT(H&|-6R"FF7*
SYP3_DJ!G>EIMIX$6=&W$W=NF1BC=E5E9 M69E];E$:]91!T9#0M/$Q1A=0#"]@]$M7A0&V &SY)&QY8[8G!YS(;2OQ
M$]@";0=*ERK.*)&4]+H;24*K--PDV))T(2 +"$X52/KK)G@R(1S8<.8==0&3 M0,8'&" PP+PR"61|KC'C|X!]BA;';?[?
*YX":/%ODF_R Y_IW;+M|UQ|(I49- M:):Y7O__N^.Z(C^8@-Q0#H L!VIWNW?!|HQ2P-Z O7WU*U3/D']I[C95?]-7W*
M0RN;IIP:@:F=]M@&X,)7;5"1PXL_;S1YH/) Y?.Y|\V7D|N!@W^)5%91DLL[MP5U'WB67>D#X"|+?
*SZLTR!,J7'LAP=&PCW;]PJS3>1T=P#HSY02FZ-96LQ)4 MZG4E-&V!2S-,@2114%4 8"(_10-?$"7.5Q/P5IAP^^Y*VX|F*
J%I\?MN+13V M LDF,)'> 2HN">85)!GI1:=#79=S7UKJ>M-3|P>C?RU+41%FQ='Q=5:-Q<3J$+%>)8VI<69*
HV]5.|$#!X8 M_(UD/ZX]@GFKP6N(Z2^&F_8.'HG"6-J)V&!EI0:?!#!T;/#,5^M$$@=_?A3'
*M,]QVF3:?!;LZL*N[W5J#O"+C&3- B74_.+1|'AR+$XQ>;Q=:W^JS"S]JR'"S M#W63%\/2&_XP6<#AE_ 1 8 C*]>+''MD=1[*
*,-93".G6*_7K:IKJK4=7"WN MVD8"&&E#?QR) 0-_:73:]:>##FUYDRF5%2W^D)+G.&;:9Q9L$|$V\2ODA4!#*
M6#N("N2+U^>]H[_Y9D2Q_3;+SWOS5'%*7:X&2^+VJ@[[#5;3"P^(WFU0X,O M&$[^^VKID4-*
*&*9U.>.C9.I"W&JB4R0L2YEQ[0++DFI(EJ6F_>@B^0A2,5+6Z M82-03.>N-G'1N1@9*
M|9DQ195FVP2H(@#*IPL4"AUT[F17Z.P[])9V'?I,&S(TRQ_N^P;0#.|>+ MPN#G=5:^"28>PS#0G_IBG?*
*#O023%D%^H\3SJVBSJT@CJQ]O8=:<3+?ISG!S& MJ(LEX1D!DP6,.F,I,[? $*7:1L",.AR|=Z[0L"IG^YR+'O?*
EC/8<[/'.E6=Z4\%C:8EXR:M4F)D"D=_>4R09E@#&PPKQ&# =] :@A8[E7Q#5@N2 V! MU-"KJ:&FYQK00/,=D!:ZT2LP-*
\$D,-L'&" PP,^."KZH_5U#UB+OY.&H5U!N>:2@TR#=?O@ZZ[;G"S=Z5PBT"V7+[>PW?O\DN?*
*\LR,'N[0+5$$_L1UKJBUKQ)2&"]$<]A8"4S0Z/7LCX?"A_)E& MJ0)*TB"C!" FGQ #\D YR .]*
C$EV5VHPGK(:1VUC%6"EF6P*<2D!=,8@<4P M@W_9G$^^JJ.OA6M@#YIC)H$D$#! 8(@"0220!=) O5#3['F\?
*>:'_Q_=]PJ M2FN60![HTV$]YTKUQ3I9/T/_R;@ ; 782CZO%IW+5'*W,7^W6),A&IY[EWK0*
M.^CN_[V<=RF;:U/5TJQ+,)=]+9"(,A70+6B+B5"17"#>6G$7+?:CZ5V^77E' M]N5 0TI"1_8%OQ_*H:8.93O2.IK?
3U[T<5:F+?N^U.V4.B8V4B.C!!]RI3* M$U]F8S&MT3;/<[O5%J*@M:TB;/?3-"?E4,!&X=SS8TM2GV36*
M9-.O[83%2.@H381]Z[/;3>;US3F[RF_C+Z\B?3!6->YRKZ)B=5R%:HN!BUK M%<1Z@AQ&Z#PS1N>QMAPX<"?*
*_^JQ_;D%K^""(GF$;Q3BPX5#E*2=, [^-166> MK\0:0Y(%&,,+%)F=/7K/)#-]:CJEYP9X)$1AD+QG[.V>9-2B*Z'4;B-[XLAO*
M5G1AJR\7LQB,2: $T0!9K(MB.X9Y?U^])T<_ZC?U2-7._AJ#"X[*1\Q.%8X.FNF%U2X2S+I-8U;TVNY*
M:92@G;6;#-7(KE:\JI%H7,PEE"@@%/("+-'Q]XMS6HS8[@3%*
*(BP[#9\0HSDE=ED)3ZU>2EV8HVR!7#'+%X%SE5B*AWW:>F#GO'HW\"9 T MV\O6AJG60ZO16)A$V1S!BS &23P)B#*
:+> D6D#P,S8+!H ! ./J#Y>N/9QZ M.V"LH,Y"AQQW!,NA6U'T\JHNMKH)8,11%491!81F"O2+@"']1VRLHD1.9"?'
*M,7=E33<5,P2[1+!+O+V,4(;8N_^YJD"HIX5R3*_*R;X;,S)X8+A'NXTA+J;\ MO]^@)[.&S#I' C? T &MQ<*
MSNA28'"V.=C:-#O#VA#Q-BB:)9WW,:O,6S)2-$@CGQ0!BLP-%Z@F.S S'_?*
M>%9IX&MR$/F[0\E1X4X.8Z$&X356C]R3DE)RS#&F;_?D<>-POYP-60R"1@^*
M4_2^;M6&I>Y5UHZ\C_#/AAOY%:K*Y++1GU3G3<;',5^^TE0S#.]CIZK&OEU MMG^'P86[7R?*
Z]V>O=QB2_O:$)ZX@WP!NYX(& -<>V#^!5|^= |WT5M4HC4.% M6]4YQQ2%4A7I=R66T(PFH16%A#G:)
(A#OA%Q^_80)0X8|<0.K1@,MQ$-56HP&2Y7_;ZW M[VXQ5L+3D2,84[PG;:WB100W[[2XXF5L=39-!?EM'=@#H
=3X===Z8 M-,H!)W(.I>8+/)6U%E+L[7='8Q5.(+97KC?MF?C#9N@3I)#(I,+V@62?FE(M=AH5_B>48Z&>-
_XUW=B,PU0['BC-.W !0=|.#&=7/B6F1?/_H PC'Y,VF&MW
MLJ)X3OQ>NZ1_F.N%21#JQ[]V[|SX"88?!ZA+V0^3:O=PK@5:HG!I8C:]0ZJ; MKNPJ9KPH2'I\.O'G!-]/0^%K"/Z\:)
*+RN&R;ZF:P=*6=XFI:']\ZANT]B^(M>Y*VM[H^U5S__-_XR_U+*+8F^PG2SQ_9#99\S-*
*'CP?"_+K//=K'D64C,;U<$*9[M^3_N_?^D.V- MO N.5%/,]R2D3EW9CU\N*V'+'0)_QXA_W3WX/F%/AK>.O(4>-*
YJ8!";_D#1;ZGN!'_>"0(1V)O?"F1 M/8HLL-|"^E_Y;NXG7N__#H32DU:6?!^;2NS=[#^2]<=?Q?B7>)4$V4J)$XVA
MZY<"RV]1XC]Y_A1+Y=0/2CI&:O'_,(G!55G"U9DF,; "2S0!SQA)A4,4JN#_?(RI6ACK7!I7)?*
$/!'\GWF4=]\S'G\AJ_*G]F1S'HX|^ M_.NA..7'=R6AUQ%Z[(7VK^R&P=^E81V7VCR97; E?N#^&N+:P_Z0J548]M5
*MKL^W^['$&S7A"['L(4ON?O/D3JC<';ERQ[?OCGQIEKE>/X%DA/KGCNN*_&#R MB\,70];G8ZJ4,>3;,F3_([IRI,:[O7?*
YR;AQ#[[:/J"BNT LL2RC":A),8 M*3$J2DDS!-=FN*:I)$D=]5B^#YHG@HH$TTEQ8NT4%&EO83@P)UTICND?K_1'*
M8>B,17K-5>>MUJ+DD5'2U9FGDG/D.FN-G/V5F-.E:J8V5+$1;(2@1\OY4D- MK>T4%^;Z?MF$MZ71=K9.EV*/E[*=ZH*
*?V,B46S4-B:9+1LPQ0T*S;XI2G:(B M]T).',WIFF1I B&66)M.=5,*>3[-*
K5G^P39]/%Z*QXYU4L<:BDAB2\%OF[BRM;K)4OKQTN[*$#;1!&W# M$(HU>FQEQS:VAH1)F5>MFLW1"JY7:W*
T[C..+7"D4$U69CC5&J]-7(N5B]L) M/7ZV+B\'':P;K\QPRIV[^*I=T:J-5D8SDF1GQ
*M]WAW'C']"DY%5%K0[45ON5*S0:;+,U07^'(1C"(W NM>%9K1])D$=T)2I+/0GW&-6J*
M^I'8F/;J\Z#HU[AZLC)C4KOZ)'-[0*Q2@N_C0S8V;9?9>.5&9,J8NU%;:PB MHB7C6C1 MA!?*
E(QX9=:DW/(69ZI3U!&=BK[M&=LYVD#3I1F>SN$ECVI.T^96 M5]NU=+O06F:3S_]E4FDFY-:!T_Y;%
(OWCT<'X%1WW'DI7/-!Q'V@X=[\0-U MV]O<^]G[GZ$D,_CCL)W:Q!QX=3OSZ^_R+/#L-3^278V%]MVGCBR>+ G_7""*
*M&7VQW./,8GF03\]*Z&M+AOQ.,D R>90,\IU\L4812.;S)(/@0#)YE S^'46! M9/(HF1C-:""9?$H&H%D^)4.]-"5[M>/GF_=*
*'[JVQZ)U<4STY^^=]O^+>_Y1#VG?I5%9_+KD!/ MA+]3XI];\FE'";PGO#Z!CIST3A7/8%?([DHV[*K:'?0 M';OT3?ON,#*
<$M@.VXHV2QGN=Z>A7=%@!6W_T3:2;U?>,VXD)46(PB A+I;%4]-& M:K36'JB|
9M+V]@OM:Y,=9)F)NBWGR11P&"\0)VG/>TAOY"O]K0YR,H>-,8$$#L/A"8$'E9N0./1+$^)]<049/"^68)63?3?F3'#$"F-
M6!N_#S 0S!]-K&X)E+MG_ $'[8,9O'1\Y5^XIW_LS8F MSXNU9G?#C45'KY-U<;0BFFR2 DC:1!*Q9R:IK%*
<&]@7<\E]>>@9JM\W@U\Z':W]"2P2,NQY/T:&A.44$IC<>;; M3PHK(!A30-&7S@K^XDSQ4W4W90M4E --O4O
*67,#.14FMTV^UVZIQ/9DIX+7 M;Y/OV!"4(S_5B*2E_<$P!]Z#\9,?S>_WC0J[,#!L+):6;-VHB)N&CG8_L"]([*
MGLT'0:2I\9O'HNG$+/:4PW8A_9HJ^T-=K_I>$#R!!F-O[?5$N+NV4S4NQ9 M?=^4V)@/: P&*%.*
*X>RF_![JDJ_&T=\&9KS6H_9:,..M?OS3 >/=84$6+H:R M'6GO0XOJ?D*VHD6+@TG*Q/;8J(C:PV1F")&BQ?F2_@*
*I;@4I7NN8")#BKT\# M.7P3#M9=JF?U[9F]F5>97ECY6(;_)*A!DJO>6I3VG&5.:@8^:OLN,TU0@TY2 M##3%%##BC.4&*
*#L =EP(.]*Q@>@I2,U-&?;)3IJ V #B7)WJOM;=$:@N4-W< MJNZ9^T)<5Z"]"6U766A;2RR-*
HSE.8$^I7*PI2Z6+)A\&I<:YD];-&CY8U$)&E[AC[79AI<]+F6X_H3)_9S M0%YN*
XLKRO6_$5R(>8L3NUY(<$Y4ZFWZJ.$)I01EQ$N +3/UOEKN'X!=![H_.D/,W) 7F[W"A<\WWAC?-^I-\KKZ61@68TR
*MHB\UJMYM]=@XOD]/-F[H?D%;"^^:7G"Z XM;L=F<-^:^J-,"Y>X'#Y4S=3AK MUCQGM(*R$J#ZETJWY(Q6H/I*
*]8'J7Z))PDF/-)YI922&-EKL]^9+#II[!(*5 M[&))^.N]3AR^\Z[B.5KS4*'U;*^$(3_2Q C"45'C*4Q]\/QR&%CXI(N1CA<*
M(!&T@##96JW3-4NX#3O)?2M^X" BSAK[C9GM +5!ZI_J11NSFC-5W1TVB3N MFP,;5S+)ANKN!:*
[4]Y.J4UNL5UTC"6R8MP8V-U"%_L8Y$_7(U0Y&@<&%PS=@ MXL2'];_Q 4LQ@75BV:VED=@N-*
*1(BM/5F&IH;V!4T(G.D9[8$KRJ6))FQGE' M4M">KIMU>@=;#;3E3G2>IE:$(5'I2 JR &-X@2+/U3("5*J_XX@X=[;W!]O.*
*M.K,B=Z1_=FNZ2V+.R5O;K9;52D]1*PV.=(4Z[$KZJ([.SPL]=6V*ZMOMS(&%9;C N%4P!_ /X*
_/GD#MXG/HW:S0@9@I(.F,$!D.?BR//,39O^"TE=/N #+3OG;$ M4):
*[ZXWEK,7JP)C@XQJ1!OY,'/@3!1RF"@CRZBV;_X1R+,)/,.HWFK&BPA-,H+N555|VA7E@]??3Z2H,*V/),>*5U..5XR[C>|OY*
*H(C M"ZUM(RAV+L/DF0C|>"D<+*I02:^07&E8Y;3=GFLSLVZR%'N\M,?"+9D<;F38 MH2 N-(UJHP=O)#3[IDI4EF/'A*

U@2+ G:QIAEO-9LA)_O'+;J!51<[ACN>]* MKTA]N;2NI<_,T%1M3;D:S)!C"YUU2^H07?B-
F'KT"9H4BF0Z+4%4G5^IOLKN)G#4BF7J]&V#ZRMJ4)P,P4VV9(TD!3:%>KID)T,^>T9%PH
M+Q7[I8X]F4_G%N1*=65]J:.HE"[-"'5 J8%0V;19L22A5,F>KRK$,%U*/E[: MP- >:_0[&E<:2'ME.NLT4-
:0B.RK3JM>.%4&TYH%!6A4::I2V/6ZR37!S*LV MM0;>ZO 18YF=#3UF&T)
N$G'D.RKJJ5R=2QT\8ZX*LX9V%N0")8V%\F^:BF< M-25Q.E4LD]SNIM/IQ)[7D[+>S*ONAV-
LW&>9F;4+2:TKL.B0G&_BE1E#Y9PN MJ;3M.*0;*0P1N26_M#>[\L7M]T!A)C)6\:)9ZV>PM9&TJ
M&5:I+M>M[R)A6XY>E4AR'&$F8+9K?LH4U[D(:^F8^/5%:4%^*P8Y'B M5.8] 9WU&NG2#$\;U-Q39\O=EG-
V*Z73V0#I1%)^IMC1 G#_TI\8.C? M?^J]GSSXQE-<=57-]1,/]^('ZK:WN?>S]S]#2=#W8Q;OB"QH$W/@GZ47I&V:Q' /R
M](,S$OK:DGEMDAF0S.?9S,L7HH%D/D\R+[= !Y+Y+,F\-F,-2.83T>S%JRQ M,@#-@&3>-\L)2 :@&9 ,0+/KD Q
L[Q*!J!97B7SVEA (!E@,T R(*X#LF\ M-BD22 :@&9 ,0+/KD,QKPT.!9#XHF=?[I=R+Z$)MKC]6E9OIF'*A,MTS=\M^
MFBD/"D\5S0TU_US%RXIG)[_\[S?!V]]R"/M.8;GNNO0D!U_JQ',HVS_<\DI+
M94_6>>=3^I%=7IG0OU4F^COYX@%D_G3E]S5QH"1 29Y3$D6)G"B.0S05:,FE
M_!+QG;@MMW1_M>P.^*3+W,X"7'G?ENVJN0*V2]>P77IKMR"TI0M+L#.*/R8]C MSS.@%E]>+0W4CV=W=(X0[,9?
CP7(;K;^KS[JZ&""IAZ7 6[,,]T&M2G1IL M:L. BX(Z;'6+4$/:GKB=X>/.0'AYH'8K!BMS?0$5&D@(BWTUZ5*2S%T@"AB,
M%R@:!G,7/K^9V-7W"GMVK,+UH\;[6H%=%#).WDN,; ?NH!J*/%PB6PUAVROQ
M8COI@$3<(P9H6P[0XGQ=R0%:G&3J0:LN&OI^VQ^*4+VN[BO(P!W2YT6..4Y5 MEYTZ5Q'1[GK3<&?R; PER)%,/:"H
D(S!1I,/0#P\47@XY^S=3S^:\QX9FB! MWPL7+D+)96Y77+O#;J>I=Z,+]3LFI8XS\1R;CI9;S]I.(G$"S3QTB;^
M+PX7/U5Y4[9 13G0U+L$G34WD%-I^V6:FU/=CAX_4;YCCU!.?)3C4CF M-1QF? R\$\Y&9CHKDQ]
[@@VQSVL[\W'M4WK(SN#Y-E\$$2:&K]Y+)I.S&)/ M/6P8TJ^ILC_4];KO!<$3:#" RML*W9ZKW(ALM0;,?*(Y&T/"D^-
#"F4*,$R< M[^P0>/I;P8S7FM5>"V:\U9%_.F"\.RS(PL50MB/M?6BQ=IJ,6RQ&H2AKAK'@ M6MM:>=2-T8)(T>)\B7^
%+>"%*^U3@1(\=YK;1Z!Z@+5S:WJGKE!Q'4%VL.>:;7+CMO@=E.D
M%Q6[I9FP^%@%S$F"8*TQYC003O6KL>S@\FDMZ8ZR98Z2<+:;]"38B&&&!C #8.9+P\RILWHYH/Z<1PLY(._+"!<
VF?K_#5< MP Z#W3^](<9.2 OMWN%"YYOO#&^7TZ#T.Q!%0B6(VGKSO?"%"\F.TM?"NZ06G.["X%9O->8?
NBSHM4.Y^\% Y4X>S9LUS1BLH*P&J?ZET M2\YH!:H/5!^H_B7:))ST2..9;D:-.MRUYBW#%$G*[6*V H<1OOG;O4X-M+$
MDA5R\,Z(&-)BD\"&>6M@>Z]@TJU=]Q1)P[V_N#;6>=7)$[TC^[-]TE M,>?DK>V4@XA!Y25 KCYQ-[UN2/]6N'FY5IW
MC^?&>[EIS5Z$Z'6[>E!Z:]/H][7OYL>A;!< MUR ;7DU:9(->-);%_B;&G>1("L/Q
AG_1Y#9_@'7VL$[#W<+;M6*+I:@>+X7 MOMX=628SL-=BP^P41_QN+6^&)YZ@^:PQK4FZ8I97C8:U:U0'2 _F?1]+?
#B8 MH0$\^&4]^+-W/')'^E5Y\(\ S_F1,(G:U%J[_;+%F^/7#:RFEW (\Q@]-H3W($H@]# M=-0HNVBC7.FDL0H3!_Y$ 8>I
H*\>LOF/Z$WBH>+[F MC-CDV/WQRJ'6[BF0:B_$E;CTUGQM*A9;FW@E]7BE$4[UIHF37;'?%)6B*LV%
M1C5Y)@(_7LI)QJ82EGH543:T,JT2@:M6TJ78XZ5=;%_>4U4&YT@;H3M65QYR MTZZ$9M]TYW5,2^Q[,CSBHC6R#\-
>F]C$*_''*Y>#<>Q3C#T.1\,)U9OCW8X^ M2U9F:!J:LWFS7Q$I>$4I8]ICQMO&C1&OS-)$[SM#S\/[+4O0= LIAA2V5I,7
MS=*D0O8(X81Z'Q:H!N2[2&^]:+#)4N+Q4CP:3:?$IM*S1E-G5 X7@6 +Z0O0 MCY?6$&10*9I%PXIZ9E.5=A2G;I+9-
9E7+!UCM%EP9 ^M*LK,;.SWR3,SG.(K$Y. Q9(L:AI;6I,=T;,:R3.SG)HS M.[:XMSC'JN)SF_-
:,V/+I7.U,N2'DNS5QW.GP9'[16/4&0^%V<1(EF;(CX;F M&L)]CQ0=;
(&OAIM1S=@EPSHRGT^@NM%NC=:.Y>QJG>80W2)8,VFYG>0%'M&/ M]1&G(0PGXFA5';2\|FA4V[')THQ0M5*M'DW:
T(D84OQEY60J7CI4O+Q4AMI M-;5*V=S#*[I1F6"H9O+MY/)?YE4;^UH/7G5LW'*6395C]|50G2?=AK*ONI=@ MA]\0$
Q7$7-1,FL-M=5(.H9D7S58BG!3[C@3J]1KK#%S;%-#+GUJYE5[.Q@; M#!H3SHI\ 95JM0IAS)/JE\RKVC:\Y6>ZOQ-
7(]W3BAR.(M$F7IDQU'Z#:1F: M:#K6B!-74[2KU*>=9&5&_,1$F^O!8%RR=E!M;R(=_'HK#9+7:!
M)5.XW6K/*,T:IN7'&>JMQM# K.9*X4BCU)YW%O/N!$L+>C+4NQ4(ZC<'I9U(M-IKH:DE 2W6:.)(,]L_4U.W=^Z)C9*-
XMBTO ^W' M_3R-3U\&/E :422_N884<+POQ(?&/KWGWKO M)P^^\117755S_<3#O?
B!NNUM[OWL_<]0$O3]F,4[(@O:Q!SX9^D%Z9G*#U^S MY=!<:X^>^>OO\BSP["C4_HG?
[0D2/W&#@+QC@Q!3]NOK6>_LGEDLQX |_>", MA+ZV9%Z;9 8D\WDV_*%:""9SY/,RRW0@60^2S*OS5@#DOE$-
'OQ*@N0#$ S M()GWS7("D@%H!B0#T.PZ) /0+*^2 6B65\F\-A802 ;8#) ,B "N0S*O38H$ MD@%H!B0#T.PZ)//:\%
@F0]*YO5^*? "9/UWY?4T<* E0DN>41%$B)XKC$$T%6G(IOT1\ M)V[++=U?+;L#/NDRM[, 5]ZW9;MJKH#MTC5LE]
[:G"'[]2N,&WJW2SDT+SB= M*SGO"*(3"?_C$2CQ'2-O2Q%8QXO<\%IBBMPHPF$KIV M6K PD!RZ
G$C%CIQ+\/';8$&4Y\5)&);A8656NYSE,>30M),)!FZ@!4HFBK0 M1+8;*!BZ1\Q=.QQ*N6-]I;3&S)1!6U& M,SCI:43<
P9H60[XGP=R0%8G&+@P=S8<]5MRZS!U8$!MTK[QG03G'?@ ;9W MET0<3%G<;EV--+8K-5I$ AS)P .2*- D7<
!>@#T^"+H\<_9FAW_+60\,ZZ MIU<503%+A"77RD;/Q9HD/3DM5CS;Z;@<1-HP=!T4;LSYX0BAV[#))KT6DUY_M*
($78(HLH$QV*ASH=7PVV'AVS,&5&M?%=OS/-Q.G5DY%J@Q*PW@7WII#*W54 M6>\O-
<5@.9_01=2LFUR)ZRRQ/>Y.H%7:I11,,0!N^91N^=DA!5>*')=QRQ^! MC?-YYAU%Z[X^).IP9 1X:|
5&6.1H@:800!PX]2X\&H!A]WLQ?:VYWB(G-UQCZ2KT1*_4Q5':HISY]A.!F0(6QPHX M]=+(U+\X5/Q4Y4WY
A7E0%/O$G36W$!.IDS05:OQ MF\>BZ<0L]M3#?B']FBK[0UVO^EX0/ $'&R[T^AU![8K5O3WF%A%'SYQD8@#Z
M[2<3.W^4.-^I(7#TMP(9K_6HO1;(>*L?_W2\>'=8D$6+H6Q'VOO 0F_Q1:$O MS=HPU-GVL'T]' S7W9@)1 P69\SY
Z"X%:!XK6$B (J_/@RL;I:FQ4_9)B=, M&X+3="*FWF,_'S2P2E7'3 3JBZMF''L1-"%Z80(:R8EA :&9 @F3 #L =EP]
M=B320!?3D)J;*NR3'30!L0'$N3K5?:VY(U!=H+JY5=TSMX6XKD!;UWFK;8\J M*QCMJ'-,G73!,?NN*$HC991%%
<5M5.DB1D<-9/1GND\WS0ZIF#L MM+GX')S 9-/S=\+RF)+7?,4,DHN-X/H.N+[SQ5+WR1\/AA#<&X+Z!&H8&C0: MU-
M]!Y;1<3F4U9;FIK-ST6_$;Q G&T_#:[Z7,N!_8E3^SD@+[>QQ15E^]^(M+W!WJX2BL;2X/FZ6.[VM+9AT@B]$C"_G.A
$Q4!?#ENNH<#_FK E-P<$;\09 M'*U(]@0C8\9>AE2",_0ACL&R%!SI_^5','Y.5VPW#!@XXW!OG]ZG S--MF"/?7.
(BC?/RERL%KNVO0UL*[IA><[OCB5@PWYUVZ+^]Y0.W[P4WE M3!W.FD#/&:V@R 2H_J5R+CFC%:@^4'V@^I?
HF'#2PXUG^AHUFI6HW]>J*H@NIMEYOT/"O3T_C\)UW%<_1FH=ZK6<;)T23;;O5F;,$O-LK6P^FW0&SWL3$ M)2V-F
*,XP4&A<_8..$VS"3W;?F!AP >XJSYVYS1"E0?J/ZETK@YHS5?P=%I M$[EOCFOD8105N2X]A2$Z\+
<=JSP,B&X2US!OC&MNH"+]C2,GZI&KW6$P&#EQ M@IKU/\$ B\%]:*9K>41#2XUD^)T):;[(A*X@C/JY(M_^S>=)?
$G)/WMIO.=N/Q=C(:<;N>@GL#95%EAYL8)TG+0]N!O./W:AY#7K"40\;S3LV+YJ3>AN7
M!RCG.FP,/>E$A;26\8W8YY5ZC5/&W:!K7&B$1JDA"V*O6]S!*,2T MR@-7;TF5)&,!1F@
#WY9#_[LY8[M=6#5O5*Y)CKVI OO>VR#KYTWU2G7 M>:RRZ^\7G.D/#'NU7E7[O23?[T1
M<;ONN#ORB,W0#S:Q2@1^O+2KDW.]MB!]&*UNX+TSKW%5+%V*/5X:JN)4X+&E M;Y&3*ER2=6-
GTAL)S;YIVQ'@#J-6^Z*I=,=3W)[TE@LC7HD_7HGL)W45W4AS M<;%$M:N%Z._GT+$T-N;OEUBO)$.5(MC-
Q!:$],GEHEB94LL>\L1RN8,=G\1;.=PT8[R9+B<=+A\&<:M>8V0PN\1V-
M;^U&]860+J4S_*_ZP0AI\KWX72V5KBW6_'203*_)O*K::CJA/YDU+$==DEP' M+A4WBV1EAE,:.1%-3M-(*",TDJS,
<$J6?"M$K H.-\RUQ'K]V1:: MI',L,Q_VTG[H20ONM8NV@U#<\)ZE7FZ-$-^@$[PSI!U.5'0[1F/[]%!='AJ
MAOR0UZ=UK\MVQ,9Z'\Y]):)[@Z27=N;S>[W14)XW]W-K)\6,.)IS;.HF*Y/$
MP)]+77^DTX'9(:RJM:OOY]Z^L:TE(T"R0H5;Q956WX2.J*TI;U0B&U.=9Y.E M9,:F4$1:NC2VL(0-
S\]\NC*85KL2D7W5=;/'L.79S(7[?9S&T9E4MK'T@F#F M5>5!JZ_.B<7$TNIJ=]I URTY%C_QQ*M&=BAI+9OMBJ6]/&OH
50*=\GG9U^U M7ME$B[JRTBUA2)K4RJG-2G92RYMYU>*2]WOCL#L49=E9MM>>$^S;;+PR8ZBT M,
O"8#C%N08!+2)#\>66DZS,:O].:],=&!W!I1HA[X+*LL-ODXJ;C/1G0WS?
M:VR,L25(V+!MBUND);+'FN,_EVI6J*^D=L_BT*46$BV^+-)8$E)F2.)&7KA& MA)+"-8;6L%]A]+
J2/Q[3_[D2UY$ZOFWIKK5:!8I96;2MM3M?^7-GB!QT4 M5LP:',WKMM>A9RNF=4R&_[FR*CI3NA26MV*,OZUY! 5:'I[?
*\GZS,H(3*K0;E$;ZCX0CR2JMZTT!0-EF908E5JTQMN@NKS95\ M:-NP=^O I+KQRBQ*($ZI6E^0O&N-!$,>N&N:-

*UDV69KAJ3[;-0;[ZF)D-;KS M9A"5X5T#3I?>,S7UY/?N]1BM*9YMR|M ^W'_S4./3<9>^>BL'7D+I1&.^RMX M@VQ-#Q]&YO[MT.'^9R@)9'_,XEV>!6UB#ORS](+TG.B'K]ER:*ZU1_\]7=Y%GAV%&K_Q._V M!(F?N.E!WK'IB2G[]?6L=X_/+);C)B/]X(R$OK9D7IO.!B3S>3;S\L5N()G/ MD|S+C=V!9#Y+,J\-C@.2^40T>_%.#I ,0#,@F?=-J *2 6@&) /0[#HD]L MKY(!:)97R;PV[!!(!M@,D R(*Y#,J_-OP22 6@&) /0[#HD\]I(5""9#TKF M]6_)^LF]"F-U2ZO3.C?*A/]G7SQ #)_ MNO+[ZCM0$J DSRF)HD1.%, &\2@0=K5]S][=E3$]:/&^]J;710R3MX? M;<)Y;OP>2 R-,W(R%4*V-T39&#&(>\0 K=@!6IROTSIBY-,D6B9,X&- M'/.9YR]<*71H&:1%-_IX]=J;\H7]"@'FGJ7P+/F!G(J M3FZ;?*_=4K'MR4X'K]\JW[$I*$=^JA')#(K#X)*!=|*!STLC8LC!C(5@>:PH MIK%'I[7H(P>#R;/Y((@T-7[S6#2=F,6>>M@QI%]397^HZU7?"X*G(@!CUZMT MYO@2EENM.:..[#I72Z8AH-]^,F2!.-M@UO.6)U^-I[\-R'BM6>VU0,9;'?FG MX\6[PX(L6@QE.]+>!Q:MX;)2[W4YS1K5VI@I])D&YR1#3H@8+*CSY?T!4-P* M4+S6.1$ Q5\?".*-K4@MT2EK[?1NO\SUQL2&_U@>X22@P;G61ME-*H%5]M*6 M)G>+>ZZ=#%&BO_V, PP"+F!T-C<)L -@Q[5A1R(]!#T%J;DIQS[961,0&T"< MJU/=U[H\ M4%JIM;U3US?XCK"K01I#U;>KS1@D>]-NY;C%?6UQ]+M)\D.%X1ME65#6#@RO-+1SD3")IRCIQ-&F?OH&'^Q?/\&;OJDW+P3EL>4O.8K9I#<< 2W M>, MGB^6ND_^>#"$X-X0U"=0HT03?FG66=IPOS.;F-+:XHV_]&?)%HI&,:U4X@FHKJ-IL!0HN;!%^(M&%_.=9D05 -].6RYAB+_:|*6W!P0O!%GMD.#UQKN'N.$>LVJJ\TRO*'9&&?H M&&?P H&^5(4$L9@S8UCS:G3>SF@_IQG##D@[\L(%P#:9^O\-5S$ #H/=/[T MIQHY("^W&X8+'G2\,<@/YN$.Y=;;M;4;,F.F0CAM&TJ"_/3"01SEXR]5#E[; M78-.Y"MS.8@?Z.EWCZ<$@&L&UW3-X*3."I2[W]#A>N[+W4%="%!=4$0)5!>H M+E#=SQ9;[NI_W],=XK,*49YO%Z$0BNJ@0ZC*D9PFK(+1G,&A#Q2D_/%)AS(4 M5HE?S4\W<\]VCM@7A<#%B](UB9LJ5SJ!^&,[<;T)@UG$(0HP#!\QKX1 -5O M!1YR5V/]'GCXE%/>CV##6Y(_ZVAOO@0+:?;G"4AH,^T.ZPVL M$50G-XDI,V\RY1NH2F]KX5W3"T =^M_7H>=XR,JE<[_@H/*M!Y5Y4YH+5U7G MC7QPN]L)B([6/-PD?C8SJQ2;PUV+]WL6.?+I#55!UES 2E3:;Q]A"BA- M% @X.^3G6IOZYJ',^(JL"7@@X(%R4::<-_*!S0";R8W-/%/FG#?R\Q6UG;;V M^XP^ RCF6_%MSM/,^1]&C<5&K7K1S-;R:-67FLI\NNX*^R(2N((SZG*K(@I#5*3P+G_BL4R/M$:&^V$MUH]XWK)7&&G,6&J_%Q4:BCT.9:88NT/09AS*#X"&'5O4'CTXXCSEOM='[V>)5+0L?)I[,LY45CI<[:L&C6*ZL!CTD\@W9CY"".R''&[BL -7)H32=' MC6-&.&]T7BMJO-QR)>CK8M_?EU2KA-=YTO+@9C _[Y!F7.%M86U0:['DF5A; M;O6[OF_$")(.:68*,(46R+--=0$P F DIS!RCH3$Q[#CF7.CJ1QR;2E0< [J MZG6";P,N:(\MY*=2SJL.8Y $!0IH$_T@+N* M.M[+'Q7=J'U<;#__?*V[WQ$6TEK&-V*?5^HU3AEW@ZYQH7'+H8K,+$VKK2VM MV;/PR-X8_6[B9)/;+P3%G'G<,G"Q.32MD[O8X\E9WNB|*A?[$?PXGY>=+CR.M%NLKC.M[[F)L8J8HMY-=_F'L,DZ1!0)& (#G%,6+>Z,S/5K^U#JRZ5RK7M1,>>=.%]CVWPM?,F^%9CJE7N;O4*C$]"YPY(?#":I*:?'!;"6(' Z (-9V>N M/SHL_$\HQS+\!'M]HX6>7764&.LU__ ;TXW?(_R!D65OJ9K!TI9WB15H?WPJO Q?^]"_(.Y) MVM[JCU1S_?-_XR_W+Z'8FNPG #T_ONDO_$T^YNB&8/A?9W2Y65MYUC3P!T2D M7__/0UI^UZ% BF=[_H][Q_& R.,'HZD/,31H%L==%B3K*N)2\'GC!U!/^%L__MRG=S/_%?_W<@E)XTL>3[V$YB1V7_\[BX_BK&/P2;Y' 6BEQAS%N_=)>^2T: M_"?OGV*IG#HX2<??3A7P_% M*3^^*PF]CM!C![S0_E4$<^!726CWA29?9@=_.?&+=1?#RX>Q1=;GO%0"]3^B*T=J'):K_S[W M:W\X4CM:+J,J"($PE*3BFB[A)(%(LH:0DHI@# 'C,#R#]:,:'O\%QB@P 3.P MI,HS5<)Q6I5D5-$D*C9]1690&=?@/_Y%'/XRN-@,K3&WY@3?Q8:=R;3M\-VDMFN_Q2G@E3B:AX;+B2&WV)W1UTD8"(UY)/UZYK$5#2>\MM[VWI*#,F>LVD-6 MPK+/5&O#);IBBC8L<_TJ,ANAE5TXI7$XY5X'9VL9U$7LZ(A4NU.J!6Z0+OQ MRLRGU[L;BYQL4!WN5S>]58]2!+V?/#/)F/^YE*LUMQ+2E]IJZWNWUMC,-8AC]7;AU5+TJ[19'DTC?:MAK5J=A5O3XY&W5)R!I%9.:MUNMU6I>N+LHJTPWUY/2T- M6 F!LTL=A-ZW0T;O<2N!ICBCT@SGPUCQD.S2L++IUI!V!;*J/%UO3E<<;O0W M4NS/,DMQ:E5SEYR-<5$=1M[O*D45[&28MFE]+H[#[?BC(9778;%!F&)F$CQ MNSXATVV3A*:E+L7 ?8N1YN.:I^,Q Q JN[02LK-Z)+![+NI;FV9IUPQ4)'X! MY@F=:ML1;FN=.2P,O?:L+&'\O&C$&^$G)# =ML1>NS(3A7IU.R-XK,AMNK$K MRBX-H&44D.O25&P,YX.V59&*-L-*Z!/,:LB,O(:5ILVMFLN0HA%^P=/QTB>8 MU;%@09=[$2>N:E&[V?-X?8)N)/0)4^F(>,SYA6>B_826H**VR6A=I.E6$8% M5_5BQV3M8O.7\46TVRTM#>2I60&4Z#I)G(6NBE6F=4T1 >P+_?2I4C&L BJ M*<]86^>ME;$81%JY3,R(F*XG)#L;1*U6NR9BHL89Z&Q*:>+FL#3S!O4U7 J: MJQUO]66^<<6MH:\=&GV#83&1BUYS,"&2<35F:VSJDNQ;J%/&->:'1AK25K/ M1'DSV'4#4J (?9,LS;!KA3>Z[NYY#BH/VF)BWIQ:XKITLS+MME%Q9.I%@)' MU37ISH;-#C\WDJ7,XZ5P&35%HX]8UJA(S/;NJJF;B_BI3YAW%5:&>PH/9$YN M*G:@*QW(B=$%>T)C$5X61UXDJ98S'2Z[---B%F[LYY00X3JV/A.@"HP:?4T M=S?N#XOU&+"?4$-"'0M^C,^XA;I*KS3Q(MQIQDN?4,/BU)K9[&(@6]7Y9*8Z M-C>DY7CI$TJ6I#2BR:M$4QNMV%_T4DVF-QYZ.5KRX6D12LL M79K1 6Z^$P0/6D.<8W'E[:*VY'0D?=>L;AMN!5-:1:)D];!LO?4)+/F_.8H^7+LTXSOJ64LK;:&Y9LM'4&U6GS\R$] 4RGI/L M5#LN2>DR'+5T>")LQZ$1(UR\] G7Z8X"V?9+1:[JL#6<=)SQRHX?^UNWTF3@ MK_WZ(>$;!^*VO RT'_??/ PEDXWN,8I,=G?*85?XY[;Z04+XN*?.YBY"__Y3M[V/20QSZAGL,./$=>[%6^<%F],'#O?B!NNUM[F/:^Y^A)/']XY!WV,0<>'7G M_^OO\BSP["C4_DF2!=+SYPX;_8@>?/Q$Z(7.XF=62S'/%GZP1D)?77)P"]> M?0&2^33)Q*]' M'D4C0 SG(K&0!G.94,_!W83#XE]LMY(!:)93R8#@++>B M 7"66\D .,NI9 " MG?SRO]^(;W_)(93XCM*/Z[-SU=/IY4J?)^I>!G-?T^Y:\1_FP1WGJIJ:]@ ZMW*K#X,+]];H9T+"+:!CY'<[<=+AN#>N;VW?]%T!S8&MGX\K+07+NN/))RO-: MQ KX=)U&]E$V_?)PZ-]ZN%BU<&""-ZA: +]SI#P OV_3R'* WVA,P=?A&=B+ M7(.9_A5'\6C)">=:,0R1\8YIQNJ[A7U@S &8 S?A" MFH&]-_^;N9.0OWDL+Z;$95L+?IS4''+'@)/U93QL^7-'W]]6 $T&^@WP# @8(#!?]*"OX7^X[/E7"ZCTAZA'5\3XV4 MI$=8_G?7^=3>TR[CBP/]R)'<^1XM6E7E' S9O^ZOVQ/6VMNI 5/=)6%J.(: M'3OR#H;PCJ8),[/,.TF_*.S;3Q)&"BB9'3\)K/NK6_G8-LDASU/"*^FK;W/_UM-D7C+O:;F[#*MR0Q=VB.ANWEBNMV>I*:<\H MO("C1$AL],F@'E_=?/^NLX;.87S5LW%K+D=S6W+A+HZZU;*3LO^ZP$1+]@W M*54\NCV=0!:*>E.FK]7#IPT463281 87,P$M@WL&]@WR^.?W^G?4])9S>% M0J7!D=W9T!TV&[RMG\.^)^. +T'N"$9]XRG_1].FS6PM5I8RFL7:V-L^?8#^&J/UR5!L6-*(<8 MNI[5'2H:LU+:P19GD (&T^>+E@#" (1Y[F Y=_3G!V#>&ZH]!3#[WE"*]T<8M#3=LQ621LN0OU7, S*H[&K7(:6/#:;,1N^\)FZ543@ FFN] M.A[2H+;6N)I7$T1RDGT*?4.:.I:6-1KX[[%>&5]?8[BL))/A?2_YHZ#XY;@.@+] M!OH- !PH.%#PFU/PJSM)^6,_<0?]:K1\UX_W&R"7<,6YA%.;9)[L+^>]B,[9MIX:L*YZ_'1NJ]A1(I*RMO3C?Y>^??R]K27?Q.M8QXMEOD]__\0)M\GB"X$BGZ2\XIU\7I]6YQ/>9C80@QW)0DBK@!&CH"O#A.DZ*"!3 K*,!@K,!0#X ' P@?-!!_2?M$T111@' ?X /!X$/.FT:?!1^$7@!-I(:W M$TNK?6,_&:N(MDWQ(:E0)0L8319PY*6*]%LXUWV<:GG(S+M8A>X>PXR98W6SP8=A,(M27I($U2!P0"$ @!84@NDD2GO2M*@R!.UHHSX;K0)01;(CM-HP=,FD8DMPL M)K$"B8 V @!# (;D(I%TV@O(I\(0%3*Y0)D%#KPKMQM;$:LZ,IS&(4DR"$]Z MD1 O@6L1?][BN+Q1FP,$S.W4L+,DU ?5D2BB$P/GMT&%5<26_W!N)K(1@:3](@OH.>,P@#&YL+JSW]#(&['Y@9C\S0T["\1)6(5 MHB.NR^VT)EZ:\O. 7]400\800Y % CMC?T@ ,;FP.A#&Y"(9E(/)8><)8U;% M4*?#CF(UW*T&T^O18M5.,2:I&\+Q D)1 &, Q@",R4'5T?EGAYT%8\R]:L)S M-EK"C3*^EHR..^!](\&8)-WT>B!S"Y5'G]5"!C ").RO*V$/C 482QX8D9LB MF\]F!# -8!K CP!C <9RY<9R&DY'_&X:I_5$?<-*.?E:6%/+7[*]52Q6I;KVWH0BL%X(R'$H:4&CA(%"GEI* .P?6#[X) ^ MOS'Z.FQ3/V_X0&_-]5&$7L",TZ!)NBM0PJU?Z0V(MYVV_J2HF2K &%:@X9?ZX-S<87,FZ0$2H2 1 M^K43H>#4(*\Z HPE;Z?/P%;RJB+ 5H!C <8"C 48RPV?3U=]+PB2D1"Z&=[] M3S/^X=_@?!KT;]_ [,%9@NF-9SW:/A/ WYLM__>U_: MG+B2M/O]_@I%SSOWGA,!/=H0T&?>CA@]GTQQE\40A(@M"*)]=??JI+8#*;M M;F,+7!,Q?6PL)%56YE.YI_[@YI1&MBSHE?Y2S?$)IC75QU!NN6_TTD:-D+&MH2$LMOBT_9!8[BM/6Z?_F$FO**^@:YMFZJ$PJ2S,<@M*+0SIIK@8DSYM78Y/M6RRVT13;>XK(7CYNY<&D$A]XK;6N4K*0[6>FW%!!QRTJ_8VEV!20W4MCS7 | M%GL"L2<0>P*QVQP+"X['?CXAL&A@T<#G"!86+"PW+BPXVGH:;6TX*C2=K3$A*

