

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

AMENDMENT NO. 1
TO
FORM 20-F

(Mark One)

REGISTRATION STATEMENT PURSUANT TO SECTION 12(b) OR (g) OF THE SECURITIES EXCHANGE ACT OF 1934

OR

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

for the fiscal year ended December 31, 2021

OR

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

For the transition period from _____ to _____

OR

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

Date of event requiring this shell company report

Commission file number: 001-39337

EBANG INTERNATIONAL HOLDINGS INC.
(Exact name of Registrant as specified in its charter)

Cayman Islands
(Jurisdiction of incorporation or organization)

**Building 7, No. 5 Nangonghe Road, Linping Street
Yuhang District, Hangzhou, Zhejiang, 311100
People's Republic of China**
(Address of principal executive offices)

Mr. Dong Hu
Chief Executive Officer
**Building 7, No. 5, Nangonghe Road, Linping Street
Yuhang District, Hangzhou, Zhejiang, 311100
People's Republic of China**
Tel: +86 571-8817-6197
Email: ir@ebang.com

(Name, Telephone, E-mail and/or Facsimile number and Address of Company Contact Person)

Securities registered or to be 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 ordinary shares, par value HK\$0.001 per share	EBON	Nasdaq Global Select Market

Securities registered or to be registered pursuant to Section 12(g) of the Act:

None
(Title of Class)

Securities for which there is a reporting obligation pursuant to Section 15(d) of the Act:

None
(Title of Class)

Indicate the number of outstanding shares of each of the issuer's classes of capital stock or common stock as of the close of business covered by the annual report.

An aggregate of 187,376,337 ordinary shares, representing 140,750,554 Class A ordinary shares, par value HK\$0.001 per share, and 46,625,783 Class B ordinary Shares, par value HK\$0.001 per share, as of April 29, 2022.

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.

Yes No

If this report is an annual or transition report, indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934.

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 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, or an emerging growth company. See definition of "large accelerated filer", "accelerated filer", and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer Accelerated filer Non-accelerated filer Emerging growth company

If an emerging growth company that prepares its financial statements in accordance with U.S. GAAP, 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.

[†] The term "new or revised financial accounting standard" refers to any update issued by the Financial Accounting Standards Board to its Accounting Standards Codification after April 5, 2012.

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.

Indicate by check mark which basis of accounting the registrant has used to prepare the financial statements included in this filing:

US GAAP International Financial Reporting Standards as issued by the International Accounting Standards Board Other

If "Other" has been checked in response to the previous question indicate by check mark which financial statement item the registrant has elected to follow.

Item 17 Item 18

If this is an annual report, indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).

Yes No

(APPLICABLE ONLY TO ISSUERS INVOLVED IN BANKRUPTCY PROCEEDINGS DURING THE PAST FIVE YEARS)

Indicate by check mark whether the registrant has filed all documents and reports required to be filed by Sections 12, 13 or 15(d) of the Securities Exchange Act of 1934 subsequent to the distribution of securities under a plan confirmed by a court.

Yes No

EXPLANATORY NOTE

Ebang International Holdings Inc. (the “Company,” “we,” “us,” or “our”) is filing this Amendment No. 1 on Form 20-F (this “Amendment”) to our Annual Report on Form 20-F for the fiscal year ended December 31, 2021 (the “Form 20-F”), which was originally filed with the U.S. Securities and Exchange Commission (the “SEC”) on April 29, 2022, to add the sections titled “Introduction” and “Enforceability of Civil Liabilities,” and certain disclosure in “Item 3. Key Information”, Note 2 and Note 3 to Consolidated Financial Statements, in each case, to (i) provide additional disclosure regarding the Company’s unique risks with operations conducted by our subsidiaries based in China, and (ii) revise and clarify certain disclosure with respect to our short-term investments. In addition, this Amendment consists of a revised “Item 19. Exhibits” and reflects clerical changes in the references to certain defined terms.

