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DELTA REPORT

10-K

BAKKT HOLDINGS, INC.

10-K - DECEMBER 31, 2023 COMPARED TO 10-K - DECEMBER 31, 2022

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TOTAL DELTAS 4413

 CHANGES 182

 DELETIONS 1996

 ADDITIONS 2235

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549

FORM 10-K

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended **December 31, 2022** **December 31, 2023**

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____ to _____
Commission File Number: 001-39544

Bakkt Holdings, Inc.

(Exact Name of Registrant as Specified in its Charter)

Delaware

98-1550750

(State or other jurisdiction of
incorporation or organization)

(I.R.S. Employer
Identification No.)

10000 Avalon Boulevard, Suite 1000
Alpharetta, Georgia

30009

(Address of principal executive offices)

(Zip Code)

Registrant's telephone number, including area code: (678) 534-5849

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Class A Common Stock, par value \$0.0001 per share	BKKT	New York Stock Exchange
Warrants to purchase Class A Common Stock	BKKT WS	New York Stock Exchange

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes No

Indicate by check mark whether the registrant (1) has 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 the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes No

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 the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer	<input type="checkbox"/>	Accelerated filer <input type="checkbox"/>
Non-accelerated filer	<input checked="" type="checkbox"/>	Smaller reporting company <input type="checkbox"/>
Emerging growth company	<input checked="" type="checkbox"/>	

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 Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report.

If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an error to previously issued financial statements.

Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant's executive officers during the relevant recovery period pursuant to §240.10D-1(b).

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes No

The aggregate market value of the voting and non-voting common equity held by non-affiliates of the registrant as of **June 30, 2022** **June 30, 2023** was approximately **\$160.1 million** **\$107.5 million**. Shares of the registrant's Class A common stock Common Stock and shares of the registrant's Class V Common Stock held by each executive officer and director and by each other person who may be deemed to be an affiliate of the registrant have been excluded from this computation. This calculation does not reflect a determination that certain persons are affiliates of the registrant for any other purpose.

As of **March 20, 2023** **March 18, 2024**, there were **82,287,949** **141,798,069** shares of the registrant's Class A common stock, **183,279,887** **179,883,479** shares of Class V common stock, and 7,140,808 public warrants issued and outstanding.

Documents Incorporated by Reference

Portions of the registrant's Proxy Statement relating to the **2023** **2024** Annual Meeting of Stockholders are incorporated by reference into Part III of this Annual Report on Form 10-K. The Proxy Statement will be filed with the Securities and Exchange Commission within 120 days after the end of the registrant's fiscal year ended **December 31, 2022** **December 31, 2023**.

-1-

Table of Contents

TABLE OF CONTENTS

	Page
PART I	
Item 1. Business	5
Item 1A. Risk Factors	15 27
Item 1B. Unresolved Staff Comments	59 73
Item 1C. Cybersecurity	73
Item 2. Properties	59 75
Item 3. Legal Proceedings	59 75
Item 4. Mine Safety Disclosure	59 76
PART II	
Item 5. Market for Registrant's Common Equity, Related Stockholder Matters, and Issuer Purchases of Equity Securities	60 77
Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations	60 77
Item 7A. Qualitative and Quantitative Disclosures About Market Risk	81 97
Item 8. Financial Statements and Supplementary Data	82 98
Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure	137 148
Item 9A. Controls and Procedures	137 148
Item 9B. Other Information	137 148
Item 9C. Disclosure regarding foreign jurisdictions that prevent inspections.	137 148
PART III	
Item 10. Directors, Executive Officers and Corporate Governance	138 149
Item 11. Executive Compensation	138 149
Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters	138 149
Item 13. Certain Relationships and Related Transactions, and Director Independence	138 149
Item 14. Principal Accountant Fees and Services	138 149
PART IV	
Item 15. Exhibit and Financial Statement Schedules	139 150
Item 16. Form 10-K Summary	142 153

-2-

CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

Unless the context otherwise requires, all references to "Bakkt," "we," "us," "our," or the "Company" in this Annual Report on Form 10-K (this "Report") refer to Bakkt Holdings, Inc. and its subsidiaries.

This Annual Report on Form 10-K contains forward-looking statements within the meaning of the federal securities laws, which statements involve substantial risks and uncertainties. Forward-looking statements generally relate to future events or our future financial or operating performance. You can identify forward-looking statements because they contain words such as "anticipate," "believe," "continue," "could," "estimate," "expect," "intends," "may," "might," "plan," "possible," "potential," "predict," "project," "should," "will," "would," the negative of such terms, and other similar expressions are intended to identify forward-looking statements. These forward-looking statements are based on management's current expectations, assumptions, hopes, beliefs, intentions and strategies regarding future events and are based on currently available information as to the outcome and timing of future events. We caution you that these forward-looking statements are subject to all of the risks and uncertainties, most of which are difficult to predict and many of which are beyond our control, incident to our business. Forward-looking statements in this Annual Report on Form 10-K may include, for example, statements about:

- our future financial performance;
- changes in the market for our products and services;
- the expected timing and impact of benefits we will realize from our acquisition of Apex (as defined below) Crypto LLC, which we have since renamed Bakkt Crypto Solutions, LLC ("Bakkt Crypto");
- us closing the remaining portion of our February 2024 financings on the timeline expected or at all; and
- expansion plans and opportunities, opportunities, including our plans to expand to international markets.

These forward-looking statements are based on information available as of the date of this Annual Report on Form 10-K and management's current expectations, forecasts and assumptions, and involve a number of judgments, known and/or unknown risks and uncertainties. Accordingly, forward-looking statements should not be relied upon as representing our views as of any subsequent date. We do not undertake any obligation to update any forward-looking statement to reflect events or circumstances after the date they were made, whether as a result of new information, future events or otherwise, except as may be required under applicable law.

You should not place undue reliance on these forward-looking statements. Should one or more of a number of known and unknown risks and uncertainties materialize, or should any of our assumptions prove incorrect, our actual results or performance may be materially different from those expressed or implied by these forward-looking statements. Some factors that could cause actual results to differ include, but are not limited to:

- our ability to grow and manage growth profitably;
- our ability to continue as a going concern;
- changes in our business strategy;
- changes in the market in which we compete, including with respect to our competitive landscape, technology evolution or changes in applicable laws or regulations;
- our inability to maintain the listing of our securities on the New York Stock Exchange (the "NYSE");
- changes in the markets that we target;
- disruptions in the crypto market that subject us to additional risks, including the risk that banks may not provide banking services to us;
- the possibility that we may be adversely affected by other economic, business, and/or competitive factors;

-3-

- the inability to launch new services and products or to profitably expand into new markets and services; services, or the inability to continue offering existing services or products;
- the inability to execute our growth strategies, including identifying and executing acquisitions and our initiatives to add new clients;
- our ability to obtain all the necessary approvals to close our acquisition of Apex, successfully integrate the Apex business and employees, and to achieve the expected benefits from the acquisition; acquisition of Bakkt Crypto;
- our failure to comply with extensive government regulation, oversight, licensure and appraisals;
- uncertain regulatory regime governing blockchain technologies and crypto;

-3-

Table of Contents

- the inability to develop and maintain effective internal controls and procedures;
- the exposure to any liability, protracted and costly litigation or reputational damage relating to our data security;
- the impact of any goodwill or other intangible assets impairments on our operating results;
- the impact of any pandemics or other public health emergencies;
- our inability to maintain the listing of our securities on the NYSE; and
- other risks and uncertainties indicated in this Annual Report on Form 10-K, including those set forth under "Risk Factors."

-4-

Table of Contents

PART I

Item 1. Business

Overview

In this section and elsewhere in this Annual Report on Form 10-K, we use the following terms, which are defined as follows:

- **Client** "Client" means businesses with whom we contract to provide services to customers on our platform, and includes financial institutions, hedge funds, merchants, retailers, third party partners, and other businesses (except in the accompanying notes to the consolidated financial statements, where we refer to revenue earned from customers, instead of clients. The term customers is in accordance with the Financial Accounting Standards Board ("FASB") Accounting Standards Codification ("ASC") Topic 606, *Revenue from Contracts with Customers*.)
- **Cryptoassets "Crypto" or "Crypto asset" (or crypto)** means an asset that is built using blockchain technology, including virtual currencies (as used in the State of New York), coins, cryptocurrencies, stablecoins, and other tokens. Our platform enables transactions in certain supported cryptocurrencies, crypto assets. For purposes of this Form 10-K, we use crypto assets, virtual currency, coins, and tokens interchangeably.
- **Customer "Customer"** means an individual user of our platform. Customers include customers of our loyalty clients who use our platform to transact in loyalty points, as well as customers of our clients who transact in crypto through, and have accounts on, our platform (except as defined for ASC 606 purposes above).
- **Loyalty points points** means loyalty and/or reward points that are issued by clients to their customers.

Founded in 2018, Bakkt operates technology that connects the digital economy by offering a platform for crypto and redeeming loyalty points. We enable enables our clients to deliver new opportunities to their customers through an interactive web experience or API Software as a Service ("SaaS") and Application Programming interface ("API") solutions that unlock crypto and drive loyalty, powering engagement and performance. The global market for crypto, while nascent, is rapidly evolving and expanding. We believe we are well-positioned to provide secure, licensed innovative, multi-faceted product solutions and grow with this evolving market. We believe our Our platform is well positioned to power commerce by enabling consumers, brands, businesses, institutions, and financial institutions consumers, to better manage, transact with and monetize crypto.

Our platform is built to operate across various crypto in exciting new ways. Unless otherwise expressly stated assets and offers clients the flexibility to choose some or the context otherwise requires, references to "we," "our," "us," the "Company," or "Bakkt" refer (i) prior to the closing all of our business combination with VPC Impact Acquisition Holdings ("VIH") (capabilities, and the "Closing"), manner in which these capabilities are enabled for consumers, based on their needs and objectives. Some clients may choose to Bakkt Opco Holdings, LLC (f/k/a our capabilities directly in their experience, while others may want a Bakkt Holdings LLC, "Opc") "ready-to-go" storefront and its subsidiaries and (ii) after the Closing, to Bakkt Holdings, Inc. and its subsidiaries, including Opc.

leverage capabilities such as our web-based technology. Our institutional-grade technology platform, is at the core of everything we do. It is secure and licensed, born out of our heritage with our former parent company, Intercontinental Exchange, Inc. ("ICE") (NYSE: ICE). Through these elements, we provide, or are working to provide, simplified solutions focused in the following areas:

Crypto

- **Custody.** Our institutional-grade qualified custody solution caters to more experienced market participants. Institutions appreciate the highly secure and compliance-focused infrastructure we have built to store crypto. Crypto that we custody is held by our subsidiary, Bakkt Trust Company LLC, supports "know your customer" ("Bakkt Trust"), a limited purpose trust company that is supervised by the New York State Department of Financial Services ("NYDFS" KYC) and governed by an independent Board of Managers.

- **Crypto Connect.** Our platform provides consumers, businesses and institutions with the ability to buy, sell and store crypto in a simple, intuitive digital experience accessed via application programming interfaces anti-money laundering ("APIs" AML) or embedded web experience. We aim to enable businesses in various industries - such as fintechs, financial institutions and wallet providers - to provide their customers with the ability to transact in crypto directly in their trusted environments.

-5-

Table of Contents

- **Crypto Rewards.** We are in the process of enabling clients of all sizes to offer loyalty and rewards to their customers in the form of crypto – either by earning crypto rewards, or by redeeming existing reward currencies, such as points or miles, into crypto. We believe this capability will enhance brands' existing loyalty programs and attract younger, affluent, digital-native audiences and to increase loyalty with existing customers by offering the potential to increase the long-term value of their rewards.
- **Crypto Payouts.** We are in the process of enabling consumers to automatically invest a portion of payments into crypto. Crypto payouts allow for new cases (for instance, for gig economy or marketplace participants such as freelancers, content providers, and delivery workers to receive their wages in crypto).

Loyalty

- We offer a full spectrum of content that clients can make available to their customers when redeeming loyalty currencies, thus driving consumer loyalty and engagement. Our redemption solutions span a variety of rewards categories including merchandise (such as Apple products and services), gift cards and digital experiences. Our travel solution offers a retail e-commerce booking platform with a powerful search capability, as well as live-agent booking and servicing. Our platform provides a unified shopping experience that is configurable for companies and their programs. Capabilities include a mobile-first user experience, a multi-tier construct to accommodate loyalty tiers, comprehensive fraud protection capabilities, and a split-tender payments platform other anti-fraud measures to accept both points and credit cards as a form of payment. We recognize that businesses want to offer consumers choice, innovation and a frictionless experience, and our platform was constructed with this in mind.combat financial crime.

We have thoughtfully built a unique and powerful platform, melding together institutional-grade loyalty services to complement our institutional-grade crypto capabilities. Our platform capabilities include end-to-end services, including easily digestible technology services, 24/7 customer support and marketing playbooks, for our clients. The power of these activities on our platform drives our vision – connecting the digital economy – for Bakkt and our clients.

Our Corporate Structure

We own and consolidate entities formed during operate primarily through the year ended December 31, 2019, including following entities:

Bakkt Trust and Marketplace: Bakkt Marketplace, LLC ("Bakkt Marketplace"). We also own and consolidate Bakkt Crypto Solutions, LLC ("Bakkt Crypto") - through these entities we operate integrated platforms that were acquired during provide customers with the year ended December 31, 2019, including DACC Technologies, Inc., Digital Asset Custody Company, Inc. (collectively with DACC Technologies, Inc., "DACC" ability to buy, sell and store crypto in a simple, intuitive digital experience accessed via APIs or embedded web experience. Bakkt Marketplace holds a New York State virtual currency license (commonly referred to as a "BitLicense"), and money transmitter licenses from all states throughout the United States ("U.S.") where such licenses are required for the operation of its business, and is registered as a money services business with the Financial Crimes Enforcement Network of the U.S. Department of the Treasury. Bakkt Clearing, Crypto similarly holds a BitLicense and money transmitter licenses in various states, where its business requires. Currently, all of the outstanding equity interests of Bakkt Crypto are held by Bakkt Marketplace. The Bakkt Crypto and Bakkt Marketplace platforms generally are operated separately, though Bakkt Marketplace provides fiat funding services to Bakkt Crypto in instances where a client does not have that capability. The Bakkt Marketplace platform

-5-

was originally conceived and built in connection with a consumer app that enabled crypto asset transactions, and, at the time, represented a direct-to-consumer business model, which is no longer being pursued by the Company. In contrast, the Bakkt Crypto platform was originally conceived and built as an embedded crypto trading platform that would be integrated into client environments to service customers in those environments. In March of 2024, we obtained approval to merge Bakkt Crypto with and into Bakkt Marketplace, with the surviving entity of the merger to be renamed Bakkt Crypto Solutions, LLC. The two platforms will be combined into one business, which will be operated by the surviving entity. Similar to the Bakkt Crypto business model, the combined business will focus on a client-led, or "business-to-business-to-consumer" ("B2B2C"), strategy in which crypto asset solutions can be embedded into client environments.

Bakkt Crypto: In April 2023, we acquired Apex Crypto LLC ("Apex Crypto"), a platform for integrated crypto trading, which we renamed Bakkt Crypto. This platform supports clients with a range of crypto solutions. We are leveraging Bakkt Crypto's proprietary trading platform and existing relationships with liquidity providers to provide a wider range of crypto assets and competitive pricing to our customers. Bakkt Crypto complements our B2B2C growth strategy by broadening our business partnerships to broker-dealers, registered investment advisors, fintechs and neo-banks. Specifically, Bakkt Crypto offers customers the ability to purchase, sell, store and, in approved jurisdictions, deposit and withdraw approved crypto assets, all from within the applications of our clients with whom customers already have a relationship. Using Bakkt Crypto's platform, customers can purchase approved crypto assets, store crypto assets in custodial wallets, liquidate their holdings, and transfer supported crypto assets between a custodial wallet maintained by Bakkt Crypto and external wallets in certain jurisdictions, if enabled by the client.

As part of our acquisition of Bakkt Crypto, we also acquired its agreements with more than 30 third-party partners pursuant to which the partners made Bakkt Crypto's crypto asset trading service available to their customer base. The agreements with these third-party fintech partners (referred to as clients) provide for licensing of their front-end trading platforms by Bakkt Crypto and cooperation between the parties in facilitating customers' transactions in crypto assets. The agreements are for a term of either one or two years and can be terminated by either party for breach or in case of a change of control. In most cases, the agreements also contain provisions giving Bakkt Crypto discretion in the choice of crypto assets offered to each client through its platform and, in some cases, exclusivity covenants pursuant to which clients have agreed not to refer their customers to other crypto asset trading platforms.

Bakkt Crypto is regularly exploring additional ways to innovate and provide additional products and services to its clients. Bakkt Crypto is in the process of developing, subject to applicable regulatory approvals, a solution to facilitate international remittances where users can remit fiat currency, with Bakkt leveraging crypto rails to settle the transaction, and conversion of certain loyalty and rewards points into supported crypto assets. We are actively pursuing opportunities to provide crypto asset trading services in jurisdictions outside of the United States, including the United Kingdom, Hong Kong, Spain and throughout Latin America, subject to applicable local regulatory approvals. Bakkt Crypto is currently live with customers in Europe, Latin America and Asia. Bakkt Crypto executes a de minimis amount of trades for entity accounts in jurisdictions other than the State of New York. Subject to applicable regulatory approvals, Bakkt Crypto intends to expand the provision of trading services for institutional clients.

Bakkt Trust: Bakkt Trust Company LLC ("Bakkt Clearing" Trust), formerly known as Rosenthal Collins Group, L.L.C. We also acquired the group of affiliates companies that operates under the name Bridge2 Solutions in February 2020.

Bakkt Trust is a New York limited-purpose trust company that is chartered by and subject to the supervision and oversight of NYDFS. In September 2019, New York Department of Financial Services ("NYDFS") and governed by an independent Board of Managers. Bakkt Trust along with IFUS provides our institutional-grade qualified custody solution, which caters to more experienced market participants and ICUS, both of which are wholly-owned subsidiaries of ICE, brought to market an institutional-grade, regulated infrastructure for trading, clearing, and custody services for bitcoin futures. Bakkt Trust acts as a qualified custodian for bitcoin and ether, which enables Bakkt Trust to offer end-to-end regulated, physically-delivered bitcoin futures and options contracts to financial institutions and market makers. In addition, Bakkt Trust offers non-trading-related, standalone custody of bitcoin and ether to institutions and certain high net worth individuals in crypto.

Bakkt Marketplace operates an integrated platform that enables consumers and enterprises to transact in also supports our consumer-facing crypto. Bakkt Marketplace users are able to purchase, sell, auto-invest or earn crypto. Bakkt Marketplace has received money transmitter licenses from all states throughout the U.S. where such licenses are required, has obtained a New York State virtual currency license, and is registered as a money services business with the Financial Crimes Enforcement Network of the United States Department of the Treasury. business. Bakkt Trust's custody solution also provides support to Bakkt Marketplace with respect to bitcoin all crypto assets supported by the Company. See "—Crypto Assets and ether functionality. Services Offered by Bakkt."

Bakkt Brokerage: We acquired Bumped Financial, LLC (which we have since renamed Bakkt Brokerage, LLC, "Bakkt Brokerage"), a registered broker-dealer, in February 2023. Bakkt Brokerage is not engaged in any business activities at this time and we have no current plans for it to engage in future business activities.

-6-

Table of Contents

Bakkt Clearing was registered as a futures commission merchant ("FCM") with Loyalty Solutions: We operate our Loyalty Solutions business primarily in the Commodity Futures Trading Commission ("CFTC") United States and a member of in Canada under the National Futures Association ("NFA"). On May 20, 2022, Bakkt Clearing withdrew its registration with CFTC and membership in NFA, which was effective on June 20, 2022.

Bakkt's white label loyalty redemption platform is largely carried on by its subsidiary, legal entities Bridge2 Solutions, LLC, Bridge2 Solutions Canada Ltd and Aspire Loyalty Travel Solutions, LLC. This business enables clients (including financial institutions, airlines and other loyalty sponsors) to enable their customers - who hold their loyalty points - to redeem those points for items including travel and merchandise. To that end, our Loyalty Solutions business enables point redemption and fulfillment (including travel reservations).

Crypto Market Developments

Over approximately the last eighteen months, the crypto markets were impacted by, among other developments, significant decreases and volatility in crypto asset prices, a loss of confidence in many participants in the crypto asset ecosystem, regulatory actions and adverse publicity around specific companies, the crypto industry and crypto assets more broadly, including as a result of continued industry-wide consequences from the Chapter 11 bankruptcy filings of crypto asset exchange FTX, crypto hedge fund Three Arrows, crypto miners Compute North and Core Scientific, and crypto lenders Celsius Network, Voyager Digital and BlockFi. In addition, the liquidity of the crypto asset markets has been adversely impacted by these bankruptcy filings as, among other things, certain entities affiliated with FTX and other former participants had engaged in significant trading activity. Although we did not have any exposure to these companies, and we do not have material assets that may not be recovered or may otherwise be lost or misappropriated due to the bankruptcies, we were nonetheless impacted by, and continue to be impacted by, the broader conditions in the crypto markets.

The crypto markets also have been and continue to be impacted by the broader macroeconomic conditions, including the strength of the overall macroeconomic environment, high and rising interest rates, spikes in inflation rates, general market volatility, and geopolitical concerns. We expect the macroeconomic environment and the state of the crypto markets to remain dynamic in the near-term.

In addition, crypto assets and crypto market participants have recently faced increased scrutiny by regulators. For example, in 2023, the SEC has brought charges against a number of crypto asset exchanges, including Bittrex, Coinbase, Binance, Kraken, and other crypto asset service providers, identifying a number of crypto assets as securities and alleging violations of, and non-compliance with, U.S. federal securities laws. We continue to monitor regulatory developments in this area and assess our business model and the assets we support in light of such developments. For more information see "—Regulation—Regulation of Our Virtual Currency Business," below.

Crypto Assets and Services Offered by Bakkt

Retail Customers

We currently provide, or intend to provide, the following crypto-related services for retail customers. These services are provided through our clients which together have a direct relationship with such customers and utilize our trading platform and custody services.

- crypto asset trading;
- custody services for the crypto assets supported for trading;
- external transfers of crypto assets (through Bakkt Crypto); and
- crypto rewards (expected to become available in the first half of 2024).

Our management regularly considers whether to make any potential additional crypto assets available on our platform, consistent with our policies and procedures. See “*Policies and Procedures—Listing-Related Policies*.”

Bakkt Crypto, Bakkt Marketplace and Bakkt Trust facilitate transactions in, and provide services for, the crypto assets listed in the tables below.

Bakkt Marketplace / Bakkt Crypto

-7-

Crypto Asset	Symbol	Supported For		
		Trading	Transfers	Rewards
Bitcoin	BTC	Yes	Yes*	No, planned first half 2024
Bitcoin Cash	BCH	Yes	Yes*	No
Dogecoin	DOGE	Yes*	Yes*	No
Ethereum	ETH	Yes	Yes*	No
Ethereum Classic	ETC	Yes*	Yes*	No
Litecoin	LTC	Yes	Yes*	No
Shiba Inu	SHIB	Yes*	Yes*	No
USD Coin	USDC	Yes*	Yes*	No

* Except for the State of New York

Bakkt Trust

Crypto Asset	Symbol	Supported For	
		Custody	Transfers
Bitcoin	BTC	Yes	Yes
Bitcoin Cash	BCH	Yes	Yes
Dogecoin	DOGE	Yes	Yes
Ethereum	ETH	Yes	Yes
Ethereum Classic	ETC	Yes	Yes
Litecoin	LTC	Yes	Yes
Shiba Inu	SHIB	Yes	Yes
USD Coin	USDC	Yes	Yes

Our management regularly considers whether to make any potential additional crypto assets available on our platform, consistent with our policies and procedures. See “*Policies and Procedures - Listing-Related Policies*.”

Following the acquisition of Bakkt Crypto, and as further detailed in the table below, we delisted 37 of the 45 crypto assets that had historically been available for trading on the Bakkt Crypto platform. We first requested the delisting of certain crypto assets from the Bakkt Crypto platform in connection with our due diligence review of the Bakkt Crypto business in 2022. Following the closing of our acquisition of Bakkt Crypto on April 1, 2023, and in light of regulatory developments, we undertook an updated review of all crypto assets then available on the Bakkt Crypto platform and determined that it was appropriate to delist certain additional assets. This review took into account a number of factors, including: (i) scores assigned to each crypto asset based on a rating framework that weighs various factors drawn from SEC and judicial sources; (ii) whether the crypto asset was sold in an initial coin offering; (iii) whether the crypto asset was backed by a single entity; and (iv) whether the crypto asset used “proof of stake” validation. Our review also accounted for the potential impacts of delisting on our clients and customers. We have also directed the delisting of certain crypto assets in response to charges recently filed by the

SEC against crypto asset exchanges alleging that those crypto assets are securities. We believe that these delistings will not have a material impact on our business and results of operations in future periods. While the delisted crypto assets represented approximately 15% of gross profit of Bakkt Crypto at the time of its acquisition by the Company, many of these crypto assets constitute what is referred to in the fintech industry as "meme coins." Historically, many meme coins have been subject to anecdotal spikes in trading activity that may not repeat for a protracted period of time if at all. In implementing our coin delisting decisions, we have attempted to mitigate impacts on our business and our clients and customers by affording customers a period in which to exit their positions in the impacted crypto assets as part of an orderly wind-down. We expect our listing and delisting decisions to continue to evolve based on relevant regulatory and judicial precedent.

-8-

Crypto Asset (Symbol)	Date of Delisting
AMP	December 6, 2022
CRO; DASH; ONE; LUNA; LUNC; ZEC	February 15, 2023
ALGO; MANA	April 21, 2023
COMP; GALA; YFI; LRC; ICP; BAT; LINK; APE; MKR; REN; BNT; SNX; ATOM; GRT; AAVE; FIL; XTZ; AVAX; UNI; XLM; CHZ; SUSHI; CRV; ENJ; FTM; SOL; ADA; MATIC	September 19, 2023

Crypto Asset Trading

We have agreements with clients that entitle us to receive recurring subscription revenues in the form of platform fees from clients for the use of our platforms by their customers.

Customers may purchase approved crypto assets directly through Bakkt Crypto utilizing one of four funding sources:

- the customer's fiat wallet (see Fig. 1 below);
- the customer's Banking as a Service ("BaaS") provider account (see Fig. 2 below);
- the customer's brokerage account (see Fig. 3 below); or
- the customer's points/rewards account with a participating loyalty client (see Fig. 4 below, expected to become available in the first half of 2024).

Customers may sell crypto assets through Bakkt Crypto. The sale proceeds from a sale can be directed to one of three potential customer accounts:

- the customer's fiat wallet (see Fig. 5 below);
- the customer's BaaS account (see Fig. 6 below); or
- the customer's brokerage account (see Fig. 7 below).

The funding source is specific to the client relationship through which the customer account was opened and is not specified by the individual customer account holder. For example, if a customer opens an account with a client where trades are funded via a BaaS relationship, all sale and purchase transaction-related funds will flow through the customer's BaaS account. Customers submit all purchase and sale orders through the user interface of the client with which they have opened an account.

With respect to customer purchase and sale orders, Bakkt Crypto operates as a riskless principal and offsets each customer order it fills by routing a corresponding order to a liquidity provider on a one-to-one basis. Bakkt Crypto settles its transactions with liquidity providers on a net basis. For more information, see "—Crypto Assets and Services Offered by Bakkt—Crypto Asset Trading—Liquidity Providers" below.

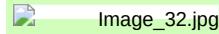
Customers can submit an order request to purchase crypto assets by specifying the dollar value or coin quantity that they wish to purchase. The client's user interface displays the estimated price or quantity, as applicable, as well as any transaction fees.

Before sending a purchase order request, the client must verify that sufficient funds are available in the applicable customer funding source. If the customer account has sufficient funds, the client then sends the order to Bakkt Crypto. Upon receipt of the purchase order, Bakkt Crypto accepts and processes the purchase order and records any order fill transactions on Bakkt Crypto's internal ledger. Bakkt Crypto recognizes the revenue from markup and/or trade fees at this time in the flow using explicit journal types in the transaction ledging.

-9-

If the customer's funding source is a fiat wallet, Bakkt Marketplace will debit the customer's fiat wallet on its internal ledger. During the daily net settlement period fiat funds are transmitted from the for benefit of ("FBO") account to the Bakkt Crypto transaction account.

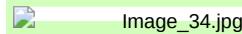
Fig. 1 Crypto Assets Purchase Through A Fiat Wallet



If the customer's funding source is a BaaS account, Bakkt Crypto sends a message to the client that a trade has been executed. The client then instructs the BaaS provider to transfer the funds from the customer's BaaS account to its BaaS FBO account. The BaaS provider will debit the customer's fiat wallet on its internal ledger. During the daily batch settlement period, fiat funds are transmitted from the BaaS FBO account to the Bakkt Crypto transaction account.

A BaaS account is one where a client, through its banking relationships, offers customers the ability to withdraw fiat currency from, or transfer or deposit fiat currency into, the customer's BaaS account with that client. In those instances, those customers would utilize their BaaS account to purchase supported crypto assets from Bakkt Crypto, as depicted in Figure 2, below, and to deposit the proceeds of sales of supported crypto assets to Bakkt Crypto, as depicted in Figure 6, below. Our client, not the Company, maintains the relationship with the BaaS provider and the Company is not itself regulated as a bank.

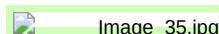
Fig. 2 Crypto Assets Purchase Through A Customer's BaaS Account



If the customer's funding source is a brokerage account, Bakkt Crypto sends a message to ledger the funds from the customer's brokerage account at the brokerage's clearing firm to Bakkt Crypto brokerage account at the brokerage's clearing firm. During the daily batch settlement period, fiat funds are transmitted from the Bakkt Crypto brokerage account to the Bakkt Crypto transaction account.

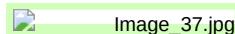
-10-

Fig. 3 Crypto Assets Purchase Through A Customer's Brokerage Account



If the customer's funding source is a points account at a points/rewards client, Bakkt Crypto will debit the customer's points account. During the daily batch settlement, funds are transferred from the rewards client account to the Bakkt Crypto transaction account.

Fig. 4 Crypto Assets Purchase Through A Customer's Points/Rewards Account

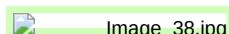


For sales, customers submit an order request via the client with which they have a relationship to Bakkt Crypto to sell crypto assets by specifying the dollar value or quantity that they wish to sell. For market orders, the client displays the estimated price or estimated quantity, which is inclusive of any markup. If the client is charging any trade fees, those will be displayed and included in the total trade value. Once confirmed by the customer, the order is then sent to Bakkt Crypto by the client. Upon receipt of the order, Bakkt Crypto accepts and processes the sale order and records the order fill transaction on Bakkt Crypto's internal ledger by recording a debit to the customer's crypto asset account.

If the customer's funding source is a fiat wallet, Bakkt Marketplace will credit the customer's fiat wallet on its internal ledger. During the daily batch settlement period, fiat funds are transmitted from the Bakkt Crypto transaction account to the FBO account.

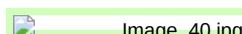
-11-

Fig. 5 Crypto Assets Sale with proceeds to the Customer's Fiat Wallet Hosted by Bakkt Crypto



If the customer's funding source is a BaaS account, Bakkt Crypto sends a message to the client that a trade has been executed. The client then instructs the BaaS provider to transfer the funds from its BaaS FBO account to the customer's BaaS account. The BaaS will credit the customer's fiat wallet on its internal ledger. During the daily batch settlement period, fiat funds are transmitted from the Bakkt Crypto transaction account to the BaaS FBO account.

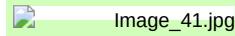
Fig. 6 Crypto Assets Sale with Proceeds to the Customer's BaaS Account



If the customer's funding source is a brokerage account, Bakkt Crypto sends a message to ledger the funds from the Bakkt Crypto brokerage account at the brokerage's clearing firm to the customer's brokerage account at the brokerage's clearing firm. During the daily batch settlement period, fiat funds are transmitted from the Bakkt Crypto transaction account to the Bakkt Crypto brokerage account.

-12-

Fig. 7 Crypto Assets Sale with Proceeds to the Customer's Brokerage Account



Liquidity Providers

Bakkt Crypto currently has relationships with seven liquidity providers, with at least three providers servicing each supported crypto asset in order to provide consistent liquidity. Bakkt Crypto utilizes a proprietary, internal system to aggregate quotes from its liquidity providers by asset, side, price and size, which Bakkt Crypto uses to determine what quotes to provide, as principal, to its clients for display to customers.

To fill customer orders as a riskless principal, the Bakkt Crypto platform compares customer orders to the aggregated best bid or offer prices quoted by Bakkt Crypto's liquidity providers. If a customer order is marketable, Bakkt Crypto routes an offsetting order for its own account, on a one-to-one basis, to the liquidity provider quoting the best price. Customers may place market orders or limit orders on the Bakkt Crypto platform. Market orders are, by definition, marketable when they are placed. As such, when a customer market order is received, Bakkt Crypto will offset that order by routing an order for its own account to the relevant liquidity provider on an "immediate or cancel" basis. Limit orders may be marketable when they are placed or may become marketable when the aggregated market price, as determined by Bakkt Crypto's proprietary internal system, aligns with the limit price selected by the customer. The Bakkt Crypto platform holds customer limit orders that are not marketable at the time they are placed on Bakkt Crypto's internal order book and evaluates such orders for marketability on an ongoing basis as liquidity providers change their best bid or offer prices. Should a customer limit order become marketable as the aggregated best price changes, the Bakkt Crypto platform would, at that point, place an offsetting order for its own account with a liquidity provider.

Upon receipt of a fill confirmation from the liquidity provider servicing one of Bakkt Crypto's offsetting orders, Bakkt Crypto will fill the corresponding customer transaction out of its own account, as riskless principal. In other words, the Bakkt Crypto platform is structured to execute the offsetting order for Bakkt Crypto's own account prior to executing the corresponding customer order.

Bakkt Crypto has written agreements with all of its liquidity providers. Under these agreements, Bakkt Crypto is granted access to proprietary trading platforms of the liquidity providers for the purpose of placing orders for purchase or sale of crypto assets. Bakkt Crypto acts as principal in such transactions with liquidity providers. Orders cannot be withdrawn, cancelled or amended. After the liquidity provider accepts the order, it issues a transaction confirmation. The parties then are obligated to deliver fiat currency and crypto assets according to the terms of the transaction. The agreements contain customary representations and warranties and confidentiality, limitation of liability and indemnification provisions. The agreements do not have a set term and generally may be cancelled by either party for convenience on prior written notice of 30 to 60 days, with some agreements providing for no such notice obligations or a notice obligation of seven days.

-13-

Settlement is conducted on a net basis on the blockchain supporting the crypto asset. Bakkt Crypto is not required to pre-fund any transactions with liquidity providers. Instead, Bakkt Crypto settles with liquidity providers on a daily basis; however, in instances where a liquidity provider's settlement balance is less than \$30,000 for a given token, or \$50,000 across all tokens, Bakkt Crypto will settle with those liquidity providers on the last business day of the applicable month, or when the settlement balance exceeds those levels, if sooner. At settlement, fiat currency and crypto assets are exchanged to settle trading obligations from the previous period. In periods of heavy trading volumes, Bakkt Crypto and the liquidity providers may agree to perform more frequent settlements in order to decrease the exposure of unsettled transactions.

Custody Services for the Crypto Assets Supported for Trading

Prior to the acquisition of Bakkt Crypto, we did not use third party custodians, other than minimal amounts at liquidity providers that also provide custody for the purpose of facilitating trading and settlement. In connection with our acquisition of Bakkt Crypto, we acquired third-party custodial relationships with Coinbase Custody Trust Company ("Coinbase Custody") and BitGo Trust Company ("BitGo"), which are currently used by Bakkt Crypto for custody and crypto asset transfers, where applicable. In addition, Bakkt Crypto also self-custodies select crypto assets (less than 8% of total customer crypto assets were self-custodied as of December 31, 2023) to facilitate customer withdrawals utilizing the Fireblocks Vault service. Self-custodying customer crypto assets through the use of Fireblocks third-party custody software involves risks related to our reliance on the third party for certain services. These include the implementation of Secure Multi-Party Computation (MPC) key creation software, the provision of software that facilitates a Secure Transfer Environment for the transfer of crypto assets, and workflow authorization functionality ensuring that only Bakkt acquired Crypto specified authorized persons are able to access the wallets for authorized purposes.

Under the BitGo Custody Agreement, BitGo, at Bakkt Crypto's direction, establishes and maintains wallets for the storage of crypto assets, including cold wallets where BitGo holds all of the keys, and all of those keys are stored offline ("Vault"). BitGo serves as custodian of crypto assets stored in February 2020, these wallets. BitGo is required to use reasonable best efforts to keep all custodial coins received by BitGo in safe custody on behalf of Bakkt Crypto and to keep all keys to the custodial wallet held by BitGo secure

and to maintain at least one backup key. BitGo is also required to exercise all reasonable best efforts to prevent unauthorized access to or use of the keys held by BitGo to the custodial wallet. Bakkt Crypto does not have inspection rights under the BitGo Custody Agreement. The BitGo Custody Agreement has an initial one-year term and renews automatically for successive one-year periods unless either party provides notice to the other party of its intent not to renew at least 60 days prior to the expiration of the then-current term.

Under the Coinbase Custody Agreement, Coinbase Custody provides Bakkt with a segregated custody account controlled and secured by Coinbase Custody to store certain crypto assets supported by Coinbase Custody on Bakkt Crypto's behalf. Crypto assets in the custodial account are not treated as general assets of Coinbase Custody, and Coinbase Custody is a fiduciary and custodian on Bakkt Crypto's behalf. Under the Coinbase Custody Agreement, Coinbase Custody securely stores crypto asset private keys in offline storage. Under the Coinbase Custody Agreement, Coinbase Custody has implemented and agrees to maintain a reasonable information security program with policies and procedures reasonably designed to safeguard its electronic systems and Bakkt Crypto's confidential information. Coinbase Custody is required to keep timely and accurate records as to the deposit, disbursement, investment and reinvestment of crypto assets and maintain accurate books and records of the custody services in accordance with applicable law and its own internal document retention policies. Bakkt Crypto does not have inspection rights under the Coinbase Custody Agreement. The Coinbase Custody Agreement remains effective until terminated by either party by providing at least 30 days' prior written notice to the other party.

Under the Fireblocks License Agreement, Fireblocks has granted Bakkt Crypto a non-exclusive, non-sublicensable, non-transferable license to generate wallets through the Fireblocks Vault service. The service allows Bakkt Crypto to access and use crypto asset wallets that store private and public keys, interact with various blockchains and monitor its balances of crypto assets.

-14-

Our intention is to consolidate our self-custodial services while still offering diversification across custodians for clients that request it.

Bakkt Trust holds at least 90% of the crypto assets held in custody in cold storage and up to 10% of crypto assets (not to exceed \$25.0 million in notional value at any one time) in warm or hot wallets.

Bakkt Crypto holds all crypto assets, including customer crypto assets and the immaterial inventory of crypto assets that Bakkt Crypto maintains for purposes such as facilitating blockchain fee payments and accommodating the impacts of rounding, in omnibus wallets. With respect to mode of storage, a small percentage of all crypto assets (generally not more than 2%) are held in warm or hot storage in order to facilitate daily settlement and customer withdrawals, while the vast majority of crypto assets are held in cold storage and accessed, as needed, to replenish the warm or hot wallets. The amounts of crypto assets held in warm/hot storage and cold storage are monitored daily by our custody operations team and reviewed by management on a monthly basis.

Assets stored by Coinbase Custody and BitGo are held 100% in segregated cold storage. "Segregated" means that Bakkt Crypto customer assets are held in unique addresses on the respective blockchains and do not include assets of other BitGo or Coinbase clients, or of BitGo or Coinbase themselves. Both entities are SOC 1 certified. At this time, Bakkt Crypto does not utilize third parties other than Coinbase Custody and BitGo to hold customer crypto assets as custodian.

To ensure the security of crypto assets, we do not disclose the geographic location where such assets are held or the identity of the persons who have access to them or the authority to release those assets from wallets. Private keys are held in controlled locations dispersed through the United States according to SOC 1 audit procedures to ensure appropriate security. There are dedicated team members responsible for daily reconciliation of wallet holdings. New members of our custody operations team are required to complete training and test simulations and are provided with a runbook on our custody procedures. New members of the custody operations team, like all our employees, also are subject to background checks and drug testing. The daily reconciliations prepared by the custody team are reviewed and analyzed by management monthly and provided to external auditors at least annually, or as otherwise requested. Designated individuals within the custody operations team are responsible for the initiation and approval of outbound wallet transactions, as per our policies and procedures. Access rights are managed according to the principle of least privilege. These rights are maintained according to our IT security policy and subject to quarterly review by our IT security team. The existence, exclusive ownership and software functionality of private digital keys and other ownership records are subject to annual audits conducted by external auditors.

No insurance provider has inspection rights in respect of the crypto assets held in storage.

External Transfers of Crypto Assets (through Bakkt Crypto)

Other than in the State of New York, we make available to customers the ability to transfer crypto assets to external wallets. Because we have structured our platforms to be client-configurable in several aspects, each client has the discretion to enable this transfer feature for its customers. Crypto assets made available to customers residing in the State of New York will not be transferable to external wallets until that capability is approved by NYDFS, which we plan to seek in 2024.

Institutional Client Business – Crypto Custody Services

Bakkt Trust currently provides custody services to customers of Bakkt Marketplace and Bakkt Crypto and to its own institutional customers with respect to all of the crypto assets which we support for trading. For a list of these crypto assets, see the table for Bakkt Trust under "—Crypto Assets and Services Offered by Bakkt" above.

Bakkt Rewards

-15-

We are in the process of enabling clients to offer their customers the ability to convert loyalty points earned through participation in the client's loyalty program into bitcoin (and, in the future, to other crypto assets depending on demand). We initially expect to offer this service in the first half of 2024.

Customers that elect this service will opt into the program through the client's loyalty program user interface and then be referred to a Bakkt-managed front end to authorize account creation and conversion of certain client loyalty points into bitcoin. The exchange rate governing the conversion will be determined by (i) the redemption rate of client loyalty points to USD (which is set by the client), and (ii) the prevailing market price for bitcoin, which includes a markup agreed upon between the client and Bakkt. The bitcoin will then be accessible to the customer via a Bakkt-managed interface, which will allow customers to sell bitcoin for USD, link their account at the client with their bank account, deposit or withdraw fiat currency, and buy, sell and hold other approved crypto assets. The Bakkt-managed interface will not allow customers to open an account directly unless they are referred via a supported client.

Bakkt Rewards will initially be supported by the Bakkt Marketplace platform and, once it combines with Bakkt Crypto, by the platform of the combined entity.

Other Potential Services

As part of our ongoing review of potential services, we continually evaluate how we can most effectively improve our platform and service offerings in a manner that is compliant with applicable governance and regulatory considerations. In such review, we may determine to stop pursuing a potential service offering in light of, among other things, revenue expectations and compliance with applicable laws. For example, we have de-prioritized investment in Bakkt Payouts as a service offering as we work with our clients to understand the desired feature set and their timelines to implementation. As such, we have elected to suspend the development of the Bakkt Payouts product indefinitely. Furthermore, we considered developing the capability for registered customers to transfer crypto assets to and from other registered customers within our platform but have indefinitely postponed further development and rollout of such functionality. In addition, we evaluated opportunities to offer staking, as well as opportunities to offer non-fungible tokens, and have postponed further development and rollout for both such functionalities indefinitely.

Policies and Procedures

We and our subsidiaries have a comprehensive set of policies and procedures relating to crypto assets and crypto asset-related services.

General

Self-dealing and other potential conflicts of interest are addressed by our Insider Trading Policy, Code of Business Conduct and Ethics, Related Person Transactions Policy and Cryptocurrency Listing Policy. Employees are trained in these areas and attest to review these documents and policies upon hire and annually. Operationally, there are segregations of duties and information tied to trading, listing and money movements, including protections for whistleblowers, compliance reviews, and blackout periods. Orders are entered into our systems where transactions are executed at best available prices with market makers and liquidity sources, designed to further insulate customer activities and prevent front-running and other illegal activities.

Custody-Related Policies

Bakkt Trust stores client and internal assets on an omnibus basis in a combination of warm and cold wallets. Bakkt Trust uses an internal ledger to delineate client and internal assets. Bakkt Trust completes hourly automated reconciliations to confirm balances across the internal ledger, internal node, and external node match. Every deposit into Bakkt Trust is checked using industry-leading "know-your-customer" ("KYC") providers to check the provenance of the assets deposited before moving the funds out of the deposit wallet. Deposited funds may be moved into a segregated quarantine wallet if they do not pass the KYC screening and require further investigation.

-16-

Bakkt Crypto makes use of third-party providers of custodial services, including Coinbase Custody Trust Company, LLC and BitGo Trust Company, to hold customer crypto assets as custodian in cold storage as well as in hot or warm wallets as necessary. Bakkt Crypto also self-custodies customer crypto assets using the Fireblocks Vault service. All wallets hosted by Bakkt Crypto are omnibus wallets, which may contain both crypto assets held for the benefit of customers and the limited quantity of crypto assets held by Bakkt Crypto in its own account as inventory. Bakkt Crypto does not, and historically did not, operate a proprietary trading business.

Listing-Related Policies

We maintain crypto asset listing and delisting policies for each of Bakkt Marketplace (which policy also covers Bakkt Crypto, as its wholly owned subsidiary) and Bakkt Trust (the "Listing Policies"), the purpose of which is to provide a framework for the review and approval of new crypto assets, and continued offering of crypto assets, for customer transactions and custody services, respectively. The Listing Policies were revised to accommodate new guidance issued by the NYDFS in November 2023, and were subsequently approved by the NYDFS. Material revisions to the Listing Policies require prior written approval from the NYDFS.

The Listing Policies require the covered entity to undertake and document a risk assessment for each new crypto asset, which considers a number of risks, including legal and regulatory risk, and entails a review of the regulatory status of the crypto asset. Other risks covered by the risk assessment include integrity and legitimacy risk (i.e., risks associated with the creation, governance, issuance, and design of the crypto asset); reputational risk; liquidity, pricing, and manipulation risk; operational risk; cyber security risk; and illicit finance risk. The Listing Policies also provide for an evaluation of actual or potential conflicts of interest with respect to the potential listing of a crypto asset, and updates to policies and procedures to ensure that monitoring and control measures are in place to manage money laundering and financial crime risk associated with the crypto asset.

Under the Listing Policies, we utilize the risk assessment to consider various factors when making a decision to approve a new crypto asset for listing, including, among others, the appropriateness of the crypto asset to our business model and client base and whether the crypto asset is supported by other reputable markets or trading venues. In

order to assess the regulatory status of a crypto asset, we consider the applicable laws, rules and case law, and other factors relevant to the determination of the security status of a crypto asset, and the positions of the SEC as expressed in various crypto-related enforcement actions and lawsuits. We may also solicit the opinion of outside counsel.

We are required to monitor each of the crypto assets for material changes and for changes in the risk assessment conducted during the listing evaluation, and to ensure their offering remains consistent with our mission and values, general safety and soundness, and protection of customers. Should we determine that removal of a crypto asset is consistent with NYDFS guidance and regulations, and with safety and soundness, we will delist the crypto asset in accordance with the Listing Policies.

The Listing Policies do not ascribe specific weighting to particular factors or inputs to be considered in connection with the potential listing or delisting of crypto assets.

Sales and Marketing

We market our platform to our clients. We do not engage in any direct-to-consumer marketing for the acquisition or engagement of customers. As part of client engagement, we may assist them in developing their crypto assets marketing strategy but any such strategy is ultimately executed by clients at their discretion. We also have a sponsorship agreement with Caesars Entertainment pursuant to which the theater at Planet Hollywood Resort & Casino in Las Vegas is branded as the "Bakkt Theater." However, potential customers are not able to sign up directly with us and need to access our platform through a client environment.

-17-

Clients may choose to market our crypto asset services to customers. In order to ensure we comply with applicable laws and regulations, we retain the right to review customer-facing marketing materials proposed to be used by clients. In specific instances, we require clients to disclose the services we provide and the related risks in such materials.

We market our products and services to potential clients using multiple business-to-business channels, such as (i) Company-owned domains (e.g., our website and blog and its social media platforms), (ii) direct marketing, including email marketing and targeted digital advertisements to potential clients, and (iii) indirect marketing to potential clients via partnerships with existing clients and other third parties to promote branding and product access for potential clients through existing client channels.

Since customers must agree to our terms of use in order to utilize the services offered by our platforms, as part of customer onboarding, we collect data about customers from the applicable client and/or customer in accordance with our privacy policy. This data is used to complete required processes (e.g., Customer Identification Program and KYC verification) and to service customers.

We have built an extensive vendor network across various industries including financial services, travel and entertainment, retail and platform companies. While we have made significant headway building partnerships in these industries, there remain significant untapped growth opportunities in each area. For example, traditional financial institutions are facing increased competition from a broader group of fintech entrants. We expect that the pressure on them to provide innovative products and increased competition will continue to grow. Our ability to stand up capabilities within client ecosystems makes our platform an attractive solution for such financial institutions seeking an intuitive, tightly integrated, low risk solution to offer crypto and loyalty services.

We believe our growing network of clients provides potential for increased scale and substantiates the viability of our business plan. As our partnerships go live, we will offer to retail clients marketing resources to drive consumer adoption and usage of our platform. The successful activation and implementation of these partnerships are expected to be a significant driver for our transaction growth and associated revenue, including crypto trading revenue. We believe we will benefit from a positive network effect, where the value of our network will generally increase as we add new clients, vendors, customers and crypto to our platform.

Insurance Matters

We maintain types and amounts of insurance coverage that we believe are appropriate and consistent with customary industry practices. Our insurance policies cover employee-related accidents and injuries, property damage, business interruption, storm damage, facilities, cyber, crime and liability deriving from our activities. Our insurance policies also cover directors and officers', employee and fiduciary liability. The insurance policies include exclusions aimed at delineating and clarifying the scope of coverage. Examples of key customary exclusions include exclusions for losses arising from force majeure events or theft, fraud, or dishonest acts committed by any principal shareholders, partners or directors of the insured entity. Losses stemming from the network failure of a digital asset cryptographic protocol, as well as those associated with illegal activities like money laundering, are expressly excluded.

We may also be covered for certain liabilities by insurance policies issued to third parties, including, but not limited to, our dealers and vendors.

We maintain \$230 million of insurance coverage, which includes \$200 million of cold storage coverage and \$30 million of hot storage coverage. The \$30 million of hot storage coverage is in excess of a \$10 million loss retention. There is no retention applicable to the \$200 million of cold storage coverage. All supporting insurers maintain a minimum A.M. Best rating of "A". The \$30 million of hot storage coverage has a three-year term, expiring October 2024. The \$200 million of cold storage coverage has a one-year term, expiring November 2024.

The \$30 million of hot storage coverage policy is non-cancellable, other than due to non-payment of premium. The \$200 million of cold storage coverage policy may only be cancelled upon: 1) the Company's election to cancel, 2) the

-18-

insurer's election to cancel, on 90 days' notice to the Company, 3) the Company's change in ownership or control or seizure by a receiver, trustee, or government entity, 4) voluntary liquidation of the Company, 5) exhaustion of the coverage limit, or 6) non-payment of premium. The \$30 million of hot storage coverage policy has no automatic or guaranteed renewal provisions, although we expect to renew such coverage prior to its expiration. The \$200 million of cold storage policy has a one-year guaranteed renewal provision. There are no carrier inspection rights, but an affirmative proof of loss statement would need to be completed in the event of a loss.

Loyalty

We offer a full spectrum of supplier content through configurable, white-label e-commerce storefronts that clients can make available for their customers to purchase via redemption of loyalty points. Our redemption catalog spans a variety of rewards categories including travel, gift cards and merchandise, including a unique Apple product and services storefront. Our travel solution offers a retail e-commerce booking platform with direct supplier integrations, as well as a U.S.-based call center for live-agent booking and servicing. Our platform provides a unified shopping experience that is built to seamlessly extend our clients' loyalty strategies and user experience for their loyalty programs. Functionality includes a mobile-optimized user interface, numerous configurations to support diverse program needs, promotional campaign services, comprehensive fraud protection capabilities and the ability to split payments across both loyalty points and credit cards. We recognize that businesses want to offer consumers choice, innovation and a frictionless experience, and our platform and service offerings were constructed with this in mind.

We have thoughtfully built a unique and powerful platform with end-to-end services, including easily consumable technology services, customer support and compliance infrastructure, for our clients.

Our Clients

Our clients include merchants, retailers, and financial institutions, and with the anticipated acquisition of Apex Crypto, as discussed below, will include fintechs, broker-dealers, neobanks, and registered investment advisers, funds, merchants, and other businesses. Our crypto-related capabilities will facilitate new asset acquisition and reward opportunities for their customers, in addition to the secure safekeeping of acquired crypto assets and crypto assets stored on behalf of institutional clients. Our loyalty-related capabilities deepen their clients' relationships with their customers by increasing strengthening the value proposition of their loyalty programs. Our thousands of redemption opportunities as options enable our clients to meet their customers take advantage where they are, deliver the products and services they desire, and meet the expectations of these opportunities, and makes their programs more current next generation audiences by adding offering crypto capabilities.

We also enable institutional clients to trade crypto using our physically-delivered bitcoin futures contracts that are traded and cleared on ICE, and to store bitcoin and ether securely in our custody platform. Our platform uniquely leverages the technology and infrastructure products of ICE, providing regulatory clarity, better price discovery, and more effective risk management for financial institutions, redemption options.

Our dependence on a limited number of clients exposes us disproportionately to the risk of any of those clients choosing to no longer partner with us, to the economic performance of such clients or their respective industries or to any events, circumstances, or risks affecting such clients or their respective industries. For more information, please see our risk factors described in "Item 1A. Risk Factors - Related to Our Business, Finances and Operations".

Revenue Model

We primarily generate revenue when consumers clients or their customers use our services to acquire buy, sell and/or use store crypto and or transact in loyalty points across our platform in the following key areas:

- **Subscription and service revenue.** We receive a recurring subscription revenue stream from client platform fees as well as service revenue from software development fees and call center support support.
- **Transaction revenue.** We generate transaction revenue though from crypto buy/sell transactions, where we charge a markup on both legs of the transaction, and through loyalty redemption volumes, where we get earn a take rate on margin from the volume and from crypto buy/sell where we make a spread on both legs difference of the transaction, value of the points being redeemed and the cost of fulfilling the redemption request.

Our loyalty revenue has seasonality and is typically higher in the fourth quarter, driven by holiday spending and the travel bookings.

-19-

Revenue generated from our crypto service offerings has services had been immaterial prior to date. However, we expect that revenues our acquisition of Bakkt Crypto; however, revenue from crypto trades and other transactions and subscription fees will be services is now a significant drivers driver of our business, and we expect those revenues crypto services revenue to increase as we grow our client base and our users, customers. As a result over time, of our acquisition of Bakkt Crypto, we expect loyalty revenue, which has been prior to the Bakkt Crypto acquisition was the source of substantially all of our revenue, historically, to decrease as be a smaller percentage of overall revenue in the future as the revenue grows from our crypto product and service offerings grows. offerings.

Growth Strategy

We go to market using a client-led strategy, platform strategy, driven by our clients. We partner with leading brands companies and expect to grow customers on our platform through those relationships, in addition to our direct institutional clients. We have already built an extensive network of clients across numerous industries including

financial institutions, merchants and travel and entertainment. These clients include MasterCard, Visa, Global Payments, Fiserv, Webull, Public.com, Blockchain.com, Swan Bitcoin, and Caesar's. We believe that this strategy will enable us to add transacting accounts and volume more

-7-

Table of Contents

quickly and more efficiently than a direct-to-consumer model, especially as a relatively young company given our limited operating in a history and the novelty of the crypto space like crypto that may be novel to for some users, customers.

As part of this approach, we have developed our platform to be flexible and scalable to accommodate how different clients may want to implement our offerings. solutions. Depending on each client's specific needs and objectives, that client can choose to add one, some or all of our capabilities, and can also choose the manner in which those capabilities are enabled. Clients can choose to fully or partially embed our capabilities within their digital environment, or they can leverage directly through Bakkt hosted user interfaces such as our capabilities in a "ready-to-go" storefront, Custody client portal.

We believe our growth will come from adding clients and correspondingly, their users, customers, and increasing transaction activity as well as strategic acquisitions. On November 2, 2022, we entered into a definitive agreement with Apex Fintech Solutions, Inc. ("AFS") pursuant to which we agreed to acquire all of the membership interests of Apex Crypto, LLC ("Apex"), a financial technology company with an integrated crypto trading platform, for consideration consisting of an initial purchase price of \$55.0 million in cash, up to \$45 million in shares of our Class A common stock that may be earned if Apex achieves certain profitability growth targets for the fourth quarter of 2022, and up to an additional \$100.0 million in shares of our Class A common stock depending on Apex's achievement of certain financial targets through 2025. Apex's profitability in the fourth quarter of 2022 results in Class A common stock consideration of \$9.0 million based on the earn-out target mechanics. The transaction, which is subject to regulatory approvals, is expected to close in the first half of 2023. Under the terms of the transaction, Bakkt and AFS will, among other things, enter into a commercial agreement that memorializes the continued relationship and provision Our acquisition of Bakkt crypto solutions to AFS's clients. The acquisition is expected to provide immediate Crypto has provided scale and meaningful transaction volume from Apex's Bakkt Crypto's active client base. We expect base which we are working to leverage Apex's to sell additional products and services on the same platform. Leveraging Bakkt Crypto's proprietary trading platform and existing relationships with liquidity providers, we provide a wider wide range of assets and competitive pricing to our clients.

On February 8, 2023, we acquired 100% of the units of Bumped Financial, LLC ("Bumped"), a broker-dealer registered with the SEC and the Financial Industry Regulatory Authority, Inc. ("FINRA"), for cash consideration of \$575,000. This acquisition required Bumped to file a Continuing Membership Application ("CMA") with FINRA, and FINRA is currently reviewing the CMA to ensure that Bumped will continue to meet its regulatory obligations if the filing is approved. After FINRA's assessment, the CMA will be approved, denied or approved with restrictions.

Our growth strategies include the following:

- **Adding clients.** We are focused on continuing to build strong client relationships. Acquiring customers through our clients is an efficient and scalable way to grow our business. Our goal is to provide these clients opportunities to leverage our capabilities either through their existing environment or by leveraging our platform. We believe that Apex will Bakkt Crypto has significantly expanded our crypto client base into a number of new and rapidly growing client verticals, such as fintech, app fintechs, trading and brokerage platforms and neo-banks, neobanks. In addition to growing our retail trading clients, we continue to invest in the institutional side of our business, initially with our relaunched qualified custodian product and as a key agent for collaborative custody through our partnership with Unchained.
- **Adding customers.** We are focused on activating our existing clients and will launch joint supporting our clients in marketing campaigns with our clients to engage with their drive new customer acquisition and engagement of existing customers. Our existing clients provide us with an addressable market of well over 100 million potential users, who we will focus on bringing onto our platform.
- **Expanding our offering.** We aim to increase the breadth and depth of our product offering - with respect to both retail customers and institutional clients - in order to increase its appeal to clients and customers. We With respect to our retail product offerings, we made numerous enhancements to our platform over the last year including in addition to the implementation expanded capabilities from the acquisition of real-time funding, pay Bakkt Crypto, which has been enhanced with points capabilities and increased points and rewards redemption options. the addition of fiat funding. We believe that Apex will accelerate Bakkt Crypto accelerated our product road map by providing new capabilities to our platform including the addition of over 306 coins to our platform and deposit and withdrawal functionality in jurisdictions where permitted. The integration with Bakkt Marketplace enabled direct fiat funding capabilities, user management and onboarding and compliance functionality, each of which continue to be enhanced with additions such as wire

-20-

funding support and, subject to applicable regulatory approvals, support for BTC, BCH entity accounts, which materially expands the market for our trading capabilities from individual consumers to include businesses and LTC trust entities.

We have also reinvested in growing our institutional offerings, starting with the relaunch of our qualified custody platform in November 2023, and subsequently expanding custody support for 6 additional crypto assets and in the process of expanding our operational coverage to support evening and weekend withdrawal processing. Custody serves as the basis for our institutional offerings, which can then be leveraged to add additional functionality to both our institutional clients and retail clients and customers. For instance, in March 2024 we launched a partnership with Unchained Capital to support their Collaborative Custody vault offering. Bakkt leverages our secure custody infrastructure, vault and operational capabilities to secure one of three private keys and act as a key agent in a multi-signature wallet in which two of three signatures are required to transfer assets, which results in custody that does not rely on any single party.

We continue to invest in enhancing these custodial solutions with additional offerings to expand our addressable market. This includes enhancements to expand support from traditional long term buy and hold custody clients to service more active trading clients and funds, such as being a custodian for one or more of the recently launched spot Bitcoin ETFs, as well as any future spot based crypto ETFs. We are also working on leveraging our custody solution to provide adjacent solutions, such as settlement and collateral management capabilities. These enable settlement services for third party exchanges, so that funds can be tradable on exchange while being held securely in custody, or processed between counterparts to facilitate settlement, eliminating counterparty risk with the exchange.

- **Market expansion.** After the acquisition of Bakkt Crypto, we are seeing significant opportunity in expanding our retail offerings internationally beyond the U.S. We have expanded into new markets, and expect to continue to do so with our clients. We are currently live with our clients in Europe, Latin America and Asia, and are exploring additional expansion opportunities. Ultimately, the decision as to when and where to expand continues to be driven by client and customer demand and the ability to stake a limited number of coins. We believe that we will also be able to offer access to

-8-

Table of Contents

NFTs through an order management system that accepts payment regulatory environment in fiat currency, removing friction from how NFTs transact today and enabling more widespread adoption and applicability to a broader range of consumers, those markets.

Over time, we will continue to invest in our business to provide best-in-class products and services. Some of those longer-term planned enhancements include:

- **Crypto enhancements.** We expect to expand our crypto capabilities to products and services that will appeal to both retail and institutional clients. Our institutional-grade cryptocurrency crypto custody solution is our foundation. By increasing the acceptance of cryptocurrency crypto investing in the institutional space, we believe that these additional products can further increase interest in cryptocurrency crypto generally among consumers, benefiting our platform. As the narrative for crypto shifts, we will look to enhance our crypto capabilities, including layer 2 protocols like Bitcoin's bitcoin's Lightning Network and stablecoins, to drive increased utility in the crypto economy.
- **Market expansion.** We expect economy initially by providing more efficient settlement rails for fiat to expand our platform into new markets. We believe that our Apex acquisition will enable us to accelerate our entry into new markets. While the exact sequence and identity of additional markets are yet to be determined, we presently also anticipate expanding into Australia and the European Union. Ultimately, the decision as to when and where to expand will be driven by client and consumer demand and the regulatory environment in those markets, fiat remittances.
- **Evaluate additional strategic acquisitions.** We believe that the pending Apex acquisition will accelerate our crypto strategy and bolster our path to profitability. The acquisition will enable us to offer new and expanded crypto capabilities to our existing clients and provide instant access into the fintech sector and transaction volume with more than 30 Apex clients. We will continue to be opportunistic and evaluate strategic acquisitions that have compelling benefits for our business.
- **Loyalty enhancements.** As we serve existing loyalty clients with large active customer populations, we can create deeper relationships across merchants with Bakkt at the center of these loyalty networks. As loyalty programs seek new ways to leverage customer data and behaviors to deliver value, we believe our platform will enable clients to more effectively acquire, re-activate and engage customers. Additionally, we continue to evaluate additional loyalty offerings and suppliers to meet the needs of our clients.

We expect to fund continued growth in our business using a portion of the net proceeds from our business combination with VIH, which closed on October 15, 2021. For more information, please see "Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations – Liquidity and Capital Resources."

-21-

How We Are Different

The markets in which we operate are highly competitive, rapidly changing and highly innovative. We believe that we are well-positioned given our unique ability to provide all of our capabilities under one platform, combined with our institutional-grade, secure and licensed infrastructure. We believe this provides a competitive differentiation that would be difficult to replicate. Although we do not believe that we have any single direct competitor for the full range of products we provide through our platform, we compete with a wide range of parties, including crypto exchanges, peer-to-peer custodians, payment systems, and loyalty program redemption solutions, for similar services. This market is growing and changing rapidly, so we expect that we will continue to see increased competition with new entrants into the space or existing competitors expanding their product offerings.

We believe that our business model provides us with significant competitive advantages, including:

- **Multi-faceted approach to security and compliance.** We enable responsible and secure access to crypto for our clients. Our compliance measures, controls and rigorous risk management practices are at the core of how we

Table of Contents

operate. Our infrastructure provides multiple layers of protection and provides heightened security and compliance. This includes a separate and independent board for Bakkt Trust and the separation of custody and exchange functions to minimize potential conflicts of interest. Trust. As a public company, we're comprehensively regulated. We have taken the time we are subject to significant and resources to obtain a BitLicense comprehensive regulations. Across our entities, we possess two BitLicenses from the New York Department of Financial Services ("NYDFS"), NYDFS, a limited-purpose trust charter (also from NYDFS), and state money transmitter licenses, insurance policies, and to implement transmitter licenses. We have robust policies and programs that govern crypto-related activity, such as a cyber security program, information security policy, global anti-money laundering ("AML") AML policy, and Bank Secrecy Act ("BSA")/Office of Foreign Assets Control ("OFAC") of the U.S. Department of the Treasury program. These measures are all designed to protect our clients and shareholders. stockholders.

- **Client-led strategy.** We seek to leverage our existing and new client relationships with leading brands to add consumer users customers to our platform. By partnering with these brands and their existing customer bases, we believe consumers customers are more likely to embrace the new asset classes offered on our platform. We also believe that, as a relatively new brand, this approach will allow us to scale users customers and revenue more quickly.
- **Institutional-grade platform.** Our platform architecture is engineered to natively support crypto across a wide range of classes, with scalability and strong regulatory and compliance controls. Our platform includes a custody platform that we designed and built in partnership with our majority investor, ICE. Our platform was designed with these principles in mind to provide safe, reliable infrastructure for consumers in their everyday use. We believe that it also serves as a springboard for additional products and services, particularly with respect to the institutional crypto space.
- **Trusted and scalable capabilities.** Our approach, built to scale with technology, privacy, security and compliance at the core, is informed by our team's decades of collective experience. Our platform moves a significant amount of volume across asset classes every day, and we handle customer service for many of the largest financial institutions in the country. We believe these pillars, when applied to the rapidly evolving crypto space, provide confidence to consumers, customers, merchants, institutions and loyalty clients that participate in our ecosystem.

Sales and Marketing

B2B2C Model. Our go-to-market strategy is "business-to-business-to-consumer", or "B2B2C", where in which we acquire customers primarily via client relationships. We believe our focused approach on building scalable partnerships with valued brands will drive strong growth in end users. We also believe this approach is more efficient and scalable than a direct-to-consumer strategy, and we have seen early evidence that this belief is warranted. customers. Our goal is to provide our clients with opportunities to leverage Bakkt's capabilities through their existing to drive mutually beneficial customer digital experiences.

We have built an extensive vendor network across various industries including financial services, travel acquisition and entertainment, retail and platform companies. While we have made significant headway building partnerships in these industries, there remain significant untapped growth opportunities in each area. For example, traditional financial institutions are facing increased competition from a broader group engagement. Customers of financial technology entrants ("fintechs"). We expect that the pressure on them to provide innovative products and increased competition will continue to grow. Our ability to stand up capabilities within client ecosystems makes our crypto clients access our platform an attractive solution for such financial institutions seeking an intuitive, tightly-integrated, low risk solution to offer crypto and loyalty services.

Value of Partnerships. We believe our growing network of clients provides potential for increased scale and substantiates the viability through a client environment. Similarly, customers of our business plan. As loyalty clients may only access our partnerships go live, we will deploy marketing resources to drive consumer adoption and usage of our platform. The successful activation and implementation of these partnerships are expected to be a significant driver for our transaction growth and associated revenue, including crypto trading revenue. We believe we will benefit from a positive network effect, where the value of our network will generally increase as we add new clients, vendors, customers and crypto to our platform. redemption storefronts through clients' loyalty program user experiences.

-10- 22-

Table of Contents

Our marketing efforts are focused on business-to-business ("B2B") activities to acquire new clients. We utilize multiple B2B channels, such as Bakkt-owned domains (e.g., our website and blog and its social media platforms) and direct marketing to potential clients, such as email marketing and targeted digital advertisements. We also engage in indirect marketing to potential clients via partnerships with existing clients and other third parties to promote branding and product access for potential clients through existing client channels.

Customer Care

Our customer service channels are at the core of our loyalty and travel redemption offerings to clients, providing seamless and easy-to-leverage support for the wide array of cryptoasset loyalty and travel redemption transactions on our platform. We have invested heavily in customer support strive to provide our clients and their customers with the best possible a high-quality experience. Leveraging our staff of We provide customer service representatives, we provide 24x7 support for that is designed to meet the requirements of

our clients. Our customer service agents undergo a rigorous training program and are continually monitored and trained as new capabilities are added to the platform. New clients are able to leverage our deep expertise in customer support as they roll out new offerings like crypto, to their consumer customer bases.

Technology

Our core platforms were built in-house and are maintained by our skilled technical staff who have deep industry expertise across crypto and loyalty solutions. We leverage a modern software and cloud infrastructure provide loyalty integrations, travel redemption, crypto buy/sell trading, and crypto custody, stack to offer off-the-shelf or bespoke solutions for our clients, depending on their needs. Additionally, our platform supports "know your customer" ("KYC"), implements advanced strategies and controls to enable KYC, AML, and other anti-fraud measures to combat financial crime.

Our modern embedded web experiences and agile API-enabled API-driven platform allow us to partner and easily integrate with clients, including through the following:

- Our Via standard SSO and API integrations, our multi-storefront loyalty redemption service platform is provided as SaaS and powers rewards redemption for leading several of the top loyalty programs, programs in the US. The service platform is built upon highly scalable proprietary technology and supports integration is directly integrated with dozens of suppliers for real-time redemption of merchandise, gift cards and millions of items, both through a mobile-first responsive web app or integrated into clients' apps or sites, travel services. Additionally, our multi-location call center teams leverage our platform to provide agent assisted transactions and redemption servicing.
- Our crypto products solutions operate in an institutional-grade cryptocurrency crypto custody and trading platform, primarily comprised of anchored by our custody platform, Bakkt Trust, and our pricing performance hardened trade execution engine. The custody platform is purpose-built built to safeguard crypto, with multi-signature wallet policies, hardware security modules and offline storage of private key material, blockchain surveillance and AML/KYC compliance integrated into the core of the platform, platform and our operation team's procedures. Our pricing trade execution engine is an automated was built with speed and scale at its core to deliver equities-grade trading system that facilitates performance to provide liquidity for the purchase and sale of cryptocurrencies by customers and is built crypto to scale on demand leveraging the cloud, our clients.

Cybersecurity

Each of our products is architected, deployed, and managed through a common controls environment designed to protect our customers' confidential information using a combination of administrative, physical, and manage in line with industry best practices and applicable law, technical controls. We maintain a comprehensive cyber security program, managed by a dedicated team of security professionals, leveraging multiple layers of defenses to protect our loyalty and crypto clients' consumer data, and as well as crypto wallets, including cryptocurrency crypto that is kept in custody. For example, we operate a combination of Our administrative, technical, and physical controls. Some of these controls include the use of separation of duties, physical and logical access controls, biometrics, hardware security modules, advanced cryptographic algorithms, dedicated security monitoring, separation of duties and other controls to protect our environment and restrict unauthorized movement of crypto assets to and from the custody operations conducted by Bakkt Trust, access. Additionally, we regularly utilize independent and reputable external parties to assess and provide added assurance that our products are designed appropriately secured and resilient against modern cyber threats, operating effectively. We currently maintain independent SSAE-18 SOC 1 Type II and SOC 2 Type II attestation reports for our crypto platform and SOC 2 Type II attestation reports for our loyalty platform. We also maintain controls aligned to the Payment Card Industry Data Security Standard ("PCI-DSS") for in-scope systems where cardholder

-23-

data is stored or processed. We comply with NYDFS cybersecurity requirements which imposes strict rules related to establishing a detailed cybersecurity plan, enacting a comprehensive cybersecurity policy, and maintaining an ongoing reporting system for cybersecurity events. Finally, we maintain a privacy program designed to meet applicable privacy laws or regulations. This includes the capability to effectively respond to consumer data subject requests or regulatory requests.

Regulation

Federal International, federal and state laws and regulations apply to many key aspects of our business. Any actual or perceived failure to comply with these requirements may result in, among other things, revocation of required licenses or registrations, loss

-11-

Table of Contents

of approved status, regulatory or governmental investigations, administrative enforcement actions, sanctions, civil and criminal liability, private litigation, reputational harm, or constraints on our ability to continue to operate. We operate in a regulatory environment that is evolving rapidly and increasing in scope. As such, it is possible that current or future laws or regulations could be enacted, interpreted or applied in a manner that would prohibit, alter, or impair our existing or planned products and services, or that could require costly, time-consuming, or otherwise burdensome compliance measures. Further, additional laws and regulations may apply to our businesses as we expand outside of the United States in the future. For more information, please see our risk factors described in "Item 1A. Risk Factors - Risks Related to Regulation, Taxation and Laws".