MK!S5\E3O!XZV8D=29!U)N^6]WR(QG]X\GT8NO(C9%+,IAE/,IYA/K\RG]Q L M::N>*KGR!,UCSJD+U; =4[5\;(_?
O3W^[E6Z$5A@!,+ 'Y$VN95:WE(.9#:T MHL\5ZNJC3*JC+UV]00F);EV)EZT1#]X,YD_2,2:1BB7I*V9B18$U, A\1(>>
M"*PO.AAPUC!5FHF>V>95?B1B99&(4GFB,00"# MP TEA;X5!/+QN)9LU!>F'K?
E@C3MT%S#74(0@&FBB5B:Y&+,Q7Y]-Q>'[*B& M 0.-T,M1DUQ=A6%'['$'L=(>ASOR5412A[
IIW,IG%B0;R,2>T_NAC?)L:O8Q:2_2 N]F=%N/!:> M>&E26D(Y1KZ&!)F.I>DK^AJP'-^R''_=_DC7 9O$F1[/?
9'+7+3U*5Q*5FO M]O-49M*"@IS^]I.-L+)HSIT=]7DNJ,+*WT&4$] 'DH:ML6(4>RD-^N;R'G*]
MXP+RH5T)O!ZF#=YW@S[7EKLI?W27MJ/<%T<2B#$J@/Y.P-1[>9#SGVL;Z:Z
M]+BRE:%4J)8+P&!A@B'*5"H58Q@\215+,DZ ^&COP]L$66NQMDQF$@PIL0TY MF_.2Z]+#& HRZGS-
Q&B<_X#%&!_('^|^>)L<,ZG2=9T# F58$V.>|ME(5@O<|U2=RFN?8GF1@?R?V=]ZWOQ-N,T6_
M7ZNA*"P?,SJ.\F,^QWS^)0']E@W1@J194!UK6!V@JC9&3==VP)ZMFX9D^<)L MKJ$RWDN#FC*+S%-
Q4I*DGAE/4'+^8>S.$RT1O"DP3BDJ1BU+9F.I+E0^J&I5K(C(VUH:&&]AJ,XT)\|-?@;PO5\]^U8=_7%.+[MDM@HB^=U
HTQ)F,4E8YQ21S>Q;)]F^'=]S8[,;O>,KM^W:/HFM;C.QU%U4Z= MS)+\PB;[:FU3+|^=PLKCX5&4QD<1ENW;E^WWL
C8/B^:!B.B;D@Y\|9]V M74E1P;6ZAQT\'^#@&=JNHKKQX/L_*&=%>+:A*<2_2/2_.Y/S6R CHY@0?EL
MV^P6UH_E!,L)/E"PH&!!P8)R;PZ7JV:;'OA<1L]]+GD-O+]J: M5.>-K6MN,S0\;,E_OKI4AS0>9I,L9Q=U5T^EFCO[_>JC_?
I?1I0[VC!'.8 MYS'/7W?5D0O]89;'+(]A'O,|YGG,\R_1X1XB;O|='CUD&5PWM T%_+%K^Y)! M-!P5FJ'6F
A;#WG__<|0YUEC9Q!V!MU=(NC6&;23^:W(GW'[+,!#4E6Z/B4+ M3&%#4_5UOEX9BW0*M2 F8TPZ&:,8!E=H8.3 <"J[?
>502 M@IY-/HK<P5N74@^9K.;49F'R ''.Y,QEN%B=)+%R(&1 R-'E)#CJI'KUR!':3'G M!IWJHZ";U4%9C:===K1$.@>,4=-
TC"%AS*[&@I]A TG[AWLW<7>7>S=Q3R/ M>?[V M>?O6K,X5]GU1C5,<]_M57?%_??9P:-7W-
N[:YC57;%HY18[H/1HZ/B4R_#CF6B;&<|?.'2-QUC=WQBKW8K?;]V8P;\(@]_"C%+,WYB_ M,8!C!L<,?G<,?G,AE?UHI-
"ZP(Z$&W8D?*6Q1K>)EU5"T[&TI+D6%@7BI-)F(I^HI=#+ 0W[(01RZ6B'FVT_) MU9.UC.L<59?7F=%CG^7&4(C1
)H80[.Q)/G.,VBBX,QX9O2C."*:?RE!W'4IPUI6!I). ME_,ZSV0>2N(V!PL]!M0R5@B<=K!#->58
BXNU#K;=:BO@,"M)8U)4/-7*I7 MV%#9X8AW!GIW#!& @P8+L%=(C 8 ; 2$%$?Q3M P+@S%89*7V0$SC5FX]J MB]L;!
%II 2D6 I# (8 # $1]7"\!P10Y76C7ZZWR4Z"5:GY.E.>ZL@.0!X/
MFHG15.*NJD3SM@O^9!'"2IY(UE@E8"TM=L3^&8)%K13\NG 6M=7>HX]CZ[T-
MQ34[=UW5DM==5[*\8!D%2;.@[&94<#,5 -\EG)M4QM4&5YWTR+Y%=R?I3DY? M"T#524!_1Y*,4:EK6CL8%2(A)U?
U=$1ML??H]GAG4%@)G*>;)7W5RTIC4=#+ MBUEMPD-0@"X0,I9,7]/^P: 0"3G!JL*M>T+>&16L57G,QZ?,1-
"FI7R[GRF[MS!*I"L@KDHQQJ8L6$88%# L8%C[?._+.L&!N'B2_5K5K^HR?MFV+2BC]%E(6 MH*>$H6-
4XKW;:47!;_;IZ(!=Q5%V%7]:;XHH4"*:+5JB0)E/)P06EIO*PL"R M@F7ETPF!#Q8L+%A8L+#<:&#
[8H>PKNU+!G'8)RP&'NR_:X>P+R<#V'/U^:N- M0!'31X3!Z[9E']> #Y-
\SGBJE*:FSL9:3M$[]JPO=Y31XV36$IDDRNVG4C'R MC
,;HP!&@7N,==]33X&W@$!]V/8>Z\4ZU=.,\2A+NH)6RRTA"'#??B8X.I:D M3B?'8!# ((!5@8B'N=^"
K.9^VC+,R5.]A/]RH/E2Q7'1*H C&4#%$BE3X-6 M& 4P"F 4B'A4^RTHX#LE_\F>YV8"$/\')JF+5CR/=(&@K0'%I6,,
M0[/F@*3A''+;"HLF@NO"KA.^*]DN(+SDKDN^:GIUVX(+<&W#0%ZJ7=_-%XLL
M2G+=G+L%\HDL5/6T1!;KDS7)BTP:AJY9,L91=(Q*GS;2Q>57& DBV=+^(X#@
MRGWL/P4(=*>S=@>M>H,LM%MM;=RK39Y:" BX;S_3,9)E8^FK-JC#.'#+./#% M-(*/Z87_*4"P(1^--%==5P1M7#$2Q?
9L8U81$*2__4P C2"1CB63N" ;(P%& M@@]KJ/\I2" Q5J^LY(R\,"O4U(6=RC?&,)<&"/"&C!_()A2-
1\YB0;E^H_O(K1_+"983?*!@0<&" M@@7E\P7E]F+6GY2Y\O56_?G^IT_+28F2"&.>QSS_?F\F.4QRW^=56.8QSS_
MU59]7SQ_#S&DB_FW==4/AR*]8X9M]$@05<<& ^QZQ9X/#?6K>C:B0(%[3NX% M KZ/X5*N9?U7%&4V?
I47XO<,B^+=55U6B)+?U@Z+H8-#!NOC+!%@0#WG G\ M:M28E68S<2*G\^1Z.J1LB=?
I>'D,4>.#F,@EO50MOF)Z\0PWI>R%;$UK_#L'C>DW M>&0$R;4 &;VFZB(Q1=)\R3/3FANT6P]W1XQ70>(DB 38RU)NP
M\>;20/KH#ZH2E\![2F,U\)]Z1&/N>S"[!{P.$2=.W*XXJG+#495[[HSYF_,9
M0TQSBFUU0==+)6$]6\63\86A4'SK$\MLMN+)!])9GYM#U6V, B$]D-$M]I^D
MMDE^Y2%D))]Z#2Z>3BQLUE^3P"Q._-J!>]NT"1'JA$1OHPY$?RX12U%LC#V3 M,8P'WF) C$X*4*3P*H%1'^*AX-
)EHGKL[:A-[*:*S2>Q&7U:0DE_I=^TUNE MS1OP\ )U$!XR,9HA8ZE$&N,AQD.L(/Y*Z#^B-NI/ 3$1IS:]TE#N]K*C67]N
MQ..KAM&"(O]+;^FMTN8-@'B!.J&"F$BD8QS]"@ N,X\ MZ@XS3E<%>MBDF4*^DVGZ2 ?
ZM9/T5HGS!D2\1)ZMCD@SL227>@LD(K?I?WQI M:*C1A;'KBZ:LPADFP2>:!5[$_\%PSK/ 17>B$I(LVR9XL35TSUJV#]X
;!T! MEJ2!.XQ=R2 T3X$]53(<>A/K\23)D=:99DR1JX"&RTKYK@.=[W:R[Q M%X6'Z)M)\,?
7GB>*MOCY7_#/]BZRH4HNQ-Y)^*A=B2U\Y-8T)__],0 ;[F*X M:)K=PVL(L8F#5:!___A8O:AL[AL&[;[8ULET;@
MN3\D8RFMO7#5R?1W&&E$=<<_=O7%D"P$17YG$O\F#GZ&Y#FAK2FMX@<4#(^K MN*&._!_AU[:?N0$YP@]M3X-
2_L-5#0!P"Q7>_>B^:*-|V_E! \4&TCC@>).4;(E/T7OB#Y^] M9R@&)U4!SYX=?/NA]U1Z)+*-=K/1YKNE1GU7$A 0+-
NH=QK54H[O"KE.%_Q; M$^K=3B.?Y3O%?+71[XA4BN&2B6C3[(_)=$@&8D\'HI$G("4(1(H=Z3[E!"2? M'X
7"T3^ZEG27 ':M_+WM5_[CQ6*4'2Y$4D-65D262F=$%E9'8GI(9D2Z90] MD1*='*FL&K*AM%7#VL:T2C[L_@X"'
<7YDJ#6?Z8%-*ZJ:L#>DGCBNOF_#*Q/,KG;3DJNT,^A5 MZI*TRL]SO8;-BPF1?'YE9N8|-
CHM(Z<#C;)L9)BBZ!>60+\]N7*U*2H671JZ MO8KF6.N-,7#&Y7'@>#R^ MZO%1;3-
8IL1.L]L2TZ=7#MII521S@M>KE,>.0RT6;'W$BQ1Y>FFI8PS:I!+? MZ"I+2<7J="5GQDMX*?/\TH3+55/.0"Z16G-
6+7BK>W%7:/'"74Y:I:ZLT&>3*1)1_8WAI5>C+3ES+ M%?MD8]Y]JN9&QA,%B<6<4H 44M7>K#
K]-9QN;OV+&&2H\&RV-.[+ANYE=[W M.Y(^Z]?:D^&LLNDH/+STY%U-<3J1UG2>)+DDZY?
BC8=>M@7N>H:ILV(_M2#] M9%&O&.U6JLC6DB+7$JDS7&TOQ[PW>T@^ZH6')ZE4ZB6>9A*XZQD69/1:9;;P
M%VU2G?050(5,EW+ 7<_P8%GMSJBL]I#H90=LNY=W%8<+.4YY/]/EZ
M4>!&=&;02CY(2I<'MN7II3*YE#MIA^GI=!W@7MD>&D_@7>DSG)5U4LV^*"8'
MNEEL>NM5PEP/.7#I&79Y&,33#4&VQ*|.5^+O5EJHK1;(GV&!R:" ,"G0%5T
MS8W/==D=S5;L4J3/;&R]F7W2)U)3)2OCYI.MB1EE. /+.K-;C].&W7P]]B7! M]/IQ5E@R1JT-+CVS6TEW-
5D6^K5,;R;JXZXY*7338&/I,UNP6@R8'E^JM\DL M3W:S@OK8;<$I\V?
H2O4+EUQ&Y[6>V=C'_'S>T1=62C>37%'./QFYYD,+7GIR5SUV M_P%YLD_NRC<7N7R5JRSU=>JQMW;88J8.T(4]
(S"S>6KF]DHM16@H#Y97[EFE M3@V\P!F!>1K4!Q*0^CYI9MSI6A0*HU(=77IRP$_S]44]FUAJ0M:?.TQ>K[LK
M8PPO/3GANS6VV)%7@[*P'G2S!N"#AQ4 HL29CEEQ/N[4)B:5 M?N+AI2?O^E2D^=]DW>T*<7!L2)9O^'D/O<#)8=0?
FFZ\UW$*/8XK+FILXZ'9 M$9=BX@P.Q$UZU*)33IR4'B17S#-NE7;&\-(M#R"WVLZ[$+0@ [:"(3F>^F/[MPZ&V"XWQ4-
&%%J@<6*['IO^!ZS]T^T]=+;Z[?>I6;0Y4Y5]ZSP/7!?F=3%QR ME1_8S ?WM\$]1X:]W&K>V]_CT O_(W"4+ $1?
NF@"%U(Z,';2Z6A9T-7Z4<[M)EYVFU%O=9N%__Y1%(/^SE!X9Z*X,]1W+#+1W!CR.WLQV1MO#48SO#,8S6YC
M8ZCO*2PSU]R:7Q<2O4U9_D0RI, ?/Z?![*^0_:-CP;\DTQNI HPW^.'_?DM\ M^UT*);]S]+|_|4-_3]?O2 F$YR3MU@?
W2G!$@Z9UQ!H--@=O#3VP*1%T/P:8 MEC$L8Q'EG5^Z[.^+3F]IQ!4>Z!_;L^ZL7O-Z+28K>1,B;]A+C\B[MDG\U?-4
MA2A9?Q,-1X45A=:8X&5?6VB^IGKOJ@E'C4[O5YS[_<.YX,\TO8\\G".PZY<; M.KYH!6%>Q[S^MD,R KO^.[S^&V?
>IS)S7?71^)[;U8RCQ;Q7UH-_O:'O-73B MNK;@;\C;;<]/;[KV2/-_-049+#B>&?H91JBLVZG-/%=TNC-
85L="GN&A/,;]%BKMM6 M'%G-O#*=>[X9-&.X6;OX5B M:CSRKKU>L5V,>?U+\#]VBS]PVW*JXP)= *D8 M:.@";]K@=3?
H ZQNWXFZ_=X'480D\3=;2D;*>%[,-]J/0TGD+>50#N&O>T7R MC$9.N:UELLCV4KULP5RSI<5(-8J\F(+V-
!WC:#J6XKAKM(G%XGU?XATYD_J# MQ?LJUO4?BW>G\T!S%5[A>HU'<;3TY(%5<|=
O#DHWBR=BC'LN5G,=V1N=WQ; MUN,9"4:>L[;IJ);WOBH*MC*^EI5Q"Q;U/>@V6]?B=FR@JAR*[QFP*U)+WW+3
M\:'>=QU^TQ*?QK"16QK%!F)TDHF1]+F&SQ@', [/HM\O'(!9]UY8%SL;KGC.[H^3QJAD@5<=:T-# MY3U/];V\!MY?-

;0%FEC]_. =5YC!Q!,L29 :/=G1EDXY/FG!!M$POI^,<1== MB7?@;X#Y#P38[KRV4A4"D8S(:9YC>Y*!
[0QL9V!_PPWX&PJ29D%!;E@=@&^- M4=.U';!EZZ8A6;XPFVL.Q,9+:4[K3)WS>_-$K5=Q9-]O38NLFUG"EO8,P$$J
M1B?/C>+#\(#AX8NX(4XT^ULSN=LJ^-)"A6<]LK$)7I8!\8'9W59E55O 9M;8 M;L%VRZV9W+=|;H-
S&C(D>'O;S=GSH3^:&UNQ/'-(VYE20W/&RYJ@K5_$>QRV$5 OCK8O.Y&LL4IH%E&R%D ;M]TU ML3V3 6
0#=AF5_5DU9+?[QS&FO7G:];W0)5;--C?V]>.N0++RKU:K[?HW$>9
MA+NS,CPJ@:)|>%">49+S9GU!U_VIU^NO$YVL[2S(9A8-/.2^_6139(Q.7,JH MN36S_C"2#E6+;? C=.7#D#IT /IKI'8$:9?
8)+@)D^ 62(#=]5(FE0WC1Y75>NE29)J92MH2"OS[2=#QB@J'>.2:>PQ MP/!PL[WQL*?AC=7Z?Y4LV54E3_V;R*G!3]
G<=#<#B$,+N"_,\L*A_]Q 3_F M]:\9RWZ1UV_-V,4AZUM55G'(^L9MTEV];:@^;I7'DK45RKU,7DHTZUN&J0T>
MTS0Y>|SXE$4_Y#962Z2"=G@4$V/3.(:-A?SV+,M_;KT?WBLE^[E +Q)+8;T>
MB062'F9RG4UR,8TZ31^^K01Z@E#M7%:"7+%1K#NX+3&IA M):LPMWY$9#0#?'W\?A5MV,CX6D;&C1C4M]G--
XPS'H-?*-"A/)>L0)@;HZTH MGP'"7IG2DZG1T"*YKNXYPXE7DQ[&(I5$*?0T&V/H:W;YQ9CPM3#A1AP/MZD3 MO1V%
MBK(2P*8![OR/8#J&O595\#LL]H>,D'551?.Q+^?6S+Q;('V 7V4IE2R0JD_ M$/I
YF&60BCU.Z$/9/YUKB*RT:3)0;;.D16*YMAVOI-?IGB1"CH]DJD8G;S4
M$P5C",:0^W(QW5%6YT=A2%I++,:9H9W0U\ZR911R?%E9CB&&0 6,XV))\M0H
MNRO7U#:#%DTKQ+8FMC6Q_RE:6M7+_O<#T3T72>,ZW7&G9.I"I4T/2;_9>A2\ MEDBAYI%4C&:2L>1E\Q*C $8!
['&*AE[TNRA@9/2LW"\.1+)#/2@\.>S)9)J' M* 4G!0=8Q/L/7F8:I(U'X%ES%V8J_J@6HKM$DU7=:1U.'@*FW\W8/[A=*#[
M= 4=B6<@G0?">!@*PU;:7?JJ[D'#>AE@RV4[9PZ4EU754(1YRT%R7<@WA?C M7A7-*N1U4= K3TF*+-
B)\:B]%&G4BY-EJ1A#G[IU,%Y@O+A;K\X]*%'7PXM9 MRZ4;XVJ9$:0NKQ7ELC2F&RV(%
["'>8Q+O[,N%=WBYBUMB;^VU/W[N+BYJDD(M+U P[!TKG#%"W@L<1LY;=*U"9]<004D_,ER$UI_:XYJUCO
M_EIZ]RW8Z7>84[&5WU!\+^G54G7.#-G*HTX6.%/@G&&5CR]X$5@$P [GDF0L
MS9UV$L3I%1@0L"%^FX;X*3:A;N+;WS;<(]UQ=")UOQS9[FK&7= MX-L*V6I!X4:9$U2,X4Z]_??
5:Z5GJ9)K[9NM8(,+&UQWZX&YATR)%]+'MO%. M\!?;/&=L&7:FV1\L1OU>W&F7E?8D7:,3P-
A*A/W+TQ<#FQ@,,!A@[TOD%*'? M!0-A9>?]_B:>ZJG>+)F-4PTE"Y,<$E#Q229CZ=2EMI&WYG@)R'"0%-J55NK[
MQYPPHOTSM%U%=>/!M3\H9T5XMJ$IQ+](]+][@;=0UXG88J.#=9_CT0G$',GV MRS[G1I'NV8T'_4&?
IWH:6>L]S3R&%VG4,1<@'\=%$0(CQ%L4H(@M]DOZ M@L["PHLN(:,DUF9I4JD+IK"(5V5EW1DD6A ?H&;$Q<@;[[Y[
SB!3<:HF(RW M0)7/\#N=I\ME=/UL0F&IPE(5;0?.)TK5K7DT+M9MU%6?R$K>A,@;]M(C>IZJ M/!M*!]26!2[;P-;-
E_%_W'P:"Y!I*-)-UUYHBJIDUE"J2]9.IOP5 MP5*%I0I[1;!7Y 6OR!F/".P%ZV&/",[=O\W""-S(K/LC96;W&TCB^;7C-
LK]NU>7DVUURUZ=H.V*AUTY L'XY+ M I\Z\)(SGC)3F,;]/CDMZ71MN*:TT5+HUL8B@SI+INETC+NJ*QT#PM<"A%NH
MJ;AY'_H? 8):&?'M4KQ+DM)*T01OW&9J#TL("-RWGW0LF61C">JN1M0&%C2B MHFY*/?
H25%EU74E1PL8[[7&#;Y!;,Z3O39$H6>-^Q-C347<_;YWA5>ZA: MU;1<&@E9SS(3Z;FLVTI+9.B@))2-L>3IF!"
<"X#%^19<#7>FA[Q"G)-98RTJ M7KZA9XU2<[;T*549\E"<@?K!L&0L<>-A^S?K(U5-?M].6]CF^EHV%W;"7+^3
MQ4YB2]967L^ VS"?62=[V8C%%9RM*84_61&XL,$_3A(DD2_A^[6[#H8W=+ M]-6<-XE^)RZ.U@]EOZO/9+^D)2J-
4KZ^A*(/A[*^1O1OW*W2L4?^4G)5(J=(M@I@H7CLTF G2*WZQ0Y M<(AL]15BN";^"KTC?Q-
YS9(L&;M'/M^$N1,3Y4;J,J[2H0GS^M?B]1LI1'BW MUDZ?V\?)M0%Q%8\8N;9)""O5E35/A4V=.KXMZT3#@?
8Q;FEP&XKOEVYI@+/H M,>M&Q/:*^+C2ZR:OA2=*'APHZ P)CY#MV:*<<=LFUID!'>\L*5)K3?L]7F'6
MG4=>9$GDMF5C"?:T+\==F9M'[12[<)[CW%T'1S#6H[]0V.L6J'8/H7B<5H]E
M[1:HAD/34=!HPG3\O.VV52<\J1NCK&V:MH7.Z',U?^YDH/!9;: 7UN*Z[)9' MOKAHB2SJC<@FR5@R\=[-B;ZVK& C#0?
6<-09"P<6#AQUOE4WP%M2\7'D.2(R M%3W+)A*1Z:BM'WL#L,Q$1&:P51\!J_Z%A//= ?JZA'-]WATFA"H[[ZG.W&X+
MR1([22]%%O7J8Q-V)C)%(TG#Z+T+23 MRSUT_ 3CZ69FO>8?DGJV)G\.FI[!Q/BXH*>KHD;I64KG4J0W[@@2P$0.-4'B
M8HE$(I9(TQ>RWC%28*1XB[85L<5&!BEHT2KU;3IA=XLZEV?<1U&N*E4K,D@Q ME3LKS=^4RSK7=C?TJB,.6OTQ1
J@/27I6((#&A1[.F7[AAQD-P 8V%"-BJ%Z M"U3Y# _:[8:GHD"G2)$%2U5DW$:W%=>*;A#KDD-$.!\?
N$+>,7+UQ07FU,AA M@-ZOV/.AH4;#ROF?:[E"(K#0S[9P]I&KA6T/XO1PT=,[ZZ7#E^I=LRXOHV+@
MK..YNEXH4AU]/8R/;4_CYZ(##)P4=(6D8ZD4%:.I2_7_&"0P2/R6%R0""XT* M2#!B;>'I93N;*_9,8] B-
VV^4BI^3GC[#$A0U359IN:S;$^2Z'E)6.97H]P2 M@@3,LTW%$BDZ1I*)K^L%^+R<4>-"R/7>1+KR)*U/!7K
MO7>D]WZLY_[SEQ:=WKQ7*3I9S#?:CT-1YRWE4-!+H9R7K*V4@PL.9#P4\3-^
MN:.O^V9>Y4KQ]%),4*AXA"1C">:24PY#!8:*Z%JY[]Y'YM9L M5]3<,IZ18'>IK&U"$ @4@Q 08/ ^^$DA#-6#3:G4A6;//6--
E#QOKN+*AMNP M"&Z!!)$S?O' "6@=7-X?I4L7I9=<&"%OU]L^K30 MNJQ%EF99@5ZL%%-NTH]^@1<3- Q&)\@83?
VZF/$_OC0TU$_@XU=R[O7],C(P M+%0W^$2SP(OX/QC.><9MW8E*2+(,=_)6L.:2Q*!N%(
MK@]S"/T)L%\@=Z'B%LD'>LDH:.@%+O)\| 'JY/W]FDM\/](KFN<8TAKRD7KT M'/(YF4Z1ZC>6"VE&L_N#.SR\N8-
5H'__S^%B]F9'7+8-V_VQ31S3WYEM)M*/7<81) L!=!PF\6_BX&=(GA/:FM(J?D#! M\%"(&^K(_Q%^;?N9&Y C_-#V-
A&/US5)"[4.'=C^Z+-@K8(#]HZCN21?!K MN#"6^IY,?-36'2A92-':;]1_)6+BPF/C7]U&]NP1#7\&(@,.!.,H*R;|"& *
M1%Z(%EEX"J%N.2$C2Z]AYF/:GR.IA X*D9,Y.DTRM,B.J*'(DAPE#DF*%E.C
MH23129+F$LRWX*D[,H;LQ:))6F;_^3.BJC[@/:170)4A3GY/O$E*ML2GZ#WQ
MA_>,Q2#D\CFLV<'WW[H/94>B6RCW6RT^6ZI4=]%.0."U1M=H=-M=(M"K\[W M[L?C9+^,Y&E>8P0T*
"1/GCY4%,:BC,_P&F% M>$K6Z5R^:CM$>!GUC5"!!N: Y_E 0?LPS#F[A6=" M^'6@D 0;1&U#H< ,I/XA$/4O?
1.1#54^N$!KL7RT$9^V9TV@,%3& M0(--PHW,QXNV7J\F%;T_7%6*@]$HPVV6'[4U%W3$YWMUHC#.+6FN:% 3_*5:
M"/?B 1@**W RN(X=4)GX"VXH3?X#=$OD! /W19^ +;9=(OPC^EKX\=_$1%JH MQ%!5+<)Q5:";!A$T^%JN IZ]$DO-
GQ!CU5*!\FJLX5]4![Z5M-L.\$T-O)]C M,J![*'0_,*7-.![XO>E4>\(>W>L,#SS=T[ ),(Z<>N9AXL5K,"4VD;[D,O M
F^N61[80V2K>(1O$WEP6MQ&(4D!VV]$L>$.P7L"\0+6#?XZAYTG* M=.[YP>O %]:
2@>>8:FRZGF2NT9/D8B1I+F0$W9"?L @VQ#K=P)R+KAF;@2, M^(S=J.0_X&-'#9C20W>&E_A &U+18CW
M\"J]2<>H5HP:%N>6RI0G6($A(48 MLID@P;9O!T03/%T!# 3UENTCW_X&HSF@Q$B#5G+ ,&N@+$'1 -\C@,JD@K6C
MTJZK6EUO-".WDO%K-O,F]MP ? -)(R$Y!M^9SJW][&3G]?S+=PK^(V ,2%] M5"!OQ_0F)+0#
0\'9$94#38V!W;0'*IN0&Z&0CO,Q."7 -S8KA_@S;G]XRUK M#EZGC2XCP *.Y+P"WMA0#U !2"N\B
=@9!!4(F"E8!__:OM(YBAQ* M62#]-K@Q,"2@'AA*QN63M&E,JG6EYV1[<8%Z&C5K.8MG'*Y:K+I"J5-GEEG5$N>
"KH1U]OJPL5:-UP-"^T?>'*^D#4MQL7WC:95S32L[FXH)F9 M1CW^T,HZ\R./:ZF>/_*YQCU5AG[7)3C-P2%W)"- \L!-
@:JY?4]=?(GKLGSE1B2W0$>,'!"C;PE3OFS%U55'VR MVAE4,K30GUM1.0&; .HA[XRB+O))*)_BA3ZI*5 M9(.JK-JI:7
M(#KCCQ/ZI_Z2):>.,R2E[&!9[#(33WT 0I\ZK1%'0J]:0!50@2(!U'XO(+:W ME?WOQ"OU >9C]
(%GL<]HG!C9H5D=C9)Z1=!ZG4E&<>IDPUA>&1SXQ$CPJ5IC M(&BLZ7O)JMLF:Y$"AS-[]8[@<'.ZP,:;)!6^*K=
[_8E8SO0IH4+J'Z@+U#H5 M,?MH=0:"E%IW4^O5E!6?EM]^)D_S3U_6!;X3$3-3?N74N2HHG;>+H\&ZVA,_
M;#C]S1@LQ"@WVOQ#8B6WK@Q*TZ:TK+;'ZX&N/CBS3HN:I\G6RDO M;]=+N-2%
[WW_9DJ[\Y!Z'#O<3&@PX&%V;Y5T#!.JK[<2U0E) MTR9C+Y*R]&!>VX/13*N4-1QZ71*LVQ-
*EC69U:$^L+2CH@V\P4KI+NW[UP4F MXV7#80?]1R%K9NNN,AF-D\('P@+S.![DYT:V2-)](>TVRJ.*)+7>;J9QKA
M493R\TV2-_-=F/;BM559U18P'S!DCUZ)JR^[8C&C:QU \5Z*S0J]:\-(8CS, M>XV\T^ZMEV,O.@G]Z76?%^>_2><-
!QC6*I^-!127.2U_LSJ=73%Q_I MM2C/5*LXS,]ZV4ZK.INRDN)RX 1)GS;T1W 0)@C!K=]2Y3L1B.$V*X#8)P1\ MF#9P,'?
E_?9Y10[*O7ZRK0CSF45F_>1$S3>N+HO,8"IZJ=Z0K,R23F7>:@I9 MJ.U'[4@_H/@:S_1H"F+*3=-EMF5.!,E,LRA<;JO?
DDERO MQO7XC9J4'\;@7'Z#()[-B[ER'F=>TMP'R9BKC5%^FVU40KE*-LHR$+9)9]D
MIF*#$;E14X^O98>7J$(AE_ZPY)-?%=?](K\$+I5 :X4;L%LM<;#<#\@UB71E MU>MS9)\GAAVFB.[("9-
0S2!3$*4W>JC(2M[V?- N/DJ[&TH& MRK+U)JKJ$_ S+T@O53T?K =EYD%>6D!>VMWB/ 66:I@V";_G:BA=5]%&(_"Q

MY1,C8+C +X.;R0!%4&IA>%?)(_9'@@)XUK<#"WX",^_ W;99L[NRM8/'?@J4 M=.9##QO./EADSIX/?7YHS_V"#=:$X-
2U3I/9XDJQE]3J(DERYO0A;HB:M,Z? MR>|_?]T+^?W7S-@[7,[E/+W)J,-HJ>P\I?=%NK:P2V3J:71F:>>O^ZS2A=|"
M5D04(J3*MO779P+6N;9RUR\2A+G.2@90*)B.H84)A9#%+87JKN&U]ES M%SY5/VKSD(BN;
G>>NAX[=X=P#)/0\E*_^FEK; MDSQ]F-U\D#>_A44':'(C(.^2&1P6Z(QP!O#3\.4<[C<_1(.7C=&+">:/'%, MN+$P5WN?
@A_F;R_A#L#Z EC[!YYYD<*18KBHZ1AO%9:]HK8O-B*V5I!'9&SP M'^*O/-_)_$UHJ&G,^0M[#F0RHFY_)_[B.
[V_@8U+L7&4E7Y80'6L&W;V?!BV MYR".T([X"YQZONT QJ/)1)PE__YQT(<5WJL'K_,ES0I*7."9"$O/!?"[?Y!7
M'VP*Y*SL$6<=/0UI+%)88Q$[*"\W7K2?Q$7[N&C_O8KV@6R$H!'V
M/KU4P;Q5[]]0QTR__(S+UM$;;*D+S[ALIKS!J*$_1/9?!Y(\D!>X2 #PRO[0 MU@[*/=%QN#LRO;V%BP;_^.%YOCL=0CK
DQR7HZ-F @YVJ-&BLPJI" M"]P.ZX,3??7BFN -Q\%6 ,W<\I .L'L_=+@2DN, TPQQ^($Z[VU5GR-- 3X= M'H9!8U[T0J?
O:4IK0EU!?PV@",+ P-;8F1G_#ZHR.Y7%A'X2#59]#HWP93U4 M! BL@/Z(/GK!AJ4.@* ?N'*U>$://Y4I5I?J-3X[M&.N=*
<.CA!U41?G\'-R7OH)7\=13?]"AJG3S2D)4WOW "0EM0\"FJ'+:)X 4 M
W5W5_=Z.0,6;M;_W&)+WBV7UU6_A+R<5;#L%YN.(;Y.,SG/CSPT9Z<#(W K\1 ID'440 *R/#'OI!=[T P/M#F0;3K9KNO9"
T3) MK'L>[+'="%9HC7FPI 7R7UW>$[_S9.J=1F])SD?Y6JV986R>!WM"L3$6[MS MIL7V*^'S#O#A72C<&ZZR0CW%#
(4"ZZ0K[8J:DN(6FDN1B>3L13-?FGP>!<: M*ZD^7R@^:!V]PGJC/O.0',0=2&,VE]"I&'DF,?:5R'(V#:K/G7P)CKCM]MJ]
9J2J"Y%J_^AZ_7U0N6-,OSLDJWZZY;BVI-XPE ME_=S"V_J@W.28=D8!_Z?X$Z;EQZ!]\ZR>0;>J-_0 H98H3=PQQ1!!/4>
<;RT M7>UK)/VT4A+G;EBK&XR8SLP".TS&:86,D2V$8_S,"CX34N*)M*Q^@4&4MSIR7"7QW&WTSCR;IMJK61F]#7
\'LK*M.;\ M&@,(IY)D+'5F5/?K8#Q2UNF-6]:>2L"XKNW"*(?F!VDKKJ2!SU_R@9WK%G7@ M(KH8+ZV=NKV0KPM^<>
<@V^;I!"Z[,&SSTCMMH\6H-9VYG9&XC>_M; 28K&,Z M@*6?]=:2YS!D9R"'&SV\5((+Z/0QVEO MU=+0CQ2#T=3]X+
(##H@12]O5$1]+#DR."7/:@I]1(AI@53B-,U!_)F"-JONB MUA.\9I@V 8$.G=3P]B?'"7H0Q+Q -
S(!:X:K.">$Z@J(@@=;]/FJ/+%LPQZO M"4.3T0 6>"=()G]J\!KP+4Q-=NVJD#O\$A!#@O=M4P/;(A-_>2J,IL-<$0[=
M)_GWL9'N2-K''WHPF3D+/>"J"YNZK^O@$-NG,^_>OB,]3V>&&<>-$>^ZL/LD MI,*9;_%C5T5_VW:V*&?Z&6D\8<_=X
M(_8HG5#*3G^;#+23:%J;)2Y MGE[0L-2;CB5(,D:2IYVI3M4E<&KNQ31$%$/RP!F]M,-.FP'"G+?
+MMBP!$H]ZNG_&'ZWAWPZWG4.DPV0UF M<"A!ZJ>DJX04MIW>)VU>-CA0IUL8\)][.-#\(Q,.6RJHQBGM@R4!#0|
(%\]$00T'M;YN# M"S1 /WC@4-U']N$2YF%4?2>3LNWYSY\.OA]805 "0R8$#_\/^%Q1A_Y6([U@
M985D"4/\'M0HX2B!0(X0W='+SR%\@_LK@;:(#*P8S+>%?PS**R;0H_CC,/?Z M)_[?.H1Q09,&V3A!!3O!
M7]%+Q0UI#93W'R-MI2KG&/L@36B;[16L['AL8W@9G)_U[3^'?_BC13T?!@E? M#TV$?'%"6.ID*-C__5>:2Z;_>3YZ[-
GDL/>8%X1>^97I6VU5V3:7!PJ-O3W- MI* =]5Y MO4_,)E&?*;CVQJ#Z?LZ>(EL;I8](M,E(S8&;SG@DE2(#8QJ87?
09^#5D8E2'X!$P6\C^-+3^DW/_Z;/F:HM[>-L5 M\#9&;V/1HS)?RB0'R;A%+84USP_[CJZG4M"$IL]T#/XT]D09?F:0
@_4".0R M,J!*?J2PHZD#D Z0']N'3J[OW@ MM@:DU9R;!TV:W@S-
HZ$\I@R_EB#CV753H'RNSS7>W,7Y!)H;X89UT'[MM;[S M:%R1&MF&2:T8H3))D7IA MU4IZ
B.Z3'[YP8Q&RE2Y7"^(MCYG'CM--5?GQD%R:(08+?#4H9EET%D73F." M$4@8_!G"U/00!I$RL L8!=.5"'=N(1<
RJ*L23M'+W+,H@$^8;I((G"5!,%- M-6SCX$D+:/OO_!AW;GR]+ !O9G"'X^0%F:,Y/4YS?N*A-Y@5.V].TT ,+H1; M
M7:#MJ0W%SMVLW@X-PQ>3,X-L\:88N\YSK5B=?M[6##1;\$T.TAUGX&W\|Y^PC$?4?4,PE?;Y,= MI[,
<:W%%3\]@&G2D4!QPZ=?EQ$BI"]?C1/U!M.U,25N0JE]>)XU4A9P,82+G M&7C]-$Z,'6@/,$
6EK7MRBZ60(\Z,*BPU8^M_E?S%@\KY+?)>8#1(7-=-N_W M@2V4Q6#"?H4$JDSU@H-
>&HT.N/'0T259070*74V$+21@3'N;]'^2\+_/(X-E MA99/+%55!VIL$%,.]5VD20E5[N;*Z\DR]J4GK>F>@J@.#\XFG)
M2GW^M_37 $-##RRPUOJ [&>UU($ORI-:6VH*,WLV3#YFEVEV"@U_CHZ6C@I$ MV)M[]\<*1U[^G9-
_F;;CFE\4%OJ:L[)=?[QL3#M79H5J4AQJ92:I]RHK]6$E MK(JJP'/4HZ)%BN$P#-4P2D49 .,MI.5(8'<;>TXYI7?
#SF^FFML>OC4WXB- M36_&QBTMZ30G50?: B05+:YQP,$%3Y^[M M^ES.8/XOZ7>22(T4]GR-9JB07 M%V3?
$WL5P02\,@#G#)/Z?EK1^7DVXU]H3'S0ZQ_>$>2]B_1^@2!!;Y!SM6+3 M?*W=:W- !6GU!=(J2H\7B-
&)B"DA,.W,VN;*H*2SO[&UAJVUUR=?P5_A MUT*MY:#%PD'^RRZ7X,"0.C3#)JH$.ZG-80\BS0TB#:JZ49%C]N"/V*6 F?
0W MF#0?5ABX1YF"* @6.OA?*N2"O6/#Y'<+)='N2IY0TCJL4='D.3@64.*W2LP# M/1V03G4M*>@5Z09)Y9AC,<>^FF-
SJA$4QP#\"PM.46&,Y@%E!$6GW<#A!92(MN.JA3$+(;FU.[N2C#"5>PZK'^9N4+ !:QK@YTADM%T6 M]]DN#- '!]-
N443XH(;H;+(9&C7YHB3\YUF+P5=^S48E M9(>(14.GDDR:2=(,^2VX^]O;D-)O:D/*_%8;TM]K+ J_A8_-3SLV_Q.ALQ+6
M=L=0C 6U?8 GT5):J.,Y3 P]/M=@39,/3T?)\B"?P6*^@P810(E#C5?AH66H M\+S<-GW8UKVB:E0G+/8-.ZS"O^]K:L-
"WX.6X[N[_7/AX,.\C%7 9P?%81Y= ML#&!.:$-YX$';9O)AVIE+5G=MB2!.=+F<]9'-8#+!3"F;O>/&B6MV\
@)@5EHRH8P"IM@,' M04"',9H4$<3JCV'^T"P/TOL=VP^-(L"ENR$N2S2PY; #$)HFYJ#GSQT@#$"$
M]N^!X!Z5AUOQH$S8FSL.8'YIVTH"LSUF^]\H57WN?SKLD* !C+=WCBK(?;L. M&2H@35AQ/0J:L(?H[,-8!JIZ1P:
[^G++!=C4YV K4#V!OBSDU_*#U''ACD:#T28#QD:P ME' "3XWM8]"@'91U]5DA-+@R=(BI>[?O7GN"K1*@?
^QAOM%6R%NW/[2.M =\I#X&F(EF'_=6&DH4;QXTTU]R5X>SJ%K9:?*"N0)FY3H?A/ZW.[I#I
M#+M^LOID8R./VFGN,3W6?B_^+FP'JW9A#@/88-.V4(8U&M?;M3-J!^SM^51
MQR0[FV*JVENW5O;CC)KSUBB8:O!2VX M[,CH.6%1"-IJ./=DJ&['R*&-@#P5 MC&D%K(T
#/Y70R%UF"=*D_^$F5U!7R+T&?4/>,8(G;Z'?5=@"UX-==5$)EWH MR_^^YX5A>ML*E-
"@.4S@M@_'YT)'!&SUD@R:9H5KP MG2B-SB:X0OR2MA4T02*K 1O< &J@_-MI8)H>MQ8,0P=0$4&-9[;O@LIP]R-U
M=LUBCILKA30^;'030NO!=T,I#F>H6&.@W&\5I#!4'Z^)BQP"P=! M>G,9=AT:S0TTY3AP Z$IE=LY,';0;@L\>6|*H=V&
1IOV\T8=Q;16L(M!Q7NV5_:M_ +V%6##L_MP$K @2]T^-T-NH)V_.DHR:,)5P&Y#N9<;2>V/IL> M"Q>Y4ZZDN1(97
G50F-*NTIPRA[+SP[D*#)> 5!B["X#UW2$ M+!3!H+ 5S@!%/0UW8Q!_%8V,"CO_CBA>>0QXSU,;H^V![NWF82\V'5I?
#XLM MS&+=-?<(M>WC_8N1SX 6'JB/$P4"!WL^U R(+ON% +7L<-*&!^().T1U.$% Q!K\AI=;;
MCY,]@%\$K^"X5[>;NI\UZQQT&)>0VA^Z$2'F0,4PG#']XCSI(,7H: YP@!]C MY)]YX3M^T"8/IE7$87W2-C!U[KDN
'#4W1#Z>K8GCQ)X\O??0>1"Y?W?"?Y8 MU9.1EU31H)H:*K@3VSL@Q_>S,V&O#![9'6^ .ST HP.>6R6HW('W"F8F-\'?
MY?4.5VI/'66]Z"Y69%SCRI,BF]?6\+[/8]KGK]L.L/P8%#J4'?*BZ+P=HK;$ M(K;4"D9,0\:*'BILU0A%#1H,(^X/K& +RG&
(%JH$L_7V_9[A.$YD ^P&4T-Q M#RWP8+2E*:$9\8?6-FJQ?J8[/[P\R'A:;&FGA;3SX+3/K_TDNT+_/50 M$IXU/C\ .(\ ?
_;"J=IH3#?JN($:R4(SR$(C=\#/QW=X^;J@0Q*XZ>Z>$XSZ/6H0?8IH*7MDT@T@ ND,T>=E" ?X-/0[X] M&.Z&'^S'?*
()#4//=H>A"3P%2JR_M7V MA9V$09[$"P"SL \MD7A8J&R^-*" MH:D-7^'8B@S/@_V&2B.7N%-&2G<$O@=[;"L3L\M_<_
MN!S-<0_W)P:= 9X=.[KNUQQU?=ORQ3Z__3"%XEA>]QN^R[B([25XJ8;EMB]R M#!0ES0LW>>>6 QR6X0TGQ) M>
(&8G1-?!"FN"@W V"O(%CO0-P(5X5FJOW6HK6W3TG;K0DP8/F%GE6U[M?Y* MXPO)JVS%&EZ&Y%KS#CD#F9HO3+&
1\+S018!J)I!5PFH)NVTL:VE>_ABB&$. M=4K8,@GUO0]'PKB!F\AU4=;N KHFMQ!Y^,Q+G)]=S#.!J@2X&L06 E?#-FO
M(2UA]_V@SVWHZ#L2$' O,UC=L_=!J;>'RD/<4^6XMHH'IL*/(OJ/J+FL:C_(M1I;L#"G;=-/20X]??D:8Z?
GN[)05I)]+>P4I=.W9>\&LBQV#MSH5\HUOYU*< MUU,!?C0#*K?;X8VET&>RTVK?Z8V>LD?]9D8211LS.*Z/^GXZIX\
.VU *@:%/#54+1%.G6'_M(7J9W&F=HX4_N],K7?GH]](HGCTMO[23@PB/Q^9ASH%M_AT;D$MP4L'[='(T*9[X)/SVR.
MRQ/%0@7L.P&H'AB?1UIS.%DM4*D5.'C6\%[RL5_9L03XG]^Y$)LNT);G83:M
M%SB4@G^[X*$9PY;UG7])E2H/!65D<']\UV1KJC,9I)7E1WF,MM@='IA0]BYX MD7[+
<=16X8E([*E#'),';BDQ4,$5B@T]K)_A3=H?NC_^-4+_.UYUR=I/R8,5 M: 'XY/E.9AO+YSL]])#]W!AP^+P5I3&=EP00S1.
(R(H41! M%YIRLF9H@0C")QS> 4W5^WZT'&A4[G)3MG5Z8;5_X*_P#KK.E"7P!W?;W341
M"SP0*DKWEI2@-2;\F@G104'6##3K]@DT*H3RP+P-W$[;'%QU:Y"&ML[<"71U M+T3O($*)3",[L O/F(('I/0^T3-
Q)$;'2BN2P5?&8'ZM+$A14F'5E<9P5 MI-FL\RB3A6ESN$BT%L[YR$2AQ5GNRN%(N?%[4*MK1=8J[^H5=UQMM
"5Z:> M7VGE_JTV(\G=,_6LZDF1[?ZZX=Y@@=7)IY? M:9;$="UGM#=D9:C0<8>F-
IX/KSQY>CS.3=)=I5<6^HG,8O:X;C3E;@M<25'/