This Amendment does not reflect subsequent events occurring after the original filing date of the Form 20-F or modify or update in any way the financial statements, consents or any other items disclosures made in the Form 20-F in any way other than as required to reflect the amendments discussed above. Accordingly, this Amendment should be read in conjunction with the Form 20-F and the Company’s other filings with the SEC subsequent to the filing of the Form 20-F.

Pursuant to Rule 12b-15 under the Securities Exchange Act of 1934, as amended, this Amendment also contains new certifications under the Sarbanes-Oxley Act of 2002, which are attached hereto.

EBANG INTERNATIONAL HOLDINGS INC.

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INTRODUCTION

In this annual report, otherwise indicated or unless the context otherwise requires,

- “ASICs” are to application-specific ICs, meaning ICs designed for a specific application;
- “China” and the “PRC” are to the People’s Republic of China, excluding, for the purposes of this annual report only, Taiwan, the Hong Kong Special Administrative Region and the Macao Special Administrative Region;
- “ICs” or “chips” are to integrated circuits;
- “PRC operating subsidiaries” are to, for the purpose of this annual report, primarily, Hangzhou Ebang Hongling Technology Co., Ltd. (“Ebang Hongling”), Wuhai Ebang Information Technology Co., Ltd. (“Wuhai Ebang”), Zhejiang Ebang Communication Technology Co., Ltd. (“Zhejiang Ebang”), Zhejiang Ebang Information Technology Co., Ltd. (“Ebang IT”), Hangzhou Dewang Information Technology Co., Ltd. (“Hangzhou Dewang”), Hangzhou Yibang Botong Technology Co., Ltd. (“Hangzhou Yibang Botong”), Hangzhou Ebang Jusheng Technology Co., Ltd. (“Ebang Jusheng”) and Shanghai Yijiaxin IC Design Co., Ltd. (“Shanghai Yijiaxin”);
- “PRC subsidiaries” are to, for the purpose of this annual report, primarily, PRC operating subsidiaries, Hangzhou Ebang Hongfa Technology Co., Ltd. (“Ebang Hongfa”), Yunnan Ebang Information Technology Co., Ltd. (“Yunnan Ebang”), Hangzhou Ebang Shuotai Technology Co., Ltd. (“Hangzhou Ebang Shuotai”) and Hangzhou Zhenghao Information Technology Co., Ltd.;
- “operating subsidiaries” are to, for the purpose of this annual report, primarily, PRC operating subsidiaries, Ebonex Australia Pty Ltd (“Ebonex Australia”), Ebon Management Australia Pty Limited, Compass Global Holdings Pty Ltd, Ebang Communications (HK) Technology Limited (“HK Ebang Communications”) and HongKong Ebang Digital Technology Limited (“HK Ebang Digital”);
- “shares” or “Class A ordinary shares” refer to our Class A ordinary shares, par value HK\$0.001 per share;
- “US\$,” “U.S. Dollars,” “\$” and “dollars” refer to the legal currency of the United States; and
- “we,” “us,” “our company,” the “Company,” “Ebang” and “our” refer to Ebang International Holdings Inc., our Cayman Islands holding company and from time to time, in the context of describing our business, our operations and consolidated financial information, Ebang International Holdings Inc. and its subsidiaries.

We are a Cayman Islands holding company and conduct all of our operations through our operating subsidiaries. Investors in our shares are not purchasing equity securities of our operating subsidiaries but instead are purchasing equity securities of a Cayman Islands holding company. Ebang does not conduct its business through the variable interest entity (“VIE”) structure. As most of our operations are conducted through our PRC operating subsidiaries, we face various legal and operational risks and uncertainties related to doing business in China. Since the PRC legal system continues to rapidly evolve, the interpretations of many laws, regulations and rules are not always uniform, and enforcement of these laws, regulations and rules involves uncertainties. The risks arising from the legal system in China include risks and uncertainties regarding the enforcement of laws and that rules and regulations in China can change quickly with little, if any, advance notice; there is a risk that the Chinese government may intervene or influence our operations at any time, or may exert more control over offerings conducted in Hong Kong and overseas, which could result in a material change in our operations and/or the value of our securities; we also face risks associated with regulatory approvals on offerings conducted overseas and foreign investment in China-based issuers, anti-monopoly regulatory actions, and oversight on cybersecurity and data privacy, which may negatively impact our ability to conduct certain businesses, access foreign investments, or list on a foreign stock exchange. In particular, it is now illegal to engage in digital asset transactions including Bitcoin mining operations in China, the ruling of which may adversely affect us.