Regulation of Our Payments Money Transmission Business. Bakkt Marketplace LLC ("and Bakkt Marketplace"), our subsidiary, maintains Crypto maintain a money transmitter license in each jurisdiction in which we they operate that requires such a license for our activities. In all other jurisdictions where Bakkt Marketplace operates, and Bakkt Crypto operate, we have established with the applicable licensing body that a money transmitter license is not required at this time. We will comply with new license requirements as they arise. Bakkt Marketplace is and Bakkt Crypto are also registered as a "Money Services Business" with the U.S. Department of Treasury's Financial Crimes Enforcement Network ("FinCEN"). These licenses and registrations subject us to, among other things, record-keeping requirements, reporting requirements, bonding requirements, limitations on the investment of customer funds, and examination by state and federal regulatory agencies. These licensing laws also address matters such as change in control, and regulatory approval of controlling shareholders, directors, and senior management of the licensed entity. In connection with our payments business and card product, we are subject to compliance with certain industry rules, including those promulgated by the National Automated Clearing House Association ("NACHA"), as well as card network rules and guidelines. Additional new products and services that we offer may impose additional obligations on us to comply with NACHA and card network obligations related to preventing fraud and security breaches.

Regulation of Our Virtual Currency Business. We provide cryptocurrency crypto custody services through Bakkt Trust, a limited purpose trust company that is chartered under the New York Banking Law and subject to the supervision and oversight of the NYDFS. Consequently, we must comply with laws, rules and regulations promulgated pursuant to the New York Banking Law with respect to the cryptocurrency crypto custody services we provide through Bakkt Trust, including those related to capitalization, corporate governance, anti-money laundering, disclosure, reporting and examination, as well as supervisory guidance and requirements. Bakkt Trust is also subject to FinCEN requirements as a financial institution.

We are subject in certain jurisdictions to licensing and regulatory requirements as a result of offering our clients the ability to aggregate, buy, sell, convert, spend and send virtual currency through our platform. Consequently, we must comply with laws, rules and regulations promulgated by federal or state regulators in those jurisdictions in order to provide our services, including requirements related to capitalization, consumer protection, anti-money laundering, disclosure, reporting and examination, as well as supervisory guidance and requirements. Bakkt Marketplace and Bakkt Crypto also has a have virtual currency license licenses ("BitLicense" BitLicenses) from the NYDFS, which subjects it subject them to NYDFS's oversight with respect to business activities conducted in New York State and with New York residents. In October 2023, the governor of California signed into law the Digital Financial Assets Law ("DFAL"), which establishes a required licensing framework administered by the California Department of Financial Protection and Innovation ("DFPI") for entities engaged in digital financial asset business activity in the state of California. We expect that our business will require licensure under the DFAL and will therefore take steps to obtain necessary licenses prior to the enactment's effective date of July 1, 2025. The DFAL provides that the DFPI may issue a conditional license to companies, such as our subsidiaries, that maintain licenses to conduct virtual currency business activity in New York or hold a charter as a New York limited purpose trust company with approval to conduct a virtual currency business under New York law. We will continue to monitor and review guidance from the DFPI clarifying the enactment's scope and interpretation.

-24-

The laws and regulations applicable to crypto are rapidly evolving and subject to interpretation and change. For instance, the Securities and Exchange Commission (the "SEC") has indicated in various enforcement actions and other contexts that it considers certain cryptocurrencies crypto assets to possibly constitute securities. The SEC has yet to issue any formal regulation on this point, though it has put forth some guidance on overarching frameworks and relevant factors to consider in this analysis. Therefore, our crypto services offered through our platform or our limited purpose trust company may become subject to regulation by other authorities and/or may subject us to additional requirements.

Broker-Dealer Regulation. Regulation. The Exchange Act requires that any person who is a broker or a dealer and effects or induces securities transactions must register with the SEC. A broker is defined as "any person engaged in the business of effecting transactions in securities for the account of others," while a dealer is defined as "any person engaged in the business of buying and selling securities for such person's own account," in each case, subject to exceptions. In order to be able to act as a broker and advise clients interested in transactions that involve securities, we acquired Bakkt Brokerage, a registered broker-dealer, Bumped. This acquisition is currently under review by FINRA and remains subject to receiving FINRA's approval.

-12-

Table of Contents

broker-dealer. Broker-dealers are subject to regulation, examination, investigation, and disciplinary action by the SEC, FINRA, and state securities regulators, as well as other governmental authorities and self-regulatory organizations with which they are registered or licensed or of which they are a member. Bumped Bakkt Brokerage is registered as a broker-dealer in 52 U.S. states and territories. The regulation of broker-dealers covers all aspects of the broker-dealer business and operations, including, depending on the scope of its activities, among other things, sales and trading practices and reporting requirements, client onboarding, advertising and marketing, publication or distribution of research, margin lending, uses and safekeeping of clients' funds and securities, capital adequacy, recordkeeping, reporting, fee arrangements, disclosures to clients, suitability, acting in client's best interests when making recommendations to retail customers, customer privacy, data protection, information security and cybersecurity, the safeguarding of customer information, the sharing of customer information, best execution of customer orders, public offerings, customer qualifications for margin and options transactions, registration of personnel, business continuity planning, transactions with affiliates, conflicts, and the conduct of directors, officers and employees. Broker-dealers are also subject to anti-money laundering rules and requirements issued by FinCEN under the U.S. Bank Secrecy Act.

Privacy and Information Cybersecurity Regulations. Aspects of our operations or business are subject to laws and regulation in the United States and in foreign jurisdictions relating to privacy, data protection and cybersecurity. Accordingly, we publish our privacy policies and terms of service, which describe our practices concerning the use,

protection, transmission, and disclosure of information. As our business continues to expand in the United States and potentially beyond, and as laws and regulations continue to be passed and their interpretations continue to evolve in numerous jurisdictions, additional laws and regulations may become relevant to us.

Regulatory authorities around the world are considering numerous legislative and regulatory proposals concerning privacy, data protection and cybersecurity. In addition, the interpretation and application of these laws and regulations in the United States and elsewhere are often uncertain and in a state of flux. As our business continues to develop and expand, we continue to monitor the additional rules and regulations that may become relevant. For additional information regarding these laws and regulations and related risks, please see *"Risk Factors – Risks Related to Regulation, Taxation, and Laws – Complying with evolving laws and requirements relating to privacy, and other data related laws and requirements may be expensive and force us to make changes to our business, and failure to comply with such laws and requirements could result in substantial harm to our business."*

Consumer Protection Regulation. The Consumer Financial Protection Bureau and other federal and state regulatory agencies, including the Federal Trade Commission, broadly regulate financial products, enforce consumer protection laws applicable to credit, deposit, prepaid products, and payments, and other similar products. Such agencies have broad consumer protection mandates, and they promulgate, interpret, and enforce laws, rules and regulations, including with respect to unfair, deceptive, and abusive acts and practices that may impact or apply to our business.

For example, under federal and state financial privacy laws and regulations, we must provide notice to consumers of our policies on sharing non-public information with third parties, among other requirements. In addition, under the Electronic Fund Transfer Act, we are required to disclose the terms of, and any fees applicable to, our electronic fund

-25-

transfer services to consumers prior to their use of the service, among other requirements. We are further required to extend error resolution and limited liability protections to customers who use our card product.

Anti-Money Laundering and Counter-Terrorism Regulation. We are subject to AML laws and regulations in the United States, including the BSA, as amended, and its implemented regulations enforced by FinCEN, as well as laws designed to prevent the use of the financial systems to facilitate terrorist activities. We have implemented a comprehensive AML compliance program designed to prevent our payments network and custody services from being used to facilitate money laundering, terrorist financing, and other illicit activity. Our program is also designed to prevent our network and other services from being used to facilitate business in countries, or with persons or entities, included on designated lists promulgated by OFAC and equivalent authorities in other countries. Our AML compliance program is comprised of policies, procedures, reporting protocols, including reporting requirements for suspicious transactions, and internal controls, including the designation of a compliance officer, training for employees, and a regular independent review of the

-13-

Table of Contents

program. It is designed to address applicable legal and regulatory requirements and to assist in managing risk associated with money laundering and terrorist financing.

Indirect Regulatory Requirements. We maintain relationships with certain clients, including banks and other financial institutions in the United States, that are regulated by state, local and federal agencies. Because of these relationships, we may be subject to indirect regulation or examination by these institutions' regulators. We generally seek to account for these types of indirect regulatory requirements in our commercial agreements. We also have clients that are investments advisors. The SEC has recently proposed changes to its investment adviser custody rule, which could affect the terms upon which we can offer custody services to those clients.

Escheatment and Unclaimed Property Regulations. There is regulatory uncertainty regarding how states and jurisdictions treat virtual currencies and other crypto assets under unclaimed property laws and regulations. Unclaimed property laws, as may be applicable, require us to report and to remit certain government authorities the property of others held by us that has been unclaimed for a specified period of time. We have policies and procedures designed to help us comply with these laws.

Intellectual Property

The protection of our intellectual property and all corresponding rights throughout the world, including our trademarks, service marks, trade dress, logos, trade names, domain names, goodwill, patents, copyrights, works of authorship (whether or not copyrightable), software and trade secrets, know-how, and proprietary and other confidential information, together with all applications, registrations, renewals, extensions, improvements and counterparts in connection with any of the foregoing, is important to the success of our business. We seek to protect our intellectual property rights by filing applications in various patent, trademark and other government offices, and relying on applicable laws and regulations in the U.S. and internationally, as well as a variety of administrative procedures. We have sought to register our core brands as domain names and as trademarks and service marks in the U.S. and a large number of other jurisdictions. We also have in place an active program to continue to secure, police and enforce trademarks, service marks, trade dress, logos, trade names, and domain names that correspond to our brands in markets of interest. We have filed patent applications in the U.S. and plan to extend them into international jurisdictions covering certain aspects of our proprietary technology and new innovations. We also rely on contractual restrictions to protect our proprietary rights where appropriate when offering or procuring products and services. We have routinely entered into confidentiality and invention disclosure and assignment agreements with our

employees and contractors, and non-disclosure agreements with external parties with whom we conduct business to control access to, and use and disclosure of, our proprietary information.

Human Capital

Our employees are essential in propelling our success. We hold our employees to high standards, both in work product and ethics, and aim to create a culture of accountability and results. Our performance expectations and attributes empower our company. They reflect how we expect employees to operate, collaborate and make decisions. At Bakkt, we

-26-

strive to challenge the status quo with new ideas, have open and honest communications, appreciate our diversity of thought, take ownership and accountability for delivering valuable results and act with integrity, respect and reliability.

In a complex industry, it is critical for employees to act ethically. We provide regular trainings to help our employees understand and comply with the many regulations in our industry and with our company policies. We expect managers to set the tone for their teams and to lead by example, including by embracing ethical behavior and sharing its importance with their team. Managers are expected to help their teams understand our company policies and encourage them to report any violations of policy or law. As a company, we help ensure Bakkt's non-retaliation policy is strictly followed.

At Bakkt, we understand that our success is built by operating as a unified company – one culture and team across the crypto landscape, with a focus on growth and innovation. We are committed to diversity throughout our company. It is

-14-

Table of Contents

our policy that employees are treated, and treat each other, with fairness, respect and dignity. We embrace our employees' differences, while valuing a diverse, inclusive and safe workplace. We aim to promote diversity and inclusion through a number of employee engagement events including internal and external speaker sessions to foster learning on relevant and important topics. Our employees come from a wide variety of backgrounds to work toward a common vision for the Company. Our CEO brings our teams together in bi-weekly all hands calls and sends weekly email updates for transparency regarding our company strategy and goals.

We strive to hold employees accountable for their work performance while providing incentives for excellence in their contributions to the Company. We encourage open collaboration to put out the best ideas and solutions to better adapt to changing markets and other challenges Bakkt faces. Our commitment to our employees is reflected in our ability to attract high-caliber talent, continuously innovate, and provide exceptional service and solutions to our clients.

As of December 31, 2022, we had a total of 1,037 employees, all of whom were full-time employees, and all of whom are located in the United States. We also engage temporary employees, consultants and consultants as needed to support our operations. Collectively, approximately 18% of our workforce is dedicated to engineering, design, or product roles. Our core locations are Alpharetta, GA, Scottsdale, AZ and New York City, NY and San Francisco, CA. None of our employees are represented by a labor union or covered by a collective bargaining agreement. We have not experienced any work stoppages, and we consider our relations with our employees to be good. We believe our positive culture strengthens our company and enables our business success.

COVID-19 Impacts

In March 2020, the World Health Organization declared the COVID-19 outbreak a global pandemic. The COVID-19 pandemic has adversely affected global economic activity and, in 2020, contributed to significant declines and volatility in financial markets. During the year ended December 31, 2022, our business operations continued to recover from the impacts of the pandemic, and revenue from loyalty and travel business also continued to recover.

Available Information

Our website is <http://www.bakkt.com>, and our investor relations website is located at <https://investors.bakkt.com>, where we make available, free of charge, our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q and Current Reports on Form 8-K and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Exchange Act, as well as proxy statements, as soon as reasonably practicable after we electronically file such material with, or furnish it to, the SEC.

We use our investor relations website to post important information for investors, including news releases, analyst presentations, and supplemental financial information, and as a means of disclosing material non-public information and for complying with our disclosure obligations under Regulation FD. We use these channels as well as social media to communicate with the public about our company. It is possible that the information we post on social media could be deemed to be material information. Accordingly, investors should monitor our investor relations website in addition to following press releases, SEC filings and public conference calls and webcasts, as well as the social media channels listed on our investor relations website. The information on our website or any other website is not incorporated by reference into this Annual Report on Form 10-K.

Item 1A. Risk Factors

financial statements and accompanying notes, before making a decision to invest in our securities. Our business, financial condition, results of operations or prospects could also be harmed by risks and uncertainties not currently known to us or that we currently do not believe are material. If any of the risks actually occur, our business, financial condition, results of operations or prospects could be adversely affected. In that event, the trading price of our securities could decline, and you could lose part or all of your investment.

Table of Contents

Risk Factor Summary

Our business is subject to numerous risks and uncertainties that you should consider before investing in our securities. These risks are described more fully below and include, but are not limited to, risks relating to the following:

Risks Related to Our Business, Finances and Operations

- Our business model is newly developed and may encounter additional risks and challenges as it grows.
- Our platform is still in the early stages of its release, **will be further developed**, and is largely untested.
- **Our ability to add additional functionalities and cryptoassets to our platform may adversely affect future growth.**
- We have limited operating history and a history of operating losses.
- If we are unable to attract, retain or grow our relationships with our existing clients, our business, financial condition, results of operations and future prospects would be materially and adversely affected.
- Some of our current and prospective clients require the approval of their own regulators in order to deploy our solutions, especially our crypto solutions, and if they are unable to obtain those approvals on a timely basis, or at all, our results of operations and future prospects would be materially and adversely affected.
- A large percentage of our revenue is concentrated with a small number of clients; the loss of any such client would materially and adversely affect our business, financial condition, results of operations and future prospects. Moreover, because of our B2B2C go-to-market model, the loss of any client – regardless of the reason – increases the risk that the customers that originally emanated from that client will transition to another provider or stop doing business with us, which would harm our business.
- We may not realize the anticipated benefits of past or future investments, strategic transactions, or acquisitions – **including the pending acquisition of Apex Crypto LLC** – and integration of these acquisitions may disrupt our business and management.

Risks Related to Crypto

- Disruptions in the crypto market subject us to additional risks, including the risk that banks may not provide banking services to us.
- There may be a general perception among regulators and others that crypto is used to facilitate illegal activity such as fraud, money laundering, tax evasion and ransomware scams.
- **We rely on crypto** **Crypto** custodial solutions and related technology, **which may experience** **including our systems and custodial arrangements, are subject to risks related to a loss of funds due to** **theft, employee or vendor sabotage, security and cybersecurity risks, system failures and other operational issues** **which could damage the loss, destruction or other compromise of our reputation** **private keys and brand.** **a lack of sufficient insurance.**
- Our failure to safeguard and manage our customers' crypto could adversely impact our business, operating results, and financial condition.
- Crypto does not have extensive historical precedent and distributed ledger technology continues to rapidly evolve.
- We may encounter technical issues in connection with the integration of supported **cryptoassets** **crypto assets** and changes and upgrades to their underlying networks, which could adversely affect our business.

Risks Related to Regulation, Taxation and Laws

- We are subject to extensive government regulation, oversight, licensure and appraisals and our failure to comply could materially harm our business.

- The regulatory regime governing blockchain technologies and crypto is uncertain, and new regulations or policies may alter or significantly adversely affect our business practices with respect to crypto.

-16-

[Table of Contents](#)

- A **cryptoasset's** **crypto asset's** status as a "security" in any relevant jurisdiction is subject to a high degree of uncertainty, and if **cryptoassets** **crypto assets** on our platform are later determined to be securities, we may be subject to regulatory scrutiny, investigations, fines, and other penalties, which may adversely affect our business, operating results, and financial condition.
- We are subject to significant litigation risk and risk of regulatory liability and penalties. Any current or future litigation against us could be costly and time-consuming to defend.

Risks Related to Information Technology and Data

- Actual or perceived cyberattacks, security incidents, or breaches could result in serious harm to our reputation, business and financial condition.

Risks Related to Risk Management and Financial Reporting

- If we are unable to maintain effective internal controls over financial reporting, we may be unable to produce timely and accurate financial statements, which could have a material effect on our business.

Risks Related to Our Securities

- The trading market for our securities has in the past been and could in the future be impacted by market volatility. Stock run-ups, divergences in valuation ratios relative to those seen during traditional markets, high short interest or short squeezes, and strong and atypical retail investor interest in the markets may impact the demand for our securities.

Risks Related to Our Business, Finances and Operations

Our business model is newly developed and may encounter additional risks and challenges as it grows.

Our vision is that our clients will utilize our platform as the go-to solution enabling customers to transact in crypto and loyalty points. Most of the assets that we have incorporated and intend to incorporate into our platform in the future are already being handled by incumbent providers. There can be no assurance that our platform will gain the acceptance of clients or customers or generate the anticipated synergies. Because some of the **cryptoassets** **crypto assets** that are anticipated to be available on our platform have not previously been available for the uses our platform is intended to cover, it is difficult to predict the preferences and requirements of clients or customers, and our platform, design and technology may not appeal to such clients or customers, or may be incompatible with new or emerging forms of crypto or related technologies. Failure to achieve acceptance would impede our ability to develop and sustain a commercial business.

We primarily generate revenue when customers transact in crypto and loyalty points on our platform. Our success depends on bringing on clients and on the transaction volume from these customers. If we are not able to bring new clients onto the platform, many of whom will pay us subscription fees for our platform services, our revenue and business concern could be negatively impacted. Additionally, much of our future revenue depends on transaction fees earned from customers transacting in crypto and loyalty points and the margin we charge in connection with those transactions. If we are not able to continue to grow our base of clients, we will not be able to continue to grow our customer base, our revenues or our business, which could negatively impact our business, financial condition and results of operations and may cause us to be unable to continue as a going concern.

The attractiveness of our platform depends upon, among other things:

- the number and variety of assets and other capabilities in which customers can transact through our platform;
- our reputation, as well as clients' and customers' experience and satisfaction with, and trust and perception of, our platform;

-29-

- technological innovation;
- regulatory compliance and data security; and

-17-

[Table of Contents](#)

- services and products offered by competitors.

Moreover, clients may choose to contract with other providers of services that are competitive with ours. If we fail to retain existing clients, attract new clients, or continually expand usage and transaction volume on our platform, our business, financial condition, results of operations and prospects will be materially and adversely affected.

We will have both increased financial and reputational risks if there is a failure to launch one or more features, or if the launch of a new feature is unsuccessful. Also, there can be no assurance that we will receive support from clients to launch features as planned or that we will operate as anticipated. We also require regulatory approvals, including, for example, to add new **cryptoassets**, **crypto assets**, products, and functionalities to our platform, and may require additional licenses and/or consultation with or approval of regulators to add, modify or discontinue certain aspects of our business model, which could lead to delays or other complexities in effectuating such changes and have a material adverse effect on our business and plan of operations.

Further, our business model entails numerous risks, including risks relating to our ability to:

- manage the complexity of our business model to stay current with the industry and new technologies;
- successfully enter new categories, markets and jurisdictions in which we may have limited or no prior experience;
- integrate into multiple distributed ledger technologies as they currently exist and as they evolve;
- successfully develop and integrate products, systems and personnel into our business operations;
- obtain and maintain required licenses and regulatory approvals for our business; and
- respond to, and comply with the evolving regulatory landscape for crypto and crypto platforms.

Our platform is in its early stages of release, will be further developed, and is largely untested. Any failure by us to successfully execute on the development of our platform would have an adverse effect on our business, results of operations and financial condition.

Our platform is in the early stages of release and will be further refined and developed, and certain areas of our platform are still under development and largely untested on a commercial scale. We are working to expand our service offerings, including, for example offering crypto rewards. Our platform will require additional development in order to add all of the additional functionalities and features planned by our management and activate our service offerings. There can be no assurance that the additional functionalities and features currently planned for our platform will be successfully developed in a timely fashion or at all. The addition of functionalities to our platform may require regulatory approvals, may increase our regulatory obligations and the degree of regulatory scrutiny we face, and may make regulatory compliance more complex and burdensome. We will have both increased financial and reputational risks if there is a failure to launch one or more functionalities, or if the launch of a new functionality is unsuccessful. Also, there can be no assurance that we will receive the necessary regulatory approvals or support from clients to launch features as planned or that we will operate as anticipated. Any problems that we encounter with the development or operation of our platform, including technical, legal and regulatory problems, could have a material adverse effect on our business, financial condition and results of operations.

We have a limited operating history and a history of operating losses, which make it difficult to forecast our future results of operations. Further, we expect to reduce our operating expenses in the foreseeable future, and we may not achieve or sustain profitability to absorb our targeted expense base.

We were founded in 2018 and have experienced net losses in the periods from inception through **December 31, 2022** **December 31, 2023**. For example, our revenue was **\$54.6 million**, **\$11.5 million** **\$727.0 million** and **\$28.0 million** **\$56.2 million** in the **year years** ended **December 31, 2022** **December 31, 2023** and the periods of **October 15, 2021** through **December 31, 2021** (Successor) and **January 1, 2021** through **October 14, 2021** (Predecessor) **December 31, 2022**, respectively, and we generated net losses of **\$1,989.9 million**, **\$164.8 million**, **\$225.8 million** and **\$139.2 million** **\$1,989.9 million** in the **year years** ended

-30-

December 31, 2023 and December 31, 2022 and the periods of October 15, 2021 through December 31, 2021 (Successor) and January 1, 2021 through October 14, 2021 (Predecessor), respectively. You should not rely on the revenue growth of any

-18-

Table of Contents

prior quarterly or annual period as an indication of our future performance. As a result of our limited operating history, our ability to accurately forecast our future results of operations is limited and subject to a number of uncertainties, including our ability to plan for and model future growth. Our Prior to the Bakkt Crypto acquisition, our historical revenue was achieved largely as the result of our white-labeled loyalty redemption product, which reflects little revenue from the launch of our broader crypto platform, and therefore should not be considered indicative of our future performance.

Because of our limited operating history and the fact that our current and historical revenue prior to the Bakkt Crypto Acquisition was largely not derived from our currently planned business model, our future revenue growth is difficult to predict. Even if we experience strong revenue growth, in future periods our revenue or revenue growth could decline for a number of reasons, including slowing demand for our platform, increased competition, changes to technology, a decrease in the growth of our overall market, or our failure, for any reason, to take advantage of growth opportunities. We have also encountered, and will continue to encounter, risks and uncertainties frequently experienced by growing companies in rapidly changing industries, such as the risks and uncertainties described below. If our assumptions regarding these risks and uncertainties and our future revenue growth are incorrect or change, or if we do not address these risks successfully, our operating and financial results could differ materially from our expectations, and our business could suffer.

After increasing our operating costs and expenses in 2022 to complete our product road map and build public company infrastructure, we expect to reduce our operating expenses in the foreseeable future. In particular, we intend to continue to invest significant resources to further develop our platform. We have incurred increased general and administrative expenses associated with our growth, including legal and accounting expenses and costs related to internal systems and operating as a public company. We may not be able to achieve the operating expense reductions we are targeting to align with our revenue growth assumptions. Our efforts to operate our business may be costlier than we expect, or our revenue growth rate may be slower than we expect, and we may not be able to increase our revenue enough to offset our operating expenses resulting from these investments. If we are unable to achieve the revenue growth that we expect from these investments, reduce our operating expenses, or achieve profitability, it would have an adverse effect on our business, financial condition and results of operations, and the value of our business and our securities may significantly decrease.

Substantially all of our net revenues each quarter come from transactions that occur during that quarter, which has resulted in, and may continue to result in, significant fluctuations in our operating results.

Our quarterly results, including revenue, expenses, consumer metrics and other key metrics, are derived from transactions that occur during that quarter. Accordingly, our quarterly results have fluctuated and are likely to continue to fluctuate significantly due to a variety of factors, some of which are outside of our control. It is difficult for us to forecast accurately the level or source of our revenues, earnings and expenses, and the results for any one quarter are not necessarily an indication of future performance or expenses. Moreover, because of these fluctuations, our quarterly results may not fully reflect the underlying performance of our business. If our revenue, expenses, or key metrics in future quarters fall short of the expectations of our investors and financial analysts, the price of our securities could be adversely affected.

Other factors that may cause fluctuations in our quarterly results include:

- our ability to attract and retain clients and customers;
- transaction volume and mix;
- rates of repeat transaction and fluctuations in usage of our platform, including seasonality;
- the amount and timing of our expenses related to acquiring clients and customers and the maintenance and expansion of our business, operations and infrastructure;
- changes to our relationships with our clients;
- general economic, industry and market conditions;

-31-

- competitive dynamics in the industry in which we operate;

-19-

Table of Contents

- the amount and timing of stock-based compensation expenses;
- network outages, cyberattacks, or other actual or perceived security incidents or breaches or data privacy violations;
- changes in laws and regulations that impact our business;
- the cost and outcomes of existing or potential claims or litigation; and
- the timing of expenses related to the development or acquisition of technologies or businesses and potential future charges for impairment of goodwill from acquired technologies or businesses.

If we are unable to attract, retain or grow our relationships with our existing clients, our business, financial condition, results of operations and future prospects would be materially and adversely affected. Moreover, sales efforts to large clients involve risks that may not be present or that are present to a lesser extent with respect to sales to smaller organizations.

For our platform to be successful, we must continue our existing partnerships, and successfully develop new, partnerships with clients. Our ability to retain and grow our relationships with our clients depends on the willingness of those clients to establish a commercial relationship with us. Moreover, our growth plan includes marketing expense to incentivize clients with whom we develop partnerships to market our platform to their customers, which we expect would accelerate customer adoption of our platform and lower our overall customer acquisition cost. If clients with whom we develop partnerships fail to market or do not effectively market our platform to their customers, or customers fail to adopt

our platform through these marketing efforts in such numbers as we have projected, our customer acquisition costs may increase and our business, financial condition and results of operations may be adversely affected.

Sales to large clients involve risks that may not be present or that are present to a lesser extent with sales to smaller organizations, such as longer sales cycles, more complex requirements and substantial upfront sales costs. For example, large clients may require considerable time to evaluate and test our platform prior to making a decision, or may request pricing models that may decrease our potential margins. Several factors influence the length and variability of our sales cycle, including the need to educate potential clients about the uses and benefits of our platform, the discretionary nature of purchasing and budget cycles, and the competitive nature of evaluation and purchasing approval processes. In order for our sales efforts to large organizations to be successful, we often must be able to engage with senior officers of the organization. As a result, the length of our sales cycle, from identification of the opportunity to deal closure, may vary significantly for each client, with sales to large enterprises typically taking longer to complete. If we fail to effectively manage the risks associated with sales cycles and sales to large clients, our business, financial condition and results of operations may be adversely affected.

Moreover, when we execute an agreement with a client, we are still dependent on that client to deploy our platform. Larger clients, in particular, often delay deployment for a lengthy period of time after executing an agreement. Even when clients begin their integration into our platform, they do so on a limited basis while frequently requiring that we provide implementation services, which may include customization and controls that limit the functionality of our platform, and negotiate pricing discounts, which increases our upfront investment in the sales effort with no guarantee that sales to these clients will justify our upfront investment, which can be substantial. If a client delays deployment for lengthy periods of time, our consumer and revenue growth may not achieve expectations and our business, financial condition and results of operations may be adversely affected.

Our agreements with our clients have terms that range from approximately three to five years, and in some cases, our existing clients can generally terminate these agreements without cause upon 30 to 90 days' prior written notice. In addition, many of those agreements also provide for the right of the client to terminate the agreement, or for us to pay financial penalties, in the event that we breach certain service level agreements with respect to the operation of our platform. The termination of one or more of our agreements with a client would result in a reduction in a loss of transacting accounts, transaction volume and revenue attributable to customers generated from that client relationship, and our business, financial condition, results of operations and future prospects would be materially and adversely affected.

-20- -32-

Table of Contents

Additionally, certain terms of our partnerships have not yet been memorialized in definitive written client agreements or certain terms of the written agreements relating to such partnerships remain subject to further discussion and refinement before they can be implemented, including the potential products and services to bring to market. Our ability to realize the intended benefits of these partnerships will depend on our ability to finalize such agreements, for such products and services, and to do so on terms sufficiently favorable to us. While we continue to negotiate partnership client agreement terms, we may be unable to agree to terms with such clients on commercially advantageous terms or at all, which may adversely affect our business and prospects.

Furthermore, our ability to retain existing, or obtain new, clients and customers may be impacted to the extent that clients choose not to partner with us, or customers choose not to transact or to engage in fewer transactions on our platform, in each case, because we do not currently offer or plan to cease offering certain crypto assets. For example, Bakkt has delisted a substantial majority of the crypto assets that had historically been available for trading on the Bakkt Crypto platform. The decision to delist those crypto assets has impacted, and may in the future further impact, our revenues as additional crypto assets are delisted and may impact the expected synergies and benefits from the Bakkt Crypto acquisition. If clients do not engage with us, or if customers choose not to transact or make fewer transactions on our platform, as a result of the decision to delist those crypto assets or our decision not to offer other crypto assets, our revenues will be adversely impacted.

Any of the foregoing could, among other things, adversely impact our stock price, make us less competitive compared to our peers and otherwise significantly adversely affect our business.

Some of our current and prospective clients require the approval of their own regulators in order to deploy our solutions, especially our crypto solutions, and if they are unable to obtain those approvals on a timely basis, or at all, our results of operations and future prospects would be materially and adversely affected.

Some of our current and prospective clients themselves are regulated entities that may be restricted from engaging with us. For instance, several banks to whom we seek to provide our crypto solutions are regulated by the Federal Reserve, the Office of the Comptroller of the Currency, and/or the Federal Deposit Insurance Corporation. Pursuant to statements made by these regulators in the last several months, banks they regulate are required to consult with, and potentially obtain the approval of, their relevant regulator before "engaging in crypto-related activities." If these banks, or other current or prospective clients that are regulated entities, are unable to obtain the approval of their regulators, or the timing of such approvals is delayed, that failure or delay would materially and adversely affect our results of operations and future prospects.

We face substantial and increasingly intense competition worldwide in the industries in which we operate.

The crypto and loyalty and rewards industries are highly competitive, rapidly changing, highly innovative, and increasingly subject to regulatory scrutiny and oversight. Although we do not believe that we have any single direct competitor for the full range of products we provide through our platform, we compete against a wide range of businesses in the crypto and loyalty industries generally, including those that are larger than us, have greater name recognition, larger pools of deployable capital, longer operating histories, or a dominant or more secure position, or offer other products and services to customers that we do not offer, as well as smaller or younger companies that may be more agile in responding quickly to regulatory and technological changes. Many of the areas in which we compete evolve rapidly with changing and disruptive technologies, shifting consumer needs, and frequent introductions of new products and services. Competition also may intensify as businesses enter into business combinations and partnerships, and established companies in other segments expand to become competitive with different aspects of our business.

We compete primarily on the basis of the following:

- ability to attract, retain and engage clients (and in turn, customers) on our platform;
- ability to demonstrate to clients that they may achieve incremental revenue and attract new customers by using and offering our services to their customers;

- confidence in the safety, security, privacy and control of customer information on our platform;

-33-

- ability to develop products and services across multiple commerce channels, including crypto and loyalty points; and
- system reliability, regulatory compliance and data security.

We partner with many businesses and consider the ability to continue establishing these partnerships important to our business. Competition for relationships with these clients is intense and there can be no assurance that we will be able to continue to establish, grow, or maintain these client relationships.

Some of our current and potential competitors have larger customer bases, broader geographic scope, volume, scale, resources and market share than we do, which may provide them significant competitive advantages. Some competitors may also be subject to less burdensome licensing, anti-money laundering, counter-terrorist financing and other

-21-

Table of Contents

regulatory requirements. They may devote greater resources to the development, promotion and sale of products and services, and offer lower prices or more effectively offer their own innovative programs, products and services.

We also compete against a large number of decentralized and noncustodial platforms. On these platforms, customers can interact directly with a market-making smart contract or on-chain trading mechanism to exchange one type of crypto for another without any centralized intermediary. These platforms are typically not as easy to use as our platform, and some lack the speed and liquidity of centralized platforms, but various innovative models and incentives have been designed to bridge the gap. In addition, such platforms have low startup and entry costs as market entrants often remain unregulated and have minimal operating and regulatory costs. If the demand for decentralized platforms grows and we are unable to compete with these decentralized and noncustodial platforms, our business may be adversely affected.

If we are not able to differentiate our products and services from those of our competitors, drive value for our clients and customers, or effectively and efficiently align our resources with our goals and objectives, we may not be able to compete effectively in the market.

If our platform does not meet our service level commitments, our revenue and reputation may be negatively impacted.

We typically commit, through service level agreements or otherwise, to maintaining a minimum service levels with respect to our platform's functionality, availability and response time. If we are unable to meet these commitments, we may be obligated to provide clients with remedies set forth below. A failure to meet service level commitments, even for a relatively short duration, could cause us to be contractually obligated to issue credits or refunds to a large number of affected clients and customers, or could result in the dissatisfaction or loss of clients and customers. Affected participants could also choose to pursue other legal remedies that may be available to them.

In addition, we rely on public cloud providers, such as Microsoft Azure and Google Cloud, and any availability interruption in the public cloud could result in us not meeting our service-level commitments. In some cases, we may not have a contractual right with our public cloud providers that compensates us for any losses due to availability interruptions in the public cloud.

Any of the above circumstances or events may impact our revenues, harm our reputation, impair our ability to develop our platform and grow our base of clients and customers, subject us to financial penalties and liabilities under our service level agreements and otherwise harm our business, financial condition and results of operations.

If we fail to successfully transition certain services provided to us by ICE in the past, our business could be harmed.

We have historically relied on ICE, a significant stockholder, to provide services with respect to certain aspects of our business, including the following:

- market credibility, regulatory and industry expertise and infrastructure support;
- critical infrastructure for custody of our crypto; and
- institutional-grade services to support our custody arrangements, which leverage ICE's robust platform of security protocols.

Pursuant to a transition services agreement (the "Transition Services Agreement") we signed with ICE on November 10, 2021, we have agreed to transition certain services, including technology and data center services, away from ICE that had previously been provided under an intercompany services agreement ("ISA"). There can be no assurance that we will be able to timely, efficiently or economically develop these capacities or provide these services without ICE, or that we will be able to procure alternative services from third parties. We may also be unable to provide the services at the level that they have historically been provided by ICE, or at all.

-22-

Table of Contents

In the interim, because we rely on ICE to provide support services and to facilitate certain of our business activities, we may face increased operational risk. Over time, we anticipate that ICE may sell down its ownership interest in us, thereby reducing the alignment of interests between us and ICE. With or without this sell down, ICE may be subject to financial, legal, regulatory and labor issues, cyberattacks, security incidents, privacy breaches, service terminations, disruptions or interruptions, or other problems, which may impose additional costs or requirements on us or prevent ICE from providing services to us or our customers on our behalf, which could harm our business. In addition, ICE may disagree with our interpretation of contract terms or applicable laws and regulations, fail or refuse to process transactions or provide other services adequately, take actions that degrade the functionality of our services, impose additional costs or requirements on us or our customers, or give preferential treatment to competitive services. As a result, we may be subject to business disruptions, losses related to costs to remediate any deficiencies, consumer dissatisfaction, reputational damage, legal or regulatory proceedings, or other adverse consequences, any of which could harm our business.

We face operational, legal and other risks related to our reliance on third party vendors, over which we have no control.

We face operational risk because we rely on third party vendors to provide us with financial, technology and other services and to facilitate certain of our business activities, including, for example, marketing services, fulfillment services, cloud-based computer and data storage and other IT solutions and payment processing.

-34-

These third parties may be subject to financial, legal, regulatory and labor issues, cyberattacks, security incidents, privacy breaches, service terminations, disruptions or interruptions, or other problems, which may impose additional costs or requirements on us or prevent these third parties from providing services to us or our customers on our behalf, which could harm our business. Additionally, the Consumer Financial Protection Bureau ("CFPB") and other regulators have issued guidance stating that institutions under their supervision may be held responsible for the actions of the companies with which they contract. Accordingly, we could be adversely impacted to the extent our vendors fail to comply with the legal requirements applicable to the particular products or services being offered.

In some cases, vendors are the sole source, or one of a limited number of sources, of the services they provide to us. For example, we are solely reliant on our agreement with our cloud computing web services provider for the provision of cloud infrastructure services to support our platform. Most of our vendor agreements are terminable by the vendor with little or no notice, and if our current vendors were to terminate their agreements with us or otherwise stop providing services to us on acceptable terms, we may be unable to procure alternatives from other vendors in a timely and efficient manner and on acceptable terms, or at all. If any vendor fails to provide the services we require, fails to meet contractual requirements (including compliance with applicable laws and regulations), fails to maintain adequate data privacy controls and electronic security systems, or suffers a cyberattack or other security incident or breach, we could be subject to CFPB, Federal Trade Commission, SEC, and other regulatory enforcement actions, claims from third parties, including our customers, incur significant costs to resolve any issues or suffer economic and reputational harm, any of which could have an adverse effect on our business.

If we cannot keep pace with rapid technological developments to provide new and innovative products and services, the use of our products and services may not develop, and, consequently, our business would suffer.

Rapid, significant and disruptive technological changes impact the industries in which we operate, including developments in crypto (including distributed ledger and blockchain technologies). As a result, we expect new services and technologies to continue to emerge and evolve, and we cannot predict the effects of technological changes on our business. In addition to our own initiatives and innovations, we rely in part on third parties for the development of and access to new or evolving technologies. These third parties may restrict or prevent our access to, or utilization of, those technologies, as well as their platforms or products. In addition, we may not be able to accurately predict which technological developments or innovations will become widely adopted and how those technologies may be regulated. We expect that new services and technologies applicable to the industries in which we operate will continue to emerge and may be superior to, or render obsolete, the technologies we currently use in our products and services. Developing and incorporating new technologies into our products and services may require substantial expenditures, take considerable time, and ultimately may not be

-23-

Table of Contents

successful. In addition, our ability to adopt new products and services and to develop new technologies may be inhibited by industry-wide standards, payments networks, changes to laws and regulations, resistance to change from clients or customers, third-party intellectual property rights, or other factors. Our success will depend on our ability to develop and incorporate new technologies and adapt to technological changes and evolving industry standards. If we are unable to do so in a timely or cost-effective manner, our business could be harmed.

A large percentage of our revenue is concentrated with a small number of clients; the loss of any such client would materially and adversely affect our business, financial condition, results of operations and future prospects. Moreover, because of our B2B2C go-to-market model, the loss of any client – regardless of the reason – increases the risk that the customers that originally emanated from that client will transition to another provider or stop doing business with us, which would harm our business.

The concentration of a significant portion of our business and transaction volume with a limited number of clients exposes us disproportionately to the risk of any of those clients choosing to no longer partner with us, to the economic performance of such clients or their respective industries or to any events, circumstances, or risks affecting such

clients or their respective industries. Any such loss could make our platform less appealing to existing and potential customers. Accordingly, the loss of any significant client relationship could materially and adversely affect our business, results of operations, financial condition and future prospects.

-35-

Acquisitions, strategic investments, partnerships, or alliances may be difficult to identify. We may not realize the anticipated benefits of past or future investments, strategic transactions or acquisitions including our pending acquisition of Apex Crypto LLC, and integration of these acquisitions may pose integration challenges, divert the attention of management, disrupt our business, dilute stockholder value or otherwise adversely affect our business, financial condition and results of operations.

We have in the past and may in the future seek to acquire or invest in businesses, joint ventures, partnerships, alliances and platform technologies that we believe could complement or expand our platform, enhance our technology, or otherwise offer growth opportunities. For example, on November 2, 2022, we entered into an agreement to acquire all of the membership interests of Apex Crypto LLC ("Apex").

We may not realize the anticipated benefits of past or future investments, strategic transactions, or acquisitions, including the pending acquisition of Apex, and these transactions involve numerous risks that are not within our control. These risks include the following, among others:

- obtaining the requisite regulatory approvals necessary to consummate the transaction the acquisition, or to integrate the acquired business with our own;
- difficulty in assimilating the operations, systems, and personnel of the acquired business;
- difficulty in effectively integrating the acquired technologies or products with our current products and technologies;
- difficulty in maintaining controls, procedures and policies during the transition and integration;
- disruption of our ongoing business and distraction of our management and employees from other opportunities and challenges due to integration issues;
- difficulty integrating the acquired business's accounting, management information and other administrative systems;
- inability to retain key technical and managerial personnel of the acquired business;
- inability to retain key customers, vendors and other business clients of the acquired business;
- inability to achieve the financial and strategic goals for the acquired and combined businesses;
- incurring acquisition-related costs or amortization costs for acquired intangible assets that could impact our results of operations;

-24-

Table of Contents

- regulatory changes that affect the value of the businesses we acquire or our plans for integration of those businesses, or that expose us to additional regulation or litigation in connection with the acquired businesses;
- significant post-acquisition investments which may lower the actual benefits realized through the acquisition;
- potential failure of the due diligence process to identify significant issues with product quality, legal, and financial liabilities among other things; and
- potential inability to assert that internal controls over financial reporting are effective.

In particular, the pending acquisition of Apex Bakkt Crypto presents risks to our business, including because:

- our ability to consummate the Apex acquisition is subject to regulatory approval, and there can be no assurance as to whether we will obtain that regulatory approval. Further, even if we do obtain the required approvals, the timing of those approvals may be later than we project, which would have a material adverse effect on our revenue projections;
- our ability to retain the existing legacy clients of Apex, Bakkt Crypto, and expand those relationships, is a key growth driver for us;
- we plan to replace are in the process of replacing and/or augmenting many of our existing systems and relationships (e.g., agreements with crypto liquidity providers) with those presently historically used by Apex, Bakkt Crypto;
- Apex's platform currently processes significantly more volume than our platform, and we may need to be able to accommodate this significant increase in volume; the significantly increased volume on our platform;
- Apex currently lists more cryptoassets the completion of the integration of the Bakkt Crypto business—which includes, among other things, merging legal entities, eliminating duplicative licenses, and adjusting the amount of regulatory capital associated therewith—remains subject to regulatory approval, the delay of which extends the timeline for our recognition of the full benefits of the transaction;

-36-

- we may have increased liability and/or regulatory risk from the list of additional crypto assets on its our platform than and from the pre-acquisition activities of Bakkt Crypto, even after we do elected to delist certain of the crypto assets on ours, and there can be no assurance that some or all of those additional cryptoassets will not be deemed to be "securities" or otherwise restricted from trading by regulators; the Bakkt Crypto platform; and
- The the commercial relationship with Apex Clearing Corporation that is a part of the pending acquisition of Bakkt Crypto is a key growth driver for us, but that relationship may not produce the benefits that we envision.

Our failure to address these risks, or other problems encountered in connection with our past or future investments, strategic transactions, or acquisitions, could cause us to fail to realize the anticipated benefits of these acquisitions or investments, cause us to incur unanticipated liabilities, and harm our business generally. Future acquisitions could also result in dilutive issuances of our equity securities, the incurrence of debt, contingent liabilities, amortization expenses, incremental expenses or the write-off of goodwill, any of which could harm our financial condition or results of operations, and the trading price of our common stock Class A Common Stock could decline. For example, under the purchase agreement for the acquisition of Apex, Bakkt Crypto, we agreed to issue cash consideration of \$55.0 million, up to \$45 million in shares of our Class A common stock Common Stock depending on Apex's Bakkt Crypto's achievement of certain profitability targets for the fourth quarter of 2022, (Apex's profitability in the fourth quarter of 2022 results in Class A common stock consideration of \$9.0 million based on the earn-out target mechanics), and up to an additional \$100.0 million in shares of our Class A common stock Common Stock depending on Apex's Bakkt Crypto's achievement of certain financial targets through 2025. Through March 8, 2024, we have delivered approximately \$9.1 million of shares of Class A Common Stock in respect of such obligations under such purchase agreement.

We may require additional capital to support the growth of our business, and such capital might not be available on acceptable terms, if at all.

Other than the proceeds received from the VIH Business Combination, we We have funded our operations since inception primarily through equity financings and payments received from our platform. We cannot be certain when or if our operations will generate sufficient cash to fully fund our ongoing operations or the growth of our business. We intend to continue to make investments to support our business, which may require us to engage in equity or debt financings to secure additional funds. For example, in March 2024 we consummated concurrent registered direct offerings whereby we issued and sold an aggregate of 37,679,541 shares of our Class A Common Stock, warrants to purchase an aggregate of 48,898,110 shares of Class A Common Stock at an exercise price of \$1.02 per share, and pre-funded warrants to purchase an aggregate of 11,218,570 shares of Class A Common Stock at an exercise price of \$0.0001 per share for aggregate net proceeds of \$39.7 million. We also agreed to seek stockholder approval to, among other things, issue to our majority stockholder, ICE, in a subsequent closing of the registered direct offering with ICE (the "ICE Offering") an additional 8,772,016 shares of Class A Common Stock and warrants to purchase an aggregate of 8,772,016 shares of Class A Common Stock at an exercise price of \$1.02 per share for aggregate gross proceeds of \$7.6 million.

Additional financing may not be available on terms favorable to us, if at all. If adequate funds are not available on acceptable terms, we may be unable to invest in future growth opportunities, which could harm our business, financial condition, or results of operations. If we incur debt, the debt holders would have rights senior to holders of existing securities to make claims on our assets, and the terms of any debt could restrict our operations, including our ability to pay dividends on our Class A Common Stock. Furthermore, if we issue additional equity securities, stockholders

-25-

[Table of Contents](#)

will experience dilution, and the new equity securities could have rights senior to those of our existing securities. Our decision to issue securities in the future will depend on numerous considerations, including factors beyond our control, thus we cannot predict or estimate the amount, timing, or nature of any future issuances of debt or equity securities. As a result, our stockholders bear the risk of future issuances of debt or equity securities reducing the value of our securities and diluting their interests.

We may not complete the subsequent closing of the ICE Offering within the time frame we anticipate or at all, which could have an adverse effect on our business, financial results, operations and/or the market price of our Class A Common Stock.

-37-

In connection with the ICE Offering, we agreed to seek stockholder approval to, among other things, issue an additional 8,772,016 shares of Class A Common Stock and warrants to purchase 8,772,016 shares of Class A Common Stock, which could result in aggregate gross proceeds to us of approximately \$7.6 million (the "Subsequent ICE Closing").

The consummation of the Subsequent ICE Closing is subject to certain closing conditions, a number of which are not within our control, including stockholder approval of the securities issuable under the Subsequent ICE Closing. Although we have entered into a voting support agreement with ICE, pursuant to which ICE agreed, among other things, to vote in favor of proposals seeking to obtain approval of the Subsequent ICE Closing, ICE voting in support alone does not assure the outcome and we do not control whether ICE complies with such voting support agreement. In addition, the stockholder proposals approving the transactions contemplated under the Subsequent ICE Closing will be subject to a preliminary proxy statement filing, which may be subject to review by the U.S. Securities and Exchange Commission. Such review, if it occurs, may be protracted and there are no

assurances that we will be able to close the Subsequent ICE Closing in the timing that we currently expect or at all. If the Subsequent ICE Closing is delayed or not consummated at all, our ongoing business and financial results may be adversely affected.

We might not be able to continue as a going concern.

We intend to use our unrestricted cash and proceeds from maturity of available-for-sale debt securities to (i) fund our day-to-day operations, including, but not limited to funding our regulatory capital requirements, compensating balance arrangements and other similar commitments, each of which is subject to change, (ii) activate new crypto clients, (iii) maintain our product development efforts, and (iv) optimize our technology infrastructure and operational support. Substantial doubt was initially raised about our ability to continue as a going concern in connection with the filing of our Quarterly Report on Form 10-Q for the quarterly period ending September 30, 2023. In connection with the filing of subsequent amendments thereto, we disclosed that without additional equity financing we could not conclude that we could maintain our operations for a period of at least 12 months from the dates of such amendment filings. We subsequently closed on equity offerings that, when considered with management's other plans, resulted in management concluding that, notwithstanding the initial doubt that was raised, management's plans are currently expected to alleviate substantial doubt as of the date of this filing. However, that determination may change in the future. If we cannot continue as a viable entity, our stockholders will likely lose most or all of their investment in us.

We have experienced and may continue to experience impacts to our business as a result of our partners and customers concern regarding our ability to continue as a going concern. For example, (i) one of our partners has closed out of all customer positions, (ii) we have received inquiries from partners and prospective partners about our financial position, (iii) certain of our surety bond providers have requested additional collateral, (iv) we were required to pledge as collateral the amounts that were previously required to be maintained in a concentration account for our purchasing card facility, and (v) certain of our liquidity providers have requested updated payment arrangements. There can be no assurance that we will not experience additional adverse impacts to our business, including additional or accelerated account closures, loss of future potential business, and additional demands for cash or collateral, which, individually or in the aggregate may further impair our business and exacerbate the risks related to our ability to continue as a going concern.

Notwithstanding our conclusion that our plans alleviate substantial doubt about our ability to continue as a going concern, there is significant uncertainty associated with our expansion to new markets and the growth of our revenue base given the rapidly evolving environment associated with crypto assets. Accordingly, we cannot conclude it is probable we will be able to increase revenues substantially beyond levels that we have attained in the past in order to generate sustainable operating profit and sufficient cash flows to continue doing business without raising additional capital in the near future.

If we are required to raise additional funding in the future to maintain our operations, we cannot be certain that additional capital, whether through selling additional equity or debt securities or obtaining a line of credit or other loan, will be available to us or, if available, will be on terms acceptable to us. If we issue additional securities to raise funds, these securities may have rights, preferences, or privileges senior to those of our common stock, and our current

-38-

stockholders may experience dilution. For example, in our concurrent February 2024 registered direct offerings we agreed to issue up to an aggregate of 48,898,110 shares of our Class A Common Stock (or pre-funded warrants to purchase shares of Class A Common Stock in lieu thereof) and warrants to purchase up to an aggregate of 48,898,110 shares of our Class A Common Stock. If we are unable to obtain funds when needed or on acceptable terms, we may be required to curtail our current platform expansion programs, cut operating costs, forego future development and other opportunities or even terminate our operations. In addition, even though as of the filing of this Annual Report on Form 10-K we determined that management's plans alleviated the substantial doubt about our ability to continue as a going concern, we may be unable to recover with investors, partners and customers due to the adverse reputational effects we experienced previously or may experience in the future.

We hold our cash and cash equivalents that we use to meet our working capital and operating expense needs in deposit accounts that could be adversely affected if the financial institutions holding such funds fail.

We hold our cash and cash equivalents that we use to meet our working capital and operating expense needs in deposit accounts at multiple financial institutions. The balances held in these accounts typically exceed the Federal Deposit Insurance Corporation deposit insurance limit. If a financial institution in which we hold such funds fails or is subject to significant adverse conditions in the financial or credit markets, we could be subject to a risk of loss of all or a portion of such uninsured funds or be subject to a delay in accessing all or a portion of such uninsured funds. Any such loss or lack of, or delay in, access to these funds could adversely impact our liquidity and our ability to meet our ongoing working capital and operating expense obligations.

We also maintain investment accounts with other financial institutions in which we hold our investments and, if access to these investments were to be impaired, we may not be able to open new operating accounts, sell investments or transfer funds from our investment accounts to new operating accounts on a timely basis sufficient to meet our operating expense obligations. In addition, if further liquidity and financial stability concerns arise with respect to banks and financial institutions, the ability of our clients or their customers to access existing cash, cash equivalents or investments or to access existing, or enter into new, banking arrangements or facilities, may be adversely impacted, which could in turn impact such parties' ability to pay their obligations to us or to our clients, or to enter into new commercial arrangements with us.

The loss of the services of our senior management could adversely affect our business.

The experience of our senior management is a valuable asset to us. If we are unable to retain members of our core senior management team, including our Chief Executive Officer, Gavin Michael, we could experience uncertainty and significant delays or difficulty in the achievement of our development and strategic objectives and our business, financial condition and results of operations could be materially and adversely harmed. Our management team has significant experience, is responsible for many of our core competencies, and would be difficult to replace. For example, on March 18, 2024, we announced the resignation of

our President and Chief Executive Officer, effective March 25, 2024, and appointment of a new President and Chief Executive Officer. Competition for senior executives in these businesses is intense, and we may not be able to attract and retain qualified personnel to replace or succeed members of our senior management team or other key personnel. Failure to retain talented senior leadership could have a material adverse effect on our business.

Our business will suffer if we fail to attract and retain highly skilled employees.

Our future success will depend on our ability to identify, hire, develop, motivate and retain highly qualified personnel for all areas of our organization, particularly information technology and sales. Further, hiring qualified and experienced personnel in this specialized technology space is difficult due to the high level of competition and scarcity of experience. Many of the companies with which we compete for experienced employees have greater resources than we do and may be able to offer more attractive terms of employment. In addition, we invest significant time and expense in training employees, which increases their value to competitors that may seek to recruit them. We may not be able to attract, develop and maintain the skilled workforce necessary to operate our business and labor expenses may increase as a result

-39-

of a shortage in the supply of qualified personnel, which would negatively impact our business. Further, if we suffer attrition and shortages with respect to certain of our customer service personnel, such as our call centers, our ability to maintain compliance with our service level commitments to clients may be impacted, resulting in financial penalties and, potentially, damage to or loss of those client relationships. In addition, in response to the difficult macroeconomic environment and in an effort to reduce our operating expenses, we recently implemented two separate reductions in force, or RIFs, that collectively impacted approximately 95 full-time employees. These RIFs may impact the morale of our

-26-

Table of Contents

current employees, may impact our ability to retain them and to attract new employees in the future, which would have a negative effect on the implementation of our operations.

Our revenue is impacted, to a significant extent, by the general economy.

Our business and our clients' businesses are sensitive to macroeconomic conditions. Economic factors such as interest rates, inflation, changes in monetary and related policies, market volatility (including as a result of geopolitical issues, such as the war wars in Ukraine) Ukraine and the Middle East, consumer confidence, and unemployment rates are among the most significant factors that impact consumer spending behavior. Weak economic conditions, high interest rates, inflation or a significant deterioration in economic conditions reduce the amount of disposable income consumers have, which in turn reduces consumer spending and the willingness of consumers to accumulate and spend crypto and loyalty points or otherwise transact in such assets, which would have an adverse effect on our business, results of operations, financial condition, and future prospects. In particular, the high levels of, and increases in, inflation currently experienced in the United States could negatively impact our business by increasing our costs and reducing consumer activities necessarily to our revenue generation.

Our ability to generate subscription and service revenue and transaction revenue depends, in part, on customers continuing to access and utilize our platform. Our clients' businesses may decrease or fail to increase as a result of factors outside of their control, such as the macroeconomic conditions referenced above, or business conditions affecting a particular client, industry vertical, or region. Weak economic conditions also could extend the length of our clients' sales cycle and cause consumers to delay making (or not make) purchases. Some of our clients have experienced a decrease in sales, supply chain disruptions, inventory shortages, and other adverse effects. A decline in activity by consumers of our clients' products and services for any reason may correspondingly result in lower revenue generated by our platform.

If we experience rapid growth, it may place significant demands on our operational, administrative and financial resources and it may be difficult to sustain such growth.

We have a relatively limited operating history even at our current scale and our projected growth in future periods exposes us to increased risks, uncertainties, expenses and difficulties. If we are unable to appropriately scale our operations to support such growth, our business, results of operations, financial condition and future prospects would be materially and adversely affected.

If we experience rapid growth, we could face significant challenges in:

- maintaining and developing relationships with existing and new clients
- securing funding to maintain our operations and future growth;
- maintaining adequate financial, business and risk controls;
- implementing new or updated information and financial risk controls and procedures;
- navigating complex and evolving regulatory and competitive environments;
- attracting, integrating and retaining an appropriate number of qualified, skilled employees;
- training, managing and appropriately sizing our workforce and other components of our business on a timely and cost-effective basis;

- expanding within existing markets;
- entering new markets and introducing new solutions;
- continuing to develop, maintain, protect and scale our platform;
- effectively using limited personnel and technology resources; and

-27-40-

[Table of Contents](#)

- maintaining the security of our platform and the confidentiality of the information, including personally identifiable information, provided and utilized across our platform.

We may not be able to properly manage and scale our expanding operations effectively, and any failure to do so could adversely affect our ability to generate revenue and control our expenses, which could in turn materially and adversely affect our business, financial condition, results of operations and future prospects.

Future material impairments in the value of our long-lived assets, including goodwill, have in the past negatively affected, and could in the future negatively affect, our operating results.

We regularly review our long-lived assets, including our goodwill and other intangible assets, for impairment. Goodwill and other intangible assets are subject to impairment review on an annual basis and whenever potential impairment indicators are present. Changes in market conditions or other changes in the future outlook of value may lead to impairment charges in the future. Future events or decisions may lead to asset impairments and/or related charges. Certain non-cash impairments may result from a change in our strategic goals, business direction or other factors relating to the overall business environment. Material impairment charges could negatively affect our results of operations.

For example, during the fiscal year ended December 31, 2022 December 31, 2023, we recognized \$1.8 billion \$60.5 million of goodwill and intangible assets impairments relating to the elongated timing for expected crypto product activations and the sustained decline in our market capitalization as of December 31, 2022, and failure to achieve our projected revenue growth. Further adverse changes to the timing for expected crypto product activations and declines in market capitalization could lead to additional goodwill or intangible asset impairment charges in future periods, which could be material to our results of operations. For more information on the valuation and impairment of long-lived assets, see "Critical Accounting Policies" Policies and Estimates" in Item 7 of this Annual Report Report on Form 10-K.

We may not be successful in achieving expected operating efficiencies and sustaining or improving operating expense reductions, and might experience business disruptions and adverse tax consequences associated with restructuring, realignment and cost reduction activities.

Portions of our business have been, and may in the future be, the subject of restructuring, realignment or cost reduction initiatives. For example, in the fourth quarter of 2022 and first quarter of 2023, we launched a restructuring plan in order to simplify and focus on our core capabilities. The streamlining effects of the plan could result in reduced revenue, which may adversely impact our business operations. In addition, we may not be successful in achieving the full efficiencies and cost reduction benefits we expect or such benefits might be realized later than expected, and the ongoing costs of implementing these measures might be greater than anticipated. If these measures are not successful or sustainable, we might undertake additional restructuring efforts, which could result in future charges. Moreover, our ability to achieve our other strategic goals and business plans might be adversely affected, and we could experience business disruptions, if our restructuring and realignment efforts and our cost reduction activities prove ineffective.

Stakeholders' expectations of our performance relating to environmental, social and governance factors may impose additional costs and expose us to new risks.

There is an increasing focus from stakeholders concerning corporate responsibility, specifically related to environmental, social and governance matters, or ESG. Some stakeholders may use these non-financial performance factors to guide their investment strategies and, in some cases, may choose not to invest in us if they believe our policies and actions relating to corporate responsibility are inadequate. In particular, increasing concerns over climate change have resulted and may continue to result in new regulatory requirements relating to climate change, including regulating greenhouse gas emissions (and the establishment of enhanced internal processes or systems to track them) and sustainability initiatives, which may impose more stringent restrictions and requirements than our current legal or regulatory obligations and could increase our compliance costs. We may also face reputational damage in the event that we do not meet the ESG standards set by various constituencies.

-28-41-

[Table of Contents](#)

Furthermore, if our competitors' corporate social responsibility performance is perceived to be better than ours, potential or current investors may elect to invest with our competitors instead. In addition, in the event that we communicate certain initiatives and goals regarding ESG matters, we could fail, or be perceived to fail, in our achievement of such initiatives or goals, or we could be criticized for the scope of such initiatives or goals. If we fail to satisfy the expectations of stakeholders or our initiatives are not executed as planned, our reputation and business, operating results and financial condition could be adversely impacted.

Pandemics and other public health emergencies, including the COVID-19 pandemic, or fear thereof, could adversely impact our business, operations and financial condition.

Occurrences of epidemics or pandemics, depending on their scale, may cause different degrees of damage to the national and local economies within our geographic focus. Global economic conditions may be disrupted by widespread outbreaks of infectious or contagious diseases, including any resurgence or new variants of COVID-19. Pandemics and other public health emergencies, or fear thereof, have in the past caused and are likely in the future to cause substantial changes in consumer behavior and restrictions on

business and individual activities, which have led, and are likely to lead to reduced economic activity. These effects could be exacerbated or prolonged by the emergence of variants. Extraordinary actions taken by international, federal, state and local public health and governmental authorities to contain and combat pandemics in regions throughout the world, including travel bans, quarantines, "stay-at-home" orders and similar mandates for many individuals and businesses to substantially restrict daily activities have had and could in the future have an adverse effect on our financial condition and results of operations. The willingness of clients to expend resources to integrate into our platform may be hampered by the uncertainty resulting from any pandemic or other public health emergency. Additionally, existing clients could seek financial relief from obligations to us, or choose to cancel contracts with us.

Risks Related to Crypto

Disruptions in the crypto market subject us to additional risks.

Recent financial distress in the crypto market, such as bankruptcies filed by certain market participants including providers of banking services to crypto companies, has increased uncertainty in the macroeconomic environment. There is no certainty that the measures we have taken will be sufficient to address the risks posed by the downstream effects of continued financial distress in the crypto market, and we may experience material and adverse impacts to our business as a result of the global economic impacts of such financial distress, including the loss of customer trust in crypto, including bitcoin, and any recession or economic downturn that has occurred or may occur in the future.

The ultimate impact of the financial distress in the crypto market will depend on future developments, including, but not limited to, the downstream effects of the bankruptcies filed by certain crypto market participants, their severity, and the actions taken by regulators to address its impact. Any further deterioration in the crypto markets may have an adverse effect on our reputation, and any negative perception by our clients of crypto may lead to a loss of client demand for our products and services, any of which could have an adverse impact on our business and financial condition. We may also suffer a decline in the market price of our Class A common stock **Common Stock** due to any negative perception by our clients, investors, or the general public, of crypto or the crypto market.

Due to unfamiliarity and some negative publicity associated with crypto platforms, existing and potential customers may lose confidence in crypto platforms, which could have an adverse impact on our business.

Numerous crypto platforms have been sued, investigated, or shut down due to fraud, manipulative practices, business failure and security breaches. In many of these instances, customers of these platforms were not compensated or made whole for their losses. For example, in May 2019, Binance, one of the world's largest platforms, was hacked, resulting in losses of approximately \$40 million, and in February 2021, Bitfinex settled a long-running legal dispute with the State of New York related to Bitfinex's alleged misuse of over \$800 million of customer assets. Further, in 2022, each

-29-

Table of Contents

of Celsius Networks, Voyager, Three Arrows Capital and FTX declared bankruptcy, resulting in a loss of confidence in participants of the crypto economy and negative publicity surrounding crypto more broadly. In August 2023, crypto asset exchange Bittrex Inc. and its co-founder and former CEO agreed to settle charges that they operated an unregistered national securities exchange, broker, and clearing agency, and agreed to make a total monetary payment of \$24 million. In November 2023, three federal U.S. agencies—the U.S. Department of the Treasury, through the FinCEN and OFAC, the U.S. Department of Justice (DOJ), and the Commodity Futures Trading Commission ("CFTC")—all announced enforcement actions against Binance. The actions announced require Binance to pay, in the aggregate, over \$4.3 billion in criminal forfeiture, penalties, and fines, and also require Changpeng Zhao, the founder of Binance, to plead guilty to criminal money laundering charges.

In response to these events, the crypto markets have experienced extreme price volatility, certain markets experienced issues with liquidity and several other entities in the crypto industry have been, and may continue to be, negatively affected, further undermining confidence in the crypto markets and in bitcoin. If the liquidity of the crypto markets continues to be negatively impacted by these events, crypto prices (including the price of bitcoin) may continue to experience significant volatility and confidence in the crypto markets may be further undermined. These events are continuing to develop and it is not possible to predict at this time all of the risks that they may pose to us, our service providers or on the crypto industry as a whole.

-42-

In addition, there have been reports that a significant amount of crypto trading volume on crypto platforms is fabricated and false in nature, with a specific focus on unregulated platforms located outside the United States. Such reports may indicate that the market for crypto platform activities is significantly smaller than otherwise understood. Negative perception, a lack of stability and standardized regulation in the crypto industry, and the closure or temporary shutdown of crypto platforms due to fraud, business failure, hackers or malware, or government mandated regulation, and associated losses suffered by customers may reduce confidence in the crypto economy and demand for crypto products and services, and result in greater volatility of the prices of crypto, including significant depreciation in value. Any of these events could reduce customer demand for our products and services and have an adverse impact on our business.

There may be a general perception among regulators and others that crypto is used to facilitate illegal activity such as fraud, money laundering, tax evasion and scams. Because we provide the ability to transact in crypto, any negative perceptions associated with crypto could harm our reputation.

Crypto is perceived by regulators and the general public as being susceptible to, and in fact has been used on numerous occasions for, illegal or improper uses, including money laundering, tax evasion, terrorist financing, illegal online gambling, fraudulent sales of goods or services, illegal sales of prescription medications or controlled substances,

piracy of software, movies, music and other copyrighted or trademarked goods (in particular, crypto goods), bank fraud, child pornography, human trafficking, prohibited sales of alcoholic beverages or tobacco products, securities fraud, pyramid or ponzi schemes, or to facilitate other illegal activity. Because our platform allows certain customers of Bakkt Trust to deposit and withdraw crypto, and our platform allows customers to transact in crypto, this perception may harm our reputation because we could be viewed as facilitating, or could otherwise become associated with, these illegal activities. Any such negative perception of our reputation could harm our business.

In addition, because we use a B2B2C go-to-market strategy, our ability to attract customers (and in turn, transaction volume that generates revenue) depends on our ability to attract and enter into relationships with clients. To the extent that these clients perceive crypto as a risky sector, or one that these clients do not wish to associate with (or allow their customers to associate with through that client's brand), that would have a material adverse effect on our business.

Further, banks may not provide banking services, or may cut off banking services, to businesses that provide crypto-related services, which could dampen liquidity in the market and damage the public perception of crypto generally or any one **cryptoasset** **crypto asset** in particular, which could decrease the trading volume of crypto.

Crypto custodial solutions and related technology, including our systems and custodial arrangements, are subject to risks related to a loss of funds due to theft of crypto, employee or vendor sabotage, security and cybersecurity risks, system failures and other operational issues, the loss, destruction or other compromise of our private keys and a lack of sufficient insurance.

Our systems and custodial solutions involve the processing, storage and transmission of crypto and data. Contractual limits on our exposure in the event that crypto is stolen or misappropriated may not be sufficient to protect us from liability or other harm. The theft or misappropriation of crypto held in custody by us would likely result in financial loss, reputational damage, potential lack of trust from our customers, negative press coverage, and diversion of our

-30-

Table of Contents

management's time and focus. The secure storage and transmission of crypto and data over networks is a critical element of our operations. Threats to our operations come from external factors such as governments, organized crime, hackers, and other third parties such as outsourced or infrastructure-support providers and application developers, or may originate internally from an employee or service provider to whom we have granted access to our systems.

Crypto transactions are generally irrevocable, and stolen or incorrectly transferred crypto may be irretrievable. Once a transaction has been verified and recorded in a block that is added to the distributed ledger, an incorrect transfer of a crypto generally will not be reversible, and we may not be able to obtain compensation for any such transfer or theft. It is possible that, through computer or human error, or through theft or criminal action, the crypto could be transferred in incorrect amounts or to unauthorized third parties, or to uncontrolled accounts. Such events would have a material adverse effect on our ability to continue as a going concern.

-43-

Crypto is controllable only by the possessor of private keys relating to the distributed ledger through which the crypto is held. While the distributed ledgers require a public key relating to a **cryptoasset** **crypto asset** to be published when used in a transaction, private keys must be safeguarded and kept private in order to prevent a third party from accessing the **cryptoasset** **crypto asset**. To the extent our private keys are lost, destroyed, or otherwise compromised and no backups of the private keys are accessible, we will be unable to access the crypto held through the distributed ledger. Any loss of private keys relating to, or hack or other compromise of, our crypto could adversely affect our consumers' ability to access or sell their crypto and could harm consumers' trust in us and our products. Additionally, any loss of private keys relating to, or hack or other compromise of, the distributed ledger through which third parties store crypto could have negative reputational effects on us and harm consumers' trust in us and our products.

Our insurance policies may not be adequate to reimburse us for losses caused by security breaches or incidents, and we may lose crypto valued in excess of the insurance policy without any recourse. Unlike bank accounts or accounts at some other financial institutions, in the event of loss or loss of utility value, there is no public insurer to offer recourse to us or to any consumer and the misappropriated crypto may not be easily traced to the bad actor.

Further, when crypto custodial solutions or transfer venues, whether involving our systems or others, experience system failures or other operational issues, such events could result in a reduction in crypto prices or confidence and impact our success and have a material adverse effect on our ability to continue as a going concern.

Our failure to safeguard and manage our customers' crypto could adversely impact our business, operating results, and financial condition.

In our capacity as a crypto custodian, our platform holds crypto for individual and institutional customers, and buys, sells, sends and receives crypto to fulfill buy and sell orders of such customers. Specifically, Bakkt Trust Company LLC ("Bakkt Trust") provides custody services to customers of Bakkt Marketplace and to its own institutional customers with respect to all crypto assets which it then holds we support for trading. In addition, Bakkt Crypto provides custodial services that support the crypto tokens offered on the consumer platform through both third-party providers of custodial services and self-custody through the Fireblocks Vault service. Should we or one of our third-party custodians fail to implement or maintain the policies, procedures and controls necessary to secure the custody of the crypto assets entrusted to us by our customers in full compliance with applicable law and regulation, the Company could suffer reputational harm and/or significant financial losses; face litigation or regulatory enforcement action potentially leading to significant fines, penalties, and additional restrictions; and see its customers discontinue or reduce their use of our and our partners' products. Any of these occurrences could adversely impact our business, operating results, and financial condition.

We regard the crypto assets that we hold in custody for customers as the property of those customers, who benefit from the rewards and bear the risks associated with their ownership, and we believe that customer crypto assets, consistent with the nature and terms of the services we offer and applicable law, would not be made available to satisfy the claims of our general creditors in the event of our bankruptcy. In addition, since the acquisition of Bakkt Crypto, we have utilized the services of third-party custodians to hold crypto assets in custody for the benefit of Bakkt Crypto customers. These third-party custodians maintain their own bankruptcy protection procedures and contractual protections designed with the goal that the crypto assets held in custody by these third-party custodians would not be made available to satisfy the claims of such custodian's general creditors in the event of bankruptcy. However, insolvency law is not fully developed with respect to the holding of crypto assets in custodial arrangements and continues to develop. As a result, there is a risk that crypto assets held in custody could be considered to be the property of a bankruptcy estate in the event of a bankruptcy, and that the crypto assets held in custody on behalf of our customers could be subject to bankruptcy proceedings and such customers could be treated as general unsecured creditors. This prospect may result in customers finding our custodial services more risky and less attractive.

Both Bakkt Trust and Bakkt Crypto use omnibus wallets to hold crypto assets belonging to the customers through Company as well as crypto assets held for the benefit of and on behalf of customers. The balances of Bakkt Warehouse. On Crypto-owned assets in such wallets are de minimis and are maintained solely to facilitate customer transactions, such as by funding the payment of

-44-

transfer fees and addressing rounding conventions and trade errors. Although the Company maintains detailed internal ledgers recording the ownership of crypto assets held in Company-controlled omnibus wallets, the use of omnibus wallets could complicate the disposition or treatment of customer crypto assets in the event of our bankruptcy, including by increasing the risk that crypto assets held in the omnibus wallets are considered to be the property of our bankruptcy estate.

Further, on March 31, 2022, the SEC issued Staff Accounting Bulletin No. 121, which represents a significant change regarding how a company safeguarding crypto held for its platform users reports such crypto on its balance sheet. Applicable insolvency law is not fully developed with respect to the holding of crypto in custodial arrangements and, if our custodially held crypto were, in the event of our bankruptcy, considered to be the property of our bankruptcy estate, the crypto we custodially hold could be subject to bankruptcy proceedings and our customers could be treated as our general unsecured creditors. This prospect may result in customers finding our custodial services more risky and less attractive and this, and any failure to increase our customer base, discontinuation or reduction in use of our platform and products by existing customers as a result, could adversely impact our business, operating results, and financial condition. Further, any future changes in U.S. generally accepted accounting principles ("GAAP") that require us to change the manner in which we account for our crypto held for our customers could have a material adverse effect on our financial results and the market price of our securities.

See "Risks Related to Risk Management and Financial Reporting – Future changes in financial accounting standards may significantly change our reported results of operations."

-31-

Table of Contents

Crypto does not have extensive historical precedent and distributed ledger technology continues to rapidly evolve. The unique characteristics of crypto presents risks and challenges to us that could have a material adverse effect on our business.