M+^4?.$O,DY.A7A@.LTUST^KYDZ7(BN3S*|>K^$:IUX9Q4JKYQ5QQG&UN*KR8 M.+URT,C5SKV9)%)5<5Y8E=P:>?
M+K[#M:LY)YUOZF914X3Q().>5O9F5WW&]TRE4M#C@TV65:O&EN;'CER>*7C^(R/B@9:YW3E5SN,3>G3A<_
M5.*J*DDML$G5!CM51'\P6\ K3Q;?&-;U1HL=M(5.NE9I:^WQ8WK= E?N%G]E MS:8=1 +SKFU"(P;J>GT
Z=FP9N=4HVF[&M=L+]DXV7?29L_ISY;EY?@T8G;^ MNH^-F%V(D V/GGBLTT M- BFTML!9$!WI?XA0F*!_|KVV-
)V1^R6M>LRT?M M@$OU_)%-!OVET"Y;V]JBJ=:1409D&&B8C5$-AKF:P6M58?3R;&8JRJ%G/]@*-V#_#=B'X?
K,LW]\1*+0 M 1.#6S5&(1LCE\PI:M4;DU2O6ZNU!8[1TO5>AO-7ROCS\X=>J4^]H;XF> TH
M8.$;0#^3'/BGCAU\Y+Z4)/3NG3I4?7?[U.UZPN*879W)LQ*60,T-[Y(@OU/, MOP^7_ZPJY< S=G!_& ^#N8I;DFQ_C|-
"F!^!.Q0*V"_=D >U0;M+8;S9F/OJ M1[L?SUO7Z)MOL CV;N7G]3XO[,.+A43?.1;O3#1WAL0R$\F=27]GDGAGHK@S
M&,VBNS,8S:*Y,QC-HKHS&,VBNS,8S:*Y,QC-HKHS&,VBNS,8S:*Y,QC-HKHS
M&,VNO#.HN(5BP0F87M,7L@MGE&;MTM!5F MEKQY*Z-^%$HK|SMX7DL"L]
(\S7B0]'M5KBNK'7Z]N'J!CC9^*PH8\LJ^IQ0Y]/6%9S.VP,55F_VUY%;IT?
M+Y@!'$6.$/_S;I@3A:5=@"&".>IN^=JN"V]NM<>>;04 ^R:(H7 UW+!9 >RS MAWKMH;^B+@=ADP/>4DI]57(?-
$6UBZJD.!/;4CTDE&&7O75/]&JMWK#=ZU12 MA8Z4>)Q/2LNWCAU[UCWEI(-#5Q9E935K5CIEK]1(
M*D9SS$D?!PP<&#@P#(M*RVWF+8H0Y!2M)_52)?EVK#'%O?M)QMCZ42,XF@,'1@Z,'1.FJP@S0Q0*&8EO/^D8 MRY
QAN$P=&#HP-#Q/M!Q?:VC*"G-OMN>"-*4'J?4IS(Y-*ZA=:AZ4S S>F_1 MBV?
R/6^5%;AQ&W7AI+_]3,4XBHLE:&RQW&D*IG"F)>"=>!P_[0SXO+R7CPP7 MA*="U!8;@2/BMSU:!|*XE<7P-
$@/EEEP($SCI%IS!*U9J8X3C?$53H/91$FX MWM+-D9UZ,>[V^;(T=I9P&< &35,QACP=_X/Q
N,%QHM/<&2]C!>&:=;RPYR4 M[ID=:B6Y2]JQ-]?0'H5Z?UU2F@56;W"IIX'+2-*:AWC! <.32|2XY!551XP7 MD1
AC!1$"&,%S?BLGH9+^+VU.T:7,W39PNN2\V> M6HJ\NHH]HO,D:>OKO+"NM/J9I-XN;W@>+ -
ZI[""\9Z.J/MQQ&&/Y)U&,SXK M/30*A+B<,8IE!,LR(4>PX'(D;#=_F.R7616V@$_);G\RB6OF')4W6E][*/ M\PF=-
+W14_(:H8H*XT[7<86U].Q I)DXU[$H!\Z'9K[]I&)DFHXEDA3V/6*) MQQ)_W4R(T:BDUXU^?D;2367"*)/F8&Q>
(]B@&>QCO);O9,@9T\QYW&HCMX<| MD'A4@,.ER5B*26")QQ*/)?ZZN0PO#0)_=XEOS'A6;&=:Q5ZG^]BNE\16K2ZW
M@,2GO_UDP!G/Q5@&)SQBB<<2?^5L!(JJ#QV[-*Z1_7:==?6TG1LMKI&PF!Z9 M@C9-
,6U!TUI<6B)KE.5!K3XH=TFEZ!B5OF*IW(V*/'+5_,>7 /?^W!*G/C?! M*\C1??.KOQ>2%XK>"^[3UY3X#4+D,C_P7#_
MG[TO:U(<9]:^/[_"T>=,QPU.N%M>?],L* V7V'[])\F&
M8JNU@3+5OICI*DK84BKS469*RF=NO])Y'K8RB;8Q5R0B1L8()%":_->S)4(V MC1F1AJ]#)F$1*\6>$&G'@BH/3 NWI?
X-$2M .!8@IKOQ$?9$M"$0.-J(F!LV M_$@1-6U#*#-H(#8!;68"FP#"5F;H"I(A$X9C$A:$"DOV@ =^-@IWIC?D\:AK%WJ"
M>KV: !W__<6AF< 3@P)[!9NX@O%@=]\["UT9?"*RWM\O7><*O?J.@Z$C;CHT M$6@*T0/0O"CZW+&)&;
GQBB$>XX^!19L)MH %0NVT"0;\(?97(-C)X ()06[M-P6P>^@-.QG!UM:!">R%^>1#6ZT?
2*SV++$OM];G]7FWQ+EV^98FV9LY6JF@ MX3WK%+1+$=JDHJ-7AO&\(S7#]U0)
[Z)JB.B*2S!VX/RY>IM1K+DF;CQ%LT)[M$ZQQ%6)7# O"P$2!6G"B7UCGD?I('FS ;MJB KN(' 73T-R'K70(*!-EOGN*
M8A%C #_#W7?FT([07Y'J/!%M^+0TU#Q1W^SUS,)_GR,-1L^;P/]I^!=HA$O% M5N!(/%'!/D'-
'<)Q.YJL:!IZYF$S]'7=0&*RP%R$1@Y>$/)Q1Z"[8N!QFR-K M#S%(M"_-D$OYB"S.>-&*#ZP30M1E X7_B):#OP8-
<&P""YGF"N&%.^V;W;=> MZ G$N1/D?4VQ<+==&;[8:SAY;J=<:+6?Q826#"K^K^5!"$14QT2M1"AW]U P M?"^J52V.
89TO+<"UG.(*X? LX,:#X!@ST+H&7O96.C+<$._/;)JXX[A-5U
ML,")LS6D3>9N?'BI.Q7H[G6>0"5O87PB6*A_<+$('3UZ"#0%*H*W'")IN3-F M:,88:1K2CIVE'"Y,SY,NOX+PSYU][C_N-
%Y9T0(D(V.3]W:&Q G_Y* 57\-* M@:S=E2=ZR]&&Z&J;[U)8J!?P5_X1J*"QE;?H3 MIJAVIW&Z)_=%3ME\C6HD7E8-
#"QP_396$* LVU2&#EY@)+@XZT!S<4=&((6] M2Z@">Q=!1(NS]I[Y+(.Q3D\'J2D9CE5BY=@L;]?
D+Q'%IPV=38DKZ*=M%#77 M398:M2S1+2FH:!@MXYXKIS; M#$_R*S:LG\ ]6OK@Z%&V!&F-^"YM"->['2&3
QQ'QV:3WB Z,\/YU4-I S\= MB%FP:!CJHK <,%-UTL^6&K[0AD/8AVZ:8HR@XX/,%">,3M)#+L?W 9>YI '1 M1/FRB;?
D[U.DJ$]W(3-_D0^%CCRG0;U0BR)/"*RQ!?\[\NS6-LWYC$';)WT49OOBGJ*W$C>4-.YY\VF?(?^X3Q(P;_#TQT;^(@Y^1
M?,Z$.Q/7X0,1>DG&L 9D^Z?WM=UGIBL/[\,W".B]F;*-^4^;>L+N&OS5&UB$ M>HI'[S5W)T$Q\SQ3_Q6)B8FRS?
;KJ4OV/-G%R-\Z,T MN;%&8S&E#9U29 Q;QD];1I8E-A^.J5.R952T>26U99955J#/GZD.%N/PC2XK,)YVC+7XMG1,C@
MN):TH=O9V;I;$5:P)7/;_5M3U%(>E;2UN5(14A9#=@R>MI2K]*;0HJB M+3XFR.:BL6EL=!ZU3)RV%/I#9\QDS)G:LEK-
"ET@*\L">CMUUE%)=R+3<8UF M>#'&D#E!T+OZ<"5$SHB3 M:85.0M^@*6O;,6QY-B16R,:H7F["
<6&6[,Q'5J&PC:&WGPV)L9BM10.IIH)^ M,E.29YIEE] SSX>4&41 I[AL5]42.TLT*Q+-"LI8B)T/25WEC7%E&(_QC@%%
M[TQGK56EX9:-.6YIKM847Z&7P=)O>=\]#ZSLO>LSOPD+Q:VB!& M+AA.G4#?ZBR?
BQSJ$^]LLU^S:R]G%':)_J5H;MPDX^XS-]WK_0P]^8/LXBY& MFXL;G$Q#N7#L,U8! FK7;1C!Y%K0)B=."9F 6*'_
M77E[E;6$FGQP@L(R[8N7N[V+W9Y"=/?>NG>ONQ"MQ.1(,<5;
<6N4*X3Z"_LPS;!3,0[(@=I]>>L^NDF;15V2FC7*"H:U6)&,EGJEI[\C)>3(*&&.V'NE2-J-Y-; M3U:7K45ZOB;3LUB)3:;Z[*
(W_O%+-RYL:9]\0!B.C<,RG$!^,>GK]0F'91?B MOB],&:(DO&R@- -.RV)/;FX""V_9B1!89C,$9E[V\S0/[>+I<'.Z*XCUS$NP
MOYZD)U%P M(+E!Q2[LQ4&9Z-C&[@,W(L.?' 5N!\=%O#;GD;)M[CJVDXH[\O==KHDDGI*)
MUXZG'$0\!\]'/H8,#6XGM=WO873PY:<;YB*0>S.\]"8#OWC75!Q:AN;8X-YA MY<44B_O-
]ZO*0;K@Q@>'@IGYLIDAGT@ZF!I?3LU3/)@9?\Y,8#2^G9K :'PZ M,_0;-)7!S 1P%DQ- &>/,C/D&V3#P=0$1O-
-9^:#54_>3,Q\H1@2'Q"#O^]. M)3YT2.0=-P@.*;R/Z;Q/JL)(AH:D]/]^1'Z\1QUHYBF2_-(ZQU<751LGR2MN
M^\M^A^9]?;[::I=BO5(GG+1_*_'H(X!TJGC,^Q0/+@R)[Z5X M+67M([5[U^I[[^-P;\+_V?AO6 L6
J_[AKQ%VG([X;EWPFNT [OU8K*W1AF M;N1/76OXWU(YF$ Y C]J$]=W]0W00[YO M">:KL6CM<-|'
WQ_K:IW'@J>.R80@$V66_U2BN:Z3GE;+BZ[849A/\[DZYVA MO'ATLOE|
<+2"SXT^GR#&^EC0D2B\H\/S5(GJI.)*DUOH9:N5Z$N^H\A7] MCLI7Z.$_7^M3?7]>=7]N.$SQJV+I^76OL$K3'-
^:.IU9=1WC1]FQP*![0]$; ME;R,^T3/C@SIK\"&;F-#E]CGKF9#PS+C5/(=@^1:*E]NU?A-)KMJW-F&&MJZ
M.6S2R029WCCJ(E_>+H8FLJ'(CU_)2&!#GPC"?#<1QD@M_B[>*
[I%J(CE@A73_Z"%@:FU7>ZUDH9Z&TLC'ZWE'^4@]3 MTW6A;'*U\7Q3)P=40XTUH!Q@E!^Y893O&
[@+K.@1XON7K6C5MNS&IGEO?V(V)BOYY>+XIY+BQMU41'**Q*951 !<;Y-RH<_SV,*-A8#9#D MOM'\RTA2'JS5=#)
M"4;U-!U B9]WH/UN17=9CQ.9P7&2BXBJYK0!.Q W0,U6[IT;8_EXN=$1C;;: M[61KVLSA9*:!RJDA#J<_P(B^R4Y]0*?
\=8)XB$V%+](17Z;P AT)=,1_.A)L MV@:V$]C.=]Z4#'3D"H)XN$VW?3U\7"KQQZ\VJG89;+2](['W6)RO=]YI6]F:
M+DW!6N73/6="QV>6/(C?.WO0GQK9F9ZG(RI0>Y5L-C])3K>H="VJ%8KALP^'IC]9W:; M
HU_9;N)HJK#N5$85\ANLQHQU:21D9?W/NX4%RVRJDY;0W(A+P?93*1?GI>1 MQB?_%(W'D>9_<-'Z7V>T;'Z-D?
W%!+XG22#\R@G^/!#6.F:5..8@GH@CXO]N M3#NS-(Q^F!XN>;6U6,7'6*BR5"2/+^.A5@\GKE-7F(_P8S)A$A@
FG=/F"J'<&^:@:F)=]1 M4H<\.B3T0 5MK8O:GL7)^Q>S5;OG%LEIE:&;24YY>GXI-3/]0JM;7/\XQ<3BI)D MB+P [-ZTV1-
,EG5AGMP9D(P9_%@"(SA;'F&3AAB_3_A@$+66^\!C#IAG G)$ M785HK8YIX5WJBM>/"VA.ACQR70\M"ZH:?
M)\X,1W=YSZ^]I)\JAV>IPF\SRL"NF'8&#N/YV(FD6[: 1H9?1<9)2F@4EE*I M6EP -9U:-+KI\FR>EC\F0 M3]3P+S1!
[^!]5;62=<*_(=/%5]5J]\!B&9[VY[4%N6'4<#>58!?J"&I5
MXOQ4X'NU:IY02D:O4VFKW7:VVH_TAYE4XDL(D9'@C[7]B?"D9A% -'6(:AAX
M=T"FZ$M#0;@LVB>T62O1>J0%D)4DTP&CW6 +4'GA6F[5Y)1+?FA=7/"&@L:' M52W-DHM,FFQ7NDW'ZC:@')-
PN4N>'SG'-GH;J1PPY;4RF4[+CC*6.DMM-FPG MKJ8K$GM'L53*H-O)5[L-?B$956T!XEE^#7T*A8-Q>/4!;'81
9(^.0BP5!8 M@Y@O)HX\\MU/B".9<_==G$-/8 WE9P-M8RN3)T^!(O>'NW\.1=#]$%I-====<3Z MA]D
SYQV].='G,%K^NZ-87YH138,7Q-FI5(D;EA5%4_E)SWW:SKH(V7T:<_< M<[WA9^:(6#C0[7#5X4LQYB*L7,@*Z :!%-)$
>K[.$#W0MC%LYCV,D08B.$6 M/A\Z% JT#LM3X#/R8IF+23@XX16@NA!;8FHGF!?K-; MK%;;;:X6YDN#W)J< *;3C'FN-

A0Q&+'V*^T\UNL[D75^,AM7-6S@GMA@=D7U MW2O@90/B !0-@67SA3DYV,F4:$$%T%"/H
41%NH1XNE&^.,@NQDBK%DJV,:0 M+>*FHFV;RM!Q&48QP_9L9B"UA%,\@:,')B:G1>U=F2!_> E,!&X0MH#IU4%?
32!K;JH"M3<08RF"AA'Z!D+//7>W:%E0 MW>$SUA!H%0NC+.XP8UHF 18.,H2(@GF
MZS41<3FF$Q\=L(5[O>;J+0(N+Y*CN83N0R")CH51>X,_BLB(PVZ/EQ#G6PH" ML4/@@XNX86(A[GOT>=I>%U,/.X0>-
<2*@-J,7A8V5@S=@IZ'Z4+JT.VG!:T_MA B'T2*[#.$3RB]Y^DXGFKXF),A7YN*W'V1,,]#5X"N%@K<9K$.Q\-+;42Q
MC2OOAQ:JV0^XEBP<^&[<+0].@4147.>\F2A[J2QZ>$^U>13)&6Q5W?17^GV M[4(A/Y%DLC58UO(=31[8,HHQR%
\$@E%XN=U0SZ2(?D-D7YXP\TO(M4+@[66 M %*4:Q6!N.!C=5"RD L8BD7A?Y'S#,P9^R:A==U!V;,<$7\B(M?
B77YG3KT&4S.F!MDC0H!+0[.OGW^"T,ZL==:)M>+(!+1PY.L+IBH:A3:J;_
M.>*@VA|U1N3>AOESM\%_,$SOU33>XQV#L$MQ)33_NS MS_T9
09[/>03$_V+./@9R>=,N(@X_$"$1\3@WM>.N<%W'[Y!M>7-E&W,$;D+ MUAWXJS>P"/44C]YK[DZ\0>;@W()
(0*.&^/>_[5KZXN&G-].-F*P>67/:P.3K MUEZSQ5\':O"2-A_+_I)(3Z*8U]UQS|V^%/R(NX,+G# IS]G2($4">Q/K9?E.
MW\BO$.[_<'N];ZFUV$W!=/0B!^+3NL!F9V.VS,*6T=.6U2ZEELVI8G%T)#JI MQ6@@&"HKT.?/I)OMY%20&APGSJ;9K!-
EY[+=@"W/GCG?C$;1Y4H'Y&RTJJS2 M6:X\9='-6_*TY=(IQGJ*TJ[SN5AODQA5>;-7&KN59XY;#K,%#@!-;?,.X&/Q
M>K$S&@CHF6=O-R=RKS,O"Q8_&U8VU4I:2@N9E1]?WM;:53T6FI1)6/%>CTE M".JF/D,'0VG5X:R0-
_*AW,!^YV&X1PFA=Z&)0@'I]"\-N48M##H0+*T(.K4D]D]!F77F80/58F\@/^^!5YQ>F 5_PQIXYZBKQZ+3"8 M.O].'?
F4#*;N(:>.>0J6NL><.?J)#*;N,:\)Q^BW"\1=Q@'YB;EL*X\/<>A=$^!8WN'>
@0Q=E93Q#5X:VU:W>\U=,PZJ*&!5#^B%!^474^K2B[)/CI_\^PZ&J8_4ADL1\4 MYA6)A6\-
XK<6Q7WU"J'U]]8K)H#NQX?NJPKI3$^^2&IO99_]IF_Z1HYOI#8" M.?ICY?Q#Q/A6DC208V#6GY#CYQP7?Y5\/9=?
W3&E"2[)4!=-=&5!'^'K!8;N M'C.\DFOB=S&\"R7C M-^&CP:Z/'Q3"[R#A.C=^EU0
$GXO6O$;*+&,I_J9@6G0Y&:=;H69EER*M]#Q M]MB/7TE@+#1-#5*YF4VR]-4L5OFEEQU33>$*')TZ"05BC WH:[\F@2/
MWVW\B_(U@8T_N,?REI%WZ#H;4SO-@;J@V6HY*TBE2&0,C1SZ*4PR$DK2KX4R MWS/=DU5TQ9J
9SC%&0W@G2.S=&/C\,UP=@>'.'9V?7V*PO8*$>+3>INC+K
M\BW%IL1Q@QMT1^CZ,'1XHBR@G1B?."TD%B)TCL!/#P'7REM_!!XX>K8RO0>*9,(B_']-EZHB:6[7&,_E+L%BWQF5J
M,"V%^2YHM\5!85[H35@A[KI-R7@D%*7/BU?_$Z2*;NLD^_JSX6JRXO?_T M'K
8VBI#I]=@S+6RA4U$38&!JC4@6,006,3CT5 T>E[2_9_OGG+R!VX$6:KO ME*7RA:0>(H+UI>B"I-
"W2@KY05*!-7Z#%,QY)<,@Z7*_I(L?V(#O=*C0=^/V M01+ZY@D7:-
7HB8FEN(35H*/DUVS*Y$INT)6ZJA@K'OFF&82(2IVNS/'OM)P
M/R##I12+'RPD0(9OO#UU&1JBK<:HS.>Z<751U25[4*\6%T(#0@,^:$RB@\;, M:Q3H1]3A7\]=E-\=]B,K@/*?
H]"@SORX@/0+8GB]G1W7Q *[C6AS M/7FQ?'R\,QP58T*KJ]*\($Y)I;Y0*^-+Y>-YDBYT-]OD3,V5B_52:GKC M4OGX*1-
?YFK5SH+;3.KC:2]+&7682K6VFASM9Y>L:MFZ5)?RPP MYR74F94^88?;T8I++R'6IZ]O9!/5K)6HSSFNV*\J+<=O3K)-
F#+ ML[=;O4HCR:W;%6Z16A>"6L:36PO%]\7G3I=JH1[#.F 'E5<=5K]7O%BH7E] MO.WS^CZ[&Z;&8
MV'9X994V5]WMPFG1=RL1?K*$?J3P/!$E=N7FL\H:C C6L@"Z'^J5]O@2=#WL
MR5=7BW]1'TT8E5U&YV"),I70M58XX=V,?^,""=>>J\'=.=C_8.X><^X"P'S8J0L \V%G#O:?">;N*^?N
M@YNB;\8$_I'3EU:;_)*=XV]6ISL6>^@RN;>K A^HUU74*_+0ZG6+,O !NOO" M_+Y7 6\$X]^[@/>U"L,'BO5A
/_>BO5[E>$]-/?#D<_7A- VX(SI8UQ8M2+J MCBQ*MF.B3_9;1%>S+;_+P@_GFW ZQ>^"NLJ!)C==ZX>A^N ,T_-^KK=C*
[RX M8YO:M#=SP*X52U@Z6T7P+!@V.;+???L*=E2%QK"I32.-?D4-J^'I?%#,TU3Z MTZ)()4/R<9[9KN[>[PFQN&DN
FED>*D9*("5/6H.QN@@O M6Y+2ZUB#2>-NJ%@=G!55@EQM]*]7O%]%MEW)TVTJF8UR7
M,XJ39HUM%+,KM\X^]*AB="B6O&*=_0?)IR%R(L<&IDM5]$Q?U#)D>R6:URG4 M%D2TWRBBO;:3YH?Q^@!X?
\]OVYGQSFP+.NS%6!EJ -_G\!!XVVR7.\+8DCE% MR+$B:"0MN7$_!#:'RGJ3KPP4M<1,RGQ13G>&QLJE"8C%H?_&)
(*,6H _=_;R M_#!>'^#/;SI^[P,@F\\W=*?1G/"EYFC0LK/5@D/?+X3LM$9]LM$ID61MEA'F M?:E5<&HKE\(@P3"A>/*U
/(;I-6RC@E5Q@#$!]O:NOV/JJ\'Z!U']5F3RKNZ= MWP;O ZS]C=W3O04?-O+051:,X1!&U6U^%IU(F_FJH=0K]W/O!"-,2_-
I/*6F MM^W,)MN2!3K7<$D1Z%"$H4*)R'EUWP![NRYF6OGM\'['M^9_OT-? 1R#EO M@G&X3K;J@L#U&\5\RKH?
^/!RB;$[F>U2=4";;VS4>;N>;+B,"W0HFB!#2?+Z MSIT?8@>_PU 0?@?
A=Y#^^ZIR@1\&TBYHSXQQVMEPX>1,Y2TMMT@5QBY' Q4- M19EH*)E\K4Q8 !0!4 1YNGOX;]>M'OAAI!@4Q4U=#K-
;KN5LI8IN/5?K?BONU+J/UGX M(/*]>XKLROGZCUV8? U89HKM,7>FN96+L-&(D0EJ';0@V H@)(.9Z
MN3/_R<('$'/_Y-IEC(E-N\E4FXZE^-F\FC+7PMI>F&.7JB,1(N/HOM.[J3J^ M@-#BC4KHQ[#P$4:+^_?]M+;_KI(6P5 A
FD*(2)'DD#F-8=&8A$3<0F((0 Z M 9UY#?Y5D17H;]H&4CBD,<1*L2<$JOA&,"1^2(2 CK\%WXY=_">?#)6U4/'_
MXWZB9 0F57M0U2.QD'::++1F%/1)L0H9[I MADULH+7-<1\(18=69;G]\(O5M U;U*#,GT-Y JSG0+<0AX9Y/"[T 30@-
X%C M3TP B!GLR<0B 'S7Z(+M8<2YA;7M:3LB%VD[5K:F2U.P5OETSYG0\9DE#^*?
M/KE]F.BXJ#^9=+J6J##F4!6M7@V >',2+$,#HR'DT/1Y\8.;&-BI2)A#D3"" M+!?4JM;-+DBZ/IHPHTF]/YZ-;R:2V&C#QV-
B>,RW0(-<-'/50@4T?ORB*"J4 M9,[/-AV;U!/Q:;VTE/77:^7'R&1N- 4S+M.)E4NS#A\N));T@*Y&(STX!5&:
M#I$7R@'=5BNIBUI)4=7AW"B,*V2W68V8:M+(R,M/^ZUOBD0>)HR^J&H:'TO' M)T4S&IXD+&2H5"3$7-
C]/='*BPQL>U*J4K2JC"O=14F=M18=)C+KEFBY<8FV M3.:CY>S*ZK6X365(=7K912(982_1EIEM9CHH;*,U59Q-
>4K@"N6QO+I$6R:/ MY>DHIO-CO@:=[VYI::OK5.,2;9DZT9-<2[;"9+JL9;/Q'C<6*N-+Q&'I?$S7 MT[.TH-).OYB-
QRTGG$.7D,_>/JZP[7&^:6]YT8JQ:;(!PG,-/?/L[>WJ6,N7 M>RI-AD<\6.=SR6^%JQ:BV&FXFVK-E.\N-Z+C95Q?"
(8R,P1B5=\C2;+7.Z?*V0*X:KH$JN@-&K/U*.P$UH[Z"FHH\B\?> MHBASL3^V*\SIDI6U@331#&F49A[_.Y\5V_O:/B==:();
(]<UT8ICG,S[:S%5B\?ILNDTP1"2Q.%/[D\D%T\&-!\7]>7@FQ_(I5^1]H@.9L:7,T,]11+!S/AR M9J@G^E7NB&!J C@+9B:
LP>9&?(I0+-;SLS'C]R][BU_H1@2]SKO\1:0?P'% MU56EH"[#]UN1'#60"N-[>6]ZO"?8FE M$*X^$K'46]*
[*D59H#IO8>PW4YW?)B$+ /?AW),S3:C3(>_7M7^O8B)1]9Z4Y[H&6JW48RO,DKEFGD5R[Y%$.'(A$FQ$1O5-
PV0))OCR38 M6_##T+X:2"Y4I[TNDG2ZV7&S;;4+9(P4%[FM6._5QO=$DA'+K<)B;IM2<]:D M06]RF;5 -
SP:JO<@R2.F5+HF%!-1D^7K^59_)OQ][:BO66CHJY,2I_#V[QV* MDOG9.<)W'U[I A:,$0T]#X_M^/\
5LJT16=#R_E!2UQ.:7=K8AK:'+ T,"P)ANL<%^/\:+J14L8@"6C6I0VB0M$$
M%8K'SWDAK^CTJ=W&9963%)AG/HY"R=&1!JC,LS]6&D71.% 92/.D1"M&Q4")*A4B2\EG9
MT]]&!K]4+!0/'.)]93A\#=,M7FH_UZ'13NO0^+ITX6T,IE_DA7&K4-Z2<)IM MJ1\FZVGG\P0S!*OR:?=NUAY;9[1JJLZT)?
JII2K2,51PRSW5XC('L8G=R]& M=[E$XFU$3_=I9\YY*5[+ M)X5-
)L6GLWJWM]ZV2W0=E=\,Q:),*!$_/[+Q%=4?;R/\H1Y51(FK\JI8BX'1
MR@$MVOH\XV+U\15M4R;1@Q*I4HMDJR:N]\&/GH<:9R4&C 98-^X.L M2QS#(8[ACW".=._7HR M;X43A5B#7-
0BLS[7Z-2LU)=T7X<0<])_&1H/_!\R2#?7O@&B:1&*18CSN6FL ML35IFYM7?O=S%N4]6><#<.%
<;*G"H;970%N""E[%+Z+>:E/ALLMZ?$GF1O9, MSDYM.Y4>HVN6U,5S-)>KZ;JU10YJJ$@:G$44B4]VQ?
YV@3;2EKL447GQG@H= M>0ZFO>B$HD\+I?S/4468_:X-JG]HF#]W.8*#87JOIG&Z8 S";L$9488O_BEJ M*W%C[:+PR:
<]_]W/?9J!P?$2^<1$_R(.?D;R.1,NJJUX(,*CVHG>UX[+)^X^ M?*/PC3=3MC'_25-
/.)Z#OWH#BU!/\>B]YNXDCF2>9^J_(@'C0&B__]NNI2_> M-GH3A'
]3U3^/VW@^I36'I'$PWHY+VGSL>POB10:AU>KUUWK7ZWKZ]7KO8<9 M3!WHG,B;=Y2+]>K#$C-Q!' L@ #)0F-!#"-
1(Z+8R):#OBOCC0-R7,$H!]D M8 H' L'%$HH&=AXSD;#0^!7X>HEHL2WB;Y2CH,E_]Y_BWZE__X&H#LT"O]*+ M1Z ?
Y6%JB!AY[,<>-0@5PZ$('4*N%>S"067;T/,+0]A'/GH3KGEKKPQB;BJZ MI,PA$!-_HV][W?)22L0>SG?
=^&,$2O+\TC1$[$!'HSJ[-%N%&9" M2T.N(FJ2,T4=C7/7]&\1O4*&$SMZ[4'_A(C51)$FWBN?NP'6P(0=A-^&72PZ
M<"UU664B3P0+5UGDQ#J:C280IUF\OJ#Q>!^-O0YY,Q(Z?<[NQ2@0!++L.L2G M98(/)@>.QGT+BD$1ZX;[WM-
(U".]@9WXD]=^G.ZL CME&&I'U)S7:Q47H(5 M$XPNKO5UM9=7:;)HD8NZN:R;,\XH]&%X":>'00F=Z*6L@@ZG8 C?

32S1RU&A MYU.^GA Q$4%8 M&U"$I,"_.!9X(EP7D;AY4O,C@.FWA.Q'^EXU; 3/%K(@Q8/0"PAP DG'UKQ2 M- U./P'?H-B:QT(%3%M4]#U-8V-J.'5X+UH1LBF,3M ,46&6O"["B[0?*,O>]3LW(B;8!1F(ALG>5( ],2"\+(%E8U#+ MP!!-,RS'O%*O5BM1]/\=&*]BRTYF$NF!/KVZEZET%_>='B3@("($SO:@>>A MHB+Y>[V["^O 1RRVH!/(M[<]9PPI^ I=FP@;LKS3^,7Y'Q5'<&)="P+,UL1 M6 C0C1]*Z -G;KC\ #*$?]>FGA\U@=8%%<"&'I\-M6#O^&$[/<0#Y&[-4$--M45'DCO$!D6IATCKH42X'P2C?VS&"* ,QR9, M4<$KQ6[XHG;+&;Z MZ.@Y)I!0] ;_@'@5S#&XA8]R5U8BU^9;0'),[+-W79$W@3B":I[Q1(;BIBP4 M"79#7$\#2:QL0)<(ISC9&8R1SW9=L>^14XIF>,PU3#57]PL5IM@MU.>(UB@4MBT5"D2Z,:!V\'BHV_,O< M,2U'])Q]M$+9$#[1IU!_#D,<_% +ZA280) "IN7%& N MQN%Z^)]>CEN>4U"N]7<0JLN$A%BCY0!VE574"Y;@PN N .A=ZH^'"\0@$V6M6_U2BN:Z3GE;+BZ[849A7_?/+=,6:DB0UD29/U-^[#O;$G<^]Z@=FZV;N?R0 MHSNKP621&R[MS-&.*?U^>L+G\;+[X=9D5\FMFEY6H/Q&^-,ZC+ 0L^;XF:DP M3!]H?Z+64@IC8]/A:_79?$'S74?)LS]^19)G:O_7#L0A3MNF,G1<%@[1?>N.MP 5&VCIV<$2(LOMNN!^'H ,$HS%7#44)_M7-4:#FS_/K>=4N&=OM>0T_LL3M MO'SO[/4#N]=9=ZDT]]ZO-[?["-=;60(#>L. U$5WUFKVIR5UDTJ/,INI(Y/B M2P9T:!$N:N%5_!FR<"@;0B$%3A4ATD\H/4L9860=BRZLPMA@#'0)31N:I[T;M,P3/'@ +V"09W;&8P]CNZMC#;F69T;MK=N0*<"^GC MNDLD_T9=JL]4HGJ)13"K+0 M3P?D9&?),-%=L+G5(%WE!:EMFHL;'GV]FR$DC,+KAKC2_6&T6OQDU4U M?)'#L*V(ZW52[=GJ8M;=6DMK/&ET6;<6SG'+06;2:M?%C$'2;:83GPZ[\6VB M<8F94!,$>B1DDC99&RJE)4,+ZRH]OL0B&&DI]-NK&K\(A4#R6*C%":C#2%Q MWG*]*48CFC*)\>E25&1;E017E5G8\JR?*;95C,:SA:A:FF22E#V*]=1E0TA>MZ&=5'DXU>I'B9@V^P5&*6*_!EA1YWM14)J7(MAAMDXN"VLC/@:!-+!:=Y#QK M6L@7LW736#'J)AT>3<+--=MICE'3LPG55WK"*$V[&I<3E-C8ED;K@;!"3>_!MC5A#D%4U]+1[AM/C8#O+.6B]7IH;E)L.+S;R"]*9I,.;)'O.DGBYW7U9$G\G M0Y$@P@06">%*XIXTB*]N#NW#B,/>O4'Z-=SL;?4XV=N02P@5S[/9Y-?8!5D MUYTN.W$,COL%J;1/"O1:E(%WY@.,)9^B >/,,T*13V3T&:-> M)JY/MN!F@<$6\'4!0Q=.CAW@8_YI7/W MP7(9;P4%_A%3XK?$](AWY5\C(;BOV*["[Y6,^8O"ZH((WZ)11)ORCT+I]6?HMU&T+7=Y:IV[!M1@@NA^L[]:::;6U6<[90;<^]TH>+X'@GTK!]'ICG@76^1*;2*SOU M5$F93-78PF(%*3PQ>LV&P*C'K'H9;:!P-(#2[]N=O#[6OI!V;E6)M-IV5'& M4F>IS8;MQ-5T1?IP#9C/FS][Z&UYAJPEN%AB7:>T2$-CR#$T]=B/7Y$W3?U3 M_HN_*H.?*S?K7;;YKH25?D:Y1R@6[GM)NB[4(XCR8UA\QA,3F&5@EH\C2=?? M>011?JF+=+$4WX"E!'*O-QJCRDN!_(9H[+M4N5;!$=[-^""UZ2OIOG^>F90 MJJB9F5A5LEKV9.6R3=(OT+%]CZQ/;/Y2Z2W^3F@]CT3EFH_=V],M4",IR'H]28YD4\XFUXI#*B*J/7=K+ M(L5(,UCB,WS^OPF-Q\@S;VR8.^ &KF2D 6^U^ASL_IL"PJ)AMB-K2#4Q-X# M-=\L"Q9[X93&X6;FN35YG^QO+]WQX(9_1>DC"HIC@\D]>[TF:] ^G79O<-@ M P/UE]H%!OK;B;0_UT ?.:7DOK-ER/8*E:7)')143AM6<(;HCSI9X NQ_(EG MD-Y)/U0WC3F4YJ:NB;K-ZB-41A';:FK3WLS!49WHG4D?6+179;PZ>CP'C0H#7S6H%I[MH%54P*[%R83H?+.V52ZN)61^" M;%*/#X0RY]X)NJM#;_K0D]QQ/!31TO/^%EGW9W;>JO-?#RK_0'H:;2X>,MB M\T752>;[C-29;*-4PZ7?3,2C?U9NR7UG<,(JB#!]+:G'2 $%)Z1\H2R!67VO MQ,W]M[^NZ^%T5+6QM%+M"->-V;-^PJJ+K?&GZ^2_V*]&T!< '%^2*/Z3I0^@#B?^[L?P+CV M9-@U-LEJA$LW#7$H.\O*BL$8![U8)D:%*(KZIKG5A[N2X!.Y^0BT@@,_CW+4M\'5!^>MF0:!0@9T]ZL&Z6PKJFV6LW'>Z52>.F0&#",YO$1P#PXZ1X2!2/%^& M<%>L4OH0LO!!#';MFA*[38*++).7*DFT)IFFEEP,^])[_A!%C[EJM7D?@HN&CQV3I;E<6%FENKF7B\%W-Z*PPNM,7RWB'I78N8_F$;VUQG=^I=0'K^""(C(^;V0\"5]SS@FU'L"3AZQ :)) -APM1.RH50B&"A%06>#_[6=>9T*4%HYB@E$(J0;4(*JB:0JU6'C9XFN@S-?8V* S-]) V*Y> M+HT7(J"Z&2L=F-9$F1,*HEF@T-R?Z?8X80! =ADN=4OI6BNZY2WY>*R&V84 MUN]RIS^ 29>[5]M)K@Y,Q%$ACI^G)4P?S(O=&*2ZD91 J;69NF;[4=UPDG!> MF+,9^2L$9P&;".H;FHBY"60 ,1 M:X:DXK^+R#YP"4#IH 3@R,UF(RNTH&G: MQ%@3(8Q:A+4[<8",S('6-=P0)K!%18/=W[T//UT% '\?OE>!P]1MP]Q)9D9 M^ABI!8XX0.L)Z*@OV7JS+&I[TQ[A'1.]"XBP;#RQ@;.W%K1VFUC*8$>6>;$ M[(25=($2F?FM#'RNM^B^)-,J:2R/2D:CW1R4Q8N=R\8^ 4%"5'EW;]FOK MU:UP!Z2D98<$Q0'OC L:'QE#7(,=L7!=7 U8%E0'\78H=SS_35$?NY.)?JN(:V7FS+SIN[E^M":; M'&,MZAQ'=YK"UA1CY*#8^"(8G.G1'K6H=X!:;/7;;A8)C>]VF<>!B#L$O2+,KPQ3]%;07MP1MV//G$[YF_]PG M+)!<"(I\8J)_$0<_(_F<"7UW6>F*P_OPS?(HKV9LHWY M3YIZPE@.?_4&%J&>XM%[S=U)@HEYGJG_BL3$1%;^O^U;^M*^+/X9*B>T)NW? MPYU:[Z,?O]HHS8!@,8U S.T>:ND^.M #5[2YF/97Q(I-Z$1XKNN"X=SI(_M!:W72W.#,DTC7.U&NMAVNQVJK5)/',)J*4*%8['QC M LO^UA)G#B5^[:-SPWBF*(7-&2=>A&U,Y%9)6>,[RAQS>3B3G?09SE1ZT5F MC&7F. ?Z 0DFQ##GV9 0-"IK#B2$<=H&NG:WM3Y+6?O!]AZO$-@G-,%L&[U1 M=Q2C^722:Z<[F:*PW+RL";>U/>H.MD=%:HG&:I2U2:69B8#<>I[J@WM*O%)4 M)(?I3QC.R9&%]F0V3C&K,7)#+]_#.C&^O0M^Z&7Z1V(NVVBV3Q" M=PY=DS MDTDEO%[DJ[):4X:,GIUQX=E@#)<%\K3E5)@O9+Z=KL-@?-FL-P=*/#QNP)9G M;\|6)XD2.[-84ARMY]%:>SBC'1:V/'N[8*JU4K^S$LG8<%F@D\-)FQDTA.CYMVV.)1KQ8:L<*:G@[2?8G;JY3DEAH-F;58IK5.UL1_M;ZGWF\EYHF$G5'JXXC=*(=RS1V.W2N!QRV:..3=KQ3JK/I:E!2<@.=&:EL4+R M_)FUL!ACG3AO\-V"4BTX9D49&ZCEF90VLU*X.NVU.F0Z04E]NC:JDCW4\DQ* MF9%19F+EFLS'Y,X,,!-]W!X@73J?(RXL]62.Y\F8TQK5J'$X,97'E[2.E+I" M)5NR'$V*RQ5SA2*?)$$%< JO%3LY43$];'KYU',_9'UJM-4MU&IFII>XS8!J.JE&>EB;-LYP3))@A&M;=7&# B2(KO 3TP&CLB)B*U> E5$LM23,LQP1M^.Z49DCJCUUXP[=R^J(6ZQ;Y7((U-YW11')F\"T N*

&S[I; MQ(BBEUW$^!H?>=6P@4OGGMQQNR=HBOJ7\,9.<*Y38^U)R[\DUMGUQG.QT(Z!M;BD6\K*@[^3N46F:L4+''7 O;ZPKS^FRA2XQ68\YD&*HW/]PL06 MI_-IC[V7>MPC"L;'%_8I(_>@B@2G19Q;X.?NA\.>HFGV.HG2"I*;CCBZLR$Z MMK'[P,WEX$^.4CX'9UV\-NUW>]A=-3GIYL@6T$YO9F8.CB*M6\J#BU#=N@ Q'W?JJ*TGWQ],/=Q08C7_0A/N3R26B@G^+T3668N(((M7TLSH=TK-[_$D"'WAWU"*5"OKU8OY]%U:W?8V],OZJ)^!=#^B-!^:]79I;Q/ M_W^&35?#\"\LSW1K8:+T^:. ^G=2+.:[:Q430/GC0_F-W2B_E"3ZHMH[WT^. M;^6/T$&AAT8]@/*\:TTYQ\FR,]Y,WZO)[,[K],5Q_EZ,!LTSL4?5TZ;[_+ MP==U=7PEJ2N5S4%.@Q^&ZH.J.+>JN.79-C>;:\8&@!30@:S85OK%ZCC; 5MA M96"3&5+#+*9(F._F)"(28481]^&*H/$.)F=;,^ M#!$CL3V9]A-ZDD\ODL-^)L4"T$,W#G#]K#@%_R/C5RUL[KNQ2Q=\AB?)-G9]#(\T"\ JRY6R6'<_G79)< MM#AM0_%B)@98(8J<'RI*A6+1U\APVL/K/V!,BO?U9%YO[E+62VQ9?3"@*>MM=*W6Y0O6L(^NNV%^%CI$79G[^K&20;C2TH:H#>%8\"6L(!,4Q'FW=G_\,%X? M8.2M/'"*(C:@*VLZXL;&+6AK5^U1D!8Q>QDJGD).S)$_1?*[)%E*TT"ROF#'J M**H$0(48^K60+\"+"]NXD#Y8;P^P(N;^52?!XRY1C:J8GRJDB)H++-\3V< MLX* @;)$B42(CIR7#OE6.2*/]^;L:GX0+MX4/U&J7E7[\EO@_\8-.)R%O0U MY!&82& B+S@,?AO\=_8>7$J6LZ(K+SL-,DOFG>&6!URI'LYE!GI>S8*&$,=.M0S028A+7WUCR@POI=^ (PK#O%8;Y0E*/D?'QI>P">PSL\4:'??T@JL=AX?5= MU@&7.@XBJ'M&4'X@=KS7:5W?#=P'X=.-CZ^*W!*2YF-RE3G0W)AI49ZIZT) M/1O5HF4PIR49"T7(U_*M 4X$.''-,[N^&[@/<.+6!U_>!13\O*I4MP70X&+)M>9%,+5.1BC6&0!'[\8L.12@(%)'S,OK^(;]%#0Z4YU5K]S%2O%FV*,N$"=!&)CK&A*C<;,(V#)68:Q#!"/3;M!"#N#E2@>D(#]6K6NWQI.%=BOB_ELL&LG\L?#LT/5RL+41 ?)0F M>);$^=PTENZL'CP9OFHFCN[9=EE2H!_U#:$RX :^2K^QE.5;!]0($Y$:T>_ MMR&,YT-A+B^*K@-7"IBF#Y.BB"YOE007$$00BJAAX83,W0UECV]O_\Y[+LQ MPM-UV(I0+&(,=#BE&I3.D:F'+2"%E778->]?>?R/$,XM.2E>K4Q(9ZYE(URYM5*Z(JXN71#\K4/=7]*!7B;OL%="68 \Q^!_B[W<,(3444E.'2G8YQ6X/3'8[M8XO9\5<,@:*/N_^/NQGC4MV$(-*