Furthermore, as more stringent criteria have been imposed by the U.S. Securities and Exchange Commission (the “SEC”) and the Public Company Accounting Oversight Board (the “PCAOB”) recently, our securities may be prohibited from trading if our auditor cannot be fully inspected. On December 16, 2021, the PCAOB issued its determination that the PCAOB is unable to inspect or investigate completely PCAOB-registered public accounting firms headquartered in mainland China and in Hong Kong, because of positions taken by PRC authorities in those jurisdictions, and the PCAOB included in the report of its determination a list of the accounting firms that are headquartered in the PRC or Hong Kong. Our financial statements have been audited by MaloneBailey, LLP, an independent registered public accounting firm that is headquartered in the United States with offices in Beijing and Shenzhen, China. MaloneBailey, LLP has been inspected by the PCAOB on a regular basis and is not among the PCAOB-registered public accounting firms headquartered in China and Hong Kong that are subject to PCAOB’s determination issued on December 16, 2021 of having been unable to inspect or investigate completely. However, according to Article 177 of the PRC Securities Law (last amended in December 2019), no overseas securities regulator is allowed to directly conduct investigations or evidence collection activities in China. Accordingly, without the consent of the competent PRC securities regulators and relevant authorities, no organization or individual may provide the documents and materials relating to securities business activities to overseas parties. As a result, the audit working papers of our financial statements may not be inspected by the PCAOB without the approval of the PRC authorities, since the audit work was carried out by MaloneBailey, LLP with the collaboration of their China-based offices. The Holding Foreign Companies Accountable Act, or the HFCAA, was enacted on December 18, 2020. In accordance with the HFCAA, trading in our Class A ordinary shares on a national securities exchange or in the over the counter trading market in the United States may be prohibited if the PCAOB determines that it cannot inspect or fully investigate our auditors for three consecutive years beginning in 2021, and, as a result, an exchange may determine to delist our Class A ordinary shares. On June 22, 2021, the U.S. Senate passed the Accelerating Holding Foreign Companies Accountable Act, or the Accelerating HFCAA, which, if passed by the U.S. House of Representatives and signed into law, would reduce the number of consecutive non-inspection years required for triggering the prohibitions under the HFCAA from three years to two. The market prices of our Class A ordinary shares could be adversely affected, or our Class A ordinary shares may be delisted, as a result of possible negative impacts under the HFCAA, and/or the Accelerating HFCAA, if the PCAOB is unable to inspect auditors with a presence in China. See risks disclosed under “Item 3.D. Key Information—Risk Factors—Risks Relating to Conducting Business in China—The audit report included in this annual report is prepared by an auditor who might not be fully inspected by the Public Company Accounting Oversight Board, and, as such, you may be deprived of the benefits of such inspection.”

ENFORCEABILITY OF CIVIL LIABILITIES

We are incorporated under the laws of the Cayman Islands to take advantage of certain benefits associated with being a Cayman Islands exempted company:

- political and economic stability;
- an effective judicial system;
- a favorable tax system;
- the absence of exchange control or currency restrictions; and
- the availability of professional and support services.

However, certain disadvantages accompany incorporation in the Cayman Islands. These disadvantages include, but are not limited to, the following:

- the Cayman Islands has a less exhaustive body of securities laws than the United States and these securities laws provide significantly less protection to investors; and
- Cayman Islands companies may not have standing to sue before the federal courts of the United States.