Crypto does not have extensive historical precedent and distributed ledger technology continues to rapidly evolve. Given the infancy of the development of crypto networks, parties may be unwilling to transact in crypto, which would dampen the growth, if any, of crypto networks. In our capacity as a crypto custodian, our platform holds crypto for individual and institutional customers, and buys, sells, sends and receives crypto to fulfill buy and sell orders of such consumers, which it then holds on behalf of the customers through Bakkt Trust. The rate of change of crypto networks can present technological challenges and require us to expend significant time and expenditures to adapt to new crypto network technologies. Acceptance of software patches or upgrades by a significant, but not overwhelming, percentage of the users and miners in a crypto network, such as the Bitcoin Network, could result in a "fork" in such network's distributed ledger, resulting in the operation of multiple separate networks. This could require us to develop and incorporate new technologies to integrate with the new fork, which may require substantial expenditures and take considerable time, if it can be done at all. Until such time as we develop and incorporate such new technologies, consumers may not be able to access new forks or the assets available on new forks. Because crypto networks are dependent upon the internet, a disruption of the internet or a crypto network, such as the Bitcoin Network, would affect the ability to transfer crypto, including bitcoin. The realization of one or more of the foregoing risks may have a material adverse effect on our crypto trading and custody business. Moreover, because crypto, including bitcoin, has been in existence for a short period of time and is continuing to develop and evolve, there may be additional risks in the future that are impossible to predict and which could have a material adverse effect on our crypto and custody business.

We may encounter technical issues in connection with the integration of supported cryptoassets crypto assets and changes and upgrades to their underlying networks, which could adversely affect our business.

In order to support any particular cryptoasset, crypto asset, a variety of front and back-end technical and development work is required to integrate such supported cryptoasset crypto asset with our existing technical infrastructure. For certain cryptoassets, crypto assets, a significant amount of development work is required and there is no guarantee that we will be able to integrate successfully with any existing or future cryptoasset, crypto asset. In addition, such integration may introduce software errors or weaknesses into our platform, including our existing infrastructure. Even if such integration is initially successful, any number of technical changes, software upgrades, soft or hard forks, cybersecurity incidents, bugs, errors, defects or other changes to the underlying blockchain network may occur from time to time, causing incompatibility, technical issues, disruptions, or security weaknesses to our platform. If we are unable to identify, troubleshoot and resolve any such issues successfully, we may no longer be able to support such

cryptoassets, crypto assets, our customers' assets may be frozen or lost, the security of our hot, warm, or cold wallets may be compromised, and our platform and technical infrastructure may be affected, all of which could adversely impact our business.

-45-

The blockchains on which ownership of crypto is recorded are dependent on the efforts of third parties acting in their capacity as the blockchain transaction miners or validators, and if these third parties fail to successfully perform these functions, the operation of the blockchains that record ownership of crypto could be compromised.

Blockchain miners or validators maintain the record of ownership of crypto. If these entities suffer from cyberattacks or other security incidents (whether from hacking, which involves efforts to gain unauthorized access to information or systems, or to cause intentional malfunctions or loss or corruption of data, software, hardware or other computer equipment, the inadvertent transmission of computer viruses, ransomware or other malware, other forms of malicious attacks, malfeasance or negligent acts of its personnel, or via other means, including phishing attacks and other forms of social engineering), or for financial or other reasons cease to perform these functions, the functioning of the blockchains on which the ownership of a cryptoasset crypto asset is recorded and the valuation based may be jeopardized. Any such interruption could result in loss of crypto and/or its value.

In addition, over the past several years, crypto mining operations have evolved from individual users mining with computer processors, graphics processing units and first-generation application specific integrated circuit ("ASIC")

-32-

[Table of Contents](#)

machines to "professionalized" mining operations using proprietary hardware or sophisticated machines. If the profit margins of crypto mining operations are not sufficiently high, crypto miners are more likely to immediately sell tokens earned by mining, resulting in an increase in liquid supply of that crypto, which would generally tend to reduce that crypto's market price.

Excessive redemptions or withdrawals, or a suspension of redemptions or withdrawals, of crypto assets could adversely impact our business.

We have procedures to process redemptions and withdrawals promptly in accordance with the terms of the applicable user agreements. Although we have not experienced excessive redemptions or withdrawals, or suspensions of redemptions or withdrawals, of crypto assets to date, we could experience process-related withdrawal or redemption delays in the future if there were to be a significant and unexpected volume of withdrawal or redemption requests. To the extent we have process-related delays, even if the delays are brief or due to blockchain network congestion or heightened redemption activity, and even if the delays are within the terms of an applicable user agreement or otherwise communicated by us, we may nonetheless experience, among other things, increased customer complaints, damage to our brand and reputation and additional regulatory scrutiny, any of which could adversely affect our business.

Risks Related to Regulation, Taxation and Laws

Our business is subject to extensive government regulation, oversight, licensure and approvals. Our failure to comply with extensive, complex, uncertain, overlapping and frequently changing rules, regulations and legal interpretations could materially harm our business.

Our business is subject to laws, rules, regulations, policies and legal interpretations in the markets in which we operate, including, but not limited to, those governing money transmission, virtual currency crypto asset business activity, consumer protection, anti-money laundering, counter-terrorist financing, privacy and data protection, cybersecurity, economic and trade sanctions, commodities, derivatives, and securities.

We have been, and expect to continue to be, required to apply for and maintain various licenses, certifications and regulatory approvals in jurisdictions where we provide our services, including due to changes in applicable laws and regulations or the interpretation of such laws and regulations. There can be no assurance that we will elect to pursue, or be able to obtain, any such licenses, certifications and approvals. In addition, there are substantial costs and potential product changes involved in maintaining and renewing such licenses, certifications and approvals. For instance, in the United States, each of Bakkt Marketplace and Bakkt Crypto has obtained licenses to operate as a money transmitter (or its equivalent) in the states where it operates and where such licenses are required, as well as in the District of Columbia and Puerto Rico, and as a virtual currency business with the State of New York. In these capacities, each of Bakkt Marketplace

-46-

and Bakkt Crypto is subject to reporting requirements, restrictions with respect to the investment of consumer funds, bonding requirements and inspection by state regulatory agencies.

As we expand our business activities, both as to the products and services offered and into jurisdictions beyond the United States, including as a result of the **Apex Bakkt Crypto** acquisition, if consummated, we will have become increasingly obligated to comply with new laws and regulations, including those of any additional countries or markets in which we operate, and we may be subject to increased regulatory oversight and enforcement and more restrictive rules and regulations. Laws outside of the United States often impose different, more specific, or even conflicting obligations on companies, as well as broader liability. For example, certain transactions that may be permissible in a local jurisdiction may be prohibited by regulations of U.S. Department of the Treasury's Office of Foreign Assets Control ("OFAC") or U.S. anti-money laundering or counter-terrorist financing regulations. Our ability to manage our business and conduct our operations internationally will require considerable management attention and resources, particularly as we have no operating history outside the United States and limited experience with international regulatory environments and market practices. Our failure to successfully manage regulatory risks could harm our international operations and have an adverse effect on our business, operating results, and financial condition.

As we expand our international activities, we become increasingly obligated to comply with the laws, rules, regulations, policies and legal interpretations of both the jurisdictions in which we operate and those into which we offer services on a cross-border basis. For instance, financial regulators outside the United States have increased scrutiny of crypto asset platforms over time, such as by requiring crypto asset platforms operating in their local jurisdictions to be regulated and licensed under local laws. To the extent a customer accesses our services outside of jurisdictions where we have obtained required governmental licenses and authorization, we face a risk of becoming subject to regulations in that local jurisdiction. A regulator's conclusion that we are servicing customers in its jurisdiction without being appropriately licensed, registered or authorized could result in fines or other enforcement actions.

In general, any failure or perceived failure to comply with existing or new laws, regulations, or orders of any regulatory authority (including changes to or expansion of the interpretation of those laws, regulations, or orders) may subject us to liability, significant fines, penalties, criminal and civil lawsuits, forfeiture of significant assets and enforcement actions in one or more jurisdictions, result in additional compliance and licensure requirements, increase regulatory scrutiny of our business, restrict our operations and force us to change our business practices, make product or operational changes, including ceasing our operations in certain jurisdictions, or delaying planned product launches or improvements. Any of the foregoing could, individually or in the aggregate, harm our reputation, damage our brand and business, impose substantial costs and adversely affect our financial condition and results of operations. The complexity of U.S. federal and state regulatory and enforcement regimes, coupled with the scope of our operations and the evolving regulatory environment, could result in a single event giving rise to a large number of overlapping investigations and legal and regulatory proceedings by multiple authorities. Moreover, we cannot provide any assurance that our employees, contractors, or agents will not violate such laws and regulations.

-33-

Table of Contents

The U.S. state and federal regulatory regime Regulatory regimes governing blockchain technologies and crypto is are evolving and uncertain, and new legislation, regulations, or policies guidance and enforcement actions have in the past required, and may in the future require, us to alter our business practices.

Significant parts of our business, such as our product and service offerings involving crypto, are subject to uncertain and/or evolving regulatory regimes. As crypto has grown in both popularity and market size, governments have reacted differently, with certain governments deeming it illegal and others allowing its use and trade without restriction, while in some jurisdictions, such as in the United States, subject the ownership and exchange of crypto to extensive, and in some cases overlapping, unclear and evolving regulatory requirements.

Many U.S. regulators, including the SEC, FinCEN, the IRS and certain state regulators, have made official pronouncements or issued guidance or rules regarding the treatment of crypto. However, there remain uncertainties associated with being subject to FinCEN regulations as a money service business, as FinCEN's rules, regulations and guidance are evolving and subject to change. For instance, while FinCEN has released guidance about how it considers its regulations to interact with crypto businesses, there remain some uncertainties about the application of this guidance to certain crypto businesses. Changes to FinCEN's rules, regulations and guidance could subject us to increased scrutiny and/or require updates to our policies and procedures and compliance programs. The IRS released guidance treating crypto as property that is not currency for U.S. federal income tax purposes, although there is no indication yet whether other courts or federal or state regulators will follow this classification. In May 2022, the Chair of the U.S. Commodity Futures Trading Commission (the "CFTC"), Rostin Behnam, stated that bitcoin and ether are commodities. In April 2022, SEC Chairman Gary Gensler announced that he had asked SEC staff to work: (i) to register and regulate crypto platforms like securities exchanges; (ii) with the CFTC on how to jointly address crypto platforms that trade both securities and non-securities; (iii) on segregating out crypto platforms' custody of customer assets, if appropriate; and (iv) on segregating out the market-making functions of crypto platforms, if appropriate. On July 21, 2022, the SEC announced insider trading charges against individuals transacting in crypto and, as part of the complaint, the SEC alleged certain cryptoassets were securities. Mr. Gensler also indicated in an October 2022 speech that he believed the "vast majority" of crypto tokens are securities and thus, that many crypto intermediaries are transacting in securities and have to register with the SEC. The SEC has also indicated that governance tokens, staking services and stablecoins as securities. In January 2023, the Federal Reserve, Office of the Comptroller of the Currency, and Federal Deposit Insurance Corporation issued a joint statement, highlighting key risks of the crypto sector in light of its significant volatility in 2022 and stating that (i) issuing or holding as principal cryptoassets that are issued, stored or transferred on an open, public, and/or decentralized network or similar system is "highly likely to be inconsistent with safe and sound banking practices," and (ii) they have "significant safety and soundness concerns" associated with business models that are concentrated in crypto-asset-related activities or have concentrated exposures to the crypto-asset sector.

Various governmental and regulatory bodies, including legislative and executive bodies, in the United States and in other countries may adopt new laws and regulations, the direction and timing of which may be influenced by changes in the governing administrations and major events in the crypto industry. For example, following the failure of several prominent crypto trading venues and lending platforms, such as FTX, Celsius Networks, Voyager and Three Arrows Capital in 2022, the U.S. Congress expressed the need for both greater federal oversight of the crypto industry and comprehensive cryptocurrency legislation. In the near future, various governmental and regulatory bodies, including in the United States, may introduce new policies, laws, and regulations relating to crypto and the crypto industry generally, and crypto platforms in particular. The failures of risk management and other control functions at other companies that played a role in the 2022 and 2023 events could have accelerated, and continue to accelerate, an existing regulatory trend toward stricter oversight of crypto platforms and the crypto industry. Furthermore, new interpretations Legislation, regulations and enforcement actions applicable to crypto in the United States include, but are not limited to the following:

- In 2023, the SEC initiated lawsuits against certain crypto asset exchanges, including Bittrex, Coinbase, Binance, and Kraken alleging among other things that those entities operated as unregistered national securities exchanges.

-47-

unregistered broker-dealers and unregistered clearing agencies and alleging that certain crypto assets available on their platforms are securities.

- The Commodity Futures Trading Commission ("CFTC") staff has publicly taken the position that certain crypto assets are commodities, and as such, exchange-traded derivatives involving bitcoin are subject to the CFTC's jurisdiction and enforcement powers. This has been reflected in certain CFTC enforcement actions, including those against Coinflip, Inc. and certain informal CFTC guidance, such as the LabCFTC's Primer on Virtual Currencies.
- In June 2023, the CFTC won a default judgment against Ooki DAO, a decentralized autonomous organization that the CFTC charged with operating an illegal trading platform and unlawfully offering leveraged and margined retail commodity transactions in crypto assets outside of existing laws a registered exchange, unlawfully acting as a Futures Commission Merchant (FCM), and regulations may be unlawfully failing to comply with Bank Secrecy Act obligations applicable to FCMs.
- In July 2023, a court in the Southern District of New York held that Ripple's sales of XRP to sophisticated investors pursuant to written contracts did constitute the unregistered offer and sale of investment contracts while sales of XRP to purchasers through blind bid/ask transactions on crypto asset exchanges did not constitute the sale of unregistered securities.
- On July 31, 2023, a different court in the Southern District of New York held that the SEC had asserted a plausible claim that certain inter-related crypto assets offered by Terraform Labs qualified as investment contracts.
- In September 2023, the CFTC issued by such bodies orders and simultaneously filed and settled charges against Opyn, Inc., ZeroEx, Inc., and Deridex, Inc., alleging that each had offered users the ability to trade crypto asset derivatives without registering with the CFTC as one or more regulated entities.
- The U.S. Congress has expressed the judiciary, which may adversely impact the development need for both greater federal oversight of the crypto industry and comprehensive crypto asset legislation. In June 2023, a bill was introduced in the U.S. House of Representatives that would place certain crypto assets under SEC oversight, while placing others that qualify as commodities, under the jurisdiction of the CFTC. Under the draft bill, whether a particularly crypto asset is as a whole security or commodity would depend, among other things, on how decentralized its underlying blockchain is. The bill would also require crypto asset intermediaries, such as certain of our subsidiaries, to register with and our legal and regulatory status in particular be regulated by changing how we operate our business, how our products and services are regulated, and what products the CFTC, the SEC or services we and our competitors can offer, requiring changes to our compliance and risk mitigation measures, imposing new licensing requirements, or imposing a total ban on certain crypto transactions, as has occurred in certain jurisdictions in the past. both.

-34-

Table of Contents

Meanwhile, certain Certain state regulators, such as the NYDFS, have created or are in the process of creating new regulatory frameworks with respect to crypto. For example, in 2015, the NYDFS State of New York adopted the "BitLicense," the first U.S. regulatory framework for licensing participants in crypto business activity. The regulation, known informally as the "BitLicense," regulates the conduct Each of businesses that are involved in crypto in New York or with New York customers Bakkt Marketplace and prohibits any person or entity involved in such activity from conducting such activities without a license. Bakkt Marketplace Crypto currently operates under a BitLicense. On January 25, 2023, the NYDFS released guidance regarding crypto custody practices, providing that a "virtual currency entity custodian" must: (1) separately account for and segregate customer assets from proprietary assets, (2) take possession of customer assets only for the limited purpose of carrying out custody and safekeeping services, (3) request approval before implementing any sub-custody arrangements, and (4) provide adequate disclosure to customers.

Other states have In addition, Louisiana has adopted or are considering proposing similar statutes and regulations that will require us or our subsidiaries to obtain a license to conduct crypto activities. For example, Louisiana's virtual currency regulation, became effective on as of January 1, 2023. It, which requires operators of virtual currency businesses to obtain a virtual currency license in order to conduct business in Louisiana, and as such, we are in the process of applying for this license. Other states, such as Texas, have published guidance on how their existing regulatory regimes governing money transmitters apply to virtual currencies. Some states, such as New Hampshire, North Carolina and Washington, have amended their state's statutes to clarify the treatment of virtual currencies within existing licensing regimes, while others have interpreted their existing statutes as requiring a money transmitter license to conduct certain virtual currency business activities.

- Both FinCEN has released guidance regarding how it considers its regulations to interact with crypto businesses.
- The IRS released guidance treating crypto as property that is not currency for U.S. federal income tax purposes.

-48-

- In August 2023, the IRS published proposed regulations on tax reporting requirements for cryptocurrency brokers, which are generally expected to expand the scope of companies that are required to report basis, adjusted basis, gross proceeds and amounts realized from sales of covered crypto assets.
- In October 2023, the governor of California signed into law the Digital Financial Assets Law ("DFAL"), which establishes a required licensing framework administered by the California Department of Financial Protection and Innovation ("DFPI") for entities engaged in digital financial asset business activity in the state agencies have instituted of California. The Company expects that its business will require licensure under the DFAL and will therefore take steps to obtain necessary licenses prior to the enactment's

effective date of July 1, 2025. The Company notes that the DFAL provides that the DFPI may issue a conditional license to companies, such as our subsidiaries, that maintain licenses to conduct virtual currency business activity in New York or hold a charter as a New York limited purpose trust company with approval to conduct a virtual currency business under New York law. The Company will continue to monitor and review guidance from the DFPI clarifying the enactment's scope and interpretation.

Governmental and regulatory bodies may continue to adopt new laws and regulations, issue new guidance or bring new enforcement actions against those violating their interpretation relating to crypto and the crypto industry generally, and crypto platforms in particular, the direction and timing of existing laws. For example, which may be influenced by changes in January 2023, Coinbase settled an NYDFS compliance investigation for a monetary penalty the governing administrations and major events in the crypto industry. In addition, regulators may establish self-regulatory bodies to set guidelines regarding crypto, which could have similar effects on new policies adopted by government bodies. To the extent regulators issue guidance, uncertainties may remain regarding the application of \$50 million and a separate commitment to make \$50 million in compliance program investments by the end of 2024. Other U.S. and many state agencies have offered little official such guidance and issued no definitive rules regarding the treatment of crypto. The CFTC staff has publicly taken the position that certain cryptoassets are commodities, and as such, exchange-traded derivatives involving bitcoin are subject to the CFTC's jurisdiction and enforcement powers. This has been reflected in certain CFTC enforcement actions, including those against Coinflip, Inc. and certain informal CFTC guidance, such as the LabCFTC's Primer on Virtual Currencies. However, such any informal guidance is may not be an official policy, rule or regulation, may be subject to change and does is not necessarily bind binding on the CFTC. To the extent that bitcoin is deemed applicable regulators. Enforcement actions may also be contested in litigation, which could take years to fall within the definition of a "commodity interest" under the Commodity Exchange Act ("CEA"), we may be subject to additional regulation under the CEA and CFTC regulations. Although the CFTC has suggested it is not particularly focused on pursuing such enforcement at this time, if the CFTC pursues such enforcement and ultimately shuts down an exchange on which our bitcoin futures contract is traded, it may have a significant adverse impact on our business and plan of operations.

As blockchain technologies and crypto business activities grow in popularity and market size, and as new crypto businesses and technologies emerge and proliferate, federal, state and local regulators revisit and update their laws and policies resolve, and can be expected also lead to continue to do so in the future. Changes in this an uncertain regulatory environment, including changing interpretations and the implementation of new or varying regulatory requirements by the government, may significantly affect or change the manner in which we currently conduct some aspect of our business. environment.

The technologies underlying crypto are novel technologies and relatively untested, and the application of U.S. federal and state securities and other financial laws to aspects of these technologies and crypto is unclear in certain respects. Because of the novelty of crypto and their underlying blockchain technologies, it is possible that securities regulators may interpret laws in a manner that adversely affects the value of crypto and our business. Various legislative and executive bodies in the United States and in other countries may, in the future, adopt laws, regulations, or guidance, or take other actions that could severely or materially impact the permissibility of the operation of the blockchain networks underlying crypto. It is difficult to predict how or whether regulatory agencies may apply existing or new regulation with respect to this technology and its applications. In addition, self-regulatory bodies may be established that set guidelines regarding crypto which could have similar effects to new policies adopted by government bodies.

-35-

Table of Contents

Any future regulatory applications, and whether regulators will bring enforcement actions applicable to crypto, the blockchain networks underlying them, our business, and our related activities could severely impact us. It could also result in negative publicity. Regulatory change could even potentially result in certain of our operations being viewed as impermissible, which could negatively affect the value of crypto and our business. The interpretation and application of various federal and states laws to crypto is also uncertain and/or evolving. on specific issues. For instance, U.S. bankruptcy courts are now faced with a number of questions of first impression that may determine the status of crypto in bankruptcy, and the rights and obligations of platforms that custody crypto for their customers.

Crypto networks, blockchain technologies, New interpretations of, or changes to, existing laws, regulations and coin guidance, and token offerings also face an uncertain new enforcement actions, may adversely impact the development of the crypto industry as a whole and our legal and regulatory landscape status in many foreign particular by changing how we operate our business, how our products and services are regulated, and what products or services we and our competitors can offer, requiring changes to our compliance and risk mitigation programs, policies and procedures, imposing new licensing requirements, or imposing a total ban on certain crypto transactions, as has occurred in certain jurisdictions including (among others) the European Union, China and Russia. Various foreign jurisdictions may, in the future, adopt past. In addition, new or changing laws, regulations, guidance or directives that affect enforcement actions, could severely or materially adversely impact, among other things, the permissibility of the operation of the blockchain networks underlying crypto and our business. The effect of any future regulatory change is impossible to predict, but any change could be substantial and materially adverse to the adoption and value of crypto and our business.

New or changing laws and regulations or interpretations of existing laws and regulations, in the United States and other jurisdictions, may materially and operations; adversely impact crypto and our business, including with respect to their the value their or liquidity of crypto; limit the ability to access marketplaces or exchanges on which to trade crypto, and crypto; adversely impact the structure, rights and transferability of crypto and the treatment of crypto and holders of crypto in insolvency proceedings; and result in further negative publicity relating to particular crypto assets or platforms or the crypto industry more generally. Any of the foregoing could significantly adversely impact our business.

See also "—Risks Related to Regulation, Taxation and Law—A crypto asset's status as a "security" in any relevant jurisdiction is subject to a high degree of uncertainty, and if crypto assets on our platform are later determined to be securities, we may be subject to regulatory scrutiny, investigations, fines, and other penalties, which may adversely affect our business, operating results, and financial condition."

A crypto's status as a "security" in any relevant jurisdiction is subject to a high degree of uncertainty, and if cryptoassets crypto assets on our platform are later determined to be securities, we may be subject to regulatory scrutiny, investigations, fines, and other penalties, which may adversely affect our business, operating results, and financial condition.

-49-

The SEC and its staff have taken the position that certain **cryptoassets** **crypto assets** fall within the definition of a "security" under the U.S. federal securities laws, and it is possible the SEC may take this position with respect to other assets that may be transacted on our platform. The **Certain** legal **test****tests** for determining whether any given asset is a security **is a may require** highly complex and fact-driven analysis that evolves over time, analyses, and the outcome is difficult to predict. The SEC, generally has not provided advance guidance or confirmation on the status of any particular cryptoasset as a security. Furthermore, it is difficult to predict the direction or timing of any continuing evolution of the SEC's views with regard to crypto. It is also possible that a change in the governing administration or the appointment of new SEC commissioners could substantially impact the views of the SEC and its staff. To date, public statements by senior officials at the SEC indicate that the SEC does not intend to take the position that bitcoin or ether are securities in their current form; however, these are the only cryptoassets as to which senior officials at the SEC have publicly expressed such a view. Moreover, such statements do not represent SEC rules or official policy statements by the SEC; they reflect only the speakers' views and are not binding on the SEC or any other agency or court and cannot be generalized to any other cryptoasset. With respect to all other cryptoassets, there is currently no certainty under the existing securities laws to determine that such assets are not securities; though the SEC's Strategic Hub for Innovation and Financial Technology published a framework for analyzing whether any given cryptoasset is a security in April 2019, this framework is also not a rule, regulation or statement of the SEC and is not binding on the SEC. In July 2022, the SEC announced insider trading charges against individuals transacting in crypto and, as part of the complaint, the SEC alleged certain cryptoassets were securities, and the current SEC Chairman, Gary Gensler, has repeatedly indicated in remarks to various forums, including the U.S. Congress, that many cryptoassets and related products and services may qualify as securities and accordingly be subject to SEC oversight and regulation. The SEC, as well as other regulators, seem have been increasingly focused on the regulation of crypto, which may has impacted and will continue to impact our business. In recent months, the SEC has alleged a number of additional crypto assets to be securities in the course of enforcement actions and lawsuits brought against crypto market participants, including lawsuits brought against the crypto exchanges Bitrex, Coinbase, Binance, and Kraken. Among the crypto assets identified as securities in these actions are assets that were previously listed on Bakkt Crypto's platform, which Bakkt has since delisted. Prior SEC enforcement activity had not alleged crypto assets made available for trading on or through a Bakkt platform to be securities. It is not clear what actions the SEC will take with respect to those or other crypto assets, including in the course of the SEC inquiry regarding the Bakkt Crypto platform that began prior to Bakkt's acquisition, or what decisions the courts will reach regarding the status of specific crypto assets as securities. For example, in December 2020, the SEC initiated a lawsuit against Ripple Labs, Inc. ("Ripple") and two of its executives, alleging that they engaged in the unlawful offer and sale of unregistered securities through sales of XRP, Ripple's crypto asset, since 2012. On July 13, 2023, a court in the Southern District of New York held that Ripple's sales of XRP to sophisticated investors pursuant to written contracts did constitute the unregistered offer and sale of investment contracts while sales of XRP to purchasers through blind bid/ask transactions on crypto asset exchanges did not constitute the sale of unregistered securities. There also remains a significant lack of clarity over whether individual cryptoassets backed by local currencies, crypto assets that purport to maintain a fixed or "stable" value relative to a fiat currency or other underlying asset, known as "stablecoins," will be deemed to be "securities."

While we currently operate only in the United States, we intend to expand internationally and will be required to comply with the securities (and other) laws of those jurisdictions as we do so. Foreign jurisdictions have varying approaches to classifying crypto as "securities," and certain cryptoassets and other assets may be deemed to be a "security"

-36-

Table of Contents

under the laws of some jurisdictions, but not others. Various non-U.S. jurisdictions may, in the future, adopt additional laws, regulations, or directives that affect the characterization of crypto as "securities."

The classification of an asset as a security under applicable law has wide-ranging implications for the regulatory obligations that flow from the offer, sale, trading and clearing of such assets. For example, an asset that is a security in the United States may generally only be offered or sold in the United States pursuant to a registration statement filed with the SEC or in an offering that qualifies for an exemption from registration. Persons that effect transactions in assets that are classified as securities in the United States may be subject to registration with the SEC and states in which they offer and sell securities as a "broker" or "dealer" and subject to the corresponding rules and regulations of the SEC, relevant states and self-regulatory organizations, including the **Financial Industry Regulatory Authority, Inc.** ("FINRA"). **FINRA**. Platforms that bring together buyers and sellers of assets that are classified as securities in the United States constitute securities exchanges and will be either required to register as such with the SEC, or to operate pursuant to an exemption, as an alternative trading system ("ATS").

We could be subject to legal or regulatory action in the event the SEC, a foreign regulatory authority, or a court were to determine that a supported **cryptoasset** **crypto asset** bought, sold, converted, spent or sent through our platform is a "security" under applicable laws. Because our platform is not yet registered or licensed with the SEC or foreign authorities as a broker-dealer, national securities exchange, or ATS (or foreign equivalents), and we do not seek to register or rely on an exemption from such registration or license to facilitate the offer and sale of **cryptoassets** **crypto assets** on our platform, we currently only permit transactions in **cryptoassets** **crypto assets** that we have determined are not securities. We intend to offer other **cryptoassets** **crypto assets** on our platform in the future, although which **cryptoassets** **crypto assets** will be allowed on our platform, and the timing for such **cryptoassets** **crypto assets** to be allowed on **out our** platform, is uncertain. We will only allow those **cryptoassets** **crypto assets** for which we determine there are reasonably strong arguments to conclude that the **cryptoasset** **crypto asset** is not a security.

However, the application of securities laws to the specific facts and circumstances of crypto may be complex and subject to change, and a listing determination does not guarantee any conclusion under the United States federal securities laws. For example, While we have policies that are designed to help us analyze whether a particular crypto asset is a "security", our policies and procedures are not a legal standard, but rather a framework for analysis that permits us to make a risk-based assessment regarding the likelihood that a particular crypto asset could be deemed a "security" under applicable laws. Regardless of our conclusions, we could be subject to legal or regulatory action in December 2020, the event the SEC, filed a lawsuit against Ripple Labs, Inc. and two of its executives, alleging state or foreign regulatory authority, or a court, were to determine that they have engaged in an unregistered, ongoing securities offering through the sale of XRP, Ripple's cryptoasset, which had been in the public domain since 2012. In July 2022, the SEC filed securities fraud charges against a former employee of Coinbase related to misuse of confidential Coinbase information. These SEC charges allege that nine cryptoassets involved in this matter are securities under federal securities laws. In February 2023, the SEC entered into a settlement agreement with Kraken after alleging its staking-as-a-service

program constituted an offering and sale of securities. Pursuant to the settlement agreement, Kraken committed to cease offering crypto asset currently offered, sold or selling securities through its crypto staking services or staking programs in the United States. Additionally, in February 2023, the SEC issued a Wells notice to the Paxos Trust Company, LLC ("Paxos"), which Paxos claims pertains to a potential SEC action alleging BUSD, a stablecoin, traded on our platform is a security. As a result, it is unclear if the SEC would take a similar view or action with respect to other cryptoassets. We "security" under applicable laws. Moreover, although we expect our risk assessment policies and procedures to regularly evolve to take into account developments in case law, facts and developments in technology, regulatory clarity and changes in market acceptance and adoption of these cryptoassets. crypto assets, these developments and changes may occur more rapidly than we

-50-

are able to change our related policies and procedures. Actions may also be brought by private individuals or entities alleging illegal transactions involving cryptoassets crypto assets that they claim are securities, and seeking rescission of those transactions, and/or other legal and equitable relief under federal or state securities laws.

In addition, in connection with our acquisition of Bakkt Crypto we have needed to, and if we engage in any other acquisitions in the future, may further need to, update our policies and procedures to account for additional types of crypto assets or additional functionalities, and there may be a delay in adopting uniform policies and procedures relating to the acquired company or in applying such policies and procedures to an acquired company's crypto assets. In applying our policies and procedures to an acquired company's crypto assets, we may determine to delist some or all of such company's crypto assets. See also "—If we are unable to attract, retain or grow our relationships with our existing clients, our business, financial condition, results of operations and future prospects would be materially and adversely affected. Moreover, sales efforts to large clients involve risks that may not be present or that are present to a lesser extent with respect to sales to smaller organizations."

There can be no assurances that we will properly characterize any given cryptoasset crypto asset as a security or non-security for purposes of determining if that cryptoasset crypto asset is allowed to be offered through our platform, or that the SEC, foreign regulatory authority, or a court, if the question was presented to it, would agree with our assessment. If the SEC, foreign regulatory authority, or a court were to determine that bitcoin or any other cryptoasset crypto asset to be offered, sold, or traded on our platform in the future is a security, we would not be able to offer such cryptoasset crypto asset for trading until we are able to do so in a compliant manner, such as through an alternative trading system approved to trade cryptoassets crypto assets that constitute securities, and such determination may have adverse consequences for such supported cryptoassets. crypto assets. A determination by the SEC, a foreign regulatory authority, or a court that an asset that we support for trading on our platform constitutes a security may also result in a determination that we should remove such asset from our platform, as well as other assets that have similar

-37-

Table of Contents

characteristics to such asset deemed to be a security. In addition, we could be subject to judicial or administrative sanctions for failing to offer or sell the asset in compliance with the registration requirements, or for acting as a broker, dealer, or national securities exchange without appropriate registration. Such an Similarly, the SEC has recently alleged that certain crypto asset exchanges have acted without appropriate registration as clearing agencies. Although our platform functions differently from those alleged to have functioned as unregistered clearing agencies in actions brought by the SEC to date, we could face a similar action if the SEC and its staff take a different position with respect to our activities. An action for failure to register as a broker, dealer, national securities exchange, or clearing agency when such registration was required could result in injunctions, cease and desist orders, as well as civil monetary penalties, fines and disgorgement, criminal liability and reputational harm. Customers that traded such supported assets on our platform and suffered trading losses could also seek to rescind a transaction that we facilitated on the basis that it was conducted in violation of applicable law, which could subject us to significant liability.

Furthermore, if we remove any assets from trading on our platform, our decision may be unpopular with our customers and may reduce our ability to attract and retain customers, especially if such assets remain traded on unregulated exchanges, which includes many of our competitors.

We are subject to significant litigation risk and risk of regulatory liability and penalties. Any current or future litigation or regulatory proceedings against us could be costly and time-consuming to defend.

We are from time to time subject to legal proceedings and claims as well as regulatory proceedings that arise in the ordinary course of business, such as securities class action litigation or other shareholder litigation, claims brought by our clients or customers in connection with commercial disputes, or employment claims made by our current or former employees, and patent litigation. On For example, on April 21, 2022, a putative class action was filed against Bakkt Holdings, Inc. and certain of its directors and officers prior to the VIH Business Combination in the U.S. District Court for the Eastern District of New York on behalf of certain purchasers of securities of VIH and/or purchasers of Bakkt Class A common stock Common Stock issued in connection with the VIH Business Combination, seeking damages as well as fees and costs. On March 14, 2023, the parties reached a settlement in principle, and expect to complete principle. On

-51-

April 12, 2023, the parties completed a stipulation of settlement resolving the litigation for \$3.0 million, subject to Court approval. A motion for preliminary approval was filed with the Court on or before April 10, 2023 April 17, 2023. The motion remains pending. We expect the settlement will be covered by our insurance less our contractual retention. On June 23, 2023, an "opt-out" action related to the foregoing class action was filed against Bakkt Holdings, Inc. and the individuals named in the class action. On February 20, 2023, a derivative action related to the foregoing class action was filed against Bakkt Holdings, Inc. and all of its directors in the U.S. District Court for the Eastern District of New York. On June 13, 2023, the defendants filed with the Court a pre-motion letter setting forth the reasons for the dismissal of the action. On July 20, 2023, the parties filed with the Court a stipulation of a voluntary dismissal of the action without a settlement or compromise between them. On July 31, 2023, the Court issued an order to dismiss the action. In addition, prior to our acquisition of Bakkt Crypto, Bakkt Crypto received requests from the SEC for documents and information about certain aspects of its business, including the operation of its trading platform, processes for listing assets, the classification of certain listed assets, and relationships with customers and service providers, among other topics. We are in the process of responding to the SEC and cannot estimate the potential impact, if any, of the resolution of this matter on our business or financial statements at this time, which could be material.

Many aspects of our business also involve substantial litigation risks, including potential liability from disputes over terms of a trade, the claim that a system failure or delay caused monetary losses to a customer, that we entered into an unauthorized transaction, that we provided materially false or misleading statements in connection with a transaction or that we failed to effectively fulfill our regulatory oversight responsibilities. We may be subject to disputes regarding the quality of customer order execution, the settlement of customer orders or other matters relating to our services.

Litigation, even claims without merit, might could result in substantial costs and may divert management's attention and resources, which might seriously harm our business, financial condition and results of operations. Insurance might may not cover such claims, might may not provide sufficient payments to cover all the costs to resolve one or more such claims, and might may not continue to be available on terms acceptable to us (including premium increases or the imposition of large deductible or co-insurance requirements). A claim brought against us that is uninsured or underinsured could result in unanticipated costs, potentially harming our business, financial position and results of operations. In addition, we cannot be sure that our existing insurance coverage and coverage for errors and omissions will continue to be available on acceptable terms, or that our insurers will not deny coverage as to any future claim. Further, an adverse

In light of our business model based on crypto, we are also subject to substantial regulatory risks. For more information about the regulatory risks to which our business is subject, see "A crypto asset's status as a "security" in any relevant jurisdiction is subject to a high degree of uncertainty, and if crypto assets on our platform are later determined to be securities, we may be subject to regulatory scrutiny, investigations, fines, and other penalties, which may adversely affect our business, operating results, and financial condition," "Regulatory regimes governing blockchain technologies and crypto are evolving and uncertain, and new legislation, regulations, guidance and enforcement actions have in the past required, and may in the future require, us to alter our business practices" and "Our business is subject to extensive government regulation, oversight, licensure and approvals. Our failure to comply with extensive, complex, uncertain, overlapping and frequently changing rules, regulations and legal interpretations could materially harm our business."

Adverse resolution of any lawsuit or claim or regulatory proceeding against us, or any regulatory investigation involving us, could have a material adverse effect on our business and our reputation. To the extent we are found to have failed to fulfill our regulatory obligations, we could lose our authorizations or licenses or become subject to conditions that could make future operations more costly and impair our profitability. Such events could also result in consumer dissatisfaction and a decline in consumers' willingness to use our platform.

Bakkt Holdings, Inc. is a holding company, its only material asset is its interest in Opc, and it is accordingly dependent upon distributions made by its subsidiaries to pay taxes and expenses, make payments under the Tax Receivable Agreement and pay dividends.

Bakkt Holdings, Inc. is a holding company with no material assets other than our ownership of Opc Common Units and our managing member interest in Opc. As a result, it have has no independent means of generating revenue or cash

-52-

flow. Its ability to pay taxes and operating expenses, make payments under the Tax Receivable Agreement (the "Tax Receivable Agreement") and pay dividends (if any) will depend on the financial results and cash flows of Opc and its

-38-

Table of Contents

subsidiaries and the distributions it receives from Opc. Deterioration in the financial condition, earnings or cash flow of Opc and its subsidiaries for any reason could limit or impair Opc's ability to pay such distributions. Additionally, to the extent it needs funds and Opc and/or any of its subsidiaries are restricted from making such distributions under applicable law or regulation or under the terms of any financing arrangements, or Opc is otherwise unable to provide such funds, it could materially adversely affect Bakkt Holdings' liquidity and financial condition.

Opc will continue to be treated as a partnership for U.S. federal income tax purposes and, as such, generally will not be subject to any entity-level U.S. federal income tax. Instead, taxable income will be allocated to holders of Opc Common Units. Accordingly, we will be required to pay income taxes on our allocable share of any net taxable income of Opc. Under the terms of the Opc LLC Agreement, Opc is obligated to make certain tax distributions to holders of Opc Common Units (including us). In addition to tax expenses, we will also incur other expenses, including payment obligations under the Tax Receivable Agreement, which could be significant. We intend to cause Opc to make distributions to holders of Opc Common Units, *pro rata*, in aggregate amounts sufficient to cover all of our applicable income taxes, payments required to be made by us under the Tax Receivable

Agreement and dividends, if any, declared by us. However, Opco's ability to make such distributions may be subject to various limitations and restrictions including, but not limited to, restrictions on distributions that would either violate any contract or agreement to which Opco is then a party, including debt agreements, or any applicable law, or that would have the effect of rendering Opco insolvent. If our cash resources are insufficient to meet our obligations under the Tax Receivable Agreement and to fund our obligations, we may be required to incur additional indebtedness to provide the liquidity needed to make such payments, which could materially adversely affect our liquidity and financial condition and subject us to various restrictions imposed by any such lenders. To the extent that we are unable to make payments under the Tax Receivable Agreement for any reason, such payments will be deferred and will accrue interest until paid; provided, however, that non-payment for a specified period may constitute a material breach of a material obligation under the Tax Receivable Agreement and therefore accelerate payments due under the Tax Receivable Agreement, which could be substantial.

Additionally, although Opco generally will not be subject to any entity-level U.S. federal income tax, it may be liable under federal tax legislation for adjustments to its tax return, absent an election to the contrary. In the event that the taxing authorities determine that Opco's tax returns are incorrect, Opco and/or its members, including us, in later years may be subject to material liabilities pursuant to this federal legislation and its related guidance.

We anticipate that the distributions we will receive from Opco may, in certain periods, exceed our actual tax liabilities and obligations to make payments under the Tax Receivable Agreement. Our board of directors (the "Board"), in its sole discretion, will make determinations with respect to the use of any such excess cash, which may include, among other uses to pay dividends, which may include special dividends, on the Class A Common Stock; to fund repurchases of Class A Common Stock; or any combination of the foregoing. We will have no obligation to distribute such cash (or other available cash other than any declared dividend) to our stockholders. To the extent that we do not distribute such excess cash as dividends on Class A Common Stock or otherwise undertake ameliorative actions between Opco Common Units and shares of Class A Common Stock and instead, for example, hold such cash balances, holders of Opco Common Units that hold interests in Opco may benefit from any value attributable to such cash balances as a result of their ownership of Class A Common Stock following an exchange of their Opco Common Units, notwithstanding that such holders may previously have participated as holders of Opco Common Units in distributions by Opco that resulted in such excess cash balances for us.

Opco is generally prohibited under Delaware law from making a distribution to a member to the extent that, at the time of the distribution, after giving effect to the distribution, liabilities of Opco (with certain exceptions) exceed the fair value of its assets. Opco's subsidiaries are generally subject to similar legal limitations on their ability to make distributions to Opco.

-53-

Pursuant to the Tax Receivable Agreement, we are required to pay 85% of the net income tax savings we realize as a result of increases in the tax basis in Opco's assets as a result of exchanges of Opco Common Units for Class A Common Stock (or cash) pursuant to the Exchange Agreement, and those payments may be substantial.

-39-

Table of Contents

The Opco Equity Holders may exchange their Opco Common Units for shares of Class A Common Stock (or cash) pursuant to the Exchange Agreement, subject to certain conditions and transfer restrictions as set forth therein and in the Third Amended and Restated LLC Agreement. These exchanges are expected to result in increases in our allocable share of the tax basis of the tangible and intangible assets of Opco. These increases in tax basis may increase (for income tax purposes) depreciation and amortization deductions and therefore reduce the amount of U.S. federal and applicable state income tax that we would otherwise be required to pay in the future had such exchanges never occurred.

We are party to the Tax Receivable Agreement, which generally provides for the payment by us of 85% of certain net tax benefits, if any, that we realize (or in certain cases are deemed to realize) as a result of these increases in tax basis and certain other tax attributes of Opco and tax benefits related to entering into the Tax Receivable Agreement, including tax benefits attributable to payments under the Tax Receivable Agreement. These payments are our obligation and not an obligation of Opco. The actual increase in our allocable share of Opco's tax basis in its assets, as well as the amount and timing of any payments under the Tax Receivable Agreement, will vary depending upon a number of factors, including the timing of exchanges, the market price of the Class A Common Stock at the time of the exchange, the extent to which such exchanges are taxable and the amount and timing of the recognition of our income. While many of the factors that will determine the amount of payments that we will make under the Tax Receivable Agreement are outside of our control, we expect that the payments we will make under the Tax Receivable Agreement will could be substantial and could have a material adverse effect on our financial condition. Estimating the amount and timing of payments that may become due under the Tax Receivable Agreement is, by its nature, imprecise. The amount and timing of any payments under the Tax Receivable Agreement are dependent upon significant future events, including those noted above in respect of estimating the amount and timing of our realization of tax benefits. The potential future tax savings that we will be deemed to realize, and the Tax Receivable Agreement payments made by us, will be calculated based on the market value of the Class A Common Stock at the time of each redemption or exchange under the Exchange Agreement and the prevailing tax rates applicable to us over the life of the Tax Receivable Agreement and will depend on us generating sufficient taxable income to realize the tax benefits that are subject to the Tax Receivable Agreement. Any payments made by us under the Tax Receivable Agreement will generally reduce the amount of overall cash flow that might have otherwise been available to us. To the extent that we are unable to make timely payments under the Tax Receivable Agreement for any reason, the unpaid amounts will be deferred and will accrue interest until paid; however, non-payment for a specified period may constitute a material breach of a material obligation under the Tax Receivable Agreement and therefore accelerate payments due under the Tax Receivable Agreement, which could be substantial, as further described below. Furthermore, our future obligation to make payments under the Tax Receivable Agreement could make it a less attractive target for an acquisition, particularly in the case of an acquirer that cannot use some or all of the tax benefits that may be deemed realized under the Tax Receivable Agreement.

In certain cases, payments under the Tax Receivable Agreement may exceed the actual tax benefits we realize or such payments may be accelerated.

Payments under the Tax Receivable Agreement will be based on the tax reporting positions that we determine, and the Internal Revenue Service (the "IRS") or another taxing authority may challenge all or any part of the tax basis increases, as well as other tax positions that we take, and a court may sustain such a challenge. In the event any tax benefits initially claimed by us are disallowed, the current Opcos Equity Holders will not be required to reimburse us for any excess payments that may previously have been made under the Tax Receivable Agreement, for example, due to adjustments resulting from examinations by taxing authorities. Rather, excess payments made to such holders will be netted against any future cash payments otherwise required to be made by us, if any, after the determination of such excess. However, a challenge to any tax benefits initially claimed by us may not arise for a number of years following the initial time of such payment or, even if challenged early, such excess cash payment may be greater than the amount of future cash payments that we might otherwise be required to make under the terms of the Tax Receivable Agreement and, as a result, there might not be future cash payments from which to net against. As a result, in certain circumstances we could make payments under

-54-

the Tax Receivable Agreement in excess of our actual income tax savings, which could materially impair our financial condition.

-40-

[Table of Contents](#)

Moreover, the Tax Receivable Agreement provides that, in the event that (a) we exercise our early termination rights under the Tax Receivable Agreement, (b) the Tax Receivable Agreement is rejected in a bankruptcy proceeding, (c) certain changes of control occur (as described in the Tax Receivable Agreement) or (d) we are more than thirty days late in making of a payment due under the Tax Receivable Agreement (unless we determine that we have insufficient funds to make such payment as a result of obligations imposed in connection with a senior obligation or applicable law), our obligations under the Tax Receivable Agreement will accelerate and we will be required to make an immediate lump-sum cash payment to the Opcos Equity Holders equal to the present value of all forecasted future payments that would have otherwise been made under the Tax Receivable Agreement, which lump-sum payment would be based on certain assumptions, including those relating to our future taxable income. The lump-sum payment to the Opcos Equity Holders could be substantial and could exceed the actual tax benefits that we realize subsequent to such payment because such payment would be calculated assuming, among other things, that we would have certain tax benefits available to it, that we would be able to use the potential tax benefits in future years, and that tax rates applicable to us would be the same as they were in the year of the termination.

There may be a material negative effect on our liquidity if the payments under the Tax Receivable Agreement exceed the actual income tax savings that we realize. Furthermore, our obligations to make payments under the Tax Receivable Agreement could also have the effect of delaying, deferring or preventing certain mergers, asset sales, other forms of business combinations or other changes of control. We may need to incur additional indebtedness to finance payments under the Tax Receivable Agreement to the extent our cash resources are insufficient to meet our obligations under the Tax Receivable Agreement as a result of timing discrepancies or otherwise.

We may have to constrain our business activities to avoid being deemed an investment company under the Investment Company Act.

In general, a company that is or holds itself out as being engaged primarily in the business of investing, reinvesting, or trading in securities may be deemed to be an investment company under the Investment Company Act. The Investment Company Act contains substantive legal requirements that regulate the manner in which "investment companies" are permitted to conduct their business activities. We believe we have conducted, and intend to continue to conduct, our business in a manner that does not result in us being characterized as an investment company. To avoid being deemed an investment company, we may decide not to broaden our offerings, which could require us to forgo attractive opportunities. If we are deemed to be an investment company under the Investment Company Act, we would be required to institute burdensome compliance requirements and our activities would be restricted, which would adversely affect our business, financial condition and results of operations. In addition, we may be forced to make changes to our management team if we are required to register as an investment company under the Investment Company Act.

Broker-dealers are subject to extensive state and federal government regulation in the United States, and our failure or inability to comply with these regulations or regulatory action against us could adversely affect our results of operations, financial condition, or business.

We have recently In 2023, we acquired Bumped, a broker-dealer registered with FINRA, subject to FINRA approval of a CMA filed by Bumped. FINRA. Bumped is registered as a broker-dealer in 52 U.S. states and territories. As such, if the CMA is approved by FINRA completing the acquisition, we will be subject to regulation, examination, investigation, and disciplinary action by the SEC, FINRA, and state securities regulators, as well as other governmental authorities and self-regulatory organizations with which Bumped is registered or licensed or of which Bumped is a member. Our failure or inability to comply with these any of these regulations or any regulatory action against us could adversely affect our results of operations, financial condition, or business.

-55-

We are subject to anti-money laundering and counter terrorist financing laws and regulations, globally, including the USA PATRIOT Act, and failure to comply with such laws and regulations may subject us to liability. There can be no assurance that our employees or agents will not violate such laws and regulations.

-41-

[Table of Contents](#)

We are subject to anti-money laundering and counter terrorist financing laws and regulations globally, including the Bank Secrecy Act, as amended by the USA PATRIOT Act, the regulations promulgated by FinCEN, as well as economic and trade sanctions programs, including those imposed and administered by OFAC. These regulations prohibit, among other things, our involvement in transferring the proceeds of criminal activities. Under OFAC's economic sanctions program, we are prohibited from financial transactions and other dealings with certain countries and geographies and with persons and entities included in OFAC sanctions lists, including its list of Specially Designated Nationals and Blocked Persons.

The United States is also a member of the Financial Action Task Force ("FATF"), an intergovernmental body that establishes international standards to combat money laundering, terrorist financing and other related threats to the integrity of the international financial system. FATF issues guidance that member states are required to observe. More recently, in October 2021, FATF issued the Updated Guidance for Virtual Assets and Virtual Asset Service Providers ("FATF Guidance") which provides additional details regarding expectations for crypto businesses, including those related to due diligence, transmission of transaction data and reporting.

Regulators in the United States, where we currently operate, continue to increase their scrutiny of compliance with these obligations, which may require us to further revise or expand our compliance program. For example, Division F of the National Defense Authorization Act for Fiscal Year 2021, titled the Anti-Money Laundering Act of 2020, makes significant reforms to the Bank Secrecy Act and other anti-money laundering rules. Evaluation and incorporation of changes required under Division F could result in greater costs for compliance. Furthermore, on March 2, 2022, a group of United States Senators sent the Secretary of the United States Treasury Department a letter asking Secretary Yellen to investigate its ability to enforce such sanctions vis-à-vis bitcoin, and on March 8, 2022, President Biden announced an executive order on **cryptocurrencies crypto** that seeks to establish a unified federal regulatory regime for **cryptocurrencies crypto**. We are unable to predict the nature or extent of new and proposed legislation and regulation affecting the **cryptocurrency crypto** industry, or the potential impact of the use of **cryptocurrencies crypto** by Specially Designated Nationals or Blocked Persons, which could have material adverse effects on our business and our industry more broadly. Our failure to comply with such laws and regulations, as required by our regulators, may expose us to liability or enforcement actions.

There also can be no assurance that our employees or agents will not violate such anti-money laundering and counter terrorist financing laws and regulations. A failure by us or our employees or agents to comply with such laws and regulations and subsequent judgment or settlement against us under these laws could subject us to monetary penalties, damages and/or have a significant reputational impact.

Failure to comply with anti-bribery and anti-corruption laws and similar laws could subject us to penalties and other adverse consequences.

We are subject to the U.S. Foreign Corrupt Practices Act of 1977 (the "FCPA"), the U.S. domestic bribery statute contained in 18 U.S.C. § 201, and possibly other anti-bribery and anti-corruption laws in countries outside of the United States where we conduct our activities. Anti-corruption and anti-bribery laws are enforced aggressively and are interpreted broadly to generally prohibit companies, their employees, agents, representatives, clients, and third-party intermediaries from authorizing, offering, or providing, directly or indirectly, improper payments or benefits to recipients in the public or private sector.

We may leverage third parties to sell our products and conduct our business abroad. We, our employees, agents, representatives, clients and third-party intermediaries may have direct or indirect interactions with officials and employees of government agencies or state-owned or affiliated entities and we may be held liable for the corrupt or other illegal activities of these employees, agents, representatives, clients or third-party intermediaries even if we do not explicitly authorize such activities. We cannot assure you that all of our employees, agents, representatives, clients or third-party

-56-

intermediaries will not take actions in violation of applicable law for which we may be ultimately held responsible. As we increase our international sales and business, our risks under these laws may increase.

-42-

[Table of Contents](#)

These laws also require that we keep accurate books and records and maintain internal controls and compliance procedures designed to prevent any such actions. While we have implemented policies and procedures designed to ensure compliance with these laws and regulations, there can be no assurance that none of our employees, agents, representatives, clients or third-party intermediaries will not violate our policies or applicable laws and regulations, for which we may be ultimately held responsible.

Any allegations or violation of the FCPA or other applicable anti-bribery and anti-corruption laws could result in whistleblower complaints, sanctions, settlements, prosecution, enforcement actions, fines, damages, adverse media coverage, investigations, loss of export privileges, severe criminal or civil sanctions, or suspension or debarment from government contracts, all of which may have an adverse effect on our reputation, business, results of operations, and prospects. Responding to any investigation or action will likely result in a materially significant diversion of management's attention and resources and significant defense costs and other professional fees.

We are subject to federal and state consumer protection laws and regulations in the jurisdictions in which we operate, which may result in liability or expense, including potential private rights of action, if we do not comply, or it is alleged that we do not to comply, with such laws.

We are subject to federal and state consumer protection laws and regulations in the jurisdictions in which we operate. In the United States, Bakkt Marketplace is subject to federal and state consumer protection laws and regulations applicable to its activities, including the Electronic Fund Transfer Act ("EFTA") and Regulation E as implemented by the CFPB. These regulations require us to provide advance disclosure of changes to our services, follow specified error resolution procedures and reimburse consumers for losses from certain transactions not authorized by the consumer, among other requirements. There are uncertainties associated with being subject to consumer protection rules and regulations of the CFPB and other regulators, including in the application of certain rules and regulations to our business model and to crypto. Bakkt Marketplace may be considered a "covered person" for purposes of the CFPB's enforcement authority and may additionally be subject to the authority of the Federal Trade Commission. Under certain consumer protection rules and regulations, we may be exposed to significant liability to consumers in the event that there is an incident which results in a large number of unauthorized and fraudulent transfers out of our system. Additionally, we could face private litigation by consumers under consumer protection laws and regulations that have private rights of action. Technical violations of consumer protection laws could result in the assessment of actual damages or statutory damages or penalties of up to \$1,000 in individual cases or up to \$500,000 per violation in any class action and treble damages in some instances; we could also be liable for plaintiffs' attorneys' fees in such cases. We could be subject to, and could be required to pay amounts in settlement of, lawsuits containing allegations that our business violated the EFTA and Regulation E or otherwise advance claims for relief relating to our business practices.

We have implemented certain changes to comply with the CFPB's rule on prepaid accounts, which requires, among other things, the disclosure of fees and other information to the consumer prior to the creation of a prepaid account, some of which constitute substantial changes to the design of certain U.S. consumer accounts and their operability, which could lead to consumer dissatisfaction, require us to reallocate resources, and increase our costs, which could negatively affect our business.

Complying with evolving privacy and other data related laws and requirements may be expensive and force us to make changes to our business, and failure to comply with such laws and requirements could result in substantial harm to our business.

We are subject to a number of laws, rules, directives and regulations ("privacy laws") relating to the collection, use, retention, security, transfer and other processing and transfer of personally identifiable personal information about our consumers, employees, and other individuals ("personal data") in the jurisdictions where we operate. Our business relies on the processing of data and the movement of data, and, as a result, much of the personal data that we process, especially financial information, may be

-57-

regulated by multiple privacy laws. In many cases, these laws apply not only to third-party transactions, but also to transfers of information between or among us, our subsidiaries and other parties with which we have commercial

-43-

Table of Contents

relationships. Regulatory scrutiny of privacy, data protection and the collection, storage, use and sharing of personal data is increasing across multiple jurisdictions.

Furthermore, laws relating to privacy, and data protection and cybersecurity, including with respect to the use of data in artificial intelligence and machine learning, are rapidly evolving, extensive, complex and include inconsistencies and uncertainties. Examples of recent and anticipated developments that have or could impact our business include the following:

- The California Consumer Privacy Act ("CCPA"), as amended by the California Privacy Rights ("CPRA") provide California residents increased privacy rights and protections with respect to certain sensitive personal information, including the ability to opt out of sales of their personal information. The CPRA also creates a new state agency that will be vested with authority to implement and enforce the CCPA and the CPRA.
- In March 2021, Numerous other U.S. states are considering, and in certain cases have adopted, laws similar to the Governor of Virginia signed into law the Virginia Consumer Data Protection Act ("VCDPA") (effective January 1, 2023). The VCDPA creates consumer rights CCPA. For example, legislation similar to the CCPA but has been adopted in Virginia, Colorado, Utah, Connecticut, Iowa, Indiana, Montana, Tennessee, Oregon, Florida, Delaware, Texas, and New Jersey. The U.S. federal government has also imposed security considered privacy legislation. These and assessment requirements for businesses.
- In July 2021, Colorado enacted the Colorado Privacy Act, which closely resembles the VCDPA, other new and like the VCDPA, will be enforced by the state Attorney General and district attorney.
- Other U.S. states are considering adopting similar laws. The enactment of such evolving laws could have potentially conflicting requirements that would make compliance challenging.

- The United States government is considering regulating artificial intelligence and machine learning.
- The certifications we maintain and the standards we comply with, including the Payment Card Industry Data Security Standard, among others, are becoming more stringent.

These and other similar legal and regulatory developments could contribute to legal and economic uncertainty, affect how we design, market, sell and operate our platform, how our clients, customers and vendors process and share data, how we process and use data, and how we transfer personal data from one jurisdiction to another, which could negatively impact demand for our platform. We may incur substantial costs to comply with such laws and regulations, to meet the demands of our clients relating to their own compliance with applicable laws and regulations, and to establish and maintain internal policies, self-certifications and third-party certifications supporting our compliance programs. Our clients may delegate their obligations relating to these or other laws or regulations to us via contract, and may impose additional obligations upon us via contract. More generally, we may otherwise be required to expend resources to assist our clients with such compliance obligations, obligations and to comply with our contractual obligations to our clients. In addition, any actual or perceived non-compliance with applicable laws, regulations, policies, industry data protections, security standards, certifications, and certifications other actual or alleged obligations or undertakings relating to privacy or cybersecurity could result in proceedings, investigations, or claims against us by regulatory authorities, consumers, clients, or others, leading to reputational harm, significant fines, litigation costs, damages and damages, other liabilities. Furthermore, many foreign countries and governmental bodies have laws and regulations concerning the collection, use, processing, storage, and deletion of personal information data obtained from their residents or by businesses operating within their jurisdiction. These laws and regulations often are more restrictive than those in the United States. As we expand our business activities into jurisdictions beyond the United States, including as a result of the Apex acquisition if consummated, our practices, offerings, or platform could fail, or be alleged to fail to meet applicable requirements in the jurisdictions in which we operate. All of these impacts could have a material adverse effect on our business, financial condition and results of operations.

We may at times fail to comply with our privacy policies or other notices or statements we may make regarding the collection, processing, use, disclosure and disclosure other processing of personal data, including credit card information, and certain other information or may be perceived to have failed to do so. We may also not be successful in achieving compliance if our employees or vendors fail to comply with our published policies, certifications, documentation, notices and documentation, statements. Such failures can subject us to potential local, state and federal action if they are found to be deceptive, unfair, or misrepresentative of our actual practices.

-58-

In addition, because of the large number of text messages, emails, phone calls and other communications we send or make to our consumers for various business purposes, communication-related privacy laws that provide a specified monetary damage award or fine for each violation could result in particularly significant damage awards or fines. For

-44-

Table of Contents

example, under the Telephone Consumer Protection Act ("TCPA"), in the U.S., plaintiffs may seek actual monetary loss or statutory damages of \$500 per violation, whichever is greater, and courts may triple the damage award for willful or knowing violations. We could be subject to lawsuits (including class-action lawsuits) containing allegations that our business violated the TCPA. These lawsuits seek damages (including statutory damages) and injunctive relief, among other remedies. Given the large number of communications we send to our consumers, a determination that there have been violations of the TCPA or other communications-based statutes could expose us to significant damage awards that could, individually or in the aggregate, materially harm our business.

We may be unable to sufficiently protect our proprietary rights and may encounter disputes from time to time relating to our use of the intellectual property of third parties.

We rely on a combination of trademarks, patents, service marks, copyrights, trade secrets, domain names and agreements with employees and third parties to protect our proprietary rights. Nonetheless, third parties may challenge, invalidate or circumvent our intellectual property, and our intellectual property may not be sufficient to provide it with a competitive advantage.

Despite our efforts to protect these rights, unauthorized third parties may attempt to duplicate or copy the proprietary aspects of our technology and processes. Our competitors and other third parties independently may design around or develop similar technology or otherwise duplicate our services or products such that we could not assert our intellectual property rights against them. In addition, our contractual arrangements may not effectively prevent disclosure of our intellectual property and confidential and proprietary information or provide an adequate remedy in the event of an unauthorized disclosure. Measures in place may not prevent misappropriation or infringement of our intellectual property or proprietary information and the resulting loss of competitive advantage, and we may be required to litigate to protect our intellectual property and proprietary information from misappropriation or infringement by others, which is expensive, could cause a diversion of resources and may not be successful.

We also may encounter disputes from time to time concerning intellectual property rights of others, and we may not prevail in these disputes. Third parties may raise claims alleging that we, or consultants or other third parties retained or indemnified by us, infringe on their intellectual property rights. Given the complex, rapidly changing and competitive technological and business environment in which we operate, and the potential risks and uncertainties of intellectual property-related litigation, an assertion of an infringement claim against us may cause us to spend significant amounts to defend the claim, even if we ultimately prevail, pay significant money damages, lose significant revenues, be prohibited from using the relevant systems, processes, technologies or other intellectual property (temporarily or permanently), cease offering certain products or services, or incur significant license, royalty or technology development expenses.

Regulatory requirements upon a change of control of our regulated subsidiaries may require an investor to obtain prior approval or submit information to regulators upon acquiring a direct or indirect controlling interest in us.

Certain of our subsidiaries are subject to regulatory supervision, including the requirement to obtain prior consent from the relevant regulator when a person holds, acquires or increases a controlling interest in those entities. For instance, under certain state money transmitter regulations, no person may hold or acquire, alone or together with others, a direct or indirect stake of 10% or more of us, or exercise, directly or indirectly, a controlling influence over us or any of the regulated subsidiaries. Under other state money transmitter regulations, that threshold may be higher.

Non-compliance with those requirements may lead to injunctions, penalties and sanctions against us as well as the person seeking to hold, acquire or increase a controlling interest, may subject the relevant transactions to cancellation or forced sale, and may result in increased regulatory compliance requirements or other potential regulatory restrictions on our business (including in respect of matters such as corporate governance, restructurings, mergers and acquisitions, financings

-59-

and distributions). If any of this were to occur, it could damage our reputation, limit our growth and materially and adversely affect our business, financial condition and results of operations.

-45-

Table of Contents

Our tax information reporting obligations with respect to transactions involving loyalty points or other incentives are subject to change.

Under the current law, we do not believe that we are required to file any information returns with taxing authorities with respect to the issuance by our clients of loyalty points or other incentives, and we believe that we are in compliance with our tax information reporting obligations with respect to incentives that we issue. There can be no assurance that the IRS will not challenge our position, or that the applicable laws and administrative guidance will not change in a manner requiring us to provide additional tax information reporting to our customers.

It is unclear whether the conversion to cash or crypto of loyalty points by means of using our platform is or may become subject to information reporting by us. In our capacity as the facilitator of an exchange on which such transactions occur, we may be deemed to have certain information reporting obligations to the IRS or another taxing authority. The IRS has provided limited guidance with respect to information reporting obligations for transactions involving loyalty points or other incentives, and, absent future regulatory or administrative guidance, we expect to file information returns with the IRS for only a limited number of such transactions. There can be no assurances, however, that the IRS will not take a contrary position with respect to our information reporting obligations. If the IRS were to successfully challenge our position with respect to its information reporting obligations or if it were ultimately determined that the conversion of loyalty points to cash or crypto is subject to information reporting obligations, we could potentially be subject to penalties for any failure to satisfy such information reporting obligations. Additionally, changes in applicable laws and administrative guidance could impose such obligations on us. For example, under the Infrastructure Investment and Jobs Act of 2021 (Pub. L. 117-58) (the "Infrastructure Act"), we may be treated as a "broker" with respect to crypto transactions we facilitate. As a result, we may be required to file certain information reports, including customer's names and addresses, gross proceeds from sales, and any capital gains or losses to the IRS. ~~The In August 2023, the IRS has not yet provided any administrative guidance with respect published proposed regulations on tax reporting requirements for cryptocurrency brokers, which were intended to implement the application of this new legislation to companies like ours.~~ changes in law enacted by the Infrastructure Act. Such changes in our tax information reporting obligations may have a negative effect on the experience of our customers and may significantly increase our compliance costs. As a result of the foregoing, our planned business model may be adversely affected or it may incur additional costs in connection therewith.

Changes in tax laws or their judicial or administrative interpretations, or becoming subject to additional taxes that cannot be passed through to our loyalty customers, could negatively affect our business, financial condition and results of operations.

Our operations may be subject to extensive tax liabilities, including federal and state income taxes and other taxes, such as excise, sales/use, payroll, franchise, withholding and ad valorem taxes. Changes in tax laws or their judicial or administrative interpretations could decrease the amount of revenues we receive, the value of any tax loss carryforwards and tax credits recorded on our balance sheet and the amount of our cash flow and may have a material adverse impact on our business, financial condition and results of operations. Some of our tax liabilities may be subject to periodic audits by the applicable taxing authority, which could increase our tax liabilities. Furthermore, we may become subject to taxation in various taxing jurisdictions. If we are required to pay additional taxes and are unable to pass the tax expense through to our customers, our costs would increase and our net income would be reduced, which could have a material adverse effect on our business, financial condition and results of operations.

Because there is limited guidance for tax reporting or accounting of bitcoin and other crypto transactions, the determination that we have made for how to account for or report the tax treatment of crypto transactions may be subject to change and challenge by relevant tax authorities in various countries, including the United States. Failure to properly report activity related to crypto for tax or accounting purposes may have negative regulatory or legal outcomes and harm our reputation.

-60-

Because there has been limited guidance for the tax reporting or accounting of crypto and limited guidance has been provided by the IRS, it is unclear how crypto transactions or other actions related to crypto (such as forks, provision of staking rewards and other crypto incentives and rewards products or other similar items) and related tax consequences should be accounted for or reported for tax purposes. In 2014, the IRS released Notice 2014-21, IRB 2014-16, or IRS

-46-

[Table of Contents](#)

Notice, discussing certain aspects of "convertible virtual currency" (that is, crypto currency that has an equivalent value in real (or fiat) currency or that acts as a substitute for fiat currency) for U.S. federal income tax purposes. IRS stated that such crypto currency is treated as "property", not "currency" for purposes of the rules relating to foreign currency gain or loss, and may be held as a capital asset. In 2019, the IRS released Revenue Ruling 2019-24 and a set of "Frequently Asked Questions", or the 2019 Revenue Ruling & FAQs, that provide some additional guidance, including guidance to the effect that, under certain circumstances, hard forks of crypto currencies are taxable events giving rise to ordinary income and guidance with respect to the determination of the tax basis of crypto currency. In 2023, the IRS released Revenue Ruling 2023-14, or the 2023 Revenue Ruling, that provides a cash-method taxpayer that receives additional units of crypto from staking must include those rewards in gross income. However, the IRS Notice, and the 2019 Revenue Ruling & FAQs and the 2023 Revenue Ruling do not address other significant aspects of the U.S. federal income tax treatment of crypto and related transactions. Moreover, although the Revenue Ruling & FAQs address the treatment of forks, there continues to be uncertainty with respect to the timing and amount of income inclusions for various crypto transactions including, but not limited to, staking rewards and other crypto products. Furthermore, the accounting treatment for revenues from cryptocurrency crypto transactions is currently under review and subject to change. Failure to properly account for and report the transactions and other items related to the crypto held by our consumers to relevant tax authorities, such as the IRS, could have negative outcomes for us and harm our reputation with consumers and others.

There can be no assurance that the IRS or other foreign tax authority will not alter its existing positions with respect to crypto in the future or that a court would uphold the treatment set forth in the existing IRS guidance. It is also unclear what additional guidance may be issued in the future on the treatment of existing crypto transactions and future crypto innovations for purposes of U.S. federal income tax or other foreign tax regulations. Any such alteration of existing IRS and foreign tax authority positions or additional guidance regarding crypto products and transactions could result in adverse tax consequences for holders of crypto and could have an adverse effect on the value of crypto and the broader crypto markets. Future technological and operational developments that may arise with respect to crypto currencies may increase the uncertainty with respect to the treatment of crypto currencies for U.S. federal income and foreign tax purposes. The uncertainty regarding tax treatment of crypto transactions impacts our customers, and could impact our business, both domestically and abroad.

It is likely that the IRS will introduce new rules related to our tax reporting and withholding obligations on our customer transactions in the future, possibly in ways that differ from our existing compliance protocols and where there is risk that we do not have proper records to ensure compliance for certain legacy customers. If the IRS determines that we are not in compliance with our tax reporting or withholding requirements with respect to customer crypto transactions, we may be exposed to significant penalties, which could adversely affect our financial position. We anticipate additional guidance from the IRS regarding tax reporting and withholding obligations with respect to customer crypto transactions that will likely require us to invest substantially in new compliance measures and may require significant retroactive compliance efforts, which could adversely affect our financial position. Similarly, it is likely that new rules for reporting crypto under the "common reporting standard" will be implemented on our international operations, creating new obligations and a need to invest in new onboarding and reporting infrastructure. Such rules are under discussion today by the member and observer states of the "Organization for Economic Cooperation and Development" and may give rise to potential liabilities or disclosure requirements for prior customer arrangements and new rules that affect how we onboard our customers and report their transactions to taxing authorities.

Our ability to use net operating losses to offset future taxable income may be subject to certain limitations under U.S. or foreign tax law.

Under Section 382 of the Internal Revenue Code of 1986, as amended (the "Code"), a corporation that undergoes an "ownership change" is subject to limitations on its ability to utilize its net operating losses, or NOLs to offset future taxable income. Future changes in our stock ownership, the causes of which may be outside of our control, could result in an ownership change under Section 382 of the Code. Any future NOLs we generate may also be impaired under state laws.

-61-

In addition, under the 2017 Tax Cuts and Jobs Act, or Tax Act, future tax losses may be utilized to offset no more than 80% of taxable income annually. Under the Coronavirus Aid, Relief, and Economic Security, or CARES Act, signed into law in March 2020, the limitation on the deduction of NOLs to 80% of current year taxable income is eliminated for taxable years beginning before January 1, 2021. We may be required to pay federal income taxes in future years despite

-47-

[Table of Contents](#)

generating a loss for federal income tax purposes. There is also a risk that due to statutory or regulatory changes, such as suspensions on the use of NOLs, or other unforeseen reasons, our future NOLs could expire or otherwise be unavailable to offset future income tax liabilities. Based on state conformity or the lack thereof to the provisions in the Tax Act, as amended by the CARES Act, there is the potential that the Company may also be required to pay state income taxes despite generating a loss for state income tax purposes. For these reasons, we may not be able to realize a tax benefit from the use of any future NOLs we generate, whether or not we attain profitability.

We may be subject to various governmental export control and trade sanctions laws and regulations that could impair our ability to compete in international markets or subject us to liability if we violate these controls.

In some cases, our platform may be subject to export control laws and regulations, including the Export Administration Regulations administered by the U.S. Department of Commerce, and our activities may be subject to trade and economic sanctions, including those administered by the United States Department of the Treasury's Office of Foreign Assets Control, or OFAC (collectively, "Trade Controls"). As such, a license may be required to make our platform available to certain countries and end-users, and for certain end-uses. The process for obtaining necessary licenses may be time-consuming or unsuccessful, potentially causing delays in sales or losses of sales opportunities, and these licenses may not be issued. Trade Controls are complex and dynamic regimes and monitoring and ensuring compliance can be challenging. Although we have procedures in place designed to ensure our compliance with Trade Controls, any failure to comply could subject us to both civil and criminal penalties, including substantial fines, possible incarceration of responsible individuals for willful violations, possible loss of our export or import privileges, and reputational harm.

In addition, various countries regulate the import of certain encryption technology, including through import permit and license requirements, and have enacted laws that could limit our ability to distribute our software and services or could limit our customers' ability to implement our platform in those countries. Changes in our platform or changes in export and import regulations in such countries may create delays in the introduction of our platform into international markets, prevent our customers with international operations from deploying our platform globally or, in some cases, prevent or delay the export or import of our software and services to certain countries, governments, or persons altogether.

Risks Related to Information Technology and Data

Actual or perceived cyberattacks, security incidents or breaches could result in serious harm to our reputation, business and financial condition.

Our business involves the collection, storage, processing and transmission of confidential information and customers' personal data, including financial information and information about how customers interact with our platform. We have built our reputation on the premise that we offer customers a secure and convenient way to manage their crypto. We also maintain and process other information in our business, including our own proprietary, confidential, or otherwise sensitive information, and information we maintain or otherwise process for third parties. An increasing number of organizations, including large merchants, businesses, technology companies and financial institutions, as well as government institutions, have disclosed breaches of their information security systems, some of which have involved sophisticated and highly targeted attacks, including on their websites, mobile applications and infrastructure.