YXQ(C0V!P+_BXP]T29"+0(J&@N'\Y^FC%; M]Q&-[SL$8H:K484*4W5.F?;J7:':54<+]J'F-+T2*:FEC'A.E&-FK&T/B[EP
MPQ=SZC$7N?;H@J:B2PXFX+0-9(E+901V7$<6N P"B#()6+8RPXL4@C<32,@) M'"$415/NK6B:YZ1L=J@+OP-
VG$IN)W:(LWN>A2%!=FS'/'B[VU67_M.90^3Q M,,-C!)TH4"--
Y+DB;,'K$EH53/P\MW_N@NH^!Q,9ST7%_$+J7#P!$\3]N2?7 M/EUR=E*|. ?OI:/"+%2BY;$P6'?
F8#@Y4;1S6C%.U5P,3P"$P,">:)C 55J* M?^G56JLU)'/1&AF9+ICZB$;,D|P-[FN\&1E\@5(W MGQ/$*))N
=N&WQ_O(%.YTMV-U]WJ/QKV?"66ZQT\?|NG||,A*N+O1]Y-N@QR M=7&#>+3/6*T1:;+1;F1*UGJE*BMAV&BW'7:V'
LT!CLZ&4IG G\0#_X@;Z[OW)/#'T$>7RI,^D#U'U&$1=$ M+J!O01EE*7+@K-5T-T+FF0)#DFQ#8-P:DZ$D=
<6R*W[T-/T ,($C^BB.J"_$ M\@@^[-==!'@0!^^M). %XC>7)RAP_/SF^/GA2.W790C])PL?I!#O6S/J4NGP M39D9-
9E^62+JZ&#QEQ_G>&UWZ2.'.TY/2'^C$],W M/C%4T"5C!MKB.J-8DF98CGGA=%#%*A739:$>Y](B5:Z6^H-T(L?
>ZW30RP=G M7V5)JQJVM\Q2Y(YO+D%3U+^$.V8"#AHEFX=?=3+]^.3O_O#9\UEEQ>VG+:[Q M@3IT2E>$&C
;*CJ>>'2>3P8C=&PWA(Y?PR;HR!V$'-@!??\]]R#>2('/-2U" M-HT9/K_&/[6>|+<C%|+?T ZWUW'4.T?
WCBVC.#8$/Y4M M8!/##1SF4M0<=Y B.CZ'3Q6*8]C4LMV>CP!|OXE/?.^E)%KP^];314BXN7*> MFOP[[5O$1B8
B8P-1W%1$(=128B(HXB0B"49@8Y$(|-H4J*BT0A|P7_$#WU# MH#_Q'<;
[SJW/*MH08B;05]%6<@L'R@E9[&LP).;;DVQCWIF3X2HISE)YIT>W M6'>15G3H#-H'ZAE!3)N;'
W8!T"!D9>U]&2+C#/89H:)B$DO# M1M@Y-U8(GU$+]>TPQZN^P'Z@G5\;!M=%'FG@VM-1(B]PCS?!$NZ6BAPF\4Z
M' |OM1'%-G[7QRU4LQ_RT%?O)\DZ7*]G(C&ZURZ)29'1CI2 MCNBK'[]N-?@/G1&X^>A99>1
<^+F7#K9VE*)>;Y6BC1^_(J&8 "&_KO@ZY]> MV#K09%<:EY04WR@2T4TLO/;BRP)OW'W+*.C.
HZ?/"E',W$K40FO&3Z]/:YY0A*P1-#V-:ZU6I.QK-BU8CVWP+#.
M'DNS@DP;X1I8[<%?;6>+9$<)]P^LYNFN%_O=]51Y=U4-3 MADY&6T!_SWS5'-M"(X9NT66<9O+-
@3*TNFJK.1LMG'JSF._'#Y,?G*J7-"":*-T].G(+GV_CSRHR.G)^/|YNB.P MS|>C:VJ&^7.7=#\8IO=J&N??QR#L7D$09?
CBGZ*V$C>6-^QX|HG9E0OYN<_; M,S@6(I^8Z%_$P<](/F?"15?@#D1X=,7-^]KQ+;?
=AV]8.FTSQ/,^O97$_'PXGJ^$&C[\|*(5]4Z0(W4%2R.[*]RU2TT':6[P^][QQ3 MW!QU+A]NQ)**607>-
$KE*B=.U$1D4JNF2!5**A8+D4PD%(^=7Z39.:T'/NDW MD-%;?CYHQB;2II ?J7#ABIB97)X9C2$TQZ*A2#0:
(I/GYP7VWOV!QWXAJ7-3 M"=X3X5]1,VJ9;W(@SPS)W+JV;ACLQC)[KO08$JI9XAS<[ZAF]Q326WK6%)::
MF8K$%VIKWI>J6[LL-AV(WS$H)3H:HLC$!_1L%PD2STG"KW/[/K.O&W3TM8[6 M=*(B;HC8+O@_J,)#*+.YAE,KR';
(I:$YNBV:F]W?42@$H)NT,0U-.R@,-S>- ML2G.W.)7\"_ 8UJ'/M5HOZ^';!%9$5)]#O>]3#F7I4L2]30B^ #H">/B*3<
M6.J@IMW[??FY8P(!V&2YU2^E:*[KE+?EXK(;9A3VA"KEO#;R):@U0V!6XMQC5MH MF]O5S[PXU\-8,[PM3,F\6BJ-
LX,(2Y6$SH=O=>.Y1%1R$AQD&HZQA8>8<4#; MJ+O LY_/N@L[%U?$;#&?ZJ696)GKZOE9L:WDJ,:0115@J1?
B0J]FFN5HMEO, M$DT3\B/P 2A4O\T]4;""(G/1S/W A3 (=:(-,1.?Y?K.4-6$ ZS)!4\NN^P[M%@H*M>
OKO59>,I.+/!TQH[L<-.O=ZC(O)7C6RLRP39EHVI,68_JO?[HXFH'RE4X#)] ML'BRZ&3^&'NFJ35Q/$\W$?
[OKL%WF0M/XEBR5D%W;]=_3NR;GADOR(F:P[74:K*LL3V-BJ]0 M4BYYGF0Z!2PT"Z)[LN4V6P&_.QL?2PO*3
U03&%-*M]S?\MC1XHN=< M&:#MX!,L\OX"ZD@X%Z=C7:O9S?(XP9/A:3;:EXO#!%MY$?WQ%H";@GPB4L:N
M7OQ[%G))4V290 L5.J=Q(02$<[A[!'R)Y0RG$.]0N(B^@Y-X;AB#BM.;C@:L M+ZSW_# N6.%RA7_6-
F8*F*I$M($TT0W-&&^(,M01Q'-.C!1+EVILY## .C A'-R@* M$?:C9\D1I MHH E[NPA7X2]TRE_=CV'[I!F0'S VHWC-
WQ, MUAPZPTX"Y6O;/ M_-L"P%7U^#]/!)P*%*':.QFYI\YV$T3L9\A]Y7'/4,'[YYX=V@?*986\BT5C M]&V<:$.I-
WL;K#M1#@"FH(@'$*ZM1_PB;AEQ\1W.@X$C!XNXAC)2_,\IVW? M:=BK(<"JH-BV>Q$%6V[H(5H7*YACS7)6VE/. #
<:R>[K!*NP//>(M(- M!'4D,^UHTFH]7A\LYC<1DN4$7*X&,I(3OKRYS5RQ?]7T7[OT7K!#,13NZPZ'G]V'_CGQU-
MDN%HN]PR@IP.%,&:,%8X]>^>X24.C^_N-K$/H1=3.KD/PKBDHUH3NZ7 ,"$> MH4V'"YW
N.B^$;Y^ARK>RW4@FN_'F'=G4KT=\F/%K*UT*-*),K^@;"W1\M3, M$+?QQ, I;+APH]2
[R!I4/UP&G47,T#8,DP<^[I7HO=]>-XN2FWJXA&5W%'" M-)Q?
<GAKQ8NR?,+B6E#^0>.EWVA@#J&O;0D=L.M4C!VT1' MU%OWVVJ_5=&$+_'?NU#2T%K>_?99<_(/KD-
MBSW49Q]IOQS><(?FXBPFZF)EG&TGT!49CN>B*66D#S^WS_72K'C 49,/INRFN.:L6IKH
P&/12#1"\@A^=M#]'C=K*?FV"I&(ZE[8/&L\7] M>7JL@SO](4*1?Q)_*_|<3130QZ+'O"1Z-
$QA0\;L.J:A$38@DZP5R8Q47?+>869<'72TFYZ ^,$_G M"D% I-5PL&/">3R>R'V<<;!?
Y+HC,'Z#9GA]XLQO/2VEBJB#7'')JK%H;MH3 M*#+2 >/7IP5EXA3D#![[=:.R MY2B3\N-
M(U^P+]*/QL3)HASNIV.B1?S-TAJ(DTR;O0(429Q!ASV:@;8#_-@& M:W5C 8S],8FFM7]O-O[[H/2O;H-
^YX%YNM'BO_GTGK=1T=:=H:%.#G63/*>% M6U5%GX!+8Q=YI4K^ M3*05([TZW66043:KQ[U%>OT\I:[*>!3
M=XDV-0B5W Z!^YST!LA:0Y %@9(+>O#0UD>^||I$70M/(L?XF%DM8>"$A"*(
M=#GR)KB6FPDV<,#XZ0A$=PMSUO$(VIRD^+YDW2A%"L/O=S*?
@"RY@6HUY$]B!Z8VO5]^[*E7S3RD_P5DE]NFJDK MD+8@;(EQOV#;8^|?>A[JV*]HS9.[>/!61U
AZ.+J%C_)39Y_K(UM$K=,G=;O93L?M8J=$;?2/X(I6*T0%4#V]A^ MXV@4&@/C7C&>[AH3,# &VIUYT\]AYR&?
7AI&\,$T4W$6F *G&(-D\;,6R&#G MM:5R?!NTGW'3S@$V!&F0G)&'7;Y;M]D;MT;*\;!7Z*N5]VJZJ5CY&Q'WD#G@
M%I5\'-7#K35]S<-Q O&SNR DHN-]^(4;_1"2W7*ATG+NR@HW:36N\I/J>>W$ M(,EVW)(LER'(6@*-
R:WI.O4NGA^W46><[,*O'(ZI:"K'CAOMP>W10[?2%[M,FG: M0X;VD(FKAXP:MI@O2O>%%+I XV+JO.(?
N57]LET8P_DQWX(8KKR36P_ET]'5 MH'A>?K@XD8VR,NY>PY7*ZRN/;E]N^W?5XTKQI'W?XX|>>T^V,
<9:Z^LK>Y7; MRO"FP)4:M7'E[G1TZIS=%W-PY<+;I6?':QO]3J9QKEQ<-QZRO5LDXRL7WF[T M!%1/F9K4.)%?
+E"F:CSHF3'6FA?6>=]7&T=W$ZDOO_2N)'5X?5O-Y>#*A;%T3NI)F^*94>+I\FQ^.FU.06 MKFS6-
'%X,1:*)U)+K)3&1Y+-7\.5"V]_'@U;[9/VS7-#-FM/9:-Z=^1==)OI MQ6>J6D4Q3H>%0D/PS-
&PTN$?)/<:#J^%*X^>/;NF2IV3AIY)9_*C[6S2^&Z MJ2Q>64D]-L[3
['2\.KWI\]VD6M<6=UF=O'*^^*#6M$F9X_%\WQ#GU0?]7JW MC:\,=[3F-M.SAM*53C1EMXH)'V?Q.JZSD+'K+#:?/K?
5*_-F4G#ZMXKC2JU: M-_Y..VEAOITT42Q29,],%"S;[8>?8QQO, @R$N8SDW$]!8[_V3[>PB29
MA;2W0)F;EG_C_O#P,AQW'AH@% ML0A\DZ(]%L5,^UP@]\M89\,J?]1";H!-V0%:#:$6_IW" X0.?5T1NY$^ MU-$B
YZFEZHM,A ";5HW>W*S:=,A^#G-V=19=(4,TG$#%@\"L5,$C$#9MZ[M&S!;! MD/D$&-8J+S8=FO@0*@N^J8V
Z2/]G8)I)65Z[\"D60;^D,2VOP@RGHS:7B/_M,E\!V7N^X+#=Q-3#2T70)GCK(_TA>802I&S,TPD]I2F+
[.HI'3N'7'JS(456 M)S:!2D_A_3^%EPI7*F'H(?R*3JIHH.JX.X(O92[T#CV0D\|NL9-!F+3Q^F=,_M\L,_>H-
=Q@O'SXSCF7H;2;,%MPE@ 69#+MR)F^/8&([??>)>L(>C#[,2"?& M73FI=TWT!&?R/E'/;]+8Y*\XSNE9YO:A?S0-
H4YGRT=W)3JAQUT%9?,T8I-U4D" M37Z[>V\<"2R) \2?\9RY. ,D"7N+3?#$-/]SXZ)GDTW'(X+G,TW'01Q9EEG-
M5;N\W)>K(J-I M=$$?I/_Y5#N1E@VWIZ;^BYIN #:[.A9\H4_#[P:Z- MM9I%DVN>M8H/W*"GW>;.VT?
7TG5W:8,#K(\OY:76Q[S4^C0O35UVN#X/\X.G
M&KB&1)ARTYAO7M15M='K#\KCTU2C:=CE20ZX20$Q)Q^(W.O&";OM[B-C)G# M.?
G6\^:U_P3S^EJ[1B\M98I91+1<*348R.EA,<_G.6-H*A=>\0O=O=\,-?M(I]>;#R6I6.2DQ@!TD=^=)8#89-^8Y00 M/<
W'4[^-,>]\M?OG?LYI.GXE,G$;?%G>9?QL?";ZIE+6AZ^-88J6]@_985ECPYL^5&\0RW^Q#PP @V*RH+
OXOZC_>>_]QW/IF$C9(M5=#MJ:"A"/JJ%CK.M<=FL7C=Z*/;QW+KXG:4/1+& +ZU:Z%)H-R?[%F.65?=
MMF(:=+6UF6/+[B"=.CR3EV5(M=,D>$$#_O!L])XKM&I+Y7(OFRMR .1CVQLV
MG:,A[D$'ZJLDB*PH+_;PCD]__:'*:M)8<[V::])V2]78[:FQ2X32)Q79RH4^ M5L_*%V/NO-
A_?'K@1X_G1A<$%DF1R&2I.S7QF<#;5F&3H+!O_2!*I&FV>4#L MBO=V&R1"/8Q)]C!N 1 [X8JD\G3+-+
(;/K$O@V87W6:ORHEPE^R@E(B;E1)) M5%/^V)$F@]+^I5EL\IB%)@ZT6)THB6!+==6 M/Y2XG2:BFFB+
(F@WBHDNKP9.O9N]4ON5:Z=X4ACDTN,K/ HFC>?D233Q\$N> MLMWBOZ^/.]F0'WH'RHC2%^.R5.WXC$@YR$@?

E!'] M3<:<_+MP55)/YRV-KHX,6:KW$#,.T#2=?&J'B")4'&"*URI MJ?:;X]=@_A;8_#_Q@]X=3N>378 S\I^_)=
(2@VR55A!^E_7)K$_)$"UD>2A? M1)W3_O#H23T;'(__^'=9^6 $!2R0JS-$>, 3,B8;FV;_ 5|M&]F*YVC9R!]!
MNGN#6[^K704Z%!;0R\T[0@2/EY6;]&FS5>RCFYQJ]KJRV-'P?'.64^"?L%@K M-A5%;D]U?
>!V/,.8,"/D$*%&)G1/WTV&/"^*O. *A,>@:ZO,E(]'G_X829M4
M@",H^HP"3!"7K7?;]2OMNMC(7VGRZ*1R=WU[E\/B4Y#>'6[\V1,(4(/GT078 M#9&O.Y\1PRO.F]N0V'P;[&^)33X"^.-
&TU9*LG#)(?/F..>D2QWN 3@F?;"@ M+46D)I63B9.3_FE?,AW7]DB"1P7#H=Y3S8!.+BW3I_IWY&?MTAU7!\^-7E%X
MEEKY4EEXJJA$?F9%AV TA?\5)BI.47V?8+$][7A[0O.A4(,J^/AP53 MO6V^], ^?[TLG1KN3:7"@$0D'TA(\?
E^F+E""OI*NGCUVJM7;;G?4R,L/-T]9 MWKU3CG/;T-6S!_*;JGI2)-Y2W'14W69&JN$19@HFPW9)+2RQF(V-,\?#^LY
M&(4874>&JO53-:UG&=+YY[9JV3TF^M-Q["O6K*X)*%[(W?6MDZ/2I)GIO4C%\]2=-%$K9Z.Q#;PH ML1E19F5I,>J
>Z9]O2QC#_V5XN\'00I_AV!6=S3M1XSUL&T;F%6G=Z$YRLM M$\%#DM&'W[$"A[9*S7SA(GUWTM#;]>ZP8,OZ??
YZ&QS*'PCS',KXS,EL;S2S M7Y!(F,'MV0B].^8XRC(ZJ6=<9T\1:>FYY]ANLZZ[>/)Q"0X6.%E!D!,/ 3[+
MFD<65BT[!1VHR+5L)V>VRZJI^N=8X"@XK5Y?/Z)112R>%#1=+4O5L]%-[JN< M^.73TZ__].M"W\J<)]QGG
VK8M|NUHHZ[UG=EUN^7!A:6*+X=LLD[R2#NOV#UP3: M;@?X\D]O1K31K5(^<*G35D
MZ53NWUU*O4HCAZ6AM.C0(XMSW Q?>@F4 VC=KLVZF+$S^L)ZG!H6|| "1N^*%%JS C_?D80H$"MB_4J[+%8<|?
&LG^KV2JG,B_IL\F"+B4*&%;C% M#H-OF.TEU+,]F?@L21?1V$0VX. 94O(-L19#MATG]9=@02K>H,)#&
MXGT7&^\0Y,\'_9EK. I;MJC-.MK+V MBLF4U0DC+]7@P80D%((-*V9D&9[IJO8D_#XU!BT)],&);1E8!6Q[6F!<6V";
MSX*A*+!$'?8]S=)L3QTOP!-@Z[F]P%H'_=)1#?QB>."C M)G*YB]K]^9%0O/4N7B[.1K?$DN%6\I/N;I*:W5RA?
%FJ!>%E7IN),W0#E-+P.A3]U8 M/'G#P"*9A5\9'.%XBY0--$(&89F(L61[OJSKV-; L&D@[#"JO"J$=SM3/TF&U*
(E^*Z)5=3+Z5'[K1_?MX]?I!R_'GSBP<: M/FLTV&0>]E@C6RQXJ&Y=^8)HBL\K7PPM/7W*BGUY5-4?[>(3RISEM*
(EG^5S M. [WSY M5"EFL9&XE!%75_MV3Y:M#\9WY;N7E[OTZ;"?S[?4TS,]>\-7B%*V!,;SF27L
MS%GC^M)G[$=50NFZ 07-3T1\]$ *=B:?T=F2K*!]8/2^*W;"SWLJUIR1"=2& M
UJP@#:61VMT@TWYXJQ7EZ7<42[=?RH/*M;X[OK1ZFX^AWG=+BP9U:5VL58M MZ2,23W-O=+0B>%IO2/B+9_
FTVG>[66[(MB++_E'UYKT6XW!S967 M$H7FXR #8.<.LHO]%UX++(P%%50I%PR,U<_DK[@)OHB-I&16O-
_&G"#".Y;' M9KKU=S^2/1\&PD3\TDL#?2+4?'\^BJMHOONB!^0!#%%R+#I]"(2/A&6:"%LS,\' M)U9(3Q#X:K554,[E?
J5ZTT\)]HN<;7:WD9[@1U)>92C\7F$+F5:^+MSDQ4GQ M_,S-#/L7SZ?\V5;J%?A7"19AI"#,,6FA+BS(,N?<+9C/B!-
%,_1.AR37XDM> MN6"H_HK:S\.7%X?)Y=@+/A5,E$G-4X&LO'5_ME%1&&*Y!*_D4NDFYKA$1_=
MW''6\ERX9OZK>8GJP:+LZ+LQ"'GE'X>Y])>NV!7R/,,.,H]=P]0>T7._D;_S M>H(R<#H/RG6,(K=(
((N++.+$ZM+)G:B@OI\9:CF4ODY/*[;O:NB:?0'2$\- MKK764]<;XT-,4CA6R7[-
&/HVW,0HW,1FIU/J7QJWQT^<<-7NB>W>U7UWT-TF MW%KER:4L5XH%3A_7,_;SXV6Z=4S@QF5$EI,7BP1>%?
8P(1\Y^O,[7/2CF>BK M>=*;)H:ZV3\UST[U?,,K/;8+N?'#:89Q[=AS[B!OWV2\&[XVK5,P(WG$(@BXM.
MS&75<1NJCMT9]^3WFVRT]=&__X4?X7V:@50;%[WW_IE75D3\DK#DG?NUF<+U M^7'O@C0K6P]2TK$U/=T&^?
E_T=W,.DRE-,NP[,.P&C^RS>#5 BG,[Z)4RT9J
M/Z5VX,6'JC%6)TZP;25[,&VT<3@MZ!=)DCQW(*9_,9'?,7P6@#M0GU,1$ 9] M %(&ZKB'P6WA9[8/C^!#R]$Q3QS:R%
Q/^"GSSV78,JUAH<"?T (%OX,-B;Q M!TIZ4[A[53P@1IH,J QHD2"Z_E.OY)<9%Q_;!W52UP.G$*XIPP;^E)+55:AY
M'O;+0*H2>=4\-?I9.9OA.5[XPW^X.AWDHHK-6D;,GA;1$WK*RO745>[I&F0P
M]_K*LORB.IG^TQW:KC.]G5FQ,/7\F_OM(1.RTYY=X;7"U]="LTM>(1SXV;
MPN*5@GM:':33;JX!^&UUL]K)XP.ZABL7UOE<*6?N+J\0S]6$V\O+?+M5Y1W\ M3/'UE9KC*#?-
LG=;5#V[=SV0+H[&A5Q37-S12+F>Y"M\VRB>:Z.3;,GH/S;N MNW#EPCJ-4N<)92=2MY]2FLUR_WG<.\E?
PY4+ZSPVJX52*EVP&I7SVY/;L_MK M+7^*GQFN,_;*R'FG8/1,JR)2IH+K*IP39"(;5RP^NT<&:$I!GX=6,U5J%KB[
MW/T1=U[L"7E5*E9>KN%P1G#F#>'!KNVAC;%7I#;GOZVY-P:LT[*,-GQY:;F(
MX46&Z'/\/PP^ME/XW&:F!S>#3^[__MW:=KJ3#78^KQ"%F)_7@[O^Y-I9T;3% M##VX'"=N;"94)2N8.+B,:7-
_@B;&Q10!]GVFWZQ6]WMS5(.%WQDSA%IEU#I M+'W,:DT4PBLP+B^!SF=YC4L5-
;SZX$YWE.G>*^5TDT.5\QOYN'2CH4DW*<[V MI1KEN9UI3^YO\F[QZ=FS='3T=%HZPLD_K)*1WDU4?*.TPNIT=&V:
[X9L7#;! M6-B'/,V$@SOQE8-I2BCC(G7@NQE#NB2.^Y!8WS:I$."&),H+'"]%^)!@E7#C M_&-
[*GRIFILM]]\O(I=.CK7Q:5Y6BZGB8T5]S%C%T?5.MBPX0?GL6$F7N:+<
MRJ&J.);O]&X7U.'LP1*Z9_V,32H9OT(TX9TWB+#KW/O>(&,Y#KL3NNABHF" MYXROLT^EGI37^[?7HT?
QZ.1QA!Z_4*S_O2 ,^1%LQ4\97QXROK=K+9=[ZG*# MYZM&9E2RNN5SD*VBDEXN64,I-?(?S>B# 6KK?C)C&
F;57$/+9M08'CU-"%3 MU7HZ&OF2%4OI0 @C$MD+8SB@;.EPV.LOOM\+=!-XC&7B'&8_$7"$3 ^1WXM'
MI7HA!ZM#/J&"BC"[?.:7^[9_&V"1\M,Z/_#.;<$1O0],V+DXS1F#8JU6E"\K ME=Z-A+)YZ=-.X?
^#R@^NRF(K@/Y(']>/64:\DOGW;U?@'%;?3LU(W;NUP_9>FEX8,W MUJHR0;$B95DYLU@>_SI9B53&1ELYA;TH;
96@6LN6L1S 7HF_F;5>,".2)WW M.T/N,DFF^+3A/9=.QMS)9;K)&WFD/*B;($FA]=C,MB?.D,NC_/!!S^J3=I]D
M.F3X#)O.)"/(L |HMH43V:@-[R^*7LVN%Q_4X\'%_290W.2/ZUQ**1UQ-;$N M3(ZK=5-JD:8<0D9A9?&-
XNKO2)TZ27D)1((37 0?F9&J"0?VPW1T$Y17G00; M084CVACVY8#MBP9.>&DM_(Z8Q950Q2*-"/#W6#*](Y.<:4$-
>>>T$"TIJ1I) MSLN89C5]IN^.RN"23SA&5-NPX.@9X&_Q32$>WM6R7=^><;:;_.HM?*8O6*]& M3Y_\1J>?,=I(@Y]-
"3,BE:*%('4=MTWU;">B87H@7E6>'W.-5/]!4QN38E$SB'LIR0N-E0*>KA$NK9X0U(@^G&NGV$/FJEQ%3TWGLK<
MQ8GVG#G)GF\EUX^8W*^R%6=%KE^(]WQ4Y+4S#-[.;JZEN\^%AOQP_' E9C(% MSEK>TG,,=@"22$PK'M9M'Z?
JF+(+> M2EH_D&Y9KS,X?!^WSQ/XL-5]]SSFM]D)$6$37VUQO-8C*$*88#35U7HI8 "U MC8O+_&NPRPAN@O]Q T-
@E3%IRZFNZDG""<'!2XD^!;>3;C;+#[6 /S2%3C M:J&Y!T2>=\!$H0P4[KBX&Y-GM/WV:
<#CC]^/P2X=6"_6OGQ6AXUU2%,=C#&$ M& .I(^3,V89P\F+)9_D:F(6;!(1"RW?!P?X=4.->"Q$L+S\""EP"5Q,RQ##U
MVSB%+CPLS99\;5], 2HXR*U(>9L/GQ!7K4QXGIHM/1[0'I45=,>:]B!Y0S'" M[^Y:I
3=LC&P6<;ID44&)\F;*I<3.60T#Z28Z1H30)4+/.H"HM#@[7,JH/8W MOPZLCQ!M!!GF'(GZM(Z[1 7%[E,
!N<8IO!V6P]6316_E16_5'K5^$$=3E\@ M%J.=FP*:+&U)GA]AD3H0;A[C[0@M4?'DJ(K'_>G-ZTGO7$RNN\/V]K3\6D!
M[%I1/%BBW0%)&ABGP#BK.[. AXBD)":[46=])F=MPLMBZ.B<0?,6/]+J8RJ3 3S!2=8/($'+Z M(.3Z9JH+N\%+Q
=]SQJ;H<.A8QF&-2:"E9P;3,5_GK^L-48WOYJ;_(F 7E0, MY,QV98::J1@(Q$8NA-H;N>J:U3L>/:O<>;?
Q_#CLR\7FA%A88CK+II>%[A9: M)UO1.9!O-SE7U]+C?$6WLA]C#<>+$-GZMB2M$X)R CF:+CYG"D>%2YX3+$'O
MET37N:Q^(=4E7KRIGG!;X]5!OV8U1X_7#Y?"L4$\OK*2994E?306\1;:O*^" MJ/X2&7^-3/Z56\
<'#9LH3.9(X]*J'\>=1UZ_J'I'^?1MHZBK)UVZE^E3N5)ZD*J0[-*&DV(RRI#ET5>=,>KGY,>XJN M-1=D?
Q%EQ9;NMM4R.8V<(P1[0F!FXEY ^1Y>N3./S.KDPGRVO,MQOZ)?V];M M7=KUSKZ:$A$7,D?&<-!_>M
J#=6[SI^/3B8/:5SMD^%$-AL#*H.4A ![C \E M!L"4PG!B D"%F/;UFS4EP?JI)%H/M3W<#W$%"#H-K!PL#:J0Y.S%?-
GFW44% M795NTT5=4)[/>Q(_L4O7F\J7C=_?3U2/:7F!/_1/ \5$'3KH,/PENB[\UF!) M. 5=\U/7P^(*DOJO>JX5?N#G_9-
/YLH#(G,#@VL6ZS%<.UQ8" -_FU^>;9CF M#[+B>Y,:(ZGVD5=B/V4'5+40D.'?*?SH0[^^
KNN/JQK"$I/R(O#2]668QF> MBS9=S[#42>K?N7H5;Z1.Y;MC)^4#3J"HH:BAJ*&H21!JR#!3\N^;A\[\0%U^_M^,P
F/3V=)YN\+U?._?6MT$5W5M?XX*YQ2_7.*DW^ZEZQQ4J>X@JSEQ96*?0 M56-:P!.R"6@D&%G_^T/\XXOHD#
('G$S1L1HZ\J$'+!?1_6]##]@\=G:#4[8Y MMGHI^*,B*ZCI[73(4F=/5CXAP.(X3W85 \JWZ#^
OL*)G,K]LX0;UM;E=>U# M]:(MJ7WVA5^/+?L='V,847FCV?=][S3MI8J/?2$OMOO*L7OQ..DN[U1-Q,3J
M4/:S[WS7P]2UL7 04/JF]/TQ?5^HCAN=!3+G@UU.V8V3[/G1K2D5^T^B^%+L
M&$=\\1R/BEETE5'*II2=%,HF;EC?"?NVHWHYQ9\_/+S4CNYE]^@-\D>E[,@; MN:>X']1&*/YCM7$ ZHZ!]D-'_
J=+P*P9?_][^_:+&DL*(#\:P4Y,@?,'R@T M?(W'3]'R]1X"S7GEAWSDLPP%Z8<@Q:*

(\641XPLC'[S!84N!^3U@AA&VUR", MS=[>N$F\BL]NTR8O!0(%PAX!@0H'2A(4"!0(5#A0DJ! H$#8@G"8]:H]_(^F M(=3I;-/6(N9?M-^D<""DYUKO;B__=".E.JMD0\ZZ>UF#ZN/MR\C0N%KOPG'$ MVSM+'6TQE;6N->_.LLKU^/R> [T]:>GDB%4Y>A.)U4\&-7>4,M[08($;'^HY1 M\Y^KDO-.U)E]CGCO>^:IYYFI%)>ZDM66UJAF2N.O==E? FAK\=M1T"=DZ+3%U M>6E+>B-U6>NV!A=2I3G. =GRN!J"\T? +FU"1XEWWYH[K440?X^65XN0SLAY M9+ <[3P_&Z5U_TG5N)M;PMG%:Z0(Y"T#.:4K+"[2\X=#C3I.R^)6H:#R14"#M M,ZMPW]>.Y7J_UF_4KB<./Q;NQT#: (A[RN32Q99/#D%];;3;&VQ7!8(^,&]?!:O;L?EAGHROG/&Q?E\^*XF=F,AKP7 MI+LWVO",4"?Y2OXFI5P-*
B[7CT[30Z[RTAL_;TH8K19$S[YM%@ZN5:V7)E&OG
*M>NH:2!2T87%#VO"/(M1]%K";U7R+=X5)YK)WE6NDFH/2T25GJ'*I"Z0KX+37 MGTZW/UW-_0S=;E?-*
'=GIDRNN>9-NW)[7]9Y1GC2.Q!S0,:BYPH;4W%TSXJCF MZ^""@-"2R]3XAX%H3)RB]W(Y:=SSGE1QM]BU
JCZ9/)T<7O]_'+)R:-LN6&= MIV\-.=?,4N\P58=?4;_=.FF9XZNS$><]NY.C0LD:M29?&R;Z?86X?9Q]&F:R
MS7%1N!8;M5/A\;KW@NF6Q[VSJ7N8ZLC?%<6;U9+%GNK(U\?=N_[MO=_J'"M MOY7K*
CV#ELQ3;J::\S>I>;NZLWM_Q0U.4!X@VD,5 WZ,X2=1%3 M11GH^=CR[+#UM5[O-
*IXFRAF7O[U\NK@NGMW==K>K)^<;J4FK>7M^4=1S_$GI M]KPYD*_&39ZC3N*?IQ5'2/7A,C?)U8=2LR@\9XIGXJ*
*D%ZQM>8G39\/'AC-Y MDHI>+U,5I:9Z?9ZYQD3*X]:?U$W\XU7@3PG9S6K SNA*NY"Z1Y/^B24)>J,A*
*M=9I/74R\.$6"DNY/UW<_1;K;57>O+T^ZJ/=4>>]?7&9O5:E\6BK;.4S*H._* MU%=,5> W2!Q$9SBFYCKMI.T;KENL**
(WKQJ4@9&\OMJL"=^2;22M7/<_VS\WC M9Y<[&I3Z:1#0/%:!T]17_..UXAGU2N?
*ZR0/WW#KKR]I9KFB]M(^\HT\/)XM) M*VY=9IS!=;M1XTYNSNH#=\A?="\(W8)6+%-?,564ORN*-ZLH:X.!9UYW-9,[*
*M?W3.G>?2RS'2QIB>05$6*353W?E[U+Q=W5FYM\I'K>JC4CP_FXC=R]Y]/5TF MU VZ9,3;6H>K*
MM=H/IR>-4^WLGM NZ+\232G^ZBRV MQYB219SU0QW%5/]]@\2QB R(O&N<?F4Z=]>[O=@CI;ZP[R
*MCG[%]^6LF1V?CC)56;QN\B+1@--IZBG^X4IQA'SEEU*UYO4S^?YM0W+O4.JL M^^+$J%U\2BWF4VG-*
*$%3OLE'CA.<;X[[6=<9=3+B@%F>HJYAJRM\6QIO5E27> M4*NUATZ!4[NWES6^V)=JCV-,T**
KRPIM/$'5Y^^1\W85Z)3>2M>/AV=Z<3 0 M3IT+TS2E,I'76('>5%5>HLF9:LM.$0,IG/K=']X,O:8G]2?
%X=7=>=X8B=; MG/H-1%RR'6N$+GB.>QJBI^.V*=]>MX&():PM2YEU:\M[0;U[HQI':;7<;CQ5 M[..;:R[5+-*
*YGY9Y5OC&VE5NLIC.WPU'_LE*LC.H#:]@JZ=V'"*924(VSU&-, M]>#/B=G-ZL&9\U/9E1[K&I?*
**V*7>T_GP19H0ZL7U=91ZJ=K[.>K=KMK])-Z^ M"]\YO\?4.T:Q=K#9]+Q:>92-CWW/HZ+KYHG$M9]BYQ@1-*
*M.DTI6>J M8'^/GK>K7Y_KK'4=M>O6*BP0IN_I+F"\3!LGKKIUZD9 V/_[7_@1WJ<92+4Q/?:" MAT\/6?*
R2@!HY[M<:B>[-<<:"-#M&@Z.45R+;(#__+[J;F2<"@;+!_I!9)O! MJP7"5%V4:ME(I:?*
4#KSX4#7&ZL0)MJUD#Z:JQ^%4Q@/JE.XBZ@]^)\8T?%5IF=C5>4_]4I^*0_BWX&+X&0W_/>,_0<'
M'_WQ;QW+#,;J,'FL^8 ^,J5D=15JGH?],I#.-.1 8I3H'>TF@]" MHU7@B^ER?Y ZMD^RG7Q&[H&A@T!#&
*<)37=M#&T,D+\P0V9I[8X"DEF6TX\O_'0H?G_V$N -Q= L/__MWRT;45*7F+&%!K&=-*
*R&F9//Z]Y162L6G\ZNVX_5UD.QC%-& ML/]E_LK"G6-Y9WU>;)S7K*N&T.TTG^O736'QF6E/K13*-R\Y3KVQ2O?-FT+I*
*MI7K=%!>O;'9S#U)QXZ24\H2;AXM)>=!M2HM7JGFMW6[HGE+,*V4U?30P*
MA8$U;J87K[S,7+YXH^95N9^_;EV=:/]^.+DFNGICM8NMAP'H">'@OFD'NXNRSE=DA>I>?E515?EK(ZJ8:#F!Q*
*P'4((U_H M*B%7F':7%5@4?,HJGVZGNY0',UU*&##L-?HDO%"PE6B34, M0MV=:);JYUKA!*
*[Y:23Z9TSXC)F5PS:*Z[]KAPD*P^#O_T*HE3\E(!W+F/1,V MHK9%GF_!,SM G2'4PK]3V#H^]'7U,<#I0QTY;[I71 .*&*
(2B1B>(B:AB.$.%(J9-6)F]4A1I'#9;-QS!"A M2UA.-
/]GB4R[=>UF.G7U[/3UZ^'@F1=YH]S+-4G#E33/L]G,>TD.^Z"P36.+ MQ&/SQ[]URU4-)O"S$= R(4BI4K?G2EW<
C$!^_OI,G")S,N)E?/[Z\M;JS^9 MN'TM-;!&QEVN26KDE2S/"M)>Z7&O!1R&W"%3&@P]'&,LX5P+Y+A4S:-JWOZI
*M>5BL_=X?N=8PVV"@PH$"G%M\UN#2W #_M43(>4=ZH?#BWBH-]>*D8CR4G^JE MQ^LFJ8B4)%80LPLR[J^?H-*
CY&MT4HLR1;JBFAJAJMW;5;IOI^]MVZ"5O[_NJ M%[XA.9=(R.'1[W:B)2D."PSUMT>X\+5!JE-
*MH=@"KT6!]%088B_##(2PSX"3 M"2^M$:F."5-WX*4YAU'A&8YGN/,OL^Q(&#:>"=8>OCU+O/93"K.9B(F_MX*
MCHQ2L,Z4_ISR:>CPE/S7;$RDCJ8T6E91[C\5[X?.;?]X-UX: OPJ2:V8"VR$ M[#PE:O(?SG+Z,S
*:H6"I7FRBY!]OQCD>IKQ54ETS-QJ@O M(__DCDOQ/P\M-<2[%*U[:;WV#P]ZWM'B'MJ#-0+K=*_N%3&(+\XCE641=*
*<= M8YD!X9A$:2=IIH$*Q-1ZB.2[^5ECKZC[("$"I/**437+F2; X9TM),&Y6.V# M7:Z-*
*0*2EB7%CUS"U1_3<;^3OO)Z@#)S.@_+I$N7EIQIAX$JG$9 &V "@I?C5*
M]L5G7)NWX/4@Q'+$]2<79KZ;X9#WV.#/FYW.LY7[XU\^([&\M'C8$6&Q;K")
*M4;")L*12_]*X/7[BA*MV3VSWKNZ[@T^S5:Q@:WHEZ65B5I1^[>2QDS7<_LW+*
M50X'QQ163"^ZBL@9A4G1Q0/IF0%QO3,@[X$(7^5B8@#C;;-8J@^1AK,^C F< M+HDC\L]E?VX36_?
59O^HR)4;YYW6=:I2\C1I!-@2E30K2YD-$SF_E,AY_K(U MM$K=,G=;O93L?M8J=$:?GGP2]CJXM-*
*UT72>CAM"_UEXO+W*UYS+ZS_^E7B. ME;/\VT3NZ,]?(O'MI5#GEF5%XZWXV@;6HL#L4[N("9TM#,*
*7OH:#,>Z>!9^W MA59I!+"<,FZ#[>7\W16"S55A;T'3@(72?T(:Q<*DI5PH)T[_Y$@Z'\E:I?Z4 MR^'98XM'QB^"[Z7*
M$F6143#QGIN!;+DL]7!4\$(EB%/6Q[]H3D<'P"'M5P M?>1+W!*$CP!!+A:>M>[6_'[G8V6Y6PD M57W-*
A0(UK^6@)P^V4!QA.W"Q'("KG9_=WI\>&N>9INE2YWD8Y +<
*MXH]J3D"99L)*D]E.&7^KVZTKB8D\MK+VDHD)T42^2)XZ#G*P>-UQ@4QS$;\"*
*M7)'SNIZ#C8IE=KON.!Z66KY*A4^*-?;MR) A30&OS/X(&W>\X@;/W4D M]2K";;5@%|>X*%QBYA:7=?*AE9N,'(*
M.N"D14S!\>QCB_FM&9:#=84A?G2$:;, ^S_Z%2V'7IK7O(%NN[&QZ@REO,/%_MF2<+FMMH]R\;72Y5?
U3%WHOVD!UWL6>!9V5%7L2T:Q&A>VP1FY8PYTQ]]70T(FLBO(UL5\4^7Z3U3,NPNCALPPRFK88.
MF'I/=XAX)\ZNL6X8N&![YCIU7GE/=3@0=)L\7R,-LAA2F($]NM:K P:1GD.X M-
AO>1NX(O,]N3[?;S).GVBXNT.SXKC1F6VKAHLH2S['O5RTWLZ+,";R6:6H2 M6+E2-J,TLUQ;:2(Y+61EL2-
*V.JVY.N>2BP9"6355GQ,<;)-XCH/A;[9S@(2) MHSM6YSBX:4-5Q+/0UQQXP!H<&NKD4#?)$UI8+5V ;M"P3%JF$**
*['.1[HEQB4 MON4A'/BJI(^>]W32&>2)5JK\XS S#!!++L0!)MUC';"BX88%>Q*O M"!D.&O=P#3<1,;"60+H8.*
PTM&P_Q@-?XOX0.=/$+2VJ_A?PXF,@H#TG4N= MA\)T9K(&3IP"TLC)XW\A\N34%8&P]-W :LYA/,?*
O[$%@Y$.&!0T!S@/ #>S9 M'NL.!F(;#@H M&\%8>$PP1G3V 2L,'1$WY\ \?H<_ 9&WXXF++2Z\O'Z/4G*
M@)CI1QA7P<>>$WYHXTY[^)0AKP)VLV'UA)#6CH$5>WLLPGR)>,G;.DF>8'(: M\31A\KVRX&
(=^31>T[NFWH%+X, LP%EN6,,9 Q3A9,4M4IRMVY>J7IP&WRD12-S:Y .6]"H%:CH>HO!Z\-2-]!T7?X
MX@IKE%BO(=+J))>[@F> IH.M:*!#7'[&5O'SE'XW<",%#PPU,;4&>:' >99 M'+"?X(O&/5WKA8_$[6V*
X@=J'S$H1+T/:U#9!G['1D9M69[+=/SD?#2:P@.6 M X8VNUEC.GHMI^TV)F M/U]^96C+-
*]KR+:Z6;QL_/+&5"6<=7@C+J%B]),(#JU^:C4#R,X;E.(@P-)9J MEDTDY5C%;@(7RVY8P@A_!"*W[8&0"*
[_"HL>V)U@"3!U8AH6)31\1JQ;GCK"^ MH\N_8(!4!\1G-1F<@5W&;.]0+#X,BJ0/[I'3(LT_B7]S-IPW2LS/+"$ Y>: M-*
*C<)@(A&6'\KS+V-BM0Y8SU(]@J>W0[[&X$4O*B7KMA PX7U@,:F/@B@R\A*"[&T[/*
*M@:5BZIP%XS7=UKP!"&5XL..KD9%CWS_D\$E*OH%%Z@[!.YQT>(^/7KL;G.OD M;)O')GF$.NM#9$' MP2[;"*O!.L[+*
*(R=_<)AC6O,=+Z1-7KA'XDB!BT=V*J%MJ^]'S MW5: S1XR<0YE0"%SM VHTS "#IC3*5,9$]Q1C.FI(RS-*
*/,Q6*T$@8*B("NG# MY!5QD>=BL@RHICVE%-@T(3%?[8F0K$?\QJ3#HHEPB03.8IL184+H9N9Z">G' MF2K-&/R6';*
HD$3;(?@'/@5=5O6=B[[?%'NXPU:0,RX!RB"^8,"9K^UKH2&V ME!0C$FB./B+2CZ !D^O ".'G^UY%@]^!.65HLO/
MO%$H\)_DE6E#'4"HOBPHS^C=E2="E5"7\^9+X\)+LO@[_Z.?O&M+;RJ/R $*
M!FM]IP(ALU!!\/_^DY65[#^O2QM>E1EL.I7W)JI?1)2>F5]Y(DLS/)ID3
M"PLND#$@*$U)Y1.WA0MH"!@$@AKFYDBG'DN%2Z4:-XFFB.L-^+8 %B5+=!<*
*MB!E(Z872RQOTDO_8ZT*IAU+/&]13LSHN&0C0GH6]_"H/2C24:-X@FF *)1-Q M)E-JH=3R!K52SA9)IQ2- MPKU-)B*