Our constitutional documents do not contain provisions requiring that disputes, including those arising under the securities laws of the United States, between us, our officers, directors and shareholders, be arbitrated.

To date, we have conducted a majority of our operations outside the United States, and a majority of our assets are located outside the United States. Substantially all of our officers are nationals or residents of jurisdictions other than the United States and a substantial portion of their assets are located outside the United States. As a result, it may be difficult or impossible for a shareholder to effect service of process within the United States upon us or these persons, or to enforce against us or them judgments obtained in United States courts, including judgments predicated upon the civil liability provisions of the securities laws of the United States or any state in the United States.

We have appointed Cogency Global Inc., located at 122 East, 42nd Street, 18th Floor, New York, NY 10168, as our agent upon whom process may be served in any action brought against us under the securities laws of the United States.

Cayman Islands

There is uncertainty as to whether the courts in the Cayman Islands would (1) recognize or enforce judgments of United States courts obtained against us or our directors or officers to impose liabilities against us predicated upon the civil liability provisions of the securities laws of the United States or any state in the United States; or (2) entertain original actions brought in each respective jurisdiction against us or our directors or officers predicated upon the federal securities laws of the United States or the securities laws of any state in the United States.

Although there is no statutory enforcement in the Cayman Islands of judgments obtained in the federal or state courts of the United States (and the Cayman Islands are not a party to any treaties for the reciprocal enforcement or recognition of such judgments), the courts of the Cayman Islands would recognize as a valid judgment, a final and conclusive judgment *in personam* obtained in the federal or state courts in the United States under which a sum of money is payable (other than a sum of money payable in respect of multiple damages, taxes or other charges of a like nature or in respect of a fine or other penalty) or, in certain circumstances, an *in personam* judgment for non-monetary relief, and would give a judgment based thereon provided that (a) such courts had proper jurisdiction over the parties subject to such judgment, (b) such courts did not contravene the rules of natural justice of the Cayman Islands, (c) such judgment was not obtained by fraud, (d) the enforcement of the judgment would not be contrary to the public policy of the Cayman Islands, (e) no new admissible evidence relevant to the action is submitted prior to the rendering of the judgment by the courts of the Cayman Islands, and (f) there is due compliance with the correct procedures under the laws of the Cayman Islands. However, the Cayman Islands courts are unlikely to enforce a punitive judgment of a United States court predicated upon the civil liability provisions of the federal securities laws in the United States without retrial on the merits if such judgment is determined by the courts of the Cayman Islands to give rise to obligations to make payments that may be regarded as fines, penalties or punitive in nature.

The PRC

The PRC Civil Procedures Law governs the recognition and enforcement of foreign judgments. PRC courts may recognize and enforce foreign judgments in accordance with the PRC Civil Procedures Law based either on treaties between China and the country where the judgment is made or on principles of reciprocity between jurisdictions.

The PRC does not have any treaties or other agreements with the United States or the Cayman Islands that provide for the reciprocal recognition and enforcement of foreign judgments. In addition, according to the PRC Civil Procedures Law, courts in the PRC will not enforce a foreign judgment against us or our directors and officers if they determine that the judgment violates the basic principles of PRC law or national sovereignty, security or public interest. As a result, it is uncertain whether a PRC court would enforce a judgment rendered by a court in the United States or the Cayman Islands. Under the PRC Civil Procedures Law, foreign shareholders may originate actions based on PRC law against us in the PRC, if they can establish sufficient nexus to the PRC for a PRC court to have jurisdiction, and meet other procedural requirements, including, among others, the plaintiff must have a direct interest in the case, and there must be a concrete claim, a factual basis and a cause for the suit.

In addition, it will be difficult for U.S. shareholders to originate actions against us in China in accordance with PRC laws because we are incorporated under the laws of the Cayman Islands and it will be difficult for U.S. shareholders, by virtue only of holding our ordinary shares, to establish a connection to China for a PRC court to have jurisdiction as required under the PRC Civil Procedures Law.