The techniques used to obtain unauthorized, improper, or illegal access to systems and information (including customers' personal data), disable or degrade service, or sabotage systems are constantly evolving and have become very complex and sophisticated, may be difficult to detect quickly, and often are not recognized or detected until after they have been launched against a target. We may be unable to anticipate these techniques or to implement adequate preventative measures, and any cyberattack, breach or other security incident may take longer than expected to remediate or otherwise address. Unauthorized parties have attempted, and we expect that they will continue to attempt, to gain access to our systems or facilities through various means, including, but not limited to, hacking into our systems or facilities or those of our customers or vendors, and attempting to fraudulently induce users of our systems (including employees and customers)

-62-

into disclosing customer names, passwords, payment card information, or other sensitive information, which may in turn be used to access our information technology systems, or to steal crypto stored by our customers. Threats can come from a

-48-

Table of Contents

variety of sources, including criminal hackers, hacktivists, state-sponsored intrusions, industrial espionage and insider threats. Certain efforts may be supported by significant financial and technological resources, making them even more sophisticated and difficult to detect. The Russia-Ukraine war and Israel-Hamas war, and other geopolitical tensions and military conflicts, may increase the risks we and our vendors face from cyberattacks. Numerous and evolving cybersecurity threats, including advanced and persistent cyberattacks, cyberextortion, ransomware, denial-of-service attacks, spear phishing and social engineering schemes, the introduction of computer viruses, ransomware or other malware, and the physical destruction of all or portions of our information technology and infrastructure could compromise the confidentiality, availability and integrity of the information (including consumers' personal data) in our systems. Although we have developed systems and processes designed to protect information we manage, prevent data loss and other security breaches and effectively respond to known and potential risks, and we expect to continue to expend significant resources to bolster these protections, there can be no assurance that these security measures will provide absolute security or have prevented or will prevent breaches, security incidents or attacks, in particular, as the frequency and sophistication of cyberattacks increases.

Our information technology and infrastructure and those of our vendors (including data center and cloud computing providers) may be vulnerable to cyberattacks, security incidents and breaches and third parties may be able to access our customers' personal data and/or proprietary information, banking, crypto and payment card information, or other confidential, proprietary, or otherwise sensitive information, stored on or accessible through those systems. We have experienced from time to time, and may experience in the

future, security incidents or breaches due to human error, malfeasance, insider threats, system errors, bugs, vulnerabilities, or other **irregularities**. **causes**. Actual or perceived breaches of our or our vendors' security could, among other things:

- interrupt our operations;
- result in our systems or services being unavailable or degraded;
- result in improper disclosure **or other processing** of information (including consumers' personal data) and **actual or perceived** violations of applicable privacy and other laws;
- materially harm our reputation;
- result in significant liability claims, litigation, regulatory scrutiny, investigations **and other proceedings**, fines, penalties and other legal and financial exposure;
- cause us to incur significant remediation costs;
- lead to loss or theft of customer crypto or loyalty **points**; **points and other harm to customers**;
- **lead to loss or theft of intellectual property**;
- lead to loss of customer confidence in, or decreased use of, our products and services;
- divert the attention of management from the operation of our business;
- result in significant compensation or contractual penalties from us to our customers as a result of losses to them or claims by them; and
- adversely affect our business and results of operations.

We have expended and expect to continue to invest in resources to protect against privacy and security incidents and breaches and may be required to redress problems caused by privacy and security incidents or breaches. We have implemented remote and hybrid working protocols and offer work-issued devices to certain employees, but the actions of employees while working remotely may have a greater effect on the security of our infrastructure, networks, and the information, including personal data, we process, including for example by increasing the risk of compromise to systems or information arising from employees' combined personal and private use of devices, accessing our networks or information

-63-

using wireless networks that we do not control, or the ability to transmit or store information outside of our secured network. Our employees' or third parties' intentional, unintentional, or inadvertent actions may increase our vulnerability or expose us to security threats, such as ransomware, other malware and phishing attacks, and we may remain responsible for unauthorized access to, loss, alteration, destruction, acquisition, disclosure or other processing of information we or our vendors process or otherwise maintain, even if the security measures used to protect such information comply with applicable laws, regulations and other actual or asserted obligations. Also, cyberattacks, including on the supply chain,

-49-

Table of Contents

continue to increase in frequency and magnitude, and we cannot provide assurances that our preventative efforts will be successful.

Financial services regulators in various jurisdictions have implemented authentication requirements for banks and payment processors intended to reduce online fraud, which could impose significant costs, require us to change our business practices, make it more difficult for new consumers to join us, and reduce the ease of use of our platform, which could harm our business. Our insurance policies may not be adequate to reimburse us for losses caused by security incidents or breaches. We also cannot be certain that our insurance coverage will be adequate for incurred information security liabilities, that insurance will continue to be available to us on economically reasonable terms, or at all, or that an insurer will not deny coverage as to any future claim. The successful assertion of one or more large claims against us that exceed available insurance coverage, or the occurrence of changes in our insurance policies, including premium increases or the imposition of large deductible or co-insurance requirements, could have a material adverse effect on our business, including our financial condition, results of operations, and reputation.

Systems failures and resulting interruptions in the availability of our websites, applications, products or services could harm our business.

Our systems and those of our service providers and clients have experienced from time to time, and may experience in the future service interruptions or degradation because of hardware and software defects or malfunctions, insider threats, human error, earthquakes, hurricanes, floods, fires and other natural disasters, power losses, disruptions in telecommunications services, fraud, **geopolitical tensions**, and **military or political conflicts** (including ongoing geopolitical tensions related to Russia's actions in Ukraine, **resulting sanctions imposed by the U.S.** **Russia-Ukraine** and **other countries**, and **retaliatory actions taken by Russia or its allies in response to such sanctions**) **Israel-Hamas wars**), terrorist attacks, computer viruses, **ransomware** or other malware, or other events. We have experienced from time to time, and may experience in the future, disruptions in our systems. In addition, as a provider of payments solutions and crypto trading and custody solutions, we are subject to heightened scrutiny by regulators that may require specific business continuity, resiliency and disaster recovery plans and more rigorous testing of such plans, which may be costly and time-consuming to implement, and may divert our resources from other business priorities.

We have experienced and expect to continue to experience system failures, denial-of-service attacks and other events or conditions from time to time that interrupt the availability, or reduce or adversely affect the speed or functionality, of our products and services. These events have resulted and likely will result in loss of revenue. A prolonged interruption in the availability or reduction in the availability, speed, or functionality of our products and services could materially harm our business. Frequent or persistent interruptions in our services could cause current or potential clients to believe that our systems are unreliable, leading them to switch to competitors or to avoid or reduce the use of our platform, and could permanently harm our reputation. Moreover, if any system failure or similar event results in damages to our customers, these clients could seek significant compensation or contractual penalties from us for their losses, and those claims, even if unsuccessful, would likely be time-consuming and costly for us to address, and could have other consequences described in this "Risk Factors" section under the caption "*Actual or perceived cyberattacks, security incidents, or breaches could result in serious harm to our reputation, business and financial condition.*" Further, frequent or persistent site interruptions could lead to regulatory scrutiny, significant fines and penalties and mandatory and costly changes to our business practices, and ultimately could cause us to lose existing licenses that we need to operate or prevent or delay us from obtaining additional licenses that may be required for our business.

We also rely on facilities, components, applications and services supplied by third parties, including data center facilities and cloud storage services, which subjects us to risks in the nature of those discussed in this "Risk Factors" section under the caption "*We face operational, legal and other risks related to our reliance on third party vendors, over*

-64-

which we have no control." From time to time, such third parties may cease to provide us with such facilities and services. Additionally, if these third parties experience operational interference or disruptions, breach their agreements with us, fail to perform their obligations and meet our expectations, or experience a cyberattack, security incident or breach, our operations could be disrupted or otherwise negatively affected, which could result in consumer dissatisfaction, regulatory scrutiny and damage to our reputation and brands and materially and adversely affect our business. Our business

-50-

Table of Contents

interruption insurance coverage may be insufficient to compensate us for all losses that may result from interruptions in our service as a result of systems failures and similar events.

Implementation of new systems and technologies is complex, expensive and time-consuming. If we fail to timely and successfully implement new information systems and technologies, or improvements or upgrades to existing information systems and technologies, or if such systems and technologies do not operate as intended, this could have an adverse impact on our business, internal controls (including internal controls over financial reporting), results of operations and financial condition.

If we use open source software inconsistent with our policies and procedures or the license terms applicable to such software, we could be subject to legal expenses, damages, or costly remediation or disruption to our business.

We use open source software in our platform. While we have policies and procedures in place governing the use of open source software, there is a risk that we incorporate open source software with onerous licensing terms, including the obligation to make our source code available for others to use or modify without compensation. If we receive an allegation that we have violated an open source license, we may incur significant legal expenses, be subject to damages, be required to redesign our platform to remove the open source software, or be required to comply with onerous license restrictions, all of which could have a material impact on our business. Even in the absence of a claim, if we discover the use of open source software inconsistent with our policies, we could expend significant time and resources to replace the open source software or obtain a commercial license, if available. All of these risks are heightened by the fact that the ownership of open source software can be uncertain, leading to litigation, and many of the licenses applicable to open source software have not been interpreted by courts, and these licenses could be construed to impose unanticipated conditions or restrictions on our ability to commercialize our products. Any use of open source software inconsistent with our policies or licensing terms could harm our business and financial position.

Risks Related to Risk Management and Financial Reporting

Real or perceived inaccuracies in our key operating metrics may harm our reputation and negatively affect our business.

We track certain key operating metrics with internal systems and tools that are not independently verified by any third party. While the metrics presented in this Annual Report on Form 10-K are based on what we believe to be reasonable assumptions and estimates, our internal systems and tools have a number of limitations, and our methodologies for tracking these metrics may change over time. In addition, limitations or errors with respect to how we measure data or with respect to the data that we measure may affect our understanding of certain details of our business, which could affect our long-term strategies. If the internal systems and tools we use to track these metrics understate or overstate performance or contain algorithmic or other technical errors, the key operating metrics we report may not be accurate. If investors do not perceive our operating metrics to be accurate, or if we discover material inaccuracies with respect to these figures, our reputation may be significantly harmed and our results of operations and financial condition could be adversely affected.

If we are unable to develop and maintain effective internal controls over financial reporting, we may not be able to produce timely and accurate financial statements, which could have a material adverse effect on our business.

We have limited accounting and finance personnel and other resources and must develop our own internal controls and procedures consistent with SEC regulations. We intend to continue to evaluate actions to enhance our internal controls over financial reporting, but there is no assurance that we will **not** identify control deficiencies or material weaknesses in the future. **Furthermore, in accordance with SEC guidance, our assessment of our internal controls over financial reporting**

-65-

has excluded Bakkt Crypto. There is no assurance that we will not identify control deficiencies or material weaknesses when our assessment include Bakkt Crypto in future periods.

The Sarbanes-Oxley Act requires, among other things, that we maintain effective internal control over financial reporting and disclosure controls and procedures. Pursuant to the Sarbanes-Oxley Act we are required to make a formal assessment of the effectiveness of our internal control over financial reporting, and once we cease to be an "emerging growth company" under the JOBS Act, we will also be required to include an attestation report on internal control over financial reporting issued by our independent registered public accounting firm.

-51-

[Table of Contents](#)

To comply with Section 404 of the Sarbanes-Oxley Act, we have incurred substantial cost, expended significant management time on compliance-related issues and hired additional accounting and financial staff with appropriate public company experience and technical accounting knowledge. We expect these costs to increase once we cease to be an emerging growth company and be required to provide an attestation report on internal controls over financial reporting. Moreover, if we are not able to comply with the requirements of Section 404 of the Sarbanes-Oxley Act in a timely manner or if we or our independent registered public accounting firm identify deficiencies in our internal control over financial reporting that are deemed to be material weaknesses, we could be subject to sanctions or investigations by the SEC or other regulatory authorities, which would require additional financial and management resources.

Any failure to maintain effective disclosure controls and procedures or internal control over financial reporting could have an adverse effect on our business and operating results, and cause a decline in the price of our securities.

If our estimates or judgments relating to our critical accounting policies prove to be incorrect, our results of operations could be adversely affected.

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, disclosure of contingent assets and liabilities at the date of the condensed financial statements and income and expenses during the periods reported. Actual results could materially differ from those estimates and the amounts reported in our consolidated financial statements and accompanying notes appearing elsewhere in this Annual Report on Form 10-K. We base our estimates on historical experience and on various other assumptions that we believe to be reasonable under the circumstances. The results of these estimates form the basis for making judgments about the carrying values of assets, liabilities and equity, and the amount of revenue and expenses that are not readily apparent from other sources. Significant estimates and judgments involve those related to **going concern**, revenue recognition, internal-use software development costs, valuation of our stock-based compensation awards, including the determination of fair value of our common stock, accounting for income taxes, the carrying value of operating lease right-of-use assets and useful lives of long-lived assets, among others. Our results of operations may be adversely affected if our assumptions change or if actual circumstances differ from those in our assumptions, which could cause our results of operations to fall below the expectations of securities analysts and investors, resulting in a decline in the market price of our securities.

Our management has limited experience in operating a public company.

Certain of our executive officers and directors, **including our incoming Chief Executive Officer**, have limited experience in the management of a publicly traded company. Such limited experience in dealing with the complex laws pertaining to public companies could be a disadvantage and result in a significant amount of their time being devoted to these activities, which will result in less time being devoted to our management and growth.

If members or former members of our management engage in business activities of the types conducted by us, we may be materially adversely affected.

Certain members and former members of our management and their affiliates have in the past provided management services to other finance and technology companies that may compete with us. Certain members and former members of our management have entered into restrictive covenant agreements with non-competition provisions. If these

-66-

agreements are not effective in preventing these parties from engaging in business activities that are competitive with us, it could have a material adverse effect on our business, financial condition, results of operations or prospects and our ability to make distributions to our equity holders.

We have incurred and continue to incur increased costs as a public company, and our management is required to devote substantial time to compliance matters.

As a public company, we have incurred and expect to continue to incur significant legal, accounting, reporting and other expenses we did not incur as a private company, including costs associated with public company reporting requirements (which expenses may increase once we no longer qualify as an "emerging growth company" under the JOBS Act) and costs of recruiting and retaining non-executive directors. We also have incurred, and will continue to incur, costs associated with compliance with the rules and regulations of the SEC, the listing requirements of NYSE, and various other costs of a public company. The expenses generally incurred by public companies for reporting and corporate governance purposes have been increasing. Our management needs to devote a substantial amount of time to ensure that we comply with all of these requirements. These laws and regulations also could make it more difficult and costly for us to obtain certain types of insurance, including director and officer liability insurance, and we may be forced to accept reduced policy limits and coverage or incur substantially higher costs to obtain the same or similar coverage. These laws and regulations could also make it more difficult to attract and retain qualified persons to serve on our Board and Board committees and serve as executive officers.

-52-

Table of Contents

Furthermore, if we are unable to satisfy our obligations as a public company, we could be subject to delisting of our securities, fines, sanctions and other regulatory action and potentially civil litigation.

We are an "emerging growth company" and a "smaller reporting company" and any decision to comply with certain reduced reporting and disclosure requirements applicable to emerging growth companies and smaller reporting companies could make our securities less attractive to investors.

We are an "emerging growth company," as defined in the JOBS Act. For as long as we continue to be an emerging growth company, we may choose to take advantage of exemptions from various reporting requirements applicable to other public companies but not to "emerging growth companies," including:

- not being required to have an independent registered public accounting firm audit our internal control over financial reporting under Section 404 of the Sarbanes-Oxley Act;
- reduced disclosure obligations regarding executive compensation in our periodic reports and annual report on Form 10-K; and
- exemptions from the requirements of holding non-binding advisory votes on executive compensation and stockholder approval of any golden parachute payments not previously approved.

As a result, our stockholders may not have access to certain information that they may deem important. Our status as an emerging growth company will end as soon as any of the following takes place:

- the last day of the fiscal year in which we had at least \$1.235 billion in annual revenue;
- the date we qualify as a "large accelerated filer," with at least \$700.0 million of equity securities held by non-affiliates;
- the date on which we have issued, in any three-year period, more than \$1.0 billion in non-convertible debt securities; or
- December 31, 2025.

Under the JOBS Act, emerging growth companies can also delay adopting new or revised accounting standards until such time as those standards apply to private companies. We have elected to take advantage of this extended transition period and as a result, our financial statements may not be comparable with similarly situated public companies. To the

-67-

extent that we continue to qualify as a "smaller reporting company," as such term is defined in Rule 12b-2 under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), after we cease to qualify as an emerging growth company, we will continue to be permitted to make certain reduced disclosures in our periodic reports and other documents that we file with the SEC.

If some investors find our securities less attractive because we rely on any of these exemptions, there may be a less active trading market for such securities and the market price of such securities may be more volatile and may decline.

Future changes in financial accounting standards may significantly change our reported results of operations.

GAAP is subject to standard setting or interpretation by the Financial Accounting Standards Board ("FASB"), the SEC and various bodies formed to promulgate and interpret appropriate accounting principles. A change in these principles or interpretations could have a significant effect on our reported financial results. For example, the accounting treatment for revenues from **cryptocurrency crypto** transactions is under review and subject to change. To the extent we account for revenue from **cryptocurrency crypto** transactions in a manner that is different than the manner ultimately established by the SEC and GAAP, such revenue information, and the timing of revenue recognition, could vary materially and require subsequent adjustment. Any such adjustment could materially impact our reported results of operations, which could have negative outcomes for us and harm our reputation and could affect the reporting of transactions completed before the announcement of a change.

[Table of Contents](#)

VIH identified a material weakness in its internal control over financial reporting prior to the VIH Business Combination. Although such material weakness was remediated as of the date of this Annual Report on Form 10-K, other material weaknesses or control deficiencies could occur that could adversely affect our ability to report our results of operations and financial condition accurately and in a timely manner.

Our management is responsible for establishing and maintaining adequate internal control over financial reporting designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with GAAP. Our management is likewise required, on a quarterly basis, to evaluate the effectiveness of our internal controls and to disclose any changes and material weaknesses identified through such evaluation in those internal controls. A material weakness is a deficiency, or a combination of deficiencies, in internal control over financial reporting, such that there is a reasonable possibility that a material misstatement of our annual or interim consolidated financial statements will not be prevented or detected on a timely basis.

As described in VIH's Annual Report on Form 10-K for the year ended December 31, 2020 (the "2020 Annual Report"), a material weakness in our internal control over financial reporting was identified related the accounting for complex financial instruments. As a result of this material weakness, VIH management concluded that VIH's internal control over financial reporting was not effective as of December 31, 2020. The material weakness resulted in a material misstatement of VIH's warrant liabilities, change in fair value of warrant liabilities, Class A Common Stock subject to possible redemption, additional paid-in capital, accumulated deficit, and earnings per share and related financial disclosures as of and for the period ended December 31, 2020 (the "Affected Period").

On October 15, 2021, VIH completed the VIH Business Combination with Bakkt, following which the Company appointed a new Chief Executive Officer, Chief Financial Officer and Chief Accounting Officer, among others. The Company, among other things, has established enhanced procedures whereby the post-VIH Business Combination management team provides enhanced access to accounting literature, research materials and documents, and has increased communication with the Company's third-party professionals regarding complex accounting applications. These enhancements remediated the material weakness reported by VIH in the 2020 Annual Report. The remediation of this material weakness may not prevent any future material weakness or significant deficiency in our internal control over financial reporting. If other material weaknesses or control deficiencies occur in the future, we may be unable to report our financial results accurately on a timely basis, which could cause our reported financial results to be materially misstated and result in the loss of investor confidence and cause the market price of our common stock to decline. Ineffective internal controls could also cause investors to lose confidence in our reported financial information, which could have a negative effect on the trading price of our stock.

We can give no assurance that any additional material weaknesses or restatements of financial results will not arise in the future due to a failure to implement and maintain adequate internal control over financial reporting or circumvention of these controls. In addition, even if we are successful in strengthening our controls and procedures, in the future those controls and procedures may not be adequate to prevent or identify irregularities or errors or to facilitate the fair presentation of our consolidated financial statements.

Risks Related to Our Securities

Our warrants are exercisable for Class A Common Stock. Any such exercise increases the number of shares outstanding and eligible for future resale in the public market and results in dilution to our stockholders.

As of December 31, 2022 December 31, 2023, our warrants to purchase an aggregate of 7,140,814 shares of Class A Common Stock are exercisable in accordance with the terms of the warrant agreement. In addition, we have outstanding warrants to purchase up to an aggregate of 48,898,110 additional shares Class A Common Stock at an exercise price \$1.02 per share and pre-funded warrants to purchase up to 11,218,570 additional shares of Class A Common Stock at an exercise price of \$0.0001 per share. To the extent such warrants are exercised, additional shares of Class A Common Stock will be issued, which will result in dilution to the holders of Class A Common Stock and increase the number of shares eligible for resale in the public market. Sales of substantial numbers of such shares in the public market or the fact that such warrants may be exercised could adversely affect the market price of Class A Common Stock.

The valuation of our warrants could increase the volatility in our net income (loss) in our consolidated statements of operations.

Table The change in fair value of Contents

our warrants is the result of changes in stock price and warrants outstanding at each reporting period. (Loss) gain from change in fair value of warrant liabilities represents the mark-to-market fair value adjustments to the outstanding warrants. Significant changes in our stock price or number of warrants outstanding may adversely affect our net income (loss) in our consolidated statements of operations.

We may issue additional shares of common stock or other equity securities without stockholder approval, which would dilute stockholders' ownership interest in us and may reduce the market price of our securities.

We may issue additional shares of our Class A Common Stock or other equity securities in the future in connection with, among other things, future acquisitions, repayment of outstanding indebtedness, the exercise of warrants issued pursuant to the Concurrent Offerings (as defined below), or grants under the 2021 Omnibus Incentive Plan, as amended (the "Equity Incentive Plan"), without stockholder approval in a number of circumstances. We may also issue, subject to obtaining stockholder approval, to ICE 8,772,016 shares of Class A Common Stock and warrants to purchase up to 8,772,016 shares of Class A Common Stock pursuant to a securities purchase agreement. The issuance of additional Class A Common Stock or other equity securities could have, among other things, one or more of the following effects:

- our existing stockholders' proportionate ownership interest will decrease;
- the amount of cash available per share, including for payment of dividends in the future, may decrease;
- the relative voting strength of each previously outstanding share of our common stock may be diminished; and
- the market price of our Class A Common Stock and/or Warrants may decline.

We may not receive any additional funds upon the exercise of the Pre-Funded Warrants or Warrants.

Each Pre-Funded Warrant and Warrant (each as defined below) may be exercised by way of a cashless exercise, meaning that the holder may not pay a cash purchase price upon exercise, but instead would receive upon such exercise the net number of shares of the Class A Common Stock as determined according to the formulas set forth in the Pre-Funded Warrant or Warrant. In addition, upon the occurrence of certain events, the Class 2 Warrants (as defined below) may be exercised by way of an alternative cashless exercise, allowing the holder to receive the product of (x) the aggregate number of shares subject to the alternative cashless exercise (up to the full number of shares that would be issuable upon exercise of the Class 2 Warrant in accordance with the terms of the Class 2 Warrant if such exercise were by means of a cash exercise rather than a cashless exercise) and (y) 0.5. Accordingly, we may not receive any additional funds upon the exercise of the Pre-Funded Warrants or Warrants.

If securities and industry analysts do not publish research or publish inaccurate or unfavorable research about our business, the prices and trading volumes of our securities could decline.

The trading market for our securities depends, in part, on the research and reports that securities and industry analysts publish about us and our business. If securities and industry analysts downgrade our securities or publish inaccurate or unfavorable research about our business, the market price of our securities would likely decline. If one or more of these analysts cease coverage of us or fail to publish reports on us regularly, demand for our stock could decrease, which might cause the market price and trading volume of our securities to decline.

Delaware law and our Certificate of Incorporation and By-Laws contain certain provisions, including anti-takeover provisions that limit the ability of stockholders to take certain actions and could delay or discourage takeover attempts that stockholders may consider favorable.

Our certificate of incorporation (the "Certificate of Incorporation") and our by-laws (the "By-Laws") contain provisions that could have the effect of rendering more difficult, delaying, or preventing an acquisition deemed undesirable by the Board and therefore depress the trading price of our securities. These provisions could also make it difficult for stockholders to take certain actions, including electing directors who are not nominated by the current members of the Board or taking other corporate actions, including effecting changes in management. Among other things, the Certificate of Incorporation and By-Laws include provisions regarding:

-69-

- a classified Board with three-year staggered terms, which could delay the ability of stockholders to change the membership of a majority of the Board;
- the ability of the Board to issue shares of Preferred Stock, including "blank check" preferred stock and to determine the price and other terms of those shares, including preferences and voting rights, without stockholder approval, which could be used to significantly dilute the ownership of a hostile acquirer;
- the limitation of the liability of, and the indemnification of, our directors and officers;
- the right of the Board to elect a director to fill a vacancy created by the expansion of the Board or the resignation, death or removal of a director, which prevents stockholders from being able to fill vacancies on the Board;
- the requirement that directors may only be removed from the Board for cause and upon the affirmative vote of the holders of at least 66 2/3% of the total voting power of then outstanding Class A Common Stock;
- a prohibition on stockholder action by written consent (except for actions by the holders of Class V Common Stock or as required for holders of future series of Preferred Stock), which forces stockholder action to be taken at an annual or special meeting of stockholders and could delay the ability of stockholders to force consideration of a stockholder proposal or to take action, including the removal of directors;

-55-

Table of Contents

- the requirement that a special meeting of stockholders may be called only by the Board, the Chairman of the Board or our Chief Executive Officer, which could delay the ability of stockholders to force consideration of a proposal or to take action, including the removal of directors;
- controlling the procedures for the conduct and scheduling of the Board and stockholder meetings;
- the requirement for the affirmative vote of holders of at least 66 2/3% of the total voting power of all of the then outstanding shares of the voting stock, voting together as a single class, to amend, alter, change or repeal certain provisions in the Certificate of Incorporation which could preclude stockholders from bringing matters before annual or special meetings of stockholders and delay changes in the Board and also may inhibit the ability of an acquirer to effect such amendments to facilitate an unsolicited takeover attempt;

- the ability of the Board to amend the By-Laws, which may allow the Board to take additional actions to prevent an unsolicited takeover and inhibit the ability of an acquirer to amend the By-Laws to facilitate an unsolicited takeover attempt; and
- advance notice procedures with which our stockholders must comply to nominate candidates to the Board or to propose matters to be acted upon at a stockholders' meeting, which could preclude stockholders from bringing matters before annual or special meetings of stockholders and delay changes in the Board and also may discourage or deter a potential acquirer from conducting a solicitation of proxies to elect the acquirer's own slate of directors or otherwise attempting to obtain control.

These provisions, alone or together, could delay or prevent hostile takeovers and changes in control or changes in the Board or management.

We cannot predict the impact our dual class structure may have on the stock price of our Class A Common Stock.

We cannot predict whether our dual class structure will result in a lower or more volatile market price of our Class A Common Stock or in adverse publicity or other adverse consequences. For example, certain index providers have announced restrictions on including companies with multiple-class share structures in certain of their indexes. Under these policies, our dual class capital structure may make us ineligible for inclusion in certain indices, and as a result, mutual funds, exchange-traded funds and other investment vehicles that attempt to passively track those indices will not be investing in our stock. It is unclear what effect, if any, these policies will have on the valuations of publicly traded companies excluded from such indices, but it is possible that they may depress valuations, as compared to similar companies that are included. As a result, the market price of shares of our Class A Common Stock could be adversely affected.

-70-

Our Certificate of Incorporation designates a state or federal court located within the State of Delaware as the exclusive forum for substantially all disputes between us and our stockholders, which could limit our stockholders' ability to choose the judicial forum for disputes with us or our directors, officers, or employees.

Our Certificate of Incorporation provides that, unless we consent in writing to the selection of an alternative forum, the Court of Chancery of the State of Delaware, or if such court does not have subject matter jurisdiction, any other court located in the State of Delaware with subject matter jurisdiction, will be the sole and exclusive forum for (a) any derivative action or proceeding brought on behalf of us, (b) any action asserting a claim of breach of a fiduciary duty owed by any current or former director, officer, other employee or stockholder of ours to us or our stockholders, (c) any action asserting a claim against us or our officers or directors arising pursuant to any provision of the DGCL or the Certificate of Incorporation or By-Laws or as to which the DGCL confers jurisdiction on the Court of Chancery of the State of Delaware, (d) any action to interpret, apply, enforce or determine the validity of the Certificate of Incorporation or the By-Laws or any provision thereof, (e) any action asserting a claim against us or any current or former director, officer, employee, stockholder or agent of ours governed by the internal affairs doctrine of the law of the State of Delaware or (f) any action asserting an "internal corporate claim" as defined in Section 115 of the DGCL.

Section 22 of the Securities Act of 1933 (the "Securities Act") creates concurrent jurisdiction for federal and state courts over all suits brought to enforce any duty or liability created by the Securities Act or the rules and regulations thereunder. Accordingly, both state and federal courts have jurisdiction to entertain such Securities Act claims. To prevent having to litigate claims in multiple jurisdictions and the threat of inconsistent or contrary rulings by different courts, among other considerations, the Certificate of Incorporation provides that, unless we consent in writing to the selection of an alternative forum, to the fullest extent permitted by law, the federal district courts of the United States of America shall be the exclusive forum for the resolution of any complaint asserting a cause of action arising under the Securities Act; however, there is uncertainty as to whether a court would enforce such provision, and investors cannot waive compliance with federal securities laws and the rules and regulations thereunder. Notwithstanding the foregoing, the Certificate of Incorporation provides that the exclusive forum provision will not apply to suits brought to enforce any cause of action arising under the Securities Act, any duty or liability created by the Exchange Act or any other claim for which the federal courts have exclusive jurisdiction. Section 27 of the Exchange Act creates exclusive federal jurisdiction over all suits brought to enforce any duty or liability created by the Exchange Act or the rules and regulations thereunder.

-56-

Table of Contents

Any person or entity purchasing or otherwise acquiring any interest in any of our securities will be deemed to have notice of and consented to this provision. These exclusive-forum provisions may limit a stockholder's ability to bring a claim in a judicial forum of its choosing for disputes with us or our directors, officers, or other employees, which may discourage lawsuits against us and our directors, officers and other employees. If a court were to find these exclusive-forum provisions to be inapplicable or unenforceable in an action, we may incur additional costs associated with resolving the dispute in other jurisdictions, which could harm our results of operations.

Our Certificate of Incorporation does not limit the ability of ICE to compete with us.

ICE and its affiliates engage in a broad spectrum of activities, including investments in the financial services and technology industries. In the ordinary course of its business activities, ICE and its respective affiliates may engage in activities where their interests conflict with our interests, or those of our other stockholders. The Certificate of Incorporation provides that ICE and its affiliates (including any non-employee directors of ours appointed by ICE) have no duty to refrain from (1) engaging in and possessing interests in other business ventures of every type and description, including those engaged in the same or similar business activities or lines of business in which we now engage or propose to engage or (2) otherwise competing with us, on their own account, in partnership with, or as an employee, officer, director or shareholder of any other individual, corporation, general or limited partnership, limited liability company, joint venture, trust, association or any other entity. ICE also may pursue, in its capacity other than as directors of the Board, acquisition opportunities that may be complementary to our business and, as a result, those acquisition opportunities may not be available to us. In addition, ICE may have an interest in pursuing acquisitions, divestitures and other transactions that, in its judgment, could enhance its investment, even though such transactions might involve risks to our other

stockholders. ICE will not be liable to us, our stockholders any of our affiliates for breach of any fiduciary duty solely by reason of the fact that they engage or have engaged in any such activities.

Certain significant stockholders and members of management whose interests may differ from those of other stockholders have the ability to significantly influence our business and management.

Pursuant to the Stockholders Agreement that we entered into with the Sponsor and the Opco Equity Holders, the Sponsor and the Opco Equity Holders agreed to designate one director nominated by the Sponsor, one director nominated by Opco, and up to seven directors jointly nominated by the Sponsor and Opco. Accordingly, the parties to the Stockholders Agreement will be able to designate all of the members of the Board. Such stockholders will retain such influence with respect to our management, business plans and policies, including the appointment and removal of our officers. In particular, the parties to the Stockholders Agreement could influence whether acquisitions, dispositions and other change of control transactions are approved.

ICE may exert significant influence over us and its interests may conflict with yours or those of other stockholders in the future.

Each share of Class A Common Stock and Class V Common Stock entitles its holder to one vote on all matters presented to stockholders generally. Accordingly, ICE is able to exert significant influence over the election and removal of our directors and thereby significantly influence corporate and management policies, including potential mergers or acquisitions, payment of dividends, asset sales, amendment of our Certificate of Incorporation and By-Laws and other significant corporate transactions for so long as it retains significant ownership. This concentration of ownership may delay or deter possible changes in control, which may reduce the value of an investment in our securities. So long as ICE continues to own a significant amount of the combined voting power, even if such amount is less than 50%, ICE will continue to be able to strongly influence our decisions. While the Voting Agreement (as defined below) limits ICE to vote only an aggregate of 30% of its voting power, such amount may result in substantial influence in voting matters. The Voting Agreement provides that this limitation on ICE's voting power will terminate at such time as its ownership is less than a majority of the outstanding voting power, at which time ICE will be entitled to vote all of its voting shares, which may result in an increase in its potential influence.

The price of our securities may be volatile.

Table of Contents

The trading market for our securities has in the past been and could in the future be impacted by market volatility. The price of our securities may fluctuate due to a variety of factors, including:

- changes in the industries in which we operate, including, in particular, the crypto industry;
- changes in laws and regulations affecting our business;
- developments involving our competitors or other companies in our industries;
- variations in our operating performance and the performance of our competitors in general;
- actual or anticipated fluctuations in our quarterly or annual operating results;
- publication of research reports by securities analysts about us or our competitors or our industry;
- the public's reaction to our press releases, our other public announcements and our filings with the SEC;
- actions by stockholders;
- the exercise of warrants to purchase our securities;
- additions and departures of key personnel;
- commencement of, or involvement in, litigation involving the combined companies;
- changes in our capital structure, such as future issuances of securities or the incurrence of debt;
- the volume of our Class A Common Stock available for public sale; and
- general economic and political conditions, such as recessions, inflation, volatility in the markets, increases in interest rates, local and national elections, fuel prices, international currency fluctuations, corruption, political instability, pandemics or other public health emergencies and acts of war or terrorism, such as the war in the Middle East and ongoing geopolitical tensions related to Russia's actions in Ukraine, resulting sanctions imposed by the U.S. and other countries, and retaliatory actions taken by Russia in response to such sanctions.

These market and industry factors may materially reduce the market price of our securities regardless of our operating performance.

Because there are no current plans to pay cash dividends on the Class A Common Stock for the foreseeable future, you may not receive any return on investment unless you sell your Class A Common Stock at a price greater than what you paid for it.

We intend to retain future earnings, if any, for future operations, expansion and debt repayment and there are no current plans to pay any cash dividends for the foreseeable future. The declaration, amount and payment of any future dividends on shares of Class A Common Stock will be at the sole discretion of the Board. The Board may take into account general and economic conditions, our financial condition and results of operations, our available cash and current and anticipated cash needs, capital requirements, contractual, legal, tax and regulatory restrictions, implications of the payment of dividends by us to our stockholders or by our subsidiaries to us and such other factors as the Board may deem relevant. As a result, you may not receive any return on an investment in Class A Common Stock unless you sell your Class A Common Stock for a price greater than that which you paid for it.

The NYSE may delist our securities from trading on its exchange, which could limit investors' ability to make transactions in our securities and subject us to additional trading restrictions.

Our securities are currently may be delisted from the New York Stock Exchange if we cannot regain compliance with the NYSE's continued listing requirements.

On March 13, 2024, we were notified by the NYSE that we were not in compliance with Section 802.01C of the NYSE Listed Company Manual (the "Listing Rule") because the average closing stock price of a share of our Class A Common Stock was less than \$1.00 per share over a consecutive 30 trading-day period. Pursuant to the Listing Rule, we have six months following the NYSE notification to regain compliance with the Listing Rule, during which time the Company's Class A Common Stock will continue to be listed on the NYSE. However, we cannot assure you There can be no assurances that we will be able to meet regain compliance with the NYSE's Listing Rule or any other NYSE continued listing requirements for during such period, or at all.

If we do not regain compliance with the Listing Rule within six months of receipt of the NYSE notification, our common stock or our warrants in the future.

securities may be delisted. If the NYSE delists our securities from trading on its exchange and we are not able to list its securities on another national securities exchange, we expect our securities could be quoted on an over-the-counter market. If this were to occur, we could face significant material adverse consequences, including:

- a limited availability of market quotations for our securities;

-58-

Table of Contents

- reduced liquidity for our securities;
- determination that our Class A Common Stock is a "penny stock," which will require brokers trading in the common stock to adhere to more stringent rules and possibly result in a reduced level of trading activity in the secondary trading market for our securities;
- the incurrence of additional costs under state blue sky laws in connection with any sales of our securities;
- a limited amount of news and analyst coverage; and
- a decreased ability to issue additional securities or obtain additional financing in the future.

Item 1B. Unresolved Staff Comments

None.

Item 1C. Cybersecurity

Cybersecurity Risk Management and Strategy

We recognize the importance of assessing, identifying, and managing material risks associated with cybersecurity threats, as such term is defined in Item 106(a) of Regulation S-K. These risks include, among other things, operational risks; intellectual property loss or theft; fraud; extortion; harm to employees or customers; potential litigation, regulatory investigations or other proceedings, and other legal risks; and reputational risks. We have implemented cybersecurity processes, technologies, and controls to aid in our efforts to assess, identify, and manage such material risks.

-73-

To identify and assess material risks from cybersecurity threats, our Enterprise Risk Management program considers cybersecurity risks alongside other company risks as part of our overall risk assessment process. We perform specific cybersecurity risk assessments at least annually to identify and assess material cybersecurity threat risks, their severity, and potential mitigations. We employ a range of tools and services, including regular network and endpoint monitoring, vulnerability assessments, penetration testing, and tabletop exercises to further identify risks.

To provide for the availability of critical data and systems, address regulatory compliance requirements, manage our material risks from cybersecurity threats, and to protect against, detect, and respond to cybersecurity incidents, we undertake these activities:

- undertake an annual review of our policies and statements related to cybersecurity;
- conduct cybersecurity awareness training for all employees annually;
- conduct privileged access and incident training for employees involved in our systems and processes that handle sensitive data;
- conduct regular phishing email simulations for all employees and all contractors with access to corporate email systems to enhance awareness and responsiveness to such possible threats;
- through policy, practice and contract (as applicable), require employees, as well as applicable third parties who provide services on our behalf, to treat customer information and data with care;
- conduct tabletop exercises to simulate a response to a cybersecurity incident and use the findings to improve our processes and technologies;
- leverage the National Institute of Standards and Technology incident handling framework as the foundation of our incident response plan to help us identify, protect, detect, respond, and recover when there is an actual or potential cybersecurity incident; and
- carry information security risk insurance that provides protection against the certain potential losses arising from a cybersecurity incident.

Our incident response plan coordinates the activities we take in our efforts to prepare for, detect, respond to and recover from cybersecurity incidents, which include processes designed to triage, assess severity, escalate, contain, investigate, and remediate the incident, as well as to comply with potentially applicable legal obligations and mitigate brand and reputational damage. We regularly engage with independent third parties to review our cybersecurity program and assess the effectiveness of our controls. These third parties include our Internal Audit department as well as external reputable and well-known firms, all of which review various aspects of our cybersecurity program, processes, and controls throughout the year.

We also maintain processes to address cybersecurity threat risks associated with our use of third-party service providers, including those who have access to our systems or data or facilities that house such systems and data. Cybersecurity considerations affect the selection and oversight of these third-party service providers. We perform diligence on these third parties and monitor cybersecurity threat risks identified through such diligence. Additionally, we generally require those third parties that we believe could introduce significant cybersecurity risk to us to agree by contract to manage their cybersecurity risks in specified ways, and be subject to certain obligations related to their cybersecurity practices.

Like other technology companies, we have faced cybersecurity incidents in the past. As of the date of this Annual Report on Form 10-K, however, we have not assessed any risks from prior cybersecurity incidents as having materially affected or being reasonably likely to materially affect us. We face risks from cybersecurity threats, including those associated with cyberattacks and security breaches and incidents, in the future. For additional information regarding whether and how risks from identified cybersecurity threats, including as a result of any previous cybersecurity incidents, have materially affected or are reasonably likely to materially affect us, including our business strategy, results of

-74-

operations, or financial condition in "Item 1A. Risk Factors" and "Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations" of this Annual Report on Form 10-K, which disclosures are incorporated by reference herein.

Cybersecurity Governance

Cybersecurity is an important part of our risk management processes and an area of focus for our Board and management. Our Board's Audit and Risk Committee is responsible for the oversight of risks from cybersecurity threats. At least quarterly, the entire Board receives an overview from management of our cybersecurity program and strategy processes covering topics such as data security posture, results from third-party assessments, progress towards pre-determined risk-mitigation-related goals, our incident response plan, and certain cybersecurity threat risks or incidents and developments, as well as the steps management has taken to respond to such risks. The Board discusses such matters with our Chief Risk Officer (CRO) and Chief Information Security Officer (CISO). Members of the Board are also encouraged to regularly engage in ad hoc conversations with management on cybersecurity-related news events and discuss any updates to our cybersecurity risk management and strategy programs.

Our enterprise risk management and strategy processes are led by our CRO. Cybersecurity program management and strategy processes are led by our CISO. Such individuals have collectively over 40 years of prior work experience in various roles involving managing enterprise risk and information security, developing cybersecurity strategy, and implementing effective information and cybersecurity programs, as well as several relevant degrees and certifications, including Certified Information Security Manager, Certified Information Systems Auditor, and Certified Information Systems Security Professional. The CRO and CISO provide regular updates to the executive management team. The executive management team monitors the prevention, mitigation, detection, and remediation of cybersecurity incidents through their participation in the cybersecurity risk management and strategy processes described above, including the operation of our incident response plan. As discussed above, the CRO and CISO report to the entire Board about cybersecurity threat risks, among other cybersecurity related matters, at least quarterly.

Item 2. Properties

Facilities

We lease facilities under operating leases in Alpharetta, Georgia, one for our corporate headquarters one for approximately 50,000 square feet with an expiration date in October 2032, and another for approximately 44,000 square feet a call center with an expiration date in April 2026, in Scottsdale, Arizona, our principal principal customer service center for approximately 21,000 square feet with an expiration date in April 2023, September 2030, and in New York, New York, our satellite corporate office for approximately 10,000 square feet with an expiration date in 2030. In March 2023, we signed an amendment to our Scottsdale, Arizona lease that extended the lease term through September 2030. Additionally, ICE provides us with approximately 800 square feet in its facilities in Sandy Springs, Georgia pursuant to the Transition Services Agreement.

Item 3. Legal Proceedings

From time to time we are subject to legal proceedings and claims arising in the ordinary course of business. Based on our current knowledge, we believe that the amount or range of reasonably possible losses will not, either individually or in the aggregate, have a material adverse effect on our business, results of operations, or financial condition.

Prior to its acquisition by the Company, Bakkt Crypto received requests from the SEC for documents and information about certain aspects of its business, including the operation of its trading platform, processes for listing assets, the classification of certain listed assets, and relationships with customers and service providers, among other topics. The SEC has since made a number of follow-up requests for additional documents and information, and the Company has continued to respond to those requests on a timely basis. Based on the ongoing nature of this matter, the outcome remains uncertain and the Company cannot estimate the potential impact, if any, on its business or financial statements at this time.

The results of any litigation cannot be predicted with certainty, and an unfavorable resolution in any legal proceedings could materially affect our future business, results of operations, or financial condition. Regardless of the outcome, litigation can have an adverse impact on us because of defense and settlement costs, diversion of management

-75-

resources, and other factors.

For additional information on our ongoing legal proceedings, refer to Note 14 in our audited consolidated financial statements included elsewhere in this Annual Report on Form 10-K.

Item 4. Mine Safety Disclosure

Not applicable.

-59- -76-

Table of Contents

PART II

Item 5. Market For Registrant's Common Equity, Related Stockholder Matters, And Issuer Purchases Of Equity Securities

Market Information and Holders

Our Class A Common Stock and Public Warrants trade on NYSE under the trading symbols "BKKT" and "BKKT WS," respectively.

As of March 20, 2023 March 18, 2024, we had 82,287,949 141,798,069 shares of Class A Common Stock issued and outstanding held of record by 25 171 holders, 183,279,887 179,883,479 shares of Class V Common Stock issued and outstanding held of record by 53 holders, and 7,140,808 Public Warrants issued and outstanding, each exercisable for one share of Class A Common Stock, held of record by one 1 holder. There is no public market for our Class V Common Stock.

Dividend Policy

We have never declared or paid any cash dividends on our capital stock, and we do not currently intend to pay any cash dividends on our capital stock in the foreseeable future. We currently intend to retain all available funds and any future earnings to support operations and to finance the growth and development of our business. Any future determination to pay dividends will be made at the discretion of the Board subject to applicable laws and will depend upon, among other factors, our operating results, financial condition, contractual restrictions and capital requirements. Our future ability to pay cash dividends on our capital stock may be limited by any future debt instruments or preferred securities.

Recent Sales of Unregistered Securities

None.

Purchases of Equity Securities by the Issuer and Affiliated Purchasers

None.

Unregistered Sales of Equity Securities

None.

Item 7. Management's Discussion And Analysis Of Financial Condition And Results Of Operations

The following discussion and analysis of financial condition and results of operations should be read together with our audited consolidated financial statements and the related notes included under Item 8 of this Annual Report on Form 10-K (the "audited consolidated financial statements"). References in this section to "we," "us," "our," "Bakkt" or the "Company" and like terms refer to (i) Bakkt Opco Holdings, LLC and its subsidiaries (the "Predecessor") for the period from January 1, 2021 through October 14, 2021 (the "Predecessor Period") and (ii) Bakkt Holdings, Inc. and its subsidiaries (the "Successor") for the period from October 15, 2021 through December 31, 2021 years ended December 31, 2023 and for the year ended December 31, 2022 (each referred to herein as a "Successor Period"), unless the context otherwise requires. Some of the information contained in this discussion and analysis or set forth elsewhere in this Annual Report on Form 10-K, including information with respect to our plans and strategy for our business, includes forward-looking statements. Such forward-looking statements are based on the beliefs of our management, as well as assumptions made by, and information currently available to, our management. Actual results could differ materially from those contemplated by the forward-looking statements as a result of certain statements. Factors that could cause or contribute to such differences include, but are not limited to, those factors detailed elsewhere discussed above in this Annual Report on Form 10-K. "Cautionary Note Regarding Forward-Looking Statements" and "Item 1A. Risk Factors."

Overview

Founded in 2018, Bakkt builds technology that connects the digital economy by offering one ecosystem for crypto and loyalty points. We enable our clients to deliver new opportunities to their customers through software as a service ("SaaS") and API solutions that unlock crypto and drive loyalty, powering engagement and performance. The global

-60-

Table of Contents

market for crypto, while nascent, is rapidly evolving and expanding. We believe we are well-positioned to provide

-77-

innovative, multi-faceted product solutions and grow with this evolving market. Our platform is uniquely positioned to power commerce by enabling consumers, brands, and financial institutions to better manage, transact with and monetize crypto in exciting new ways.

Our platform is built to operate across various cryptoassets crypto assets and offers clients the flexibility to choose some or all of our capabilities, and the manner in which these capabilities are enabled for consumers, based on their needs and objectives. Some clients may choose to enable our capabilities directly in their experience, while others may want a "ready-to-go" storefront and leverage capabilities such as our web-based technology. Our institutional-grade platform, born out of our former parent company, Intercontinental Exchange, Inc. ("ICE"), supports "know your customer" ("KYC"), anti-money laundering ("AML"), and other anti-fraud measures to combat financial crime.

Recent Developments

On February 8, 2023, we acquired 100% Crypto Market Developments

Over approximately the last eighteen months, the crypto markets were impacted by, among other developments, significant decreases and volatility in crypto asset prices, a loss of confidence in many participants in the crypto asset ecosystem, regulatory actions and adverse publicity around specific companies, the crypto industry and crypto assets more broadly, including as a result of continued industry-wide consequences from the Chapter 11 bankruptcy filings of crypto asset exchange FTX, crypto hedge fund Three Arrows, crypto miners Compute North and Core Scientific, and crypto lenders Celsius Network, Voyager Digital and BlockFi. In addition, the liquidity of the units crypto asset markets has been adversely impacted by these bankruptcy filings as, among other things, certain entities affiliated with FTX and other former participants had engaged in significant trading activity. Although we did not have any exposure to these companies, and we do not have material assets that may not be recovered or may otherwise be lost or misappropriated due to the bankruptcies, we were nonetheless impacted by, and continue to be impacted by, the broader conditions in the crypto markets.

The crypto markets also have been and continue to be impacted by the broader macroeconomic conditions, including the strength of Bumped, a broker-dealer registered with the overall macroeconomic environment, high and rising interest rates, spikes in inflation rates, general market volatility, and geopolitical concerns. We expect the macroeconomic environment and the state of the crypto markets to remain dynamic in the near-term.

In addition, crypto assets and crypto market participants have recently faced increased scrutiny by regulators. For example, in 2023, the SEC has brought charges against a number of crypto asset exchanges, including Bittrex, Coinbase, Binance, Kraken, and FINRA, for cash consideration other crypto asset service providers, identifying a number of \$575,000. This acquisition required Bumped to file a CMA crypto assets as securities and alleging violations of, and non-compliance with, FINRA, and FINRA is currently reviewing the CMA to ensure that Bumped will U.S. federal securities laws. We continue to meet its monitor regulatory obligations if developments in this area and assess our business model and the filing is approved. After FINRA's assessment, the CMA will be approved, denied or approved with restrictions. assets we support in light of such developments. For more information see "—Regulation—Regulation of Our Virtual Currency Business," below.

February 2024 Concurrent Registered Direct Offerings

On November 2, 2022 February 29, 2024, we entered into a definitive securities purchase agreement (the "Third-Party Purchase Agreement") with Apex Fintech Solutions, Inc. certain institutional investors (the "Third-Party Purchasers"). The consummation of the transactions contemplated by the Third-Party Purchase Agreement (the "Third-Party Closing") occurred on March 4, 2024. At the Third-Party Closing, pursuant to the Third-Party Purchase Agreement, we issued and sold to the Third-Party Purchasers an aggregate of 34,917,532 shares of our Class A Common Stock, Class 1 Warrants ("AFS" Class 1 Warrants") to purchase an aggregate of 23,068,051 shares of Class A Common Stock, Class 2 Warrants ("Class 2 Warrants") to purchase an aggregate of 23,068,051 shares of Class A Common Stock and Pre-Funded Warrants ("Pre-Funded Warrants") to purchase an aggregate of 11,218,570 shares of Class A Common Stock. As of the date of this report, holders have exercised all of the Pre-Funded Warrants. The offering of such securities was conducted in a registered direct offering (the "Third-Party Offering"). The purchase price of each share of Class A Common Stock and accompanying Class 1 Warrant or Class 2 Warrant (each, a "Warrant") was \$0.8670 and the purchase price of each Pre-Funded Warrant and accompanying Warrant was \$0.8669.

-78-

In a concurrent registered direct offering (the "ICE Offering" and, together with the Third-Party Offering, the "Concurrent Offerings"), we entered into a securities purchase agreement (the "ICE Purchase Agreement" and, together with the Third-Party Purchase Agreement, the "Purchase Agreements") with ICE, pursuant to which we agreed to acquire all sell to ICE up to 11,534,024 shares of Class A Common Stock, Class 1 Warrants to purchase up to 5,767,012 shares of Class A Common Stock, and Class 2 Warrants to purchase up to 5,767,012 shares of Class A Common Stock. The purchase price of each share of Class A Common Stock and accompanying Warrant in the ICE Offering is \$0.8670.

In the ICE Offering, we closed the sale and issuance to ICE of 2,762,009 shares of Class A Common Stock, Class 1 Warrants to purchase up to 1,381,004 shares of Class A Common Stock and Class 2 Warrants to purchase up to 1,381,004 shares of Class A Common Stock, concurrently with the Third-Party Closing (the "Initial ICE Closing"). The closing of the membership issuance and sale of the remaining 8,772,016 shares of Class A Common Stock, Class 1 Warrants to purchase up to 4,386,008 shares of Class A Common Stock and Class 2 Warrants to purchase up to 4,386,008 shares of Class A Common Stock in the ICE Offering is conditioned on us obtaining stockholder approval for such issuances under the rules and regulations of the NYSE and other customary closing conditions.

See "Liquidity and Capital Resources" below for management's assertions on the impact of the Concurrent Offerings on our going concern considerations.

Apex Crypto Acquisition

On April 1, 2023, we completed the acquisition of 100% of the ownership interests of Apex Crypto LLC ("Apex"), a financial technology company with an integrated crypto trading platform, for consideration consisting of an initial purchase price of \$55.0 million in cash, up to \$45.0 million shares of Class A common stock that may be earned if Apex achieves certain profitability growth targets for Crypto" and subsequently changed the fourth quarter of 2022, and up to an additional \$100.0 million in shares of our Class A common stock depending on Apex's achievement of certain financial targets through 2025. Apex's profitability in the fourth quarter of 2022 results in Class A common stock consideration of \$9.0 million based on the earn-out target mechanics. The transaction, which is subject to regulatory approvals, is expected to close in the first half of 2023. Under the terms name of the transaction, legal entity to Bakkt and AFS will, among other things, enter into a commercial agreement that memorializes the continued relationship and provision of Crypto Solutions, LLC ("Bakkt crypto solutions for AFS's clients. This acquisition is expected to provide immediate scale and meaningful transaction volume from Apex's active client base. Crypto"). We expect to leverage Apex's are leveraging Bakkt Crypto's proprietary trading platform and existing relationships with liquidity providers to provide a wider range of assets and competitive pricing to our clients. Our acquisition of Bakkt Crypto complements our B2B2C growth strategy by broadening our business partnerships to fintechs and neobanks. Specifically, Bakkt Crypto offers customers the ability to purchase, sell, store and, in approved jurisdictions, deposit and withdraw approved crypto assets, all from within the applications of its clients with whom customers already have a relationship. Using Bakkt Crypto's platform, customers can purchase approved crypto assets, store crypto assets in custodial wallets, liquidate their holdings, and transfer supported crypto assets between a custodial wallet maintained by Bakkt Crypto and external wallets in certain jurisdictions, if enabled by the client.

In addition, Bakkt Crypto is in the process of developing, subject to applicable regulatory approvals, functionalities enabling transfers of supported crypto assets between registered customers, and conversion of certain loyalty and rewards points into supported crypto assets. Bakkt Crypto is also in the process of enhancing capabilities on its trading platform, including support for larger orders and recurring buys, and extending the platform to support institutional execution.

As part of our ongoing review of potential services, we continually evaluate how we can most effectively improve our platform and service offerings in a manner that is compliance with applicable governance and regulatory considerations. In such review, we may determine to stop pursuing a potential service offering in light of, among other things, revenue expectations and compliance with applicable laws. For example, following discussion with our clients we have elected to suspend the development of our Bakkt Payouts product indefinitely. Furthermore, on November 2, 2022, we considered developing the capability for registered customers to transfer crypto assets to and from other registered customers within our platform but have indefinitely postponed further development and rollout of such functionality. In addition, we evaluated opportunities to offer staking, as well as opportunities to offer non-fungible tokens, and have postponed further development and rollout for both such functionalities indefinitely.

At the time our acquisition of Bakkt and certain parties related to the seller entered into a Stockholders' Agreement, Crypto closed, Bakkt Crypto had agreements with more than 30 fintech clients pursuant to which the clients made Bakkt Crypto's crypto asset trading service available to their customer base. Our acquisition of Bakkt Crypto resulted in us

obtaining access to such **counterparties** partners. The majority of these fintech clients are also part of Apex Fintech Solutions' client network.

-79-

The agreements with these fintech clients provide for licensing of their front-end trading platforms by Bakkt Crypto and cooperation between the parties in facilitating consumers' transactions in crypto assets. The agreements are for a term of either one or two years and can be terminated by either party for breach or in case of a change of control. In most cases, the agreements also contain provisions giving Bakkt Crypto discretion in the choice of crypto assets offered to each client through its platform, and, in some cases, exclusivity covenants pursuant to which clients have agreed **not** to refer their customers to other crypto asset trading platforms.

Following the closing of the acquisition of Bakkt Crypto and in light of recent regulatory developments, we reviewed all crypto assets then available on the Bakkt Crypto platform and determined it was appropriate to delist certain **lock-up, standstill**, of such crypto assets. In effecting such delisting decisions, we attempted to mitigate impacts on our business and **short sale restrictions**, customers by affording customers a period in which to exit their positions in the impacted crypto assets as part of an orderly wind-down. The delisting process was completed on September 21, 2023 and we recognized transactional revenue associated with delisted crypto assets of approximately \$27.6 million on that date.

Bumped Acquisition

On February 8, 2023, we acquired 100% of the units of Bumped Financial, LLC, which we subsequently renamed Bakkt Brokerage, LLC ("Bakkt Brokerage"), a broker-dealer registered with the SEC and the Financial Industry Regulatory Authority, Inc., for cash consideration of \$0.6 million. Bakkt Brokerage is not engaged in any business activities at this time and we have no current plans for it to engage in future business activities.

Key Factors Affecting Our Performance

Growing Our Client Base

Our ability to increase our revenue stream depends on our ability to grow clients on our platform. We collaborate with leading brands and have built an extensive network across numerous industries including financial institutions, merchants and travel and entertainment. To date, management has been focused on building through clients within a business-to-business-to-consumer ("B2B2C") model. Our goal is to provide these clients opportunities to leverage our capabilities either through their existing environment or by leveraging our platform. Our acquisition of **Apex Bakkt Crypto** complements our B2B2C growth strategy by broadening our business partnerships to fintechs and **neo-banks**. Our ability to grow our

-61-

neobanks. [Table of Contents](#) See "Apex Crypto Acquisition" above.

client and revenue base through the Apex acquisition is dependent on successful integration of the businesses post-transaction close.

Product Expansion and Innovation

The crypto marketplace is rapidly evolving. **We believe** our ability to continue innovating our platform will increase the attractiveness of our platform to clients. Our ability to meet the capability demands of our clients will allow us to continue to grow revenue.

Competition

The crypto marketplace is highly competitive with numerous participants competing for the same clients. We believe we are **uniquely well** positioned with our ability to provide capabilities around emerging **cryptoassets** **crypto assets** alongside loyalty points on a single, highly secure, institutional-grade technology platform.

General Economic and Market Conditions

Our performance is impacted by the strength of the overall macroeconomic environment and crypto market conditions, which are beyond our control. Negative market conditions **may** hinder client activity, including extended decision timelines around implementing crypto strategies. **In 2022, the crypto markets were impacted by, among other things, significant volatility in cryptoasset** See "Crypto Market Developments" above. **prices, bankruptcies of several cryptocurrency exchanges, regulatory actions and adverse publicity.** Although we did not have any exposure to the companies that halted activities in 2022, we were nonetheless impacted by the broader conditions in the crypto markets. **In addition, during 2022, macroeconomic conditions—including rising interest rates, spikes in inflation rates and market volatility, along with geopolitical concerns, including the war in Ukraine and the sanctions and other measures that have been and continue to be imposed in response to the war—created uncertainty and volatility in the global economy.** We expect the macroeconomic environment and the state of the crypto markets to remain dynamic in the near-term, and we will continue to monitor macroeconomic and crypto market conditions, and the potential impacts that any of the foregoing may have on our business.

-80-

Regulations in U.S. US & International Markets

We are subject to many complex, uncertain and overlapping local, state and federal laws, rules, regulations, policies and legal interpretations (collectively, "laws and regulations") in the markets in which we operate. These laws and regulations govern, among other things, consumer protection, privacy and data protection, labor and employment, anti-money laundering, money transmission, competition, and marketing and communications practices. These laws and regulations will likely have evolving interpretations and applications, particularly as we introduce new products and services and expand into new jurisdictions.

We are seeking to bring trust and transparency to crypto. We are and will progressively continue to be subject to laws and regulations relating to the collection, use, retention, security, and transfer of information, including the personally identifiable information of our clients and all of the users in the information chain. We have developed and frequently evaluate and update our compliance models to ensure that we are complying with applicable restrictions.

We continue to work with regulators to address the emerging global landscape for crypto. As investment continues, the intersection of technology and finance will require ongoing engagement as new applications emerge. **Cryptoasset** **crypto asset** and distributed ledger technology have significant, positive potential with proper collaboration between industry and regulators. For more information around regulations, please see "*Item 1. Business*".

COVID-19 Impacts

In March 2020, the World Health Organization declared the COVID-19 outbreak a global pandemic. The COVID-19 pandemic has adversely affected global economic activity and, in 2020, contributed to significant declines and

62

Table of Contents

volatility in financial markets. For the year ended December 31, 2022, our business operations have continued to recover from the impacts of the pandemic, and revenue from the travel loyalty transactions has also continued to recover.

VIH Business Combination

On October 15, 2021, Bakkt (f/k/a VPC Impact Acquisition Holdings, a Cayman Islands exempted company ("VIH")) and VIH completed the VIH Business Combination contemplated by the Merger Agreement. Pursuant to the Merger Agreement, VIH acquired a majority voting interest in Bakkt Opco Holdings, LLC ("Opco") through a series of mergers, with Opco becoming a direct subsidiary of VIH. In connection with the completion of the VIH Business Combination, VIH changed its jurisdiction of incorporation from the Cayman Islands to the State of Delaware and changed its name to "Bakkt Holdings, Inc."

The VIH Business Combination resulted in Bakkt continuing as the surviving entity and being organized as an umbrella partnership corporation, or "up-C," structure in which substantially all our assets and business are held by Opco and its subsidiaries, with the existing owners of Opco being considered as noncontrolling interests in the audited consolidated financial statements.

Upon completion of the VIH Business Combination, VIH was deemed the accounting acquirer and Opco the accounting acquiree. Under the acquisition method of accounting, VIH's assets and liabilities retained their carrying values and the assets and liabilities associated with Opco were recorded at their fair values measured as of the acquisition date. The excess of the purchase price over the estimated fair values of the net assets acquired was recorded as goodwill. In connection with the VIH Business Combination, all outstanding membership interests and rights to acquire membership interests in Opco were exchanged for an aggregate of 208,200,000 Opco Common Units and an equal number of newly issued shares of our Class V common stock, par value \$0.0001 per share ("Class V common stock"), which are non-economic, voting shares of the Company, of which 207,406,648 were outstanding and 793,352 reserved for issuance upon the exercise of a warrant agreement. Each Opco Common Unit, when coupled with one share of our Class V common stock is referred to as a "Paired Interest." Paired Interests may be exchanged for one share of our Class A common stock or a cash amount in accordance with the Third Amended and Restated Limited Liability Company Agreement of Opco, and the Exchange Agreement between the Company and certain holders of Bakkt Common Units, dated as of October 15, 2021. Following the Closing, the Company owned approximately 20.3% of the Opco Common Units, with the remaining Opco Common Units being owned by the equity owners of Opco prior to the Merger.

As a result of the VIH Business Combination, our financial results are broken out between the Predecessor period (January 1, 2021 through October 14, 2021) and the Successor periods (October 15, 2021 through December 31, 2021 and January 1, 2022 through December 31, 2022).

Safeguarding Obligation Liability and Safeguarding Asset Related to Crypto Held for Other Parties

As detailed in Note 18 to our audited consolidated financial statements included in this Annual Report on Form 10-K, upon the adoption of Staff Accounting Bulletin 121 ("SAB 121"), we recorded a safeguarding obligation liability and a corresponding safeguarding asset related to the crypto held for other parties. As of December 31, 2022 December 31, 2023, the safeguarding obligation liability related to crypto held for other parties was \$15.8 million \$701.6 million. We have taken steps to mitigate the potential risk of loss for the crypto we hold for other parties, including holding insurance coverage specifically for certain **Cryptoasset** **crypto** incidents and using secure cold storage to store the vast majority of crypto that we hold. SAB 121 also asks us to consider the legal ownership of the crypto held for other parties, including whether the crypto held for other parties would be available to satisfy general creditor claims in the event of our bankruptcy.

The legal rights with respect to crypto held on behalf of third parties by a custodian, such as us, upon the custodian's bankruptcy have not yet been settled by courts and are highly fact-dependent. However, based on the terms of our terms of service and applicable law, in the event that we were to enter bankruptcy, we believe the crypto that we hold in custody for users of our platform should be respected as users' property (and should not be available to satisfy the claims of our general creditors). We do not allow users to purchase crypto on margin, and crypto held on our platform does not serve as collateral for margin loans. We hold crypto in custody for users in one or more omnibus **cryptoasset wallets**; we do

-63-

Table of Contents

not presently utilize third-party custodians, **crypto wallets**. We hold cryptographic key information and maintain internal record keeping for the crypto we hold in custody for users, and we are obligated to secure such assets from loss or theft. Our contractual arrangements state that our customers and clients retain legal ownership of the crypto custodied by us on their behalf; they also benefit from the rewards and bear the risks associated with their ownership, including as a result of any price fluctuations. We have been monitoring and will continue to actively monitor legal and regulatory developments and may consider further steps, as appropriate, to support this contractual position so that in the event of our bankruptcy, the crypto custodied by us should not be deemed to be part of our bankruptcy estate. We do not expect potential future cash flows associated with the **cryptoasset crypto** safeguarding obligation liability.

-81-

Key Performance Indicators

We **have previously disclosed two** **use four** key performance indicators ("KPIs") that are key to understanding our business performance, as they reflect the different ways we enable clients to engage with our platform.

- **Crypto-enabled accounts.** We define crypto-enabled accounts as the total crypto accounts open on our platform. There were 6.2 million and less than 0.1 million crypto-enabled accounts as of December 31, 2023 and December 31, 2022, respectively.
- **Transacting accounts.** We define transacting accounts as unique accounts that perform transactions on our platform each month. We use transacting accounts to reflect how users across our platform use the variety of services we offer, such as **redeeming loyalty points for travel or merchandise**, buying and selling crypto to facilitate everyday purchases, **redeeming loyalty points for travel or merchandise**, or converting loyalty points to cash or gift cards. There were 3.8 million and 3.0 million unique monthly transacting accounts **in 2022**, including 1.0 million **in the fourth quarter of 2022**, years ended December 31, 2023 and December 31, 2022, respectively.
- **Digital asset conversion Notional traded volume.** This KPI refers to **We define notional traded volume as the dollar value total notional volume of transaction volume transactions across our platform, including crypto and loyalty redemption, crypto buy/sell platforms**. The figures we use represent gross values recorded as of the order date. Notional traded volumes were \$1,531.7 million and **gift card purchase transactions**. Our digital asset conversion volume was \$832.3 million **in 2022**, \$262.8 million **during the years ended December 31, 2023 and December 31, 2022, respectively**.
- **Assets under custody.** We define assets under custody as the sum of **which occurred in coin quantities held by customers multiplied by the fourth quarter final quote for each coin on the last day of 2022**. Assets under custody were \$701.6 million and \$15.8 million as of December 31, 2023 and December 31, 2022, respectively.

-64- 82-

Table of Contents

Results of Operations

The following table is our consolidated statements of operations for the **Successor periods** years ended December 31, 2023 and the **Predecessor period (in December 31, 2022, respectively)** (in thousands):

Revenues:	Successor		Predecessor
	Year Ended December 31, 2022	October 15, 2021 through December 31, 2021	
			January 1, 2021 through October 14, 2021

Net revenues (includes related party net revenues of \$42 and \$71, respectively, and affiliate net revenues of \$136) ⁽¹⁾	\$ 54,567	\$ 11,481	\$ 27,956
Operating expenses:			
Compensation and benefits	139,049	62,180	91,275
Professional services	11,483	3,034	5,175
Technology and communication	17,079	3,056	10,384
Selling, general and administrative	35,414	8,521	20,309
Acquisition-related expenses	5,675	1,603	24,793
Depreciation and amortization	25,350	5,422	9,620
Related party expenses (affiliate in Predecessor period) ⁽¹⁾	1,168	617	1,484
Goodwill and intangible assets impairments	1,822,089	—	—
Impairment of long-lived assets	11,494	1,196	3,598
Restructuring expenses	2,336	—	—
Other operating expenses	2,343	398	1,379
Total operating expenses	2,073,480	86,027	168,017
Operating loss	(2,018,913)	(74,546)	(140,061)
Interest income (expense), net	1,877	11	(247)
Gain (loss) from change in fair value of warrant liability	16,638	(79,373)	—
Other income (expense), net	(856)	832	487
Loss before income taxes	(2,001,254)	(153,076)	(139,821)
Income tax benefit (expense)	11,320	(11,751)	602
Net loss	(1,989,934)	(164,827)	\$ (139,219)
Less: Net loss attributable to noncontrolling interest	(1,411,829)	(120,832)	
Net loss attributable to Bakkt Holdings, Inc.	\$ (578,105)	\$ (43,995)	
Net loss per share attributable to Class A common stockholders:			
Basic	\$ (8.12)	\$ (0.81)	⁽²⁾
Diluted	\$ (8.12)	\$ (0.81)	⁽²⁾

⁽¹⁾ As a result of the VIH Business Combination, ICE and its affiliates are no longer our affiliates.

⁽²⁾ Basic and diluted loss per share is not presented for the Predecessor period due to lack of comparability with the Successor periods.

The comparability of our operating results for the year ended December 31, 2022 as compared to the periods from October 15, 2021 through December 31, 2021 and January 1, 2021 through October 14, 2021 was impacted by the VIH Business Combination in October 2021. We have prepared our discussion of the results of operations by comparing the results of the year ended December 31, 2022 and the combined year ended December 31, 2021, comprising the Successor period from October 15, 2021 through December 31, 2021 and the Predecessor period from January 1, 2021 through October 14, 2021 (together, the "combined 2021 period"). We believe this approach provides the most meaningful basis of comparison and is more useful than a separate analysis of the Predecessor and Successor periods of 2021 in identifying current business trends for the periods presented. The amounts relating to the combined 2021 period

65

Table of Contents

included in our discussion below are not considered to be prepared in accordance with U.S. GAAP and have not been prepared as pro forma results under applicable regulations. This should not be viewed as a substitute for the results of operations of the Predecessor and Successor periods presented in accordance with U.S. GAAP.

	Year Ended December 31, 2023	Year Ended December 31, 2022
Revenues:		
Crypto services	\$ 726,988	\$ 1,745
Loyalty services, net	53,148	54,479
Total revenues	780,136	56,224
Operating expenses:		
Crypto costs	718,511	1,657
Execution, clearing and brokerage fees	3,772	—

Compensation and benefits	102,042	139,049
Professional services	10,382	11,483
Technology and communication	20,837	17,079
Selling, general and administrative	33,385	35,414
Acquisition-related expenses	4,299	5,675
Depreciation and amortization	13,932	25,350
Related party expenses	3,902	1,168
Goodwill and intangible assets impairments	60,499	1,822,089
Impairment of long-lived assets	30,265	11,494
Restructuring expenses	4,608	2,336
Other operating expenses	1,592	2,343
Total operating expenses	1,008,026	2,075,137
Operating loss	(227,890)	(2,018,913)
Interest income, net	4,338	1,877
(Loss) gain from change in fair value of warrant liability	(1,571)	16,638
Other expense, net	(245)	(856)
Loss before income taxes	(225,368)	(2,001,254)
Income tax (expense) benefit	(444)	11,320
Net loss	(225,812)	(1,989,934)
Less: Net loss attributable to noncontrolling interest	(150,958)	(1,411,829)
Net loss attributable to Bakkt Holdings, Inc.	\$ (74,854)	\$ (578,105)
Net loss per share attributable to Class A common stockholders:		
Basic	\$ (0.84)	\$ (8.12)
Diluted	\$ (0.84)	\$ (8.12)

Year Ended December 31, 2022 (Successor) December 31, 2023 Compared to October 15, 2021 through December 31, 2021 (Successor) and January 1, 2021 through October 14, 2021 (Predecessor) Year Ended December 31, 2022

Financial Summary

The year ended December 31, 2022 December 31, 2023 included the following notable items relative to the periods October 15, 2021 through December 31, 2021 and January 1, 2021 through October 14, 2021 year ended December 31, 2022:

- Revenue increased \$15.1 million, or 38%, \$723.9 million primarily driven by strong transaction a significant increase in crypto services revenue from the loyalty redemption business due to our acquisition of Bakkt Crypto; and higher subscription and service revenue from expansion of services for an existing Loyalty client;

-83-

- Operating expenses increased \$1,819.4 million decreased \$1,067.1 million primarily driven by non-cash goodwill and intangible asset impairment charges impairments recorded in the prior year, partially offset by increased crypto trading costs in connection with our acquisition of Bakkt Crypto

Revenue

(\$ in thousands)	Successor		Predecessor	
	Year Ended December 31, 2022		January 1, 2021 through October 14, 2021	
	2022	2021	2021	2020
Net revenues	\$ 54,567	\$ 11,481	\$ 27,956	\$ 15,130
				38.4 %

⁽¹⁾ Change represents the year ended December 31, 2022 compared to the combined 2021 periods.

Net Revenues

Net revenues consist of transaction revenue crypto and subscription and service loyalty revenue. We receive earn revenue when consumers use our services to buy, sell, and spend store crypto and redeem loyalty points. We generate revenue across our platform in the following key areas:

- Subscription and service revenue. We receive a recurring subscription revenue stream from client platform fees as well as service revenue from software development fees and call center support.
- Transaction revenue. We generate transaction revenue **through** from crypto buy/sell trades where we earn a spread on both legs of the transaction (reported gross) and **through** loyalty redemption volumes where we receive a percentage fee based on the volume and **from** crypto buy/sell where we earn a spread on both legs (reported net of the transaction, associated costs).