PD>S|+:>?+8DWMBT2$2,H]#.I.JFY;"1&C2S?#TOBBUDR3"P:2)PP MAMY'\!^0KG|%0&X^HK,DL8U](Q4IR#&H?
NZ,ZI&H'B)YS23=8@S2@9S6 M028[-CYU'-=5#3H8>^*WFPAL#
MR|1WF/#X%)I,'^_|Q8;+)ND/L*8:+-5E3@SL'_'#C;GI*JO!*G_GJG|Q7?^2 M P:+Y+?7#0
:6[9)R)B!5P>W$4)W757KDR$7D@T1(4B"QOYCW,DP"*,' MDIG1U &R5=BE U1LV4&|7B7*D>>2O]@*N1G@N -
>HZ?L#O2T9@-:DH"*0Z7 MX_0*DDF!"|3V(_4O2U/_:.K?SJ;^+4BO(((/(;*A2UI+#'3-ME+A
M!=,2MB#SFBAB[9%*.I%90[DB++I/P<1B8$E3]6D[(1&0B$X^KAX^ (P4<; MRY#2!Y!
<)ASV!AY$BN4=3LA2NSC_CJ3RD&PUD@2$11E)00+>ZOJ+F!??TWW@
MKE6PB9%ND]P=?:!VI^EI)#/=7Z(/!3@1,!C]1"^5Y Q&Y"IHD]H+@@T+<+_S M6PIT;:RGNLA N!J-U$ D0Q7#N
F:FH3*_Y(#KCH%%!O.@^U8&DGV#IIQ0X MM'4'SO(VG,(F_@76X#FN/TH6RWN2OF.V_9YTMG|,D',?1'W.,((L?
@!@2X_0 M&LGQ|C|"^&FN#? %Z@GNQ,@(,.Z3$7*CIH'CM1Z#O8%EJK=?U5;ZI@*#YUD% MC?
H<%U>DJFWT*HG>OUMM6|-IP0&F!0P1@F.;"9",$>,$YZ._@1D]8S7%@@<2 MEH#7&'XS$5(@3#
(]@WT.>R2#E&1XDC1(G[A(-9=_X >G^:R9'M[^ %<7!UGZ MA#KU >!MA,(QNP2#09E<-
,/*3|NTQD%^*O'A^^FH0>X4_G3&T2SA>@/CPO-' M_Y+YO0RV[CI@8?G:02BY0OW)QQ< !-
[7!4&&BR54W$<%)X'U].'<#4!QI+AF M*;/BG.(1ZGJ@B(2B) IN7U9$UIL49GN3Q)U@T'(@7CY/|-$:BN#.N2?.O2?R
M3#;"*3YCSFBGA:+,0T9$.RY1T7!QR)N|%'2]1)BCND2HVCB%>I;R2VAC1GM+ MEA[JM.1!;S%70-IO??_JI3
MY;JYZR..PASCO,LR,]-J24=1(+OY|QE>|1@T&YF>K5.NPO5-"*.3X!4.YKX* MEW19!MEPREH#0CE$. W]G$QG
J0QV)JE_%Y]Z/YP-J= M=S%N@929@_;O:|9UXE7WYW4QQ46O^K2A8@+|TK-=U^>Z)O@Q0=_H"VJ%@UKZ
M:9^)N2A))#8R7RB-?6 KQQNFD/ET@<&.#567T@>9+!U$G,@1T0>R1#&33,QP M(L5,(C$#RY,I:I*
(&@$T98J9)&*&BK/$8H8[X"EJ$HD:*LZ2BADJSA*+&:J= M)18UU-A,*&8R!QQ/,9-$S/ 'BD QLT;,?')R|(>^S"V"
==@+/CK-S1"]WW) MON- T2P#?_B_/WCNCR]"*,T=*.)69Y%G/A6J72':_D;D)RC@X-APC'LK'@I[
M7PXF#SS+MD^%S2X(FZ6D|%G$+_Z,C1/>-SU_)DU|9/5M.M4EH7#ZR*-$>><' M|LY'#F#*._O%.U-U5OBJ-
LL+L+3=4L<*.(/&CDV._&@5Y"-W4?*P_XL)A]93 M>X3:(SMFCR3$^?'=TV*??!|X?S,F2;)VM6+GR<>W[?:,?
$1*/E3Z?)%|]3Z M;E=TV5T|TWT-=Y]HYGOPF$;45ICX<7OZ:# MS[H6'OY'TQ#J=+:|?Z)YXUYEP9 M)S9&3-
Q6MR!VR6&3.$#|&=^)DH2]O2.S M&'&NI>@387GKJ1D_DK>?_;T97 MR_*LR&7V*YLE;K4L:32P;3D06"Y)
TO,K"'(:5968C?6*6OL,VO|C%-# /M> M%M/[E9|5M[FSYS20B17]VX_6?-OD29P1MPT+(9&.#!J=69=UE(-;B%?)0G;
M_E%^Z.W9. F !"5P2N#KLU02 (DM9'(E8=L_.]:REGRO)&Q[FRE@"2[#J%LN M'B2, S-
[5(NQ+^XL32+"W@^&J$D)6S')N) MT]M+B7OWB3MYDOL3*5SI;(859"GV%*X]
(>E$%HBLAEM%B3TYBX8E=EY8)=/F MIV$)&I:@7ML=IEL:EJ $3@F?^?@HO0L'S&G@3(HVBZ)^_SWU>Q
MM4A66"E->^GL.K'38$%|7"&R(B>R625+N8)RQ5Z>%2LGO BL(,IL6H@W[R61 M>M./"T:L1@%RAO:C2G@(XK6-
4T" 04U77=TR&=5L,[F!!5MX(1_LB2."!B#V MS6'V)?LE(["<%+N>MB](3@#%TIC%%TE;2"ML5J2D34D[T5)[]=3Y-
)O)&PC%=?:M3=SN$Q0025S7MDT'3!('@+@-$D5F M!3[V8M;$|=3Z'<>)HY1MRY0WPRV)@U3_<#RE/;IY1M\]3//:>R
MK)R1:$SGVS&=O2>4&#N4T^C/GHC-!'A>:/QG#SV)-+$_V>1'@SF43BF=_EAY MFH1S?[\C+K0
9>]B+RNTK9T+S\1:))X|:-!8#(W%;*RX!0^*5GB9>H[WG%EH M-
&:3Q3$*GV&E^),N*5=MGU:VS55[<5:MGCG%"EF!5421%M?\K$#,RA0B"[3X MAH9?$NB&H>$7ZBZD;NW]9SH:?
J%TN@MT^A/D:1+.?1I^H>&7_0F_G-B6X^"6 M8!W=97Y?P!]_T? +[0WV@_N]B*+
(\E(Z1J_#CW7N_CA.W]M^8%E%8,4,#2-2 MGOCAIP//BEP:UV+1@,4/[0;&B_&.M:01B?B7O\2]^;4G[@<:=MA#-
]F*EDF< MO6.2X/+]%;NW:?N42B,47S0QA-C+VREQ[P%Q)U)>T[ML&V$_/JRQI:PC M"HBD.K=^7D2##H'>!
[JE@0I*X)3 ?V;4@4XYW\M0 IUR_K.FG%>&R%9=W$RX M^#Q$ID-'G>^^LVO/8PXTA3S9Y$<#"91.*9W^6'F:A'.?
Q@1H3&"G8@)5Y"#5 MUGIDY%\!C9!A#0?(=/?7LJ;._Y_I_/]2A@4KIC.L(M T[ETG=AHQB),K,GB^
ML6)I0[PS[A,9L]CQRH8:,@P<9L & M3EFU^P@"?;$W4###/OF%ON:/B:(&5;8MW1PZO/=M]C$UX@[S679K!"[L4&)
M>Y>).WF2>V6=45!X5N'B+X?>$X).9.1C16L@7J1N/SJR?U/-3Y");-4@UD"N M/=!-
W7%Q'M([:_M3B,>-.*QJ@R36"DKL+R'S--!=Y-B/%&!M/J/[TLV(?7Z&$- V")#L(4D" +DT'0|^*!H,&0?7.I?6V 'Y_)L*
(8^ZBQ?4%S FB6!D.^2-Q9160%&@JA MI+U_;Z.(Y?4S'M@9,T$[7,ATZC)S6LNQ??O*J[JG?
$L8'RP@|_&$2>Y06!E27:K8M6K#"B(-&:%1J82)Z# M@@8FJ".-.GSWG^EH8(+2Z2[0Z4^0ITDX]_<[,+$-
K8;&+K9M@+P_-#M(9LI MF9HU0,SO8 C@7_$. 4P>1&CXX]>&+^A@YGV@6QJ2H 1."?QGQAGHY/']BQVL
M*VDJ"=O^N34-L_KTP,#8$R*SUE/- M+F)P]?>>>!2V9KHDK0';>NV8I.TV#LFE<"R?B5^7VQ?,[P"9;|^<21I88K%M
M.%;)QCF(F/+#_O/#'I\/8I85,S0"\[X5LT.(_Y)M*\0XSY@&;_9$Z"7304&C M.#\VBD,SZ/>!;FETAA(X)? ?&'591RU!
(E64'Q=#H24B>UMUR58.) M5JBS\&(WUMKT'<7U7GO>?G+ Y4M^%3[#B+ID>C9H|(4&7ZAO M>H?IE@9?*(%3
J?!E_U546CPA09?]CKX0H8:'J&.92/FRK8P+"R3@3_#9L%! M&3^-Q>QT(YE]
[NJUNE>,8V5>8/FL2!/VDTNJM)W79V@ZRW*2Q&;74%]/27J7 M27J'Q;3(LVE9804E3C&=!-5CCSMY?
6DJH)2EH8IDARK>LPCVU>1/4%0B<1'* M34 F$4@)B5>B)&4?JR?.'&4LFV9\F:@)'&0HCQ%>6HW>(J>4WN>D;+^
M< ^EE/V((.UX>S,Z[IW&?O;$J4C':">;_&@\A](II=,?*T^3<.[O<>!E72E; M.\J+>Q)W>3=EZQ*Y03?
B&).RD@<"&H99#5!_4L]6@A+!*!_]:#[:BZA+ I+/ M*!O]:#;Z6$L='-,*2P+2YQ%')Z^C*WZ[:,M &WDV0P0O+,>)?%E(6
MOF#5@Z"MC_[]+_P(GZ092+4QE6C92^RFU R|^5(VQ.G&" M;2O9@VFSFL,IMXH$+]R!F/[%1'['\%D [D!]3D5
&)!ORD =]S"X+?S,]N$1 M?&@YNJM;P*7(4%U]A/#3YYY+,.5:PT,!I"OL9 !_!AN3@)/2F\+=*WH5(Q)$
M97HVZOSOC__4*_E7Y.L_%?!\,,L >J,8_4>="|-$?_]8QJS%6A\G#MT 9SI22 MU56H>1[VRT"Z3H+636!"]U DV)D[B?
4E8-!=8 -OJVI!G(,F/_^K0<'%%/O M(1LQ8]5A5*:--*!6!S&ZR;BD6:&#KRC#A SA'U9;?Q0N$C$$/]39-/9#"O(< L\6U%^
M'>"%P(L,PQH#P3)$#C* 80-IKD.>-5 ?X5K\!LO$Z,(/LCS;7^,AP=AV(/X% MC=G?7BA6_(,<1(JA#AUT&/X271=^:[
D3'J:3[*A4"4LKWJN%7[@\SOY9$XL M1(ZYX)I%.>S:X<)"&/C;7,W3*'P4XHCP4^3Y%CRS [@/H1;^3;2!0U^(C@%.
M'PJOR*$UO51M@6;DN6C30NLU<43N_.R9&OS\IL7)O1N%H9C9%F;X@S3%3#(Q M(QY([X:?
6]VQS3O!UPI9K:%&>5 H9A))&8^2J:AF$] ,4,50%V!354!4@H M9J@*D%3,4!4@J9BAGK/$8H8[X*DX2R9]J
J04,Q\E$-.,;,]GGD_\YUBYIN8 M63T[_TTM+7&50K,[,Y^ S%H#5M^&0>9C$+Q7H! M2%G\N5"VH%D&ALS__A#^
M^"KCI@^X]=:L+(7(FRDT*\"H3G(&RG[.0)'D#.Q*D]TU44=,V__(PDX>*?QB MK$Y,FU]
[46CLFZ=2@DH)*B56E!)Q(9^*B0^*#Y3=@DX!9|;9.RT9-
D(07[A5*TE9C8TFUEP3'LMI,;]9:FSNAK'Y/1@L$,,G@1*;6KG%LJ/8Y0?.
M7O=92N18_Q>H["ND^$5&=5$J0RHI=45NI*$H<%2T712(51504 M_4!1]!$0$BVXNYK8G, M|:P@B[0!SB?5]
3L;W5*2*?WMT/8K]C[L%(IEB3:74F*2:PDI%E>%]@= M"0GQ'!1-^!#!$|PN4T/V2-=BFT3TA@IV793(59>_Y
M#I*&V#6)LL";D+3=QBW*!!!E8IJ*LAV9,/<5'&=B1>_VY]%]VV>0."_(7$H< M33U8>^K!O%070:JW+0\W.T_&(;;>]%
[R-A^SO.-9+BNP:86GCO-OA_UVF5AX MCJ.!02HKJ:Q\-T5"SG)L)GX+('$,0V4EE97K3])('@5L,,LB>9N/)PTC&)%
MTS!^:!]&HOR\-(R-C7C\HE]@\S/47L^BG&9^#(.:D>E@NC;3FC 9^5>\$^D. MF"J"]\ U3OAF!U;G,EU#=1SX
$_'P_<.;1T^GS!M6P?:Q->Y/7VV.@8N\TS= MG3T&CZF/> M>0EN M%=M#*E"O8W7<,7Z5;4U4P]417(LQT4;
)JNXF:P!-68=5S+,O#M>,WS#T1/ MGCX/'OQNP;OJ4-VS8L;CJ],SOA*/DM[(W]0W4H[O5/,T-E5 MNX
9.KLJL:BAXBRAF,D>*'1P12(Q(QS0N16)1 S5 !*+&:H!)!8U5 -(*&:H M!I!4S% -(*&
(X0XR%#.)Q$SF@,JR1"*&GO])Q0P=79E4S/ '8H9B9HV8B66: MR/LAM)\P361OQH[1<71T'%U\
(Z8^,JR31PHYA_G%5/VDD=AZZN\8.U!A084% M%1946"1-6&0.LNMM4T<'6-
(!EKLVP/)]^WB7AZM0TW0W3%,Z72YQ]TG(EK'=+FM=SRBDB@)DHC.N:22Z =*HET><^D;W_M$573*)9URF8 I
MEULQX'=FRB6VWS?;X^%C)WDPVY*9J]_>WV8FVW=@;'Y@W,=$L+/SXCZ2B?$,
MO)W72E;77UYKJ=;)6@2QZ28AJD.AX:.D^B2[XC]>)\Q M:_4_6T1]V-!@)U0U*9UA,]E=FMFY03+?

>N)O+!@68E;&]TKSII)L7R29(NL M(L3HGZ.2+&$8CO&4VC]!]E'?BY\@R#[H,+$31)Y-L[P2XY&]3U)LZW45\4R6 MCML9L-N6?])<&85H!WC<>ST7:>I./7[[E$RQ"V#9UR@CGQ%83LI23SJ-,7Z- M? A0:8Z0"E@K8M_7,M,)F12I@J8#]8JH;E:^)S^'8 ?;8IP00)60144E))&?!)6F;3(D\EY8^5E'%7Q.R5 MH Q<)U10? NA'V6\FX;.LG(F].'L_I&3B6Y;$0@"QUIS2W)B]DX+;<)ANWK=" ML;Z#,=HI'<1(#7M-[+L0.(T? J8F,A5(!1@48%6!4@%$!1K,X=CB+@XJO/2301I%F&E>(O$Z02 M+3$X5F)$[OX)M&6I$0G@\]@%VI+TA@1L,YZNH4)68!51C+UN9#^$6.*:>JR, M65F(O;*#IBOLF8%- Z[L2$B7<9!"41OOV$*LTVD<%&!5@^TSK5(#M(5*I $M* MFL-&;H+WXV WNIXY6-$Z?Z%\:CH2]SH^E*3?D5@Q0S- L]H-(?:E[JDT MS8IF)>QQ5@+/BEP:]Z2AFMB>927PHK3?:0E_NRIPWQ9,WA6-W#6MB]"&;L)K MW4- 1'LX=@G\V0LP 'MQS& 2WMIDSST2,R+&,P D2BZ^R M$3-6'49ENL1Y8> ?'=L:,"ZIO7!PS04NOO@S,- T8>+C(_V+@'LT:#%4;GNI: MT_N'OO,#WQ!H2?@& 6[03;(H_R:,0F8(.[?:^ M8C7C ; E\ +'IH%=F,#<+ MU@IGP6JX'RC+F);+J(8-GTP88 1$%@];;GN:2Z[!&R<@8^$;#2YTX)K6!(!! MYCH16,B_F,[*&, (K()=B$"T!'IY0,WL3021\H\$VU2["JXFB$? D"0NHR_P* M4<"T/80_,:PQO/7)4VT7V<9DND,;C9#IH0.F#@L*WQHBUD0NG(R&H=J,.K | MD\ "OH KO"EXYP$ZI0G/MF'%X9[@&L=SR#=#^, ./\=T"A\ YH FF+:MPVHP M<%6FC69KP? =SS#P.0[>P%^8SNZ!'B!!H>H"D^:%Q88^ZX3B+&_V_KH MW__"CQ!DFH%4&Y^WO6![4XT2;S,X;3GNUQJ]N1'U @L(9(> %J29A12<(8(0 MV0;Y^7_1WS#J3XMDE.-.Q#3OYC(JQ@^"\ =J,^I" @#)25EH YLW;\M_,SVX1%\ M:#DZ1NJAC0S [@CAI\\]EV#*M88X^$!($_X,-B;Q!TIZ4[A[==J+$7M69> 4 MZ?SOC__4*_FE7GK\.ZAU]D U_HE&+8*/_OBW3DX4(.P\? N4X4R97OUW!6J> MA_TRD&Y%P.> -1S @S#_ZH$A40$!;4>O M:\^N8]#S$)E8WH- L=W20/+.C"8L(.&#A:U]D^(==QS_)' M.(8,-)!<6'*9E MIC35Z<%R+:V?:I&C?.X!X;NPQJ;; [10<3.X$CA6_6SG+##U8(3[_X,W3!3L> M.70=LO*!"FRGJP9JX8] :EH,!;FTC M> EP"#XHM9Z)[0QXO!J>+4P+ 0Q R. (#>>XA^%66V;7P>@8@68$(55-##'X9 MUKDT=4@0]X)\C0=_'I7\'R)IK>?J!V3XA8.6F#A36>L[(#2L6PT==!C^$ET7 M?FNP),R/FL_'\X(P8KX%4G#QY''M*WA!OT]K!B@!;/YW0!M1()$GH^5P@[H MG'"%(PK^)47OH'QMC ,*'XCHX4^\A- 06EG)9_!CM..9AGXP__](?SQ52&4 MIE1$)1"50%0";59#?-]A2&EG)>\=!1,5SU_R8E'"6^_R2;Q)\5'Q^5*6>G=.&ZEC+5NDCK5(ZEAC:GQ&#Z9MV VQ$\@OQNK$1!%; ML@:V=S!3<4+%"14G5)PD1IQD#];KO<5.+@72EF*W13GYG"9%C_5]P M+Z#=/IB2?0SYNNT^$5&=- /2JX1Y'NZT"4SF4+#DD4CE$Y= /E$,[;XKO$U7E M>ZK9CY %*Z8SK"+$.*S$/U63 *LY.HBM]W^@JB=@?[$/ M- 8F1"GQE/0E0FJ."^"X3.9D293:<%*O1^O-"3.2KSOE1:D+AMQC/1 M*9V0>;IQS/J1%(7-"'*,\W[V7 MF@[5\0<8!; (&3S#BE5_LW 2A#^8ZU7NZ,QO1@^>R&+!^A&?X^)-75.9/0598 MCLO,3?*!72/[]:@ ,DOA'WP+G^;8#)>=N\51#3R=!V^^A4S4T=W9;(,0 O_X M(P1@2Q(K*C)\'QG7,QV:D(3) >|.L*@APR!C9V S9=7N(SS- (3J]@HE>,0BO M6)Q;@<3KM0VD2 .W,$& W4<=3 DDZW@:L!'>&7PI:MVEDZ] M^,*8"_;U> H\X*(%N_91"57 M0C&32,R(!P)EFF2BAHJSA&)&H1V)$XH9X4!YMVR08H:J !0S5 78%=10%2"A MF*$J0%(Q0U6 I&*&/^"HYRR1F,DE8 MHG5B)H96"MMH(9RH/@H?"?8?6>;UD9-HO\J8UN>QH7"B//95SP6EG97<"'L' MIC@Z3M#V[E0L4;%$Q=+6P?21JY&":26_'P73-@7VKH'I(X\8!=-*[JE=/OZI M9VAGI0VU,^;WN2/-X?><6A)J3,3? RMDO?XJS0_S/LA.H6*%BA8H5*E82)U:R M!_*.2958)T]0VSD9MO-.#)^@=C&UB[G]XFL8AT? M\<.%CF]'[Q-UK&-6Q _*TOOLK(B$-!2>@\W2KGFQR8K$;7D4'G=K?2X==P9N$J T1RYKF"%! M1>*.B,0TEV6S0HR# (ZA(W'>1F):H1/Q234'BMAG3A(F$#,B+0R#^%A2>53@^ MUE$#5"!&_2L) $0LXRCBI1$E(1-H/F B.J#BLP.J/AA*\,7I%(&8(M,I^"], MI\ =2E3#^&!*Q?1;JP.OS&183LKB!T6&)9!]D7$*9)I"9.8$\R?/ (=_H0\NBYA2DR]_ 2?G@PJ.&M 1AS=\DB*_IW3<=N M1*8PS&X%,+HZ@&H"=W4_"?"0"S/)N!*ZVQ:FJ(8!:^ M:^LN8UA.DB=KG B@!H(E'+M@6[J#D 2MZ>)CM>(7J7.735#G#_\ FC.MCJ(MS*& &_R9%;HY0HX+,)G-M/A=JOX5F;JAVG@."7Y\B, /)VB\GLU!9EMT.CJ MWW^.Z:K!EW2^Q4;F6R@?I*S2!DK;:FWESW6FF$D>9OR9JQ0S"<2,/S*6HB9Y MJ/$G-U+,) \S_FA=BIGD84:@G<<3BAFJ B06,U0%2"IJJ J05,Q0%2"IF*$J M0%(QPW_00H)B9EN8R1YP="Q, (C%#-8"D8B9#T9)$M/S_]KZTN6TC:?C[\RM0 M7ONMY"F(P4U2WJ3*CX^L=Y/8:SO['%]4(#@4L08!!H>._/JW>V8 B0E4C(H M#L#>JG5$$L=,W]W3!_B9Q#"'Q,Q#:T9VG9>=0G>&72=3'2^?/DQ$2($D.B7 MM"L\0W#:RU(Z21[;%:8@VMDK9M!QVFFCO051$4D@DD D@9YX4,4)%>,?+'I' M8"+Q_*@H%A'.7B&E? H&IA6Z<%/+I?9>B0^WD23$=PV\X0,_G-CO)GU9? M<@/UV6-](I\37;4ZUH)D MT7;7O$\$S[*Q L5 =%6>W=%&C6W MW+3;T9VQI9O>J.V,,15@U:"#UIIV2W-=@?VU30MFBR-0+&7:W#>HX S+4CH M=8[0=8\K,%!NFVW(/%$4H,+6[B/S\2/F5=FF/G(\ M$G@/"80HL+FV9_2TG=^O HR:PHXF43QP$L4^#? SW'4>A5X,/Y#P*(79P'H7[MB'$4U12%;6,HXM7/.+C!=H=@UGE\#D7 9T.48RC\8AKR#SAQH!HB (^8A3'0 M^I_X$ZX&7RPN?KGQ=--R==OC3 M,3CAXSP*A%*&YV;Z W@.2>.YJ9NCD6[;XR:;/1\/ <&6Q3%U'\LACZY3O66Z MNFD.MW&CY,((OY@G$3QFL4R3*[8 ,&= S4@\RP(W"%*"] F4/@C\,@#Y9&H0H-^!I?R] MV)AR"2B>DB4G8A3@+ 5E 5CDWP/%7X5)D<'EEZD?(VX!.DCH=5P'8&/X0'"+ M,$B37]Z^@8<$\SB)DDN<\1+F@K08R)-D";@7DUOXEE.& (@F7S4$EWXU+D5^M MO;4N-L$J80%7:&N,@_>]1H:(0:(R\5!%",DCY)OFI7?E1PWH'7PK]K[YO[R!H@MP7J&-];? 1%QHM7Z1]4Z9 7 :"G: M9'-)F>7YG(T4^B0MLNX\@[*@"^G/%XW-_RN69-)=*R0QT#; (9M7$EBD'\H#:8EO,>7(@Q^QIW,"M#" M3'['9[JA&H)]HE@/D.=P,[,B:J@CH 6\N:9NZMN".VF7@=KB)GEI;J+Q MKEVGZ').D^M8ZC4N;EW=\QPPG+W*,)+VRQ:3:* =SU:HHQIV&Z%EC#HO:^CA MK=C&37':XO[-4J#1UQ9L,0%JE.2V N,D\5.<:Z9-094$X)&(*6FECDT0526M M^O77 V3AEV619@7HS/+!W&/ ;P'HJ.@NP1KAN,.',"=KX.\SE__"]2@;XJ[QK4N4(^,[L70OB>,(^$I< G$2XY M*>'7Z,!&41+XI7GBC%^4IL$4/=IP4HCA:6",%S&G3OXC&!N"8GW@<'CY5%KI M^+6N904PG0">'\"O0CKAY:M52:;GE@&:*AQ6_(E I*!TN36!Q(72P=L,9 H MP%UILEB7(<)E2\3B*JM#.%\ 2(J4<8\.+&N\|-(7 M"$)^ Y%2SM:[1DI%CV12XVQTHB.^C6P)#LT,47#%#7R4%6F(WG,IZ8[(@O ,MPRU^P=LA_E- Z?.=*-D?L I['N)#:>QX6M M9^E#<[?3J*\[^([CZ)XU%+R],4VTDDJUI:]B&ES\56;^^H/A9<9XO K 2+7" MGU,ZH\DU/!LT-LLRC4=!$C"W..\D\J[-R XXS/:(/Q>U&EBW^ ">9RCG<^X, MZH2QQ!-G)(&X+_X- RT3D:*B//%-9Y_4C..TA3N3DI"/WP5<_0(I#/JWX4# M2MSZ]1+^.=^M)!9 X5*Z6YP*SS@52L+AQ(B:?HT:$7(\|'= (.*DJ--9DQ&A[M3'\3>]LR9#FGAIG049_#FV:Q?'-V< ET!>3B:L\H.&8)CLOE<5DN=*2L:OC* ME<6 N@T35+DYG>7P'Q&#@OTG0'0R1 L_^Y5TS N]\Q4+N%RWN61JXXS&-'L MJ%TILD?JMN[1L!5%,6/0@"(U,0/+ (W&F)&]LP9#FX"B)&1)GRF*&Q)FJ]"%Q MIBIF2)PIBQD29\JBAIQ-13$S&A@T=$U)S)B#(0HMX78) M\H[W]Z@:GIC&8SN>N+(:LT<-++:>X*SU9VJOM45?VBZ2>%%0O&SEC?TYH9Y/ MURQH;(GZ[_]YJ:_P3 M-R]VQ7K4P[[L&M%^Z_O#.AFMD$%SL^1-*,CNB@0KOE4?]"E6T6*_^H,;#D0^ M*I)/6VW&B7Q.CWQ:[0W= <_7U+39LGVCF$.VAR;PE_;8,#A2#.PX@<&N3;\[M5JBP:W#JN1%'/$8\=G0X$8\1CQ&/D:UX)%^2:.? 8_F0G)@77_4[E&@[?G[Z' MK3S/6PU**0> -OO**S)CX)L;A;2B656 Q#W]Q]<.S5NS1E78-A$X$3@1.!$X M$3B9*%N.P!38WQ.C=:CBQ)]'\W47C[RX*X%-S3ZFR:0(L,MR_T(3?8[O-7;= MRH"^XP? @VIA)9.F.;>BVW>)P*N7"VD37IT?7(]TS/=UMMMZ[N#5MW@(BGB*=.EJ<A)^Z48J]&/B*SB0VM,=>T3Q:> (*XHHJ[6TT MLG1SW'HZIPJP(JX@KM@_L9UD.58 G4)+,8JL MG6QD[30Z+A&!$X$3@1.!$X%WU40YN0,/:BG6NY9B#9=".ZLZBVF?P>6@^$&' M0V1M:QV59-'C>HR-AJYN. [%? XFX^T;9C$FA]/M5>+!';U)_^B MORX^Q;!.,X;UJ%H0S]8]TZ6<=^()XHFR4]'8T$50%TK&CD+>'[+- \HNI*M79[A]5=JNVV[1,5Q]'-X9!"SL0: MQ!KK?3<]W;5;[+U)K*$0L1!K? -KC(:ZY[38&4(%>ZIMIZ?G)."VBGXZ_NF' MJ%,!0IT(H!)UQ@0(X@WB#>(-X@WB#;*I.GJ6='2*4/+DZ*1*;O;H MLMPXBFJUSK^C>*8((D40:TV7G9&EC^S6V\L2OF6/OU"M;=UU#'WOMMV#N"?*[=^BT-*

^[==C,NZ:BI'Y*=PB(4,J20(873 MB3>(-X@WB#>(-\BFHJ,F.FHZJ:.FG],DR[#AVRS,M>]^@0_?TU$3M0[J0>N@
MD:?;XS;#?:<< 2>"5NEXQ]1'S@BHVR+B)N)6F;CWEM:6;MF./ARWWQNA)\CM
M<*,WTS+I_$7Q\Y>NV16ZXZ#"J!I2K'6._D3B1^?Q!_5 MPZ/U'@4J (F(O??$7NV8ILQT[F2"ILR
M&YYN.V,B;B)NE8E[[YS8D6UCE095:"AUFM%*MG.[2#W^^4;_"C3V0N1G%D5X
M;H&^PZ]^^I7A*0:U=Z#@5R^#7X\:1:X[P[%N>C2,G+B"N*+FB#MCW1WUOPR$ MN.
(TN6)O4]@=&KICMCNG74FKZ>1.5/9TA=JO55I' MW!5Z-5V$<9CEF-5UQ?H5OJ!X7-
_B<8|:IZR[8T>W+6H(1,3=.^(>8ZG?24J[XV7H(.5(WL,;!I^"$/R%)!8NQ"*!K?[) MO^A]:(""9*<9)'M4ZR#==$?
ZT&S=.%,!5L05Q!6/;- [MH>Z,QH25Q!7$%>4 MNL(R=A*OH !2JP"L(@MB"U4_?17^*=|4A Q/T68S.7KS@1|
MSFU\K82(8;QX&OP&X.2PM-RXY:RP*S%L.6)C?!O\W_^H[V:%M;,@B9+T_"|& M_]_+VC;EJRV.QDMV-
DF9__7,G|&+S_WHVK_-Y+:'XP'*^R2=PB]&N2B$BV8: M]M]H=7^1OAL '?
AWYS50"BIYBQB,]BZN*W\+A7PD%\F68@I=>/S [&N)F)K\D%B=9.3.G;J^>" QDS[Z'., M\3C&E]2?,GC@UZQ?H=V_
HI>(-PPJH.O2H>|33DWCWZ-31 ^/@[MV_G3?7%I>DC=+ MDX4F)]0F<=;J8-J.(IHJ.Q2M[-
@[[.,:^LBR=&]HM1C].>48.-'TT6G:,G3' M=?21/22:)IKN!TW;AFY[0Z!IE\YF.EI[M]]QM#.B4Q@ZA:&(473*)I&D6;B
M#>(-X@WB#>(-LJGH%(9.84[Z%.9#/F>I]CX.D@73OGM[LV1QQKX_IX,8"O"I M'.
3VVMMDQ2()CHE.B4Z)3IM:9,*Z/T>'X(< F"/]4X]?:#JWZ!TAXGC[SW MT2IJ
K6["90[TAW+I@@N\03Q1#60R;89^?,DT+/WNKZ.N4,A*N:YZ3QW24@X [?@=0]T;M6^G
M$2<1)YT6)]F6;KKM5[03(Q$CG18CF8ZKN]:(3F&^_12F2_3Q&$_<<5O,Y: # MF[ZHB^-
'4TXS4'BT>LE3VS;%PD]HUT3BI[-K(O%3VO9)&BI'.A\Z.JZ/?QIT MZD4Q]Q:O?TER/]+J)>PZO#AOM7A=/8A0+
(]B>4^5->%9^F@\I/@X\13Q5&NU M.Z8WUFV[Q5PDXBKBJAYQU?ZG3KIA>+K3:D]R1:T^.G=2)3M0.=+HTV'3AI-'
M01V*6U+*G::C0Z5/G=GT*IT^_L5Q6,M%QTQ&">/;R M1ILFQ21BBD3QGC]A $^%S;]Y;KP"1MOY7^?ASG010"_?
O8CE@VTO_X02I[4 MOLQ9RK1K/]-\;9QN#]4^WO M1N_H0;(BA.](U M>++GOAC@,N U491<
\UI'.]:RF81"_*,/VOA_QNNQ3P\PP'Y$ M>#_"2!#;D_=(R17 YOUEQL[+/^KKPK?*)2W\&[@VSF$U)8N>16R6UWGVC
L< M_HWD=|-X@6O-T_*MY0;%'O8+GUCNP!G>%RN:AE=;GI_,V> V!(DY6PQU"#8DSPDP3,\/!D#"C)&9VY2409L@$
M(,R0"= 5U))H"AFR 10%3-D JB*F5WIDX29HV'&&)B$&C510R: HIC9E2I+ MF#D>S]R?SDN8^4;,[)]R?
*>5MNL8[8B0&3T ,FJ7&(QV@^""^K.OZX//F$/2U M+.P@B1 F/SZSGCT6%/:A"P^VPJ*6GQ*P.&?I Z#S.;S1?A6)
&]Y(D"KR>D] MH(K#>-;J$<(++9FUM/F#U]6UOGF2$20C2$:0C%!%1AR\6+5UZ+S!7+>TTX+A
M28CC,%ZZ>@!Y@?TU>0IJ:S2A6'5K$W@;(#A,\2MYHETJ=F^11-JT/8_8N*MU M.8-YZT+4VH8N_L ,]JXHHN-2U+?
8K7TB(M$6FE=4=,6\)5&D'!5M%T4VB2(2 M12T17K_D@;9)%AVXZU2>:^>Z-K"+]QML^_)%$T0-;6DD7
M7KE2;JZ+L$;W8YI,BR#/^MO*Z9GNY:K;:N(9G725HX@?E>[V(Q#8-.)TFNDES=)Z=C-+)T
MM3RA&DAZFV^E<&TY20LRALYT;P1K\V1Q!W)&WFRN7Z/ MC#<_2"Y]0&$5:K*4I;/5+/YIMKD5@,LMSF4;Z!]8O
6N":#)>7:9>1G&;P_ M95/@]72]/@LB(.NYRS6\NM$S@>< MAEF>AI,B3I),6T8^WQ-P3C@#+HIA97D2?,6T'ZY-
,C[H$"R/(EPN M8$$Z_]%?)* Y_A1WP]*KMTQAVU'"KQ0KTW@KWSKKFU,\ XFE)FI(G"F*&9KGI2IFK '-\E 2,60!*
(L9L@"410U9 (IBABP 53%# M%H"BB#$&(*,DI@9#6@TH9*((?VO*F9HG*>JF %'//%H=ZW="#;Y)G)
X(7%"XD0E<3(:C.UN MD4NW)H>J1C&'"1.H1R4'F"=ZOS_>965#KG W7.&GFD].X_JV0*_CDT.[,-N^
M3^1RB,%\AS5N2;HH)UTZ,PR4I M)ER<&P1/*&^$D]XE^NC7>4VWI0H,\576> M.S+(4_C.3]N[83=+R?
&=6J/0NK]-2HX?/+ 5)(*6.J9Y3S[D;I=,;*7%E3ZV M7'TT[GB?
R=U4T.D1=T]!"5ZK$S.>O)'/;@IHO],92;N.T;BK.Z.A/AQVO/LC M23N2=D\M[43)B&J[;$/:\9(+!3;61C\^6W<]4Q\-
N]Z1\0DEW#$:,AX,_RWW M8\2(AUJ0V18#^899&@<_\M]-R+\V&J%]D)W5M#/M]]A?+J.03;L0WNQ,=*(?
M0FMGHX!.&&%C9ZR;3NO&>#]0?/0DV%;&F+0XMNGXN0.'B2#T@US[(9%&XY'N M.5T:'4P2Z:$S'4@B/;XQ1)?
(=4U-N88P/Q5[7.Y!V-K77&55>-&-JVE1787]ONGF?KGNE2[/G$3]=,.ETC M@7<*
L\9&_K()8%WZ@*O13/^).2=FMD$[88>%-A=&T?*IC74+<>@A(*33"BP MO#XF%/0H?
>!M;8C9YW+VVV'J'2@FH5Z)U&'M=<4VV[+19CF.;@Z'%%WQ[6%? MB[CMWUD?";2C;
[;ML)OKZ6Z;*367:%78BM5P'*,P\DNDL\1 M3B@[0#TDE$DHDU FH4Q"62&H'"//I -@.4)^2A=YBD2R,@DNW22?
IT]W>3KR MZ6"NS![MJ-J@ MFH0A"4.9H*8;MJV/J,2_Q\)P."99J'#23@=D8=>2??;E#&Q7ZAKZV&N_76D_
MY)]R63Y[8]9MMV",3*M%4E#@U)K$ M7)_%W.,FGX^<$<@\&O;3#='UJ YO_>J7Y>D6CYG6A;>: MX[#S3&-PXU?
Y>Q$RS#5VS#,O1\9J4:==^IOG:)0]N M1/C/+$T66LX+F3(L8,)*IN?2M=/@T:;U0H-[@F2Q]%-X:IY4]R]%< 1OJ"PC
MO,4R7VAAS!3+%'V]]D [$O@ 8M649&W1&*2R*Q87;*!]@165KRW1&K,<]&(4^:GF+Y(BYI" '^"*H@)N
M$YP5111I"DLN-P779$7&?UG"%VGY/=(I? %X XK0IFD(JT'0^MJ4K=:"J(.M
M"YDQ#:]^^BO\4Y)4$#$_19DWE^BOM#J2@91XAO'B:0+2S2GDEK.R3"4?6VYM M&_S?
ZCO9A4W/@N2*$G/2X.DMDWY:HM+[DMV-@% ?3WS9#BJGMUK LDR,S4.Y"J_*M,/>C&5Z.(G1P/)72#=/A
MY8[IA"CGHT(JNH:"JZ2NT&]RP =7]GMKN+JLYQI($()>:B+\?E9$$;J4U9)P MC=/ZHF%) 9BU/BRQJ;Z14O+LL(9%-
Y'^UW"+> K!6 @#^/43J&T_#>8<(4 MF D]GR4@+")=4AVB,$[BL\#/YK#<)/AZ-N$$UWA_^2ZT9\-T>@:F37X+PD!,
ML="U90$K1.L WEPM."NX29+QE2]\4(>A'\'%^!'77$0YOGW&X!(N1(6U=->& M!]KG9)9?
@U&U'0QPZY3!2T!SH7@+YC'Z8/!XOR01;<(!D#N*#<;#\%7)?%E M@NM9 (V#?E'?5WX5KDD5.B!, 2;EE3-
!Y=FU*;IFJ?E6\L-BCWL=PYO6_>/O*Y9 M(+7'HVD_|^AA$CYF00TPV&GN28N-";" M#%D
A)DUGB&TJ(@66Q7E()H9Z^00<=I)T@B_/+'9]:SQPHA:S >$R&1 M$"(A1$+H:8W$^T.&1#M[Q>|
(3"2>'Q7'(L+9*ZC4+S#M'^&Y"UX4].E]T*<+ M3L6N)@);F>J^%G>?PQOMUX27:[WEY5HM-
;@CQ70,OZ%U\GBA);.6*.)(WL#Q M%#/)$Y(G)$](GJ@C3\:#P]IOK9/+&]Y?I-LBI&N>X1&Z/WV;1'DO&].TUIKY
M*)XQ^<'D!RM (6W:K0J/'GVPF,$N)J(-AFWHX@_L9])MU:2V(A+6;9^(Z LV
M9Q/$\QD[ZG3;$B9YI)P\LDD>D3PZ57G4><^\3Z3U>N['EVVY9"2.MOOI?2*8 M]|[(H+MC5BB$^X=-0S*S2&
[JPUA:TZ[G!=-S6K,_5=AY [,O!&I;0S),K6(M=T]!-C8\W7;&),CZ+,CVH@7/:[O60 4@'5CF&2H.+V]G]):KR&CD-
H8RC6P; M!VZU.)BI[V*N1\@WV\2[B&.H)JF9*,A70|^S,/55 |^;BF"U3,7X!A5F M&-P[2N,SBR(^B@3V\JN??
F4X5Z(^1T.K7[$HK]B63^ ME(N/#.[0Y5B6S%\L^?PQN!H@6EXI?\S]V=;Y&X\8N*&O#\K 41L3V+5 /ER9 M:?XEBX-
;^>LUFV0@U:JUPW[%JN#IBS#+^!U+/^2TBF-?SG+ DUPSGX)1Y%DX
M9>5[_3COVNP*&@E!/8=H),1)8(;Z02N+&>H'K2IJJ!NDJIBA?M"J8H;Z0:N* M&3(!E,4,F0"JHH9, %4Q0R:
JI@A$T!5S-!("%4Q0R,A5,4,60"J8H881DFT MT$B(V.&1D)05X3VBBU.I0B)1D)0N]\>=D'K!^U0EXBC=UOL!R&1$"
(A1$*(M1D(\><,#&@E!XOD0<2PB'&J8\0AX4="G]T&?+C@5U,)=#5I1U&^@%NZJ:!R2 M)R1/2)Z0/%%*GM!
(B),B&!6]9QH)02,AR]6ET*H!?MV,4,C(:@%>SLMV+4> M=%\G4:2<**)I$"2*'BJ*:!J$ A**ID&0.*)I$#0-
XL2G06SMI$>C(&@4Q$EW M4'=T9SC638]&05 '==-ID0I,IH4Z";W.$;JK&\Y8=TC8WH
MY]@(=VCHCNG1V(B3'!MATM@(U1SLXX^-V#$MX%$S(Z28X3,CS-9G1E2_)C/M MN3.R= M/:0:+M%8G&G9^M
Q\0UR>,+F& L 1![Z$6PPF#*Y-J/\8Q []-PUR+DDSED14_TA3/^(0>C5=A'&8 3BP\4M];D7]
M*K]QU0H%8JH4V:S!@?\ WB&$087S%LAQ@LAH6\=W[3]_7QE7X*0[XP,>7 M6-@YFF)]Z 4?&C&;A0!^\9P8C]?
YCS0X@@9']* S$0V.Z!UFJ&NTLIBAKM&J MHH9Z1JJ*&>H:K2IFJ&NTJI@A$T!9S))H"IJR 10%3-D JB*&3(!5,4,#8Y0
M%3,T.$)5S) %H"IFB&&41 L-CC@P9FAP!/5.:*\TXU3JE6AP!#4%[F&OM'[0
M#C64.'I/QGX0$@DA$D(DA&APQ)/W1J#!$22>#Q''(L*AWAJ/@!<%?7H?].F" M4T&-WM6@%47]!FKTKHK&
(7E"\H3D"0)#8XX*8)1T7NFP1$T.(+\8'4I MA+JU;QW+8N:'Y]\#W5K.*(FZB3T^B_TQKH]MG33
M\4CHG;S0,XT6J>!DA!Y-CNC$\(#A>*B/+(H2IFS;.CQCN/00"Z#J8\RKPNP!]+(WY3((X*Z+&+(^-V]RQ
M[MJF>%E6I'RJ!/#](BP6FQ<[AFX,[7M'66R9@&&/=,_%*19\5L*NL1?Q:MP% M?Z7MZIYIX=T1NX1-U5_5O-0:N;HY-