Our **loyalty** revenue has seasonality and is typically higher in the fourth quarter, driven by holiday spending and the booking of travel. Revenue generated from our crypto services **has had** been immaterial **prior** to date. However, we expect that revenues **our** acquisition of Bakkt Crypto; however, revenue from **cryptoasset** trades, spending **crypto** and **other** transactions and subscription fees **will be** services is now a significant **driver** of our business, and we expect **those** revenues **crypto** revenue to increase as we grow our client base and our customers. As a result **over time**, of our acquisition of Bakkt Crypto, we expect loyalty revenue, which **has been** prior to the Bakkt Crypto acquisition **was** the source of substantially all of our revenue, historically, to decrease as be a smaller percentage of overall revenue in the future as the revenue from our **other** crypto product and service offerings grows.

Transaction Crypto Services Revenue

(\$ in thousands)	Year Ended December		Year Ended December		\$ Change	% Change
	31, 2023	31, 2022				
Crypto services	\$ 726,988	\$ 1,745	\$ 725,243			n/m

Crypto services revenue **is net of** incentives, rebates and liquidity payments, reductions in connection with increased by \$725.2 million for the contribution agreement entered into between Bakkt and ICE in connection with ICE's formation year ended December 31, 2023 compared to the year ended December 31, 2022. The increase was primarily driven by increased crypto trading volume due to our acquisition of Bakkt (the "Contribution Agreement"), and consideration payable to a customer pursuant to an agreement with a strategic partner, Crypto.

-66-

Table of Contents

Loyalty Services Revenue

Net revenues increased

(\$ in thousands)	Year Ended December		Year Ended December		\$ Change	% Change
	31, 2023	31, 2022				
Loyalty services, net	\$ 53,148	\$ 54,479	\$ (1,331)			(2.4 %)

Loyalty services revenue decreased by **\$15.1 million** \$1.3 million, or **38.4%** 2.4%, for the year ended **December 31, 2022** December 31, 2023 compared to the combined 2021 period, year ended December 31, 2022. The increase was comprised of \$11.5 million of increased transaction revenue and \$3.6 million of increased subscription and service revenue. The increase in transaction revenue was primarily driven by \$7.6 million from higher customer activity in our loyalty redemption services business and \$2.5 million from increased interchange fees. The increase in subscription and service revenue decrease was primarily related to the addition of new services for an existing loyalty client, reduced volume-based service revenue, partially offset by reduced development services, increased transaction volume.

Operating Expenses

Operating expenses consist of **crypto** costs, execution, clearing and brokerage fees, compensation and benefits, professional services, technology and communication expenses, selling, general and administrative expenses, acquisition-related expenses, depreciation and amortization, **affiliate** related party expenses, **goodwill** and **intangible assets** **impairments**, impairment of **indefinite-lived intangible assets**, long-lived assets, **and goodwill**, restructuring charges, and other operating expenses.

-84-

Crypto Costs

(\$ in thousands)	Year Ended December		Year Ended December		\$ Change	% Change
	31, 2023	31, 2022				
Crypto costs	\$ 718,511	\$ 1,657	\$ 716,854			n/m

Crypto costs represent the gross value of crypto sold by our customers on our platform. These costs are measured at the executed price at the time of the trade. Crypto costs increased by \$716.9 million for the year ended December 31, 2023 compared to the year ended December 31, 2022, which reflects increased volume driven by our acquisition of Bakkt Crypto.

Execution, Clearing and Brokerage Fees

(\$ in thousands)	Year Ended December		Year Ended December		\$ Change	% Change
	31, 2023	31, 2022	31, 2022	31, 2023		
Execution, clearing and brokerage fees	\$ 3,772	\$ —	\$ —	\$ 3,772	\$ 3,772	n/m

Execution, clearing and brokerage fees primarily represent payments to clients in exchange for driving order flow to our platform. Execution, clearing and brokerage fees were \$3.8 million during the year ended December 31, 2023. The increase reflects increased volume driven by our acquisition of Bakkt Crypto.

Compensation and Benefits

(\$ in thousands)	Successor		Predecessor		\$ Change ⁽¹⁾	% Change ⁽¹⁾		
	October 15, 2021		January 1, 2021					
	Year Ended December	through December 31,	through	October 14, 2021				
Compensation and benefits	\$ 139,049	\$ 62,180	\$ 91,275	\$ (14,406)	\$ (14,406)	(9.4 %)		

⁽¹⁾ Change represents the year ended December 31, 2022 compared to the combined 2021 periods.

(\$ in thousands)	Year Ended December		Year Ended December		\$ Change	% Change
	31, 2023	31, 2022	31, 2022	31, 2023		
Compensation and benefits	\$ 102,042	\$ 139,049	\$ (37,007)	\$ (37,007)	\$ (37,007)	(26.6 %)

Compensation and benefits expense include all salaries and benefits, compensation for contract labor, incentive programs for employees, payroll taxes, share-based and unit-based compensation and other employee related costs. Upon the consummation of the VIH Business Combination on October 15, 2021, one-third of the awards in the Equity Plan vested, which resulted in recognition of \$77.8 million of incremental unit-based compensation expense in the combined 2021 period (\$30.6 million in the Predecessor period and \$47.2 million in the Successor period). The second and third tranches vest on the one-year and two-year anniversary date of the transaction close, respectively.

Headcount increased in 2022 across functions. Our headcount decreased year over year as we invested in strengthening and undertook restructuring actions and right sized our service offerings expense base to meet current market demand. We expect to limit future hiring and enhancing further optimize our systems, processes, headcount as we complete development projects on our platform. Compensation and controls. We granted equity awards as part of benefits expense is a significant component of our operating expenses, and we expect this will continue to be the compensation package for new employees. We case. However, we expect that our compensation and benefits expenses will decrease as a percentage of our revenue over time. Compensation and benefits decreased by \$14.4 million \$37.0 million, or 9.4% 26.6%, for the year ended December 31, 2022 December 31, 2023 compared to the combined 2021 period. The decrease was primarily due to a decrease of \$48.0 million in non-cash compensation due to the recognition of one time incremental unit-based compensation expense related to the VIH Business Combination in the combined 2021 period, which was partially offset by additional expense from new equity awards granted during the year ended December 31, 2022. The decrease was primarily due to decreases of \$21.9 million in non-cash compensation was partially offset by increases of \$21.9 million in additional salaries, wages and benefits, \$10.0 million incentive bonuses, \$10.2 million in contract labor, for net of capitalized software development \$1.3 million and \$2.6 million in payroll taxes, and \$1.4 million in recruiting fees, as well as \$1.8 million of non-recurring severance costs. The majority of the increase in these costs, excluding the amounts related to the VIH Business Combination, resulted from increases in headcount to support the projected growth in our business and increased compliance and reporting requirements as a public company. Compensation and benefits expense is the most significant component of our operating expenses, and we expect that this will continue to be the case after the restructuring efforts in the fourth quarter of 2022 and the first quarter of 2023.

-67-

Table of Contents

Professional Services

(\$ in thousands)	Successor		Predecessor		\$ Change ⁽¹⁾	% Change ⁽¹⁾		
	October 15, 2021		January 1, 2021					
	Year Ended December	through December 31,	through	October 14, 2021				
Professional services	\$ 11,483	\$ 3,034	\$ 5,175	\$ 3,274	\$ (1,101)	39.9 %		

⁽¹⁾ Change represents payments made during the year ended December 31, 2022 compared to the combined 2021 periods. restructuring actions.

Professional Services

(\$ in thousands)	Year Ended December		Year Ended December		\$ Change	% Change
	31, 2023	31, 2022	31, 2022	31, 2023		
Professional services	\$ 10,382	\$ 11,483	\$ (1,101)	\$ (1,101)	\$ (1,101)	(9.6 %)

Professional services expense includes fees for accounting, legal and regulatory fees. Professional services increased decreased by \$3.3 million \$1.1 million, or 99.9% 9.6%, for the year ended December 31, 2022 December 31, 2023 compared to the combined 2021 period. The increase decrease was primarily due to increases decreases of \$2.2 million in legal fees and \$2.1 million \$0.9 million in audit and tax fees and \$1.3 million in other professional fees, which was partially offset by a decrease an increase in other professional legal fees of \$1.0 million.

-85-

Technology and Communication

(\$ in thousands)	Successor		Predecessor		\$ Change ⁽¹⁾	% Change ⁽¹⁾		
	October 15, 2021		January 1, 2021					
	Year Ended December 31, 2022	through December 31, 2021	through October 14, 2021					
Technology and Communication	\$ 17,079	\$ 3,056	\$ 10,384	\$ 3,639	27.1 %			

⁽¹⁾ Change represents the year ended December 31, 2022 compared to the combined 2021 periods.

(\$ in thousands)	Year Ended December 31, 2023	Year Ended December 31, 2022	\$ Change	% Change
	31, 2023	31, 2022		
Technology and communication	\$ 20,837	\$ 17,079	\$ 3,758	22.0 %

Technology and communication costs represent all non-headcount related costs to deliver technological solutions. Such costs principally include amounts paid for software licenses and software-as-a-service arrangements utilized for operating, administrative and information security activities, fees paid for third-party data center hosting arrangements, and fees paid to telecommunications service providers and for telecommunication software platforms necessary for operation of our customer support operations. These costs are driven by client requirements, system capacity, functionality and redundancy requirements.

Technology and communications expense also includes fees paid for access to external market data and associated licensing costs, which may be impacted by growth in electronic contract volume, our capacity requirements, changes in the number of telecommunications hubs, and connections with customers to access our electronic platforms directly. Technology and communications expense increased by \$3.6 million \$3.8 million, or 27.1% 22.0%, for the year ended December 31, 2022 December 31, 2023 compared to the combined 2021 period. year ended December 31, 2022. The increase was primarily due to an increase of \$3.8 million in hardware and software license fees.

Selling, General and Administrative

(\$ in thousands)	Successor		Predecessor		\$ Change ⁽¹⁾	% Change ⁽¹⁾		
	October 15, 2021		January 1, 2021					
	Year Ended December 31, 2022	through December 31, 2021	through October 14, 2021					
Selling, General and Administrative	\$ 35,414	\$ 8,521	\$ 20,309	\$ 6,584	22.8 %			

⁽¹⁾ Change represents the year ended December 31, 2022 compared to the combined 2021 periods.

(\$ in thousands)	Year Ended December 31, 2023	Year Ended December 31, 2022	\$ Change	% Change
	31, 2023	31, 2022		
Selling, general and administrative	\$ 33,385	\$ 35,414	\$ (2,029)	(5.7 %)

Selling, general and administrative expenses include marketing, advertising, business insurance, rent and occupancy, bank service charges, dues and subscriptions, travel and entertainment, rent and occupancy, and other general and administrative costs. Our marketing activities primarily consist of web-based promotional campaigns, promotional activities with clients,

-68-

Table of Contents

conferences and user events, and brand-building activities. Selling, general and administrative expenses do not include any headcount cost, which is reflected in the compensation "Compensation and benefits" financial statement line item. Our selling, general and administrative expenses will continue to increase in absolute dollars to support the projected growth in our business and requirements of being a public company, including increased insurance premiums and disclosure processes. However, we expect these costs will decrease as a percentage of our revenue in future years as we gain improved operating leverage from our projected revenue growth.

Selling, general and administrative costs **decreased** by **\$6.6 million** **\$2.0 million**, or **22.8%** **5.7%**, for the year ended **December 31, 2022** **December 31, 2023** compared to the **combined 2021 period**. The **increase** **decrease** was primarily due to a **\$4.3 million** reduction in marketing expenses and decreased travel and entertainment expenses of **\$0.3 million**, partially offset by increases of **\$12.4 million** in insurance expense and **\$2.4 million** **\$1.2 million** in occupancy costs, partially offset by a reduction of marketing expenses of **\$10.1 million**. The **\$1.0 million** in dues and subscriptions and **\$0.3 million** in regulatory filing fees. In 2022, the majority of marketing expenses are **were** web-based promotional campaigns. campaigns associated with our direct to consumer app, which we retired in the first quarter of 2023. We expect to increase marketing efforts as part of going forward to reflect our broader growth initiatives, which is expected to result in increased selling, general B2B2C focus and administrative expenses in future periods. we will scale investments up or down depending on market conditions and opportunities.

Acquisition-related Expenses

(\$ in thousands)	Successor		Predecessor	
	October 15, 2021		January 1, 2021	
	Year Ended December 31, 2022	through December 31, 2021	through October 14, 2021	\$ Change ⁽¹⁾
Acquisition-related expenses	\$ 5,675	\$ 1,603	\$ 24,793	\$ (20,721)
				(78.5 %)

⁽¹⁾ Change represents the year ended December 31, 2022 compared to the combined 2021 periods.

(\$ in thousands)	Year Ended December 31, 2023	Year Ended December 31, 2022	\$ Change	% Change
	31, 2023	31, 2022		
Acquisition-related expenses	\$ 4,299	\$ 5,675	\$ (1,376)	(24.2 %)

Acquisition-related expenses **decreased** by **\$20.7 million** **\$1.4 million**, or **78.5%** **24.2%**, for the year ended **December 31, 2022** **December 31, 2023** compared to the **combined 2021 period**. The **year ended December 31, 2022**. Acquisition-related expenses for the year ended December 31, 2023 primarily consisted of fees for investment banking advisors, lawyers, accountants, tax advisors and public relations firms

-86-

related to the acquisitions of Bakkt Crypto and Bakkt Brokerage. Acquisition-related expenses for the year ended December 31, 2022 **consisted** of fees for investment banking advisors, lawyers, accountants, tax advisors and public relations firms directly related to the acquisition of **Apex Bakkt Crypto** and **Bumped**. Acquisition-related expenses for the **combined 2021 period** consisted of fees for investment banking advisors, lawyers, accountants, tax advisors and public relations firms directly related to the **VIH Business Combination**. **Bakkt Brokerage**. The amount and timing of acquisition-related expenses is expected to vary across periods based on potential transaction activities.

Depreciation and Amortization

(\$ in thousands)	Successor		Predecessor	
	October 15, 2021		January 1, 2021	
	Year Ended December 31, 2022	through December 31, 2021	through October 14, 2021	\$ Change ⁽¹⁾
Depreciation and amortization	\$ 25,350	\$ 5,422	\$ 9,620	\$ 10,308
				68.5 %

⁽¹⁾ Change represents the year ended December 31, 2022 compared to the combined 2021 periods.

(\$ in thousands)	Year Ended December 31, 2023	Year Ended December 31, 2022	\$ Change	% Change
	31, 2023	31, 2022		
Depreciation and amortization	\$ 13,932	\$ 25,350	\$ (11,418)	(45.0 %)

Depreciation and amortization expense consists of amortization of intangible assets from business acquisitions, internally developed software and depreciation of purchased software and computer and office equipment over their estimated useful lives. Intangible assets subject to amortization consist primarily of acquired technology and client relationships from the **VIH Business Combination**. completed acquisitions, including our acquisition of Bakkt Crypto. Depreciation and amortization **decreased** by **\$10.3 million** **\$11.4 million**, or **68.5%** **45.0%**, for the year ended **December 31, 2022** **December 31, 2023** compared to the **combined 2021 period**. The **decrease** was primarily due to an **increase** **lower** net book values of **\$12.2 million** related to the step-up **intangible assets** after **impairments** were recognized in **basis** **2022 and 2023**.

Related Party Expenses

(\$ in thousands)	Year Ended December 31, 2023	Year Ended December 31, 2022	\$ Change	% Change
	31, 2023	31, 2022		
Related party expenses	\$ 3,902	\$ 1,168	\$ 2,734	234.1 %

Related party expenses consist of the technology and client relationships acquired in connection with the VIH Business Combination, partially offset fees for transition services agreements. Related party expenses increased by a decrease of \$1.9 million related to amortization of capitalized software.

-69-

Table of Contents

Impairment of goodwill and other intangible assets

(\$ in thousands)	Successor		Predecessor		\$ Change ⁽¹⁾	% Change ⁽¹⁾		
	Year Ended December 31, 2022	October 15, 2021	January 1, 2021 through October 14, 2021	\$ Change ⁽¹⁾				
		through December 31, 2021						
Goodwill and intangible assets impairments	\$ 1,822,089	\$ —	\$ —	\$ 1,822,089		n/m		

⁽¹⁾ Change represents \$2.7 million, or 234.1%, for the year ended December 31, 2022 December 31, 2023 compared to the combined 2021 periods. The increase was due to fees associated with Bakkt Crypto's transition services agreement, as well as higher fees associated with ICE's transition services agreement.

Goodwill and Intangible Assets Impairments

(\$ in thousands)	Year Ended December 31, 2023		Year Ended December 31, 2022		\$ Change	% Change
	31, 2023	31, 2022	31, 2022	31, 2023		
Goodwill and intangible assets impairments	\$ 60,499	\$ 1,822,089	\$ 1,822,089	\$ (1,761,590)		n/m

We recorded an impairment intangible asset impairments of \$60.5 million during the year ended December 31, 2023. We recorded impairments of goodwill and other intangible assets of \$1,822.1 million during the year ended December 31, 2022 December 31, 2022. Refer to Note 5 in audited our consolidated financial statements included in this Annual Report on Form 10-K for further information. Impairment of our remaining goodwill or intangible assets may be necessary occur in the future.

Impairment of long-lived assets

(\$ in thousands)	Successor		Predecessor		\$ Change ⁽¹⁾	% Change ⁽¹⁾		
	Year Ended December 31, 2022	October 15, 2021	January 1, 2021 through October 14, 2021	\$ Change ⁽¹⁾				
		through December 31, 2021						
Impairment of long-lived assets	\$ 11,494	\$ 1,196	\$ 3,598	\$ 6,700		139.8 %		

⁽¹⁾ Change represents the year ended December 31, 2022 compared to the combined 2021 periods.

(\$ in thousands)	Year Ended December 31, 2023		Year Ended December 31, 2022		\$ Change	% Change
	31, 2023	31, 2022	31, 2022	31, 2023		
Impairment of long-lived assets	\$ 30,265	\$ 11,494	\$ 11,494	\$ 18,771		163.3 %

Impairment of long-lived assets expense increased by \$6.7 million \$18.8 million, or 139.8% 163.3%, for the year ended December 31, 2022 December 31, 2023 compared to the combined 2021 period. The increase was due to fees associated with Bakkt Crypto's transition services agreement, as well as higher fees associated with ICE's transition services agreement.

-87-

certain internally developed software assets and \$0.8 million related to other assets. During the year ended December 31, 2022, we recorded impairment charges of \$8.7 million related to certain internally developed software assets pursuant to our fourth quarter impairment described in Note 5 to the consolidated financial statements included in this Annual Report on Form 10-K and \$2.8 million in unrelated charges for another software product that was cancelled prior to being placed in service. During the combined 2021 period, we recorded impairment charges of \$1.2 million in the Successor period related to the termination of a software license agreement and \$3.6 million in the Predecessor period to measure the fair value of a customer consideration asset at \$0 after reassessing the future consideration expected to be received less cost of services from our relationship with a strategic client. Impairment of our remaining long-lived assets may be necessary occur in the future.

Restructuring expenses

(\$ in thousands)	Successor		Predecessor		Year Ended December 31, 2023	Year Ended December 31, 2022	\$ Change	% Change
	(\$ in thousands)	Year Ended December 31, 2022	(\$ in thousands)	Year Ended December 31, 2021				
	October 15, 2021 through October 14, 2021	\$ Change ⁽¹⁾	% Change ⁽¹⁾					
Restructuring expenses	Restructuring expenses	\$ 2,336	\$ —	\$ 2,336	\$ 4,608	\$ 2,336	\$ 2,272	97.3 %
	Restructuring expenses	\$ 2,336	\$ —	\$ 2,336	\$ 4,608	\$ 2,336	\$ 2,272	97.3 %

⁽¹⁾ Change represents Restructuring expenses of \$4.6 million for the year ended December 31, 2022 compared December 31, 2023 consist of severance costs as part of our business simplification initiatives to the combined 2021 periods.

focus on capabilities with strong product market fit and scalability. Restructuring expenses of \$2.3 million for the year ended December 31, 2022 consist of severance costs as part of our business simplification initiatives to focus on capabilities with strong product market fit and scalability.

-70-

Table of Contents

(Loss) Gain (loss) from Change in Fair Value of Warrant Liability

(\$ in thousands)	Successor		Predecessor	
	Year Ended December 31, 2022	October 15, 2021 through December 31, 2021	January 1, 2021 through October 14, 2021	\$ Change ⁽¹⁾
				% Change ⁽¹⁾
Gain (loss) from change in fair value of warrant liability	\$ 16,638	\$ (79,373)	\$ —	\$ 96,011 (121.0 %)

⁽¹⁾ Change represents the year ended December 31, 2022 compared to the combined 2021 periods.

(\$ in thousands)	Year Ended December 31, 2023	Year Ended December 31, 2022	\$ Change	% Change
(Loss) gain from change in fair value of warrant liability	\$ (1,571)	\$ 16,638	\$ (18,209)	(109.4 %)

We recorded a gain loss of \$16.6 million \$1.6 million during the year ended December 31, 2022 December 31, 2023 for the change in fair value on the revaluation of our warrant liability associated with our public warrants. We recorded a loss gain of \$79.4 million \$16.6 million during the period from October 15, 2021 through December 31, 2021 year ended December 31, 2022 for the change in fair value on the revaluation of our warrant liability associated with our public warrants. This is a non-cash charge and is driven by fluctuations in the market price of our warrants.

Other income (expense), Expense, net

(\$ in thousands)	Successor		Predecessor	
	Year Ended December 31, 2022	October 15, 2021 through December 31, 2021	January 1, 2021 through October 14, 2021	\$ Change ⁽¹⁾
				% Change ⁽¹⁾
Other income (expense), net	\$ (856)	\$ 832	\$ 487 (2,175)	(164.9 %)

⁽¹⁾ Change represents the year ended December 31, 2022 compared to the combined 2021 periods.

(\$ in thousands)	Year Ended December 31, 2023	Year Ended December 31, 2022	\$ Change	% Change
Other expense, net	\$ (245)	\$ (856)	\$ 611	(71.4 %)

Other income (expense), expense, net primarily consists of non-operating gains and losses. During the year ended December 31, 2023, we recorded expense of \$0.4 million related to foreign currency transaction loss. During the year ended December 31, 2022, we recorded expense of \$1.2 million for the loss on sale of assets, partially offset by \$0.3 million of foreign currency transaction gains. During the combined 2021 period, we recorded income of \$1.3 million for the extinguishment of the liability associated with the software license agreement in the Successor period and income of \$1.0 million for the sale of crypto outside of the normal course of business in the Predecessor. This income was partially offset by \$0.6 million of foreign currency transaction losses in the combined 2021 period.

Income Tax (Expense) Benefit

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(\$ in thousands)	Year Ended December		Year Ended December		\$ Change	% Change
	31, 2023	31, 2022	31, 2022	\$ (11,764)		
Income tax (expense) benefit	\$ (444)	\$ 11,320	\$ (11,764)	(103.9 %)		

Income tax (expense) benefit

(\$ in thousands)	Successor		Predecessor		
	October 15, 2021		January 1, 2021 through		
	Year Ended December	through December 31,	October 14, 2021	\$ Change ⁽¹⁾	% Change ⁽¹⁾
Income tax benefit (expense)	\$ 11,320	\$ (11,751)	\$ 602	\$ 22,469	(201.5 %)

⁽¹⁾ Change represents expense in the year ended December 31, 2022 compared December 31, 2023 primarily consists of current state tax expense related to the combined 2021 periods.

certain state jurisdictions wherein we are required to file income tax returns. Income tax expense in the year ended December 31, 2022 primarily consists of \$11.6 million of deferred tax benefit resulting from book-tax differences stemming from investments in Opco and its subsidiaries. Income tax expense in the period from October 15, 2021 through December 31, 2021 primarily consists of \$11.7 million of deferred tax expense resulting from book-tax differences stemming from investments in Opco and its subsidiaries. Those future tax liabilities will change prospectively due to ongoing book-tax differences, which include, but are not limited to, (i) differences between book and tax loss allocation from Opco to the Company, (ii) mark-to-market activity related to warrants to purchase the Company's stock, and (iii) exchanges of Opco common units (and the corresponding shares of the Company's Class V common stock) for shares of the Company's Class A common stock or cash in lieu of Class A common stock. In

-71- -88-

Table of Contents

the predecessor period, Opco and its subsidiaries were classified as partnerships for U.S. federal income tax purposes or other pass through entities resulting in minimal impacts from income tax.

Supplemental Unaudited Pro Forma Financial operations

The following supplemental unaudited pro forma financial information for the year ended December 31, 2021 presents the combined results of operations as if the VIH Business Combination had occurred as of January 1, 2021.

Management believes the supplemental unaudited pro forma information presented below provides a meaningful comparison of operating results; however, it should not be viewed as a substitute for the historical financial results of Bakkt and VIH. The supplemental unaudited pro forma financial information presented below should be read in conjunction with our historical audited consolidated financial statements for the year ended December 31, 2022 and the periods from October 15, 2021 through December 31, 2021 and January 1, 2021 through October 14, 2021 included in Item 8 of this Annual Report on Form 10-K.

The supplemental unaudited pro forma financial information as presented below is for illustrative purposes and does not purport to represent what the results of operations would actually have been if the business combinations occurred as of the date indicated or what the results would be for any future periods. In addition, future results may vary significantly from those reflected in the supplemental unaudited pro forma financial information in the table below and should not be relied upon as an indication of any of our future results of operations. The unaudited pro forma results reflect the step-up amortization adjustments for the fair value of intangible assets acquired, acquisition-related expenses, nonrecurring post-combination compensation expense, unit-based compensation expense under the new capital structure and the related adjustment to the income tax provision. The pro forma information does not reflect any operating efficiencies, post-acquisition synergies or cost savings that we may achieve with respect to the combined companies.

(in thousands)	Year Ended	
	December 31, 2021	
Bakkt gross revenue	\$ 1,029	
Bakkt contra-revenue	(2,085)	
VIH revenue	—	
Bridge2 Solutions revenue	40,493	
Pro forma revenue	\$ 39,437	

(in thousands)	Year Ended	
	December 31, 2021	
Pro forma net loss	\$ (198,467)	
Less: pro forma loss attributable to noncontrolling interest	(165,136)	
Pro forma net loss attributable to Bakkt Holdings, Inc.	\$ (33,331)	

Liquidity and Capital Resources

Our predecessor principally financed its operations through equity financings in the form of capital contributions from its members and, to a lesser degree, from client revenues. In addition, in 2018, ICE contributed certain developed assets and rights to use exchange and clearing licenses enabling Bakkt to commence operations. In connection with the closing of the VIH Business Combination, our predecessor's cash position was supplemented by \$532.4 million, which included \$325.0 million in proceeds from the closing of a private placement of shares of our Class A common stock and \$207.4 million that had previously been held in trust.

As of December 31, 2022 December 31, 2023, we had \$98.3 million \$52.9 million and \$16.5 million \$31.8 million of cash and cash equivalents and restricted cash, respectively. Additionally, as of December 31, 2023, we had \$17.4 million of available-for-sale debt securities that mature over the next four months. Cash and cash equivalents consist of cash deposits at banks and money market funds. Restricted cash is held to satisfy certain minimum capital requirements pursuant to regulatory requirements, or as collateral for insurance contracts. Restricted cash increased during 2023 primarily due to insurance collateral requirements.

-72-

Table As discussed above, we consummated the initial closings related to Concurrent Offerings in March 2024. As of **Contents** February 29, 2024, we had \$38.1 million and \$36.9 million of cash and cash equivalents and restricted cash, respectively.

requirements as well as satisfy covenants under our commercial purchasing card facility. Additionally, as of December 31, 2022 February 29, 2024, we had \$141.1 million did not have any available-for-sale debt securities. As of available for sale debt March 18, 2024, we have raised net proceeds from the Concurrent Offerings of approximately \$40.0 million, after deducting the placement agent's fees and estimated offering expenses payable by us, and may raise an additional \$7.6 million in gross proceeds from the ICE Offering, assuming all securities that mature over are issued in the next 2 to 9 months. ICE Offering. Approximately \$2.4 millions of proceeds from the ICE Offering were received concurrently with the closing of the Third-Party Offering.

We intend to use our unrestricted cash, inclusive of the net proceeds from the Concurrent Offerings, and proceeds from maturity of available for sale available-for-sale debt securities to (i) maintain fund our sales day-to-day operations, including, but not limited to funding our regulatory capital requirements, compensating balance arrangements and marketing efforts and other similar commitments, each of which is subject to change, (ii) activate new crypto clients, (iii) maintain our research and product development efforts, (iv) and (v) optimize our technology infrastructure and operational support and (vi) fund the \$55.0 million cash purchase price to acquire Apex support. We expect to limit future hiring and leverage the team we have built in 2022 to date as well as our Apex Bakkt Crypto acquisition to execute our growth strategy. We are undertaking further strategic analysis of our headcount and expense base and will take further action to right-size both in 2024. We expect that we will be able to reduce the amount of cash that is restricted associated with regulatory capital and insurance requirements through the integration of Bakkt Crypto. Excluding the cash purchase price to acquire Apex, Bakkt Crypto, we expect our operating cash usage in 2023 2024 (exclusive of potential acquisitions or other strategic initiatives) to decline from 2022 2023 levels driven by the combined impact of increased revenue and expense reductions related to the completion of large-dollar investments in 2022 2023 and benefits from restructuring actions. In addition, we may in the future enter into arrangements to acquire or invest in complementary businesses, services, technologies or intellectual property rights. However, we have no agreements or commitments with respect to any such acquisitions or investments at this time.

Our expected uses of the available funds are based upon on our present plans, objectives and business condition. We have not determined all of the particular uses for the available funds, and management has not estimated the amount of funds, or the range of funds, to be used for any particular purpose. As a result, our management retain broad discretion over the available funds.

Our future cash requirements will depend on many factors, including our revenue growth rate, the timing and extent of hiring overhead, sales and associated overhead marketing expenditures to support projected growth, in and our business, sales and marketing costs ability to drive revenue growth, and limit our software development investments to continue adding features and functionality with a clear line of sight to our technology platforms to align with market needs. revenue generation. We expect to augment our personnel with employees acquired in the Apex transaction. We believe that we substantially completed the necessary investment made substantial investments in our platforms in 2022 and 2023, which enables we expect will enable us to simplify our organization and focus on the core capabilities that are critical to our strategy. We may also enter into other arrangements

Our losses and projected cash needs, combined with our liquidity level, raised substantial doubt about our ability to acquire or invest in complementary businesses, services, and technologies which will likely require us to increase our cash consumption.

In addition, we have evaluated continue as a going concern. Management believes the expected impact of the COVID-19 pandemic on our liquidity and capital needs, cash flows resulting from the Concurrent Offerings, entity integration and we anticipate operational initiatives outlined above are probable of occurring, sufficient to enable us to meet our obligations for at least twelve months from the date the audited financial statements in this Annual Report on Form 10-K are issued and alleviate the conditions that its effects will be largely neutral.

Depending on the foregoing raised substantial doubt about our ability to continue as a going concern. However, there are certain risks associated with this determination. Please see "Risk Factors - Risks Related to Our Business, Finance and other factors that may affect our business in the future, we may be required to seek additional capital contributions or debt financing in the future. In the event that additional financing is required from outside sources, we may Operations - We might not be able to raise it on terms acceptable to us or at all, continue as a going concern." for more information.

-89-

The following table summarizes our cash flows for the periods presented:

	Successor		Predecessor	
	October 15, 2021			
	Year Ended December 31, 2022	through December 31, 2021		
Net cash flows used in operating activities	\$ (117,597)	\$ (83,387)	\$ (50,915)	
Net cash flows provided by (used in) investing activities	\$ (171,961)	\$ 27,259	\$ (10,342)	
Net cash flows provided by (used in) financing activities	\$ (2,584)	\$ 256,925	\$ (97)	

	Year Ended December 31, 2023		Year Ended December 31, 2022
	Year Ended December 31, 2023	Year Ended December 31, 2022	Year Ended December 31, 2022
Net cash used in operating activities	\$ (60,697)	\$ (117,597)	\$ (117,597)
Net cash provided by (used in) investing activities:	\$ 65,970	\$ (171,961)	\$ (171,961)
Net cash used in financing activities:	\$ (2,634)	\$ (2,584)	\$ (2,584)

Operating Activities

Since our inception, we have yet to achieve positive cash flow from operations. Our primary uses of cash include compensation and benefits for headcount-related expenses, investment in software and product development of our technology platforms, **most significantly our consumer app**, and associated non-headcount technology and communication cost to develop, operate and support our customer-facing technology platforms.

-73-

Table Net cash used in operating activities of Contents \$60.7 million for the year ended December 31, 2023 was primarily related to our net loss of \$225.8 million, offset by non-cash charges of \$123.2 million and changes in our operating assets and liabilities of \$41.9 million. The non-cash charges for the year ended December 31, 2023 primarily consisted of intangible and long-lived asset impairments of \$90.8 million, share-based compensation of \$15.5 million, depreciation and amortization of \$13.9 million, non-cash lease expense of \$3.1 million and the loss from the change in fair value of our warrant liability of \$1.6 million, partially offset by the change in fair value of the contingent consideration of \$3.0 million. Net cash inflows from changes in our operating assets and liabilities for the year ended December 31, 2023 resulted primarily from a \$32.3 million increase in customer funds, a non-recurring return of a \$15.2 million deposit with ICE Clear US, Inc., a decrease in prepaid insurance of \$9.8 million, and an increase in amounts due to related parties of \$2.1 million, which were partially offset by an increase in accounts payable and accrued liabilities of \$8.0 million, an increase in operating lease liabilities of \$3.0 million, and an increase in accounts receivable of \$10.0 million.

Net cash used in operating activities of \$117.6 million for the year ended December 31, 2022 was primarily related to our net loss of \$1,989.9 million, offset by non-cash charges of \$1,869.4 million and changes in our operating assets and liabilities of \$2.9 million. The non-cash charges for the year ended December 31, 2022 primarily consisted of goodwill and intangible assets impairments of \$1,822.1 million, share-based compensation of \$31.6 million, depreciation and amortization of \$25.4 million, **gain from change in fair value of warrant liability of \$16.6 million, deferred tax expense of \$11.6 million and impairment of long-lived assets of \$11.5 million**, partially offset by the gain from the change in fair value of our warrant liability of \$16.6 million and deferred tax expense of \$11.6 million. Net cash inflows from changes in our operating assets and liabilities for the year ended December 31, 2022 resulted primarily from a decrease in prepaid insurance of \$9.4 million, an increase in operating lease liabilities of \$4.2 million, and an increase in accounts payable and accrued liabilities of \$0.7 million, which were partially offset by an increase in accounts receivable of \$7.2 million, an increase in other assets and liabilities of \$2.4 million and a decrease in deferred revenue of \$2.4 million.

Net cash used in operating activities of \$134.3 million for the combined 2021 period was primarily related to our combined 2021 period net loss of \$304.0 million, offset by non-cash charges of \$193.8 million and changes in our operating assets and liabilities of \$24.1 million. The non-cash charges for the combined 2021 period primarily consisted of loss from change in fair value of warrant liability of \$79.4 million, unit-based compensation of \$78.8 million, depreciation and amortization of \$15.0 million and impairment of long-lived assets of \$4.8 million. Net cash inflows from changes in our operating assets and liabilities for the combined 2021 period resulted primarily from an increase in accounts payable and accrued liabilities of \$3.6 million and the return of a deposit with our clearinghouse affiliate of \$20.2 million, which were partially offset by an increase in prepaid insurance of \$31.5 million, an increase in other assets and liabilities of \$8.1 million and an increase in accounts receivable of \$7.7 million.

Investing Activities

Net cash flows provided by investing activities of \$66.0 million for the year ended December 31, 2023 primarily consisted of the receipt of \$185.8 million of proceeds from the sale of available-for-sale securities, partially offset by the purchase of \$61.8 million of available-for-sale debt securities, \$47.9 million net cash used to acquire Bakkt Crypto, \$0.6 million cash used to acquire Bakkt Brokerage and \$9.4 million of capitalized costs of internally developed software for our technology platforms.

Net cash flows used in investing activities of \$172.0 million for the year ended December 31, 2022 primarily consisted of \$306.6 million related to the purchase of available for sale debt securities and \$30.5 million of capitalized costs of internally developed software for our technology platforms, partially offset by the receipt of \$165.2 million of proceeds from the sale of available-for-sale securities.

-90-

Financing Activities

Net cash flows provided by investing used in financing activities of \$16.9 million \$2.6 million for the combined 2021 period primarily consisted of \$30.8 million of cash acquired through the VIH Business Combination and \$1.8 million of year ended December 31, 2023 resulted from proceeds from sale the repurchase and retirement of shares Class A Common Stock of affiliate stock, partially offset by \$15.7 million of capitalized costs of internally developed software. Capital expenditures were primarily related to capitalized expenses associated with internally developed software for our technology platforms.

Financing Activities \$2.6 million.

Net cash flows used in financing activities of \$2.6 million for the year ended December 31, 2022 resulted from proceeds from the repurchase and retirement of Class A common stock Common Stock of \$2.6 million.

Net cash flows provided by financing activities of \$256.8 million for the combined 2021 period resulted from proceeds from PIPE investments and proceeds from the exercise of warrants amounting to \$312.0 million and \$37.1 million, respectively which is partially offset by cash outflow due to repurchase of redeemed Class A ordinary shares amounting to \$84.5 million and also offset by payment of deferred underwriting fees amounting to \$7.3 million.

Tax Receivable Agreement

Concurrently with the completion of the VIH Business Combination, we entered into a Tax Receivable Agreement ("TRA") with certain Bakkt Equity Holders. Pursuant to the TRA, among other things, holders of Bakkt Common Units may, subject to certain conditions, from and after April 15, 2022 April 16, 2022, exchange such Common Units (along with a corresponding number of shares of our Common Stock), for Class A common stock Common Stock on a one-for-one basis, subject to the terms of the Exchange Agreement, including our right to elect to deliver cash in lieu of Class A common stock Common Stock and, in certain cases, adjustments as set forth therein. Bakkt will have in effect an election under Section 754 of the Internal

-74-

Table of Contents

Revenue Code for each taxable year in which an exchange of Bakkt Common Units for Class A common stock Common Stock (or cash) occurs.

The exchanges are expected to result in increases in the tax basis of the tangible and intangible assets of Bakkt. These increases in tax basis may reduce the amount of tax that we would otherwise be required to pay in the future. These increases in tax basis may also decrease gains (or increase losses) on future dispositions of certain capital assets to the extent tax basis is allocated to those capital assets.

The TRA provides for the payment by us to exchanging holders of Bakkt Common Units of 85% of certain net income tax benefits, if any, that we realize (or in certain cases is deemed to realize) as a result of these increases in tax basis related to entering into the TRA, including tax benefits attributable to payments under the TRA. This payment obligation is an obligation of the Company and not of Bakkt. For purposes of the TRA, the cash tax savings in income tax will be computed by comparing our actual income tax liability (calculated with certain assumptions) to the amount of such taxes that we would have been required to pay had there been no increase to the tax basis of the assets of Bakkt as a result of Bakkt having an election in effect under Section 754 of the Code for each taxable year in which an exchange of Bakkt Common Units for Class A common stock Common Stock occurs and had we not entered into the TRA. Such change will be calculated under the TRA without regard to any transfers of Bakkt Common Units or distributions with respect to such Bakkt Common Units before the exchange under the Exchange Agreement to which Section 743(b) or 734(b) of the Code applies. As of December 31, 2022 December 31, 2023, 22,475,871 25,952,197 Opco common units were exchanged for Class A common stock Common Stock. Based on the Company's history of taxable losses, the Company has concluded that it is not probable to expect cash tax payments in the foreseeable future and as such, no value has been recorded under the TRA.

Contractual Obligations and Commitments

The following is a summary of our significant contractual obligations and commitments as of December 31, 2022 December 31, 2023 (in thousands):

		Payments Due by Period					Payments Due by Period				
		Less		More			Less than 1 year	1-3 years	3-5 years	More than 5 years	Total
		than 1 year	1-3 years	3-5 years	than 5 years	Total					
Purchase obligations ⁽¹⁾	Purchase obligations ⁽¹⁾	\$2,250	\$15,500	\$ —	\$ —	\$17,750					
Future minimum operating lease payments ⁽²⁾	Future minimum operating lease payments ⁽²⁾	4,271	9,301	6,397	12,319	32,288					

Total contractual obligations	Total contractual obligations	6,521	24,801	6,397	12,319	50,038
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-91-

(1) Represents minimum commitment payments under a four-year cloud computing arrangement¹ arrangement and a separate five-year marketing partnership. In December 2023, we agreed to amend the cloud computing arrangement and extended the payment period for an additional year.
 (2) Represents rental payments under operating leases with remaining non-cancellable terms in excess of one year.

Additionally, we, through our loyalty business, had a purchasing card facility with a bank that we utilized for redemption purchases made from vendors as part of our loyalty redemption platform. Expenditures made using the purchasing card facility were payable monthly, were not subject to formula-based restrictions and did not bear interest if amounts outstanding were paid when due and in full. Among other covenants, the purchasing card facility required that we maintain a month-end cash balance of \$40.0 million. In January 2021, the purchasing card facility was extended to April 15, 2022 in order to facilitate a long-term agreement on more favorable terms for us. In April 2022, we further extended the maturity date of the purchasing card facility to August 12, 2022, to transition over to the purchasing card facility with Bank of America described below. The maturity date of the purchasing card facility was further extended as of August 12, 2022 to January 13, 2023. During September 2022 we paid off the majority of the remaining balance of the purchasing card facility. The purchasing card facility was closed during October 2022.

On April 7, 2022, we entered into a corporate card services agreement with Bank of America to provide a new purchasing card facility. Total borrowing capacity under the facility is \$35 million and there is no defined maturity date. Expenditures made using the purchasing card facility are payable monthly, are not subject to formula-based restrictions and

-75-

Table of Contents

do not bear interest if amounts outstanding are paid when due and in full. The purchasing card facility requires us to maintain a concentration account with the lender subject to a minimum liquidity maintenance requirement of \$7.0 million as collateral along with the accounts receivable of our subsidiary, within the loyalty business. Bakkt Holdings, Inc. serves as the guarantor on behalf of our subsidiary under the commercial purchasing card facility. We began using the purchasing card facility in August 2022.

In February 2024, Bank of America reduced our credit line associated with the purchasing card facility from \$35.0 million to \$15.0 million, increased the payment frequency and required us to pledge as collateral the amounts which were previously required to be maintained in the concentration account.

Non-GAAP Financial Measures

We use non-GAAP financial measures to assist in comparing our performance on a consistent basis for purposes of business decision-making by removing the impact of certain items that management believes do not directly reflect our core operations. We believe that presenting non-GAAP financial measures is useful to investors because it (a) provides investors with meaningful supplemental information regarding financial performance by excluding certain items that we believe do not directly reflect our core operations, (b) permits investors to view performance using the same tools that we use to budget, forecast, make operating and strategic decisions, and evaluate historical performance, and (c) otherwise provides supplemental information that may be useful to investors in evaluating our results.

We believe that the presentation of the following non-GAAP financial measures, when considered together with the corresponding GAAP financial measures and the reconciliations to those measures provided herein, provides investors with an additional understanding of the factors and trends affecting our business that could not be obtained absent these disclosures.

Adjusted EBITDA

We present Adjusted EBITDA as a non-GAAP financial measure.

We believe that Adjusted EBITDA provides relevant and useful information, which is used by management in assessing the performance of our business. Adjusted EBITDA is defined as earnings before interest, income taxes, depreciation, amortization, acquisition-related expenses, share-based and unit-based compensation expense, goodwill and intangible assets impairments, restructuring charges, changes in the fair value of our warrant liability and certain other non-cash non-

-92-

cash and/or non-recurring items that do not contribute directly to our evaluation of operating results and are not components of our core business operations. Adjusted EBITDA provides management with an understanding of earnings before the impact of investing and financing transactions and income taxes, and the effects of aforementioned items that do not reflect the ordinary earnings of our operations. This measure may be useful to an investor in evaluating our performance. Adjusted EBITDA is not a measure of our financial performance under GAAP and should not be considered as an alternative to net income (loss) or other performance measures derived in accordance with GAAP. Our definition of Adjusted EBITDA may not be comparable to similarly titled measures used by other companies.

Non-GAAP financial measures like Adjusted EBITDA have limitations, should be considered as supplemental in nature and are not meant as a substitute for the related financial information prepared in accordance with GAAP. The non-GAAP financial measures should be considered alongside other financial performance measures, including net loss and our other financial results presented in accordance with GAAP.

[Table of Contents](#)

The following table presents a reconciliation of net loss, the most directly comparable GAAP operating performance measure, to our Adjusted EBITDA for each of the periods indicated (in thousands):

	Successor		Predecessor		Year Ended December 31, 2023	Year Ended December 31, 2022		
	October 15, 2021		January 1, 2021 through October 14, 2021					
	Year Ended December 31, 2022	through December 31, 2021						
Net loss	Net loss	\$(1,989,934)	\$(164,827)	\$ (139,219)				
Depreciation and amortization	Depreciation and amortization	25,350	5,422	9,620				
Interest (income) expense		(1,877)	(11)	247				
Income tax (benefit) expense		(11,320)	11,751	(602)				
Interest income, net								
Income tax expense (benefit)								
EBITDA	EBITDA	(1,977,781)	(147,665)	(129,954)				
Acquisition-related expenses	Acquisition-related expenses	5,675	1,603	24,793				
Share-based and unit-based compensation expense	Share-based and unit-based compensation expense	32,114	45,914	33,877				
Cancellation of common units	Cancellation of common units	(185)	(192)	—				
(Gain) loss from change in fair value of warrant liability		(16,638)	79,373	—				
Loss (gain) from change in fair value of warrant liability								
Goodwill and intangible assets impairments	Goodwill and intangible assets impairments	1,822,089	—	—				

Impairment of long-lived assets	Impairment of long-lived assets	11,494	1,196	3,598
Restructuring expenses	Restructuring expenses	2,336	—	—
ICE transition services expense		1,168	617	—
Gain on extinguishment of software license liability		—	(1,301)	—
Non-recurring bitcoin sale income, net		—	—	(1,024)
Transition services expense				
Adjusted EBITDA loss	Adjusted EBITDA loss	\$ (119,728)	\$ (20,455)	\$ (68,709)

Adjusted EBITDA loss for the year ended December 31, 2022 increased December 31, 2023 decreased by \$30.6 million \$25.8 million, or 34.3% 21.6%, as compared to the combined 2021 period. year ended December 31, 2022. The increase decrease was primarily due to a \$33.9 million increase \$15.6 million decrease in compensation and benefits resulting from an increase in headcount to support the projected growth in our business, expense, a \$14.8 million increase in insurance premiums and occupancy costs, a \$4.3 million increase in audit, tax and legal professional services fees and a \$3.8 million increase in hardware and software license fees. The increases in these expenses were partially offset by the increases in revenue of \$15.1 million and a reduction of marketing expenses of \$10.1 million, and a \$1.3 million reduction in professional services fees.

Critical Accounting Policies and Estimates

Our consolidated financial statements are prepared in accordance with GAAP, which requires us to make estimates and apply judgments that affect the reported amounts. In our notes to the audited consolidated financial statements, we describe the significant accounting policies used in preparing the consolidated financial statements. Our management has discussed the development, selection, and disclosure of our critical accounting policies and estimates with the Audit Committee of our Board of Directors. The following items require significant estimation or judgement:

Going Concern

At each reporting period, in accordance with Accounting Standards Codification ("ASC") 205-40, Going Concern, we evaluate whether there are conditions or events that raise substantial doubt about our ability to continue as a going concern within one year after the date the financial statements are issued. In accordance with ASC 250-40, our initial

-93-

evaluation can only include management's plans that have been fully implemented as of the issuance date. Operating forecasts for new products/markets cannot be considered in the initial evaluation as those product/market launches have not been fully implemented.

Accordingly, our evaluation entails analyzing prospective fully implemented operating budgets and forecasts for expectations of our cash needs and comparing those needs to the current cash and cash equivalent balances. This evaluation initially does not take into consideration the potential mitigating effect of management's plans that have not been fully implemented as of the date the financial statements are issued. When substantial doubt exists under this methodology, we evaluate whether the mitigating effect of its plans sufficiently alleviates substantial doubt about our ability to continue as a going concern. The mitigating effect of management's plans, however, is only considered if both (1) it is probable that the plans will be effectively implemented within one year after the date that the financial statements are issued, and (2) it is probable that the plans, when implemented, will mitigate the relevant conditions or events that raise substantial doubt about the entity's ability to continue as a going concern within one year after the date that these consolidated financial statements are issued.

Business Combinations

We account for our business combinations using the acquisition accounting method, which requires us to determine the fair value of identifiable assets acquired and liabilities assumed, including any contingent consideration, to properly allocate the purchase price to the individual assets acquired and liabilities assumed and record any residual purchase price as goodwill in accordance with the Financial Accounting Standards Board ("FASB") Accounting Standards Codification ("ASC") Topic 805, *Business Combinations*. We identify and attribute fair values and estimated lives to the intangible assets acquired and allocate the total cost of an acquisition to the underlying net assets based on their respective estimated fair values. Determining the fair value of assets acquired and liabilities assumed requires management's judgment and involves the use of significant estimates, including projections of future cash inflows and outflows, discount rates and asset lives. These determinations will affect the amount of amortization expense recognized in future periods. We

-77-

Table Contingent consideration is initially recorded at its fair value at the acquisition date and is revalued every financial reporting date thereafter. Adjustments to contingent consideration liabilities after the completion of Contents

acquisition accounting are recorded in the consolidated statement of operations. We base our fair value estimates on assumptions we believe are reasonable but recognize that the assumptions are inherently uncertain.

For business combinations effected through a common control transaction, we measure the recognized net assets of the acquiree at the carrying amounts of the net assets previously recognized by our related party. We reflect the operations of entities acquired through a common control transaction in our financial statements as of the first date in the reporting period or as of the date that the entity was acquired by our related party, as applicable.

If the initial accounting for the business combination has not been completed by the end of the reporting period in which the business combination occurs, provisional amounts are reported to present information about facts and circumstances that existed as of the acquisition date. Once the measurement period ends, which in no case extends beyond one year from the acquisition date, revisions to the accounting for the business combination are recorded in earnings.

All acquisition-related costs, other than the costs to issue debt or equity securities, are accounted for as expenses in the period in which they are incurred.

Goodwill and Other Intangible Assets

Goodwill and intangible assets that have indefinite useful lives are accounted for in accordance with ASC 350, *Intangibles — Goodwill and Other*. We allocate the cost of an acquired entity to the assets acquired and liabilities assumed based on their estimated fair values at the date of acquisition. The excess of the acquisition consideration transferred over the fair value of the net assets acquired, including other intangible assets, is recorded as goodwill. Goodwill is tested for impairment at the reporting unit level, and we are organized and operate as a single reporting unit. Goodwill and indefinite-lived intangible assets are tested at least annually or more frequently when events or circumstances occur that indicate that it is more likely than not that an impairment has occurred. In assessing goodwill and intangible assets for impairment, we first assess qualitative factors to determine whether it is necessary to perform the quantitative impairment test. In the qualitative assessment, we may consider factors such as economic conditions, industry and market conditions and developments, overall financial performance and other relevant entity-specific events in determining whether it is more likely than not that the fair value of the reporting unit is less than the carrying amount. Should we conclude that it is more

-94-

likely than not that the recorded goodwill and intangible assets amounts have been impaired, we would perform the impairment test. An impairment loss is recognized in earnings if the estimated fair value of a reporting unit or indefinite lived intangible asset is less than the carrying amount of the reporting unit or intangible asset. Significant judgment is applied when goodwill and intangible assets are assessed for impairment.

Identifiable intangible assets with finite lives are amortized on a straight-line basis over their estimated useful lives and are also reviewed at least annually for impairment or more frequently if conditions exist that indicate that an asset may be impaired.

We recorded impairment of goodwill and other intangible assets of \$60.5 million and \$1,822.1 million during the **year** ended **December 31, 2022** **December 31, 2023** and **December 31, 2022**, respectively. See Note 5 to our audited consolidated financial statements for additional disclosures related to the impairment of goodwill and other intangible assets. The carrying value of our tradename intangible asset was equal to its fair value and our single reporting unit had no cushion on its goodwill impairment analysis immediately after the impairment was recorded. Therefore if there are further delays in our ability to execute on our strategy, or negative deviations from the budgets utilized in these analyses or further declines in our market capitalization further impairment of our assets is possible.

Crypto Revenue Recognition

Bakkt Crypto offers customers the ability to purchase or sell certain crypto on its platform. Bakkt Crypto partners with a number of liquidity providers to provide customers with immediate liquidity and access to crypto. Bakkt Crypto settles with the liquidity partners on a daily basis. The contract with a customer is created when a customer agrees to execute a trade on our platform. Each customer purchase transaction includes multiple performance obligations including execution, custody of the customer's purchased crypto, and material rights for ongoing custody beyond the original contractual period. Customer sales only carry a single performance obligation which is execution of the trade. We did not record any impairment charges related to the sale of customer crypto associated with delisted crypto to goodwill and intangible assets. We did not consider the sale of customer crypto associated with delisted crypto to be revenue in the context of our contracts with customers. We own the crypto during the period of time between the customer transaction and the liquidity provider settlement and accordingly act as a principal in the arrangement. We report the gross proceeds of a sale to a customer or liquidity provider, including a spread on the market price of the crypto as revenue. Substantially all of the consideration is allocated to the execution performance obligation, which is satisfied when we record the transaction to the customer's account. Custody services are rendered over the initial contract term which we have concluded is one day. Customers have a material right to obtain additional custody services at no cost by not selling the purchased crypto, which is recognized over the period that the assets are held on our platform. The consideration allocated to the custody and material right performance obligations is estimated on the basis of a cost plus a margin approach and was not material to the year ended December 31, 2023.

Judgment is required in determining whether the Company is the principal or the agent in our contracts with customers. We have determined that we are the principal in transactions with customers as we control the crypto prior to its delivery to the customer and we are primarily responsible for the delivery of the crypto to the customer. Accordingly, revenue and costs associated with Bakkt Crypto's services are presented gross in our consolidated statement of operations.

Where applicable, we make payments to introducing brokers based on the transaction volume from **October 15, 2021** through **December 31, 2021** resulting customer volume. These payments are expensed in the period they are incurred and **January 1, 2021** through **October 14, 2021** are included in "Clearing, Execution and Brokerage Fees" on

the consolidated statement of operations.

Loyalty Redemption Platform Revenue Recognition

We host, operate and maintain a loyalty redemption platform connecting loyalty programs to ecommerce merchants allowing loyalty point holders to redeem a spectrum of loyalty currencies for crypto, merchandise and services. Our customer in these arrangements is generally the loyalty program sponsor (our client). Our contracts related to our

-78-

Table of Contents

loyalty redemption platform consist of two performance obligations: (1) access to our SaaS-based redemption platform and customer support services and (2) facilitation of order fulfillment services. We are the principal related to providing access

-95-

to our redemption platform. We are acting as the agent to facilitate order fulfillment services on behalf of the loyalty program sponsor. Revenues generated from our loyalty redemption platform are included in "Net revenues" include the following:

- **Platform subscription fees:** Monthly fixed fee charged to clients to access the redemption platform and receive customer support services. We recognize revenue for these fees on a straight-line basis over the related contract term as the client receives benefits evenly throughout the term of the contract. These fees are allocated to our performance obligation to provide access to our redemption platform, and thus are recognized on a gross basis. Revenue from our platform subscription fees is included in "Subscription and services revenue" in the disaggregation of revenue table by service type in Note 3 to our audited consolidated financial statements.
- **Transaction fees:** Transaction fees are earned for most transactions processed through our platform. These fees are allocated to our performance obligation to provide order placement services on behalf of the loyalty program sponsor, and therefore are recognized net of the related redemption cost. We allocate transaction fees to the period in which the related transaction occurs. Revenue from our transaction fees is included in "Transaction revenue, net" in the disaggregation of revenue table by service type in Note 3 to our audited consolidated financial statements.
- **Revenue share fees:** We are entitled to revenue share fees in the form of rebates from third-party commerce merchants and other clients which provide services facilitating redemption order fulfillment. We allocate revenue share fees to the period in which the related transaction occurs. Revenue from our revenue share fees is included in "Transaction revenue, net" in the disaggregation of revenue table by service type in Note 3 to our audited consolidated financial statements.
- **Service fees:** We earn fees for certain software development activities associated with the implementation of new clients on our loyalty redemption platform and other development activities if a client requests that we customize certain features and functionalities for their loyalty program. We also earn fees from providing call center services to clients. We recognize service fees as revenue on a straight-line basis, beginning when the internally developed software resulting from such implementation or other development activities are operational in our platform over the longer of the remaining anticipated client life and 3 years, which represents the estimated useful life of our internally developed software. Implementation and development service fees are generally billed when the implementation and development activities are performed. We recognize deferred revenue when all such fees are billed. Revenue from our services fees is included in "Subscription and services revenue" in the disaggregation of revenue table by service type in Note 3 to our audited consolidated financial statements.

Deferred Revenue

Deferred revenue includes amounts invoiced prior to us meeting the criteria for revenue recognition. We invoice clients for service fees at the time the service is performed, and such fees are recognized as revenue over time as we satisfy our performance obligation. The portion of deferred revenue to be recognized in the succeeding twelve-month period is recorded as current deferred revenue, and the remaining portion is recorded as non-current deferred revenue. We have determined that these arrangements do not contain a significant financing component, and therefore the transaction price is not adjusted.

Warrants

We account for our ordinary share warrants in accordance with applicable accounting guidance provided in ASC Topic 815, *Derivatives and Hedging—Contracts in Entity's Own Equity* ("ASC Topic 815"), as either derivative liabilities or as equity instruments depending on the specific terms of the warrant agreement. We classify as equity any equity-linked contracts that (1) require physical settlement or net-share settlement or (2) give us a choice of net-cash settlement or

-79-

Table of Contents

settlement in our own shares (physical settlement or net-share settlement). We classify as assets or liabilities any equity-linked contracts that (1) require net-cash settlement (including a requirement to net-cash settle the contract if an event occurs and if that event is outside our control) or (2) give the counterparty a choice of net-cash settlement or settlement in

-96-

shares (physical settlement or net-share settlement). All public and private placement warrants issued by us were deemed to qualify for liability classification.

Impairment of Long-Lived Assets

Our long-lived assets are reviewed for impairment whenever events or changes in circumstances indicate that the carrying value of the asset may not be recoverable. We also evaluate the period of depreciation and amortization of long-lived assets to determine whether events or circumstances warrant revised estimates of useful lives. When indicators of impairment are present, we determine the recoverability of our long-lived assets by comparing the carrying value of our long-lived assets to future undiscounted net cash flows expected to result from the use of the assets and their eventual disposition. If the estimated future undiscounted cash flows demonstrate the long-lived assets are not recoverable, an impairment loss would be calculated based on the excess of the carrying amounts of the long-lived assets over their fair value.

We recorded impairment of goodwill and other intangible assets of \$30.3 million and \$11.5 million during the years ended December 31, 2023 and December 31, 2022, respectively. See Note 5 and 6 to our audited consolidated financial statements for additional disclosures related to impairment of long-lived assets.

Unit-Based Compensation

The Successor period unit-based Unit-based compensation expense relates to the replacement incentive units and phantom units ("participation" units) granted during prior to the Predecessor period VIH Business Combination on October 15, 2021, that were issued to employees as purchase consideration. The replacement incentive units and participation units were measured at fair value on the Closing Date, and we recognize expense in "Compensation and benefits" in the accompanying consolidated statements of operations and comprehensive loss over the requisite service period. Additionally, we recognize variable compensation expense for liability-classified participation units based on changes to the fair value of the awards at each reporting date. We elect to account for forfeitures as they occurred. See Note 11 to our audited consolidated financial statements for additional disclosures related to unit-based compensation.

The Predecessor period unit-based compensation expense related to incentive units and participation units granted to employees and was measured at fair value on the date of grant and recognized as expense in "Compensation and benefits" in the accompanying consolidated statements of operations and comprehensive loss over the requisite service period, subject to acceleration if certain performance or market conditions were met. Additionally, we recognized variable compensation expense for liability-classified participation units based on changes to the fair value of the awards at each reporting date. The Predecessor elected to account for forfeitures as they occurred. See Note 11 to our audited consolidated financial statements for additional disclosures related to unit-based compensation.

Use of Estimates

The preparation of consolidated financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the amounts reported in our audited consolidated financial statements and accompanying notes. We base our estimates and assumptions on various judgments that we believe to be reasonable under the circumstances. The significant estimates and assumptions that affect the financial statements may include, but are not limited to, going concern, those that are related to income tax valuation allowances, useful lives of intangible assets and property, equipment and software, fair value of financial assets and liabilities, determining provision for doubtful accounts, credit losses, valuation of acquired tangible and intangible assets, the impairment of intangible assets and goodwill, and fair market value of Bakkt common units, incentive units and participation units. Actual results and outcomes may differ from management's estimates and assumptions and such differences may be material to our audited consolidated financial statements.

-80-

Table of Contents

Recently Issued and Adopted Accounting Pronouncements

Recently issued and adopted accounting pronouncements are described in Note 2 to our audited consolidated financial statements.

Item 7A. Qualitative And Quantitative Disclosures About Market Risk

Not applicable.

-81- -97-

Table of Contents

Item 8. Financial Statements And Supplementary Data

Index to Consolidated Financial Statements

	Page
Report of Independent Registered Public Accounting Firm (PCAOB ID: 42)	83 98
Consolidated Balance Sheets	84 100
Consolidated Statements of Operations	85 101
Consolidated Statements of Comprehensive Loss	86 102
Consolidated Statements of Changes in Stockholders' Equity	87
Consolidated Statements of Changes in Members' Equity and Mezzanine Equity	88 103
Consolidated Statements of Cash Flows	89 104
Notes to the Consolidated Financial Statements	90 105

-82-

-98-

Table of Contents

Report of Independent Registered Public Accounting Firm

To the Stockholders and the Board of Directors of Bakkt Holdings, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Bakkt Holdings, Inc. (the Company) as of December 31, 2022 December 31, 2023 and 2021, 2022, and the related consolidated statements of operations, comprehensive loss, changes in stockholders' equity and cash flows for each of the years ended December 31, 2022 and for two years in the period October 15, 2021 to December 31, 2021 ("the Successor") and the related consolidated statements of operations, comprehensive loss, changes in members' equity and mezzanine equity and cash flows for the period January 1, 2021 to October 14, 2021 ("the Predecessor") ended December 31, 2023 and the related notes (collectively referred to as the "consolidated financial statements"). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company at December 31, 2022 December 31, 2023 and 2021, 2022, and the results of its operations and its cash flows for each of the Successor and Predecessor periods, two years in the period ended December 31, 2023, in conformity with U.S. generally accepted accounting principles.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Ernst & Young LLP

We have served as the Company's auditor since 2018.

Atlanta, GA

March 24, 2023 25, 2024

Bakkt Holdings, Inc.
Consolidated Balance Sheets
(in thousands, except **unit share** data)

		Successor			
		As of December 31, 2022	As of December 31, 2021		
		As of December 31, 2023		As of December 31, 2023	As of December 31, 2022
Assets	Assets				
Current assets:	Current assets:				
Current assets:	Current assets:				
Cash and cash equivalents	Cash and cash equivalents				
Cash and cash equivalents	Cash and cash equivalents	\$ 98,332	\$ 391,364		
Restricted cash	Restricted cash	16,500	16,500		
Customer funds	Customer funds	591	551		
Available-for-sale securities	Available-for-sale securities	141,062	—		
Accounts receivable, net	Accounts receivable, net	25,306	18,142		
Prepaid insurance	Prepaid insurance	22,822	32,206		
Safeguarding asset for crypto	Safeguarding asset for crypto	15,792	—		
Other current assets	Other current assets	6,060	4,784		
Total current assets	Total current assets	326,465	463,547		
Property, equipment and software, net	Property, equipment and software, net	19,744	6,121		
Goodwill	Goodwill	15,852	1,527,118		
Intangible assets, net	Intangible assets, net	55,833	388,469		
Deposits with clearinghouse	Deposits with clearinghouse	15,150	15,151		
Other assets	Other assets	22,458	13,879		
Total assets	Total assets	\$ 455,502	\$ 2,414,285		
Liabilities and stockholders' equity	Liabilities and stockholders' equity				
Current liabilities:	Current liabilities:				
Current liabilities:	Current liabilities:				
Accounts payable and accrued liabilities	Accounts payable and accrued liabilities				

Accounts payable and accrued liabilities			
Accounts payable and accrued liabilities	Accounts payable and accrued liabilities	\$ 66,787	\$ 64,090
Customer funds payable	Customer funds payable	591	551
Deferred revenue, current	Deferred revenue, current	3,972	4,629
Due to related party	Due to related party	1,168	617
Safeguarding obligation for crypto	Safeguarding obligation for crypto	15,792	—
Other current liabilities	Other current liabilities	3,819	3,717
Total current liabilities	Total current liabilities	92,129	73,604
Deferred revenue, noncurrent	Deferred revenue, noncurrent	3,112	4,819
Warrant liability	Warrant liability	785	17,424
Deferred tax liabilities, net		—	11,593
Other noncurrent liabilities	Other noncurrent liabilities	23,402	12,674
Total liabilities	Total liabilities	119,428	120,114
Commitments and contingencies (Note 14)	Commitments and contingencies (Note 14)	Commitments and contingencies (Note 14)	
Stockholders' equity:	Stockholders' equity:		
Class A common stock (\$0.0001 par value, 750,000,000 shares authorized, 80,926,843 shares issued and outstanding as of December 31, 2022 and 57,164,388 shares issued and outstanding as of December 31, 2021)	8	6	
Class V common stock (\$0.0001 par value, 250,000,000 shares authorized, 183,482,777 shares issued and outstanding as of December 31, 2022 and 206,271,792 shares issued and outstanding as of December 31, 2021)	19	21	
Class A common stock (\$0.0001 par value, 750,000,000 shares authorized, 94,845,942 shares issued and outstanding as of December 31, 2023 and 80,926,843 shares issued and outstanding as of December 31, 2022)			
Class A common stock (\$0.0001 par value, 750,000,000 shares authorized, 94,845,942 shares issued and outstanding as of December 31, 2023 and 80,926,843 shares issued and outstanding as of December 31, 2022)			

Class A common stock (\$0.0001 par value, 750,000,000 shares authorized, 94,845,942 shares issued and outstanding as of December 31, 2023 and 80,926,843 shares issued and outstanding as of December 31, 2022)

Class V common stock (\$0.0001 par value, 250,000,000 shares authorized, 180,001,606 shares issued and outstanding as of December 31, 2023 and 183,482,777 shares issued and outstanding as of December 31, 2022)

Additional paid-in capital	Additional paid-in capital	772,973	566,766
Accumulated other comprehensive loss	Accumulated other comprehensive loss	(290)	(55)
Accumulated deficit	Accumulated deficit	(676,447)	(98,342)
Total stockholders' equity	Total stockholders' equity	96,263	468,396
Noncontrolling interest	Noncontrolling interest	239,811	1,825,775
Total equity	Total equity	336,074	2,294,171
Total liabilities and stockholders' equity	Total liabilities and stockholders' equity	\$ 455,502	\$2,414,285

The accompanying notes are an integral part of these consolidated financial statements

-84- -100-

Bakkt Holdings, Inc.
Consolidated Statements of Operations
(in thousands, except per share data)

	Successor		Predecessor	
	October 15, 2021			
	Year Ended December 31, 2022	through December 31, 2021	January 1, 2021 through October 14, 2021	
Revenues:				
Net revenues (includes related party net revenues of \$42 and \$71, respectively, and affiliate net revenues of \$136) ⁽¹⁾	\$ 54,567	\$ 11,481	\$	27,956
Operating expenses:				
Compensation and benefits	139,049	62,180	91,275	
Professional services	11,483	3,034	5,175	
Technology and communication	17,079	3,056	10,384	
Selling, general and administrative	35,414	8,521	20,309	
Acquisition-related expenses	5,675	1,603	24,793	

Depreciation and amortization	25,350	5,422	9,620
Related party expenses (affiliate in Predecessor period) ⁽¹⁾	1,168	617	1,484
Goodwill and intangible assets impairments	1,822,089	—	—
Impairment of long-lived assets	11,494	1,196	3,598
Restructuring expenses	2,336	—	—
Other operating expenses	2,343	398	1,379
Total operating expenses	2,073,480	86,027	168,017
Operating loss	(2,018,913)	(74,546)	(140,061)
Interest income (expense), net	1,877	11	(247)
Gain (loss) from change in fair value of warrant liability	16,638	(79,373)	—
Other income (expense), net	(856)	832	487
Loss before income taxes	(2,001,254)	(153,076)	(139,821)
Income tax benefit (expense)	11,320	(11,751)	602
Net loss	(1,989,934)	(164,827)	\$ (139,219)
Less: Net loss attributable to noncontrolling interest	(1,411,829)	(120,832)	
Net loss attributable to Bakkt Holdings, Inc.	\$ (578,105)	\$ (43,995)	
Net loss per share attributable to Class A common stockholders:			
Basic	\$ (8.12)	\$ (0.81)	(2)
Diluted	\$ (8.12)	\$ (0.81)	(2)

(1) As a result of the VIH Business Combination, ICE and its affiliates are no longer our affiliates. Refer to Note 8 for our related party disclosures.

(2) Basic and diluted loss per share is not presented for the Predecessor period due to lack of comparability with the Successor periods.

	Year Ended December 31, 2023	Year Ended December 31, 2022
Revenues:		
Crypto services	\$ 726,988	\$ 1,745
Loyalty services, net	53,148	54,479
Total revenues	780,136	56,224
Operating expenses:		
Crypto costs (See Note 2)	718,511	1,657
Execution, clearing and brokerage fees	3,772	—
Compensation and benefits	102,042	139,049
Professional services	10,382	11,483
Technology and communication	20,837	17,079
Selling, general and administrative	33,385	35,414
Acquisition-related expenses	4,299	5,675
Depreciation and amortization	13,932	25,350
Related party expenses	3,902	1,168
Goodwill and intangible assets impairments	60,499	1,822,089
Impairment of long-lived assets	30,265	11,494
Restructuring expenses	4,608	2,336
Other operating expenses	1,592	2,343
Total operating expenses	1,008,026	2,073,480
Operating loss	(227,890)	(2,018,913)
Interest income, net	4,338	1,877
(Loss) gain from change in fair value of warrant liability	(1,571)	16,638
Other expense, net	(245)	(856)
Loss before income taxes	(225,368)	(2,001,254)
Income tax (expense) benefit	(444)	11,320
Net loss	(225,812)	(1,989,934)
Less: Net loss attributable to noncontrolling interest	(150,958)	(1,411,829)

Net loss attributable to Bakkt Holdings, Inc.	\$ (74,854)	\$ (578,105)
Net loss per share attributable to Class A common stockholders:		
Basic	\$ (0.84)	\$ (8.12)
Diluted	\$ (0.84)	\$ (8.12)

The accompanying notes are an integral part of these consolidated financial statements.

-85- -101-

Bakkt Holdings, Inc.
Consolidated Statements of Comprehensive Loss
(in thousands)

		Successor	Predecessor		
		October 15, 2021	January 1, 2021		
		Year Ended December 31, 2022	through December 31, 2022	Year Ended December 31, 2021	through October 14, 2021
Year Ended December 31, 2023				Year Ended December 31, 2023	Year Ended December 31, 2022
Net loss	Net loss	\$(1,989,934)	\$(164,827)	\$ (139,219)	
Currency translation adjustment, net of tax	Currency translation adjustment, net of tax	(850)	(259)	248	
Unrealized gains on available-for- sale securities, net of tax	Unrealized gains on available-for- sale securities, net of tax	59	—	—	
Comprehensive loss	Comprehensive loss	\$(1,990,725)	\$(165,086)	\$ (138,971)	
Comprehensive loss attributable to noncontrolling interest	Comprehensive loss attributable to noncontrolling interest	(1,412,385)	(121,036)		
Comprehensive loss attributable to Bakkt Holdings, Inc.	Comprehensive loss attributable to Bakkt Holdings, Inc.	<u>\$ (578,340)</u>	<u>\$ (44,050)</u>		

The accompanying notes are an integral part of these consolidated financial statements.