*L08D"GO_(*D&? I'>5 $+_ 7^ #3HRH MUB^I:A;"'>&?'-3X2/P.B4K<)3>W]E9[J \M3CM%CBR+\R7*-2H{C>,- QP' MH=@HCV,N$L"%V'E}(,?&A7[MPG*?.E!Y7L{EX)R(TS 0.AD>V.E{BP!DJ>?@ M2KDC? 6AZ3:X'/AT#K)T1A_6],@"%!J"IUCVGUA\HB)B?HH::2X"5)Q,V NY) M&@3=&7VWG)7'(26LY:TW ?J/1K>C2H? BY(XD/2]/56K;E*^VN%*]9&>BF9(_M@Q>?^]&U?YN57MEX4!T;GU<',S:7^<; =E]HM;\1/AO Q:D@-1 V!H/(VYJS M0UF@D(&K8%57.'XG MQ\?< @#JI%SN^P&WK(XEF]7(1+)JPP5)DKDMW\4L!WX#6T%O+(NO]])R9L#:;)-V2LG M=\$5J<"##R#$3(MP]=Y@CN93IG$%@ @HER"U(1/O#ZOW"[5HZ*8YUCV0*=HK M$*]@&(8!* R6!B&:0/"TOQ>@^4VY!#2TDB77*JB,60H,#BCEWX,*N@J3(H/+ M+\%"040#=%#SU!$?@ _B@P98A$&:_/+V#3PDF, <@%"]1)8>YH#,&9DNR!$(0 M@YSXEE.&9E*I\,MWUVR M;?J-0L0O!86<(-W39?A?:]10\5@'#+Q4%SHW,_E M:^3J;JO-^!RGG%,R7Q)4OYI>P&M'6&ZQ9O1];@(CDKC:': E%_(R**C WJP1]@Y-7S MY_Z4PU):A"55P,Z!+E U5V0 H$?+ ^0KQ^PYL0@!E(!XBD+(.+@XQ8/5E H_C MVA^XL0EA^+6(N?2$U:-82?#3K0:O!@L=WN-+\,'/N)-9 >* R>_XH#AD =@G MDE2 &A W,RNB!BL U/'F&JG7MP5WSEB*D,^ 9;AU69K?:))JURFZP]/D.I8\ M)0QPW?,H L_+(LT]P M?BT?S!TO_!: CDQV"9*0XPX?RC&%"H>E&7K8YO!E[0ING'&+%LD&S=HX1FX' MR7 =YG/^^%\D\[XJ[QK4N4(^, [L70OB>,(^$E.(.ZI*3$GZ-'DP4)8%?BD9G M_*(42U/TML-)(>:X@65>Q)PZ^8\@Z 3%^L#A\/*I--GQ:UW+"F Z 3P_@%^% MK8"7KU8EF9Y+)123'%;\B4 "DH'2Y-:/68OVND5'1/ M)C7.1G\PXMO(EN#=S! %5]S20%F1AN@$EI+NB"S7S9C0_0;-!\Z][V,0^(#+ MWUB.M@JP#+I8_&P[T]R+K'V'B:C/1X8U"LSDX/4M\,$AF& MISOV4' W=J<%RFQ$>C86OPH.<0%8&1GK@1O/TZV1O8KW2,7"GU/:Q3$G!_./(CI@ 5AC?#!J-C W<0G\)1'.2WTKLFC]6T)5'%> M$KC[XM^P3+S <'5[Z"@;Y?@('D2(T(Y^7E!+"3_^-C;6=@ZNVA9S_9IQ@YGS,K=N\ \T$D#+<4W$18,^ M&H'+C*&P=7GD@6L%3L+0$\KVN>6!MP#\/K:D>_ &E#':5[+T0OA9AZ7"^WGU M7C 4*8\-2UM#ND">!V)WZ#2$>GEE%/J3,MS*+]?=$<#$'DK?3(A;$8T$SN;! M$.#:ZR3]BDP:2#2541(9G\#7"2G_J@%$K81?M6+__D?9*-,=W7+!_?U0I%N7 M+0R8!:@)M(S@/V"U+*4L+L/6H$7\6U10.GZ3%K58NYQ$#-+'YSX&CYT(N_@L MF9V!KU9_6\=&$Q]EH9^+Q0)/?S A^SX#M1N=DZ V\LWG"4XE1P)48Z5YL"$ M)V8\))>Q"!2G$'/8U__N[\2"P M;=A9WPS'%NI?O4/WFWUP3= 6F.XJ=]6J2M?6BA6)U Y :MYQ^V(<"82=9J$' MEI"1)E-"O!R:8NJ'4LWLY,F!-%27JEH?",P6&\4083U8'_6;L.PVI+E:B<,/ M!,)O+!?1!1Z=GHITU^^*C(>JVBHKMQ2L(MZ$4XL5))8BF?9[Z_TC:7K3Z43E MU1VDTAK!G!A_&_-/N4(R1? G#4Z88K07^Z(&S]*$ZWWB%YZ[\+*,+AFE'R9\K M4J7_TDKMN7/T"6C;BXOOQ/^=97@FY@H:F!W:8CT> <<,]:O,NL/SP[6I&;8)\ M#M1FZ<;(U8?&\/N^.VTB?_Y BD;US:O ;=UPXMKS6;OAB3U235FZ93NZX9BM M:RD5 *8Z*W7#WVN/E;KAM#W6XC.YQ6=8QB8O]<#!>Q?&?AR0@W>R#E[,&E5M MGC_3B+B/XZ]UG+B[X#%^Y[B>;IGFNK-XM$8ZC\OA/$KNZ1M1GKZ[R DST/EQ MX?-5+ A3ED5J;9+64L+]2J,.L-1*$\4_O)IE/7L=R&Z1P:-3AKGTQGBH.Z:Y M?^..LAJ2M]K)G M_I1M%)Z(,MKUXA-L# <7K*6U].!ZMZ@YE$6,,S"]JM>#O*0@1\&C@>;R;1]DC MZKF+0L;V[EL#KW 1]=Z\MI@O:*"]VT+LG_32^WYV!KK'F@5[*;1:)Z"!6K+JG@^ M3Y*(BW:$WYYM5UZ*6EH#_R_Z;6F2,."&*1:[7OOI5-2,;&F1,6.\9FH1BBI9 MKG>JBG5!6<]M_2BX>'JEWY>+18I"V#\5=#P-,3Z]6^EIMMP-?>(J\D*ZTUYI$C"6&\LG8)' . M3*C-0VP=B"X&+(%WAA%P%;6&564Z6"J711<40_?\.-<: MBGZ6#]@0L*!K@; <67MN:&N%;;ZV2] {Q(R@6A>C3,V6S, AESR;'T3WXO^N- MMCQY#X(3V"%#0Q^9>]UE'5Z2"#_BWP4 M9G: {3^FD=);\20)\F_IAAN63DRSW10.8:5),7ET@@U0 ML*<1=FRY3+A@28#ITW@[2F&7X(#(EA.@+*>B_Y/_E7&,(M7'#- M.8&'L_2_0 M\;MIF 5%QKNX@MRZ;G*9:,;"1"4W^$C7O,',I,@ C%D&]'$98S,6V';$7S9A MO 4#"*99*)O<8,\>%LW.,H"N'\9P-QR_78WMKH;D-M_.Q2[!39_W$IH7D7>Q+(@^T'1)N)N$##M;) MJH;&V/1E"5QVPWNE >\|'ZUL=&-KJ;](6UC@V9ZLX2>FYHLBS1:I%M=N&C M7 #O9)#SU@0Y/.4%2HAZ-P? >K35"$P<>(KBDM$[YD_'^3W5SZ,W*'-+%.$C^ M]:]@U[.JQ^_= [I68;Z-V"2Q$;%1DXW>+Y81UP!5+TA?NTJB KX 72AU&L9W M&+JP:<);XI6$#]QTF?H+SC[(,F @'DT!0;,A-%-)O * M\(<+_YFRI73/BF6RT88(VZJ5C^",M- Y&,"WBN(J__N]O.F["XU^!(Q"5!I@K M=#4*A0 M0]&UW+]"+54ITC4Q8>FF%!-5KS79YTHV3 HS[,47<"]"-.+SI7^? MRL\"#MC-!%LPI=BK$?>/.^>2QWBAU_8;W>IE]JO*7+\&15T#WST\OH\Z)95+ MLN(1*I>WW8';N/$WJSN- ;U9Z;2:%5_7>W/FXZ$!2!CPWD78+&6,MU!)ZS_N M1>QI2D32)]5Z0REEZW#[E"D6+WSM!35NJ@)..N4[VWLBZZ" 8%*"'9[+ 0 M;+E$L4>S>%/N& > YV?$6:N#Q\P,'##*DC-M^I@)QZRP+),= M<[<%27F/QUJ[\!@(_0S[3*.IAOQ0.O"U0XN8AT/Q>\XR8>6[;PU[E<<@W+J: MP1)A!3P0ME:H^6R=3$/%_.GU:).P,EX((/];XE?B5_W/"VO.Q ",4+V M8Y=JI-O*A<%#/ :.0=E7'1VKQ3K5\V@? =_+ABHHURKC\CA-'P3*BH:^SKJ,2 M[=!A3"I0T5@JQ/*N\"J6\FG0X, M3J7R< 0]@U#83R"EZFXX[GVPX MHF1#2C9L*]FOI#I)]7ND.F_4#-C)M5)2WX<'<'$>W)#@^@0_9$0>5>!(P\^&U MJ8.@+;G@J6'#]\)M/+8*9:V<#- PM^OS_*OX,;W@$8F73+2LM*(((Q]K"X-L. M0XZ3)6.N6F'6LF1624Q9,[+\V! SN<< MC)ARO- X[@)KV^RGC/+IR.)P^AJ=A0WY/W&3)>) M'_-,OUF8+JICNNJ$K'1VA37/1YZZ1G4,+[/PT&U.8GETQI>Y\#& [CS]&!H$X M/$0.7[C@XV/X?T,^OP^S62SCI1Q"M^#GYOP[\R6.@.&&53W[!1.V0IZ=Q+UV M&5@3]Y4S 9-8^! FCP8]=_B^B#!&\U_8Z'\JKTGW(M_'AV-2RX2MEI MYLU)&->SB*18J- TK*;!*7L6YM]+VE:'+VNB&)!7#Q8342V*&WRQP_-S*=80_MXDPF80VTOR77:$'K]8RMP, <$[:\,9_N!3)7CFZL1@XVT*SR\E?/QLB+ C"Z< M;G=;!1#Y."QY-(7C@O %\.:5E\NQC0%31$' EGGYN,9A%L(SQ\.NITJSV]Z4 MLCY8H7*1!4V+!^]DN2LFH/7)I*MW/!_%AZD?CQLS]CVM_\=,*K3.0 I^J0]:, <,_EYI1=^ M@?]<"NG_"2<^+K#PG.<1?@3PH&0@%^^K!/)'^+CA4F823(NT@;D!%+:: M#2L_U_Q8:: (221%)W4%2_!2&R?F?S="$=-^S\E]+.FI-'U+ATV.P:T.,(C< MB-SN(;=:I8[4H3IWSJ/;ZN1$*LLJI,#S,- V%- &"VOG*VME+)HMCTJLP$!F# MX0(-8B;*]ZH#EVU7$]D2V=Y!ME4ZQ^J8&A.;_.D5"D%>.U)P:IM@ZE^83D6F M17GVW"1Z>0C(;7E!1$=$MY^L+$\:1"9>SB>]JYBZ0U2D-!4%09&*PA4,< 98 MDX9!Z@+(2,/>$/%4^J;LCT) <)S4O/JAJ:T($1P2WKXD7@0&7\I)[25-E#A:8 M;F6&"URX8"R7%$C41=2U'W4M0 UR51"4DW24I+Q?/%I^<6UGS*L MLR<2(Q+;5X"!T9_KV+WKBE=<\^8\-]@TA 5Y%4HN74HB+"*L>P@K!74H:H%C MX2F>H:=X*U1B"*:\7M6)K679H/A"QQ.K5C)QRC=-L0!&+\]B;0$M6Y6 M!//2%R7*),K<>2K&A5S!='"D),I!L1U;W'IN%BZ8MC4PQ[MP 9E'DIP"PZ": G- :SF(CHB.]CM^KS3<)781W*'7,E^!,Z8*'*K Z6P%#@E2 MY01I5LRPZ2K7P&5WW?)X7G;JD^VW,*?\RH]$\4 D#ERK'WFWR_46M64TF2>W MK,UXN*-_L,R-GXG4;=&K3S38NH$_KEETQ7 2Y/>B+Z5HX+JCZO+X5Y?D0B M+S,]1#6X55UC01(GBS#05VU?1975) H#['5Y?-:-PR$&_.SM^H/TW%M+P5F):AD5+ M(!\PGQ?;,(F*#1X,\[.J_"<&= (38'3_3R^H?^1-/9[_:_#[[@/K7V(3G,6V MIXBLD8VO98OA]:]Q[6M?\6:[&U^6:78;/Z1L&FYYGRP'VO@^FV_;#=;);'R' M%U8%4]F6A4!#V%SZ!CN>BEH#CCN@V2MVJQ68>GY;LY1Y^)QGR8#LP;(R M+JA#)*!P=GL?:A6IW.!DC#1T3XT&$FE63!#@O%.T@(.6AME7P>0KV)3I00(/ M6)O$0,T5O# <3W!+A&A%\X+H"=T% MCS?CSW.D:K%0WED:^S8#F'@%X33$RC?4LER=8B54,XC7>%ZV\4!)#*+J#-8, M'#05^5#WLZVH-6EL;6>!1SY/X)XIRX(TG AP25+]A,]Y)YY34FPI;Z24$5C MHKSWI BAT,U7XJPPRMCU'#NWRU.=5Z)=\"=QIRR/E+<89_\H"QC%-UL:KHL? MRE[M>FV6RXQW\<(^\:)ZK9H>];E9O? FVC$Z\QHD?G-FJ+E:#M$U4*'A>@);.0L+9\U@[9I$V0R+_)_2[NQJH:^RS:^PT)=AX1U*6]&H MEI5]@5@D:'%IMTD#M\EE4($%73?I6^D*<[<8-8A>]M8%:G*WY%,7'!>]_S:JBM)R[\PM5X UF*5&NC! :C'\@VZ4"0*4*-DZ]X+8 (-MSPAE.JH\#5RF(>--25+JFUA\'8UMA M*KBPUMQM572+L)11KUJX0J\W9\?*V4S0Y^K!I73 #/&O2%UB8:C 5AT-RZ,F M6?/)48+X7 H!Q!D29_G47(2R B_SP1Z1]QU+FX$"^V\TBD0/LI3Y?'.\W4#* MRC)86:TLM)P)R^$+]MB:U#F)8'L-I&'0)(6!MK[N"H(UH46N5M;5BW3A?]7 M$C?P!3)Y5< XQ:0A^..6OY2/2*HI3E0.$\'[@ G>7,VO/;J<1+!ZNG@P+@WI M0HHZ? ?8D/,0?#8NDV]!&T@M7BSY"NY3^[FP.9=)&%=]GX7ZU#'_S,"(\+.-*

M&FJAAGP41('P%E?"/_*O,SXG"-L^|XD00DMG0>2'0C|GX"_(*DY,5$A@#0>E MKKMG3.Y90.R#N?? CLXNQ:XTFT_'L8C*:L0O'FTTO)EXPN[!\S_"QYM,@M$S M$6X2=Z"BMQ]9(?G/(H$Z(>/D?ST!H&2@ :2- SW1.#EC>WDUH A$QNUY&/,G M3*(D^-I@S%6$UY6-)B9/X)C*&NF5S6,/1%6T0,]]==5UR'/.J\%>JX#/,CF> M10PBT- 4.V+=M9!W0@G*\!(6_(NPD3Q(//N#;^0614F:BTZH09*"BD!^Y\-0 MPCC+TT)J4='P8H)V'E@LLJ%7)(_)17R36[+ <&95.Y*H5@3@[T+'W@V@3,%L= MG:\ZL=8L *YHWG['HS3):M"\($#@%@P^-ZI0/QA)%X?6GU"3? MLD@!'"S.'#;!09&']@\'*BH \#223-@X-6#M.-?;,N^KUEN"+Z[,L>%V#F^5 M(FT(K#%*XK/?!Y\'(&4C='V!XL!JB?UJ2(7,W\6EGDJ^ZXL,R_^R@JN&5? M@)'(^*Y ="-2:IU:V%2F7-^_K16UE>I-!E%XPP[.AMRS\K,L 9+)I1TCD[FY M&2<[=]3"IR%VRHW"KTPT">6=RU5&8H,IRNWJ-/BOW]&^C40[MH:UFDYD1C(;#"\^>.!?.S)U=^*;I7- C3B1%85N":L^&&MG)>"WLH TQ_Q)ER M4Q20%^;8-0V/U-0#U)2SMYHJ0\F8=LIKV] =G-==\'/-,!M?B=C,:\?OM! M!F&^YUL5U[^K!,3&]>^JZW7>K4I&G'A3IS(\5GM_52#*!:WTZ*8K. =U."\K M.*\"S3CY+Q;^VZ(/=2 MOW@%A,JG8>@WS>1#:@)TH\N8616N0N<6/M3V7LZHK=RU!DC*+>MBOV*\YMW; MQW%S0E^QF(- ,*OA5OY9ZPR>P&B1TQ3J+U? $OE@>SIJ%(A40G*M%F->:KC? M%_(DGK;SQ%#": M"93R,G7>8;7$ZMO7,HR&KEO!VYBM]AQFC?F0LKO"HHC!"Y/JO=FOIMXV!'\! MPA<$_^Z#()"EB C!W3I/;,/ 75GU/(5UBR!ZRB[!P<2'5%!?4?-^Z^R T_> M) G](:O!CCB"?JJ&^WMP#!]GN6H#!SC'4WC8HRX6R7#H[U/[URAEZ M7X9H7]=#M"O%^ZD,T1[/.?_"SUFXQKO2[MT.K?S;Y?:033G=:_POJQ(KKD$GZ[UOI>RLQ SGF>K@:);\R43="S90$_4!-S M4,K ,7\&WWCM^,WGLA65'1ZL\5,W/P//;!+AX/?2%]NX0?\V(%7!R;(3)_8\ MG(8- BV+C%*!F]R!)-Y$M'Y 5@TC1G!MS##F)@-7;&(8G^G6M8KB[N'8'(VL MV="Z"'S7O'"8X5Z,/,.YF%JFX_O&Q ULO^$>?@0J>/_^PY>_O?WT_K=W'S[] M^NK+^P^_7;A#>VB.#N<:&J43T$:G1=R#8)KW[P<:WXM6VTSE%S;U]80YMK0;N0WK!QOW^I8C$EN?XJR!7 M&%\ET960(BCY9?H"]K"4DB+BNUBN=L'CAZO>E==L=6;53&@0/L/UZK6\\G=U M[H- E<;7'HIS$4A(N^\&Q01G,0X*Y;.PBUEH:U,)SR6\][(:""D3?TO?'P8C*= M3B^^<(!A?C!R?700>&S+FPOU#:R-^9; ["\+U,I+BPAM;8M(A5'*JK_;FU7K. MRG'9M'9V6S8U+F>]K9SCC'%S(9^O)];<)D5YQ+#E3)F?B,JS8S0@BDP:$#5= MHC=2<@8[DGK:3]#AF01I?1AC4V*.?AV6N+ MYHR-\6'GR>PM[S*^"LR18'J 8++VEDMUR,LY\Z_!?#7T]1^ M%\-.I<%Q9#'V64X0:&Y@M> S/,YCAUS?W2RSP5W'Z[V^&Y ?Y4GL5KR?'QB. MK=I AFDQT[(N#'\XO@ A- +F8&./1A15XP9 9ELF"31O(?L-F/DK7WY=)_)G% M89*N=G_AV*8Q'I/H.4C&20EY#4&O"=C72.^XXN6WCA#]V!O9SL0:7]C6U '# MW_!YMA=XGAM,- XG>^166@_,$\MM:9L^%Z9J>>^#H1,^H??^#:P2Y M)F!>3ZY,ZA[96_=QB;P![7K-X3)E9[S]\-E/ MVIM5E'\MDB]\R<9)*,XR1TW%'373 T\P9>@>\KHGF>[@3Y,E#_67$ MO ,SQ M;]B$4U1MX*H_X? G6FT(<[U\X%^8%/O_B2W+A7=B&^'"=1W'P;W;S]??7_U/, MK>$BF_W?\)_/- '>'Y^%- PCY)&)^//.CC#W38G^!C%7\&9YCQH-I3%SSU:JB MX==DRL_0WT7^Y3/.)+_Y:7KQYYF9W4;_B-VOM[]G_M]?? QX.C3\NG_VTD)?_M]8?&%G[BIQA/ORT63!N[^I(NXGQ]+Q_9/_]E?OKX6C^$8Z-BU?/ M? L+L2Y'1M[X;S2\C$*>&MYZ9&YO*4Y\'66OU+&5P9>WH#!E=R5W=:I>57M]GV7';G<[], MROVBW*^V\MS=S MX+@\NS-]QQT?T!.]7RYTQ?GT]G8^2_^747 (P,:#V@=)):!G"I7@.09"+(N M!2\7"WZ1)^470B;P;QJBPUCF:W)C4U;G:;FPBI,5SMX9B\AN55)E#M#QBA4S;_W1-*&\S1,[IYPWON+!N1V\>RU)- OO*'KA@-KS:$[$U]]L_8^ MK,I0U69I36D\Q09+GNX#]38X>1<]V_H(M)N$"GXA/(E9QD+S@"SV S_G G5 MW>@<^O_^*)+\Y<[WB\M>/I,.-$8MSS"X9GBV<<-N;'-J#N;YHH5NF3M=\-<(M>NQJLT\]L?SY$_F2K$5WK) (,^Q*@FFJ,@@H9\4]9.UE$I-T@TF-H)TL![;39 MO8*T$VFG$V+\T]5.%OE.72'2I]=.5B=])W.D85N[UX.FGC)MURCS:> [69F/# M>Z V(W5&DD(Q27'*ZHR=+5)GI,Y.6U)T49WM.) V#7*[.D)] M[WFNH/8___7I%^U- $O"^Z67#D&I"AA#H]>D).%5%CJ"YQ9SP.,E%!SCL#:+) MMB":JC8)J=/[#IV#\'G9/*NS(R* FAC\SRZ UVA*I;\5),PR%Z M[@8]O^9=)C_ZETST'_5%K^ W?NZ#(1\Q[3M1;<1;*F=:75>(#LLQ3H02M5]E M? B+H_N_7K>QR^.41*V4PC57]>AY:Y2-6^9^<5J<:UF-BJ_&G:ZWUG_^)\]+B M,)O77D_8^68A^A3KZDD#= (N*X*@(KN4BN!GSI[YG#"\$XO@1FR&G4BM"]<-MG/%T:)C!6O_1S^]__NW5E]_O?U\80\-U[/6P'76E/DU;J/./9L? <4?;!%. MT>";#Y80CO>^(T[$C57$%2>S3(M(CAZ>-IJ BC:\>[,&XV%/M^9X'=W; M0V+ .VGS&$'L'+W#"+73C\^L9[L1-1Z,G6/OX5^__]_[_]%>?_CT\<,GV13_M,3%Y5?'QK7) T67OY''5SW"4H)*(#BZ= (Y__NCU_#.TH M6/'9V-8/V0_:1[^(M"^ICY,\.TQG))>>=-U$-1U;MAI4DS*< (%C">_(425: MZL"RE:"E[SZF88Q3:*-- *OJ>R*@#RU:"C,C 5H)\>FQ@_\P#I9]P!E 4=9C0 M2#]Z;J);+JV;"7(9F4+_0LL(:VRN,74[V8F/5%5!Y:M!%61=]:=92M!,#7O M;%6X@R+H51 D1C:"3$EJY",TO\,S M7ELP]'HZU5423K=G4ZU.@2?)]!;^,||7T4__'U!+ P04_" #V@0Y9YP(V M8HP("N* & '9U>FDM,C R-# V,S!X97@S,60Q+FAT;>U:\5/;.A+^ M5W1T[A5FXCA.H(_G4&9H2*?,M-"CZ=V]GVYD6XYUR):?)"?D_?5O5[*# \D1 M>L#Q>NU, 4NKU6KWT[=WP$ND;U(%F$Y-_/]OU^K[]/ M>C^'P2]A?T^?R*[7R>C/2M]>C&:_/IY[*;]_/7=Q[,1V? %|_Q^#D>^?3DY=_MQWZW%Y")HH7FALN""M\?G^^0GG0^Z4DW]R:6?F5SL^T)*S;J) M27:.C[_%?C*:'!_ES% 29U1I9M[N?)V\]PY!PG CV/&1W_QVLI%,%L='"9\1 M;1:"O=W)J9KRPC.R# >]T@QAI_=MV2NO3E/3!8&O=Y?AR5- $EY,/<%2$QYT M#P]OFA2?9LLVZ986*B:HX3.&NEM:8\&H"B-ILN'M"=:-+)MQJ2R,E]*L)SILDYFY-+F=/B=<>UP&_- %$]?#ZVTYK\S4 W+,^S:>%3P*2A'6UT#+Q* M1CAX Q+.(6'M"TH*FL.D__H@KO9[A[_T^L$^NHB"*U<,FC.[]$B*!,:- KS,>M<4,&03'_=Y@>.2C MX#,:-AI?3L[>GXU.)F<7Y[O+K]\/3F?D,D%^3(>V;9!K_]\YER\)Y,/8_+E MY/+=R?GXBW? QSX_C7\G):$*@I]][3E/^=R%,,>.L0S[32B IS9C2'1(S97BZ M(":C)GRJ65_(XH/N3Z^"-[WAII(G) .O$,5FG,TA$9B,:_);115$4RR@O93* M0'H@[Z7*(7]X?R,R)7^O?N?79"05]%)DM.$CVK]"P\'A*L[^76F,W0J}>5;H MA7A_@_6;3>W?$Z%W5-L$3?(%N2KD7#!(Y1T7J#H\B003"PDU -A">4%HL2!5 M853%8$V0X&V! '&C) (3N"!0L9EI3M4"1G%XQF+>E M4T-; L; E +3!,Z! C%74)6 &-0I&BQ)F"+SC,<9T17^N!D_9XK52G !,=>0 M/=&!KHY13)KG10H<8ND"_HY%E8!.0$XKA!U '4?>*2'PB%G$,M2O2U#6>-"W MI@;<)[:RZJ!$)4 D"@!+G8Z;>V)JI$R"FRTJ 1#"@7G"PRYP5P4'BGMPCQ\JH<"A%_039JP5> M!R:T9>N)TI6)4I@(UWD;TB"!R? TQ2YS_)YB2YK\]/NT<[]*]NT]91J6#O&R MB>U^,'4PY\:TTML/P>07,0!&/9-+I()2H H"CV(Q =2K+!ZL*Z]H&I!M!C MH8EHIBIID 58Y]2% ?/]NFEQGUD06GRY+;(BVBI4;2*YKA=45G#RT1 GK$_B M6*K$&F!+UBDKH.P0 '/H827N'Q2!K/2%9FLP7;Y VZE&98 M7*?W'XA(U)3M=CLRYPD\K:/RQ[X'VGS7^&?-]\DZ;G21NAMQ/'+7Y9KM60NK M!S BYG 9QY7"N+82YAJMN=0&VO$*#G3I&!35-SAD=\.0% *7'5+NC8<#DK, MWA;@14)1+>W:4$$OV*BOCJX)=_YKUWT \0; MZNN#ISI;V9O"I-D G1MZ0;9K@_"&:1!&#R@@[I2E2^LHE*9&*KW,V;8!5.8Y M-X:Q_\#ED82J /L3#O99);L 5:!.C=0,O[% ;O87^ZWB8+ [=2U41V^N#O<<| M0GT?.-OJ<'0BH(2"DHX#D/!$BF?;F#,(>YT_EX>4.:-7F!!=2653HBT&[0UE MFZQ^%'P;3R\GD(A3!?30 0@P2VH (GNY7*.MX_(8+V92S!@FLX). MZSMR5?,@RTLA%PQZYYETS$=7I S8>Y1,_YC'@,U,TA+L;Q]C^[[" M#<"4%TLA:*E9V/S1M@1CD[FWQOC^&QT KAVV<48K(YL&]VK=MJR@H0T/)X,M MK;?I,\1>.[W=<>|>|=,_U=A9SQ\X3YADR:B8WJ#DJ6^LC"QKC0>@L.6^>N+& ME:VW^RW- &%*\3VY\V#Q[8+]#*,9NV$>$1IZ*T72&)F' M01=YS5ZYD5<]^^]Y%^5K?^4U^? 5S;R7UNF_85G+O2M/R@[D2:B+/<3U-(;^&="9Y4@?[M\+#;WU]RF&OK629W'^+9+_N._P!02P,$% @]H$.60H"HV";" \RD M !@ -!V=7II+3(P,C0P-C,P>&5X,S%D,BYH=&WM6O]3VS@6_U=T=&X+,W&< M+]!E''*3 L]FN[=_G0C6W*L0[:\DIR0_>OO/H5V>^U,DUA^ MDI[T/OJ\CX0._A($DR*C1<(9>3M]_XXPE50Y+RQ)-* <62A?"9F2JRI(6Y#W7 M6DA)WFC!9IR0?J_[]ML?['5[07:X &V-ZTJJB,A^V-\-![W!+NG]'/5_B09# M\N$]V? XT'>\XZ^/S\?2W#Q/?[8=/;]Z=CLE6$(;_&([#\'AZ[%_L=GM],M6T M,,(*55 9AI.S+;*565M&8;A8++J+85? I63B]"#.;R]U0*F5XEUFV=7B)?#) M*3L\R+FE),FH-MR^WOHT/0GVP<(**_GA0=A\>]M8L>7A 1-S8NQ2\M=;.=4S

M4016E=&P5]H1U SA]0V;JV AF,VB?J_WUU%)&1/%+) \M=%>=W__NDB+6;8J M4WYHD>:26C'GV':KU41RJJ-8V6QTLX----GQ)?!MN!;IRY&S-N(/#DW#\"R_L@&58@:-HZ\C/_ZH'CHE!{O?U?>J_Z/9P1>GB #34NS(41L9#"+J-,,,8+J/O3B_U!;S@Z"-$0JI3/ MY'*\ULF"NPC$2C)X.;G*P$}+AOWNX"",G\BK!)85US?<^A:F:Y-CX\G%]/3D M='PT/3T_@^5Y\?'3T=F43,_)Q\G8E0U[@^=SY_R$3-].R,>CBS='9Y./P?D_MWTU^(T?C*8$W@]YSNO+U0K;FQFF'_UHT9*+RA@N98I%O2 M_!\,NGNW)Z/F2,=W6/%9)V>-;?O{31Q% ?W:*' E:Q/8[_[THO^J-[KK\Y1D M=,Z)YG/!%Y#3;"8, ^;VB&A AEU!>*FTATY$3I7-(A<'?B4K)K]4?XHJ,E8:W M%,EY]/1C]%C]=V4P_/<-^^O!]}$1&MP3H3?4.*U!\B6Y+-1"" \B% 2& $^@EF>:FY(ES$-LMP37%8)ASJ,9(O&Q/PP\,?C8& MAY^+04Y244"4$3#74>T ,$<7NO6>U&DP"&.+N!W(BL&;0)R6B'L .H$\DX) M@4?,(I9!BJ] 6>/!W.@:<,^<2.R@127!)"H "ZN.^/\2:C)2"K5PC0PU7PF MC'7YA6*A]QN\[+309AIG;GG[W"?#;C=>P W78L.^MW_>61J2-42 $E"I;F MQVVSXT)W2JCF#B00=!%+CL$D') 92V$RK(%F.7 D\B0^,V$2J4P%]9]M9(> M+:56L%V$8D.V 1R,]H\B97L+TJ8&=XE* ND6#1'J*@O{?-O1?}/>:?_*- M=55XE&+[!-FK!5X/)O3EP1VE:QVET!&.\R:DP0*3^Y=42?}/,%WIP.$KY_MN'90&E]39IMV_18:D%;GTVNT=&I*QI<"Z!-\,4H*Y@XZ3!4;P035 @<@?-9W MB:# EBJ#F=BM3>/2MJ-)93@X9(&6L5()BE(DE:3([C LY\1U1H<:7A^T90W\ MBCD:@%#?@7 ?B(4_ZX[@%J;C>S'}8/JZ!>V'$]^#$0ZK8BX8 I<:55!D M>&H]"@T$9 Z'#EU\B:Z8MH>H2R54]H+*"G8^!M.*$^21*EF7/ 2=89+T!V2(YO.$EKA\T 3GNH0SK3)3 Y=UO!@3?#9B3#6">MS*FL'(MAI'F:@GP4ZKMF3ML9,V:Z%PS%!)F&Y?79(7(>H0&N:5L5]Y14+=6;;-*^ZX MFLQS82WG_R4=Q J$!;YG OQSC6P#>H%]#;(I?*/&;I8<_[T2X+Y;7E61N!.(MG1^[L"? %PPZTO;J(3P0$<=:)>[886G%YBYO7:S>5>ISK=46AS M7O0HR-4;%W_PL('**(.*A]^8[$YXUEH5J@#&0%)V?/HWD/M-E<.,P RZP=09 M9./)VH_4_FS;I"/(X*D&$ND !+BC/@"1.\6NT=;Q"5 4P#-C{(A+A2^XW[F:2EN'@X3%V=PRLV\[5[<2P +@. M$B4E+0V/FA]M3S VF?\3-]X9P F J1VU<48KJYH"?QW!E:RAH0T/;X,EK1L(M6\0QZ^LM_X=2O$ZA&S_K_OM^)BQ;,2HF0=!*-2E;5=8M[D&#K>FK.VZFLG4C MHM4RAA0/KILY;)Z#A:9E% /M78+F+![;UFLWM/8*%E9/L*K'C>'VUSZJ#\M M^XX'%EJ-X?P"(WR"E74,/!*1HVH&*9WT=SL$+QJY!?.8H-1+*5;6JCSJ=Y'7 MW-D>>=%S_YYW4*$)U_^F?SV@;SH8GO0?/?O/ZN./>7T:'R=7/*F0=LBOL)\A M'S1H1A0.3HZ-,\%3>HT_,"\VZ;#;)738IIHW=]F=-#,R9#$N:'1M[1EK<]-&*]L MS122&>ME.\&1C6>,XPSI0!QBI2V?.F?I9%TYZ\3I%,?\^NZ=)$=V@3(,2:$E MB1_:V[?VJ0Q_LJQIFI TI!&\"%Z]ABQ8JF"D))B4+HFJD$ I%E)(575$K& M.3R7+%I2,^UCVVO308)_,)L&;RVDI]O+Z^!)&G.%!,IX8XS MO6A!*U$]\QUGO5[;ZZXMY-()KIQ$K7C/X4+DU(Y4U!H--03?*8E&PQ55!,*$ MR)RJ9ZWKX,SJ(X9BBM/1T*D_2]R%B#:C8<1N(%<;3I^U5D0N66HID?E=-U,# MI'3P>_GUEJS2"6^Y[H_#S(212Q=6IS&RC^R^_T[D&3+9 L3I6F^I)PH=D,U M[P;7D%,B_850R6!?P((G X.=L_<46:-YI;E^92F!E*R0Y1\O^-N>VS]Q\5<[@(R&F]Z6>,-RMF"< MJ8V?L"BB*=(^?M3ON-W!T-&(2)))]+0T5O546X6R)YFMO[JF\V!&RIL;A"\$C M/)S>)]BG@F[']H;.XIZT"C&+]-Q3ZUMPUX<4FTRO@O.S\\DX.)]=8#9>S:_`M%P$$,_#Z<&W/[8D-\^G$G'K=([<-XSF,3V>7P?3TX;1LZE5K<^(>P^P,@A=3 MF(^OGH\OIG-K]OO+Z1L83P)]TG'=SO_L#O]9Y(K%FQ+$4A2L?*^_G];G*80B M36FH:TA9YU5"X75!))K%-W!%,R$5B!A^+=ZS6Y@(B0!BT ^T'1UW8$[,=V]P MB'4?SH1<86.P7D,LI&'X;LLP0\5%!!0UBN"'7(J70Q4@R/8+D$#->]QM--J=A M(;&^H1-(&L'T%DMWBEUG(E8KEN=:"?S3F!'V'$BHI*CI@094NI7ZU\JUX;P- MEZ3@NIW<4)GCE:0YT]XQ$B8)HS'*0;FZF,(LCEE(Y=;^-N"5]FL;LD+F!4$ZM)1H)\OB1=_QT4.4'&D0BD>ENV,2N<'34(E]C)Y$+DM+._E?XO"&=%%IS"0LB(RF*ZI:&4=%3<0;?3M"PBN+C"78H?KA"EJ:0G43\5:$@1]E.?7[)<6=FDE M5GX#H@>&4M*!=VC":).F..D&'#?7O!VMBW M&IP%D_YOP'U?&'6^_'K9^SC_WP]WI^$T[]!3'-!_&Q1(75_!ZY7.#[]"_M]418-L/[G@L_F0YW0-N'[!E94JN<1DB,$Z!/;@2+JKO9[]N=WK;IEC#7S!KE MPWOSWX#17U!+ P04_" #V@0Y9'_UTY),% #&0 &'9U>FDM,C R M-# V,S!X97@S,F0R+FAT;>U9;7/;-@S^*YA[:Y,[Z\UV4D=V<^Q MT]V?=K1$65QH4;6H..ZO'TA)CNRU7:_79.U67_PB$ 0!'", #*,.?+&N2)B0- M:00O@E$5E9)Q#L\EBQ84P'/M0]OK'-BN M91T/4=:XVB12'_J.UW,Z;J<'[E/?_([7;AX!7M7P7C?<)],Q\';BTEY[,75 M\Y=G8VA9CO-;=^PX)\%)N="S70\"2=*<*292PAUGPX7(J1VI]'4\U!3\I"0Z'BZI(A F1.94/6M=!:=6'SD44YP> M#YWZN^2=BVA]/(S8#>1JS>FSUI+(!4LM)3*_ZV9J@#L=7-[AN;56+%*)[[GN MSX.,1!%+%Q:GL?(/['[_CB39(MG01&F:+RDGBMU0+;LA->242'\N5#+8/>!# M.[-Z7RQ29<5DR?C:?Q*P)D78 .1[J?6)-RQG<\:96OL)BR*:XM['C_H= MMSL8.IH1MV1?2T-%;Y5%.%N@^=J;.RK/MPY94>/PN> 1+DYN$]130;=C=X;. M_)ZT"C&+]-Q1ZUMPUX<4&T\N@[/3L_$H.)N>8S9>SJY&YP$$4_#Z<&7/[+$- ML\G8K'K=-[<-HQF,3J87P>3DX;1LZE5K<^0>PO04@A<3F(TNGX_.)S-K^OO+ MR5L8C0.]TG'=SO_L#O]9Y(K%ZY+$4CQ8^5Y_-ZW/4@A%FM)0UY"RSJN$PNN" M2#2+K^&29D{J$#&*=ZS6Q@+B01BV/>T'1UW8%;,;V^PCW4?3H5<(C!8KR$6MT@A\MQ&8H>(B HH:1?!KD5+H8B09C" YQ(S7>*.WS6A82*QOZ 221C"YQ=*=M(NJ,Q7+)\EPK@7^:,T+,@81*BIKN:4*E6ZE_K5P;SMKP"R*)@LLBSRGG;12*MA^C*"6]82.%"TIQI,YD3QPFC,9RR%.&1$0[3.$8FN?%'&_!*^[D-62'S0DM6 MHI$PCQ]YAT\'5;Z@@202F4;')G?%HZ,8Y1J[B9R3E.;6]);3-8Q"_@W*/B"\%9DSBG,A8RH?-9R6^@VSBLDW%SG&0FK:]PA\1W5QU2(MI^.WVE4KXZBHR7BC;T=(>&61L00!>[!*F**6/H'ZJ5A)@J2/ROR:^&DA:BNQM]!L4W4"4)^UY^\8].T;\6^H$&'I5PL<%QV0-Q3+C.OLV&2GINX))JMO#7,?D MK"H=7G>/8.Y+\-[VHOU-'-_E[R9WJV#VCKJ]@#06?%S(M,,3SMMD5;X !4:F\38P@5P%+Q-"(,"9,_,-2-CW&N(?C^@&8P=7/S/ S413M1GDEIPQV*Q2#2E,>^TP*0#CD2F\3+I5>M9G>^5GOAX)HDZ8PY08,-].\':F+\:D@5* MB[E8U3ZLKRV=B?X9;K-.YKG@A:*#.GR;YM8C9O7YZ1+QG1MF MDF.[6GZAA?>06;I)38*_0*B^"1:UX/:X63.]O]|TYIM^H]Y_T%U_.'7^]'Q2P:T'^Z_-QV_:8>>8-_FPZA8X"0+7J]\L/ =^K=N$4MT MO.]&\3,[PR9@)YNN:T["ZX4411KI#E%(OP:VQD/K[86JZ=]*<>>W*JNW:UN ML7PPOM4N;I$V3^$SLJ!6V9Z0&%M"G]P(%E5WL]^W.[T-"IFDM,C R-# V,SN>'-D4$L! A0#% @]H$.62 5*QH"#P M&,< !4 (!$!8 '9U>FDM,C R-# V,S!?8V%L+GAM;%!+ M 0(4 Q0 (/:!#ED,PRP*HC0)M_ P 5 " 44E !V M=7II+3(P,C0P-C,P7V1E9BYX;6QO2P$"% ,4 " #V@0Y9W2FOAIQI #. M#P8 %0 @ $:6@ =G5Z;2TR,#(T,#8S,%]L86(N>&UL4$L! M A0#% @]H$.6=^6CB]F3 15$% !4 (!Z<, '9U M>FDM,C R-# V,S!?<')E+GAM;%!+ 0(4 Q0 (/:!#EEFAM+7"?\! *@? M'0 5 " 8(0 0!V=7II+3(P,C0P-C,P>#$P<2YH=&U02P$" M% ,4 " #V@0Y9YP(V8HP("N* & @ &^#P, =G5Z M:2TR,#(T,#8S,'AE>#,Q9#$N:'1M4$L! A0#% @]H$.60H"HV";" M\RD !@ (!@!@# '9U>FDM,C R-# V,S!X97@S,60R+FAT M;5!+ 0(4 Q0 (/:!#EFV^U:B@P4 .(8 8 " 5$A M P!V=7II+3(P,C0P-C,P>&5X,S)D,2YH=&U02P$"% ,4 " #V@0Y9'_UT MY),% #&0 & @ $*)P, =G5Z:2TR,#(T,#8S,'AE>#,R <9#(N:'1M4$L%!@ * H I@(-,L P $! end XML 79 vuzi-20240630x10q_htm.xml IDEA: XBRL DOCUMENT 0001463972 us-gaap:SubsequentEventMember vuzi:AtomisticAgreementMember 2024-08-12 2024-08-12 0001463972 vuzi:AtomisticAgreementMember 2023-11-20 2023-11-20 0001463972 vuzi:OemProductAndWaveguideSalesMember 2024-01-01 2024-06-30 0001463972 vuzi:ExtendedWarrantiesMember 2024-01-01 2024-06-30 0001463972 2022-03-02 2022-03-02 0001463972 us-gaap:EmployeeStockOptionMember vuzi:LongTermIncentivePlan2021Member us-gaap:ShareBasedCompensationAwardTrancheOneMember 2021-03-17 2021-03-17 0001463972 2024-06-01 2024-06-30 0001463972 vuzi:PointInTimeMember 2024-04-01 2024-06-30 0001463972 vuzi:OverTimeInputMethodMember 2024-04-01 2024-06-30 0001463972 vuzi:PointInTimeMember 2024-01-01 2024-06-30 0001463972 vuzi:OverTimeInputMethodMember 2024-01-01 2024-06-30 0001463972 vuzi:PointInTimeMember 2023-04-01 2023-06-30 0001463972 vuzi:OverTimeInputMethodMember 2023-04-01

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vuzi:EquityMarketAndOperationalMilestonesFiveMember 2024-06-30 0001463972 vuzi:EquityMarketAndOperationalMilestonesEightMember 2024-06-30 0001463972 us-gaap:VariableInterestEntityNotPrimaryBeneficiaryMember 2024-01-01 2024-06-30 0001463972 2024-01-16 2024-01-16 0001463972 srt:ScenarioForecastMember 2024-05-01 2025-04-30 0001463972 srt:ScenarioForecastMember 2024-12-31 0001463972 vuzi:StockOptionTiedToEquityMarketAndOperationalMilestonesMember 2024-01-01 2024-06-30 0001463972 vuzi:EquityMarketCapitalizationTargetsMember 2024-01-01 2024-06-30 0001463972 vuzi:EquityMarketAndOperationalMilestonesTwoMember 2024-01-01 2024-06-30 0001463972 vuzi:EquityMarketAndOperationalMilestonesThreeMember 2024-01-01 2024-06-30 0001463972 vuzi:EquityMarketAndOperationalMilestonesSixMember 2024-01-01 2024-06-30 0001463972 vuzi:EquityMarketAndOperationalMilestonesSevenMember 2024-01-01 2024-06-30 0001463972 vuzi:EquityMarketAndOperationalMilestonesOneMember 2024-01-01 2024-06-30 0001463972 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Accordingly, the unaudited consolidated financial statements do not include all information and footnotes required by GAAP for complete financial statements. In the opinion of management, all adjustments considered necessary for a fair presentation have been included. The results of the Company’s operations for the three and six months ended June 30, 2024, are not necessarily indicative of the results of the Company’s operations for the full fiscal year or any other period. The accompanying interim consolidated financial statements should be read in conjunction with the audited consolidated financial statements and the notes thereto of the Company as of and for the year ended December 31, 2023, as reported in the Company’s Annual Report on Form 10-K filed with the SEC on April 15, 2024. - Customer Concentrations For the three months ended June 30, 2024, four customers represented 60% of total product revenue and one customer represented 86% of engineering services revenue. For the three months ended June 30, 2023, one customer represented 75% of total product revenue. For the six months ended June 30, 2024, three customers represented 37% of total product revenue and one customer represented 82% of engineering services revenue. For the six months ended June 30, 2023, two customers represented 75% of total product revenue. As of June 30, 2024, three customers represented 93% of accounts receivable. As of December 31, 2023, two customers represented 73% of accounts receivable. Fair Value of Financial Instruments - The Company’s financial instruments primarily consist of cash and cash equivalents, accounts receivable, accounts payable, unearned revenue, accrued expenses, and income and other taxes payable. As of the consolidated balance sheet dates, the estimated fair values of the financial instruments were not materially different from their carrying values as presented due to the short maturities of these instruments. Going Concern   The accompanying consolidated financial statements have been prepared assuming that the Company will continue as a going concern. This basis of accounting contemplates the recovery of our assets and the satisfaction of liabilities in the normal course of business. These consolidated financial statements do not include any adjustments to the specific amounts and classifications of assets and liabilities, which might be necessary should we be unable to continue as a going concern. - The Financial Accounting Standards Board (FASB) issued Accounting Standards Update No. (ASU) 2014- 15, Presentation of Financial Statements — Going Concern (Subtopic 205-40): Disclosure of Uncertainties about an Entity’s Ability to Continue as a Going Concern. As a result, management is primarily responsible for assessing if there is a going concern issue when issuing an entity’s financial statements. The going concern assumption underlies all GAAP financial reporting and therefore requires and assumes that the financial statements have been prepared on a going concern basis. It presumes that a Company will continue normal business operations into the future. - Additional disclosure is required when there is substantial doubt about business continuity or substantial doubt that has not been alleviated by management’s mitigation plans. As required under applicable accounting standards, management has concluded that substantial doubt may exist surrounding the

Company's ability to meet its obligations within one year of the release of the financial statements. The Company incurred net losses for the six months ended June 30, 2024 of $50,659,775; $50,149,077 for the year ended December 31, 2023; and $40,763,573 for the year ended December 31, 2022. The Company had net cash outflows from operations of $14,440,335 for the six months ended June 30, 2024; $26,277,824 for the year ended December 31, 2023; and $24,521,082 for the year ended December 31, 2022. As of June 30, 2024, the Company had an accumulated deficit of $344,644,568. The Company's cash outflows for investing activities were $2,234,041 for the six months ended June 30, 2024; $19,280,966 for the year ended December 31, 2023; and $21,170,816 for the year ended December 31, 2022. These factors initially raise substantial doubt about the Company's ability to continue as a going concern. Management's plans to alleviate the conditions that raise substantial doubt include the implementation of operational improvements and the curtailment of certain development programs, both of which the Company expects will preserve cash. The Company's cash requirements going forward are primarily for funding operating losses, research and development, working capital and capital expenditures. The higher cash outflows for investments in the years ending December 31, 2023 and 2022 were mainly for the Company's exclusive technology license and equity investment in microLED technology via Atomistic (see Notes 6 and 7). The Company paid $32,500,000 to Atomistic in the last two fiscal years. The Company's license was terminated on July 1, 2024. As a result, the Company will not be paying further licensing development fees to Atomistic. Our cash requirements related to funding operating losses depend upon numerous factors, including new product development activities, our ability to commercialize our products, our products' timely market acceptance, selling prices and gross margins, and other factors. Historically, the Company has met its cash needs primarily through the sale of equity securities. The Company's management intends to take actions necessary to continue as a going concern, as discussed herein. The Company will need to grow its business significantly to become profitable and self-sustaining on a cash flow basis or it will be required to cut its operating costs significantly or raise new equity and/or debt capital. Management's plans concerning these matters and managing our liquidity include, among other things: <table style="border-collapse:collapse;font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin-bottom:0pt;margin-top:0pt;table-layout:fixed;text-align:justify;width:100%;border:0pt;"><tr><td style="width:18pt;"></td><td style="font-family:'Times New Roman','Times','serif';font-size:10pt;vertical-align:text-top;white-space:nowrap;width:18pt;padding:0pt;">●</td><td style="padding:0pt;">Reductions in our cash annual operating expenses by approximately $8,000,000 for 2024 across all operating areas, representing a reduction of at least 20% as compared to 2023 levels, including the areas of Research and Development, Sales and Marketing and General and Administrative;</td></tr></table><table style="border-collapse:collapse;font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin-bottom:0pt;margin-top:0pt;table-layout:fixed;text-align:justify;width:100%;border:0pt;"><tr><td style="width:18pt;"></td><td style="font-family:'Times New Roman','Times','serif';font-size:10pt;vertical-align:text-top;white-space:nowrap;width:18pt;padding:0pt;">●</td><td style="padding:0pt;">Implementation of a voluntary Company-wide payroll reduction program for all individuals with optional salary reductions of 10% to 50% depending upon the respective base salary level for the period running from May 1, 2024 to April 30, 2025. The expected cash savings will be approximately $2,100,000 and will result in the issuance of stock awards or stock options, at a rate of 150% or 200%, respectively, of the net cash wage reductions;</td></tr></table><table style="border-collapse:collapse;font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin-bottom:0pt;margin-top:0pt;table-layout:fixed;text-align:justify;width:100%;border:0pt;"><tr><td style="width:18pt;"></td><td style="font-family:'Times New Roman','Times','serif';font-size:10pt;vertical-align:text-top;white-space:nowrap;width:18pt;padding:0pt;">●</td><td style="padding:0pt;">After the impact

of payroll reduction program for equity and two major rounds of staff reductions, including another round at the end of June 2024, the Company's current weekly gross cash salary costs are now approximately $162,000 versus $263,000 at the beginning of 2024, a decrease of $101,000 per week or 38.4% (or a total of $5,252,000 on an annual basis);</td></tr></table><table style="border-collapse:collapse;font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin-bottom:0pt;margin-top:0pt;table-layout:fixed;text-align:justify;width:100%;border:0pt;"><tr><td style="width:18pt;"></td><td style="font-family:'Times New Roman','Times','serif';font-size:10pt;vertical-align:text-top;white-space:nowrap;width:18pt;padding:0pt;">●</td><td style="padding:0pt;">Right-sizing of operations across all areas of the Company, including head-count hiring freezes or head-count reductions;</td></tr></table><table style="border-collapse:collapse;font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin-bottom:0pt;margin-top:0pt;table-layout:fixed;text-align:justify;width:100%;border:0pt;"><tr><td style="width:18pt;"></td><td style="font-family:'Times New Roman','Times','serif';font-size:10pt;vertical-align:text-top;white-space:nowrap;width:18pt;padding:0pt;">●</td><td style="padding:0pt;">Further reductions in the rate of research and development spending on new technologies, particularly the use of external contractors;</td></tr></table><table style="border-collapse:collapse;font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin-bottom:0pt;margin-top:0pt;table-layout:fixed;text-align:justify;width:100%;border:0pt;"><tr><td style="width:18pt;"></td><td style="font-family:'Times New Roman','Times','serif';font-size:10pt;vertical-align:text-top;white-space:nowrap;width:18pt;padding:0pt;">●</td><td style="padding:0pt;">Delaying or curtailing discretionary and non-essential capital expenditures not related to near-term product and manufacturing needs and reducing other investing activities for our 2024 fiscal year as compared to 2023 and </td></tr></table><table style="border-collapse:collapse;font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin-bottom:0pt;margin-top:0pt;table-layout:fixed;text-align:justify;width:100%;border:0pt;"><tr><td style="width:18pt;"></td><td style="font-family:'Times New Roman','Times','serif';font-size:10pt;vertical-align:text-top;white-space:nowrap;width:18pt;padding:0pt;"></td><td style="padding:0pt;">2022, now that our waveguide manufacturing plant expansion has substantially been completed and the license fees payments under the Atomistic License have been completed; </td></tr></table><table style="border-collapse:collapse;font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin-bottom:0pt;margin-top:0pt;table-layout:fixed;text-align:justify;width:100%;border:0pt;"><tr><td style="width:18pt;"></td><td style="font-family:'Times New Roman','Times','serif';font-size:10pt;vertical-align:text-top;white-space:nowrap;width:18pt;padding:0pt;">●</td><td style="padding:0pt;">The expected margin contribution upon the commencement of volume manufacturing and sales of waveguides from our new waveguide manufacturing plant, particularly to OEM customers;</td></tr></table><table style="border-collapse:collapse;font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin-bottom:0pt;margin-top:0pt;table-layout:fixed;text-align:justify;width:100%;border:0pt;"><tr><td style="width:18pt;"></td><td style="font-family:'Times New Roman','Times','serif';font-size:10pt;vertical-align:text-top;white-space:nowrap;width:18pt;padding:0pt;">●</td><td style="padding:0pt;">Continued pursuit of licensing and strategic opportunities around our waveguide technologies with potential OEMs, which would include the receipt of upfront licensing fees and on-going supply agreements;</td></tr></table><table style="border-collapse:collapse;font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin-bottom:0pt;margin-top:0pt;table-layout:fixed;text-align:justify;width:100%;border:0pt;"><tr><td style="width:18pt;"></td><td style="font-family:'Times New Roman','Times','serif';font-size:10pt;vertical-align:text-top;white-space:nowrap;width:18pt;padding:0pt;">●</td><td style="padding:0pt;">Reduction in the rate of new product introductions and further leveraging of existing platforms to reduce new product development and engineering costs; and</td></tr></table><table style="border-collapse:collapse;font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin-bottom:0pt;margin-top:0pt;table-layout:fixed;text-align:justify;width:100%;border:0pt;"><tr><td style="width:18pt;"></td><td style="font-family:'Times New Roman','Times','serif';font-size:10pt;vertical-align:text-top;white-space:nowrap;width:18pt;padding:0pt;">●</td><td style="padding:0pt;">Reduction in our existing products selling prices and higher volume discount levels to turn as much of our inventory of finished products into cash and pursue external manufacturers for Vuzix non-waveguide production needs. </td></tr></table> <p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:justify;text-indent:18pt;margin:0pt;">The Company has historically sold equity securities and currently has a new Registration Statement on Form S-3 that became effective in May 2024, which includes a sales agreement with an investment banking firm for the issuance and sale of up to $50,000,000 of our common stock that may be issued and sold from time to time in an