-86- -102-

Bakkt Holdings, Inc.
Consolidated Statements of Changes in Stockholders' Equity (Successor)
(in thousands, except share data)

	Accumulated												Total Mezzanine Equity	
	Class A		Class V		Class B		Additional		Other		Total			
	Common Stock	Shares	Common Stock	Shares	Ordinary Shares	Capital	Accumulated Deficit	Comprehensive Loss	Stockholders' Equity	Noncontrolling Interest	Total Equity	Class A		
	Shares	\$	Shares	\$	Shares	\$						Shares	\$	
Balance as of October 15, 2021	—	—	—	—	5,184,300	\$ 1	\$ (54,347)	\$ (54,346)	\$ (54,346)	\$ (54,346)	20,737,202	\$ 207,372	\$ 207,372	
Redemption of Class A ordinary shares	—	—	—	—	—	—	—	—	—	—	(8,452,042)	(84,530)	(84,530)	
Conversion of Class A ordinary shares and Class B ordinary shares into Class A common stock	17,469,460	2	—	—	(5,184,300)	(1)	122,840	—	—	122,841	—	122,841	(12,285,160)	(122,842)
Issuance of common stock to PIPE investors, net of issuance costs	32,500,000	3	—	—	—	—	311,997	—	—	312,000	—	312,000	—	—
Conversion of Opco Class A, Class B, and Class C voting units into Class V common stock	—	—	189,933,286	19	—	—	—	—	19	1,796,750	1,796,769	—	—	—
Issuance of Class V common stock for Opco incentive units	—	—	17,473,362	2	—	—	—	—	2	107,877	107,879	—	—	—
Share-based compensation	—	—	—	—	—	—	1,022	—	—	1,022	—	1,022	—	—
Unit-based compensation	—	—	—	—	—	—	—	—	—	46,786	46,786	—	—	—
Forfeiture and cancellation of common units	—	—	(1,134,856)	—	—	—	—	—	—	(4,602)	(4,602)	—	—	—
Exercise of warrants	7,194,928	1	—	—	—	—	130,907	—	—	130,908	—	130,908	—	—
Currency translation adjustment, net of tax	—	—	—	—	—	—	—	(55)	(55)	(204)	(259)	—	—	—
Net loss	—	—	—	—	—	—	(43,995)	—	(43,995)	(120,832)	(164,827)	—	—	—

	Accumulated												Other Comprehensive Income (Loss)	
	Class A		Class V		Additional		Paid-in Capital		Accumulated Deficit		Comprehensive Income (Loss)			
	Common Stock	Shares	Common Stock	Shares	Capital		Deficit		Income	Deficit				
	Shares		Shares											
Balance as of December 31, 2021	Balance as of December 31, 2021	57,164,388	\$ 6	206,271,792	\$ 21	—	\$ 566,766	\$ (98,342)	\$ (55)	\$ 468,396	\$ 1,825,775	\$ 2,294,171	—	
Balance as of December 31, 2021	Share-based compensation	—	—	—	—	—	31,557	—	—	31,557	—	31,557	—	
Balance as of December 31, 2021	Unit-based compensation	—	—	—	—	—	—	—	—	—	3,847	3,847	—	
Balance as of December 31, 2021	Forfeiture and cancellation of common units	—	—	(313,144)	—	—	—	—	—	—	(185)	(185)	—	
Balance as of December 31, 2021	Exercise of warrants	221	—	—	—	—	2	—	—	2	—	2	—	

Shares issued upon vesting of share-based awards, net of tax withholding	Shares issued upon vesting of share-based awards, net of tax withholding	1,286,363	—	—	—	(2,586)	—	—	(2,586)	—	—	—
Exchange of Class V shares for Class A shares	Exchange of Class V shares for Class A shares	22,475,871	2	(22,475,871)	(2)	—	—	177,241	—	—	177,241	(177,241)
Increase in deferred tax liability from step-up tax basis related to exchanges of Opco common units	Increase in deferred tax liability from step-up tax basis related to exchanges of Opco common units	—	—	—	—	(7)	—	—	(7)	—	(7)	—
Currency translation adjustment, net of tax	Currency translation adjustment, net of tax	—	—	—	—	—	—	(254)	(254)	(596)	(850)	—
Unrealized gains on available-for-sale securities	Unrealized gains on available-for-sale securities	—	—	—	—	—	—	19	19	40	59	—
Net loss	Net loss	—	—	—	—	—	(578,105)	—	(578,105)	(1,411,829)	(1,989,934)	—
Balance as of December 31, 2022	Balance as of December 31, 2022	80,926,843	\$ 8	183,482,777	19	—	\$ 772,973	\$ (676,447)	\$ (290)	\$ 96,263	\$ 239,811	\$ 336,074
Share-based compensation												
Unit-based compensation												
Forfeiture and cancellation of common units												
Shares issued upon vesting of share-based awards, net of tax withholding												
Shares issued upon vesting of participation units, net of tax withholding												

Shares issued in connection with Apex acquisition	
Exchange of Class V shares for Class A shares	
Currency translation adjustment, net of tax	
Unrealized gains on available-for-sale securities	
Net loss	
Balance as of December 31, 2023	

The accompanying notes are an integral part of these consolidated financial statements.

-87-

Bakkt Holdings, Inc.
Consolidated Statements of Changes in Members' Equity and Mezzanine Equity (Predecessor)
(in thousands, except share data)

											Total		Member's Equity	Incentive units	Total Mezzanine Equity	
	Class A Voting Units		Class B Voting Units		Class B Warrant		Class C Voting Units		Class C Warrant		Accumulated Deficit	Accumulated Other Comprehensive Income				
	Units	\$	Units	\$	Warrants	\$	Units	\$	Warrants	\$						
Balance as of December 31, 2020	400,000,000		2,613	182,500,000	182,500	—	5,426	270,270,270	310,104	—	(112,504)	191	388,330	—	21,452	21,452
Issuance of Class A voting units	—	185	—	—	—	—	—	—	—	—	—	—	185	—	—	—
Unit-based incentive compensation	—	—	—	—	—	—	—	—	—	—	—	—	—	—	26,538	26,538
Exercise of Class B warrant	—	—	9,953,454	5,426	—	(5,426)	—	—	—	—	—	—	—	—	—	—
Vesting of Class C warrant	—	—	—	—	—	—	—	—	—	969	—	—	969	—	—	—
Currency translation adjustment, net of tax	—	—	—	—	—	—	—	—	—	—	—	248	248	—	—	—
Net loss	—	—	—	—	—	—	—	—	—	—	(139,219)	—	(139,219)	—	—	—
Balance as of October 14, 2021	400,000,000	\$ 2,798	192,453,454	\$ 187,926	—	\$ —	270,270,270	\$ 310,104	—	\$ 969	\$ (251,723)	\$ 439	\$ 250,513	—	\$ 47,990	\$ 47,990

The accompanying notes are an integral part of these consolidated financial statements.

-88- -103-

Bakkt Holdings, Inc.
Consolidated Statements of Cash Flows
(in thousands)

	Successor		Predecessor	
	October 15, 2021			
	Year Ended December 31, 2022	through December 31, 2021		
Cash flows from operating activities:				
Net loss	\$ (1,989,934)	\$ (164,827)	\$ (139,219)	
Adjustments to reconcile net loss to net cash used in operating activities				
Depreciation and amortization	25,350	5,422	9,512	
Non-cash lease expense	2,679	249	946	
Share-based compensation expense	31,557	1,022	—	
Unit-based compensation expense	557	44,892	33,877	
Forfeiture and cancellation of common units	(185)	(192)	—	
Recognition of affiliate capital contribution	—	—	185	
Amortization of customer consideration asset	—	—	1,743	
Deferred income taxes	(11,594)	11,733	—	
Impairment of long-lived assets	11,494	1,196	3,598	
Goodwill and intangible assets impairments	1,822,089	—	—	
Loss on disposal of assets	3,834	—	—	
Loss on sale of shares of affiliate stock	—	—	63	
(Gain) loss from change in fair value of warrant liability	(16,638)	79,373	—	
(Gain) on extinguishment of software license liability	—	(1,301)	—	
Modification and vesting of Class C warrant	—	—	969	
Other	285	(129)	655	
Changes in operating assets and liabilities:				
Accounts receivable	(7,164)	(1,133)	(6,601)	
Prepaid insurance	9,384	(31,121)	(351)	
Deposits with clearinghouse	1	—	20,199	
Accounts payable and accrued liabilities	744	(19,728)	23,292	
Due to related party (affiliate in Predecessor period) ⁽¹⁾	551	(1,696)	457	
Deferred revenue	(2,364)	24	1,038	
Operating lease liabilities	4,150	(12)	(822)	
Customer funds payable	40	124	345	
Other assets and liabilities	(2,433)	(7,283)	(801)	
Net cash used in operating activities	(117,597)	(83,387)	(50,915)	
Cash flows from investing activities:				
Capitalized internal-use software development costs and other capital expenditures	(30,543)	(3,578)	(12,109)	
Purchase of available-for-sale securities	(306,593)	—	—	
Proceeds from the maturity of available-for-sale securities	165,175	—	—	
Proceeds from disposal of assets	—	—	8	
Proceeds from sale of shares of affiliate stock	—	—	1,759	
Cash acquired through business combination	—	30,837	—	
Net cash provided by (used in) investing activities:	(171,961)	27,259	(10,342)	
Cash flows from financing activities:				
Payment of finance lease liability	—	(404)	(97)	
Repurchase of redeemed Class A common stock	—	(84,530)	—	
Repurchase and retirement of Class A common stock	(2,586)	—	—	

Payment of deferred underwriting fee	—	(7,258)	—
Proceeds from the exercise of warrants	2	37,117	—
Proceeds from PIPE, net of issuance costs	—	312,000	—
Net cash provided by (used in) financing activities:	(2,584)	256,925	(97)
Effect of exchange rate changes.	(850)	(307)	248
Net increase (decrease) in cash, cash equivalents, restricted cash and customer funds	(292,992)	200,490	(61,106)
Cash, cash equivalents, restricted cash and customer funds at the beginning of the period	408,415	207,925	91,943
Cash, cash equivalents, restricted cash and customer funds at the end of the period	\$ 115,423	\$ 408,415	\$ 30,837
Supplemental disclosure of cash flow information:			
Cash paid for income taxes	\$ —	\$ —	\$ —
Non-cash operating lease right-of-use asset acquired	11,006	10,347	—
Supplemental disclosure of non-cash investing and financing activity:			
Issuance of Class A voting units in exchange of capital contribution	\$ —	\$ —	\$ 26
Capitalized internal-use software development costs and other capital expenditures included in accounts payable and accrued liabilities	3,900	1,929	1,809
Cashless exercise of private placement warrants	—	64,978	—
Reconciliation of cash, cash equivalents, restricted cash and customer funds to consolidated balance sheets:			
Cash and cash equivalents	\$ 98,332	\$ 391,364	\$ 13,911
Restricted cash	16,500	16,500	16,500
Customer funds	591	551	426
Total cash, cash equivalents, restricted cash and customer funds	\$ 115,423	\$ 408,415	\$ 30,837

(a) As a result of the VIH Business Combination, ICE and its affiliates are no longer our affiliates. Refer to Note 8 for our related party disclosures.

	Year Ended December 31, 2023	Year Ended December 31, 2022
Cash flows from operating activities:		
Net loss	\$ (225,812)	\$ (1,989,934)
Adjustments to reconcile net loss to net cash used in operating activities		
Depreciation and amortization	13,932	25,350
Change in fair value of contingent consideration liability	(2,952)	—
Non-cash lease expense	3,058	2,679
Share-based compensation expense	15,452	31,557
Unit-based compensation expense	1,309	557
Forfeiture and cancellation of common units	(13)	(185)
Deferred income taxes	—	(11,594)
Impairment of long-lived assets	30,265	11,494
Goodwill and intangible assets impairments	60,499	1,822,089
Loss on disposal of assets	75	3,834
Loss (gain) from change in fair value of warrant liability	1,571	(16,638)
Other	19	285
Changes in operating assets and liabilities:		
Accounts receivable	(10,036)	(7,164)
Prepaid insurance	9,773	9,384
Deposits with clearinghouse	14,991	1
Accounts payable and accrued liabilities	(7,985)	744
Due to related party	2,062	551
Deferred revenue	396	(2,364)
Operating lease liabilities	(3,029)	4,150
Customer funds payable	32,334	40
Other assets and liabilities	3,394	(2,433)

Net cash used in operating activities		(60,697)	(117,597)
Cash flows from investing activities:			
Capitalized internal-use software development costs and other capital expenditures		(9,433)	(30,543)
Purchase of available-for-sale securities		(61,829)	(306,593)
Proceeds from the maturity of available-for-sale securities		185,765	165,175
Acquisition of Bumped Financial, LLC		(631)	—
Acquisition of Apex Crypto LLC, net of cash acquired		(47,902)	—
Net cash provided by (used in) investing activities:		65,970	(171,961)
Cash flows from financing activities:			
Repurchase and retirement of Class A common stock		(2,634)	(2,586)
Proceeds from the exercise of warrants		—	2
Net cash used in financing activities:		(2,634)	(2,584)
Effect of exchange rate changes		436	(850)
Net increase (decrease) in cash, cash equivalents, deposits, restricted cash and customer funds		3,075	(292,992)
Cash, cash equivalents, deposits, restricted cash and customer funds at the beginning of the period		115,423	408,415
Cash, cash equivalents, deposits, restricted cash and customer funds at the end of the period	\$	118,498	\$ 115,423
Supplemental disclosure of cash flow information:			
Cash paid for income taxes	\$	239	\$ —
Non-cash operating lease right-of-use asset acquired		3,788	11,006
Supplemental disclosure of non-cash investing and financing activity:			
Capitalized internal-use software development costs and other capital expenditures included in accounts payable and accrued liabilities		478	3,900
Reconciliation of cash, cash equivalents, deposits, restricted cash and customer funds to consolidated balance sheets:			
Cash and cash equivalents	\$	52,882	\$ 98,332
Restricted cash		31,838	16,500
Customer funds		32,925	591
Deposits (See Note 6)	\$	853	\$ —
Total cash, cash equivalents, deposits, restricted cash and customer funds	\$	118,498	\$ 115,423

The accompanying notes are an integral part of these consolidated financial statements.

-90-104-

Notes to the Consolidated Financial Statements

1. Organization and Description of Business

Organization

VPC Impact Acquisition Holdings ("VIH") was a blank check company incorporated as a Cayman Islands exempted company on July 31, 2020. VIH was incorporated for the purpose of effecting a merger, share exchange, asset acquisition, share purchase, reorganization or similar business combination with one or more businesses or entities. VIH's sponsor was VPC Impact Acquisition Holdings Sponsor, LLC (the "Sponsor").

The registration statement for VIH's Initial Public Offering was declared effective on September 22, 2020. On September 25, 2020, VIH consummated the Initial Public Offering of 20,000,000 units (the "Units"), generating gross proceeds of \$200.0 million. Simultaneously with the closing of the Initial Public Offering, VIH consummated the sale of 6,000,000 warrants (the "private placement warrants") at a price of \$1.00 per private placement warrant in a private placement to the Sponsor, generating gross proceeds of \$6.0 million. On September 29, 2020, the underwriters notified VIH of their intention to partially exercise their over-allotment option on October 1, 2020. As such, on October 1, 2020, VIH consummated the sale of an additional 737,202 Units, at \$10.00 per Unit, and the sale of an additional 147,440 private placement warrants, at \$1.00 per private placement warrant, generating total gross proceeds of \$7.5 million.

Following the closing of the Initial Public Offering on September 25, 2020 and the partial exercise of the underwriter's over-allotment on October 1, 2020, an amount of \$207.4 million (\$10.00 per Unit) from the proceeds of the sale of the Units in the Initial Public Offering and the sale of the private placement warrants, net of transaction costs, was placed in a trust account (the "Trust Account").

On October 15, 2021 (the "Closing Date"), VIH and Bakkt Opco Holdings, LLC (then known as Bakkt Holdings, LLC, "Opco") and its operating subsidiaries consummated a business combination (the "VIH Business Combination") contemplated by the definitive Agreement and Plan of Merger entered into on January 11, 2021 (as amended, the "Merger Agreement"). In connection with the VIH Business Combination, VIH changed its name to "Bakkt Holdings, Inc." and changed its jurisdiction of incorporation from the Cayman Islands to the State of Delaware (the "Domestication").

Unless the context otherwise provides, "we," "us," "our," "Bakkt", the "Company" and like terms refer (i) prior to the Closing Date, to Opco and its subsidiaries and (ii) after the Closing Date, to Bakkt Holdings, Inc. and its subsidiaries, including Opco.

Immediately following the Domestication, we became organized in an umbrella partnership corporation, or "up-C," structure in which substantially all of our assets and business are held by Opco, and our only direct assets consist of common units in Opco ("Opco Common Units"), which are non-voting interests in Opco, and the managing member interest in Opco.

In connection with the VIH Business Combination, a portion of VIH shares were exchanged for cash for shareholders who elected to execute their redemption right. The remaining VIH shares were exchanged for newly issued shares of our Class A common stock. Additionally, all outstanding membership interests and rights to acquire membership interests in Opco were exchanged for Opco Common Units and an equal number of newly issued shares of our Class V common stock. The existing owners of Opco other than Bakkt are considered noncontrolling interests in the accompanying consolidated financial statements (the "financial statements"). Refer

On April 1, 2023 we completed the acquisition of 100% of the ownership interests of Apex Crypto LLC ("Apex Crypto") and subsequently changed the name of the legal entity to Note 4 for further discussion on the VIH Business Combination.

Our Class A common stock and warrants are listed on the New York Stock Exchange under the ticker symbols "BKKT" and "BKKT WS," respectively.

-91-

Bakkt Crypto Solutions, LLC ("Bakkt Crypto"), effective June 12, 2023.

Description of Business

We provide, or are working to provide, simplified solutions focused in the following areas:

Crypto

- **Custody.** Our institutional-grade qualified custody solution caters to more experienced market participants. Crypto that we custody is held primarily provided by our subsidiary, Bakkt Trust Company LLC ("Bakkt Trust"), a limited purpose trust company that is supervised by the New York State Department of Financial Services ("NYDFS") and governed by an independent Board of Managers. In connection to the acquisition of Apex Crypto, we acquired third-party custodial relationships with BitGo and Coinbase Custody, which are currently used by Bakkt Crypto for custody and coin transfers, where applicable. In addition, Bakkt Crypto also self-custodies select coins to facilitate consumer withdrawals.
- **Crypto Connect Trading.** Bakkt Marketplace, LLC ("Bakkt Marketplace") operates a Our platform provides consumers, businesses and institutions customers with the ability to buy, sell and store crypto in a simple, intuitive digital experience accessed via application programming interfaces ("APIs") or embedded web experience. We aim to enable businesses clients in various industries - such as fintechs, financial institutions and wallet providers - to provide their

-105-

customers with the ability to transact in crypto directly in their trusted environments.

- **WCrypto Rewards.** We are currently facilitate transactions in the process of enabling customers of all sizes to offer loyalty and rewards to their customers crypto assets listed in the form of table below.

Crypto Asset	Symbol
Bitcoin	BTC
Bitcoin Cash	BCH
Dogecoin	DOGE
Ethereum	ETH
Ethereum Classic	ETC
Litecoin	LTC
Shiba Inu	SHIB
USD Coin	USDC

Bakkt Trust's custody solution provides support to Bakkt Marketplace with respect to all crypto – either assets supported by earning crypto rewards, or by redeeming existing reward currencies, such as points or miles, into crypto.

- **Crypto Payouts.** We are in the process of enabling consumers to automatically invest a portion of payments into crypto. Crypto payouts allow for new cases (for instance, for gig economy or marketplace participants such as freelancers, content providers, and delivery workers to receive their wages in crypto).

Company. Additionally, until October 2, 2023, Bakkt Trust is a limited-purpose trust company that operates, operated, in conjunction with ICE, Intercontinental Exchange, Inc. ("ICE"), regulated infrastructure for trading, clearing, and custody services for physically-delivered bitcoin futures. futures (See Note 8 "Related Parties" below for a description of a recent delisting of certain Bakkt Bitcoin futures and option contracts by ICE Futures U.S., Inc. ("IFUS")). Bakkt Marketplace holds and Bakkt Crypto each hold a New York State virtual currency license (commonly referred to as a "BitLicense"), and money transmitter licenses from all states throughout the U.S. where such licenses are required for the operation of their business, and is both are registered as a money services business with the Financial Crimes Enforcement Network of the United States Department of the Treasury. Bakkt Trust's custody solution provides support.

As of December 31, 2023, we offer crypto services in the U.S., Latin America and Europe. We expect to Bakkt Marketplace continue to pursue new markets in the future by working with respect to Bitcoin and Ether functionality.our existing client base as well as targeting new clients.

Loyalty

- We offer a full spectrum of supplier content through configurable, white-label e-commerce storefronts that customers end users can make available to their customers when redeeming acquire via redemption of loyalty currencies. points. Our redemption solutions span catalog spans a variety of rewards categories including merchandise (such as Apple products and services), travel, gift cards and digital experiences. merchandise, including a unique Apple product and services storefront. Our travel solution offers a retail e-commerce booking platform with direct supplier integrations, as well as a U.S.-based call center for live-agent booking and servicing. Our platform provides a unified shopping experience that is configurable for companies built to seamlessly extend our customers' loyalty strategies and their programs. Capabilities include a mobile-first user experience for their loyalty programs. Our platform's functionality includes a multi-tier construct mobile-optimized user interface, numerous configurations to accommodate loyalty tiers, support diverse program needs, promotional campaign services, comprehensive fraud protection capabilities and a split-tender the ability to split payments platform to accept across both loyalty points and credit cards as a form of payment.cards.

2. Summary of Significant Accounting Policies

Basis of Presentation and Consolidation

As a result of the VIH Business Combination, we evaluated if VIH or Opcos was the predecessor for accounting purposes. In connection therewith, we considered the application of Rule 405 of Regulation C, the interpretive guidance of the staff of the SEC, including factors for registrants to consider in determining the predecessor, and analyzed the following: (1) the order in which the entities were acquired, (2) the size of the entities, (3) the fair value of the entities, (4)

-92-

the historical and ongoing management structure, and (5) how management discusses our business in this Form 10-K. In considering the foregoing principles of predecessor determination in light of our specific facts and circumstances, we determined that Opcos is the predecessor for accounting purposes. The financial statement presentation includes the financial statements of Opcos as "Predecessor" for periods prior to the Closing Date and the financial statements of the Company as "Successor" for the period after the Closing Date, including the consolidation of Opcos. Refer to Note 4 for further discussion on the VIH Business Combination.

The accompanying audited consolidated financial statements are prepared in accordance with United States generally accepted accounting principles ("U.S. GAAP") and include the accounts of the Company and our subsidiaries. All intercompany balances and transactions have been eliminated in consolidation. In addition, certain reclassifications of amounts previously reported have been made to the accompanying consolidated financial statements in order to conform to current presentation.

In the opinion of management, all adjustments (consisting of normal recurring accruals), considered necessary for a fair presentation have been included. The historical financial information is not necessarily indicative of our future results of operations, financial position, and cash flows.

-106-

Use of Estimates

The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the amounts reported in the financial statements and accompanying notes. We base our estimates and assumptions on historical experience and various other assumptions judgments that we believe to be reasonable under the circumstances. The significant estimates and assumptions that affect the financial statements may include, but are not limited to, those that are related to going concern, income tax valuation allowances, useful lives and fair value of intangible assets and property, equipment and software, fair value of financial assets and liabilities, determining provision for doubtful accounts, valuation of acquired tangible and intangible assets, and the impairment of intangible and long-lived assets and goodwill, as well as and fair market value of Opco common units, incentive units and participation units in the Predecessor period, stock-based awards. Actual results and outcomes may materially differ from management's estimates, estimates and assumptions and such differences may be material to our audited consolidated financial statements.

Liquidity and Going Concern

The accompanying audited consolidated financial statements are prepared on a going concern basis in accordance with U.S. GAAP. This presentation contemplates the realization of assets and the satisfaction of liabilities in the normal course of business and does not include any adjustments relating to the recoverability and classification of recorded asset amounts or the amounts and classification of liabilities that might result from the outcome of the uncertainties described below.

At each reporting period, in accordance with Accounting Standards Codification ("ASC") 205-40, Going Concern, we evaluate whether there are conditions or events that raise substantial doubt about our ability to continue as a going concern within one year after the date the financial statements are issued. In accordance with ASC 250-40, our initial evaluation can only include management's plans that have been fully implemented as of the issuance date. Operating forecasts for new products/markets cannot be considered in the initial evaluation as those product/market launches have not been fully implemented.

Accordingly, our evaluation entails analyzing prospective fully implemented operating budgets and forecasts for expectations of our cash needs and comparing those needs to the current cash and cash equivalent balances. This evaluation initially does not take into consideration the potential mitigating effect of management's plans that have not been fully implemented as of the date the financial statements are issued. When substantial doubt exists under this methodology, we evaluate whether the mitigating effect of its plans sufficiently alleviates substantial doubt about our ability to continue as a going concern. The mitigating effect of management's plans, however, is only considered if both (1) it is probable that the plans will be effectively implemented within one year after the date that the financial statements are issued, and (2) it is probable that the plans, when implemented, will mitigate the relevant conditions or events that raise substantial doubt about the entity's ability to continue as a going concern within one year after the date that these consolidated financial statements are issued.

Evaluation in conjunction with the issuance of the December 31, 2023 audited consolidated financial statements

In forecasting our expectation of cash needs for the initial ASC 205-40 evaluation, the crypto revenue growth projections exclude expansion to international retail crypto markets where such arrangements are not signed, as well as activation of new clients currently not live on our platform as of the date of release of these audited consolidated financial statements.

Substantial doubt was initially raised about our ability to continue as a going concern in connection with the filing of our Quarterly Report on Form 10-Q for the quarterly period ending September 30, 2023. At that time we determined management's plans were sufficient to alleviate the substantial doubt. We have incurred net losses and consumed cashflow from operations since our inception and incurred losses and consumed cash through the date of this filing in excess of our budgets, due to increased cash utilization in operations and lower realization of actual revenues. For the year ended December 31, 2023, we incurred a net loss of \$225.8 million and consumed \$60.7 million of cash in operations. The

-107-

Company has historically relied on its existing cash and available-for-sale securities portfolio to fund operations. As of December 31, 2023, we had \$52.9 million of available cash and cash equivalents that was not restricted or required to be held for regulatory capital (see Note 13) and \$17.4 million in available-for-sale securities. We do not have any long-term debt to service but have commitments under long-term cloud computing, lease and marketing contracts as described in Notes 14 and 17. We expect to continue to incur losses and consume cash for the foreseeable future. This raised substantial doubt about our ability to continue as a going concern given our present liquidity.

On February 29, 2024, we entered into a securities purchase agreement with certain institutional investors, pursuant to which we agreed to sell and issue a combination of Class A Common Stock, Class 1 Warrants, Class 2 Warrants and Pre-Funded Warrants in a registered direct offering (the "Third-Party Offering"). In a concurrent registered direct offering (the "ICE Offering" and, together with the Third-Party Offering, the "Concurrent Offerings") on February 29, 2024, we entered into a securities purchase agreement with ICE, pursuant to which we agreed to sell and issue a combination of Class A Common Stock, Class 1 Warrants and Class 2 Warrants. We raised net proceeds from the Third-Party Offering of approximately \$37.6 million, after deducting the placement agent's fees and estimated offering expenses payable by us, and expect to raise net proceeds from the ICE Offering of approximately \$9.8 million, after deducting estimated offering expenses payable by us, assuming all securities are issued in the ICE Offering. Approximately \$2.4 million of proceeds from the ICE Offering were received concurrently with the closing of the Third-Party Offering, with the remainder to be issued after we obtain stockholder approval for such issuance, subject to other customary closing conditions. We intend to use the net proceeds from the Concurrent Offerings for working capital and other general corporate purposes.

We have been executing a strategic plan to optimize our capital allocation and expense base since the fourth quarter of 2022, which has reduced our annual cash expenses year over year and which we expect will continue to reduce our cash expenses in 2024. As a part of those plans, we will continue to align headcount and employee related costs to further reduce cash expenses. We have received approval in 2024 to integrate Bakkt Marketplace and Bakkt Crypto Services to reduce regulatory capital and insurance requirements. However, it is critical to our plan to mitigate our cash burn that we significantly expand our revenue base to be able to generate a sustainable operating profit. There is significant uncertainty associated with our expansion to new markets and the growth of our revenue base given the uncertain and rapidly evolving environment associated with crypto assets. We believe that our cash, after giving effect to the net proceeds received in the Concurrent Offerings and other management plans to reduce cash expenses, short-term securities, and restricted cash will be sufficient to fund our operations for the next 12 months from the date of these financial statements. We believe the expected impact on our liquidity and cash flows resulting from the capital raise, entity integration and the operational initiatives outlined above are probable of occurring and sufficient to enable us to meet our obligations for at least twelve months from the date the financial statements are issued and alleviate the substantial doubt about our ability to continue as a going concern.

Segment Information

We have one operating and reportable segment. Operating segments are defined as components of an enterprise about which separate financial information is evaluated regularly by the chief operating decision maker, who is our **chief executive officer ("CEO")**, CEO, in deciding how to allocate resources and assessing performance. All During the years ended December 31, 2023 and December 31, 2022, all material operations are within the United States. Our chief operating decision maker allocates resources and assesses performance based upon financial information at the consolidated level.

Cash and Cash Equivalents and Restricted Cash

We consider all short-term, highly liquid investments with maturities from the purchase date of three months or less to be cash equivalents. Cash equivalents consists of amounts invested in money market funds of **\$0.2 million** \$26.1 million and **\$343.1 million** \$0.2 million as of December 31, 2022 December 31, 2023 and 2021, December 31, 2022, respectively.

-108-

We classify all cash and cash equivalents that are not available for immediate or general business use as restricted. Restricted cash includes amounts set aside due to regulatory requirements, requirements or insurance collateral. Refer to Note 13 for additional information.

Customer Funds and Customer Funds Payable

Customer funds represents fiat currency deposited in **digital wallets**, bank accounts segregated from corporate funds. In accordance with state money transmitter laws, we may invest customer cash deposits in certain permissible investments. As of December 31, 2022 December 31, 2023, we had not made any such investments. We classify the assets as current since they are readily available for customer use with a corresponding customer funds payable liability.

-93-

Translation of Foreign Currencies and Foreign Currency Transactions

Our foreign subsidiaries' functional currencies are their respective local currencies. The assets and liabilities of foreign subsidiaries are translated into U.S. dollars at the exchange rate at the balance sheet date. Revenue and expenses are translated using average monthly rates. Translation adjustments are included in "Accumulated other comprehensive loss" on the consolidated balance sheets and reflected as "Currency translation adjustment, net of tax" in the consolidated statements of comprehensive loss.

Transactions denominated in currencies other than the functional currency are remeasured based on the exchange rates at the time of the transaction. Monetary assets and liabilities are translated at the rate in effect at the balance sheet date, with subsequent changes in exchange rates resulting in transaction gains or losses, which are included in "Other income (expense), net" in the consolidated statements of operations. Non-monetary assets and liabilities are translated at historical rates and revenue and expenses are translated at average rates in effect during each reporting period.

Accounts Receivable and Allowance for Doubtful Accounts

We classify rights to consideration in exchange for services or goods as accounts **receivables**, receivable. Accounts receivable are rights to consideration that are unconditional (i.e., only the passage of time is required before payment is due). "Accounts receivable, net" includes billed and contract assets (i.e., unbilled receivables), net of an estimated allowance for doubtful accounts. We calculate the allowance using the current expected credit loss model. The allowance is based upon historical loss patterns, the number of days that billings are past due and, an evaluation of the potential risk of loss associated with delinquent accounts and incorporates the use of forward-looking information over the contractual term of our accounts receivable. Receivables are written-off and charged against our recorded allowance when we have exhausted collection efforts without success. The allowance for doubtful accounts was **\$0.2 million** \$0.7 million and \$0.2 million as of December 31, 2022 December 31, 2023 and 2021, December 31, 2022, respectively. There were no write-offs of receivables during the years ended December 31, 2022, December 31, 2023 and the periods from October 15, 2021 through December 31, 2021 and January 1, 2021 through October 14, 2021 December 31, 2022.

Property, Equipment and Software, Net

Property, equipment and software are stated at cost, less accumulated depreciation and amortization.

Costs related to software we develop or obtain for internal use are included in "Property, equipment and software, net", on the consolidated balance sheets. Costs incurred during the preliminary or maintenance development stage are expensed, and costs incurred during the application development stage are capitalized and are amortized over the useful life of the software.

-109-

Depreciation and amortization are computed using the straight-line method over the following estimated useful lives of assets:

	Successor		Predecessor
	Year ended	October 15, 2021	January 1, 2021
	December 31, 2022 Ended	through December	through October 14, 2021 Year Ended
	December 31, 2023	31, 2021	31, 2022
Internal use software	3-7 years	3-7 years	3-7 years
Purchased software	3 years	3 years	3 years
Assets under finance lease	2-5 years	2-5 years	2-5 years
Office, furniture and equipment	7-10 years	7-10 years	7-10 years
Leasehold improvements	7 years	7 years	7 years
Other computer and network equipment	3 years	3 years	3 years

-94-

Leases

We determine if an arrangement is a lease and whether it is classified as finance or operating at the inception of the contract. We recognize the lease at its commencement date on the balance sheet as a liability for our obligation related to the lease and a corresponding asset representing our right to use the underlying asset over the period of use. Leases with an initial term of 12 months or less are not recorded on the balance sheet and the lease expense for these leases is recognized on a straight-line basis over the lease term.

The lease liability for each lease is recognized as the present value of the lease payments not yet paid at the commencement date. The right-of-use ("ROU") asset for each lease is recorded at the amount equal to the initial measurement of lease liability, adjusted for balances of prepaid rent, lease incentives received and initial direct costs incurred.

When determining lease term, we consider renewal options that are reasonably certain to exercise and termination options that are reasonably certain to not be exercised, in addition to the non-cancellable lease term.

For operating leases, expense is generally recognized on a straight-line basis over the lease term and is recorded within "Selling, general and administrative", in the consolidated statements of operations. For finance leases, interest on lease liability is recognized using the effective interest method, while the ROU asset is amortized on a straight-line basis over the shorter of the useful life of the ROU asset or the lease term. Interest on lease liability is recorded within "Interest income (expense), net", in the consolidated statements of operations, and amortization of right-of-use assets is recorded within "Depreciation and amortization", in the consolidated statements of operations.

Impairment of Long-Lived Assets

Long-lived assets are reviewed for impairment whenever events or changes in circumstances indicate that the carrying value of the asset may not be recoverable. The period of depreciation and amortization of long-lived assets is evaluated to determine whether events or circumstances warrant revised estimates of useful lives. When indicators of impairment are present, the recoverability of our long-lived assets is determined by comparing the carrying value of the long-lived assets to the total amount of undiscounted net cash flows expected to result from the use of the assets and their eventual disposition. If the estimated future undiscounted cash flows demonstrate the long-lived assets are not recoverable, an impairment loss would be calculated based on the excess of the carrying amounts of the long-lived assets over their fair value. We recorded impairment charges of \$11.5 million, \$1.2 million \$30.3 million and \$3.6 million \$11.5 million related to long-lived assets during the years ended December 31, 2022, December 31, 2023 and the

periods from October 15, 2021 through December 31, 2021 and January 1, 2021 through October 14, 2021 December 31, 2022, respectively. Refer to Note 6 for additional information.

Business Combinations

We account for our business combinations using the acquisition accounting method, which requires us to determine the fair value of identifiable assets acquired and liabilities assumed, including any contingent consideration, to

-110-

properly allocate the purchase price to the individual assets acquired and liabilities assumed and record any residual purchase price as goodwill in accordance with the Financial Accounting Standards Board ("FASB") Accounting Standards Codification ("ASC") Topic 805, *Business Combinations*. We identify and attribute fair values and estimated lives to the intangible assets acquired and allocate the total cost of an acquisition to the underlying net assets based on their respective estimated fair values. Determining the fair value of assets acquired and liabilities assumed requires management's judgment and involves the use of significant estimates, including projections of future cash inflows and outflows, discount rates and asset lives. These determinations will affect the amount of amortization expense recognized in future periods. We base our fair value estimates on assumptions we believe are reasonable but ~~recognizes~~ recognize that the assumptions are inherently uncertain.

For business combinations effected through a common control transaction, we measure the recognized net assets of the acquiree at the carrying amounts of the net assets previously recognized by our related party. We reflect the

-95-

operations of entities acquired through a common control transaction in our financial statements as of the first date in the reporting period or as of the date that the entity was acquired by our related party, as applicable.

For business combinations including contingent consideration, we evaluate the contractual terms to determine whether the contingency should be liability or equity classified. For liability classified contingent consideration, we evaluate the fair value of the contingent consideration each reporting period, and record the changes in the fair value through income.

If the initial accounting for the business combination has not been completed by the end of the reporting period in which the business combination occurs, provisional amounts are reported to present information about facts and circumstances that existed as of the acquisition date. Once the measurement period ends, which in no case extends beyond one year from the acquisition date, revisions to the accounting for the business combination are recorded in earnings.

All acquisition-related costs, other than the costs to issue debt or equity securities, are accounted for as expenses in the period in which they are incurred.

Goodwill and Intangible Assets

Goodwill and intangible assets that have indefinite useful lives are accounted for in accordance with ASC 350, *Intangibles — Goodwill and Other*. We allocate the cost of an acquired entity to the assets acquired and liabilities assumed based on their estimated fair values at the date of acquisition. The excess of the acquisition consideration transferred over the fair value of the net assets acquired, including other intangible assets, is recorded as goodwill. Goodwill is tested for impairment at the reporting unit level, and we are organized and operate as a single reporting unit. Goodwill and indefinite-lived intangible assets are tested at least annually or more frequently when events or circumstances occur that indicate that it is more likely than not that an impairment has occurred. Our annual testing date is October 1st of each year. In assessing goodwill and intangible assets for impairment, we first assess qualitative factors to determine whether it is necessary to perform the quantitative impairment test. In the qualitative assessment, we may consider factors such as economic conditions, industry and market conditions and developments, overall financial performance and other relevant entity-specific events in determining whether it is more likely than not that the fair value of the reporting unit is less than the carrying amount. Should we conclude that it is more likely than not that the recorded goodwill and intangible assets amounts have been impaired, we would perform the impairment test. An impairment loss is recognized in earnings if the estimated fair value of a reporting unit or indefinite lived intangible asset is less than the carrying amount of the reporting unit or intangible asset. Significant judgment is applied when goodwill and intangible assets are assessed for impairment.

Identifiable intangible assets with finite lives are amortized on a straight-line basis over their estimated useful lives and are also reviewed at least annually for impairment or more frequently if conditions exist that indicate that an asset may be impaired.

-111-

We recorded \$60.5 million and \$1,822.1 million of impairment charges related to goodwill and other intangible assets during the year ended December 31, 2022. We did not record any impairment charges related to goodwill December 31, 2023 and other intangible assets during the periods from October 15, 2021 through December 31, 2021 and January 1, 2021 through October 14, 2021, December 31, 2022, respectively. Refer to Note 5 for additional information.

Revenue Recognition

We recognize revenue when we transfer promised goods or services to customers in an amount that reflects the consideration to which we expect to be entitled in exchange for those goods or services.

Crypto Services

Crypto Services revenues are derived from our crypto trading and custody services.

Trading: Bakkt Crypto offers customers the ability to purchase or sell certain crypto on its platform. Bakkt Crypto partners with a number of liquidity providers to provide customers with immediate liquidity and access to crypto. Bakkt Crypto settles with the liquidity partners on a daily basis. The contract with a customer is created when a customer agrees to execute a trade on our platform. Each customer purchase transaction includes multiple performance obligations including execution, custody of the customer's purchased crypto, and material rights for ongoing custody beyond the original contractual period. Customer sales only include a single performance obligation which is execution of the trade. We consider the sale of customer crypto associated with delisted crypto to be revenue in the context of our contracts with customers. We report the gross proceeds of a sale to a customer or liquidity provider, including a spread on the market price of the crypto as revenue. Substantially all of the consideration is allocated to the execution performance obligation, which is satisfied when we record the transaction to the customer's account. Custody services are rendered over the initial contract term which we have concluded is one day.

Judgment is required in determining whether the Company is the principal or the agent in our contracts with customers. We have determined that we are the principal in transactions with customers as we control the crypto marketplace during the period of time between the customer transaction and the Triparty agreement, liquidity provider settlement and we are primarily responsible for the delivery of the crypto to the customer. Accordingly, revenue associated with Bakkt Crypto's services is presented gross in "Crypto services" revenue in our consolidated statement of operations and the cost basis of acquired cryptocurrency associated with Bakkt Crypto's services are presented gross in "Crypto costs" in our consolidated statement of operations.

Where applicable, we make payments to introducing brokers based on the transaction volume from resulting customer volume. These payments are expensed in the period they are incurred and are included in "Clearing, Execution and Brokerage Fees" on the consolidated statement of operations.

We maintain an inventory of crypto to facilitate consumer transactions if needed. We may adjust our inventory levels under our inventory policy. Sales of crypto resulting from inventory adjustments are not part of our normal course of business. Accordingly, proceeds from the sale of crypto outside of the normal course of business are included in "Other income (expense), net," net of the cost of crypto sold, in the statements of operations. We recognized income from the sale of crypto in our inventory reserve, net of the cost of crypto sold, of \$0.2 million during the year ended December 31, 2023. We did not recognize any income from inventory reserve adjustments during the year ended December 31, 2022.

Custody: For customers with custody accounts related to physically-delivered bitcoin futures contracts and options contracts (collectively, "PDF Contracts"), we do not charge a fee specifically for the custody service. For customers using Bakkt Trust's custody services on a standalone basis, we charge a fee, which is generally based on a fixed fee and represents fixed consideration. We invoice customers on a quarterly basis. Our performance obligation related to the

-96-

storage and custody of a customer's cryptoasset crypto represents an obligation to provide custody services for crypto. The contract for custodial services may be terminated by the applicable institution or high net worth individual at any time upon final withdrawal of all crypto, without incurring a penalty. As a result, we believe our contracts represent day-to-day contracts with each day representing a renewal. These renewals are priced consistently with the original contract and with other similar customers and as such, we do not believe that they represent a material right.

The daily contract consists of a single performance obligation to provide custodial services, with the transaction price equal to a pro rata portion (i.e., daily) of the annual custody fee. Our performance obligation to provide custodial services meets the criterion to be satisfied over time. Revenue from our custodial services is included in "Net revenues" "Crypto services" revenues in the statements of operations.

-112-

Bakkt Crypto's customers have a material right to obtain additional custody services at no cost by not selling the purchased crypto, which is recognized over the period that the assets are held on our platform. The consideration allocated to the custody and material right performance obligations is estimated on the basis of a cost plus a margin approach

and was not material to the years ended December 31, 2023 or December 31, 2022.

Revenue from our custody services is included in "Subscription and services revenue" in the disaggregation of revenue by service type table within Note 3.

Crypto: Crypto services platform revenues are transaction fees earned by Bakkt Marketplace. As part of our operation of the crypto services platform, we transact in bitcoin and ether with consumers. Consumer crypto transactions were not material for year ended December 31, 2022 and for the periods from October 15, 2021 through December 31, 2021 and January 1, 2021 through October 14, 2021.

Additionally, as part of our operation of the crypto platform, we transact in crypto with our trading clients in order to adjust our cryptoasset inventory based on actual consumer activity to maintain an inventory consistent with our inventory policy. Transactions in crypto with our trading clients in the normal course of business were not material for the year ended December 31, 2022 and for the periods from October 15, 2021 through December 31, 2021 and January 1, 2021 through October 14, 2021.

We maintain an inventory reserve of crypto to facilitate consumer transactions if needed. We may adjust our inventory reserve levels under our inventory policy. Sales of crypto resulting from inventory reserve adjustments are not part of our normal course of business. Accordingly, proceeds from the sale of crypto outside of the normal course of business are included in "Other income (expense), net," net of the cost of cryptoasset sold, in the statements of operations. We did not recognize any income from the sale of crypto during the year ended December 31, 2022 or the period from October 15, 2021 through December 31, 2021. We recognized income from the sale of crypto, net of the cost of crypto sold, of \$1.0 million for period from January 1, 2021 through October 14, 2021.

Triparty Agreement: The Digital Currency Trading, Clearing, and Warehouse Services Agreement with ICE Futures U.S., Inc. ("IFUS") and ICE Clear US, Inc. ("ICUS") (the "Triparty Agreement") governs the trading, clearing and custody services for PDF Contracts. We have concluded that we have a single performance obligation to provide a stand-ready custody function that supports the trading and clearing services provided by IFUS and ICUS, respectively. We have concluded that the related activities that collectively comprise this single performance obligation are not separately identifiable within the context of the Triparty Agreement, as all are necessary in order for IFUS and ICUS to offer PDF Contracts.

We consider the transaction price to be the net transaction fee received from IFUS and ICUS or paid to IFUS and ICUS. Rebates offered by IFUS to support market liquidity and trading volume represent consideration payable to a customer and reduce the transaction price; as such, these rebates are included in "Net revenues". Because these rebates are measured and resolved within the same reporting period, it is not necessary for us to estimate these at a given reporting period date.

We determine the obligation period associated with Triparty Agreement revenue using the portfolio method based on our historical transaction experience. Therefore, we recognize revenue for the stand-ready custody services that we provide to IFUS and ICUS on a straight-line basis over the average performance obligation period, which is less than one month.

-97-

We also recognize a capital contribution for the cost of the trading and clearing services provided by IFUS and ICUS pursuant to the Contribution Agreement, which reduces the revenue recognized as part of the net transaction fee. See Note 10 for more information.

Revenue from the Triparty Agreement is included in "Transaction revenue, net" in the disaggregation of revenue by service type table within Note 3. Revenue from the Triparty Agreement was not material during the year ended December 31, 2022 or the periods from October 15, 2021 through December 31, 2021 and January 1, 2021 through October 14, 2021.

Loyalty redemption platform

We host, operate and maintain a loyalty redemption platform connecting loyalty programs to e-commerce merchants allowing loyalty point holders to redeem a spectrum of loyalty currencies for crypto, merchandise and services. Our customer in these arrangements is generally the loyalty program sponsor. Our contracts related to our loyalty redemption platform consist of two performance obligations: (1) access to our software as a service ("SaaS")-based redemption platform and customer support services and (2) facilitation of order fulfillment services. We are the principal related to providing access to our redemption platform. We are acting as the agent to facilitate order fulfillment services on behalf of the loyalty program sponsor. Revenues generated from our loyalty redemption platform are included in "Net revenues" in the consolidated statements of operations and include the following:

- **Platform subscription fees:** Monthly fixed fee charged to customers to access the redemption platform and receive customer support services. We recognize revenue for these fees on a straight-line basis over the related contract term as the customer receives benefits evenly throughout the term of the contract. These fees are allocated to our performance obligation to provide access to our redemption platform, and thus are recognized on a gross basis. Revenue from our platform subscription fees is included in "Subscription and services revenue" in the disaggregation of revenue table by service type in Note 3.
- **Transaction fees:** Transaction fees are earned for most transactions processed through our platform. These fees are allocated to our performance obligation to provide order placement services on behalf of the loyalty program sponsor, and therefore are recognized net of the related redemption cost. We allocate transaction fees to the period in which the related transaction occurs. Revenue from our transaction fees is included in "Transaction revenue, net" in the disaggregation of revenue table by service type in Note 3.
- **Revenue share fees:** We are entitled to revenue share fees in the form of rebates from third-party commerce merchants and other clients which provide services facilitating redemption order fulfillment. We allocate revenue share fees to the period in which the related transaction occurs. Revenue from our revenue share fees is included in "Transaction revenue, net" in the disaggregation of revenue table by service type in Note 3.

- **Service fees:** We earn fees for certain software development activities associated with the implementation of new customers on our loyalty redemption platform and other development activities if a customer requests that we customize certain features and functionalities for their loyalty program. We also earn fees for providing call center services for customers. We recognize revenue from software development activities on a straight-line basis, beginning when the internally developed software resulting from such implementation or other development activities are operational in our platform over the longer of the remaining anticipated customer life and 3 years, which represents the estimated useful life of our internally developed software. Implementation and development service fees are generally billed when the implementation and development activities are performed. We recognize deferred revenue when all such fees are billed. We also earn fees for providing call center services for customers. We recognize revenue from call center services in the period in which we provide such services. Revenue from our services fees is included in "Subscription and services revenue" in the disaggregation of revenue table by service type in Note 3.

-98-

Practical expedients

We have elected the following practical expedients under ASC 606:

- Assessing the performance obligation period for Triparty Agreement transactions on a portfolio basis;
- Excluding sales taxes from the measurement of the transaction price;

-113-

- Not adjusting the transaction price for the existence of a significant financing component if the timing difference between a customer's payment and our performance is one year or less; and
- Not providing disclosures about the transaction price allocated to unsatisfied performance obligations for contracts with a duration of one year or less or when the consideration is variable and allocated entirely to a wholly unsatisfied performance obligation or a wholly unsatisfied promise to transfer a distinct good or service that forms part of a single performance obligation.

Additionally, we have elected the practical expedient under ASC 340-40 to not capitalize incremental costs to obtain a contract with a customer if the amortization period would have been one year or less.

Refer to Note 3 for additional disclosures related to our recognition of revenue.

Safeguarding obligation **Obligation for crypto:** Crypto

On March 31, 2022, the Securities and Exchange Commission issued Staff Accounting Bulletin ("SAB") Number 121 ("SAB 121"), which provides the SEC staff's view that it would be appropriate for an entity that has an obligation to safeguard crypto held for platform users to record a liability and corresponding asset on its balance sheet at the fair value of the crypto. We adopted the guidance in SAB 121 during the quarter ended June 30, 2022.

We provide **bitcoin and ether** custody services for **our consumer platform users** **Bakkt Crypto's customers** and for **Bakkt Trust's** standalone custody customers. **Bakkt Trust** also provides custody services for Bakkt Marketplace crypto customers as described in Note 1. We do not own crypto held in a custodial capacity on behalf of our customers. We hold the cryptographic key information on behalf of our custodial customers. We also maintain the internal recordkeeping of those assets and are obligated to safeguard the assets and protect them from loss or theft. We hold the controlling majority of cryptographic key information on behalf of our Bakkt Trust custodial customers. Subcustodians used by Bakkt Crypto hold our customer cryptographic key information and are not permitted to move assets without our specific authorization.

Deferred Revenue

Deferred revenue includes amounts invoiced and collected prior to our meeting the criteria for revenue recognition. We invoice customers for service fees at the time the service is performed, and such fees are recognized as revenue over time as we satisfy our performance obligation. The portion of deferred revenue to be recognized in the succeeding twelve-month period is recorded as **current deferred** "Deferred revenue, current" on the **consolidated balance sheets**, and the remaining portion is recorded as **non-current deferred revenue**. "Deferred revenue, noncurrent" on the **consolidated balance sheets**. We have determined that these arrangements do not contain a significant financing component, and therefore the transaction price is not adjusted.

Compensation and Benefits

Compensation and benefits expense primarily consists of salaries and wages, bonuses, contract labor fees, share-based compensation, unit-based compensation, payroll taxes and benefits associated with the compensation of our employees, excluding **the accelerated** **share-based and** unit-based compensation discussed in "Acquisition-related expenses," "Restructuring expenses" in the statements of operations.

Share-Based Compensation

Share-based compensation expense relates to the restricted stock units ("RSUs") and any contract labor not capitalized.

Restructuring Costs

The Company groups restructuring obligations into four categories: involuntary employee termination benefits, contractual employee termination benefits, costs to terminate contracts, performance stock units ("PSUs") granted or outstanding during the period. Our RSUs and other associated costs. Involuntary employee termination benefits include cash PSUs are measured at fair value on the date of grant and non-cash compensation recognized as expense in "Compensation and benefits" in the statements of operations over the requisite service period. Expense is recognized on a straight-line basis for awards that vest based solely on a service condition. In addition to a service condition, PSUs provide an opportunity to receive shares based on our performance as incurred upon communication of the plan to the identified employees. Contractual employee termination benefits include cash and non-cash measured against objective performance goals. We record compensation owed expense for PSUs on an accelerated attribution basis based on our assessment

-99 -114-

of the probable outcome of the performance conditions at each reporting period. The fair value of our RSUs and PSUs is determined as the closing price of our Class A common stock on the date of grant. We account for forfeitures as they occur. See Note 11 for additional information about share-based compensation.

Unit-Based Compensation

Unit-based compensation expense relates to an employee pursuant the replacement incentive units and phantom units ("participation" units) granted prior to their individual employment agreements. Cash termination benefits are recorded the VIH Business Combination on October 15, 2021, that were issued to employees as purchase consideration. The replacement incentive units and participation units were measured at fair value on the employee notice date, while non-cash Closing Date, and we recognize expense in "Compensation and benefits" in the accompanying consolidated statements of operations and comprehensive loss over the requisite service period. Additionally, we recognize variable compensation is recorded over any remaining service term. Costs expense for participation units, which historically have been classified as liabilities, based on changes to terminate contracts are recognized upon termination agreement with the provider. Other associated restructuring costs are expensed fair value of the awards at each reporting date. We elect to account for forfeitures as incurred, they occurred. See Note 11 for additional disclosures related to unit-based compensation.

Professional Services

Professional services expenses consist of costs associated with audit, tax, legal and other professional services and are recognized as incurred.

Technology and Communication

Technology and communication expenses include costs incurred in operating and maintaining our platform, including software licenses, software maintenance and support, hosting and infrastructure costs.

Selling, General and Administrative

Selling, general and administrative expenses consist primarily of costs associated with advertising, marketing, insurance and rent. Advertising costs are expensed as incurred. Total advertising costs for the years ended December 31, 2022 December 31, 2023 and for the periods from October 15, 2021 through December 31, 2021 and January 1, 2021 through October 14, 2021 December 31, 2022, were \$8.8 million, \$2.6 million \$4.6 million and \$16.2 million \$8.8 million, respectively.

Acquisition-Related Expenses

We incur incremental costs relating to acquisitions and other strategic opportunities. This includes fees for investment banking advisors, lawyers, accountants, tax advisors and public relations firms, as well as costs associated with other external costs directly related to the proposed or closed transactions. See Note 4 for additional information related to acquisition-related expenses.

Share-Based Compensation Restructuring Expenses

Share-based The Company groups restructuring obligations into four categories: involuntary employee termination benefits, contractual employee termination benefits, costs to terminate contracts, and other associated costs. Involuntary employee termination benefits include cash and non-cash compensation expense relates and is recognized as incurred upon communication of the plan to the restricted stock units ("RSUs") identified employees. Contractual employee termination benefits include cash and performance stock units ("PSUs") granted during non-cash compensation owed to an employee pursuant to their individual employment agreements. Cash termination benefits are recorded at the Successor period. Our RSUs and PSUs are measured at fair value on the employee notice date, of grant and recognized as expense in "Compensation and benefits" while non-cash compensation is recorded over the requisite any remaining service period. Expense is recognized on a straight-line basis for awards that vest based solely on a service condition. In addition term. Costs to a service condition, PSUs provide an opportunity to receive shares based on our performance as measured against objective performance goals. We record compensation expense for PSUs on an accelerated attribution basis based on our assessment of the probable outcome of the performance conditions at each reporting period. The fair value of our RSUs and PSUs is determined as the closing price of our Class A common stock on the date of grant. We account for forfeitures as they occur. See Note 11 for additional information about share-based compensation.

Unit-Based Compensation

The Successor period unit-based compensation expense relates to the replacement common incentive units and phantom units ("participation" units) granted during the Predecessor period that were issued to employees as purchase consideration. The replacement incentive units and participation units were measured at fair value on the Closing

Date, and we recognize expense in "Compensation and benefits" in the consolidated statements of operations over the requisite service period. A portion of the prior year Successor period expense relates to the acceleration of compensation expense given the satisfaction of non-substantive service obligations upon the Closing Date for certain participation units. Additionally, we recognize variable compensation expense for liability-classified participation units based on changes to the fair value of the awards at each reporting date. We account for forfeitures as they occur. Any cancellations of common incentive units due to clawbacks or similar provisions terminate contracts are recognized in "Other income (expense), net" upon termination agreement with the lesser of the provider. Other associated restructuring costs are expensed as incurred.

-100 -115-

recognized compensation cost associated with the unit-based payment arrangement or the fair value of the consideration received.

The Predecessor period unit-based compensation expense related to incentive units and participation units granted to employees and was measured at fair value on the date of grant and recognized as expense in "Compensation and benefits" over the requisite service period, subject to acceleration if certain performance or market conditions were met. Additionally, we recognized variable compensation expense for liability-classified participation units based on changes to the fair value of the awards at each reporting date. We accounted for forfeitures in the Predecessor period as they occurred. See Note 11 for additional information about unit-based compensation.

Warrant Accounting

We account for our Class A common stock warrants in accordance with applicable accounting guidance provided in ASC Topic 815, *Derivatives and Hedging—Contracts in Entity's Own Equity*, as either derivative liabilities or as equity instruments depending on the specific terms of the warrant agreement. We classify as equity any equity-linked contracts that (1) require physical settlement or net-share settlement or (2) give us a choice of net-cash settlement or settlement in our own shares (physical settlement or net-share settlement). We classify as assets or liabilities any equity-linked contracts that (1) require net-cash settlement (including a requirement to net-cash settle the contract if an event occurs and if that event is outside our control) or (2) give the counterparty a choice of net-cash settlement or settlement in shares (physical settlement or net-share settlement). All public and private placement warrants issued by us were deemed to qualify for liability classification. See Note 9 for additional information.

Noncontrolling Interest

Bakkt Holdings, Inc. is the sole managing member of Opco and, as a result, consolidates the financial results of Opco. We report a noncontrolling interest representing the portion of Opco that we control and consolidate but do not own. We recognize each noncontrolling holder's respective share of the estimated fair value of the net assets at the date of formation or acquisition. Noncontrolling interest is subsequently adjusted by the noncontrolling holders' share of additional contributions, distributions and their share of the net earnings or losses of each respective consolidated entity. We allocate net income or loss to noncontrolling interest based on the weighted average ownership interest during the period. The net income or loss that is not attributable to the Company is reflected in "Net loss attributable to noncontrolling interest" in the consolidated statements of operations. Each Opco Common Unit, when coupled with one share of our Class V common stock is referred to as a "Paired Interest." When Paired Interests are exchanged, the Company will receive a corresponding number of Opco Common Units, increasing the Company's total ownership interest in Opco. Changes in our ownership interest in Opco while we retain a controlling interest in Opco are accounted for as equity transactions. As such, future redemptions or direct exchanges of Opco Common Units by the noncontrolling members of Opco will result in a change in ownership and reduce the amount recorded as noncontrolling interest and increase additional paid-in capital.

Income Taxes

We account for deferred federal and state income taxes using the asset and liability method. Under this method, deferred tax assets and liabilities are recognized for the future tax consequences attributable to differences between the financial statement carrying amounts of assets and liabilities and their respective tax bases. Deferred tax assets are also recognized for the future tax benefits attributable to the expected utilization of existing tax net operating loss carryforwards and other types of carryforwards. If the future utilization of some portion of deferred taxes is determined to be unlikely, a valuation allowance is provided to reduce the recorded tax benefits from such assets. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences and carryforwards are expected to be recovered or settled. The effect on deferred tax assets and liabilities of a change in tax rates is recognized in income in the period that includes the enactment date. In the event interest or penalties are incurred with respect to income tax matters, our policy will be to include such items in income tax expense. We record deferred tax

-101-

assets and liabilities on a net basis on the consolidated balance sheets. We recognize interest and penalties related to uncertain tax positions in income tax expense" in the consolidated statements of operations.

Fair Value Measurements

We account for our financial assets and liabilities that are recognized and/or disclosed at fair value on a recurring basis in accordance with ASC 820, *Fair Value Measurements and Disclosures*. Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. When determining the fair value measurements for assets and liabilities required or permitted to be recorded at fair value, we consider the principal or most advantageous market in which we would transact, and we consider assumptions that market participants would use when pricing the asset or liability. ASC 820 establishes a hierarchy of

valuation techniques based on whether the inputs to those valuation techniques are observable or unobservable and proscribes the following fair value hierarchy in determining fair values:

Level 1 — Quoted prices for identical assets or liabilities in active markets.

Level 2 — Inputs other than quoted prices within Level 1 that are observable either directly or indirectly, including quoted prices in active markets for similar assets or liabilities, quoted prices in markets with insufficient volume or infrequent transactions (less active markets), or model-derived valuations in which significant inputs are observable or can be derived principally from, or corroborated by, observable market data such as interest rates or yield curves.

Level 3 — Unobservable inputs reflecting our view about the assumptions that market participants would use in measuring the fair value of the assets or liabilities.

Concentration of Credit Risk

Financial instruments that potentially subject us to concentrations of credit risk consist primarily of cash and cash equivalents, restricted cash, and accounts receivable, including unbilled accounts receivable. The associated risk of concentration for cash and cash equivalents and restricted cash is mitigated by banking with creditworthy institutions. At certain times, amounts on deposit exceed federal deposit insurance limits. We have not experienced any losses on our deposits of cash and cash equivalents.

As of December 31, 2022 December 31, 2023, and 2021, December 31, 2022, the three largest customer balances represented approximately 65% 44% and 53% 65%, respectively, of total accounts receivable.

For the year ended December 31, 2022 and December 31, 2023, we had no revenue concentration with any individual customer. However, our customers are introduced to us via client relationships. For the year ended December 31, 2023 our top three Crypto clients represented approximately 86% of Crypto revenue. One client represented over 10% of our Crypto revenue, which accounted for revenue of \$529.6 million during the year ended December 31, 2023. We had no material concentration risk for the periods from October 15, 2021 through December 31, 2021 year ended December 31, 2022 as our crypto revenues were not material.

For the years ended December 31, 2023 and January 1, 2021 through October 14, 2021 December 31, 2022, our top three Loyalty customers represented approximately 52%, 46% 63% and 55% 61%, respectively, of total Loyalty net revenue. Three customers, that each represented over 10% of our Loyalty net revenue, combined to account for net revenue of \$28.6 million \$33.2 million and \$33.0 million during the years ended December 31, 2023 and December 31, 2022. Five customers, that each represented over 10% of our net revenue, combined to account for net revenue of \$7.8 million during the period from October 15, 2021 through December 31, 2021. Three customers, that each represented over 10% of our net revenue, combined to account for net revenue of \$15.3 million during the period from January 1, 2021 through October 14, 2021.

Investments

We were required to hold shares of Intercontinental Exchange, Inc. ("ICE") stock for ICUS membership privileges prior to the withdrawal of our ICUS membership on May 20, 2020. These shares were carried at cost basis and evaluated periodically for impairment. Upon withdrawal of its ICUS membership, these shares were remeasured at fair value, with realized and unrealized gains and losses being reflected as "Other income (expense), net". In June 2021, we sold all of our shares of ICE stock, resulting in a realized loss on the sale of shares of affiliate stock of \$0.1 million for the period from January 1, 2021 through October 14, 2021.

-102-

We classify our investments in debt securities as available-for-sale investments. **Debt** Our investments in debt securities consist of U.S. Treasury debt **securities**. These investments are **securities** held in the custody of a major financial institution.

Investments are classified as current or non-current depending on their maturity dates and when they are expected to be converted into cash.

Recently Adopted Accounting Pronouncements

Standard/Description	Effective Date and Adoption Considerations	Effect on Financial Statements
ASU 2020-06, Debt—Debt with Conversion and Other Options (Subtopic 470-20) and Derivatives and Hedging—Contracts in Entity's Own Equity (Subtopic 815-40) We did not adopt any significant accounting pronouncements during the years ended December 31, 2023 or December 31, 2022.	We early adopted on January 1, 2021.	This standard is effective for annual periods beginning December 15, 2023, including interim periods therein early adoption permitted. The adoption of the new standard did not have a material impact on our consolidated financial statement amounts.
ASU 2021-08, Business Combinations (Topic 805): Accounting for Contract Assets and Contract Liabilities from Contracts with Customers. This standard requires that an acquirer recognize, and measure contract assets and liabilities acquired in a business combination in accordance with ASU 2014-09, Revenue from Contracts with Customers (Topic 606), or ASU 2021-08.	We early adopted on October 15, 2021 on a prospective basis.	This standard is effective for annual periods beginning December 15, 2022, including interim periods therein early adoption permitted. We applied the guidance to V1H Business Combination as it relates to the measurement of deferred revenue at the acquisition date.

Recently Issued Accounting Pronouncements Not Yet Adopted

On December 13, 2023, the FASB issued Accounting Standards Update ("ASU") 2023-08, which addresses the accounting and disclosure requirements for certain crypto assets. The new guidance requires entities to subsequently measure certain crypto assets at fair value, with changes in fair value recorded in net income in each reporting period. We

-117-

will also be required to provide additional disclosures about the holdings of certain crypto assets. The ASU will be effective for our fiscal year 2025 including interim periods within that year. We do not believe the implementation of the ASU will have a material impact on our consolidated balance sheet or statement of operations.

We do not believe that any other recently issued, but not yet effective, accounting standards, if currently adopted, would have a material effect on the Company's our financial statements.

3. Revenue from Contracts with Customers

Disaggregation of Revenue

We disaggregate revenue by service type and by platform as follows (in thousands):

Service Type	Successor		Predecessor
	Year ended	October 15, 2021	
		through December 31, 2021	
Transaction revenue, net ^(a)	\$ 27,884	\$ 5,724	\$ 10,637
Subscription and service revenue	26,683	5,757	17,319
Total revenue	\$ 54,567	\$ 11,481	\$ 27,956

-103-

Service Type	Year Ended	Year Ended
	December 31, 2023	December 31, 2022
Transaction revenue ^(a)	\$ 756,165	\$ 29,541
Subscription and service revenue	23,971	26,683
Total revenue	\$ 780,136	\$ 56,224

(a) Amounts are net of incentives, rebates and liquidity incentive payments reductions related to the Contribution Agreement of \$0.1 million and consideration payable to certain customers of \$0.6 million for the years ended December 31, 2022, December 31, 2023 and less than \$0.1 million and \$2.1 million for the periods from October 15, 2021 through December 31, 2021 and from January 1, 2021 through October 14, 2021 December 31, 2022, respectively. Included in these amounts are amounts earned from related

parties of less than \$0.1 million for the year both years ended December 31, 2022, December 31, 2023 and less than \$0.1 million and \$0.3 million for the periods from October 15, 2021 through December 31, 2021 and from January 1, 2021 through October 14, 2021 December 31, 2022, respectively.

Platform	Platform	Successor		Predecessor	Year Ended December 31, 2023	Year Ended December 31, 2022
		Year ended December 31, 2022	31, 2022	Year ended December 31, 2021	31, 2021	
Loyalty platform	Loyalty platform	54,479	11,315	29,179		
Crypto services ^(b)	Crypto services ^(b)	88	166	(1,223)		
Total revenue	Total revenue	\$ 54,567	\$ 11,481	\$ 27,956		

(b) Amounts are net of incentives, rebates and liquidity incentive payments reductions related to the Contribution Agreement of \$0.1 million and consideration payable to certain customers of \$0.6 million for the year years ended December 31, 2022, December 31, 2023 and less than \$0.1 million and \$2.1 million for the periods from October 15, 2021 through December 31, 2021 and from January 1, 2021 through October 14, 2021 December 31, 2022, respectively. Included in these amounts are amounts earned from related parties of less than \$0.1 million for the year both years ended December 31, 2022, December 31, 2023 and less than \$0.1 million and \$0.3 million for the periods from October 15, 2021 through December 31, 2021 and from January 1, 2021 through October 14, 2021 December 31, 2022, respectively.

We recognized revenue from foreign jurisdictions of \$15.9 million and \$3.8 million for the year years ended December 31, 2022, December 31, 2023 and \$0.8 million and \$2.6 million for the periods from October 15, 2021 through December 31, 2021 and from January 1, 2021 through October 14, 2021 December 31, 2022, respectively.

We have one reportable segment. See Note 2 for additional information.

Deferred Revenue

Contract liabilities consist of deferred revenues for amounts invoiced prior to us meeting the criteria for revenue recognition. We invoice customers for service fees at the time the service is performed, and such fees are recognized as revenue over time as we satisfy its performance obligation. Contract liabilities are classified as "Deferred revenue, current" and "Deferred revenue, noncurrent" in our consolidated balance sheets. The activity in deferred revenue for the year years ended December 31, 2022 December 31, 2023 and for the periods from October 15, 2021 through December 31, 2021 and January 1, 2021 through October 14, 2021 December 31, 2022 was as follows (in thousands):

	-104--118-	Successor		Predecessor
		Year ended December 31, 2022	October 15, 2021 through December 31, 2021	
Beginning of the period contract liability		\$ 9,448	\$ 9,423	\$ 8,385
Revenue recognized from contract liabilities included in the beginning balance		(4,739)	(1,350)	(3,524)
Increases due to cash received, net of amounts recognized in revenue during the period		2,375	1,375	4,562
End of the period contract liability		\$ 7,084	\$ 9,448	\$ 9,423
Beginning of the period contract liability			\$ 7,084	\$ 9,448
Revenue recognized from contract liabilities included in the beginning balance			(4,045)	(4,739)
Increases due to cash received, net of amounts recognized in revenue during the period			4,441	2,375
End of the period contract liability		\$ 7,480	\$ 7,084	

Remaining Performance Obligations

As of December 31, 2023, the aggregate amount of the transaction price allocated to the remaining performance obligations related to partially completed contracts was \$21.6 million, comprised of \$14.1 million of subscription fees and \$7.5 million of service fees that are deferred. We will recognize our subscription fees as revenue over a weighted-average period of 25 months (ranges from 2 months – 33 months) and our service fees as revenue over a weighted-average period of 36 months.

As of December 31, 2022, the aggregate amount of the transaction price allocated to the remaining performance obligations related to partially completed contracts was \$27.5 million, comprised of \$20.4 million of subscription fees and \$7.1 million of service fees that are deferred. We will recognize our subscription fees as revenue over a weighted-average period of 35 months (ranges from 2 months – 45 months) and our service fees as revenue over approximately 17 months.

As of December 31, 2021, the aggregate amount of the transaction price allocated to the remaining performance obligations related to partially completed contracts is \$26.0 million, comprised of \$16.6 million of subscription fees and \$9.4 million of service fees that are deferred. We will recognize our subscription fees as revenue over a weighted-average period of 50 months (ranges from 10 months – 57 months) and our service fees as revenue over approximately 36 months.

Contract Costs

For the **year** years ended December 31, 2023 and December 31, 2022, we did not incur any incremental costs to obtain and/or fulfill contracts with **customers**. For the periods from October 15, 2021 through December 31, 2021 and January 1, 2021 through October 14, 2021, we incurred \$0.1 million and \$0.7 million in incremental costs to obtain and/or costs to fulfill contracts with customers, respectively.

4. Business Combinations and Asset Acquisition

VIH Business Combination

The VIH Business Combination was completed on October 15, 2021. The VIH Business Combination was accounted for as a business combination under ASC 805. Opco constitutes a business, with inputs, processes, and outputs. Accordingly, the acquisition of Opco constitutes the acquisition of a business for purposes of ASC 805, and due to the change in control, has been accounted for using the acquisition method with the Company as the accounting acquirer and Opco as the accounting acquiree. We are the accounting acquirer based on an evaluation of the following factors:

- We are the sole managing member of Opco, the managing member has full and complete charge of all affairs of Opco and the existing non-managing member equity holders of Opco do not have substantive participating or kick out rights;
- The Sponsor and Opco jointly designated six of the initial eight members of the Board; and
- Equity Holders do not hold a controlling interest in the Company or Opco due to (1) the limitation imposed by the Voting Agreement entered into between the Company and ICE at Closing on ICE and its affiliates' voting power to 30% of the total voting power of all shares of our Class A common stock, par value \$0.0001 per share ("Class A common stock"), and our Class V common stock, par value \$0.0001 per share ("Class V common stock" and, together with the Class A common stock, the "Common Stock") that are issued and outstanding and entitled to vote as of the relevant record date so long as it owns shares of Common Stock representing more than 50% of the total voting power of the Company, and (2) ICE and its affiliates do not unilaterally control the Board, as only one out of the eight members of the Board is affiliated with ICE, and the majority of the Board are independent directors not affiliated with ICE.

These factors support the conclusion that the Company acquired a controlling interest in Opco and is the accounting acquirer. We are the primary beneficiary of Opco, which is a variable interest entity, since we have the power to direct the activities of Opco that most significantly impact Opco's economic performance through our role as the managing member, and our ownership of Opco, which results in the right (and obligation) to receive benefits (and absorb losses) of Opco that could potentially be significant to us. Therefore, the VIH Business Combination constituted a change in control and was accounted for using the acquisition method. Under the acquisition method, as the accounting acquirer, VIH's net assets and stockholders equity retain their carrying values. The estimated fair value of the purchase price is allocated to the assets acquired and the liabilities assumed from Opco based on their estimated acquisition-date fair values. Opening

-105-

successor cash and equity represent the carrying value of the accounting acquirer's cash and equity and are not comparable to the predecessor cash and equity of Opco.

Included in the opening cash balance as of October 15, 2021 was \$207.4 million from the proceeds of the sale of the units in VIH's Initial Public Offering and the sale of the private placement warrants, net of transaction costs, that was previously held in the Trust Account. The cash proceeds from the Trust Account were used for transaction expenses, deferred underwriting commission, redemption of shares as described below, and the operating activities of the Company following the VIH Business Combination.

We paid \$84.5 million of cash for the repurchase of 8,452,042 shares Class A ordinary shares, for shareholders who elected to execute their redemption right, as presented within the financing activities of our statement of cash flows. The remaining 12,285,160 outstanding Class A ordinary shares of the Company, par value \$0.0001 per share (the "Class A Ordinary Shares"), and 5,184,300 Class B ordinary shares of the Company, par value \$0.0001 per share (the "Class B Ordinary Shares"), were exchanged for an equivalent number of shares of Class A common stock.

We incurred \$1.6 million of expenses directly related to the VIH Business Combination from October 15, 2021 through December 31, 2021, which are reflected as "Acquisition-related expenses" in the consolidated statements of operations. Opco incurred \$24.8 million of expenses directly related to the VIH Business Combination from January 1, 2021 through October 14, 2021, which are reflected as "Acquisition-related expenses" in the consolidated statements of operations, including a \$12.1 million success fee for an investment bank advising Opco. At Closing, we paid \$7.3 million of deferred underwriting costs related to VIH's initial public offering and \$13.0 million of fees related to the \$325.0 million in proceeds from the investors purchasing an aggregate of 32,500,000 shares of Class A common stock in connection with the VIH Business Combination (the "PIPE Investment"). The cash inflow from the PIPE Investment is presented net of issuance costs within the financing section of the statement of cash flows. The fees associated with the PIPE were treated as a reduction of equity. Additionally, at Closing, we paid \$0.9 million as a prepayment on Directors and Officers ("D&O") insurance which is included in "Other current assets" in the balance sheets.

Additionally, all outstanding membership interests and rights to acquire membership interests in Opco were exchanged for an aggregate of 208,200,000 Opco common units and an equal number of newly issued shares of our Class V common stock, par value \$0.0001 per share ("Class V common stock"), which are non-economic, voting shares of the Company, of which 207,406,648 were outstanding and 793,352 reserved for issuance upon the exercise of a warrant agreement. Opco Equity Holders (as defined below) converted 400,000,000 Opco Class A voting units, 192,453,454 Opco Class B voting units, and 270,270,270 Opco Class C voting units to 189,933,286 shares of Class V common stock on a pro rata basis. Opco Class C warrants were exchanged for the 793,352 shares of Class V common stock referenced above. Opco incentive units were exchanged for 17,473,362 shares of Class V common stock.

Each Opco common unit, when coupled with one share of our Class V common stock is referred to as a "Paired Interest." Paired Interests may be exchanged for one share of our Class A common stock or a cash amount in accordance with the Third Amended and Restated Limited Liability Company Agreement of Opco and the Exchange Agreement, dated as of October 15, 2021, as amended on May 15, 2022, between the Company and certain holders of Opco common units (the "Exchange Agreement"). Following the Closing,

the Company owned approximately 20.3% of the Opco common units, with the remaining Opco common units being owned by the equity owners of Opco prior to the VIH Business Combination (the "Opco Equity Holders").

-106-

The following table summarizes the estimated fair value of the purchase consideration paid to Opco Equity Holders (in thousands, except per unit data):

	Consideration
Equity consideration paid to Opco Equity Holders ⁽¹⁾	\$ 1,904,648
Cash paid for redeemed Opco Incentive Units ⁽²⁾	1,488
Cash paid for seller transaction costs ⁽³⁾	13,454
Total purchase consideration	\$ 1,919,590

⁽¹⁾ The equity consideration paid to Opco Equity Holders is equal to the estimated fair value of noncontrolling interest on the acquisition date. Equity consideration paid to Opco Equity Holders consisted of the following:

	Fair Value
Opco common units	189,933
Fair value per unit	\$ 9.46
Fair value of Opco common units	\$ 1,796,769
Fair value of Opco common incentive units based on services rendered	107,879
Equity consideration paid to Opco Equity Holders	\$ 1,904,648

⁽²⁾ Represents the cash paid to certain Opco Equity Holders in exchange for the redemption of 40% of the first one-third of their Opco common incentive units and preferred incentive units which vested at the effective time of the VIH Business Combination (see Note 11).

⁽³⁾ Represents Opco's liability to pay transaction costs as of the VIH Business Combination date, which was settled with cash received from the VIH Business Combination.

We recorded the allocation of the purchase price to Opco's assets acquired and liabilities assumed based on their fair values as of October 15, 2021. The purchase price allocation is as follows (in thousands):

	Fair Value
Cash and cash equivalents, restricted cash and customer funds	\$ 30,837
Accounts receivable, net	17,009
Other current assets	5,090
Property, equipment and software	4,115
Deposits with clearinghouse, noncurrent (affiliate in Predecessor period)	15,151
Intangible assets	393,070
Goodwill	1,527,071
Deferred tax asset	140
Other assets	3,002
Total assets acquired	1,995,485
Accounts payable and accrued liabilities	(52,997)
Due to related party (affiliate in Predecessor period)	(2,313)
Other current liabilities	(3,140)
Deferred revenue, current	(4,665)
Participation unit liability	(6,756)
Deferred revenue, noncurrent	(4,758)
Other liabilities	(1,266)
Total liabilities assumed	(75,895)
Total purchase consideration	\$ 1,919,590

-107-

The goodwill of \$1,527.1 million represents the excess purchase price over the fair value of the net tangible and identifiable intangible assets acquired and liabilities assumed. Qualitative factors that contribute to the recognition of goodwill include certain intangible assets that are not recognized as separate identifiable intangible assets apart from goodwill. Intangible assets not recognized apart from goodwill consist primarily of expertise and industry know-how of the workforce, back-office infrastructure, strong market position and the assembled workforce of Opco. None of the goodwill recognized is expected to be deductible for income tax purposes.

The weighted average amortization period for the acquired intangible assets is 5.7 years. The fair value of the intangible assets is as follows (in thousands):

	Weighted Average Useful Lives (in years)	Fair Value
Trademarks / trade names ⁽¹⁾	Indefinite	\$ 39,470
Licenses ⁽²⁾	Indefinite	241,320
Customer relationships ⁽³⁾	8.0	44,970
Technology ⁽⁴⁾	4.2	67,310
Total intangible assets acquired		\$ 393,070

⁽¹⁾ The trademarks / trade names represent those that Opco originated which were valued using the relief-from-royalty method.

⁽²⁾ The licenses represent those that Opco acquired that were valued using the with-and-without method.

⁽³⁾ The customer relationships represent the existing customer relationships of Opco that were valued by applying the multi-period excess earnings methodology.

⁽⁴⁾ The technology represents technologies acquired and developed by Opco for the purpose of operating its platform, which were valued using the relief-from-royalty method.

Apex Crypto

On November 2, 2022, April 1, 2023 we entered into a definitive agreement with Apex Fintech Solutions, Inc. ("AFS") pursuant to which we agreed to acquire all completed the acquisition of 100% of the membership ownership interests of Apex Crypto, LLC ("Apex"), a financial technology company with an integrated crypto trading platform, for Crypto. We recognized goodwill from the acquisition due to the assembled, experienced workforce and anticipated growth we expect to achieve from Apex Crypto's sales pipeline and product capabilities. The total consideration consisting of an initial purchase price of as measured at April 1, 2023 included \$55.0 million in cash, approximately \$10.5 million in Class A common stock payable based on Apex Crypto's performance in the fourth quarter of 2022, and \$11.8 million of cash paid for net working capital, which was predominantly cash held in banks. In addition, we may pay up to \$45.0 \$100.0 million in shares of our Class A common stock that may be earned if Apex achieves certain profitability growth targets for the fourth quarter of 2022, and up to an as additional \$100.0 million in shares of our Class A common stock consideration depending on Apex's Apex Crypto's achievement of certain financial targets through 2025. Subsequent 2025 (the "contingent consideration"). As part of the purchase price allocation the value of the contingent consideration was estimated to December 31, 2022 be \$2.9 million.

The following is a reconciliation of the fair value of consideration transferred in the acquisition to the fair value of the assets acquired and liabilities assumed.

-119-

(\$ in millions)

Cash consideration paid	55.0
Cash paid for working capital and cash	11.8
Class A common stock at transaction close	10.5
Estimated fair value of Class A common stock contingent consideration	2.9
Total consideration	\$ 80.2
Current assets	31.8
Safeguarding asset for crypto	689.3
Non-current assets	0.3
Intangible assets - developed technology	5.6
Intangible assets - customer relationships	10.2
Goodwill	52.0
Current liabilities	(19.7)
Safeguarding obligation for crypto	(689.3)
Net assets acquired	\$ 80.2

The above fair values are as of the acquisition date. The acquired intangible assets and goodwill required the use of significant unobservable inputs including client activation forecasts, expectations about customer trading volume and frequency, customer attrition rates, and estimated useful lives of acquired technology and discount rates (level 3 inputs). The acquired customer relationships were valued using a multi-period excess earnings model. The acquired developed technology was valued using a relief from royalty method. Acquired crypto safeguarding asset and obligation were valued based on the midpoint of a bid-ask spread as of the acquisition date (level 2 inputs). Other assets and liabilities were carried over at their acquired costs which was not materially different than their fair values.

The contingent consideration payable in Class A common stock to Apex Crypto's former owners based on the performance of the business in the 2023-2025 annual periods was estimated using a Monte Carlo model given the range of possible outcomes. As of December 31, 2023, we determined the actual achievement value of the Q4 2022 profitability growth target would result in approximately \$9.0 million Class A common stock being issued when contingent consideration was zero, based on our forward-looking projections and minimum profit requirements associated with the transaction closes. The transaction, which earnout and reversed the accrual through acquisition expenses.

Revenue generated by Apex Crypto from the acquisition date through December 31, 2023 was \$725.9 million, and is subject to regulatory approvals, is expected to close included in the first half Company's statements of 2023. Under operations. Net loss generated by Apex Crypto from the terms acquisition date through December 31, 2023 was \$39.9 million, and is included in the Company's statements of operations.

The following unaudited pro forma financial information presents the Company's results of operations as if the acquisition of Apex Crypto had occurred on January 1, 2022. The unaudited pro forma financial information as presented below is for illustrative purposes and does not purport to represent what the results of operations would actually have been if the acquisition of Apex Crypto occurred as of the transaction date indicated or what the results would be for any future periods. The unaudited pro forma results reflect the step-up amortization adjustments for the fair value of intangible assets acquired, acquisition-related expenses, and share-based compensation expense for newly issued restricted stock units. Proforma revenue for the years ended December 31, 2023 and December 31, 2022 would be \$1,225.5 million and \$3,127.7 million, respectively. Proforma net loss for the years ended December 31, 2023 and December 31, 2022 would be \$219.5 million and \$2,004.1 million, respectively.

Subsequent to the acquisition, we changed the name of Apex Crypto to Bakkt and AFS will, among other things, enter into a commercial agreement that memorializes the continued relationship and provision of Crypto Solutions, LLC ("Bakkt crypto solutions to AFS's customers. Crypto").

Bumped Acquisition

On February 8, 2023, we acquired 100% of the units of Bumped Financial, LLC, ("Bumped" which we subsequently renamed Bakkt Brokerage, LLC ("Bakkt Brokerage"), a broker-dealer registered with the SEC and the Financial Industry Regulatory

-120-

Authority, Inc. ("FINRA"), for cash consideration of \$575,000. This acquisition required Bumped \$0.6 million. Because of the limited scope of its historical operations, we determined that substantially all of the purchase consideration in the transaction would be allocated to file a Continuing Membership Application ("CMA") with FINRA, the in-place licenses Bakkt Brokerage held and FINRA is currently reviewing the CMA to ensure that Bumped will continue to meet its regulatory obligations if the filing is approved as such, have accounted for this as an asset acquisition.

-108-

5. Goodwill and Intangible Assets, Net

Changes in goodwill consisted of the following (in thousands):

	Successor
Balance as of December 31, 2021	1,527,118
Foreign currency translation	(2)
Impairment	(1,511,264)
Balance as of December 31, 2022	15,852
Apex acquisition	52,149
Impairment	—
Balance as of December 31, 2023	<u><u>\$ 15,852</u></u> <u><u>68,001</u></u>

Impairment Analyses Performed During The Year Ended December 31, 2023

During the third quarter of 2023, we concluded it was more likely than not the fair value of our equity was lower than book basis as of September 30, 2023, and our indefinite-lived intangible assets, long-lived assets and goodwill should be evaluated for impairment as of September 30, 2023. Our conclusion was based on several determinative factors, including the sustained decline in our market capitalization as of September 30, 2023 and failure to achieve our projected growth. We conducted a quantitative test for our various long-lived asset groups, indefinite lived intangible assets and single reporting unit's goodwill. We concluded in the quantitative assessment that the fair value of our loyalty-related customer relationships and developed technology and our trademark/trade name indefinite-lived intangible asset fell below their carrying values as of September 30, 2023 and recorded impairments within "Goodwill and intangible assets impairments" on the consolidated statement of operations of \$16.6 million, \$3.1 million and \$3.7 million, respectively. No impairment of other long-lived assets was indicated. No goodwill impairment was indicated by the quantitative assessment.

Our September 30, 2023 goodwill impairment analyses involved the use of a market approach and an income approach, with equal weighting given to both approaches. The market approach valuation was derived from metrics of publicly traded companies, which are Level 2 inputs. A significant judgment in using the market approach included the selection of comparable businesses with consideration of risk profiles, size, geography, and business operations. Significant assumptions used in the income approach included growth (revenue, earnings before interest, taxes, depreciation, and amortization ("EBITDA") and earnings before interest and taxes ("EBIT") margin, and terminal value) and discount rates. We used historical performance and management estimates of future performance to estimate margins and revenue growth rates. Our growth rates and margins are impacted significantly by our ability to grow crypto trading volumes and our ability to expand to international markets. The income approach utilized our projected cash flow estimates to determine fair value, which were unobservable, Level 3 inputs. Unobservable inputs are used to measure fair value to the extent that relevant observable inputs are not available. We developed our estimates using the best information available as of September 30, 2023 and in consultation with third party valuation specialists. We used discount rates that were intended to be commensurate with the risks and uncertainty inherent in our business. Assumptions used, such as forecasted growth rates, capital expenditures, and our cost of capital, were consistent with our internal projections and operating plans as of September 30, 2023.

Our quantitative impairment analysis for the loyalty-related customer relationships and developed technology intangible asset involved the use of a market approach which estimated the sale value of the asset group associated with the loyalty business. Significant judgments included the scope of the asset group and the hypothetical proceeds associated with the transaction, which are level 3 inputs.

Our impairment analysis for the trademark/trade name involved the use of a relief from royalty approach, which estimated the value of the stream of payments a market participant would pay to make use of the in-place trade name. Significant judgments in this analysis included forecasted revenue growth rates, the royalty rate and the discount rate.

-121-

The discount rate used in the valuations described above ranged from 13.5% (used in the loyalty asset group valuations) to 35% (used in the crypto services asset group valuations). The crypto services discount rate increased by approximately 400 basis points from the rate used in the Apex Crypto acquisition described in Note 4 due to the additional uncertainty around our international expansion. The discount rate used in the income approach in the goodwill quantitative test and the valuation of the trademark/tradename indefinite-lived intangible asset was a weighted average 25%.

During the fourth quarter of 2023, we determined we would not be able to continue as a going concern for twelve months subsequent to the expected release of the 2023 financial statements absent additional equity financing. We determined this was a triggering event and conducted an additional impairment analysis on our indefinite-lived intangible assets, long-lived assets and goodwill. We determined the carrying value of our tradename exceeded its fair value by approximately \$1.4 million and recognized a corresponding impairment loss. The fair value inputs associated with the tradename impairment loss are consistent with those described above, updated for revenue growth consistent with that observed since our impairment analysis performed as of the period ended September 30, 2023.

The undiscounted and discounted cashflow analyses conducted for the loyalty asset group indicated that its limited prospects for growth resulted in full impairment of the loyalty intangible and long-lived assets (Level 3 inputs). Accordingly we recognized impairment losses associated with the acquired customer relationships, developed technology, property plant and equipment, and prepaid customer acquisition costs of \$16.7 million, \$8.6 million, \$1.9 million, and \$4.4 million, respectively. The right of use assets associated with the leased properties in the loyalty asset group were also impaired based on a fair market value analysis considering a hypothetical sublease of these properties (Level 2 inputs), resulting in an additional impairment loss of \$4.5 million.

The undiscounted and discounted cashflow analyses conducted for the crypto asset group used revenue projections that assumed retail trading and engagement metrics would remain at average 2023 levels for a significant period of time and limited the growth associated with our international expansion and institutional businesses given their limited performance track record (Level 3 inputs). The discounted cash flow impairment analysis indicated the acquired customer relationships, developed technology, property, plant and

equipment, and licenses were fully impaired, resulting in impairment losses of \$9.4 million, \$8.0 million, \$11.0 million, and \$0.6 million, respectively. Certain right of use assets associated with leased properties were also impaired based on a fair market value analysis considering a hypothetical sublease of these properties (level 2 inputs), resulting in an additional impairment loss of \$4.4 million.

After giving effect to the above impairments, we determined that goodwill was not impaired based on a comparison of the remaining book value of equity to our market capitalization. We considered the existence of material nonpublic information as of December 31, 2023 related to going concern risk, the Concurrent Offerings, and subsequent declines in our market capitalization once the going concern risk was disclosed, in reaching this conclusion (Level 3 inputs). Further declines in our market capitalization or the failure to execute on business objectives could result in future goodwill or intangible asset impairments.

Impairment Analyses Performed During The Year Ended December 31, 2022

During the third quarter of 2022, we commenced our annual strategic planning process in the third quarter of 2022, which included updating expected cryptoasset crypto product activations in light of the cryptoasset crypto market volatility and elongation of decision timeframes for activations of cryptoasset crypto strategy by our clients. We assessed the changes in circumstances that occurred during the period ended September 30, 2022 to determine if it was more likely than not that the fair values of any indefinite-lived intangible assets, long-lived assets or goodwill were below their carrying amounts. Several determinative factors, including the elongated timing for expected cryptoasset crypto product activations and the sustained decline in our market capitalization, led us to conclude that it was more likely than not that the fair value of our equity was lower than book basis as of September 30, 2022, and our indefinite-lived intangible assets, long-lived assets and goodwill should be evaluated for impairment as of September 30, 2022. We then performed quantitative impairment tests of the indefinite-lived intangible assets, long-lived assets, and goodwill.

-122-

After assessing the totality of circumstances and giving effect to the indefinite-lived intangible asset impairment described below, we concluded that the carrying value of our reporting unit exceeded its fair value and recorded a goodwill impairment of \$1,389.9 million.

During the fourth quarter of 2022 a number of high-profile bankruptcies among cryptoasset crypto companies exacerbated the volatility in the market for our services we observed in earlier in the year. This created a further depression of our stock price and created additional uncertainty about our ability to achieve the growth we expected when the impairment test as of September 30, 2022 was performed. Accordingly, we concluded our indefinite-lived intangible assets, long-lived assets and goodwill should be quantitatively tested for impairment as of December 31, 2022.

We concluded the carrying value of the reporting unit exceeded its fair value and recorded an incremental goodwill impairment of \$121.4 million.

Our goodwill impairment analyses involved the use of a market approach and an income approach, with equal weighting given to both approaches. The market approach valuation was derived from metrics of publicly traded companies, which are Level 2 inputs. A significant judgment in using the market approach includes the selection of comparable businesses with consideration of risk profiles, size, geography, and business operations. Significant assumptions used in the income approach include growth (revenue, earnings before interest, taxes, depreciation, and amortization (EBITDA) and earnings before interest and taxes (EBIT) ("EBIT") margin, and terminal value) and discount rates. We used historical performance and management estimates of future performance to estimate margins and revenue growth rates. Our growth rates and margins are impacted significantly by our ability to grow loyalty redemption transactions, cryptoasset crypto trading volumes and subscription services. The income approach utilizes our projected cash flow estimates to determine fair value, which are unobservable, Level 3 inputs. Unobservable inputs are used to measure fair value to the extent that relevant observable inputs are not available. We developed our estimates using the best information available at the time and in consultation with third party valuation specialists. We used discount rates that are intended to be commensurate with the risks and uncertainty inherent in our business. Assumptions used, such as forecasted growth rates, capital expenditures, and our cost of capital, are consistent with our internal projections and operating plans. Changes in our estimates or any of our other assumptions used in our analysis could result in a different conclusion. Further declines in our market capitalization or the failure to execute on business objectives could result in future goodwill or intangible asset impairments.

-109-

For the impairment analysis conducted as of September 30, 2022 we also concluded that the fair value of our licenses and trademark/trade name indefinite-lived intangible assets fell below their carrying values and recorded impairments of \$131.3 million and \$26.5 million, respectively.

For the impairment analysis conducted as of December 31, 2022 we also concluded that the fair value of our licenses, trademark/trade name indefinite lived intangible assets and the technology finite lived intangible asset associated with our mobile app fell below their carrying values and recorded impairments of \$110.0 million, \$5.0 million, and \$38.0 million, respectively.

Our impairment analysis for the licenses intangible asset involved the use of an income approach which estimated the value of the in place in-place licenses as compared to cash flows if the licenses had to be obtained at a delay. Significant judgments used in this analysis are consistent with the inputs used in the income approach for the goodwill impairment analysis and the assumed time to obtain the licenses.

Our impairment analysis for the trademark/trade name involved the use of a relief from royalty approach, which estimates the value of the stream of payments a market participant would pay to make use of the in place trade name. Significant judgments in this analysis include forecasted revenue growth rates and the royalty rate.

The discount rate used in the valuations described above conducted during 2022 was 15.5%, which was 400 basis points higher than the discount rate assumed in the valuation of these intangibles for the VIH Business Combination. The higher discount

-123-

rate reflects the higher risk-free rate and beta observed as of September 30, 2022 and December 31, 2022 as compared to the October 15, 2021 VIH Business Combination valuation date.

Our goodwill was not impacted by foreign currency translation during the year ended December 31, 2023. Our goodwill was impacted by foreign currency translation of less than \$0.1 million during the year ended December 31, 2022 and the periods from October 15, 2021 through December 31, 2021 and January 1, 2021 through October 14, 2021, respectively.

Intangible assets consisted of the following (in thousands):

		Successor					
		December 31, 2022					
		Weighted	Average	Gross	Net		
		Useful	Carrying	Accumulated	Carrying		
		Life	Amount	Amortization	Impairment		
		(in years)					
		December 31, 2023					
		Weighted	Average	Gross	Net		
		Useful	Carrying	Accumulated	Carrying		
		Life	Amount	Amortization	Impairment		
		(in years)					
Licenses	Licenses	Indefinite	\$ 241,320	\$ —	\$ (241,320)	\$ —	
Trademarks / trade names	Trademarks / trade names	Indefinite	39,470	—	(31,470)	8,000	
Technology	Technology	4.2	67,310	(19,605)	(38,035)	9,670	
Customer relationships	Customer relationships	8	44,970	(6,807)	—	38,163	
Total	Total		\$ 393,070	\$ (26,412)	\$ (310,825)	\$ 55,833	

		Successor					
		December 31, 2021					
		Weighted	Average	Gross	Accumulated		
		Useful	Carrying	Amount	Amortization		
		Life	Amount				
		(in years)					
Licenses		Indefinite	\$ 241,320	\$ —	\$ —	\$ —	\$ 241,320
Trademarks / trade names		Indefinite	39,470	—	—	—	39,470
Technology		4.2	67,310	(3,415)	—	—	63,895
Customer relationships		8	44,970	(1,186)	—	—	43,784
Total			\$ 393,070	\$ (4,601)	\$ —	\$ —	\$ 388,469

-110-

		December 31, 2022					
		Weighted	Average	Gross	Accumulated		
		Useful	Carrying	Amount	Amortization		
		Life	Amount				
		(in years)					
Licenses		Indefinite	\$ 241,320	\$ —	\$ (241,320)	\$ —	\$ —

Trademarks / trade names	Indefinite	39,470	—	(31,470)	8,000
Technology	4.2	67,310	(19,605)	(38,035)	9,670
Customer relationships	8	44,970	(6,807)	—	38,163
Total		\$ 393,070	\$ (26,412)	\$ (310,825)	\$ 55,833

Amortization of intangible assets for the years ended December 31, 2023 and December 31, 2022 was \$21.8 million \$8.8 million and is included in "Depreciation and amortization" in the consolidated statements of operations. Amortization of intangible assets for the periods from October 15, 2021 through December 31, 2021 and January 1, 2021 through October 14, 2021 was \$4.6 million and \$5.1 million \$21.8 million, respectively, and is included in "Depreciation and amortization" in the consolidated statements of operations.

Estimated future amortization for definite-lived intangible assets as of December 31, 2022 was December 31, 2023 is zero as follows (in thousands): our finite lived intangible assets have been fully impaired.

Years ending December 31:			
2023		\$ 8,173	
2024		8,196	
2025		8,173	
2026		7,628	
2027		5,621	
Thereafter		10,042	
Total		\$ 47,833	

Intangible assets also include crypto we own, which are accounted for as indefinite-lived intangible assets and are initially measured at cost (under a first-in, first-out basis) under the guidance in ASC 350 *Intangibles - Goodwill and Other*. These assets are not amortized, but assessed for impairment continually given the volatility of markets for these assets. Impairment exists when the carrying amount exceeds its fair value. The fair value of crypto is determined as the lowest price of executed transactions during the measurement or holding period using the quoted price of the crypto in our principal market. The carrying amount of a crypto asset after its impairment becomes its new cost basis. Impairment losses are not reversible or recoverable and are included in "Crypto costs" in the consolidated statement of operations. Impairment losses were not material for the years ended December 31, 2023 and December 31, 2022. Our owned crypto are typically liquidated on a daily basis during the fulfillment of customer orders and settlement with our liquidity providers. We classify cash flows from crypto within cash flows from operating activities.

-124-

6. Consolidated Balance Sheet Components

Accounts Receivable, Net

Accounts receivable, net consisted of the following (in thousands):

		As of		December 31, 2023	December 31, 2022
		December 31, 2022	December 31, 2021		
Trade accounts receivable	Trade accounts receivable	\$ 16,284	\$ 11,404		
Customers, clients and liquidity providers					
Unbilled receivables	Unbilled receivables	6,445	5,448		
Deposits					
Other receivables	Other receivables	2,787	1,500		

Total accounts receivable	Total accounts receivable	25,516	18,352
Less: Allowance for doubtful accounts	Less: Allowance for doubtful accounts	(210)	(210)
Total	Total	\$ 25,306	\$ 18,142

Deposits includes cash, as noted on the consolidated statements of cash flows, at clearing agencies used to settle customer transactions. Amounts payable and receivable to our liquidity providers are reported net by counterparty when the right of offset exists.

Other Current Assets

Other current assets consisted of the following (in thousands):

	December 31, 2023	December 31, 2022
Prepaid expenses	\$ 3,307	\$ 6,060
Other	25	—
Total	\$ 3,332	\$ 6,060

Property, Equipment and Software, Net

Property, equipment and software, net consisted of the following (in thousands):

	As of	
	December 31, 2022	December 31, 2021
Internal-use software	\$ 4,383	\$ 3,550
Purchased software	99	17
Office furniture and equipment	2,303	19
Other computer and network equipment	4,732	2,991
Leasehold improvements	10,102	277
Property, equipment and software, gross	21,619	6,854
Less: Accumulated amortization and depreciation.	(1,875)	(733)
Total	\$ 19,744	\$ 6,121

-111-

	December 31, 2023	December 31, 2022
Internal-use software	\$ —	\$ 4,383
Purchased software	—	99
Office furniture and equipment	—	2,303
Other computer and network equipment	800	4,732
Leasehold improvements	—	10,102
Property, equipment and software, gross	800	21,619
Less: accumulated amortization and depreciation.	(740)	(1,875)
Total	\$ 60	\$ 19,744

For the years ended December 31, 2022, December 31, 2023 and for the periods from October 15, 2021 through December 31, 2021 and January 1, 2021 through October 14, 2021 December 31, 2022, depreciation and amortization expense related to property, equipment and software amounted to \$3.5 million, \$0.8 million \$5.1 million and \$4.4 million \$3.5 million, respectively, of which \$1.7 million, \$0.4 million \$1.8 million and \$3.6 million \$1.7 million, respectively, related to amortization expense of capitalized internal-use software placed in service.

The Company conducted a quantitative impairment test of long-lived assets as of December 31, 2023 and concluded certain leasehold improvements, office furniture and equipment and internal use software were fully impaired. An impairment charge of \$21.3 million was recognized in "Impairment of long-lived assets" in the consolidated statements

-125-

of operations. Significant judgments in this analysis include the division of long-lived assets into asset groups and cashflow assumptions that are consistent with the inputs used in the income approach for the goodwill impairment analysis. See Note 5 for additional information.

The Company conducted a quantitative impairment test of long-lived assets as of December 31, 2022 and concluded certain internal use software associated with the mobile app was fully impaired. An impairment charge of \$8.7 million was recognized in "Impairment of long-lived assets" in the consolidated statements of operations. Significant judgments in this analysis include the division of long-lived assets into asset groups and cashflow assumptions that are consistent with the inputs used in the income approach for the goodwill impairment analysis.

We entered into a software license agreement that required a minimum usage fee of \$0.7 million annually for the contract term. The license was capitalized at the present value of minimum license payments over the contract term. We recognized a corresponding liability for the license payments. The software license was being amortized over the contract term. During the period from October 15, 2021 through December 31, 2021, we terminated the software license agreement. As a result of the termination, we recorded an impairment charge of \$1.2 million for the impairment of the related asset to a fair value of \$0 and income of \$1.3 million for the extinguishment of the related liability based on Level 3 inputs. The impairment charge and income are reflected as "Impairment of long-lived assets" and "Other income (expense), net", respectively.

Deposits with Clearinghouse

Deposits with clearinghouse, noncurrent, consisted of the default resource contribution as described in Note 8. The default resource contribution Total deposits at clearinghouses amounted to \$15.2 million \$0.2 million and \$15.2 million as of December 31, 2022 December 31, 2023 and 2021, December 31, 2022, respectively.

On January 19, 2021, ICUS self-certified a rule change Deposits with clearinghouse historically have primarily consisted of the CFTC, reducing Bakkt Trust's financial contribution to the ICUS guaranty fund to \$15.2 million from \$35.4 million. Following the two-week self-certification period, ICE Clear US, Inc. ("ICUS") default resource contribution; however, as described further in which no comments were received from the CFTC, ICUS proceeded with the reduction. On February 3, 2021, Note 8, ICUS returned \$20.2 million to the contribution on September 29, 2023, as a result of the recent delisting of Bakkt Trust. The default resource contribution includes less than \$0.1 million of cash margins held with ICUS. Bitcoin futures and option contracts by IFUS.

Other Assets

Other assets consisted of the following (in thousands):

		As of			
		December	December		
		31, 2022	31, 2021		
Operating lease	Operating lease				
right-of-use	right-of-use				
assets	assets	\$ 19,632	\$ 11,239		
Other	Other	2,826	2,640		
Total	Total	\$ 22,458	\$ 13,879		

-112-

The Company conducted a quantitative impairment test of long-lived assets as of December 31, 2023 and concluded certain right-of-use assets were fully impaired, while certain other right-of-use assets were partially impaired. An impairment charge of \$8.9 million was recognized in "Impairment of long-lived assets" in the consolidated statements of operations. Significant judgments in this analysis include the division of long-lived assets into asset groups, discount rates and the market comparable properties included in the hypothetical sublease analysis (Level 2 inputs).

Accounts Payable and Accrued Liabilities

Accounts payable and accrued liabilities consisted of the following (in thousands):

		As of			
		December	December		
		31, 2022	31, 2021		
Accounts payable	Accounts payable	December			
		31, 2023			
			December 31, 2023		
				December 31, 2022	

Payables to clients and customers			
Accrued expenses	Accrued expenses	15,537	20,130
Purchasing card payable	Purchasing card payable	10,686	17,698
Salaries and benefits payable	Salaries and benefits payable	13,926	13,349
Loyalty revenue share liability			
Other	Other	663	2,267
Total	Total	\$ 66,787	\$ 64,090

-126-

Other Current Liabilities

Other current liabilities consisted of the following (in thousands):

		As of			
		December	December		
		31, 2022	31, 2021		
December					
31, 2023		December 31, 2023		December 31, 2022	
Participation units	Participation units				
liability, current	liability, current	\$ 275	\$ 2,027		
Current maturities of operating lease	Current maturities of operating lease				
liability	liability	3,014	615		
Other	Other	530	1,075		
Total	Total	\$ 3,819	\$ 3,717		

Other Noncurrent Liabilities

Other noncurrent liabilities consisted of the following (in thousands):

		As of			
		December	December		
		31, 2022	31, 2021		
December					
31, 2023		December 31, 2023		December 31, 2022	
Participation units	Participation units				
liability, noncurrent	\$ —	\$ 2,027			

Operating lease liability, noncurrent	Operating lease liability, noncurrent	23,402	10,647
Total	Total	\$ 23,402	\$ 12,674

Amounts receivable and payable included in the tables above related to our crypto transactions pending settlement with our customers and liquidity providers were settled in early 2024 in amounts consistent with those reflected above.

7. Tax Receivable Agreement

On October 15, 2021, we entered into a Tax Receivable Agreement ("TRA") with certain Opcos **Equity Holders**, **equity holders**. Each Opcos common unit, when coupled with one share of our Class V common stock is referred to as a "Paired Interest." Pursuant to the TRA, among other things, holders of Opcos common units may, subject to certain conditions, from and after April 16, 2022, exchange such Paired Interests for Class A common stock on a one-for-one basis, subject to the terms of the Exchange Agreement, including our right to elect to deliver cash in lieu of Class A common stock and, in certain cases, adjustments as set forth therein. Opcos will have in effect an election under Section 754 of the Internal Revenue Code for each taxable year in which an exchange of Opcos common units for Class A common stock (or cash) occurs.

The exchanges are expected to result in increases in the tax basis of the tangible and intangible assets of Opcos. These increases in tax basis may reduce the amount of tax that we would otherwise be required to pay in the future. These increases in tax basis may also decrease gains (or increase losses) on future dispositions of certain capital assets to the extent tax basis is allocated to those capital assets.

-113-

The TRA provides for the payment by us to exchanging holders of Opcos common units of 85% of certain net income tax benefits, if any, that we realize (or in certain cases is deemed to realize) as a result of these increases in tax basis related to entering into the TRA, including tax benefits attributable to payments under the TRA. This payment obligation is an obligation of the Company and not of Opcos. For purposes of the TRA, the cash tax savings in income tax will be computed by comparing our actual income tax liability (calculated with certain assumptions) to the amount of such taxes that we would have been required to pay had there been no increase to the tax basis of the assets of Opcos as a result of Opcos having an election in effect under Section 754 of the Code for each taxable year in which an exchange of Opcos common units for Class A common stock occurs and had we not entered into the TRA. Such change will be calculated under the TRA without regard to any transfers of Opcos common units or distributions with respect to such Opcos common units before the exchange under the Exchange Agreement to which Section 743(b) or 734(b) of the Code applies. As of **December 31, 2022** **December 31, 2023**, **22,475,871** **25,952,197** Opcos common units were exchanged for Class A common stock. Refer to Note 14 regarding the contingency related to the TRA.

-127-

8. Related Parties

ICE Management and Technical Support

In December 2018, we entered into an intercompany services agreement with ICE to provide management and technical support services. For the period January 1, 2021 through October 14, 2021, \$1.5 million of expense was recorded in connection with this agreement and is reflected as "Related party expenses (affiliate in Predecessor period)" in the consolidated statements of operations. Prior to the VIH Business Combination, ICE also made various payroll distributions and payments to vendors on behalf of Opcos and made unitary state income tax payments on behalf of DACC Technologies, Inc. and Digital Asset Custody Company, Inc. (collectively with DACC Technologies, Inc., "DACC"). We recorded no expense during the year ended December 31, 2022 under this agreement.

Upon consummation of the VIH Business Combination, we entered into a Transition Services Agreement (the "TSA" "ICE TSA") with ICE, which superseded the intercompany services agreement pursuant to which ICE will provide insurance, digital warehouse, data center, technical support, and other transition-related services in exchange for quarterly service fees to be paid payable by us. We recognized **\$1.2 million** **\$2.8 million** and **\$0.6 million** **\$1.2 million** of expense related to the ICE TSA for the years ended **December 31, 2022** **December 31, 2023** and the period from October 15, 2021 through December 31, 2021 **December 31, 2022**, respectively, which are reflected as "Related party expenses (affiliate in Predecessor period)" expenses" in the consolidated statements of operations operations. As of December 31, 2023 and December 31, 2022, we had \$3.0 million and \$1.2 million, respectively, reflected as "Due to related party (affiliate in Predecessor period)" party" in the consolidated balance sheets.

Triparty Agreements

We recognized revenues sheets related to the ICE TSA. The agreement terminated in December 2023.

Triparty Agreement

The Digital Currency Trading, Clearing, and Warehouse Services Agreement ("Triparty Agreement") provided for IFUS to list for trading one or more digital currency futures and/or options contracts, and for ICUS to serve as the clearing house to provide central counterparty and ancillary services for such contracts.

Effective July 28, 2023, IFUS delisted all Bakkt Bitcoin futures contracts other than the August and September 2023 expiry months, and also delisted all Bakkt Bitcoin Option contracts. Following the delisting, no new Bakkt Bitcoin futures or option expiry months were listed for trading. The August and September 2023 expiry months continued to be listed for trading through their regular last trading days, which were August 24 and September 28, 2023 respectively. No material revenues associated with the Triparty Agreement of less than \$0.1 million, less than \$0.1 million were recognized during the years ended December 31, 2023 and \$0.1 million for the year ended December 31, 2022 and the periods from October 15, 2021 through December 31, 2021 and January 1, 2021 through October 14, 2021, respectively, net of rebates and incentive payments (contra-revenue) of less than \$0.1 million, less than \$0.1 million and \$0.2 million for the year ended December 31, 2022 and the periods from October 15, 2021 through December 31, 2021 and January 1, 2021 through October 14, 2021, respectively.

The Triparty Agreement also required Bakkt Trust to make, and, subject to certain limits, to replenish as needed a \$35.4 million default resource contribution to ICUS, to be used by ICUS in accordance with the ICUS rules. As described in Note 6, On September 29, 2023, ICUS returned the Company's \$15.2 million contribution, and effective October 2, 2023, the parties terminated the Triparty Agreement. The contribution requirement was reduced to \$15.0 million in 2021. \$15.2 million as of December 31, 2022. The contribution is included in the was reflected as "Deposits with clearinghouse" noncurrent balance. Interest earned on the contribution, net consolidated balance sheets.

Apex Crypto Technical Support

In connection with our acquisition of certain Apex Crypto, we entered into a Transition Services Agreement (the "Apex TSA") with Apex Fintech Solutions, Inc. ("AFS"), pursuant to which AFS provides technical support and other transition-related services in exchange for quarterly service fees and costs, is paid to Bakkt Trust from ICUS, payable by us. We did not earn any interest for year ended December 31, 2022 or the periods from October 15, 2021 through December 31, 2021 and January 1, 2021 through October 14, 2021.

Prior recognized \$1.1 million of expense related to the VIH Business Combination, we also recognized a capital contribution for the cost of the trading and clearing services provided by IFUS and ICUS pursuant to the Contribution Agreement, which reduced revenue attributable to the Triparty Agreement by \$0.2 million for the period from January 1, 2021 through October 14, 2021 (Note 10). We did

-114-

not recognize a material reduction in revenue related to this capital contribution for Apex TSA during the year ended December 31, 2022 or the period from October 15, 2021 through December 31, 2021.

Pursuant to a separate triparty agreement among ICE Futures Singapore ("IFS") December 31, 2023, ICE Clear Singapore ("ICS") and Opclo, IFS and ICS provide trade execution and clearing services to customers that trade the cash-settled futures. To date, the cash settled contracts have not resulted in material net revenues payable to Opclo. We expect the cash-settled futures contracts to be discontinued which is reflected as "Related party expenses" in the first quarter consolidated statements of 2023 and do not expect this to have a material impact on our business.

operations. As of December 31, 2022 and 2021, December 31, 2023, we had \$1.2 million and \$0.6 million, respectively, \$0.2 million reflected as "Due to related party (affiliate in Predecessor period)" party in the consolidated balance sheets related to the intercompany services agreement and Triparty Agreement. As of December 31, 2022, we did not have any amounts recorded within "Accounts receivable, net" in the consolidated balance sheets related to the intercompany services agreement and Triparty Agreement. As of December 31, 2021, we had \$0.1 million recorded within "Accounts receivable, net" in the consolidated balance sheets related to the intercompany services agreement and Triparty Agreement.

Other Contractual Relationships with ICE

Prior to the withdrawal of Bakkt Clearing's ICUS membership on May 20, 2020, Bakkt Clearing was required to hold shares of ICE stock for ICUS membership privileges. These shares were carried at cost basis and evaluated periodically for impairment. In connection with the withdrawal of Bakkt Clearing's ICUS membership, these shares were remeasured at fair value, with unrealized gains and losses being reflected as "Other income (expense), net" in the consolidated statements of operations. In June 2021, Bakkt Clearing sold all of its shares of ICE stock. For the period from January 1, 2021 through October 14, 2021, we recorded a realized loss on the sale of shares of affiliate stock of \$0.1 million. Apex TSA.

9. Warrants

As of December 31, 2022 December 31, 2023 and December 31, 2021 December 31, 2022, there were 7,140,808 and 7,141,035 public warrants outstanding, respectively. There were no private placement warrants outstanding at either year end. Public warrants may only be exercised for a whole number of shares. No fractional shares will be issued upon exercise of a public warrant. Each warrant entitles its holders to purchase one share of Class A common stock at an exercise price of \$11.50 per share. The public warrants and private placement warrants became exercisable on November 15, 2021. The public warrants will expire on October 15, 2026, or earlier upon redemption or liquidation. We may redeem the outstanding warrants when various conditions are met, such as specific stock prices, as detailed in the specific warrant agreements. The warrants are recorded as a liability and reflected as "Warrant liability" in the consolidated balance sheets.

During the year ended December 31, 2023, we did not issue any shares of Class A common stock in exchange for the exercise of public warrants, nor did we receive any proceeds from the exercise of the public warrants. During the year ended December 31, 2022, we issued 221 shares of Class A common stock in exchange for the exercise of 221 public warrants. We received less than \$0.1 million in proceeds from the exercise of the public warrants. We recognized a loss

-128-

from the change in fair value of the warrant liability during the year ended December 31, 2023 of \$1.6 million, which is reflected in "(Loss) gain from change in fair value of warrant liability" in the consolidated statements of operations. We recognized a gain from the change in fair value of the warrant liability during the year ended December 31, 2022 of \$16.6 million, which is reflected in "Gain (loss) (Loss) gain from change in fair value of warrant liability" in the consolidated statements of operations.

During the period from October 15, 2021 through December 31, 2021, we issued 7,194,928 shares of Class A common stock in exchange for the exercise of 3,227,566 public warrants and the cashless exercise of 6,147,440 private placement warrants. We received \$37.1 million in proceeds from the exercise of the public warrants. We recognized a loss from the change in fair value of the warrant liability during the period from October 15, 2021 through December 31, 2021 of \$79.4 million.

-115-

10. Stockholders' Equity

Preferred Stock

We are authorized to issue 1,000,000 shares of preferred stock with a par value of \$0.0001 per share. The holders of a series of preferred stock shall be entitled only to such voting rights as shall expressly be granted thereto by the Certificate of Incorporation (including any certificate of designation relating to such series of preferred stock). As of December 31, 2022 December 31, 2023, no shares of preferred stock have been issued.

Common Stock

Class A Common Stock

We are authorized to issue 750,000,000 shares with a par value of \$0.0001 per share. Each holder of record of Class A common stock is entitled to one vote for each share of Class A common stock held on all matters on which stockholders generally or holders of Class A common stock as a separate class are entitled to vote, including the election or removal of directors (whether voting separately as a class or together with one or more classes of our capital stock). As of December 31, 2022 December 31, 2023 and December 31, 2021 December 31, 2022, there were 80,926,843 94,845,942 and 57,164,388 80,926,843 shares of Class A common stock issued and outstanding, respectively.

Dividends

Subject to preferences that may be applicable to any outstanding preferred stock, the holders of shares of Class A common stock are entitled to receive ratably such dividends, if any, as may be declared from time to time by our Board out of funds legally available therefor. As of December 31, 2022 December 31, 2023, no dividends have been declared.

Liquidation

In the event of any voluntary or involuntary liquidation, dissolution or winding up of our affairs, the holders of Class A common stock are entitled to share ratably in all assets remaining after payment of our debts and other liabilities, subject to prior distribution rights of preferred stock or any class or series of stock having a preference over the Class A common stock, then outstanding, if any.

Class V Common Stock

We are authorized to issue 250,000,000 shares with par value \$0.0001 per share. These shares have no economic value but entitle the holder to one vote per share. Each Opco common unit, when coupled with one share of our Class V common stock is referred to as a "Paired Interest." Paired Interests may be exchanged for one share of our Class A common stock or a cash amount in accordance with the Third Amended and Restated Limited Liability Company Agreement of Opco and the Amended and Restated Exchange Agreement. Holders of Paired Interests became eligible on April 16, 2022 under the Exchange Agreement dated October 15, 2021, to exchange their Paired Interests for Class A common stock, or, at our election, cash in lieu thereof. Since During the expiration of the six-month lock-up period on April 16, 2022 year ended December 31, 2023, holders of there were 3.5 million Paired Interests exchanged an aggregate of 22.5 million Paired Interests for shares of our Class A common stock, and the Company did not elect to settle any such exchanges in cash. As of December 31, 2022 December 31, 2023 and December 31, 2021 December 31, 2022, there were 183,482,777 180,001,606 and 206,271,792 183,482,777 shares of Class V common stock issued and outstanding, respectively.

-129-

Dividends

Dividends shall will not be declared or paid on the Class V common stock.

-116-

Liquidation

In the event of any voluntary or involuntary liquidation, dissolution or winding up of our affairs, the holders of Class V common stock shall not be entitled to receive any of our assets.

Restrictions

In the event that any outstanding share of Class V common stock ceases to be held directly or indirectly by a holder of Opco common units, such share will automatically be transferred to us and cancelled for no consideration. We will not issue additional shares of Class V common stock, other than in connection with the valid issuance or transfer of Opco common units in accordance with Opco's Third Amended and Restated Limited Liability Company Agreement (the "LLC Agreement").

Noncontrolling Interest

The following table summarizes the ownership **interests** in **Bakkt Opco Holdings, LLC** as of **December 31, 2022**, **December 31, 2023** and **December 31, 2021**, **December 31, 2022**:

	December 31, 2022		December 31, 2021	
	Opco Common Units	Ownership %	Opco Common Units	Ownership %
Opco Common Units held by Bakkt Holdings, Inc.	80,926,843	31 %	57,164,388	22 %
Opco Common Units held by noncontrolling interest holders	183,482,777	69 %	206,271,792	78 %
Total Opco Common Units outstanding	264,409,620	100 %	263,436,180	100 %

	December 31, 2023		December 31, 2022	
	Opco Common Units	Ownership %	Opco Common Units	Ownership %
Opco common units held by Bakkt Holdings, Inc.	94,845,942	35 %	80,926,843	31 %
Opco common units held by noncontrolling interest holders	180,001,606	65 %	183,482,777	69 %
Total Opco common units outstanding	274,847,548	100 %	264,409,620	100 %

The weighted average ownership percentages for the applicable reporting periods are used to attribute net loss and other comprehensive loss to **Bakkt Holdings, Inc.**, the **Company** and the noncontrolling interest holders. The noncontrolling interest holders' weighted average ownership percentage for the **year** ended **December 31, 2023** and **December 31, 2022** was **67.0%** and the period from **October 15, 2021** through **December 31, 2021** was **72.6%** and **78.9%**, respectively.

Members' Equity

Prior to the VIH Business Combination, Opco had three classes of voting units – Class A, Class B and Class C voting units – and incentive units granted under the Opco Incentive Equity Plan (the "Opco Plan"). See Note 11 for further information.

In December 2018, pursuant to the contribution agreement between Opco and ICE in connection with ICE's formation of Opco (the "Contribution Agreement"), ICE committed to contribute developed assets and licenses in exchange for 400,000,000 Class A voting units. The primary value contributed by ICE was the access to the trading and clearing services to be provided for the duration of the Triparty Agreement. Prior to 2020, ICE had contributed developed technology assets of \$1.7 million, which is included in "Property, equipment and software, net" (see Note 6). The contribution from ICE and associated increase in "Members' equity" for the Class A voting units issued was recognized over time as the services were provided. During the period from January 1, 2021 through October 14, 2021, ICE contributed \$0.2 million of exchange and clearing license value based on costs incurred by IFUS and ICUS for executing and clearing bitcoin futures under the Triparty Agreement. This is shown as a reduction to "Net revenues" in the consolidated statements of operations and an increase to "Members' equity" in the balance sheets. The reduction to revenue for the year ended December 31, 2022 and the period from October 15, 2021 through December 31, 2021 was immaterial.

Each Class B voting unit was convertible at the option of the voting unit holder any time into Class A voting units using a defined conversion price formula. All Class B voting units were to convert automatically to Class A voting units in the event of an initial public offering.

In connection with the VIH Business Combination, (Note 4), the Opco equity holders converted 400,000,000 Opco Class A voting units, 192,453,454 Opco Class B voting units, and 270,270,270 Opco Class C voting units to 189,933,286 shares of Class V common stock on a pro rata basis. Additionally, we issued 17,473,362 shares of Class V common stock related to the outstanding Opco incentive units.

Issuance of Class B Warrant

On February 19, 2020, Opco issued a warrant to a strategic partner to purchase 15,000,000 of Opco's Class B voting units ("Class B Warrant"), at an exercise price of \$1.00 per unit, exercisable upon issuance, that expired 3 years from issuance.

The fair value of the Class B Warrant at the issuance date was measured using the Black-Scholes model. The key inputs used in the valuation were as follows:

	As of February 19, 2020
Dividend yield	— %
Risk-free interest rate	1.39 %
Expected volatility	40.00 %
Expected term (years)	3.00

Estimates were determined as follows (i) expected term based on the warrant's contractual period, (ii) based on the blended volatilities of comparable public companies, (iii) risk-free interest rates based on the U.S. Treasury yield for the expected term, and (iv) an expected dividend yield of zero percent was used since we did not yet and do not yet presently expect to pay dividends.

On April 6, 2021, the strategic partner elected to net exercise its Class B Warrant in exchange for 9,953,454 of Class B voting units.

Since the strategic partner was also a customer of the Company, the issuance of the warrant was determined to be consideration payable to a customer and was recognized as a unit-based sales incentive at fair value on the warrant's issuance date of \$5.4 million, with a corresponding asset recognized and amortized over the term of the customer contract as a reduction to revenue. In October 2021, we updated our assessment of future revenue from its relationship with the strategic partner and determined that the carrying value of the customer consideration asset exceeded the revenue less cost to provide service expected to be recognized from this relationship. As a result, we recorded an impairment charge of \$3.6 million to measure the fair value of the customer consideration asset at \$0 based on Level 3 inputs. The impairment charge is reflected as "Impairment of long-lived assets". Accordingly, Successor period transaction fees no longer reflect a reduction for the recognition of the customer consideration asset.

Issuance of Class C Warrant

In May, 2020, Opco issued a warrant to a minority investor to purchase 3,603,600 of Opco's Class C voting units ("Class C Warrant"), at an exercise price of \$1.11 per unit. The warrant vests upon the fulfillment of certain service conditions, with an expiration date of September 23, 2024. The fair value of the warrant on the grant date was estimated to be \$1.6 million.

-118- -130-

In August 2021, Opco amended the Class C Warrant to change the service conditions for 781,515 warrant units. The service conditions for the remaining 2,822,085 units were unchanged.

Opco accounted for the amendment as a modification and remeasured the fair value of the modified warrant units on the modification date using the Black-Scholes model. The fair value of the modified warrant units on modification date was estimated to be \$1.0 million. The key inputs used in the valuation were as follows:

Dividend yield	— %
Risk-free interest rate	0.41 %
Expected volatility	45.00 %
Expected term (years)	3.06

Estimates of expected term were based on the contractual period of the warrants. Estimates of the volatility for the Black-Scholes model were based on the blended volatilities of comparable public companies. The risk-free interest rates were based on the U.S. Treasury yield for a term consistent with the expected term. Opco had neither declared or paid any cash dividends and did not plan to pay cash dividends in the foreseeable future as of the issuance date. As a result, an expected dividend yield of zero percent was used.

In connection with the VIH Business Combination, the modified warrant units automatically converted into the right to purchase 793,352 Paired Interests in Opco at an exercise price of \$1.11 \$5.04 per Paired Interest. As of December 31, 2022 December 31, 2023 and December 31, 2021 December 31, 2022, 172,055 modified warrant units have vested but have not been exercised, and the remaining 621,297 warrant units have not vested or been exercised. We recorded \$1.0 million of expense during the period from January 1, 2021 through October 14, 2021 upon the vesting of the modified warrant units which is reflected in "Selling, general and administrative" in the consolidated statements of operations. No expenses were recorded in the year years ended December 31, 2022 December 31, 2023 or the period from October 15, 2021 through December 31, 2021 December 31, 2022 since the service conditions were not probable of being met in those periods.

11. Share-Based and Unit-Based Compensation

2021 Incentive Plan

Our 2021 Omnibus Incentive Plan, as amended (the "2021 Incentive Plan"), became effective on the Closing Date with the approval of VIH's shareholders and the Board of Directors. The 2021 Incentive Plan allows us to make equity and equity-based incentive awards to employees, non-employee directors and consultants. There are initially 25,816,946 shares of Class A common stock reserved for issuance under the 2021 Incentive Plan which can be granted as stock options, stock appreciation rights, restricted shares, restricted stock units (RSUs) ("RSUs"), performance stock units (PSUs) ("PSUs"), dividend equivalent rights and other share-based awards. On June 6, 2023, the 2021 Incentive Plan was amended to increase by 26,590,466 shares the number of authorized shares of Class A common stock available for issuance for a new aggregate total of 52,407,412 shares authorized. No award may vest earlier than the first anniversary of the date of grant, except under subject to limited conditions.

Share-Based Compensation Expense

During the year ended December 31, 2023, we granted 7,783,077 RSUs and 673,627 PSUs, which represents 100% of the target award, to employees and directors. During the year ended December 31, 2022, we granted 10,251,747 RSUs and 5,116,984 PSUs, which represents 100% of the target award, to employees and directors.

We recorded \$31.6 million \$15.1 million and \$1.0 million \$23.9 million of share-based compensation expense related to RSUs for the years ended December 31, 2023 and December 31, 2022, respectively. We recorded \$0.3 million and \$7.7 million of share-based compensation expense related to PSUs for the period from October 15, 2021 through December 31, 2021 years ended December 31, 2023 and December 31, 2022, respectively, which respectively. Share-based compensation expense for both RSUs and PSUs is included in "Compensation and benefits" in the consolidated statements of operations. We recorded \$23.9 million and \$1.0 million of share-based compensation expense related to RSUs for the year ended December 31, 2022 and for the period from October 15, 2021 through December 31, 2021, respectively. We recorded \$7.7 million of share-based compensation expense related to PSUs for the year ended December 31, 2022. We did not record any share-based compensation expense related to PSUs for the period from October 15, 2021 through December 31, 2021.

-119- -131-

Unrecognized compensation expense as of December 31, 2023 and December 31, 2022, respectively, was \$14.3 million and \$29.9 million for the RSUs and PSUs. The unrecognized compensation expense as of December 31, 2023 and December 31, 2022 will be recognized over a weighted-average period of 1.38 years and 2.05 years, respectively.

RSU and PSU Activity

The following table summarizes RSU and PSU activity under the 2021 Incentive Plan for the years ended December 31, 2022 December 31, 2023 and the period October 15, 2021 through December 31, 2021 December 31, 2022 (in thousands, except per unit data):

RSUs and PSUs	Weighted						RSUs and PSUs	Number of Shares	Successor			Weighted Average Fair Value	Aggregate Intrinsic Value				
	RSUs and PSUs	Number of Shares	Contractual Term (years)	Date Fair Value	Intrinsic Value	Aggregate			Weighted Average Remaining Contractual Term (years)								
									Average Remaining Contractual Term (years)	Number							
Outstanding as of October 15, 2021	—																
Outstanding as of December 31, 2021																	
Granted	Granted	2,142		\$ 9.18	\$ 19,669												
Forfeited	Forfeited	—															
Vested	Vested	—															
Outstanding as of December 31, 2021	2,142		1.51	\$ 9.18													
Vested																	
Outstanding as of December 31, 2022																	

Outstanding as of December 31, 2022				
Outstanding as of December 31, 2022				
Granted				
Granted				
Granted	Granted	15,369	\$ 3.94	\$ 60,583
Forfeited	Forfeited	(1,885)		
Vested	Vested	(1,844)		
Outstanding as of December 31, 2022	13,782	2.05	\$ 4.05	
Vested				
Vested				
Outstanding as of December 31, 2023				
Outstanding as of December 31, 2023				
Outstanding as of December 31, 2023				

During the **year** years ended December 31, 2023 and December 31, 2022, we recorded \$2.3 million and \$2.0 million, respectively, of share-based compensation expense related to the accelerated vesting for certain employees that were **terminated**, **terminated**, primarily related to the Company's restructuring efforts. Acceleration of share-based compensation expense related to the Company's restructuring efforts is included in "Restructuring expenses" in the consolidated statements of operations. We also recorded reversal of share-based compensation expense of \$2.0 million and \$1.9 million during the **year** years ended December 31, 2023 and December 31, 2022, respectively, for **pre-vesting** forfeitures, primarily related to executive resignations and the Company's restructuring efforts. Reversal of RSUs, a portion share-based compensation expense related to the Company's restructuring efforts is included in "Restructuring expenses" in the consolidated statements of which is described below, operations.

Total fair value of vested RSU and PSU awards was \$8.7 million and \$6.5 million for the years ended December 31, 2023 and December 31, 2022, respectively.

During the fourth quarter of 2022, the Company announced a restructuring plan to further focus the business. This restructuring plan included a reduction in workforce, impacting 22 employees that had outstanding RSUs. We modified the terms of the awards with these employees waiving the continued service requirement for the first tranche of outstanding RSUs if those awards would vest during the 60 days following their separation date. Any awards vesting after the 60 days would be forfeit, consistent with the terms of the 2021 Incentive Plan. We accounted for the modification of these awards as a new grant, including determining the grant date fair value on the date of the modification. The modified grant date fair value, combined with the forfeitures of the awards, resulted in a reversal of \$1.0 million of previously recognized share-based compensation expense.

The fair value of the RSUs and PSUs used in determining share-based compensation expense is based on the closing price of our common stock on the grant date.

PSUs provide an opportunity for the recipient to receive a number of shares of our common stock based on various performance metrics. Upon vesting, each performance stock unit equals one share of common stock of the Company. We accrue compensation expense for the PSUs based on our assessment of the probable outcome of the performance conditions. The metrics for PSUs granted during 2022 relate to our performance during fiscal years 2022,

-132-

2023 and 2024, as measured against objective performance goals as determined by the Board. The actual number of units earned may range from 0% to 150% of the target number of units depending upon achievement of **the** each year's performance goals. PSUs granted in 2022 vest in three equal annual installments, subject to a catch-up provision based over the three annual performance targets. The metrics for PSUs granted during 2023 relate to our performance during fiscal year 2023, as measured against objective performance goals approved by the Board. The actual number of units earned may range from 0% to 150% of the target number of units depending upon the achievement of the final 2023 performance goals. PSUs granted in 2023 vest in three equal annual target. Upon vesting, each performance stock unit equals one share of common installments from 2024 to 2026.

-120-

stock of the Company. We accrue compensation expense for the PSUs based on our assessment of the probable outcome of the performance conditions.

Opcos Plan

In December 2018, Opco established the Opco Plan. The purpose of the Opco Plan was to provide incentives to selected employees, directors, and service providers to promote long-term growth and profitability. Three types of awards may be granted under the Opco Plan: (1) preferred incentive units, (2) common incentive units, and (3) participation units. The total number of units that Opco was authorized to issue under the Opco Plan was 156,000,000, which were granted at the discretion of the Compensation Committee of the Board of Directors of the Company.

Preferred incentive units and common incentive units (collectively, "incentive units") represent an ownership interest in Opco and are entitled to receive distributions from Opco, subject to certain vesting conditions. Opco classifies incentive units as equity awards on its consolidated balance sheets.

Participation units, issued directly by Opco to Opco Plan participants, do not represent an ownership interest in Opco but rather provide Opco Plan participants the contractual right to participate in the value of Opco, if any, through either a cash payment or issuance of Class A common stock upon the occurrence of certain events following vesting of the participation units. Because participation units ~~are~~ have historically been settled in cash, Opco classifies at the Company's discretion, the Company classified participation units as liability awards on its consolidated balance sheets as of December 31, 2022. At the Company's discretion, the Company settled the final tranche of vested participation units in October 2023 by issuing 111,794 shares of Class A common stock in lieu of making cash payments.

The units are unvested on the grant date and are subject to the vesting terms in the award agreement. They do not receive distributions until such units are vested. The units vest subject to continuous employment through the vesting date (subject to limited exceptions), and the achievement of certain performance and market conditions. A portion of the units may be subject to vesting upon a liquidity event, initial public offering, or partial exit event, or to the extent any incentive units and participation units remain outstanding and unvested on the date that is the eight-year anniversary of the launch of one of Opco's services in a production environment, which occurred on September 23, 2019, these remaining units will vest based on the calculated fair market value of Opco as of such date. The VIH Business Combination was an initial public offering vesting event contemplated in the Opco Plan.

On December 19, 2018, Opco and Bakkt Management, LLC (the "Management Vehicle"), a wholly-owned subsidiary of Opco, entered into the Back-to-Back Agreement. The Management Vehicle has no substantive operations, and its sole purpose is to own incentive units in Opco. Under the Back-to-Back Agreement, Opco granted incentive units to the Management Vehicle, which is a member of Opco, and the Management Vehicle issued economically identical membership interests in the Management Vehicle ("Management incentive units") to employees. Any employees who receive Management incentive units have an ownership interest in the Management Vehicle, which corresponds to an indirect ownership interest in Opco. Beginning on the 4th anniversary of the date that an incentive unit vests and assuming that Opco had not consummated an IPO or Liquidity Event, the Management Vehicle had the right, but not the obligation, to require Opco to purchase all of the incentive units then held by the Management Vehicle, for a period of four years. As such, Opco classified the incentive units as "Mezzanine equity" on the balance sheet due to this put option which represented a redemption feature. Since the incentive units reached a vesting event due to the VIH Business Combination, the Management Vehicle no longer has the right to require Opco to purchase all of the incentive units held by the Management Vehicle. Accordingly, since the Closing Date, the Company classifies the incentive units as "Noncontrolling interest" in the consolidated balance sheets.

In May 2020, Opco amended the Opco Plan. Under the modified Opco Plan, participants have the opportunity to continue to hold unvested units upon voluntary resignation of employment. The number of unvested units that a participant can continue to hold depends on the number of years that the participant was employed. Non-forfeited units vest upon the occurrence of a vesting event, as defined in the Opco Plan, subject to time restrictions. The modification to the Opco Plan did not result in additional compensation expense being recognized because the fair value of the units immediately before and after the modification was the same.

-121- -133-

In anticipation of the VIH Business Combination, certain incentive unit awards granted under the Opco Plan in late 2020 were modified. The modification was approved in April 2021. The modification required Opco to redeem 40% of the first one-third of certain employee awards which were scheduled to vest upon consummation of the VIH Business Combination. Upon consummation of the VIH Business Combination, we paid \$1.5 million to award holders for the redemption. This amount is included in the purchase consideration paid to Opco Equity Holders (Note 4). As this obligation was contingent upon consummation of the VIH Business Combination, Opco did not recognize any additional unit-based compensation expense as a result of the modification for the period from January 1, 2021 through October 14, 2021.

Upon consummation of the VIH Business Combination, the 76,475,000 outstanding preferred incentive units and 23,219,745 outstanding common incentive units were converted into 17,473,362 Successor common incentive units, and the 10,811,502 outstanding participation units were converted into 1,197,250 Successor participation units. Contemporaneously with the conversion, approximately one-third of the awards in the Opco Plan vested. In November 2021, we made total payments of \$5.2 million to settle the vested participation units. These payments are included in "Other assets and liabilities" in the statements of cash flows. The second tranche vested on the one-year anniversary of the Closing Date and the third tranche will vest on the two-year anniversary of the Closing Date, although under the terms of the Opco Plan, employees who are terminated without cause after the Closing Date will vest in the unvested portion of their awards immediately upon their termination date. There has not been, and will not be, any additional awards made under the Opco Plan following the VIH Business Combination.

Unit-Based Compensation Expense

Unit-based compensation expense for the ~~year~~ years ended December 31, 2022 December 31, 2023 and the period from October 15, 2021 through December 31, 2021 December 31, 2022, was as follows (in thousands):

Type of unit	Type of unit	Successor		Type of unit	Year Ended December 31, 2023	Year Ended December 31, 2022
		October	Year 15, 2021			
		Year	Ended	Ended	Year Ended December 31, 2023	Year Ended December 31, 2022

Common incentive unit	Common incentive unit	\$ 3,663	\$ 42,376
Participation unit	Participation unit	(3,291)	2,516
Total	Total	\$ 372	\$ 44,892

Unit-based compensation expense for the period from January 1, 2021 through October 14, 2021 As of December 31, 2023, all Common Incentive Units and Participation Units had vested or been forfeited and there was as follows (in thousands):

Type of unit	Predecessor	
	January 1, 2021 through	October 14, 2021
Preferred incentive unit		\$ 14,091
Common incentive unit		12,447
Participation unit		7,339
Total		\$ 33,877

Included in the no unrecognized unit-based compensation expense for the period from October 15, 2021 through December 31, 2021 is \$47.2 million of accelerated expense related to the incremental fair value of Successor common incentive and participation units based on remeasurement of the fair value of common incentive units and participation units in the Opcos Plan on the Closing Date, as well as acceleration of expense for non-substantive service. This increase in expense was partially offset by the reversal of expense previously recorded for forfeitures of preferred and common incentive units made by certain former employees.

-122-

Included in the unit-based compensation expense for the period January 1, 2021 through October 14, 2021 is \$30.6 million of accelerated expense related to the one-third of the incentive units and participation units in the Opcos Plan which vested upon consummation of the VIH Business Combination expense.

Unrecognized compensation expense as of December 31, 2022 was \$1.4 million for common incentive units. The unrecognized compensation expense will be recognized over a weighted-average period of 0.79 years. There was no unrecognized compensation expense for participation units as of December 31, 2022 December 31, 2023.

Unrecognized compensation expense as of December 31, 2021 was \$5.7 million and \$1.9 million for common incentive units and participation units, respectively. The unrecognized compensation expense will be recognized over a weighted-average period of 1.79 years.

Incentive Unit Activity

The following tables summarize common table summarizes incentive unit activity under the Opcos Plan for the years ended December 31, 2022 December 31, 2023 and the period October 15, 2021 through December 31, 2021 December 31, 2022 (in thousands, except per unit data):

Common Incentive Units	Successor				
	Number of Common Incentive Units	Weighted Average Remaining Contractual Term (years)	Weighted Average Grant Date Fair Value	Aggregate Intrinsic Value	
Outstanding as of October 15, 2021	17,473	2.00 \$	6.30 \$		109,998
Granted	—				
Forfeited	(1,134)				
Exchanged	—				
Outstanding as of December 31, 2021	16,339	1.79 \$	6.30 \$		133,240
Granted	—				
Forfeited	(313)				
Exchanged	(7,732)				
Outstanding as of December 31, 2022	8,294	0.79 \$	6.30 \$		67,635

The following tables summarize preferred incentive unit and common incentive unit activity under the Opcos Plan for the period from January 1, 2021 through October 14, 2021 (in thousands, except per unit data):

Predecessor					
Preferred Incentive Units	Number of Preferred Incentive Units	Weighted Average			Aggregate Intrinsic Value
	Remaining Contractual Term (years)	Weighted Average Grant Date Fair Value			
Outstanding as of December 31, 2020	76,475	6.75 \$	0.42 \$	88,711	
Granted	—				
Forfeited	—				
Vested	—				
Outstanding as of October 14, 2021	76,475	6.04 \$	0.42 \$	141,058	

Incentive Units	Number of Incentive Units	Weighted Average			Aggregate Intrinsic Value
		Remaining Contractual Term (years)	Weighted Average Grant Date Fair Value		
Outstanding as of December 31, 2021	16,339	1.79 \$	6.30 \$	133,240	
Granted	—				
Forfeited	(313)				
Exchanged	(7,732)				
Outstanding as of December 31, 2022	8,294	0.79 \$	6.30 \$	67,635	
Granted	—				
Forfeited	(5)				
Exchanged	(568)				
Outstanding as of December 31, 2023	7,721	0 \$	6.67 \$	51,467	

-123- -134-

Predecessor					
Common Incentive Units	Number of Common Incentive Units	Weighted Average			Aggregate Intrinsic Value
	Remaining Contractual Term (years)	Weighted Average Grant Date Fair Value			
Outstanding as of December 31, 2020	26,833	6.75 \$	0.43 \$	25,760	
Granted	—				
Forfeited	(3,613)		\$	0.39	
Vested	—				
Outstanding as of October 14, 2021	23,220	6.04 \$	0.53 \$	25,605	

There were no unvested Incentive Units as of December 31, 2023.

There were no participation units granted during the years ended December 31, 2022 December 31, 2023 or the period from October 15, 2021 through December 31, 2021 December 31, 2022. As of December 31, 2023, there were less than 0.1 million no participation units granted during outstanding. As of December 31, 2022, the period from January 1, 2021 through October 14, 2021. The total number of participation units outstanding as of December 31, 2022 and December 31, 2021 were 0.2 million and 0.7 million, respectively. During the year ended December 31, 2022 we made cash payments of \$0.5 million to settle vested participation units. During the period from October 15, 2021 through December 31, 2021 we made cash payments of \$5.2 million to settle vested participation units. We did not make any cash payments to settle vested participation units during the period from January 1, 2021 through October 14, 2021. During the period from October 15, 2021 through December 31, 2021, we granted certain employees awards, which are payable over a two-year period in cash or shares of Class A common stock in an amount that will fluctuate based on the trading price of Class A common stock. We included these awards in the amounts above as they are subject to the same accounting as the participation units. The fair value of the participation units as of December 31, 2022 and December 31, 2021, was \$0.3 million. During the years ended December 31, 2023 and \$4.1 million December 31, 2022 we made cash payments of less than \$0.1 million and \$0.5 million, respectively. Participation respectively, to settle vested participation units. At the Company's discretion, the Company settled the final tranche of vested participation

units are settled in October 2023 by issuing 111,794 shares of Class A common stock in lieu of making cash and the balance is recorded within other current liabilities and other noncurrent liabilities as described in Note 6. payments.

Determination of Fair Value

The fair value of incentive and participation units granted is calculated through a Monte Carlo simulation based on various outcomes. Opcos determined that a Monte Carlo simulation was an appropriate estimation model because of the market condition associated with the vesting of the units. The determination of the fair value of the units is affected by Opcos stock price and certain assumptions such as Opcos expected stock price volatility over the term of the units, risk-free interest rates, and expected dividends, which are determined as follows:

- Expected term – The expected term represents the period that a unit is expected to be outstanding.
- Volatility – Opcos has limited historical data available to derive its own stock price volatility. As such, Opcos estimates stock price volatility based on the average historic price volatility of comparable public industry peers.
- Risk-free interest rate – The risk-free rate is based on the U.S. Treasury yield curve in effect on the grant date for securities with similar expected terms to the term of Opcos incentive units.
- Expected dividends – Expected dividends is assumed to be zero as Opcos has not paid and does not expect to pay cash dividends or non-liquidating distributions.
- Discount for lack of marketability – an estimated two year time to exit Predecessor certain awards and the six month lock-up restriction on Successor certain awards is reflected as a discount for lack of marketability estimated using the Finnerty model.

-124-

The inputs used in the models to estimate the fair value of the common incentive units and participation units granted in 2021 are summarized as follows:

	Successor	December 31, 2021
Dividend yield		—%
Risk-free interest rate		0.06% - 0.36%
Expected volatility		51.00% - 53.00%
Expected term (years)		0.50 - 2.00
Discount for lack of marketability		0.082

12. Net Loss per Share

Basic earnings per share is based on the weighted average number of shares of Class A common stock issued and outstanding during the Successor period. Diluted earnings per share is based on the weighted average number shares of Class A common stock issued and outstanding and the effect of all dilutive common stock equivalents and potentially dilutive share-based awards outstanding during the Successor period. For the Successor period, there outstanding. There is no difference in the number of shares used to calculate basic and diluted shares outstanding due to our net loss position. The potentially dilutive securities that would be anti-dilutive due to our net loss are not included in the calculation of diluted net loss per share attributable to controlling interest. The anti-dilutive securities are included in the table below.

-135-

The following is a reconciliation of the denominators of the basic and diluted per share computations for net loss (in thousands, except share and per share data):

		October 15, 2021	
Year ended	through		
December	December		
31, 2022	31, 2021		
Year Ended			
December 31,			
2023			
Net loss per	Net loss per	Year Ended December 31, 2023	Year Ended December 31, 2022
share:	share:		

Numerator – basic and diluted:	Numerator – basic and diluted:
Numerator – basic and diluted:	
Net loss	
Net loss	
Net loss	Net loss \$(1,989,934) \$ (164,827)
Less: Net loss attributable to noncontrolling interest	Less: Net loss attributable to noncontrolling interest (1,411,829) (120,832)
Net loss attributable to Bakkt Holdings, Inc. – basic	Net loss attributable to Bakkt Holdings, Inc. – basic \$ (578,105) \$ (43,995)
Net loss and tax effect attributable to noncontrolling interests	Net loss and tax effect attributable to noncontrolling interests \$ — \$ —
Net loss attributable to Bakkt Holdings, Inc. – diluted	Net loss attributable to Bakkt Holdings, Inc. – diluted \$ (578,105) \$ (43,995)
Denominator – basic and diluted:	Denominator – basic and diluted:
Denominator – basic and diluted:	
Denominator – basic and diluted:	
Weighted average shares outstanding – basic	Weighted average shares outstanding – basic
Weighted average shares outstanding – basic	Weighted average shares outstanding – basic
Weighted average shares outstanding – basic	Weighted average shares outstanding – basic 71,167,992 54,018,064
Weighted average shares outstanding – diluted	Weighted average shares outstanding – diluted 71,167,992 54,018,064
Net loss per share – basic	Net loss per share – basic \$ (8.12) \$ (0.81)
Net loss per share – basic	
Net loss per share – basic	

Net loss per share – diluted	Net loss per share – diluted	\$ (8.12)	\$ (0.81)
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Potential common shares issuable to employees or directors upon exercise or conversion of shares under our share-based and unit-based compensation plans and upon exercise of warrants are excluded from the computation of diluted earnings per common share when the effect would be anti-dilutive.

-125-

No shares that are contingently issuable as part of the Bakkt Crypto acquisition have been included in the calculation of diluted EPS as no amounts are payable as of December 31, 2023. The following table summarizes the total potential common shares excluded from diluted loss per common share as their effect would be anti-dilutive (in thousands):

		October	
		Year ended	through
		December 31, 2022	December 31, 2021
RSUs		9,173	2,142
PSUs		4,609	—
As of December 31, 2023		As of December 31, 2023	
RSUs and PSUs			
Public warrants	Public warrants	7,141	7,141
Opco warrants	Opco warrants	793	793
Opco unvested units	Opco unvested units	2,242	4,831
Opco common units	Opco common units	181,241	201,440
Total	Total	205,199	216,348

13. Capital Requirements

Bakkt Trust Company LLC is subject to certain regulatory capital requirements imposed by the New York State Department of Financial Services ("NYDFS"). NYDFS. These capital requirements require Bakkt Trust to maintain positive net worth at in cash the greater of \$15.0 million a defined positive net worth or the sum of the required percentage percentages established for transmitted assets and cold wallet and hot wallet custody assets. As of both December 31, 2022 and 2021, Bakkt Trust had determined that \$16.5 million, should be The amounts set aside to satisfy these requirements which is reflected as are included within "Restricted cash" in the consolidated balance sheets.