“at the market” offering. Management monitors the capital markets on an ongoing basis and may consider raising capital if favorable market conditions develop. If the Company’s actual results are less than projected or the Company needs to raise capital for additional liquidity, the Company may be required to pursue additional equity financings, further curtail expenses, or enter into one or more strategic transactions. However, management can make no assurance that the Company will be able to successfully complete any of the forementioned pursuits on terms acceptable to the Company, or at all. x While there can be no assurance the Company will be able to successfully reduce operating expenses or raise additional capital, management believes its historical ability to manage its cash flows and to obtain capital will continue into the foreseeable future. However, as a result of this uncertainty, doubt about the Company continuing as a going concern has not been fully alleviated to the satisfaction of its external auditors as noted in their audit report included with to the Company’s 10-K filed with the SEC on April 15, 2024. x Use of Estimates x The preparation of the consolidated financial statements in conformity with accounting principles generally accepted in the United States requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at year-end and the reported amounts of revenue and expenses during the reporting period. Actual results could differ from those estimates. Variable Interest Entities The Company determines at the inception of each arrangement whether an entity in which it has made an investment or in which the Company has other variable interests is considered a variable interest entity (VIE). The Company consolidates VIEs when it is the primary beneficiary. The Company is the primary beneficiary of a VIE when it has the power to direct activities that most significantly affect the economic performance of the VIE and have the obligation to absorb the majority of their losses or benefits. If the Company is not the primary beneficiary in a VIE, the Company accounts for the investment or other variable interests in a VIE in accordance with applicable GAAP. At each reporting period, the Company assesses whether any changes in our interest or relationship with the entity affect our determination of whether the entity is a VIE and, if so, whether the Company is the primary beneficiary. We have an investment in a VIE, Atomistic, in which we are not the primary beneficiary. This VIE includes a private company investment, described further in Notes 6 and 7. We have determined that the governance and operating structures of this entity do not allow us to direct the activities that would significantly affect their economic performance. Therefore, we are not the primary beneficiary, and the results of operations and financial position of this VIE are not included in our consolidated financial statements. We had accounted for this investment as a technology license and an equity investment. The maximum exposure of this unconsolidated VIE is generally based on the current carrying value of the investment. We have determined that the single source of our exposure to this VIE was our capital investment in them. The carrying value and maximum exposure of this unconsolidated VIE was $31.8 million as of March 31, 2024; however, as of June 30, 2024, the carrying value of these investments of $30.1 million was written-off due to the termination of the Company’s exclusive license. Refer to Notes 6 and 7 for further details. Recent Accounting Pronouncements Not Yet Adopted In December 2023, the FASB issued ASU 2023-09 "Income Taxes (Topics 740): Improvements to Income Tax Disclosures" to expand the disclosure requirements for income taxes, specifically related to the rate reconciliation and income taxes paid. ASU 2023-09 is effective for our annual periods beginning January 1, 2025, with early adoption permitted. We are currently evaluating the potential effect that the updated standard will have on our financial statement disclosures. x The accompanying unaudited consolidated financial statements of Vuzix Corporation (“the Company” or “Vuzix”) have been prepared in accordance with generally accepted accounting principles in the United States of America (“GAAP”) for interim financial information and with the instructions to Form 10-Q and Regulation S-X of the Securities and Exchange Commission (the “SEC”). Accordingly, the unaudited consolidated financial statements do not include all information and footnotes required by GAAP for complete financial statements. In the opinion of management, all adjustments considered necessary for a fair presentation have been included. The results of the Company’s operations for the three and six months ended June 30, 2024, are not necessarily indicative of the results of the Company’s operations for the full fiscal year or any other period. The accompanying interim consolidated financial statements should be read in conjunction with the audited consolidated financial statements and the notes thereto of the Company as of and for the year ended December 31, 2023, as reported in the Company’s Annual Report on Form 10-K filed with the SEC on April 15, 2024. Customer Concentrations For the three months ended June 30, 2024, four customers represented 60% of total product revenue and one customer represented 86% of engineering services revenue. For the three months ended June 30, 2023, one

customer represented 75% of total product revenue. For the six months ended June 30, 2024, three customers represented 37% of total product revenue and one customer represented 82% of engineering services revenue. For the six months ended June 30, 2023, two customers represented 75% of total product revenue. As of June 30, 2024, three customers represented 93% of accounts receivable. As of December 31, 2023, two customers represented 73% of accounts receivable. 4 0.60 1 0.86 1 0.75 3 0.37 1 0.82 2 0.75 3 0.93 2 0.73 Fair Value of Financial Instruments The Company's financial instruments primarily consist of cash and cash equivalents, accounts receivable, accounts payable, unearned revenue, accrued expenses, and income and other taxes payable. As of the consolidated balance sheet dates, the estimated fair values of the financial instruments were not materially different from their carrying values as presented due to the short maturities of these instruments. Going Concern   The accompanying consolidated financial statements have been prepared assuming that the Company will continue as a going concern. This basis of accounting contemplates the recovery of our assets and the satisfaction of liabilities in the normal course of business. These consolidated financial statements do not include any adjustments to the specific amounts and classifications of assets and liabilities, which might be necessary should we be unable to continue as a going concern. The Financial Accounting Standards Board (FASB) issued Accounting Standards Update No. (ASU) 2014- 15, Presentation of Financial Statements — Going Concern (Subtopic 205-40): Disclosure of Uncertainties about an Entity's Ability to Continue as a Going Concern. As a result, management is primarily responsible for assessing if there is a going concern issue when issuing an entity's financial statements. The going concern assumption underlies all GAAP financial reporting and therefore requires and assumes that the financial statements have been prepared on a going concern basis. It presumes that a Company will continue normal business operations into the future. Additional disclosure is required when there is substantial doubt about business continuity or substantial doubt that has not been alleviated by management's mitigation plans. As required under applicable accounting standards, management has concluded that substantial doubt may exist surrounding the Company's ability to meet its obligations within one year of the release of the financial statements. The Company incurred net losses for the six months ended June 30, 2024 of $50,659,775; $50,149,077 for the year ended December 31, 2023; and $40,763,573 for the year ended December 31, 2022. The Company had net cash outflows from operations of $14,440,335 for the six months ended June 30, 2024; $26,277,824 for the year ended December 31, 2023; and $24,521,082 for the year ended December 31, 2022. As of June 30, 2024, the Company had an accumulated deficit of $344,644,568. The Company's cash outflows for investing activities were $2,234,041 for the six months ended June 30, 2024; $19,280,966 for the year ended December 31, 2023; and $21,170,816 for the year ended December 31, 2022. These factors initially raise substantial doubt about the Company's ability to continue as a going concern. Management's plans to alleviate the conditions that raise substantial doubt include the implementation of operational improvements and the curtailment of certain development programs, both of which the Company expects will preserve cash. The Company's cash requirements going forward are primarily for funding operating losses, research and development, working capital and capital expenditures. The higher cash outflows for investments in the years ending December 31, 2023 and 2022 were mainly for the Company's exclusive technology license and equity investment in microLED technology via Atomistic (see Notes 6 and 7). The Company paid $32,500,000 to Atomistic in the last two fiscal years. The Company's license was terminated on July 1, 2024. As a result, the Company will not be paying further licensing development fees to Atomistic. Our cash requirements related to funding operating losses depend upon numerous factors, including new product development activities, our ability to commercialize our products, our products' timely market acceptance, selling prices and gross margins, and other factors. Historically, the Company has met its cash needs primarily through the sale of equity securities. The Company's management intends to take actions necessary to continue as a going concern, as discussed herein. The Company will need to grow its business significantly to become profitable and self-sustaining on a cash flow basis or it will be required to cut its operating costs significantly or raise new equity and/or debt capital.

Management's plans concerning these matters and managing our liquidity include, among other things: </p> <table style="border-collapse:collapse;font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin-bottom:0pt;margin-top:0pt;table-layout:fixed;text-align:justify;width:100%;border:0pt;"><tr><td style="width:18pt;"></td><td style="font-family:'Times New Roman','Times','serif';font-size:10pt;vertical-align:text-top;white-space:nowrap;width:18pt;padding:0pt;">●</td><td style="padding:0pt;">Reductions in our cash annual operating expenses by approximately $8,000,000 for 2024 across all operating areas, representing a reduction of at least 20% as compared to 2023 levels, including the areas of Research and Development, Sales and Marketing and General and Administrative;</td></tr></table><table style="border-collapse:collapse;font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin-bottom:0pt;margin-top:0pt;table-layout:fixed;text-align:justify;width:100%;border:0pt;"><tr><td style="width:18pt;"></td><td style="font-family:'Times New Roman','Times','serif';font-size:10pt;vertical-align:text-top;white-space:nowrap;width:18pt;padding:0pt;">●</td><td style="padding:0pt;">Implementation of a voluntary Company-wide payroll reduction program for all individuals with optional salary reductions of 10% to 50% depending upon the respective base salary level for the period running from May 1, 2024 to April 30, 2025. The expected cash savings will be approximately $2,100,000 and will result in the issuance of stock awards or stock options, at a rate of 150% or 200%, respectively, of the net cash wage reductions;</td></tr></table><table style="border-collapse:collapse;font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin-bottom:0pt;margin-top:0pt;table-layout:fixed;text-align:justify;width:100%;border:0pt;"><tr><td style="width:18pt;"></td><td style="font-family:'Times New Roman','Times','serif';font-size:10pt;vertical-align:text-top;white-space:nowrap;width:18pt;padding:0pt;">●</td><td style="padding:0pt;">After the impact of payroll reduction program for equity and two major rounds of staff reductions, including another round at the end of June 2024, the Company's current weekly gross cash salary costs are now approximately $162,000 versus $263,000 at the beginning of 2024, a decrease of $101,000 per week or 38.4% (or a total of $5,252,000 on an annual basis);</td></tr></table><table style="border-collapse:collapse;font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin-bottom:0pt;margin-top:0pt;table-layout:fixed;text-align:justify;width:100%;border:0pt;"><tr><td style="width:18pt;"></td><td style="font-family:'Times New Roman','Times','serif';font-size:10pt;vertical-align:text-top;white-space:nowrap;width:18pt;padding:0pt;">●</td><td style="padding:0pt;">Right-sizing of operations across all areas of the Company, including head-count hiring freezes or head-count reductions;</td></tr></table><table style="border-collapse:collapse;font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin-bottom:0pt;margin-top:0pt;table-layout:fixed;text-align:justify;width:100%;border:0pt;"><tr><td style="width:18pt;"></td><td style="font-family:'Times New Roman','Times','serif';font-size:10pt;vertical-align:text-top;white-space:nowrap;width:18pt;padding:0pt;">●</td><td style="padding:0pt;">Further reductions in the rate of research and development spending on new technologies, particularly the use of external contractors;</td></tr></table><table style="border-collapse:collapse;font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin-bottom:0pt;margin-top:0pt;table-layout:fixed;text-align:justify;width:100%;border:0pt;"><tr><td style="width:18pt;"></td><td style="font-family:'Times New Roman','Times','serif';font-size:10pt;vertical-align:text-top;white-space:nowrap;width:18pt;padding:0pt;">●</td><td style="padding:0pt;">Delaying or curtailing discretionary and non-essential capital expenditures not related to near-term product and manufacturing needs and reducing other investing activities for our 2024 fiscal year as compared to 2023 and </td></tr></table><table style="border-collapse:collapse;font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin-bottom:0pt;margin-top:0pt;table-layout:fixed;text-align:justify;width:100%;border:0pt;"><tr><td style="width:18pt;"></td><td style="font-

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Management monitors the capital markets on an ongoing basis and may consider raising capital if favorable market conditions develop. If the Company's actual results are less than projected or the Company needs to raise capital for additional liquidity, the Company may be required to pursue additional equity financings, further curtail expenses, or enter into one or more strategic transactions. However, management can make no assurance that the Company will be able to successfully complete any of the forementioned pursuits on terms acceptable to the Company, or at all. While there can be no assurance the Company will be able to successfully reduce operating expenses or raise additional capital, management believes its historical ability to manage its cash flows and to obtain capital will continue into the foreseeable future. However, as a result of this uncertainty, doubt about the Company continuing as a going concern has not been fully alleviated to the satisfaction of its external auditors as noted in their audit report included with to the Company's 10-K filed with the SEC on April 15, 2024. Going Concern The accompanying consolidated financial statements have been prepared assuming that the Company will continue as a going concern. This basis of accounting contemplates the recovery of our assets and the satisfaction of liabilities in the normal course of business. These consolidated financial statements do not include any adjustments to the specific amounts and classifications of assets and liabilities, which might be necessary should we be unable to continue as a going concern. 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statements. The Company incurred net losses for the six months ended June 30, 2024 of $50,659,775; $50,149,077 for the year ended December 31, 2023; and $40,763,573 for the year ended December 31, 2022. The Company had net cash outflows from operations of $14,440,335 for the six months ended June 30, 2024; $26,277,824 for the year ended December 31, 2023; and $24,521,082 for the year ended December 31, 2022. As of June 30, 2024, the Company had an accumulated deficit of $344,644,568. The Company's cash outflows for investing activities were $2,234,041 for the six months ended June 30, 2024; $19,280,966 for the year ended December 31, 2023; and $21,170,816 for the year ended December 31, 2022. These factors initially raise substantial doubt about the Company's ability to continue as a going concern. Management's plans to alleviate the conditions that raise substantial doubt include the implementation of operational improvements and the curtailment of certain development programs, both of which the Company expects will preserve cash. The Company's cash requirements going forward are primarily for funding operating losses, research and development, working capital and capital expenditures. The higher cash outflows for investments in the years ending December 31, 2023 and 2022 were mainly for the Company's exclusive technology license and equity investment in microLED technology via Atomistic (see Notes 6 and 7). The Company paid $32,500,000 to Atomistic in the last two fiscal years. The Company's license was terminated on July 1, 2024. As a result, the Company will not be paying further licensing development fees to Atomistic. Our cash requirements related to funding operating losses depend upon numerous factors, including new product development activities, our ability to commercialize our products, our products' timely market acceptance, selling prices and gross margins, and other factors. Historically, the Company has met its cash needs primarily through the sale of equity securities. The Company's management intends to take actions necessary to continue as a going concern, as discussed herein. The Company will need to grow its business significantly to become profitable and self-sustaining on a cash flow basis or it will be required to cut its operating costs significantly or raise new equity and/or debt capital. Management's plans concerning these matters and managing our liquidity include, among other things: <table style="border-collapse:collapse;font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin-bottom:0pt;margin-top:0pt;table-layout:fixed;text-align:justify;width:100%;border:0pt;"><tr><td style="width:18pt;"></td><td style="font-family:'Times New Roman','Times','serif';font-size:10pt;vertical-align:text-top;white-space:nowrap;width:18pt;padding:0pt;">●</td><td style="padding:0pt;">Reductions in our cash annual operating expenses by approximately $8,000,000 for 2024 across all operating areas, representing a reduction of at least 20% as compared to 2023 levels, including the areas of Research and Development, Sales and Marketing and General and Administrative;</td></tr></table><table style="border-collapse:collapse;font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin-bottom:0pt;margin-top:0pt;table-layout:fixed;text-align:justify;width:100%;border:0pt;"><tr><td style="width:18pt;"></td><td style="font-family:'Times New Roman','Times','serif';font-size:10pt;vertical-align:text-top;white-space:nowrap;width:18pt;padding:0pt;">●</td><td style="padding:0pt;">Implementation of a voluntary Company-wide payroll reduction program for all individuals with optional salary reductions of 10% to 50% depending upon the respective base salary level for the period running from May 1, 2024 to April 30, 2025. The expected cash savings will be approximately $2,100,000 and will result in the issuance of stock awards or stock options, at a rate of 150% or 200%, respectively, of the net cash wage reductions;</td></tr></table><table style="border-collapse:collapse;font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin-bottom:0pt;margin-top:0pt;table-layout:fixed;text-align:justify;width:100%;border:0pt;"><tr><td style="width:18pt;"></td><td style="font-family:'Times New Roman','Times','serif';font-size:10pt;vertical-align:text-top;white-space:nowrap;width:18pt;padding:0pt;">●</td><td style="padding:0pt;">After the impact of payroll reduction program for equity and two major rounds of staff reductions, including another round at the

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Variable Interest Entities The Company determines at the inception of each arrangement whether an entity in which it has made an investment or in which the Company has other variable interests is considered a variable interest entity (VIE). The Company consolidates VIEs when it is the primary beneficiary. The Company is the primary beneficiary of a VIE when it has the power to direct activities that most significantly affect the economic performance of the VIE and have the obligation to absorb the majority of their losses or benefits. If the Company is not the primary beneficiary in a VIE, the Company accounts for the investment or other variable interests in a VIE in accordance with applicable GAAP. At each reporting period, the Company assesses whether any changes in our interest or relationship with the entity affect our determination of whether the entity is a VIE and, if so, whether the Company is the primary beneficiary. We have an investment in a VIE, Atomistic, in which we are not the primary beneficiary. This VIE includes a private company investment, described further in Notes 6 and 7. We have determined that the governance and operating structures of this entity do not allow us to direct the activities that would significantly affect their economic performance. Therefore, we are not the primary beneficiary, and the results of operations and financial position of this VIE are not included in our consolidated financial statements. We had accounted for this investment as a technology license and an equity investment. The maximum exposure of this unconsolidated VIE is generally based on the current carrying value of the investment. We have determined that the single source of our exposure to this VIE was our capital investment in them. The carrying value and maximum exposure of this unconsolidated VIE was $31.8 million as of March 31, 2024; however, as of June 30, 2024, the carrying value of these investments of $30.1 million was written-off due to the termination of the Company's exclusive license. Refer to Notes 6 and 7 for further details. 31800000 30100000 Recent Accounting Pronouncements Not Yet Adopted In December 2023, the FASB issued ASU 2023-09 "Income Taxes (Topics 740): Improvements to Income Tax Disclosures" to expand the disclosure requirements for income taxes, specifically related to the rate reconciliation and income taxes paid. ASU 2023-09 is effective for our annual periods beginning January 1, 2025, with early adoption permitted. We are currently evaluating the potential effect that the updated standard will have on our financial statement disclosures. - Note 2 – Revenue Recognition and Contracts with Customers Disaggregated Revenue The Company's total revenue was comprised of two major product lines: Smart Glasses Sales and Engineering Services. The following table summarizes the revenue recognized by major product line: - <table style="border-collapse:collapse;font-size:16pt;height:max-content;padding-left:0pt;padding-right:0pt;width:100%;"><tr style="height:1pt;"><td style="vertical-align:bottom;width:50.13%;margin:0pt;padding:0pt;"> - </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> - </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;margin:0pt;padding:0pt;"><div

style="height:1pt;overflow:hidden;overflow-wrap:break-word;position:relative;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:50.13%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;">   </td><td colspan="5" style="vertical-align:bottom;white-space:nowrap;width:22.46%;margin:0pt;padding:0pt;"> Three Months Ended </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;">   </td><td colspan="5" style="vertical-align:bottom;white-space:nowrap;width:22.46%;margin:0pt;padding:0pt;"> Six Months Ended </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;">   </td></tr><tr><td style="vertical-align:bottom;width:50.13%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;">   </td><td colspan="5" style="vertical-align:bottom;white-space:nowrap;width:22.46%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> June 30, </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;">   </td><td colspan="5" style="vertical-align:bottom;white-space:nowrap;width:22.46%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"><p style="font-

family:'Times New Roman','Times','serif';font-size:8pt;line-height:1.19;text-align:center;margin:0pt;">June 30, </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;">   </td></tr><tr><td style="vertical-align:bottom;width:50.13%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;">   </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:10.4%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2024 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;">   </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:10.4%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2023 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;">   </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:10.4%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2024 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;">   </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:10.4%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2023 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;">   </td></tr><tr><td style="vertical-align:bottom;width:50.13%;margin:0pt;padding:0pt;"> Revenues </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;">   </td></tr><tr><td style="vertical-align:bottom;width:50.13%;background:#cceeff;margin:0pt;padding:0pt;"> Products Sales </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;">   </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;background:#cceeff;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0pt 0pt;">601,263</p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;"> </p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-

*family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0pt 0pt;">4,425,162 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;background:#cceeff;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0pt 0pt;">2,430,336</p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;">.</p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;background:#cceeff;margin:0pt;padding:0pt;"> 8,616,523 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> . </td></tr><tr><td style="vertical-align:bottom;width:50.13%;margin:0pt;padding:0pt;"> Engineering Services </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 491,308 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 265,673 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 666,102 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 265,673 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> . </td></tr><tr><td style="vertical-align:bottom;width:50.13%;background:#cceeff;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;background:#cceeff;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;background:#cceeff;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;background:#cceeff;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;background:#cceeff;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> . *

</td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:50.13%;margin:0pt;padding:0pt;"> Total Revenue </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0pt 0pt;"> 1,092,571</p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;"></p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 4,690,835 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0pt 0pt;"> 3,096,438</p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;"></p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 8,882,196 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td></tr></table> Significant Judgments Under Topic 606 “Revenue from Contracts with Customers”, we use judgments that could potentially impact both the timing of our satisfaction of performance obligations and our determination of transaction prices used in determining revenue recognized by major product line. Such judgments include considerations in determining our transaction prices and when our performance obligations are satisfied for our standard product sales. For our Engineering Services, performance obligations are recognized over time using the input method, and the estimated costs to complete each project are considered significant judgments. Performance Obligations Revenues from our performance obligations are typically satisfied at a point-in-time for Smart Glasses, Waveguides and Display Engines, and our OEM Products, which are recognized when the customer obtains control and ownership, which is generally upon shipment. The Company considers shipping and handling activities performed to be fulfillment activities and not a separate performance obligation. The Company also records revenue for performance obligations relating to our Engineering Services over time by using the input method measuring progress toward satisfying the performance obligations. Satisfaction of our performance obligations related to our Engineering Services is measured by the Company’s costs incurred as a percentage of total expected costs to project completion, as the inputs of actual costs incurred by the Company are directly correlated with progress toward completing the contract. As such, the Company believes that our methodologies for recognizing revenue over time for our Engineering Services correlate directly with the transfer of control of the underlying assets to our customers. Our standard product sales

include a twelve (12) month assurance-type product warranty. In the case of certain OEM products and waveguide sales, some include a standard product warranty of up to eighteen (18) months to allow distribution channels to offer the end customer a full twelve (12) months of coverage. We offer extended warranties to customers which extend the standard product warranty on product sales for an additional twelve (12) month period. All revenue related to extended product warranty sales is deferred and recognized over the extended warranty period. Our Engineering Services contracts vary from contract to contract but typically include payment terms of Net 30 days from the date of billing, subject to an agreed upon customer acceptance period. As of June 30, 2024 and 2023, there were no outstanding performance obligations remaining for extended warranties. The following table presents a summary of the Company’s sales by revenue recognition method as a percentage of total net sales for the three and six months ended June 30, 2024 and 2023: <table style="border-collapse:collapse;font-size:16pt;height:max-content;margin-left:auto;margin-right:auto;padding-left:0pt;padding-right:0pt;width:100%;"><tr style="height:1pt;"><td style="vertical-align:bottom;width:48.98%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.37%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.03%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:48.98%;margin:0pt;padding:0pt;">

</td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td colspan="4" style="vertical-align:bottom;width:23.49%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> Three Months Ended
June 30, </td><td style="vertical-align:bottom;white-space:nowrap;width:2.37%;margin:0pt;padding:0pt;"> . </td><td colspan="3" style="vertical-align:bottom;width:21.78%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> Six Months Ended
June 30, </td><td style="vertical-align:bottom;width:1.72%;margin:0pt;padding:0pt;"> . </td></tr><tr><td style="vertical-align:bottom;width:48.98%;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2024 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2023 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.37%;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2024 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.03%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2023 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:48.98%;background:#cceeff;margin:0pt;padding:0pt;"> Point-in-Time </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;background:#cceeff;margin:0pt;padding:0pt;"> 55 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;background:#cceeff;margin:0pt;padding:0pt;"> % </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;background:#cceeff;margin:0pt;padding:0pt;"> 94 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;background:#cceeff;margin:0pt;padding:0pt;"> % </td><td style="vertical-align:bottom;white-space:nowrap;width:2.37%;background:#cceeff;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;background:#cceeff;margin:0pt;padding:0pt;"> 78 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;background:#cceeff;margin:0pt;padding:0pt;"> % </td><td style="vertical-align:bottom;white-space:nowrap;width:10.03%;background:#cceeff;margin:0pt;padding:0pt;"> 97 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;background:#cceeff;margin:0pt;padding:0pt;"> % </td></tr><tr><td style="vertical-align:bottom;width:48.98%;margin:0pt;padding:0pt;"> Over Time – Input Method </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"><p style="font-

family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 45 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> % </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 6 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> % </td><td style="vertical-align:bottom;white-space:nowrap;width:2.37%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 22 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> % </td><td style="vertical-align:bottom;white-space:nowrap;width:10.03%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 3 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> % </td></tr><tr><td style="vertical-align:bottom;width:48.98%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.37%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.03%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;background:#cceeff;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:48.98%;margin:0pt;padding:0pt;"> Total </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 100 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> % </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 100 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> % </td><td style="vertical-align:bottom;white-space:nowrap;width:2.37%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 100 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> % </td><td style="vertical-align:bottom;white-space:nowrap;width:10.03%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-

height:1.19;text-align:right;margin:0pt 3pt 0pt 0pt;">100 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> % </td></tr></table> . Remaining Performance Obligations As June 30, 2024, the Company had $2,359,904 of remaining performance obligations under a current waveguide development project, including initial product production, which represents the remainder of transaction prices totaling $3,500,000 under this development project, which commenced in 2023, less revenue recognized under percentage of completion to date. The Company expects to recognize the remaining revenue related to this project based upon expected due dates, in the amounts of 18% in 2024 and 82% in 2025. Revenues earned less amounts invoiced at June 30, 2024 was $290,096 and $165,771 at December 31, 2023. As of June 30, 2023, the Company had approximately $80,000 of remaining performance obligations under a current waveguide development project, which amount represents the remainder of the total transaction price of approximately $800,000 under this development project, less revenue recognized under percentage of completion to date. The Company did recognize the remaining revenue related to this project in the third quarter of 2023. As of June 30, 2024, the Company had no material outstanding performance obligations related to product sales, other than its standard product warranty. 2 . <table style="border-collapse:collapse;font-size:16pt;height:max-content;padding-left:0pt;padding-right:0pt;width:100%;"><tr style="height:1pt;"><td style="vertical-align:bottom;width:50.13%;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;margin:0pt;padding:0pt;"> . </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;"> <p style="font-

family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:50.13%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td colspan="5" style="vertical-align:bottom;white-space:nowrap;width:22.46%;margin:0pt;padding:0pt;"> Three Months Ended </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td colspan="5" style="vertical-align:bottom;white-space:nowrap;width:22.46%;margin:0pt;padding:0pt;"> Six Months Ended </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:50.13%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td colspan="5" style="vertical-align:bottom;white-space:nowrap;width:22.46%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> June 30, </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td colspan="5" style="vertical-align:bottom;white-space:nowrap;width:22.46%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> June 30, </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:50.13%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:10.4%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2024 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:10.4%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2023 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:10.4%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2024 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:10.4%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2023 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:50.13%;margin:0pt;padding:0pt;"> Revenues </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;margin:0pt;padding:0pt;"> $ </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td

style="vertical-align:bottom;white-space:nowrap;width:1.03%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:50.13%;background:#cceeff;margin:0pt;padding:0pt;"> Products Sales </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;background:#cceeff;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0pt 0pt;">601,263</p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;"></p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;background:#cceeff;margin:0pt;padding:0pt;"> 4,425,162 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;background:#cceeff;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0pt 0pt;">2,430,336</p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;"></p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;background:#cceeff;margin:0pt;padding:0pt;"> 8,616,523 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:50.13%;margin:0pt;padding:0pt;"> Engineering Services </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 491,308 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 265,673 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"><p style="font-

family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 666,102 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> - </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 265,673 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> - </td></tr><tr><td style="vertical-align:bottom;width:50.13%;background:#cceeff;margin:0pt;padding:0pt;"> - </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> - </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;background:#cceeff;margin:0pt;padding:0pt;"> - </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;background:#cceeff;margin:0pt;padding:0pt;"> - </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> - </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;background:#cceeff;margin:0pt;padding:0pt;"> - </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;background:#cceeff;margin:0pt;padding:0pt;"> - </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> - </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;background:#cceeff;margin:0pt;padding:0pt;"> - </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;background:#cceeff;margin:0pt;padding:0pt;"> - </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> - </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;background:#cceeff;margin:0pt;padding:0pt;"> - </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;background:#cceeff;margin:0pt;padding:0pt;"> - </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> - </td></tr><tr><td style="vertical-align:bottom;width:50.13%;margin:0pt;padding:0pt;"> Total Revenue </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> - </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0pt 0pt;"> 1,092,571</p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;">-</p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 4,690,835 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> - </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> $ </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;border-

bottom:3px double #000000;margin:0pt;padding:0pt;"> 3,096,438 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> 1 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.03%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> $ </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 8,882,196 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> 1 </td></tr></table> 601263 4425162 2430336 8616523 491308 265673 666102 265673 1092571 4690835 3096438 8882196 0 0 1 <table style="border-collapse:collapse;font-size:16pt;height:max-content;margin-left:auto;margin-right:auto;padding-left:0pt;padding-right:0pt;width:100%;"><tr style="height:1pt;"><td style="vertical-align:bottom;width:48.98%;margin:0pt;padding:0pt;"> 1 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> 1 </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;margin:0pt;padding:0pt;"> 1 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> 1 </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;margin:0pt;padding:0pt;"> 1 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> 1 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.37%;margin:0pt;padding:0pt;"> 1 </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;margin:0pt;padding:0pt;"> 1 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> 1 </td><td style="vertical-align:bottom;white-space:nowrap;width:10.03%;margin:0pt;padding:0pt;"> 1 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> 1 </td></tr><tr><td style="vertical-align:bottom;width:48.98%;margin:0pt;padding:0pt;"> 1 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td colspan="4" style="vertical-align:bottom;width:23.49%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> Three Months Ended
June 30, </td><td style="vertical-align:bottom;white-space:nowrap;width:2.37%;margin:0pt;padding:0pt;"> 1 </td><td colspan="3" style="vertical-align:bottom;width:21.78%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> Six Months Ended
June 30, </td><td style="vertical-align:bottom;width:1.72%;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-

align:center;margin:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:48.98%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2024 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2023 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.37%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2024 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.03%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2023 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:48.98%;background:#cceeff;margin:0pt;padding:0pt;"> Point-in-Time </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;background:#cceeff;margin:0pt;padding:0pt;"> 55 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;background:#cceeff;margin:0pt;padding:0pt;"> % </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;background:#cceeff;margin:0pt;padding:0pt;"> 94 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;background:#cceeff;margin:0pt;padding:0pt;"> % </td><td style="vertical-align:bottom;white-space:nowrap;width:2.37%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;background:#cceeff;margin:0pt;padding:0pt;"> 78 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;background:#cceeff;margin:0pt;padding:0pt;"> % </td><td style="vertical-align:bottom;white-space:nowrap;width:10.03%;background:#cceeff;margin:0pt;padding:0pt;"> 97 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;background:#cceeff;margin:0pt;padding:0pt;"> % </td></tr><tr><td style="vertical-align:bottom;width:48.98%;margin:0pt;padding:0pt;"> Over Time – Input Method </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 45 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> % </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 6 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> % </td><td style="vertical-align:bottom;white-space:nowrap;width:2.37%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"><p style="font-

family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0pt 0pt;">22 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> % </td><td style="vertical-align:bottom;white-space:nowrap;width:10.03%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 3 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> % </td></tr><tr><td style="vertical-align:bottom;width:48.98%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.37%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.03%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;background:#cceeff;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:48.98%;margin:0pt;padding:0pt;"> Total </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 100 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> % </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 100 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> % </td><td style="vertical-align:bottom;white-space:nowrap;width:2.37%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.02%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 100 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> % </td><td style="vertical-align:bottom;white-space:nowrap;width:10.03%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 100 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.72%;margin:0pt;padding:0pt;"> % </td></tr></table> 0.55 0.94 0.78 0.97 0.45 0.06 0.22 0.03 1 1 1 1 2359904 3500000 0.18 0.82 290096 165771 80000 800000 Note 3 – Loss Per Share Basic loss per share is computed by dividing the loss attributable to common stockholders by the weighted average number of common shares outstanding for the period. Diluted earnings per share reflects the potential dilution from the assumed exercise of stock options. During periods of net loss, all common stock equivalents are excluded from the diluted EPS calculation because they are anti-dilutive. Since the Company reported a net loss for the three and six months ended June 30, 2024 and 2023, the calculation for basic and diluted earnings per share is considered to be the same, as the impact of potential common shares is anti-dilutive. As of June 30, 2024 and 2023, there were 10,744,477 and 8,658,642 common stock share equivalents, for the three months then ended, respectively, potentially issuable from the exercise of stock options that could dilute basic earnings per share in the future.

 10744477 8658642
Note 4 – Inventories, Net Inventories are stated at the lower of cost and net realizable value, and consisted of the following: <table style="border-collapse:collapse;font-size:16pt;height:max-content;margin-left:auto;margin-right:auto;padding-left:0pt;padding-right:0pt;width:100%;"><tr style="height:1pt;"><td style="vertical-align:bottom;width:69.31%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.27%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:3.1%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.01%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:69.31%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.27%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.38%;margin:0pt;padding:0pt;"> June 30, </td><td style="vertical-align:bottom;white-space:nowrap;width:3.1%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.91%;margin:0pt;padding:0pt;"> December 31, </td></tr><tr><td style="vertical-align:bottom;width:69.31%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.27%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.38%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2024 </td><td style="vertical-align:bottom;white-space:nowrap;width:3.1%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.91%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2023 </td></tr><tr><td style="vertical-align:bottom;width:69.31%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.27%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> <span

style="font-size:8pt;font-weight:bold;margin-bottom:0pt;visibility:hidden;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:3.1%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.01%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:69.31%;background:#cceeff;margin:0pt;padding:0pt;"> Purchased Parts and Components </td><td style="vertical-align:bottom;white-space:nowrap;width:2.27%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0.05pt 0pt;"> 10,876,973</p></td><td style="vertical-align:bottom;white-space:nowrap;width:3.1%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;"></p></td><td style="vertical-align:bottom;white-space:nowrap;width:2.01%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;background:#cceeff;margin:0pt;padding:0pt;"> 9,500,415 </td></tr><tr><td style="vertical-align:bottom;width:69.31%;margin:0pt;padding:0pt;"> Work-in-Process </td><td style="vertical-align:bottom;white-space:nowrap;width:2.27%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;margin:0pt;padding:0pt;"> 291,432 </td><td style="vertical-align:bottom;white-space:nowrap;width:3.1%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.01%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;margin:0pt;padding:0pt;"> 394,923 </td></tr><tr><td style="vertical-align:bottom;width:69.31%;background:#cceeff;margin:0pt;padding:0pt;"> Finished Goods </td><td style="vertical-align:bottom;white-space:nowrap;width:2.27%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;background:#cceeff;margin:0pt;padding:0pt;"> 5,044,284 </td><td style="vertical-align:bottom;white-space:nowrap;width:3.1%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.01%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;background:#cceeff;margin:0pt;padding:0pt;"> 4,880,643 </td></tr><tr><td style="vertical-align:bottom;width:69.31%;margin:0pt;padding:0pt;"> Less: Reserve for Obsolescence </td><td style="vertical-align:bottom;white-space:nowrap;width:2.27%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> (5,974,526) </td><td style="vertical-align:bottom;white-space:nowrap;width:3.1%;margin:0pt;padding:0pt;"><p style="font-family:'Times New

Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.01%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> (5,775,551) </td></tr><tr><td style="vertical-align:bottom;width:69.31%;background:#ccceff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.27%;background:#ccceff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#ccceff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;background:#ccceff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:3.1%;background:#ccceff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.01%;background:#ccceff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;background:#ccceff;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:69.31%;margin:0pt;padding:0pt;"> Inventories, Net </td><td style="vertical-align:bottom;white-space:nowrap;width:2.27%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0.05pt 0pt;"> 10,238,163</p></td><td style="vertical-align:bottom;white-space:nowrap;width:3.1%;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;"></p></td><td style="vertical-align:bottom;white-space:nowrap;width:2.01%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 9,000,430 </td></tr></table> <table style="border-collapse:collapse;font-size:16pt;height:max-content;margin-left:auto;margin-right:auto;padding-left:0pt;padding-right:0pt;width:100%;"><tr style="height:1pt;"><td style="vertical-align:bottom;width:69.31%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.27%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:3.1%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.01%;margin:0pt;padding:0pt;"> </td><td style="vertical-

align:bottom;white-space:nowrap;width:10.9%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:69.31%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.27%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.38%;margin:0pt;padding:0pt;"> June 30, </td><td style="vertical-align:bottom;white-space:nowrap;width:3.1%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.91%;margin:0pt;padding:0pt;"> December 31, </td></tr><tr><td style="vertical-align:bottom;width:69.31%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.27%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.38%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2024 </td><td style="vertical-align:bottom;white-space:nowrap;width:3.1%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.91%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2023 </td></tr><tr><td style="vertical-align:bottom;width:69.31%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.27%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:3.1%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.01%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:69.31%;background:#ccceff;margin:0pt;padding:0pt;"> Purchased Parts and Components </td><td style="vertical-align:bottom;white-space:nowrap;width:2.27%;background:#ccceff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#ccceff;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;background:#ccceff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0.05pt 0pt;"> 10,876,973</p></td><td style="vertical-align:bottom;white-space:nowrap;width:3.1%;background:#ccceff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;"></p></td><td style="vertical-align:bottom;white-space:nowrap;width:2.01%;background:#ccceff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;background:#ccceff;margin:0pt;padding:0pt;"> 9,500,415 </td></tr><tr><td style="vertical-align:bottom;width:69.31%;margin:0pt;padding:0pt;"> Work-in-Process </td><td style="vertical-align:bottom;white-space:nowrap;width:2.27%;margin:0pt;padding:0pt;"> <span style="margin-

bottom:0pt;visibility:hidden;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;margin:0pt;padding:0pt;"> 291,432 </td><td style="vertical-align:bottom;white-space:nowrap;width:3.1%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.01%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;margin:0pt;padding:0pt;"> 394,923 </td></tr><tr><td style="vertical-align:bottom;width:69.31%;background:#cceeff;margin:0pt;padding:0pt;"> Finished Goods </td><td style="vertical-align:bottom;white-space:nowrap;width:2.27%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;background:#cceeff;margin:0pt;padding:0pt;"> 5,044,284 </td><td style="vertical-align:bottom;white-space:nowrap;width:3.1%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.01%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;background:#cceeff;margin:0pt;padding:0pt;"> 4,880,643 </td></tr><tr><td style="vertical-align:bottom;width:69.31%;margin:0pt;padding:0pt;"> Less: Reserve for Obsolescence </td><td style="vertical-align:bottom;white-space:nowrap;width:2.27%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> (5,974,526) </td><td style="vertical-align:bottom;white-space:nowrap;width:3.1%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.01%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> (5,775,551) </td></tr><tr><td style="vertical-align:bottom;width:69.31%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.27%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:3.1%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.01%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;background:#cceeff;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:69.31%;margin:0pt;padding:0pt;"> Inventories, Net </td><td style="vertical-align:bottom;white-space:nowrap;width:2.27%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> $ </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;border-bottom:3px double

~~#000000;margin:0pt;padding:0pt;"> 10,238,163 </td><td style="vertical-align:bottom;white-space:nowrap;width:3.1%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.01%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> $ </td><td style="vertical-align:bottom;white-space:nowrap;width:10.9%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 9,000,430 </td></tr></table> 10876973 9500415 291432 394923 5044284 4880643 5974526 5775551 10238163 9000430 Note 5 – Fixed Assets Fixed Assets consisted of the following: <table style="border-collapse:collapse;font-size:16pt;height:max-content;padding-left:0pt;padding-right:0pt;width:100%;"><tr style="height:1pt;"><td style="vertical-align:bottom;width:70.05%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.5%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.15%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.5%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.13%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:70.05%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.66%;margin:0pt;padding:0pt;"> June 30, </td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.64%;margin:0pt;padding:0pt;"> December 31, </td></tr><tr><td style="vertical-align:bottom;width:70.05%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.66%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2024 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-~~

space:nowrap;width:12.64%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2023 </td></tr><tr><td style="vertical-align:bottom;width:70.05%;background:#cceeff;margin:0pt;padding:0pt;"> Tooling and Manufacturing Equipment </td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.5%;background:#cceeff;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:11.15%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0.05pt 0pt;"> 9,585,842</p></td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;"></p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.5%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:11.13%;background:#cceeff;margin:0pt;padding:0pt;"> 8,793,192 </td></tr><tr><td style="vertical-align:bottom;width:70.05%;margin:0pt;padding:0pt;"> Leaseholds </td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.5%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.15%;margin:0pt;padding:0pt;"> 2,839,164 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.5%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.13%;margin:0pt;padding:0pt;"> 3,162,695 </td></tr><tr><td style="vertical-align:bottom;width:70.05%;background:#cceeff;margin:0pt;padding:0pt;"> Computers and Purchased Software </td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.5%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.15%;background:#cceeff;margin:0pt;padding:0pt;"> 679,138 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.5%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.13%;background:#cceeff;margin:0pt;padding:0pt;"> 833,794 </td></tr><tr><td style="vertical-align:bottom;width:70.05%;margin:0pt;padding:0pt;"> Furniture and Equipment </td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.5%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.15%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2,431,846 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.5%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.13%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2,580,904 </td></tr><tr><td style="vertical-align:bottom;width:70.05%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-

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</td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.5%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.13%;margin:0pt;padding:0pt;"> 3,162,695 </td></tr><tr><td style="vertical-align:bottom;width:70.05%;background:#ccceff;margin:0pt;padding:0pt;"> Computers and Purchased Software </td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;background:#ccceff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.5%;background:#ccceff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.15%;background:#ccceff;margin:0pt;padding:0pt;"> 679,138 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;background:#ccceff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.5%;background:#ccceff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.13%;background:#ccceff;margin:0pt;padding:0pt;"> 833,794 </td></tr><tr><td style="vertical-align:bottom;width:70.05%;margin:0pt;padding:0pt;"> Furniture and Equipment </td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.5%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.15%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2,431,846 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.5%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.13%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2,580,904 </td></tr><tr><td style="vertical-align:bottom;width:70.05%;background:#ccceff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;background:#ccceff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.5%;background:#ccceff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.15%;background:#ccceff;margin:0pt;padding:0pt;"> 15,535,990 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;background:#ccceff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.5%;background:#ccceff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.13%;background:#ccceff;margin:0pt;padding:0pt;"> 15,370,585 </td></tr><tr><td style="vertical-align:bottom;width:70.05%;margin:0pt;padding:0pt;"> Less: Accumulated Depreciation </td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.5%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.15%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> (7,347,127) </td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.5%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td>

<td style="vertical-align:bottom;white-space:nowrap;width:11.13%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> (7,297,755) </td></tr><tr><td style="vertical-align:bottom;width:70.05%;background:#cceeff;margin:0pt;padding:0pt;"> Fixed Assets, Net </td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.5%;background:#cceeff;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:11.15%;background:#cceeff;border-bottom:3px double #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0.05pt 0pt;"> 8,188,863</p></td><td style="vertical-align:bottom;white-space:nowrap;width:2.31%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;"></p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.5%;background:#cceeff;border-bottom:3px double #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:11.13%;background:#cceeff;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 8,072,830 </td></tr></table> 9585842 8793192 2839164 3162695 679138 833794 2431846 2580904 15535990 15370585 7347127 7297755 8188863 8072830 965000 588000 231222 111934 522042 214385 Note 6 – Technology Licenses, Net The changes in the Company’s Technology Licenses for the six months ended June 30, 2024, were as follows: <table style="border-collapse:collapse;font-size:16pt;height:max-content;margin-left:auto;margin-right:auto;padding-left:0pt;padding-right:0pt;width:100%;"><tr style="height:1pt;"><td style="vertical-align:bottom;width:70.79%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.4%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:70.79%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.72%;margin:0pt;padding:0pt;"> June 30, </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:11.88%;margin:0pt;padding:0pt;"> December 31, </td></tr><tr><td style="vertical-align:bottom;width:70.79%;margin:0pt;padding:0pt;">