Bakkt Clearing, LLC ("Bakkt Clearing") was registered as a futures commission merchant ("FCM") with the Commodity Futures Trading Commission ("CFTC") and was a member of the National Futures Association ("NFA"). Bakkt Clearing was subject to CFTC Regulation 1.17, and the NFA capital requirements. Under these requirements, it was generally required to maintain "adjusted net capital" equivalent to the greater of \$1.0 million or the sum of 8 percent of customer and noncustomer risk maintenance margin requirements on all positions, as defined. On May 20, 2022, we withdrew Bakkt Clearing's registration in the CFTC and membership in the NFA, which was effective on June 20, 2022.

-136-

Accordingly, as of December 31, 2022, Bakkt Clearing no longer was required to maintain capital under the rules described above.

Bakkt Marketplace LLC is required to maintain tangible net worth of holds a minimum amount. This amount increased due to several states adopting the Model Money Transmission Modernization Act, which defined tangible net worth as the aggregate assets of a licensee excluding all intangible assets, less liabilities. In addition to the tangible net worth requirement, Bakkt Marketplace is also required to maintain tangible member's equity of a minimum amount, plus the amount of customer funds held in transit since it holds money transmitter licenses and has a virtual currency license (or "BitLicense") BitLicense from the NYDFS, which subjects it to NYDFS' oversight with respect to business activities conducted in New York State and with New York residents. residents, and **Tangible member's equity** is member's equity minus intangible assets, and is equivalent to tangible net worth. Bakkt Marketplace is also required to maintain positive net worth equal to its wind-down costs, or expected costs associated with the orderly wind-down of the business. As Bakkt Marketplace also has money transmitter licenses in a number of December 31, 2022 other states which require it to maintain a minimum tangible net worth. Several states have adopted the Model Money Transmission Modernization Act ("MMTMA"), which defined tangible net worth as the aggregate assets of a licensee excluding all intangible assets, less liabilities, and December 31, 2021, wind-costs amounted established a calculation for minimum tangible net worth as a percentage of total assets. For states that have not adopted the MMTMA, Bakkt Marketplace is required to \$7.1 million maintain tangible net worth of a minimum amount, plus the amount of customer funds held in transit.

Bakkt Crypto holds a BitLicense from NYDFS, which subjects it to NYDFS' oversight with respect to business activities conducted in New York State and \$5.5 million, respectively, with New York residents, and is required to maintain minimum positive net worth held as cash in excess of the sum of the required percentages established for transmitted assets, cold wallet and hot wallet custody assets, and predefined wind-down costs. Bakkt Crypto also has money transmitter licenses in a number of other states which require it to maintain a minimum tangible net worth. Several states have adopted the MMTMA, which defined tangible net worth as the aggregate assets of a licensee excluding all intangible assets, less liabilities, and established a calculation for minimum tangible net worth as a percentage of total assets. For states that have not adopted the MMTMA, Bakkt Crypto is required to maintain tangible net worth of a minimum amount, plus the amount of customer funds held in transit. In March 2024, the Company received approval from NYDFS to merge Bakkt Crypto and Bakkt Marketplace into one legal entity.

Bakkt Brokerage is registered as a broker-dealer with the Financial Industry Regulatory Authority and is required to maintain a minimum amount of net capital. Bakkt Brokerage's net capital requirement is not material.

As of December 31, 2022 December 31, 2023 and December 31, 2021 December 31, 2022, tangible net worth was the above mentioned subsidiaries were in compliance with their respective regulatory capital requirements. \$27.7 million and \$11.0 million, respectively, which was in excess of wind-down costs, tangible net worth, and tangible member's equity requirements.

The minimum capital requirements to which our subsidiaries are subject may restrict their ability to transfer cash. We may also be required to transfer cash to our subsidiaries for them to be able to such that they may continue to meet these minimum capital requirements.

-126-

14. Commitments and Contingencies

401(k) Plan

We sponsor a 401(k) defined contribution plan covering all eligible U.S. employees. Both Company and employee contributions to the 401(k) plan are discretionary. For the year years ended December 31, 2022, December 31, 2023 and the periods from October 15, 2021 through December 31, 2021 and January 1, 2021 through October 14, 2021 December 31, 2022, we recorded \$3.2 million, \$0.5 million \$2.9 million and \$1.6 million \$3.2 million, respectively, of expenses related to the 401(k) plan, which is included in "Compensation and benefits" in the consolidated statements of operations

Tax Receivable Agreement

The Company is party to a TRA with certain Opco Equity Holders. As of December 31, 2022 December 31, 2023, the Company has not recorded a liability under the TRA related to the income tax benefits originating from the exchanges of Opco common units as it is not probable that the Company will realize such tax benefits. The amounts payable under the TRA will vary depending upon a number of factors, including the amount, character, and timing of the taxable income of the Company in the future. Should the Company determine that the payment of the TRA liability becomes probable at a future date based on new information, any changes will be recorded on the Company's consolidated statement of operations and comprehensive loss at that time.

-137-

Litigation

As described above, in October 2021, we completed our the VIH Business Combination with VPC Impact Acquisition Holdings ("VIH"), VIH, pursuant to which VIH changed its name to Bakkt Holdings, Inc. and the current directors and officers of the Company replaced the directors and officers in place prior to the VIH Business Combination. On April 21, 2022, a putative class action was filed against Bakkt Holdings, Inc. and certain of its directors and officers prior to the VIH Business Combination in the U.S. District Court for the Eastern District of New York on behalf of certain purchasers of securities of VIH and/or purchasers of Bakkt Class A common stock issued in connection with the VIH Business Combination. On August 3, 2022, the Court appointed lead plaintiffs and lead counsel and on October 18, 2022, lead plaintiffs filed an amended complaint (the "Amended

Complaint"). The Amended Complaint alleged that VIH made false or misleading statements and omissions of material fact in the registration statement and prospectus/proxy statement filing in connection with the VIH Business Combination and in other SEC filings made by VIH, in violation of federal securities laws in connection with disclosures relating to certain of VIH's financial statements, accounting, and internal controls and that, as a result, VIH securities traded at artificially inflated prices. Plaintiffs sought certification of a class of purchasers of (1) VIH/Bakkt's publicly traded securities between March 31, 2021 and November 19, 2021, and/or (2) Bakkt's publicly traded securities pursuant and/or traceable to the registration statement. The Amended Complaint sought damages, as well as fees and costs. The Amended Complaint named as defendants only one current director, and no current officers, of Bakkt. On March 14, 2023, the parties reached a settlement in principle, and expect to complete principle. On April 12, 2023, the parties completed a stipulation of settlement resolving the litigation for \$3.0 million, subject to Court approval. On September 21, 2023, the Court granted the motion for preliminary approval. On February 27, 2024, the Court held a final approval hearing at which the Court sought certain limited additional information from Plaintiffs, which Plaintiffs provided on or before April 10, 2023 March 5, 2024. The Court has not yet issued a final approval order. We expect the settlement will be covered by our insurance less our contractual retention.

On June 23, 2023, an "opt-out" action related to the foregoing class action was filed against Bakkt Holdings, Inc. and the individuals named in the class action. In late February 2024, plaintiff provided notice that he intended to pursue his remedies as a class member, and therefore did not expect further to pursue this action. On March 1, 2024, the parties filed a joint stipulation of dismissal without a settlement or compromise between the parties, and on March 5, 2024 the Court issued an order dismissing the action.

On February 20, 2023, a derivative action related to the foregoing class action was filed against Bakkt Holdings, Inc. and all of its directors in the U.S. District Court for the Eastern District of New York. On June 13, 2023, the defendants filed with the Court a pre-motion letter setting forth the reasons for the dismissal of the action. On July 20, 2023, the parties filed with the Court a stipulation of a voluntary dismissal of the action without a settlement or compromise between them. On July 31, 2023, the Court issued an order to dismiss the action.

Prior to its acquisition by the Company, Bakkt Crypto received requests from the SEC for documents and information about certain aspects of its business, including the operation of its trading platform, processes for listing assets, the classification of certain listed assets, and relationships with customers and service providers, among other topics. The SEC has since made a number of follow-up requests for additional documents and information, and the Company has continued to respond to those requests on a timely basis. Based on the ongoing nature of this matter, the outcome remains uncertain and the Company cannot estimate the potential impact, if any, on its business or financial statements at this time.

On January 25, 2024, the Company's subsidiary, Aspire Loyalty Travel Solutions, LLC ("Aspire") received a letter from one of its vendors alleging breach of its agreement with that vendor relating to a migration of Aspire's systems to a different vendor. The alleged breach relates to a contractual provision requiring Aspire to originate at least a given percentage of its redemptions on the vendor's systems. We accrued \$0.7 million for this matter as of December 31, 2023.

Other legal and regulatory proceedings have arisen and may arise in the ordinary course of business. However, we do not believe that the resolution of these matters will have a material adverse effect on our financial position, results of operations or cash flows. However, future results could be materially and adversely affected by new developments relating to the legal proceedings and claims.

-138-

Commercial Purchasing Card Facility

We, through our loyalty business, had a purchasing card facility with a bank that we utilized for redemption purchases made from vendors suppliers as part of our loyalty redemption platform. Expenditures made using the purchasing card facility were payable monthly, were not subject to formula-based restrictions and did not bear interest if amounts

-127-

outstanding were paid when due and in full. Among other covenants, the purchasing card facility required us to maintain a month-end cash balance of \$40.0 million. In January 2021, the purchasing card facility was extended to April 15, 2022 in order to facilitate a long-term agreement on more favorable terms to us. Bakkt Holdings, Inc. served as the guarantor on behalf of our subsidiary under the commercial purchasing card facility. In April 2022, we further extended the maturity date of the purchasing card facility to August 12, 2022, to transition over to the purchasing card facility with Bank of America described below. The maturity date of the purchasing card facility was further extended as of August 12, 2022 to January 13, 2023. During September 2022, we paid off the majority of the remaining balance of the purchasing card facility. The purchasing card facility was closed during October 2022.

On April 7, 2022, we entered into a corporate card services agreement with Bank of America to provide a new purchasing card facility. Total borrowing capacity under the facility is \$35 million and there is no defined maturity date. Expenditures made using the purchasing card facility are payable monthly, are not subject to formula-based restrictions and do not bear interest if amounts outstanding are paid when due and in full. The purchasing card facility requires us to maintain a concentration account with the lender subject to a minimum liquidity maintenance requirement of \$7.0 million as collateral along with the accounts receivable of our subsidiary, within the loyalty business. Bakkt Holdings, Inc. serves as the guarantor on behalf of our subsidiary under the commercial purchasing card facility. We began using the purchasing card facility in August 2022.

In March of 2024, Bank of America required us to pledge as collateral the amounts which were previously required to be maintained in the concentration account.

Purchase Obligations

In December 2021, we entered into a four-year cloud computing arrangement which includes minimum contractual payments due to the third-party provider. In December 2023, we agreed to amend the contract and extend the payment period for an additional year. During the year ended December 31, 2023, we entered into a five-year strategic marketing agreement which required a committed spend. As of December 31, 2022, our outstanding purchase obligations consist of the following future minimum commitments (in thousands):

	Payments Due by Period					Total
	Less than 1 year	1-3 years	3-5 years	More than 5 years		
Purchase obligations	\$ 2,250	\$ 15,500	\$ —	\$ —	\$ —	17,750

	Payments Due by Period					Total
	Less than 1 year	1-3 years	3-5 years	More than 5 years		
Purchase obligations	\$ 6,800	\$ 14,100	\$ —	\$ —	\$ —	20,900

15. Income Taxes

As a result of the VIH Business Combination, the Company acquired a controlling interest in Opco, which is treated as a partnership for U.S. federal income tax purposes, and in most applicable state and local income tax jurisdictions. As a partnership, Opco is not itself subject to U.S. federal and certain state and local income taxes. Any taxable income or loss generated by Opco is passed through to and included in the taxable income or loss of its partners, including the Company following the VIH Business Combination, on a pro rata basis. The Company's U.S. federal and state income tax expense primarily relates to the Company's allocable share of any taxable income or loss of Opco following the VIH Business Combination. In addition, Opco's wholly owned corporate subsidiaries that are consolidated for U.S. GAAP purposes but separately taxed for federal, state, and foreign income tax purposes as corporations are generating federal, state, and foreign income tax expense.

-128--139-

The domestic and foreign components of income (loss) before income taxes for the following periods were as follows (in thousands):

Details of the income tax expense (benefit) are as follows (in thousands):

Successor		Predecessor
	October	January 1,
Year	15, 2021	2021
Ended	through	through
December	December	October 14,
31, 2022	31, 2021	2021

Year Ended December 31, 2023		Year Ended December 31, 2022
Current:	Current:	
Foreign		
Foreign	Foreign \$ 68 \$ 5 \$ (763)	
Federal	Federal — — 161	
State	State 184 18 —	
Total current income tax expense (benefit)	Total current income tax expense (benefit) 252 23 (602)	
Deferred:	Deferred:	
Foreign	Foreign — — —	
Foreign		
Federal	Federal (9,390) 10,004 —	
State	State (2,182) 1,724 —	
Total deferred income tax expense (benefit)	Total deferred income tax expense (benefit) (11,572) 11,728 —	
Total income tax expense (benefit)	Total income tax expense (benefit) \$ (11,320) \$ 11,751 \$ (602)	
Successor		Predecessor
October 15, 2021		January 1, 2021 through October 14, 2021
Year Ended December 31, 2022		Year Ended December 31, 2021
Year Ended December 31, 2023		Year Ended December 31, 2022
Tax provision at federal statutory rate	Tax provision at federal statutory rate \$(420,304) \$(32,146) \$ (29,363)	
Increase (decrease) in income tax resulting from:	Increase (decrease) in income tax resulting from:	
Tax on income not subject to entity level federal income tax	— — 29,859	
State income taxes, net of federal tax effect		

State income taxes, net of federal tax effect				
State income taxes, net of federal tax effect	State income taxes, net of federal tax effect	(34,316)	1,741	—
Noncontrolling interest	Noncontrolling interest	296,122	25,375	—
Fair value of warrant liability	Fair value of warrant liability	(3,494)	16,668	—
Changes in valuation allowance	Changes in valuation allowance	145,701	(50)	(301)
Stock compensation	Stock compensation	3,862	—	—
Subsidiary liquidation				
Other	Other	1,109	163	(797)
Provision for (benefit from) income taxes	Provision for (benefit from) income taxes	\$ (11,320)	\$ 11,751	\$ (602)
Effective tax rate	Effective tax rate	0.66 %	(7.68)%	0.43 % Effective tax rate (0.19)% 0.57 %

The effective tax rate differs from the federal statutory rate primarily due to the loss allocated to noncontrolling interest that is not taxed to the Company and changes to the Company's valuation allowance. The effective tax rate was

-129-

higher While Opco incurred a net loss before income taxes of \$225.4 million for the year ended December 31, 2022 compared December 31, 2023, only \$74.9 million was allocated to Bakkt Holdings, Inc. The remaining \$151.0 million is benefited for tax purposes by members outside of the period from October 15, 2021 through December 31, 2021 due reporting group. The tax expense of \$0.4 million relates to an increase in state and foreign tax expense since the Company's Company has recorded a full valuation allowance, allowance that offsets the tax benefit of its losses.

For the period from January 1, 2021 through October 14, 2021, Opco and its subsidiaries were classified as partnerships or other pass through entities for U.S. federal income tax purposes.

-140-

The following summarizes the significant components of our deferred tax assets and liabilities (in thousands):

Deferred tax assets:	Successor		December 31, 2023	December 31, 2022
	December 31, 2022	December 31, 2021		
	December 31, 2023			
Deferred tax assets:	Deferred tax assets:			
Investment in partnership				
Investment in partnership				
Investment in partnership	Investment in partnership	111,046	—	

Net operating loss carryforwards	Net operating loss carryforwards	14,656	5,011
Deferred and share-based compensation	Deferred and share-based compensation	2,965	252
Other	Other	52	51
Total deferred tax assets	Total deferred tax assets	<u>128,719</u>	<u>5,314</u>
Less: valuation allowance	Less: valuation allowance	(126,039)	(3,115)
Net deferred tax assets	Net deferred tax assets	<u>2,680</u>	<u>2,199</u>
Deferred tax liabilities:	Deferred tax liabilities:		
Investment in partnership		\$ —	\$ 11,507
Intercompany asset with Opcos			
Intercompany asset with Opcos			
Intercompany asset with Opcos	Intercompany asset with Opcos	2,680	2,285
Total deferred tax liabilities	Total deferred tax liabilities	<u>2,680</u>	<u>13,792</u>
Net deferred tax liabilities	Net deferred tax liabilities	<u>\$ —</u>	<u>\$ (11,593)</u>

Deferred income taxes reflect the net tax effects of temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the amounts used for income tax purposes.

Deferred tax assets are reduced by a valuation allowance if, based on the weight of available evidence, it is more likely than not that some portion or all of the deferred tax assets will not be realized. Our realizability of our deferred tax assets, in each jurisdiction, is dependent upon the generation of future taxable income sufficient to utilize the deferred tax assets on income tax returns, including the reversal of existing temporary differences, historical and projected operating results and tax planning strategies. We assessed that **certain substantially all** of our deferred tax assets were not more likely than not to be realized. **The As such, the Company had a valuation allowance of \$126.0 million \$139.3 million and \$3.1 million \$126.0 million as of December 31, 2022 December 31, 2023 and 2021, December 31, 2022, respectively. The increase in the valuation allowance during the year was primarily related to the impact generation of tax over book basis on the Company's investment in partnership related net operating losses that are not expected to the impairment of goodwill and created intangibles at Opcos, for which there was no corresponding step-up for tax purposes, be realized.**

As of December 31, 2022 December 31, 2023, the Company had gross federal net operating loss carryforwards ("NOLs") of \$90.0 million, all of which can be carried forward indefinitely. The Company also had state NOLs of \$79.9 million which will begin to expire in 2031. The Company had capital loss carryforwards of \$3.0 million which will expire in 2028. As of December 31, 2022, the Company had gross federal NOLs of \$51.8 million, of which \$0.4 million will begin to expire in 2037 and \$51.4 million can be carried forward indefinitely. The Company also had state NOLs of \$56.9 million which will begin to expire in 2037. As of December 31, 2021, the Company had gross NOLs of \$17.1 million, of which \$0.4 million will begin to expire in 2037 and \$16.7 million can be carried forward indefinitely. The Company also had state NOLs of \$21.4 million which will begin to expire in 2037.

The Company files income tax returns in the U.S., as well as various state and foreign jurisdictions. While the Company is not currently under examination in any of the applicable taxing jurisdictions, the Company is open to examination for federal, state, and foreign jurisdictions with varying statutes, ranging generally from three to five years.

Our non-U.S. subsidiaries are subject to Global Intangible Low-Taxed Income ("GILTI") provisions under the Tax Cuts and Jobs Act. The Company has elected to recognize the tax expense related to GILTI as a period cost in the period incurred.

-130-

The Organization for Economic Cooperation and Development ("OECD") has developed guidance known as the Global Anti-Base Erosion Pillar Two minimum tax rules, or Pillar Two, which generally provide for a minimum effective tax rate of 15% and are intended to apply to tax years beginning in 2024. The Company does not expect these rules to have a material impact on our income tax provision in 2024.

The effects of uncertain tax positions are recognized in the consolidated financial statements if these positions meet a "more-likely-than-not" threshold. For those uncertain tax positions that are recognized in the consolidated financial statements, liabilities are established to reflect the portion of those positions it cannot conclude "more-likely-than-not" to be realized upon ultimate settlement. The Company had no unrecognized tax benefits or related interest and penalties accrued as of both December 31, 2022 December 31, 2023 and 2021, December 31, 2022.

-141-

16. Fair Value Measurements

Financial assets and liabilities that are measured at fair value on a recurring basis are classified as Level 1, Level 2 and Level 3 as follows (in thousands):

		Successor			As of December 31, 2023			
		As of December 31, 2022			Total	Level 1	Level 2	Level 3
		Level			Total	Level 1	Level 2	As of December 31, 2023
		Total	Level 1	Level 2	3			
Assets:	Assets:							
U.S. Treasury debt securities								
U.S. Treasury debt securities								
U.S. Treasury debt securities	U.S. Treasury debt securities	\$141,062	\$141,062	\$ —	\$ —			
Safeguarding asset for crypto	Safeguarding asset for crypto	15,792	—	15,792	—			
Total assets	Total assets	\$156,854	\$141,062	\$15,792	\$ —			
Liabilities:	Liabilities:							
Liabilities:								
Safeguarding obligation for crypto								
Safeguarding obligation for crypto								
Safeguarding obligation for crypto	Safeguarding obligation for crypto	\$ 15,792	\$ —	\$15,792	\$ —			
Warrant liability— public warrants	Warrant liability— public warrants	785	785	—	—			
Total liabilities	Total liabilities	\$ 16,577	\$ 785	\$15,792	\$ —			
		Successor			As of December 31, 2022			
		As of December 31, 2021			As of December 31, 2022			
Assets:		Total	Total	Level 1	Level 2	Level 3		
U.S. Treasury debt securities								
U.S. Treasury debt securities								
U.S. Treasury debt securities								

Safeguarding asset for crypto				
Total assets				
	Level Level			
	Total Level 1 2 3			
Liabilities:	Liabilities:			
Liabilities:				
Safeguarding obligation for crypto				
Safeguarding obligation for crypto				
Safeguarding obligation for crypto				
Warrant liability—public warrants	\$17,424	\$17,424	\$ —	\$ —
Total liabilities	Total liabilities	\$17,424	\$17,424	\$ —

The carrying amounts of certain financial instruments, including cash and cash equivalents, accounts receivables, unbilled accounts receivables, due from related party, deposits with clearinghouse, due to related party, accounts payable and accrued liabilities, and operating lease obligations approximate their fair values due to their short-term nature. The balance of deposits with clearinghouse not invested in U.S. government securities are in the form of cash, and therefore approximate fair value.

Our investments in debt securities consist of U.S. Treasury debt securities held in the custody of a major financial institution. As of December 31, 2022 December 31, 2023, the Company's our investment in available-for-sale debt securities was determined to be a Level 1 investment based on quoted prices in active markets and was recorded in the consolidated balance sheets at fair value.

The fair value of the safeguarding obligation for crypto and the corresponding safeguarding asset for crypto was determined using Level 2 inputs which included using the value of the safeguarded asset determined as the mid-point of a bid-ask spread in the market we determined to be the principal market for the related crypto as of December 31, 2022 December 31, 2023.

The contingent consideration associated with the acquisition of Bakkt Crypto is valued using Level 3 inputs, which includes a Monte Carlo model. The inputs for the Monte Carlo model included forecasted financial performance of Bakkt Crypto and estimated earnings volatility. The contingent consideration liability is revalued each reporting period and any change in the liability is reflected in the Company's statements of operations in "Acquisition-related expenses". As of the acquisition date, the fair value of the contingent consideration was estimated to be \$2.9 million and used an estimated gross profit volatility of 66%. As of December 31, 2023, which we determined the value of the contingent consideration was a Level 2 input zero, based on our forward-looking projections and minimum profit requirements associated with the contingent consideration.

-142-

Our public warrant liability is valued based on quoted prices in active markets and is classified within Level 1.

Certain of our assets and liabilities are measured at fair value on a non-recurring basis. During the year ended December 31, 2022, we remeasured our goodwill and certain of our indefinite-lived intangible and long-lived assets at fair value using Level 3 inputs, as As described in Note 5. During 5 our owned crypto is continually evaluated for impairment using the period from October 15, 2021 through December 31, 2021,

-131-

lowest quoted price in the market we adjusted determine to be the principal market for the related crypto, which we determined was a software license asset and liability to Level 2 input. Other fair value when inputs associated with non-recurring impairment charges were recognized, which was on a non-recurring basis and based on Level 3 inputs. During analyses are discussed in the period from January 1, 2021 through October 14, 2021, we adjusted our customer consideration asset to fair value when impairment charges were recognized, which was on a non-recurring basis and based on Level 3 inputs.

The private placement warrant liability was measured at fair value on a recurring basis using significant unobservable inputs (Level 3) during the Successor period until it was fully exercised on November 17, 2021. A reconciliation notes of the warrant liability associated with private placement warrants from October 15, 2021 through December 31, 2021 is summarized below (in thousands):

	Successor
	December 31, 2021
Balance as of October 15, 2021	\$ 14,631
Loss from fair value of warrant liability	50,347
Exercise of warrants	(64,978)
Balance as of December 31, 2021	\$ —

related assets.

17. Leases

The Company leases real estate for office space under operating leases. On December 21, 2023, we signed an agreement to sublease a portion of our corporate headquarters office space in Alpharetta, Georgia. The sublease commenced in March 2024. On March 15, 2023, we signed an amendment to our Scottsdale, Arizona lease that extended the lease term. The amended lease has a term of 89 months and office equipment under finance leases, total fixed lease payments over the term of the amended lease are \$5.7 million. During the year ended December 31, 2022, we entered into a new real estate lease for office space in New York, New York, that commenced on January 31, 2022. The lease has a term of 94 months and the total fixed lease payments over the term of the lease are \$7.3 million. On April 25, 2022, we signed a lease agreement for call center office space in Alpharetta, Georgia. On May 12, 2022, we executed our option to lease additional space for the Alpharetta call center. The call center lease commenced on June 3, 2022. The lease has a term of 47 months and total fixed lease payments over the term of the lease are \$5.9 million. We consider a lease to have commenced on the date when we are granted access to the leased asset. Several of the Company's these leases include escalation clauses for adjusting rentals. As of December 31, 2023 and December 31, 2022, we did not have any active finance leases.

Our real estate leases have remaining lease terms as of December 31, 2022 December 31, 2023 ranging from 428 months to 117105 months, with one three of our leases containing an option to extend the term for a period of 5 years exercisable by us, which we were are not reasonably certain of exercising at commencement. None of our leases contain an option to terminate the lease without cause at the option of either party during the lease term. Certain of our equipment leases provide us with the option to purchase the asset at the fair market value.

Certain of our real estate leasing agreements include terms requiring us to reimburse the lessor for its share of real estate taxes, insurance, operating costs and utilities which we account for as variable lease costs when incurred since we have elected not to separate lease and non-lease components, and hence are not included in the measurement of lease liability. There are no restrictions or covenants imposed by any of the leases, and none of our leases contain material residual value guarantees.

The discount rates for all of our leases are based on our estimated incremental borrowing rate since the rates implicit in the leases were not determinable. Our incremental borrowing rate is based on management's estimate of the rate of interest we would have to pay to borrow on a fully collateralized basis over a similar term an amount equal to the lease payments in a similar economic environment.

We have elected the practical expedient under which lease components would not be separated from the non-lease components for all our classes of underlying assets. Accordingly, each lease component and the non-lease components

-132-

related to the lease component are accounted for as a single lease component. The components of total lease expense are as follows (in thousands):

	Successor	Predecessor
	October	January 1,
	Year 15, 2021	2021
	Ended through	through
	December December	October 14,
	31, 2022 31, 2021	2021
Finance lease cost		
Amortization of right-of-use assets	\$ —	\$ 108
Interest on lease liabilities	— 38	27

Year Ended December 31, 2023		Year Ended December 31, 2023		Year Ended December 31, 2022
Operating lease cost	Operating lease cost	3,780	370	856
Short-term lease cost	Short-term lease cost	13	33	202
Variable lease cost	Variable lease cost	15	10	56
Total lease cost	Total lease cost	\$ 3,808	\$ 451	\$ 1,249

-143-

The short-term lease cost disclosed in the Successor period table above reasonably reflects our ongoing short-term lease commitments.

	Successor		Predecessor	
	October 15, 2021		January 1, 2021	
	Year Ended December 31, 2022	through December 31, 2021	through October 14, 2021	Operating Finance Leases
	Operating Leases	Finance Leases	Operating Leases	Finance Leases
Cash paid for amounts included in the measurement of lease liabilities				
Cash flow from financing activities	\$ —	\$ —	\$ —	\$ 404
				\$ 97
Year Ended December 31, 2023		Year Ended December 31, 2023		Year Ended December 31, 2022
Cash paid for amounts included in the measurement of lease liabilities:				
Cash flow from operating activities ⁽¹⁾				
Cash flow from operating activities ⁽¹⁾				
Cash flow from operating activities ⁽¹⁾	\$ (3,068)	\$ —	\$ 106	\$ 38
				\$ 871
				\$ 27

Supplemental non-cash information on lease liabilities arising from obtaining right-of-use assets	Supplemental non-cash information on lease liabilities arising from obtaining right-of-use assets	
		\$ 11,006 \$ — \$ 10,347 \$ — \$ — \$ —

(1) Our real estate lease for office space in Alpharetta, Georgia required the landlord to reimburse certain expenditures incurred by us towards construction of improvements. The reimbursement was received during the year ended December 31, 2022 and exceeded the payments required to be made pursuant to the lease during the year.

The As of December 31, 2023, the weighted average remaining lease term for our operating leases was 84 months, and the weighted average discount rate for our operating leases was 5.3%. As of December 31, 2022, the weighted average remaining lease term for our operating leases was 94 months, and the weighted average discount rate for our operating leases was 5.0%. We did not have any active finance leases as of December 31, 2022. We were not party to any short-term leases during the periods presented.

-133-

The following table shows balance sheet information about our leases:

		Successor			
		Balance sheet classification	December 31, 2022	December 31, 2021	
Operating leases:					
Right-of-use assets	Right-of-use assets	Other assets, noncurrent	\$ 19,632	\$ 11,239	
Lease liabilities, current	Lease liabilities, current	Other current liabilities	\$ 3,014	\$ 615	
Lease liabilities, noncurrent	Lease liabilities, noncurrent	Other liabilities, noncurrent	\$ 23,402	\$ 10,647	
Finance leases:					
Right-of-use assets	Other assets, noncurrent	\$ —	\$ —		
Lease liabilities, current	Other current liabilities	\$ —	\$ —		
Lease liabilities, noncurrent	Other liabilities, noncurrent	\$ —	\$ —		

See Notes 5 and 6 for information on impairments recorded for certain right-of-use assets.

Future minimum lease payments under non-cancellable leases as of December 31, 2022 December 31, 2023 were as follows:

Operating Leases		
For the year ended December 31, 2023	For the year ended December 31, 2024	
		\$ 4,271
2024		
2024	2024	\$ 4,599
2025	2025	\$ 4,702
2026	2026	\$ 3,450

2027	2027	2,947
2028		
Thereafter	Thereafter	12,319
Total undiscounted lease payments	Total undiscounted lease payments	\$ 32,288
Less: imputed interest	Less: imputed interest	\$ (5,872)
Total lease liability	Total lease liability	\$ 26,416
Current	Current	\$ 3,014
Noncurrent	Noncurrent	\$ 23,402

18. Safeguarding Obligation For Crypto

We provide custody services for Bakkt Crypto's customers and for Bakkt Trust's standalone custody customers. Bakkt Trust also provides custody services for Bakkt Marketplace crypto customers as described in Note 1. We do not own crypto held in a custodial capacity on behalf of our customers. We maintain the internal recordkeeping of those assets and are obligated to safeguard the assets and protect them from loss or theft. We hold the controlling majority of cryptographic key information on behalf of our Bakkt Trust custodial customers. A significant portion of the crypto we hold in a custodial

-144-

capacity are custodied by institutional grade subcustodians. Subcustodians used by Bakkt Crypto hold our customer cryptographic key information and are not permitted to move assets without our specific authorization.

As of December 31, 2022 December 31, 2023, we ~~had~~ have a safeguarding obligation for crypto of \$15.8 million. \$701.6 million. The safeguarding liability, and corresponding safeguarding asset for crypto on the balance sheet, are measured at the fair value of the crypto held for our customers. We ~~were~~ are not aware of any actual or possible safeguarding loss events as of December 31, 2022 December 31, 2023. Therefore, the safeguarding obligation for crypto and the related safeguarding asset for crypto ~~were~~ are recorded at the same amount.

We are responsible for holding the following crypto on behalf of our customers as of December 31, 2023 and December 31, 2022 (in thousands):

	December 31, 2022
Bitcoin	\$ 15,717
Ether	75
Safeguarding obligations for crypto	<u>15,792</u>
Safeguarding asset for crypto	<u>15,792</u>
	December 31, 2023
Bitcoin	\$ 262,231
Ether	196,016
Shiba Inu	143,237
Dogecoin	78,524
Other	21,548
Safeguarding obligation for crypto	<u>701,556</u>
Safeguarding asset for crypto	<u>701,556</u>

-134-

19. Investments in Debt Securities

We have investments in certain debt securities, which we record at fair value and present as "Available-for-sale securities" in the consolidated balance sheets.

Unrealized gains and temporary losses, net of related taxes, are included in accumulated other comprehensive income (loss) ("AOCI"). Upon realization, those amounts are reclassified from AOCI to earnings. The amortization of premiums and discounts on the investments are included in our results of operations. Realized gains and losses are

calculated based on the specific identification method. We classify our investments as current or noncurrent based on the nature of the investments and their availability for use in current operations.

The cost basis and fair value of available-for-sale debt securities with unrealized gains and losses included in "Accumulated other comprehensive loss" in the consolidated balance sheets were as follows (in thousands):

(1) Indicates the length of time that individual securities have been in a continuous unrealized loss position.

The unrealized losses on our investments in government debt securities relate to changes in interest rates since the time of purchase. We do not intend to may sell certain investments depending on liquidity needs of the investments, and business; however, it is not likely that we will be required to sell the investments before recovery of their respective amortized cost basis. In addition, there were no credit losses on these investments as of December 31, 2022 December 31, 2023. In February 2024, we sold our available-for-sale securities based on liquidity needs of the business. Losses associated with the sales were immaterial.

The cost basis and fair value of available-for-sale debt securities at December 31, 2022 December 31, 2023, by contractual maturity, are shown below (in thousands). Expected maturities may differ from contractual maturities because borrowers may have the right to prepay and creditors may have the right to call obligations.

		December 31, 2022			
		Cost Basis	Fair Value		
		December 31, 2023		December 31, 2023	December 31, 2022
		Cost Basis	Cost Basis	Fair Value	Cost Basis
		Cost Basis	Cost Basis	Fair Value	Fair Value
Due in one year or less	Due in one year or less	141,003	141,062		

Due after one year	Due after one year	
through five years	through five years	—
Total	Total	
available- for-sale	available- for-sale	
securities	141,003	141,062

-135-

20. Subsequent Events

We have evaluated subsequent events and transactions and determined that no events or transactions met the definition of a subsequent event for purpose of recognition or disclosure in these financial statements, other than as described below and within this note. the notes to the financial statements.

On March 9, 2023 March 13, 2024, we were notified by NYSE Regulation Inc. (the "NYSE") that we are not in compliance with Section 802.01C of the NYSE Listed Company Manual (the "Listing Rule") because the average closing stock price of a share of our Class A common stock was less than \$1.00 per share over a consecutive 30 trading-day period. Pursuant to the Listing Rule, we have six months following the NYSE notification to regain compliance with the Listing Rule, during which time our Class A Common Stock will continue to be listed on the NYSE.

Under the NYSE's rules, if a Company determines it will cure its noncompliance with the Listing Rule by taking an action that will require stockholder approval, it must so inform the NYSE, and the noncompliance with the Listing Rule will be deemed cured if the price promptly exceeds \$1.00 per share and the price remains above that level for at least the following 30 trading days. We intend to consider all available alternatives to cure noncompliance with the Listing Rule, including but not limited to a reverse stock split, subject to stockholder approval.

On March 18, 2024, Gavin Michael resigned as President, Chief Executive Officer and as a director of the Company, announced a reduction in force that is expected as well as from all positions held with the Company's subsidiaries, effective March 25, 2024. In recognition of Mr. Michael's past service to result in the termination Company, the Company agreed to pay Mr. Michael aggregate severance benefits of approximately 16% \$1.3 million. The Company will also accelerate the vesting of the Company's non-call center, full-time workforce (49 employees). Substantially all of the employees impacted by outstanding but unvested service-based RSUs that have been issued to Mr. Michael through March 18, 2024 such that they are fully vested, and has certified the reduction in force were notified vesting of 614,920 performance-based RSUs based on the attainment of certain targets and goals. In addition, Mr.

-146-

Michael will retain 1,322,456 performance based RSUs issued to him on March 18, 2024, pending determination and certification of the reduction on March 9, 2023 targets necessary to obtain vesting, and will forfeited the Company in remaining 1,586,178 performance-based RSUs issued to him previously that were unvested.

Effective as of March 26, 2024, effective upon Mr. Michael's resignation, the first quarter Board of 2023. The Company estimates that it will incur expenses of approximately \$3.7 - \$4.1 million related Directors appointed Andrew Main to the reduction in force, substantially all position of President and Chief Executive Officer and entered into an employment agreement pursuant to which are related to employee severance and benefits costs Mr. Main will receive an annual base salary of \$500,000 and will be recognized eligible to receive an annual cash bonus under Company's annual cash incentive compensation plan with a target bonus amount of 100% of his base salary, in each case, subject to annual review and increase by the Board or the Compensation Committee. For 2024 only, Mr. Main shall receive 50% of the amount of the target cash bonus on October 1, 2024, with the remainder of the 2024 target cash bonus potentially being subject to determination by the Board or the Compensation Committee. In addition, at the time of his appointment, Mr. Main will be eligible to receive 12,195,121 service-based RSUs, 9,146,341 of which shall be in the first quarter form of 2023, time-based vesting RSUs and 3,048,780 of which shall be performance-based vesting RSUs.

-136- -147-

Item 9. Changes In And Disagreements With Accountants On Accounting And Financial Disclosure

None.

Item 9A. Controls And Procedures

Evaluation of Disclosure Controls and Procedures

As required by Rule 13a-15(b) under the Exchange Act, we have evaluated, under the supervision and with the participation of our management, including our principal executive officer and principal financial officer, the effectiveness of the design and operation of our disclosure controls and procedures (as defined in Rule 13a-15(e) and 15d-15(e) under the Exchange Act) as of the end of the fiscal year covered by this Annual Report on Form 10-K. Based on such evaluation, our principal executive officer and principal financial officer have concluded that as of such date, our disclosure controls and procedures were effective. Our disclosure controls and procedures are designed to provide reasonable assurance that the information required to be disclosed by us in reports that we file under the Exchange Act is accumulated and communicated to management, including our principal executive officer and principal financial officer, as appropriate, to allow timely decisions regarding required disclosure and is recorded, processed, summarized, and reported within the time periods specified in the rules and forms of the SEC.

Management's Report on Internal Control Over Financial Reporting

We are responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Rule 13a-15(f) and 15d-15(f) under the Exchange Act. We assessed the effectiveness of the Company's internal control over financial reporting as of **December 31, 2022** **December 31, 2023**. In making this assessment management used the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission in *Internal Control - Integrated Framework* (2013). Based on this assessment, we concluded that as of **December 31, 2022** **December 31, 2023**, the Company's internal control over financial reporting was effective.

This Annual Report on Form 10-K does not include an attestation report of our registered public accounting firm regarding internal controls over financial reporting because the Jumpstart our Business Startups Act of 2012 provides an exemption from such requirement to emerging growth companies.

Changes in Internal Control Over Financial Reporting

There Except as described below, **there** were no changes to our internal control over financial reporting (as defined in Rule 13a-15(f) and Rule 15d-15(f) under the Exchange Act) that occurred during the **quarter** year ended **December 31, 2022** **December 31, 2023** that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting. In April 2023, we acquired Apex Crypto and are in the process of integrating the acquired business into our overall internal control over financial reporting process. Such acquisition exceeded 50% significance under the significance tests set forth in Item 3-05 of Regulation S-X. As permitted under applicable regulations, we have excluded Apex Crypto from our assessment of internal control over financial reporting

Item 9B. Other Information

None.

Item 9C. Disclosure Regarding Foreign Jurisdictions That Prevent Inspections.

None.

-137- -148-

PART III

Item 10. Directors, Executive Officers And Corporate Governance

The information called for by this item will be set forth in our Proxy Statement and is incorporated herein by reference.

Our board of directors has adopted a code of conduct that applies to all of our employees, officers, and directors, including our Chief Executive Officer, Chief Financial Officer and other executive and senior financial officers. The full text of our code of conduct is posted on the investor relations page of our website, which is located at <https://investors.bakkt.com>. We intend to post any amendment to, or waiver from, a provision of our code of conduct on our website.

Item 11. Executive Compensation

The information called for by this item will be set forth in our Proxy Statement and is incorporated herein by reference.

Item 12. Security Ownership Of Certain Beneficial Owners And Management And Related Stockholder Matters

The information required by this item will be set forth in our Proxy Statement and is incorporated herein by reference.

Item 13. Certain Relationships And Related Transactions, And Director Independence

The information required by this item will be set forth in our Proxy Statement and is incorporated herein by reference.

Item 14. Principal Accountant Fees And Services

The information required by this item will be set forth in our Proxy Statement and is incorporated herein by reference.

-138- -149-

PART IV

Item 15. Exhibit And Financial Statement Schedules

(a) We have filed the following documents as part of this Annual Report on Form 10-K:

1. Financial Statements

See Index under Part II, Item 8 of this Annual Report on Form 10-K.

2. Financial Statement Schedules

Schedules not listed above have been omitted because they are not required, because they are not applicable, or because the required information is otherwise included.

3. Exhibits

The exhibits listed below are filed as part of this Annual Report on Form 10-K or are incorporated herein by reference, in each case as indicated below.

Exhibit Number	Description	Incorporated by Reference				Filed or Furnished Herewith
		Form	File No.	Exhibit	Filing Date	
2.1	Agreement and Plan of Merger, dated January 11, 2021, by and among the Company, Merger Sub, and the Company.	8-K	001-39544	2.1	January 11, 2021	
2.2	Amendment to Agreement and Plan of Merger, dated March 30, 2021 by and among the Company, Merger Sub, and the Company.	8-K	001-39544	2.1	March 31, 2021	
2.3	Amendment to Agreement and Plan of Merger, dated September 29, 2021 by and among the Company, Merger Sub, and the Company.	8-K	001-39544	2.1	September 30, 2021	
2.4	Membership Interest Purchase Agreement, dated as of November 2, 2022, by and among the Company, Bakkt Marketplace, Seller and Target.	8-K	001-39544	2.1	November 3, 2022	
3.1	Certificate of Incorporation of the Company, as currently in effect.	8-K	001-39544	3.1	October 21, 2021	
3.2	By-Laws of the Company, as currently in effect.	8-K	001-39544	3.2	October 21, 2021	
4.1	Specimen Class A Common Stock Certificate of the Company.	8-K	001-39544	4.1	October 21, 2021	
4.2	Specimen Warrant Certificate of the Company.	8-K	001-39544	4.2	October 21, 2021	
4.3	Warrant Agreement, dated September 22, 2020, by and between the Company and Continental Stock Transfer & Trust Company, as warrant agent.	8-K	001-39544	4.1	September 28, 2020	
4.4	First Amendment to Warrant Agreement, dated March 9, 2022, by and among Bakkt Holdings, Inc., American Stock Transfer & Trust Company, LLC and Continental Stock Transfer & Trust Company.	10-K	001-39544	4.4	March 31, 2022	
4.5	Third Amended and Restated Limited Liability Company Agreement, dated October 15, 2021, by and among Opco and the Opco Equity Holders.	8-K	001-39544	4.3	October 21, 2021	

Exhibit Number	Description	Incorporated by Reference				Filed or Furnished Herewith
		Form	File No.	Exhibit	Filing Date	
2.1	Agreement and Plan of Merger, dated January 11, 2021, by and among the Company, Merger Sub, and the Company.	8-K	001-39544	2.1	January 11, 2021	
2.2	Amendment to Agreement and Plan of Merger, dated March 30, 2021 by and among the Company, Merger Sub, and the Company.	8-K	001-39544	2.1	March 31, 2021	
2.3	Amendment to Agreement and Plan of Merger, dated September 29, 2021 by and among the Company, Merger Sub, and the Company.	8-K	001-39544	2.1	September 30, 2021	

2.4	Membership Interest Purchase Agreement, dated as of November 2, 2022, by and among the Company, Bakkt Marketplace, Seller and Target.	8-K	001-39544	2.1	November 3, 2022
2.5	Amendment No. 1 To Membership Interest Purchase Agreement, dated as of March 30, 2023, by and among the Company, Bakkt Marketplace, Apex Fintech Solutions Inc. and Apex Crypto, LLC.	8-K	001-39544	2.2	April 3, 2023
3.1	Certificate of Incorporation of the Company, as currently in effect.	8-K	001-39544	3.1	October 21, 2021
3.2	By-Laws of the Company, as currently in effect.	8-K	001-39544	3.2	October 21, 2021
4.1	Specimen Class A Common Stock Certificate of the Company.	8-K	001-39544	4.1	October 21, 2021
4.2	Specimen Warrant Certificate of the Company.	8-K	001-39544	4.2	October 21, 2021
4.3	Warrant Agreement, dated September 22, 2020, by and between the Company and Continental Stock Transfer & Trust Company, as warrant agent.	8-K	001-39544	4.1	September 28, 2020
4.4	First Amendment to Warrant Agreement, dated March 9, 2022, by and among Bakkt Holdings, Inc., American Stock Transfer & Trust Company, LLC and Continental Stock Transfer & Trust Company.	10-K	001-39544	4.4	March 31, 2022

-139- -150-

Exhibit Number	Description	Incorporated by Reference				Filed or Furnished Herewith
		Form	File No.	Exhibit	Filing Date	
4.6	Stockholders' Agreement, dated as of November 2, 2022, by and between the Company and Seller.	8-K	001-39544	4.1	November 3, 2022	
4.7	Description of Securities.	10-K	001-39544	4.6	March 31, 2022	
10.1	Letter Agreement, dated September 22, 2020 (the "Insider Letter"), by and among the Company, its executive officers, its directors and the Sponsor.	8-K	001-39544	10.1	September 28, 2020	
10.2	Amendment to Insider Letter, dated January 11, 2021, by and among the Company, its executive officers, its directors, the Sponsor and Opco.	8-K	001-39544	10.3	January 11, 2021	
10.3	Digital Currency Trading, Clearing, and Warehouse Services Agreement, dated August 29, 2019, by and among IFUS, ICUS and Bakkt Trust, including amendments thereto.	8-K	001-39544	10.10	October 21, 2021	
10.4	Cooperation Agreement, dated October 15, 2021, between the Company and ICE.	8-K	001-39544	10.6	October 21, 2021	
10.5	Registration Rights Agreement, dated October 15, 2021, by and among the Company, the Opco Equity Holders and the Sponsor.	8-K	001-39544	10.1	October 21, 2021	
10.6	Stockholders Agreement of the Company, dated October 15, 2021, by and among the Company, the Opco Equity Holders and the Sponsor.	8-K	001-39544	10.2	October 21, 2021	
10.7	Voting Agreement, dated October 15, 2021, by and between the Company and ICE.	8-K	001-39544	10.3	October 21, 2021	
10.8	Amended and Restated Exchange Agreement dated May 3, 2022 by and between Bakkt Holdings, Inc. and the other parties named therein.	8-K	001-39544	10.1	May 4, 2022	
10.9	Tax Receivable Agreement, dated October 15, 2021, by and among the Company and the other parties thereto.	8-K	001-39544	10.5	October 21, 2021	
10.10+	2021 Omnibus Incentive Plan.	8-K	001-39544	10.9	October 21, 2021	
10.11+	Form of Director Restricted Stock Unit Agreement under the Bakkt Holdings, Inc. 2021 Omnibus Incentive Plan.	10-K	001-39544	10.11	March 31, 2022	

10.12+	Form of Executive Officer Restricted Stock Unit Agreement under the Bakkt Holdings, Inc. 2021 Omnibus Incentive Plan.	10-K	001-39544	10.12	March 31, 2022
10.13+	Form of Performance Unit Agreement under the Bakkt Holdings, Inc. 2021 Omnibus Incentive Plan.	10-K	001-39544	10.13	March 31, 2022
10.14*	Form of Director and Executive Officer Indemnification Agreement.	8-K	001-39544	10.7	October 21, 2021
10.15+	Transition Services Agreement, dated as of November 10, 2021, by and between Opco and ICE.	8-K	001-39544	10.1	November 12, 2021
10.16+	Employment Agreement, dated January 9, 2021, by and among Gavin Michael, Opco, and the Company.	8-K	001-39544	10.12	October 21, 2021
10.17+	Employment Agreement, dated March 16, 2021, by and among Andrew LaBenné, Opco, and the Company.	8-K	001-39544	10.13	October 21, 2021

Exhibit Number	Description	Incorporated by Reference				Filed or Furnished Herewith
		Form	File No.	Exhibit	Filing Date	
4.5	Third Amended and Restated Limited Liability Company Agreement, dated October 15, 2021, by and among Opco and the Opco Equity Holders.	8-K	001-39544	4.3	October 21, 2021	
4.6	Stockholders' Agreement, dated as of November 2, 2022, by and between the Company and Seller.	8-K	001-39544	4.1	November 3, 2022	
4.7	Amendment Agreement by and between Bakkt Holdings, Inc., Apex Fintech Solutions Inc. and PEAK6 Investments LLC	10-Q	001-39544	4.2	August 10, 2023	
4.8	Description of Securities.	10-K	001-39544	4.6	March 31, 2022	
10.1	Letter Agreement, dated September 22, 2020 (the "Insider Letter"), by and among the Company, its executive officers, its directors and the Sponsor.	8-K	001-39544	10.1	September 28, 2020	
10.2	Amendment to Insider Letter, dated January 11, 2021, by and among the Company, its executive officers, its directors, the Sponsor and Opco.	8-K	001-39544	10.3	January 11, 2021	
10.3	Digital Currency Trading, Clearing, and Warehouse Services Agreement, dated August 29, 2019, by and among IFUS, ICUS and Bakkt Trust, including amendments thereto.	8-K	001-39544	10.10	October 21, 2021	
10.4	Cooperation Agreement, dated October 15, 2021, between the Company and ICE.	8-K	001-39544	10.6	October 21, 2021	
10.5	Registration Rights Agreement, dated October 15, 2021, by and among the Company, the Opco Equity Holders and the Sponsor.	8-K	001-39544	10.1	October 21, 2021	
10.6	Stockholders Agreement of the Company, dated October 15, 2021, by and among the Company, the Opco Equity Holders and the Sponsor.	8-K	001-39544	10.2	October 21, 2021	
10.7	Voting Agreement, dated October 15, 2021, by and between the Company and ICE.	8-K	001-39544	10.3	October 21, 2021	
10.8	Amended and Restated Exchange Agreement dated May 3, 2022 by and between Bakkt Holdings, Inc. and the other parties named therein.	8-K	001-39544	10.1	May 4, 2022	
10.9	Tax Receivable Agreement, dated October 15, 2021, by and among the Company and the other parties thereto.	8-K	001-39544	10.5	October 21, 2021	
10.10+	2021 Omnibus Incentive Plan.	8-K	001-39544	10.9	October 21, 2021	
10.11+	Amendment No 1 to Bakkt Holdings, Inc. 2021 Omnibus Incentive Plan					X
10.12+	Form of Director Restricted Stock Unit Agreement under the Bakkt Holdings, Inc. 2021 Omnibus Incentive Plan.	10-K	001-39544	10.11	March 31, 2022	
10.13+	Form of Executive Officer Restricted Stock Unit Agreement under the Bakkt Holdings, Inc. 2021 Omnibus Incentive Plan.	10-K	001-39544	10.12	March 31, 2022	
10.14+	Form of Performance Unit Agreement under the Bakkt Holdings, Inc. 2021 Omnibus Incentive Plan.	10-Q	001-39544	10.1	May 11, 2023	

Exhibit Number	Description	Incorporated by Reference				
		Form	File No.	Exhibit	Filing Date	Filed or Furnished Herewith
10.18+	Employment Agreement, dated August 10, 2021, by and among Marc D'Annunzio, Opco, and the Company.	10-K	001-39544	10.18	March 31, 2022	
10.19	Amendment No. 4 to Digital Currency Trading, Clearing, and Warehouse Services Agreement, dated as of July 21, 2022, by and among ICE Futures U.S., Inc., ICE Clear US, Inc. and Bakkt Trust Company LLC.	8-K	001-39544	10.1	July 25, 2022	
10.20	Form of Restricted Stock Unit Award Agreement	8-K	001-39544	10.1	September 12, 2022	
10.21	Form of Performance-Based Restricted Stock Unit Award Agreement	8-K	001-39544	10.2	September 12, 2022	
10.22	Bakkt Holdings, Inc. Outside Director Compensation Program	10-Q	001-39544	10.2	August 11, 2022	
10.23	Employment Agreement, dated October 12, 2022, by and between Karen Alexander and the Company.	8-K	001-39544	10.1	October 13, 2022	
21.1	List of subsidiaries of the registrant.					X
23.1	Consent of Ernst & Young LLP, independent registered public accounting firm of the Company.					X
24.1	Powers of Attorney (included on the signature page of this Annual Report on Form 10-K).					X
31.1	Certification of the Chief Executive Officer pursuant to Exchange Act Rule 13a-14 as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.					X
31.2	Certification of the Chief Financial Officer pursuant to Exchange Act Rule 13a-14 as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.					X
32.1†	Certification of the Chief Executive Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.					X
32.2†	Certification of the Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.					X
101.INS	XBRL Instance Document.					
101.SCH	XBRL Taxonomy Extension Schema Document.					
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document.					
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document.					
101.LAB	XBRL Taxonomy Extension Label Linkbase Document.					
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document.					
104	Cover Page Interactive Data File (formatted as inline XBRL and contained in Exhibit 101).					

Exhibit Number	Description	Incorporated by Reference				
		Form	File No.	Exhibit	Filing Date	Filed or Furnished Herewith
10.15*	Form of Director and Executive Officer Indemnification Agreement.	8-K	001-39544	10.7	October 21, 2021	

10.16+	Transition Services Agreement, dated as of November 10, 2021, by and between Opco and ICE.	8-K	001-39544	10.1	November 12, 2021
10.17+	Employment Agreement, dated January 9, 2021, by and among Gavin Michael, Opco, and the Company.	8-K	001-39544	10.12	October 21, 2021
10.18+	Release Agreement, dated March 18, 2024, by and between Bakkt Holdings, Inc. and Gavin Michael	8-K	001-39544	10.2*	March 19, 2024
10.19+	Employment Agreement, dated March 18, 2024, by and between Bakkt Holdings, Inc. and Andrew Main	8-K	001-39544	10.1	March 19, 2024
10.20+	Employment Agreement, dated August 10, 2021, by and among Marc D'Annunzio, Opco, and the Company.	10-K	001-39544	10.18	March 31, 2022
	Amendment No. 4 to Digital Currency Trading, Clearing, and Warehouse Services Agreement, dated as of July 21, 2022, by and among ICE Futures U.S., Inc., ICE Clear US, Inc. and Bakkt Trust Company LLC.	8-K	001-39544	10.1	July 25, 2022
10.22	Form of Restricted Stock Unit Award Agreement	8-K	001-39544	10.1	September 12, 2022
10.23	Form of Performance-Based Restricted Stock Unit Award Agreement	8-K	001-39544	10.2	September 12, 2022
10.24	Bakkt Holdings, Inc. Outside Director Compensation Program	10-Q	001-39544	10.2	August 11, 2022
10.25	Employment Agreement, dated October 12, 2022, by and between Karen Alexander and the Company	8-K	001-39544	10.1	October 13, 2022
10.26	Registration Rights Agreement, dated as of April 1, 2023, by and between Bakkt Holdings, Inc. and Apex Fintech Solutions Inc.	8-K	001-39544	4.1	April 3, 2023
21.1	List of subsidiaries of the registrant.				X
23.1	Consent of Ernst & Young LLP, independent registered public accounting firm of the Company.				X
24.1	Powers of Attorney (included on the signature page of this Annual Report on Form 10-K).				X
31.1	Certification of the Chief Executive Officer pursuant to Exchange Act Rule 13a-14 as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X
31.2	Certification of the Chief Financial Officer pursuant to Exchange Act Rule 13a-14 as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X
32.1†	Certification of the Chief Executive Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.				X
32.2†	Certification of the Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.				X

Incorporated by Reference						
Exhibit Number	Description	Form	File No.	Exhibit	Filing Date	Filed or Furnished Herewith
97	Clawback Policy					X
101.INS	XBRL Instance Document.					
101.SCH	XBRL Taxonomy Extension Schema Document.					
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document.					
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document.					
101.LAB	XBRL Taxonomy Extension Label Linkbase Document.					
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document.					
104	Cover Page Interactive Data File (formatted as inline XBRL and contained in Exhibit 101).					

* Schedules and exhibits to this agreement have been omitted pursuant to Item 601(b)(2) of Regulation S-K. A copy of any omitted schedule and/or exhibit will be furnished to the SEC upon request.

-141-

- + Indicates a management contract or compensatory plan or arrangement.
- † The certifications attached as Exhibit 32.1 and 32.2 that accompany this Annual Report on Form 10-K are furnished, not filed, with the Securities and Exchange Commission and are not to be incorporated by reference into any filing of the Registrant under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended, whether made before or after the date of this Annual Report on Form 10-K, irrespective of any general incorporation language contained in such filing.

Item 16. Form 10-K Summary

None.

-142-
-153-

SIGNATURES

Pursuant 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.

Date: March 24, 2023 25, 2024

BAKK HOLDINGS, INC.

By: /s/ Gavin Michael

Gavin Michael

Chief Executive Officer and President

(Principal Executive Officer)

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints [Gavin Michael](#), [Andrew Main](#), [Marc D'Annunzio](#) and [Karen Alexander](#), and each one of them, as their true and lawful attorneys-in-fact and agents, with full power of substitution and resubstitution, for them and in their name, place and stead, in any and all capacities, to sign any and all amendments to this Annual Report on Form 10-K, and to file the same, with all exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in connection therewith, as fully to all intents and purposes as they might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them, or their substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

-143-
-154-

Pursuant to the requirements of the Securities Act of 1934, this report has been signed by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

Signature	Title	Date
/s/ Gavin Michael Gavin Michael	Chief Executive Officer, President and Director (<i>Principal Executive Officer</i>)	3/24/2023 25/2024
/s/ Karen Alexander Karen Alexander	Chief Financial Officer (<i>Principal Financial Officer</i>)	3/24/2023 25/2024
/s/ Chip Goodroe Chip Goodroe	Chief Accounting Officer (<i>Principal Accounting Officer</i>)	3/24/2023 25/2024
/s/ David C. Clifton David C. Clifton	Director	3/24/2023 25/2024
/s/ Sean Collins Sean Collins	Director	3/24/2023 25/2024
/s/ Michelle J. Goldberg Michelle J. Goldberg	Director	3/24/2023 25/2024
/s/ Richard Lumb Richard Lumb	Director	3/24/2023 25/2024
/s/ Andrew A. Main Andrew A. Main	Director	3/24/2023 25/2024
/s/ Gordon Watson Gordon Watson	Director	3/24/2023 25/2024
/s/ De'Ana Dow De'Ana Dow	Director	3/24/2023 25/2024
/s/ Jill Simeone Jill Simeone	Director	3/24/2023 25/2024

-144- -155-

Exhibit 10.11

**AMENDMENT NO.1
TO
BAKKT HOLDINGS, INC.
2021 OMNIBUS INCENTIVE PLAN**

This Amendment No. 1 dated April 18, 2023 (this "Amendment") amends the 2021 Omnibus Incentive Plan of Bakkt Holdings, Inc. (the "Company", and such plan, the "Plan"). Except as otherwise explicitly set forth herein, all provisions of the Plan shall remain in full force and effect.

Capitalized terms used in the Amendment without definition shall have meanings set forth in the Plan.

WHEREAS, the Company desires to amend the Plan as hereinafter provided in order to increase the number of shares of Common Stock issuable under the Plan from 25,816,946 to 52,407,412; and

WHEREAS, the Board of Directors approved the substance of this Amendment as of April 18, 2023, and accordingly, the Company desires to amend the Plan as hereinafter provided.

NOW, THEREFORE, the Plan is hereby amended as follows:

1. Increase in Number of Shares Subject to the Plan. Section 1.3.1 of the Plan is amended to read in its entirety as follows:

Subject to the other provisions of this Section 1.3, the total number of Shares that may be granted under the Plan will be 52,407,412 (the "Share Limit"). Such Shares may, in the discretion of the Committee, be either authorized but unissued Shares or Shares previously issued and reacquired by the Company. In the case of a grant of a stock-settled stock appreciation right, the number of Shares available for grant under the Plan will be reduced by the full number of Shares granted under such stock appreciation right. Shares subject to awards that are assumed, converted or substituted under the Plan as a result of the Company's acquisition of another company (including by way of merger, combination or similar transaction) ("Acquisition Awards") will not count against the number of Shares that may be granted under the Plan or be subject to the minimum vesting provisions in Section 2.4. Available shares under a stockholder approved plan of an acquired company (as appropriately adjusted to reflect the transaction) may be used for Awards under the Plan (subject to New York Stock Exchange rules) and do not reduce the maximum number of shares available for grant under the Plan, subject to applicable stock exchange requirements. All Shares that can be delivered under the Plan (as adjusted pursuant to Section 1.3.3) may be delivered through Incentive Stock Options.

2. Effective Date. The increase in the number of shares of Common Stock issuable under the Plan pursuant to Section 1 of this Amendment shall be effective upon receipt of approval for such increase by the Company's stockholders, and shall be subject to and contingent upon receipt of such approval.

Exhibit 21.1

Subsidiaries of Bakkt Holdings, Inc.

Name of Subsidiary	Jurisdiction
Bakkt Opco Holdings, LLC	Delaware
Bakkt Trust Company LLC	New York
Bakkt Marketplace, LLC	Virginia
Bakkt, LLC	Delaware
Bakkt Trade, LLC	Virginia
Bakkt Clearing, LLC	Illinois
DACC Technologies, Inc.	Delaware
Digital Asset Custody Company, Inc.	Delaware
Bridge2Solutions, LLC	Delaware
B2S Direct, LLC	Florida
B2S Canada, LLC	Florida
Bridge2 Solutions Bakkt Crypto Australia Pty Ltd	Australia
Bridge2 Solutions Canada Ltd.	Canada
Aspire Loyalty Travel Solutions, LLC	Florida
B2S Resale, LLC	Delaware
Bumped Financial, Bakkt Brokerage, LLC	Delaware
Bakkt Crypto Solutions, LLC	Delaware

Consent of Independent Registered Public Accounting Firm

We consent to the incorporation by reference in the following Registration Statements:

- (1) Registration Statement (Form S-8 No. 333-261768) 333-275869 pertaining to the 2021 Omnibus Employee Incentive Plan of Bakkt Holdings, Inc. and in the
- (2) Registration Statement (Form S-8 No. 333-262037) 333-262037 pertaining to the Second Amended and Restated Bakkt Equity Incentive Plan of Bakkt Opco Holdings, LLC
- (3) Registration Statement (Form S-3 No. 333-271438), for the registration of the 46,402,403 shares of Class A common stock
- (4) Registration Statement (Form S-3 No. 333-271362), for the registration of 7,140,808 shares of Class A common stock
- (5) Registration Statement (Form S-3 No. 333-261034), for the registration of 180,511,924 shares of Class A common stock
- (6) Registration Statement (Form S-3 No. 333-271361), for the registration of Class A Common Stock, Preferred Stock, Debt Securities, Warrants and Units with an aggregate offering price not to exceed \$150,000,000;

of our report dated **March 24, 2023** March 25, 2024, with respect to the consolidated financial statements of Bakkt Holdings, Inc., included in this Annual Report (Form 10-K) of Bakkt Holdings, Inc. for the fiscal year ended **December 31, 2022** December 31, 2023.

/s/ Ernst & Young LLP

Atlanta, Georgia
March **24, 2023** 25, 2024

**CERTIFICATION PURSUANT TO
RULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934,
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Gavin Michael, certify that:

1. I have reviewed this Annual Report on Form 10-K of Bakkt Holdings, Inc.;
2. 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;
3. 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;
4. The registrant's other certifying officer 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:
 - (a) 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;
 - (b) 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;
 - (c) Evaluated the effectiveness of the registrant'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; and

(d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):

- 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 registrant's ability to record, process, summarize and report financial information; and
- Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: **March 24, 2023** **March 25, 2024**

By: _____ **/s/ Gavin Michael**
Gavin Michael
Chief Executive Officer
(Principal Executive Officer)

Exhibit 31.2

**CERTIFICATION PURSUANT TO
RULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934,
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Karen Alexander, certify that:

- I have reviewed this Annual Report on Form 10-K of Bakkt Holdings, Inc.;
- 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;
- 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;
- The registrant's other certifying officer 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:
 - 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;
 - 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;
 - Evaluated the effectiveness of the registrant'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; and
 - Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - 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 registrant's ability to record, process, summarize and report financial information; and
 - Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: **March 24, 2023** **March 25, 2024**

By: _____ **/s/ Karen Alexander**
Karen Alexander
Chief Financial Officer
(Principal Financial Officer)

Exhibit 32.1

**CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report of Bakkt Holdings, Inc. (the "Company") on Form 10-K for the fiscal year ended **December 31, 2022** **December 31, 2023** as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Gavin Michael, the Chief Executive Officer of the Company, hereby certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and result of operations of the Company.

Date: **March 24, 2023** **March 25, 2024**

By: _____ /s/ Gavin Michael
Gavin Michael
Chief Executive Officer
(Principal Executive Officer)

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Exhibit 32.2

**CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report of Bakkt Holdings, Inc. (the "Company") on Form 10-K for the fiscal year ended **December 31, 2022** **December 31, 2023** as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Karen Alexander, the Chief Financial Officer of the Company, hereby certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and result of operations of the Company.

Date: **March 24, 2023** **March 25, 2024**

By: _____ /s/ Karen Alexander
Karen Alexander
Chief Financial Officer
(Principal Financial Officer)

BAKK HOLDINGS, INC.

["the Company"]

CLAWBACK POLICY**1. Introduction**

The Board of Directors of the Company (the "Board") believes that it is in the best interests of the Company and its shareholders to create and maintain a culture that emphasizes integrity and accountability. The Board has therefore adopted this policy which provides for the recoupment of certain executive compensation in the event of an accounting restatement (the "Policy"). This Policy is designed to comply with Section 10D of the Securities Exchange Act of 1934 (the "Exchange Act") and the requirements of Section 303A.14 of the New York Stock Exchange ("NYSE") Listed Company Manual. Certain terms used in this Policy are defined in Section 15 below.

2. Administration

This Policy shall be administered by the Board or, if so designated by the Board, the compensation committee of the Board (the "Compensation Committee"), in which case references herein to the Board shall be deemed references to the Compensation Committee. Any determinations made by the Board shall be final and binding on all affected individuals, and need not be uniform with respect to each individual covered by this Policy. The Board may amend this Policy from time to time and may terminate the Policy at any time, in each case in its sole discretion.

3. Covered Executives

This Policy applies to the Company's current and former "executive officers" within the meaning of Rule 10D-1 of the Exchange Act, as determined by the Board ("Covered Executives").

4. Recoupment; Accounting Restatement

In the event the Company is required to prepare an Accounting Restatement (as defined below), the Board will reasonably promptly recover the amount of erroneously awarded Incentive Compensation. For purposes of this Policy, an Accounting Restatement is any accounting restatement due to the Company's material noncompliance with any financial reporting requirements under the securities laws, including any required accounting restatement to correct an error in previously issued financial statements that is material to the previously issued financial statements, or that would result in a material misstatement if the error were corrected in the current period or left uncorrected in the current period (each, an "Accounting Restatement").

5. Scope of Policy

A. Covered Persons and Recovery Period. This Policy applies to Incentive Compensation received by a person:

- after beginning service as a Covered Executive,
- who served as a Covered Executive at any time during the performance period for that Incentive Compensation,

- while the Company has a class of securities listed on a national securities exchange, and
- during the three completed fiscal years immediately preceding the date that the Company is required to prepare an Accounting Restatement (the "Recovery Period")

Notwithstanding this look-back requirement, the Company is only required to apply this Policy to Incentive Compensation received on or after December 1, 2023.

For purposes of this Policy, Incentive Compensation shall be deemed "received" in the Company's fiscal period during which the Financial Reporting Measure (as defined herein) specified in the Incentive- Compensation award is attained, even if the payment or grant of the Incentive

Compensation occurs after the end of that period.

B. Transition Period. In addition to the Recovery Period, this Policy applies to any transition period (that results from a change in the Company's fiscal year) within or immediately following the Recovery Period (a "Transition Period"), provided that a Transition Period between the last day of the Company's previous fiscal year end and the first day of the Company's new fiscal year that comprises a period of nine to 12 months will be deemed a completed fiscal year.

C. Determining Recovery Period. For purposes of determining the relevant Recovery Period, the date that the Company is required to prepare the Accounting Restatement is the earlier to occur of:

- the date the Board, a committee of the Board, or the officer or officers of the Company authorized to take such action if Board action is not required, concludes, or reasonably should have concluded, that the Company is required to prepare an Accounting Restatement, and
- the date a court, regulator, or other legally authorized body directs the Company to prepare an Accounting Restatement.

For clarity, the Company's obligation to recover erroneously awarded Incentive Compensation under this Policy is not dependent on if or when an Accounting Restatement is filed.

D. Method of Recovery. The Board will have the discretion in determining how to accomplish recovery of erroneously awarded Incentive Compensation under this Policy, recognizing that different means of recovery may be appropriate in different circumstances.

6. Excess Incentive Compensation: Amount Subject to Recovery

The amount to be recovered will be the excess of the Incentive Compensation paid to the Covered Executive over the Incentive Compensation that would have been paid to the Covered Executive had it been based on the restated results, computed without regard to any taxes paid, as determined by the Board in accordance with the listing standards of NYSE and the rules found in Rule 10D-1 under the Securities Exchange Act of 1934.

For Incentive Compensation based on stock price or total shareholder return ("TSR"), where the amount of erroneously awarded Incentive Compensation is not subject to mathematical recalculation directly from the information in an Accounting Restatement, the recoverable

amount shall be determined by the Board based on a reasonable estimate of the effect of the Accounting Restatement on the stock price or TSR upon which the Incentive Compensation was received. In such event, the Company shall maintain documentation of the determination of that reasonable estimate and provide such documentation to NYSE.

7. Exceptions to Recovery

The Board shall recover any excess Incentive Compensation in accordance with this Policy except to the extent that the conditions set out below are met and the Board has made a determination that recovery would be impracticable:

A. Direct Expense Exceeds Recoverable Amount: The direct expense paid to a third party to assist in enforcing this Policy would exceed the amount to be recovered; provided, however, that before concluding it would be impracticable to recover any amount of erroneously awarded Incentive Compensation based on expense of enforcement, the Company shall make a reasonable attempt to recover such erroneously awarded Incentive Compensation, document such reasonable attempt(s) to recover, and provide that documentation to NYSE.

B. Recovery from Certain Tax-Qualified Retirement Plans. Recovery would likely cause an otherwise tax-qualified retirement plan, under which benefits are broadly available to employees of the Company, to fail to meet the requirements of 26 U.S.C. 401(a)(13) or 26 U.S.C. 411(a) and regulations thereunder.

8. No Indemnification

Notwithstanding the terms of any indemnification arrangement or insurance policy with any individual covered by this Policy, the Company shall not indemnify any Covered Executives against the loss of any incorrectly awarded Incentive Compensation, including any payment or reimbursement for the cost of insurance obtained by any such covered individual to fund amounts recoverable under this Policy.

9. Interpretation

The Board is authorized to interpret and construe this Policy and to make all determinations necessary, appropriate, or advisable for the administration of this Policy. It is intended that this Policy be interpreted in a manner that is consistent with the requirements of Section 10D of the Exchange Act and any applicable rules or standards adopted by the Securities and Exchange Commission or any national securities exchange on which the Company's securities are listed.

10. Effective Date

This Policy shall be effective as of the date it is adopted by the Board (the "Effective Date").

11. Amendment; Termination

The Board may amend this Policy from time to time in its discretion and shall amend this Policy as it deems necessary to reflect final regulations adopted by the Securities and Exchange Commission under Section 10D of the Exchange Act and to comply with the NYSE Listed Company Manual. The Board may terminate this Policy at any time.

12. Other Recoupment Rights

The Board intends that this Policy will be applied to the fullest extent of the law. The Board may require that any employment agreement, equity award agreement, or similar agreement entered into on or after the Effective Date shall, as a condition to the grant of any benefit thereunder, require a Covered Executive to agree to abide by the terms of this Policy. Any right of recoupment under this Policy is in addition to, and not in lieu of, any other remedies or rights of recoupment that may be available to the Company pursuant to the terms of any similar policy in any employment agreement, equity award agreement, or similar agreement and any other legal remedies available to the Company.

13. Disclosure

The Company shall file all disclosures with respect to this Policy and recoveries under this Policy in accordance with the requirements of the U.S. Federal securities laws, including the disclosure required by the applicable Securities and Exchange Commission ("SEC") filings.

14. Successors

This Policy shall be binding and enforceable against all Covered Executives and their beneficiaries, heirs, executors, administrators or other legal representatives.

15. Definitions

"Financial Reporting Measures" means any of the following: (i) measures that are determined and presented in accordance with the accounting principles used in preparing the Company's financial statements, and any measures that are derived wholly or in part from such measures, (ii) stock price and (iii) TSR. A Financial Reporting Measure need not be presented within the Company's financial statements or included in a filing with the SEC.

"Incentive Compensation" means any compensation that is granted, earned, or vested based wholly or in part upon the attainment of a Financial Reporting Measure.

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