</td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.72%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2024 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:11.88%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2023 </td></tr><tr><td style="vertical-align:bottom;width:70.79%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.4%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:70.79%;background:#cceeff;margin:0pt;padding:0pt;"> Licenses </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0pt 0pt;">32,443,356</p></td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;"></p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:10.4%;background:#cceeff;margin:0pt;padding:0pt;"> 32,443,356 </td></tr><tr><td style="vertical-align:bottom;width:70.79%;margin:0pt;padding:0pt;"> Write Offs </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;margin:0pt;padding:0pt;"> (30,000,000) </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.4%;margin:0pt;padding:0pt;"> — </td></tr><tr><td style="vertical-align:bottom;width:70.79%;background:#cceeff;margin:0pt;padding:0pt;"> Less: Accumulated Amortization </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> (1,581,778) </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;">

</td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#ccceff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.4%;background:#ccceff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> (5,592,355) </td></tr><tr><td style="vertical-align:bottom;width:70.79%;margin:0pt;padding:0pt;"> Licenses, Net </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0pt 0pt;"> 861,578</p></td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;"></p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:10.4%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 26,851,001 </td></tr></table> Total amortization expense related to technology licenses for the three months ended June 30, 2024 and 2023 was $835,542 and $826,984, respectively. Total amortization expense related to technology licenses for the six months ended June 30, 2024 and 2023 was $1,653,876 and $1,653,868, respectively. The estimated aggregate annual amortization expense for each of the next five fiscal years is approximately $201,000. The Company made the decision to cease further funding of development activities with Atomistic SAS (“Atomistic”) under the license agreement, dated December 16, 2022, among the Company, Atomistic, and Atomistic’s two principals (the “License Agreement”). The Company’s decision gave Atomistic the right under the License Agreement to terminate the Granted License (as defined under the License Agreement), which right Atomistic exercised on July 1, 2024. As a result of the termination of the granted license, on July 1, 2024, which was effective June 30, 2024, the Company determined that the technology license asset of $24,335,554, net book value as of June 30, 2024, had been impaired as the Company no longer held exclusive licensing rights to the technology for its use. Notwithstanding the termination of the Granted License, the Company will be entitled to certain License Royalties (as defined under the License Agreement) from Atomistic if it licenses the technology that was the subject of the granted license. <table style="border-collapse:collapse;font-size:16pt;height:max-content;margin-left:auto;margin-right:auto;padding-left:0pt;padding-right:0pt;width:100%;"><tr style="height:1pt;"><td style="vertical-align:bottom;width:70.79%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> <p style="font-family:'Times New Roman','Times','serif';font-

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align:bottom;white-space:nowrap;width:11.24%;margin:0pt;padding:0pt;"> (30,000,000) </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;"> </p></td><td style="vertical-align:bottom;white-space:nowrap;width:10.4%;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0pt 0pt;">—</p></td></tr><tr><td style="vertical-align:bottom;width:70.79%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;">Less: Accumulated Amortization</p></td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> (1,581,778) </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;"> </p></td><td style="vertical-align:bottom;white-space:nowrap;width:10.4%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt;"> (5,592,355)</p></td></tr><tr><td style="vertical-align:bottom;width:70.79%;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;">Licenses, Net</p></td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;"><span style="visibility:hidden;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0pt 0pt;"> 861,578</p></td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;"><span style="visibility:hidden;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> $ </td><td style="vertical-align:bottom;white-space:nowrap;width:10.4%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 26,851,001 </td></tr></table> 32443356 32443356 -30000000 1581778 5592355 861578 26851001 835542 826984 1653876 1653868 201000 24335554 Note 7 – Investment in Atomistic In addition to the write-off of the Atomistic technology license discussed in Note 6, based upon the fact that Atomistic has lost future funding from the Company and most likely will not have adequate funds on its own to complete the project without raising additional funding from other third parties, the Company also determined the equity investment has been impaired and the Company recorded a charge of $5,664,446 for the period ended June 30, 2024. The Company will retain an equity interest in Atomistic, the right to appoint a member to the Atomistic board of directors and certain other rights as an equity owner pursuant to the stock purchase agreement and shareholders' agreement entered into in connection with the License Agreement. The Company's equity interest in Atomistic entitles it to a preferential allocation to 49% of the distributable amounts in the event of a liquidation event, such as an acquisition of Atomistic or its assets.</p><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:justify;text-indent:36pt;margin:0pt;"> $ Future royalties of the license and the 49% liquidation preferred allocation value, if any, are considered gain contingencies and will not be recorded until any specific events materialize. At this specific point in time, the Company is unable to reasonably estimate a value to all those contingencies and therefore recorded a full impairment against the license and the investment in Atomistic preferred shares due to such uncertainty of potential outcomes. $</p> 5664446 0.49 0.49 <p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 12pt 0pt;"><b style="font-weight:bold;">Note 8 – Other Assets</p><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-indent:36pt;margin:0pt;">The Company's Other Assets, were as follows:</p><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;"><span style="visibility:hidden;">$ $ <table style="border-collapse:collapse;font-size:16pt;height:max-content;padding-left:0pt;padding-right:0pt;width:100%;"><tr style="height:1pt;"><td style="vertical-align:bottom;width:69.5%;margin:0pt;padding:0pt;"> <span style="font-size:1pt;margin-

bottom:0pt;visibility:hidden;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.47%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.45%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:69.5%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.96%;margin:0pt;padding:0pt;"> June 30, </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.94%;margin:0pt;padding:0pt;"> December 31, </td></tr><tr><td style="vertical-align:bottom;width:69.5%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.96%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2024 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.94%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2023 </td></tr><tr><td style="vertical-align:bottom;width:69.5%;margin:0pt;padding:0pt;"> Private Corporation Investments </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:11.47%;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0.05pt 0pt;"> 650,000</p></td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;"></p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:11.45%;margin:0pt;padding:0pt;"> 450,000 </td></tr><tr><td style="vertical-align:bottom;width:69.5%;background:#cceeff;margin:0pt;padding:0pt;"> Additions </td><td style="vertical-align:bottom;white-

space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.47%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> — </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.45%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 200,000 </td></tr><tr><td style="vertical-align:bottom;width:69.5%;margin:0pt;padding:0pt;"> Total Private Corporation Investments (at cost) </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.47%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 650,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.45%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 650,000 </td></tr><tr><td style="vertical-align:bottom;width:69.5%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.47%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.45%;background:#cceeff;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:69.5%;margin:0pt;padding:0pt;"> Software Development Costs </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.47%;margin:0pt;padding:0pt;"> 1,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.45%;margin:0pt;padding:0pt;"> 875,000

</td></tr><tr><td style="vertical-align:bottom;width:69.5%;background:#cceeff;margin:0pt;padding:0pt;"> Additions </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.47%;background:#cceeff;margin:0pt;padding:0pt;"> — </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.45%;background:#cceeff;margin:0pt;padding:0pt;"> 125,000 </td></tr><tr><td style="vertical-align:bottom;width:69.5%;margin:0pt;padding:0pt;"> Less: Accumulated Amortization </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.47%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> (722,222) </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.45%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> (638,889) </td></tr><tr><td style="vertical-align:bottom;width:69.5%;background:#cceeff;margin:0pt;padding:0pt;"> Software Development Costs, Net </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.47%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 277,778 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.45%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 361,111 </td></tr><tr><td style="vertical-align:bottom;width:69.5%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.47%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> <span style="margin-

bottom:0pt;visibility:hidden;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.45%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:69.5%;background:#cceeff;margin:0pt;padding:0pt;"> Total Other Assets </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:11.47%;background:#cceeff;border-bottom:3px double #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0.05pt 0pt;"> 927,778</p></td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;"></p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;border-bottom:3px double #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:11.45%;background:#cceeff;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 1,011,111 </td></tr></table> During the year ended December 31, 2021, the Company acquired, for a purchase price of $200,000, an ownership interest of 3%, in the form of preferred stock, in a private corporation developing smart glasses software for use by retailers in the stockkeeping of inventory, amongst other uses. In the year ended December 31, 2023, the Company purchased an additional $100,000 of preferred stock in this corporation to retain a 2% ownership interest. In June 2023, the Company purchased $100,000 of preferred stock, along with warrants, in a UK-based public company developing new semiconductor materials for displays. The investment represents less than a 1% ownership interest. Total amortization expense related to all software updates, included in cost of sales, for the three months ended June 30, 2024, and 2023 were $41,668 and $83,333, respectively. Total amortization expense related to all software updates, included in cost of sales, for the six months ended June 30, 2024, and 2023 were $83,333 and $138,889, respectively. <table style="border-collapse:collapse;font-size:16pt;height:max-content;padding-left:0pt;padding-right:0pt;width:100%;"><tr style="height:1pt;"><td style="vertical-align:bottom;width:69.5%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.47%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.45%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:69.5%;margin:0pt;padding:0pt;"> <span style="font-

size:8pt;margin-bottom:0pt;visibility:hidden;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.96%;margin:0pt;padding:0pt;"> June 30, </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.94%;margin:0pt;padding:0pt;"> December 31, </td></tr><tr><td style="vertical-align:bottom;width:69.5%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.96%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2024 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.94%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2023 </td></tr><tr><td style="vertical-align:bottom;width:69.5%;margin:0pt;padding:0pt;"> Private Corporation Investments </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:11.47%;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0.05pt 0pt;"> 650,000</p></td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;"></p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:11.45%;margin:0pt;padding:0pt;"> 450,000 </td></tr><tr><td style="vertical-align:bottom;width:69.5%;background:#cceeff;margin:0pt;padding:0pt;"> Additions </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.47%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> — </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.45%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 200,000 </td></tr><tr><td style="vertical-align:bottom;width:69.5%;margin:0pt;padding:0pt;"> Total Private Corporation Investments (at cost) </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.47%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 650,000 </td><td style="vertical-align:bottom;white-

space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.45%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 650,000 </td></tr><tr><td style="vertical-align:bottom;width:69.5%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.47%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.45%;background:#cceeff;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:69.5%;margin:0pt;padding:0pt;"> Software Development Costs </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.47%;margin:0pt;padding:0pt;"> 1,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.45%;margin:0pt;padding:0pt;"> 875,000 </td></tr><tr><td style="vertical-align:bottom;width:69.5%;background:#cceeff;margin:0pt;padding:0pt;"> Additions </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.47%;background:#cceeff;margin:0pt;padding:0pt;"> — </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.45%;background:#cceeff;margin:0pt;padding:0pt;"> 125,000 </td></tr><tr><td style="vertical-align:bottom;width:69.5%;margin:0pt;padding:0pt;"> Less: Accumulated Amortization </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.47%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 0pt 0.05pt

0pt;"> (722,222) </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.45%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> (638,889) </td></tr><tr><td style="vertical-align:bottom;width:69.5%;background:#cceeff;margin:0pt;padding:0pt;"> Software Development Costs, Net </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.47%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 277,778 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.45%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 361,111 </td></tr><tr><td style="vertical-align:bottom;width:69.5%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.47%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.45%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:69.5%;background:#cceeff;margin:0pt;padding:0pt;"> Total Other Assets </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:11.47%;background:#cceeff;border-bottom:3px double #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0.05pt 0pt;"> 927,778</p></td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;"></p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;border-bottom:3px double #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:11.45%;background:#cceeff;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 1,011,111 </td></tr></table> 650000 450000 200000 650000 650000 1000000 875000 125000 -722222 -638889 277778 361111 927778 1011111 200000 0.03 100000 0.02 100000 0.01 41668 83333 83333 138889 Note 9 – Accrued Expenses Accrued expenses consisted of the following: <table style="border-

collapse:collapse;font-size:16pt;height:max-content;margin-left:auto;margin-right:auto;padding-left:0pt;padding-right:0pt;width:100%;"><tr style="height:1pt;"><td style="vertical-align:bottom;width:69.67%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.51%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:69.67%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.72%;margin:0pt;padding:0pt;"> June 30, </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:13%;margin:0pt;padding:0pt;"> December 31, </td></tr><tr><td style="vertical-align:bottom;width:69.67%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.72%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2024 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:13%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2023 </td></tr><tr><td style="vertical-align:bottom;width:69.67%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td

style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.51%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:69.67%;background:#cceeff;margin:0pt;padding:0pt;"> Accrued Wages and Related Costs </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0.05pt 0pt;"> 723,432</p></td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;"></p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:11.51%;background:#cceeff;margin:0pt;padding:0pt;"> 1,711,707 </td></tr><tr><td style="vertical-align:bottom;width:69.67%;margin:0pt;padding:0pt;"> Accrued Professional Services </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;margin:0pt;padding:0pt;"> 151,650 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.51%;margin:0pt;padding:0pt;"> 362,100 </td></tr><tr><td style="vertical-align:bottom;width:69.67%;background:#cceeff;margin:0pt;padding:0pt;"> Accrued Warranty Obligations </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;background:#cceeff;margin:0pt;padding:0pt;"> 131,327 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.51%;background:#cceeff;margin:0pt;padding:0pt;"> 188,249 </td></tr><tr><td style="vertical-align:bottom;width:69.67%;margin:0pt;padding:0pt;"> Other Accrued Expenses </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> — </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.51%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 154,387 </td></tr><tr><td style="vertical-

align:bottom;width:69.67%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.51%;background:#cceeff;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:69.67%;margin:0pt;padding:0pt;"> Total </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0.05pt 0pt;"> 1,006,409</p></td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;"></p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:11.51%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 2,416,443 </td></tr></table> Included in Accrued Wages and Related Costs was $410,251 in severance costs for staff reductions that took place at the end of June 2024 as part of the Company’s cost reduction initiative, which was approved in June 2024 and made effective July 1, 2024. The Company has warranty obligations in connection with the sale of certain of its products. The warranty period for its products is generally twelve (12) months, unless the customer purchases an extended warranty for an additional twelve (12) months. The costs incurred to provide for these warranty obligations are estimated and recorded as an accrued liability at the time of sale. The Company estimates its future warranty costs based upon product-based historical performance rates and related costs to repair. The changes in the Company’s accrued warranty obligations for the six months ended June 30, 2024, were as follows: <table style="border-collapse:collapse;font-size:16pt;height:max-content;margin-left:auto;margin-right:auto;padding-left:0pt;padding-right:0pt;width:100%;"><tr style="height:1pt;"><td style="vertical-align:bottom;width:83.06%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.74%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.78%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:12.41%;margin:0pt;padding:0pt;"><div

style="height:1pt;overflow:hidden;overflow-wrap:break-word;position:relative;"> </td></tr><tr><td style="vertical-align:bottom;width:83.06%;background:#cceeff;margin:0pt;padding:0pt;"> Accrued Warranty Obligations at December 31, 2023 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.74%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.78%;background:#cceeff;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:12.41%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0.05pt 0pt;"> 188,249</p></td></tr><tr><td style="vertical-align:bottom;width:83.06%;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;">Reductions for Settling Warranties</p></td><td style="vertical-align:bottom;white-space:nowrap;width:2.74%;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;"></p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.78%;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;"> </p></td><td style="vertical-align:bottom;white-space:nowrap;width:12.41%;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 0pt 0.05pt 0pt;"> (129,832)</p></td></tr><tr><td style="vertical-align:bottom;width:83.06%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;">Warranties Issued During Period</p></td><td style="vertical-align:bottom;white-space:nowrap;width:2.74%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;"></p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.78%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;"> </p></td><td style="vertical-align:bottom;white-space:nowrap;width:12.41%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0.05pt 0pt;"> 72,910</p></td></tr><tr><td style="vertical-align:bottom;width:83.06%;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;"></p></td><td 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style="vertical-align:bottom;white-space:nowrap;width:2.74%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;"></p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.78%;background:#cceeff;border-bottom:3px double #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:12.41%;background:#cceeff;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 131,327 </td></tr></table> <table style="border-collapse:collapse;font-size:16pt;height:max-content;margin-left:auto;margin-right:auto;padding-left:0pt;padding-right:0pt;width:100%;"><tr style="height:1pt;"><td style="vertical-align:bottom;width:69.67%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;margin:0pt;padding:0pt;"><div

style="height:1pt;overflow:hidden;overflow-wrap:break-word;position:relative;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.51%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:69.67%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.72%;margin:0pt;padding:0pt;"> June 30, </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:13%;margin:0pt;padding:0pt;"> December 31, </td></tr><tr><td style="vertical-align:bottom;width:69.67%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:12.72%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2024 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:13%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 2023 </td></tr><tr><td style="vertical-align:bottom;width:69.67%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.51%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:69.67%;background:#ccceff;margin:0pt;padding:0pt;"> Accrued Wages and Related Costs </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#ccceff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#ccceff;margin:0pt;padding:0pt;"> $ </td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;background:#ccceff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0.05pt

0pt;"> 723,432 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"> $ </td><td style="vertical-align:bottom;white-space:nowrap;width:11.51%;background:#cceeff;margin:0pt;padding:0pt;"> 1,711,707 </td></tr><tr><td style="vertical-align:bottom;width:69.67%;margin:0pt;padding:0pt;"> Accrued Professional Services </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;margin:0pt;padding:0pt;"> 151,650 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.51%;margin:0pt;padding:0pt;"> 362,100 </td></tr><tr><td style="vertical-align:bottom;width:69.67%;background:#cceeff;margin:0pt;padding:0pt;"> Accrued Warranty Obligations </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;background:#cceeff;margin:0pt;padding:0pt;"> 131,327 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.51%;background:#cceeff;margin:0pt;padding:0pt;"> 188,249 </td></tr><tr><td style="vertical-align:bottom;width:69.67%;margin:0pt;padding:0pt;"> Other Accrued Expenses </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> — </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.51%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 154,387 </td></tr><tr><td style="vertical-align:bottom;width:69.67%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New

Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:11.51%;background:#cceeff;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:69.67%;margin:0pt;padding:0pt;"> Total </td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> $</p></td><td style="vertical-align:bottom;white-space:nowrap;width:11.24%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-align:right;margin:0pt 3pt 0.05pt 0pt;"> 1,006,409</p></td><td style="vertical-align:bottom;white-space:nowrap;width:2.29%;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;"></p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.48%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt 0pt 0.05pt 0pt;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:11.51%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 2,416,443 </td></tr></table> 723432 1711707 151650 362100 131327 188249 154387 1006409 2416443 410251 <table style="border-collapse:collapse;font-size:16pt;height:max-content;margin-left:auto;margin-right:auto;padding-left:0pt;padding-right:0pt;width:100%;"><tr style="height:1pt;"><td style="vertical-align:bottom;width:83.06%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.74%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.78%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:12.41%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:83.06%;background:#cceeff;margin:0pt;padding:0pt;"> Accrued Warranty Obligations at December 31, 2023 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.74%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.78%;background:#cceeff;margin:0pt;padding:0pt;"> $ </td><td style="vertical-align:bottom;white-space:nowrap;width:12.41%;background:#cceeff;margin:0pt;padding:0pt;"> 188,249 </td></tr><tr><td style="vertical-align:bottom;width:83.06%;margin:0pt;padding:0pt;"> Reductions for Settling Warranties </td><td style="vertical-align:bottom;white-space:nowrap;width:2.74%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.78%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:12.41%;margin:0pt;padding:0pt;"> (129,832) </td></tr><tr><td style="vertical-align:bottom;width:83.06%;background:#cceeff;margin:0pt;padding:0pt;"> Warranties Issued During Period </td><td style="vertical-align:bottom;white-space:nowrap;width:2.74%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.78%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:12.41%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 72,910 </td></tr><tr><td style="vertical-align:bottom;width:83.06%;margin:0pt;padding:0pt;"> <span

style="margin-bottom:0pt;visibility:hidden;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.74%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.78%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:12.41%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:83.06%;background:#cceeff;margin:0pt;padding:0pt;"> Accrued Warranty Obligations at June 30, 2024 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.74%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.78%;background:#cceeff;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> $ </td><td style="vertical-align:bottom;white-space:nowrap;width:12.41%;background:#cceeff;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 131,327 </td></tr></table> 188249 129832 72910 131327 Note 10 – Income Taxes The Company's effective income tax rate is a combination of federal, state and foreign tax rates and differs from the U.S. statutory rate due to taxes on foreign income, permanent differences including tax-exempt interest, and the resolution of tax uncertainties, offset by a valuation allowance against U.S. deferred income tax assets. Note 11 – Capital Stock Preferred stock The Board of Directors is authorized to establish and designate different series of preferred stock and to fix and determine their voting powers and other rights and terms. The Company has 5,000,000 authorized shares of preferred stock with a par value of $0.001 as of June 30, 2024, and December 31, 2023. Of this total, 49,626 shares are designated as Series A Preferred Stock. There were nil shares of Series A Preferred Stock issued and outstanding on June 30, 2024, and December 31, 2023. Common Stock The Company's authorized common stock consists of 100,000,000 shares, par value of $0.001. There were 66,034,769 shares issued and 65,455,097 shares outstanding as of June 30, 2024 and 65,304,780 shares issued and 64,725,108 shares outstanding as of December 31, 2023. On May 6, 2024, the Company implemented a voluntary Company-wide payroll reduction program for all employees, directors and contractors with optional salary or compensation reductions of 10% to 50% depending upon the respective base salary or compensation level for the period running from May 1, 2024 to April 30, 2025. The estimated cash savings will be approximately $2,100,000 and resulted in the issuance of stock awards and stock options, at a rate of 150% or 200%, respectively, of the net cash wage reductions. The fair market value of these stock awards and stock option awards has been determined at $1.33 and $0.99, respectively, and a total of 824,711 stock awards and 2,756,116 stock option awards with an exercise price of $1.33 were issued. Both the stock awards and stock option awards cliff vest on April 30, 2025. These awards are subject to vesting and resale rules. In connection with the Atomistic Technology Licenses discussed in Note 6, on November 20, 2023, the Company issued a total of 1,397,500 shares of common stock to the Founders of Atomistic SAS ("Atomistic") for the achievement of certain technological milestones under a license agreement entered into between the Company, Atomistic and the Founders, along with cash consideration in exchange for equity in Atomistic (see Note 7). Pursuant to the Stock Purchase Agreement with Atomistic and its Founders, the Company will, contingent upon completion of certain deliverables and the achievement of further milestones contained in the Atomistic Agreements, be committed to issue, depending on the Company's share price at the time of their issuance, a further minimum of approximately 890,000 up to a maximum of 1,446,250 common shares to the Founders of Atomistic (as consideration for certain shares of Atomistic) which would result in Vuzix owning Series A Preferred shares in Atomistic that would be converted into ordinary shares of Atomistic and Vuzix ultimately owning nearly 100% of Atomistic, with Atomistic becoming a subsidiary of the Company. Within five years of the commencement of the Atomistic Agreements, the Company has agreed to issue up to a 15% equity bonus of the previously issued common shares to Atomistic stockholders, if: (i) the Company engages in a change-of-control

transaction for an implied equity value of at least $3.5 billion or (ii) the Company's market valuation exceeds $3.5 billion. This could result in the issuance of an additional 291,346 to 473,438 shares of the Company's common stock when that valuation target is exceeded. None of these share commitments have been issued to date. Treasury Stock On March 2, 2022, our Board of Directors approved the repurchase by the Company of up to an aggregate of $25 million of our common stock by open market or privately negotiated transactions under the Share Buyback Program. This program was in effect for one year and expired on March 2, 2023. During the six months ended June 30, 2023, the Company repurchased 115,000 shares of our common stock at an average cost of $4.06, before commission of $0.03 per share. As of June 30, 2024, 579,672 shares of our common stock were held in treasury. 5000000 5000000 0.001 0.001 49626 49626 0 0 100000000 100000000 0.001 0.001 66034769 65455097 65304780 64725108 0.10 0.50 2100000 1.50 2 1.33 0.99 824711 2756116 1.33 1397500 890000 1446250 1 P5Y 0.15 3500000000 3500000000 291346 473438 0 25000000 P1Y 115000 4.06 0.03 579672 Note 12 – Stock-Based Compensation A summary of stock option activity related to the Company's standard employee incentive plan (excluding options awarded under the Long-Term Incentive Plan (LTIP) – Note 13) for the six months ended June 30, 2024, is as follows: <table style="border-collapse:collapse;font-size:16pt;height:max-content;margin-left:auto;margin-right:auto;padding-left:0pt;padding-right:0pt;width:100%;"><tr style="height:1pt;"><td style="vertical-align:bottom;width:62.56%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.11%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.63%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.95%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:62.56%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:11.74%;margin:0pt;padding:0pt;"> Weighted </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.95%;margin:0pt;padding:0pt;"> Average </td></tr><tr><td style="vertical-

*align:bottom;width:62.56%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;"> Number of </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:11.74%;margin:0pt;padding:0pt;"> Average </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.95%;margin:0pt;padding:0pt;"> Remaining Life </td></tr><tr><td style="vertical-align:bottom;width:62.56%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> Options </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:11.74%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> Exercise Price </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.95%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> (years) </td></tr><tr><td style="vertical-align:bottom;width:62.56%;background:#cceeff;margin:0pt;padding:0pt;"> Outstanding at December 31, 2023 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;background:#cceeff;margin:0pt;padding:0pt;"> 2,911,308 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.11%;background:#cceeff;margin:0pt;padding:0pt;"> $ </td><td style="vertical-align:bottom;white-space:nowrap;width:10.63%;background:#cceeff;margin:0pt;padding:0pt;"> 7.60 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.95%;background:#cceeff;margin:0pt;padding:0pt;"> 6.30 </td></tr><tr><td style="vertical-align:bottom;width:62.56%;margin:0pt;padding:0pt;"> Granted </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;"> 2,532,971 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.11%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.63%;margin:0pt;padding:0pt;"> 1.33 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.95%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:62.56%;background:#cceeff;margin:0pt;padding:0pt;"> Exercised *

</td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;background:#cceeff;margin:0pt;padding:0pt;"> (10,937) </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.11%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.63%;background:#cceeff;margin:0pt;padding:0pt;"> 1.33 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.95%;background:#cceeff;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:62.56%;margin:0pt;padding:0pt;"> Expired or Forfeited </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> (423,365) </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.11%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.63%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 7.89 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.95%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:62.56%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.11%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.63%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.95%;background:#cceeff;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:62.56%;margin:0pt;padding:0pt;"> Outstanding at June 30, 2024 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 5,009,977 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.11%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> $ </td><td style="vertical-align:bottom;white-space:nowrap;width:10.63%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 4.43 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.95%;border-bottom:3px double

#000000;margin:0pt;padding:0pt;"> 7.84 </td></tr></table> The weighted average remaining contractual term for all options as of June 30, 2024, and December 31, 2023, was 7.84 years and 6.30 years, respectively. As of June 30, 2024, there were 2,072,021 options that were fully vested and exercisable at a weighted average exercise price of $7.24 per share. The weighted average remaining contractual term of the vested options is 5.4 years. As of June 30, 2024, there were 2,937,956 unvested options exercisable at a weighted average exercise price of $2.46 per share. The weighted average remaining contractual term of the unvested options is 9.6 years. The weighted average fair value of option grants was calculated using the Black-Scholes-Merton option pricing method. As of June 30, 2024, the Company had $4,836,647 of unrecognized stock compensation expense, which will be recognized over a weighted average period of 1.2 years. During the three months ended June 30, 2024, the Company issued 232,766 shares of common stock to its independent board members as part of their annual retainer for services covering the period of July 2024 to June 2025 and for onboarding of the new director. The fair market value on the date of award of the stock issued was $1.41, resulting in an aggregate fair value of approximately $328,200. The fair market value of these awards is expensed over twelve (12) months for 212,766 shares and twenty-four (24) months for 20,000 shares beginning on July 1, 2024. On May 6, 2024, the Company implemented a voluntary Company-wide payroll reduction program for all employees, independent board members and contractors with optional salary or compensation reductions of 10% to 50% depending upon the respective base salary or compensation level for the period running from May 1, 2024 to April 30, 2025. The estimated cash savings will be approximately $2,100,000 and resulted in the issuance of stock awards and stock options, at a rate of 150% or 200%, respectively, of the net cash wage reductions. The fair market value of these stock awards and stock option awards has been determined at $1.33 and $0.99, respectively, and a total of 824,711 stock awards and 2,756,116 stock option awards were issued. The total fair market value of the stock awards is $1,096,865 and the stock option awards is $2,728,555. The fair market value of these awards is being expensed over twelve (12) months, which began on May 1, 2024 and will cliff vest on April 30, 2025. For the three months ended June 30, 2024, and 2023, the Company recorded total stock-based compensation expense, including stock awards but excluding stock option awards under the Company’s LTIP, of $1,470,793 and $1,083,064, respectively. For the six months ended June 30, 2024 and 2023, the Company recorded total stock-based compensation expense, including stock awards but excluding stock option awards under the Company’s LTIP, of $2,454,444 and $2,212,630, respectively. <table style="border-collapse:collapse;font-size:16pt;height:max-content;margin-left:auto;margin-right:auto;padding-left:0pt;padding-right:0pt;width:100%;"><tr style="height:1pt;"><td style="vertical-align:bottom;width:62.56%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.11%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-

space:nowrap;width:10.63%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.95%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:62.56%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:11.74%;margin:0pt;padding:0pt;"> Weighted </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.95%;margin:0pt;padding:0pt;"> Average </td></tr><tr><td style="vertical-align:bottom;width:62.56%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;"> Number of </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:11.74%;margin:0pt;padding:0pt;"> Average </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.95%;margin:0pt;padding:0pt;"> Remaining Life </td></tr><tr><td style="vertical-align:bottom;width:62.56%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> Options </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td colspan="2" style="vertical-align:bottom;white-space:nowrap;width:11.74%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> Exercise Price </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.95%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> (years) </td></tr><tr><td style="vertical-align:bottom;width:62.56%;background:#cceeff;margin:0pt;padding:0pt;"> Outstanding at December 31, 2023 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-

align:right;margin:0pt 3pt 0pt 0pt;"> 2,911,308 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.11%;background:#cceeff;margin:0pt;padding:0pt;"> $ </td><td style="vertical-align:bottom;white-space:nowrap;width:10.63%;background:#cceeff;margin:0pt;padding:0pt;"> 7.60 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.95%;background:#cceeff;margin:0pt;padding:0pt;"> 6.30 </td></tr><tr><td style="vertical-align:bottom;width:62.56%;margin:0pt;padding:0pt;"> Granted </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;margin:0pt;padding:0pt;"> 2,532,971 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.11%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.63%;margin:0pt;padding:0pt;"> 1.33 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.95%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:62.56%;background:#cceeff;margin:0pt;padding:0pt;"> Exercised </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;background:#cceeff;margin:0pt;padding:0pt;"> (10,937) </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.11%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.63%;background:#cceeff;margin:0pt;padding:0pt;"> 1.33 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.95%;background:#cceeff;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:62.56%;margin:0pt;padding:0pt;"> Expired or Forfeited </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> (423,365) </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.11%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.63%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 7.89 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.95%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:62.56%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-

space:nowrap;width:1.64%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.11%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.63%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.95%;background:#cceeff;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:62.56%;margin:0pt;padding:0pt;"> Outstanding at June 30, 2024 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:9.37%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 5,009,977 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.64%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.11%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> $ </td><td style="vertical-align:bottom;white-space:nowrap;width:10.63%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 4.43 </td><td style="vertical-align:bottom;white-space:nowrap;width:1.85%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.95%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 7.84 </td></tr></table> 2911308 7.60 P6Y3M18D 2532971 1.33 10937 1.33 423365 7.89 5009977 4.43 P7Y10M2D P6Y3M18D 2072021 7.24 P5Y4M24D 2937956 2.46 4836647 232766 1.41 328200 212766 20000 0.10 0.50 2100000 1.50 2 1.33 0.99 824711 2756116 1096865 2728555 1470793 1083064 2454444 2212630 Note 13 – Long-Term Incentive Plan On March 17, 2021, the Company granted options to purchase a total of 5,784,000 shares of common stock to its officers and certain other members of its management team. The options were granted under the Company's existing 2014 Incentive Stock Plan. The options have an exercise price of $19.00, with 375,000 options vesting immediately and the remaining portion vesting upon the achievement of certain equity market capitalization milestones, and revenue and EBITDA operational milestones. For the three months ended June 30, 2024, and 2023, the Company recorded non-cash stock-based compensation expense of $1,409,294 and $1,749,687, respectively, for options that vested or are probable to vest. For the six months ended June 30, 2024, and 2023, the Company recorded non-cash stock-based compensation expense of $2,818,584 and $4,287,631, respectively, for options that vested or are probable to vest. These expenses are presented in the same financial statement line items in the Statements of Operations as the cash-based compensation expenses for the same employees. The fair value of option grants was calculated using a Monte Carlo simulation for the equity market capitalization tranches and the Black-Scholes-Merton option pricing method for the operational milestone tranches. As of June 30, 2024, we had $5,974,737 of total unrecognized stock-based compensation expense for the portion of options tied to equity market capitalization milestones and the portion of options tied to operational milestones that were considered probable of achievement, all of which are being recognized over a service period of up to three to four years. The probabilities of the milestone achievements are subject to catch-up adjustments in each instance where an equity market capitalization milestone is achieved or when an operational milestone becomes probable to be achieved or is achieved. Compensation costs could be reversed in subsequent periods if an awardee leaves the Company prior to the completion of the requisite service period for market capitalization milestone or performance award vesting of a performance award no longer determined to be probable. If such milestones are achieved earlier in their expected service periods, the remaining unrecognized compensation expense related to that particular milestone would be accelerated and recognized in full during the period where that achievement is affirmed by the Board of Directors. As of June 30, 2024, and going forward, should all of the operational milestones which are currently not yet deemed probable of achievement become probable of achievement or are achieved, then the Company could ultimately recognize up to an additional $33.7 million in non-cash stock-based compensation expense at such time. The unvested remaining equity market and operational milestones under the LTIP with their total related option grants and criteria achievement weightings of the options available for meeting a target are shown in the following table. Of the total 5,359,500 unvested options outstanding as of June 30, 2024, there are 2,679,750 unvested options for the achievement of Equity Market Capitalization targets, 1,875,825 unvested options for the achievement of annual revenue targets, and 803,925 unvested options for the achievement of annual EBITDA Margins Before Non-Cash Charges targets. <p style="font-family:'Times New Roman','Times','serif';font-

size:10pt;line-height:1.19;text-indent:36pt;margin:0pt;"> <table style="border-collapse:collapse;font-size:16pt;height:max-content;margin-left:auto;margin-right:auto;padding-left:0pt;padding-right:0pt;width:100%;"><tr style="height:1pt;"><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;border-bottom:1px solid #000000;border-left:1px solid #000000;border-right:1px solid #000000;border-top:1px solid #000000;margin:0pt;padding:0pt;"> Award Potential </td><td colspan="3" style="vertical-align:bottom;white-space:nowrap;width:48.06%;border-bottom:1px solid #000000;border-left:1px solid #000000;border-right:1px solid #000000;border-top:1px solid #000000;margin:0pt;padding:0pt;"> Criteria Achievement Weighting </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;border-bottom:1px solid #000000;border-left:1px solid #000000;border-right:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;border-bottom:1px solid #000000;border-left:1px solid #000000;border-right:1px solid #000000;margin:0pt;padding:0pt;"> 50% of Options Available </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;border-bottom:1px solid #000000;border-left:1px solid #000000;border-right:1px solid #000000;margin:0pt;padding:0pt;"> 35% of Options Available </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;border-bottom:1px solid #000000;border-left:1px solid #000000;border-right:1px solid #000000;margin:0pt;padding:0pt;"> 15% of Options Available </td></tr><tr><td style="vertical-align:middle;width:51.93%;border-bottom:1px solid #000000;border-left:1px solid #000000;border-right:1px solid #000000;margin:0pt;padding:0pt;"> Options Available
(Subject to Vesting) </td><td style="vertical-align:middle;width:16.02%;border-bottom:1px solid #000000;border-left:1px solid #000000;border-right:1px solid #000000;margin:0pt;padding:0pt;"> Equity Market
Capitalization
Target </td><td style="vertical-align:middle;width:16.02%;border-bottom:1px solid #000000;border-left:1px solid #000000;border-right:1px solid #000000;margin:0pt;padding:0pt;"> Last Twelve Months Revenue
Target </td><td style="vertical-align:middle;width:16.02%;border-bottom:1px solid #000000;border-left:1px solid #000000;border-right:1px solid #000000;margin:0pt;padding:0pt;"> Last Twelve Months EBITDA Target </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;margin:0pt;padding:0pt;"><p style="font-family:'Times New

Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;background:#cceeff;margin:0pt;padding:0pt;"> - 680,500 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> $ 2,000,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> $ 25,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 0.0% </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;margin:0pt;padding:0pt;"> - 680,500 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> 3,000,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> - 50,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> 2.0% </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;background:#cceeff;margin:0pt;padding:0pt;"> - 680,500 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 4,000,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 100,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 4.0% </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;margin:0pt;padding:0pt;"> - 680,500 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> 5,000,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> 200,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> 6.0% </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;background:#cceeff;margin:0pt;padding:0pt;"> - 580,500 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 6,000,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 300,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 8.0% </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;margin:0pt;padding:0pt;"> - 580,500 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> 7,000,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> 450,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> 10.0% </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New

Roman','Times','serif';font-size:7pt;line-height:1.19;text-align:right;margin:0pt 2.25pt 0pt 0pt;"> 555,500 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 8,000,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 675,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 12.0% </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;margin:0pt;padding:0pt;"> 485,500 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> 9,000,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> 1,000,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> 14.0% </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 435,500 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 10,000,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 1,500,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 16.0% </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 5,359,500 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td></tr></table> 5784000 19.00 375000 1409294 1749687 2818584 4287631 5974737 P4Y 33700000 5359500 2679750 1875825 803925 <table style="border-collapse:collapse;font-size:16pt;height:max-content;margin-left:auto;margin-right:auto;padding-left:0pt;padding-right:0pt;width:100%;"><tr style="height:1pt;"><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;border-bottom:1px solid #000000;border-left:1px solid #000000;border-right:1px solid #000000;border-top:1px solid #000000;margin:0pt;padding:0pt;"> Award Potential </td><td colspan="3" style="vertical-align:bottom;white-space:nowrap;width:48.06%;border-bottom:1px solid #000000;border-left:1px solid #000000;border-right:1px solid #000000;border-top:1px solid #000000;margin:0pt;padding:0pt;"> Criteria Achievement Weighting </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;border-bottom:1px solid #000000;border-left:1px solid #000000;border-right:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-

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Capitalization
Target </td><td style="vertical-align:middle;width:16.02%;border-bottom:1px solid #000000;border-left:1px solid #000000;border-right:1px solid #000000;margin:0pt;padding:0pt;"> Last Twelve Months Revenue
Target </td><td style="vertical-align:middle;width:16.02%;border-bottom:1px solid #000000;border-left:1px solid #000000;border-right:1px solid #000000;margin:0pt;padding:0pt;"> Last Twelve Months EBITDA Target </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;background:#cceeff;margin:0pt;padding:0pt;"> 680,500 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> $ 2,000,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> $ 25,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 0.0% </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;margin:0pt;padding:0pt;"> 680,500 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> 3,000,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> 50,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> 2.0% </td></tr><tr><td style="vertical-align:bottom;white-

space:nowrap;width:51.93%;background:#cceeff;margin:0pt;padding:0pt;"> 680,500 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 4,000,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 100,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 4.0% </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;margin:0pt;padding:0pt;"> 680,500 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> 5,000,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> 200,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> 6.0% </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;background:#cceeff;margin:0pt;padding:0pt;"> 580,500 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 6,000,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 300,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 8.0% </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;margin:0pt;padding:0pt;"> 580,500 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> 7,000,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> 450,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> 10.0% </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;background:#cceeff;margin:0pt;padding:0pt;"> 555,500 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 8,000,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 675,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 12.0% </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;margin:0pt;padding:0pt;"> 485,500 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> 9,000,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> 1,000,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> 14.0% </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;background:#cceeff;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 435,500 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 10,000,000,000 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;background:#cceeff;margin:0pt;padding:0pt;"> 1,500,000,000 </td><td style="vertical-align:bottom;white-

space:nowrap;width:16.02%;background:#ccceff;margin:0pt;padding:0pt;"> 16.0% </td></tr><tr><td style="vertical-align:bottom;white-space:nowrap;width:51.93%;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 5,359,500 </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:16.02%;margin:0pt;padding:0pt;"> </td></tr></table> 0.50 0.35 0.15 680500 2000000000 25000000 0.000 680500 3000000000 50000000 0.020 680500 4000000000 100000000 0.040 680500 5000000000 200000000 0.060 580500 6000000000 300000000 0.080 580500 7000000000 450000000 0.100 555500 8000000000 675000000 0.120 485500 9000000000 1000000000 0.140 435500 10000000000 1500000000 0.160 5359500 Note 14 – Litigation We are not currently involved in any actual or pending legal proceedings or litigation we consider to be material, and we are not aware of any such material proceedings contemplated by or against us or involving our property. Note 15 – Right-of-Use Assets and Liabilities Future lease payments under operating leases as of June 30, 2024, were as follows: <table style="border-collapse:collapse;font-size:16pt;height:max-content;margin-left:auto;margin-right:auto;padding-left:0pt;padding-right:0pt;width:100%;"><tr style="height:1pt;"><td style="vertical-align:bottom;width:84.68%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:2.8%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.8%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.7%;margin:0pt;padding:0pt;"> </td></tr><tr><td style="vertical-align:bottom;width:84.68%;background:#ccceff;margin:0pt;padding:0pt;"> 2024 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.8%;background:#ccceff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.8%;background:#ccceff;margin:0pt;padding:0pt;"> $ </td><td style="vertical-align:bottom;white-space:nowrap;width:10.7%;background:#ccceff;margin:0pt;padding:0pt;"> 279,262 </td></tr><tr><td style="vertical-align:bottom;width:84.68%;margin:0pt;padding:0pt;"> 2025 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.8%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.8%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.7%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 511,980 </td></tr><tr><td style="vertical-align:bottom;width:84.68%;background:#ccceff;margin:0pt;padding:0pt;"> Total Future Lease Payments </td><td style="vertical-align:bottom;white-space:nowrap;width:2.8%;background:#ccceff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.8%;background:#ccceff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.7%;background:#ccceff;margin:0pt;padding:0pt;"> 791,242 </td></tr><tr><td style="vertical-align:bottom;width:84.68%;margin:0pt;padding:0pt;"> Less: Imputed Interest </td><td style="vertical-align:bottom;white-

space:nowrap;width:2.8%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.8%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.7%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> (44,239) </td></tr><tr><td style="vertical-align:bottom;width:84.68%;background:#cceeff;margin:0pt;padding:0pt;"> Total Lease Liability Balance </td><td style="vertical-align:bottom;white-space:nowrap;width:2.8%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.8%;background:#cceeff;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> $ </td><td style="vertical-align:bottom;white-space:nowrap;width:10.7%;background:#cceeff;border-bottom:3px double #000000;margin:0pt;padding:0pt;"> 747,003 </td></tr></table> The Company has signed lease agreements, with the largest being for its office and manufacturing facility in the West Henrietta, New York area under an operating lease that commenced October 3, 2015. On January 16, 2024, the Company exercised the second renewal extending the current lease term to November 30, 2025. As a result, the Company recorded an additional Right-of-Use asset and Right-of-Use liability of $700,770 on the Consolidated Balance Sheets as of January 16, 2024. Operating lease costs under the operating leases totaled $184,143 and $207,352 for the three months ended June 30, 2024, and 2023, respectively. Operating lease costs under the operating leases totaled $375,648 and $410,691 for the six months ended June 30, 2024, and 2023, respectively. </p><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-indent:36pt;margin:0pt;">As of June 30, 2024, the weighted average discount rate was 8.3% and the weighted average remaining lease term was 1.4 years.</p> <p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;text-indent:36pt;margin:0pt;"></p><table style="border-collapse:collapse;font-size:16pt;height:max-content;margin-left:auto;margin-right:auto;padding-left:0pt;padding-right:0pt;width:100%;"><tr style="height:1pt;"><td style="vertical-align:bottom;width:84.68%;margin:0pt;padding:0pt;"><div style="height:1pt;overflow:hidden;overflow-wrap:break-word;position:relative;"><div style="bottom:0pt;position:absolute;width:100%;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;"></p></div></div></td><td style="vertical-align:bottom;white-space:nowrap;width:2.8%;margin:0pt;padding:0pt;"><div style="height:1pt;overflow:hidden;overflow-wrap:break-word;position:relative;"><div style="bottom:0pt;position:absolute;width:100%;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;"></p></div></div></td><td style="vertical-align:bottom;white-space:nowrap;width:1.8%;margin:0pt;padding:0pt;"><div style="height:1pt;overflow:hidden;overflow-wrap:break-word;position:relative;"><div style="bottom:0pt;position:absolute;width:100%;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;"></p></div></div></td><td style="vertical-align:bottom;white-space:nowrap;width:10.7%;margin:0pt;padding:0pt;"><div style="height:1pt;overflow:hidden;overflow-wrap:break-word;position:relative;"><div style="bottom:0pt;position:absolute;width:100%;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;"></p></div></div></td></tr><tr><td style="vertical-align:bottom;width:84.68%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;">2024</p></td><td style="vertical-align:bottom;white-space:nowrap;width:2.8%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;"></p></td><td style="vertical-align:bottom;white-space:nowrap;width:1.8%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New Roman','Times','serif';font-size:10pt;line-height:1.19;margin:0pt;">$ </td><td style="vertical-align:bottom;white-space:nowrap;width:10.7%;background:#cceeff;margin:0pt;padding:0pt;"> 279,262 </td></tr><tr><td style="vertical-align:bottom;width:84.68%;margin:0pt;padding:0pt;"> 2025 </td><td style="vertical-align:bottom;white-space:nowrap;width:2.8%;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.8%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:10.7%;border-bottom:1px solid #000000;margin:0pt;padding:0pt;"> 511,980 </td></tr><tr><td style="vertical-align:bottom;width:84.68%;background:#cceeff;margin:0pt;padding:0pt;"> Total Future Lease Payments </td><td style="vertical-align:bottom;white-space:nowrap;width:2.8%;background:#cceeff;margin:0pt;padding:0pt;"> </td><td style="vertical-align:bottom;white-space:nowrap;width:1.8%;background:#cceeff;margin:0pt;padding:0pt;"><p style="font-family:'Times New

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