For a detailed description of risks related to enforceability of civil liabilities, please refer to risks disclosed under “Item 3.D. Key Information—Risk Factors—Other Risks Relating to Our Business Operations—Certain judgments obtained against us by our shareholders may not be enforceable” and “—You may face difficulties in protecting your interests, and your ability to protect your rights through U.S. courts may be limited, because we are incorporated under Cayman Islands law and conduct our operations primarily in emerging markets.”

FORWARD-LOOKING STATEMENTS

This annual report on Form 20-F contains “forward-looking statements” within the meaning of Section 27A of the Securities Act of 1933, as amended (the “Securities Act”), and Section 21E of the Securities Exchange Act of 1934, as amended (the “Exchange Act”). Many of the forward-looking statements contained in this annual report can be identified by the use of forward-looking words such as “anticipate,” “believe,” “could,” “expect,” “should,” “plan,” “intend,” “will,” “estimate” and “potential,” among others.

Forward-looking statements appear in a number of places in this annual report and include, but are not limited to, statements regarding Ebang International Holdings Inc. and its subsidiaries’ intent, belief or current expectations. Forward-looking statements are based on our management’s beliefs and assumptions and on information currently available to our management. Such statements are subject to risks and uncertainties, and actual results may differ materially from those expressed or implied in the forward-looking statements due to various factors, including, but not limited to, those identified under the section “Item 3. Key Information—D. Risk factors” in this annual report. These risks and uncertainties include factors relating to:

- our goals and strategies;
- our business and operating strategies and plans for the development of existing and new businesses, ability to implement such strategies and plans and expected time;
- our future business development, financial condition and results of operations;
- expected changes in our revenues, costs or expenditures;
- our dividend policy;
- our expectations regarding demand for and market acceptance of our products and services;
- our expectations regarding our relationships with customers and business partners;
- the trends in, expected growth in and market size of the blockchain industry and the telecommunications industry in China and globally;
- our ability to maintain and enhance our market position;
- our ability to continue to develop new technologies and/or upgrade our existing technologies;
- developments in, or changes to, laws, regulations, governmental policies, incentives and taxation affecting our operations, in particular in the blockchain industry and the telecommunications industry;
- relevant governmental policies and regulations relating to our businesses and industry;
- competitive environment, competitive landscape and potential competitor behavior in our industry; overall industry outlook in our industry;
- our ability to attract, train and retain executives and other employees;
- the development of the global financial and capital markets;
- fluctuations in inflation, interest rates and exchange rates;
- general business, political, social and economic conditions in China and the overseas markets we have business;
- the length and severity of the recent COVID-19 outbreak and its impact on our business and industry;
- assumptions underlying or related to any of the foregoing; and
- other factors discussed under “Item 3. Key Information—D. Risk factors” in this annual report.

Forward-looking statements speak only as of the date they are made, and we do not undertake any obligation to update them in light of new information or future developments or to release publicly any revisions to these statements in order to reflect later events or circumstances or to reflect the occurrence of unanticipated events.

PART I

ITEM 1. IDENTITY OF DIRECTORS, SENIOR MANAGEMENT AND ADVISERS

A. Directors and senior management

Not applicable.

B. Advisers

Not applicable.

C. Auditors

Not applicable.

ITEM 2. OFFER STATISTICS AND EXPECTED TIMETABLE

A. Offer statistics

Not applicable.

B. Method and expected timetable

Not applicable.

ITEM 3. KEY INFORMATION

As a Cayman Islands holding company, Ebang relies on dividends and other distributions on equity paid by its operating subsidiaries for cash and financing requirements, including the funds necessary to pay dividends and other cash distributions to its shareholders or to service any expenses it may incur. Our subsidiaries', including PRC subsidiaries', ability to distribute dividends is based upon their distributable earnings. Current PRC regulations permit our PRC subsidiaries to pay dividends to their respective shareholders only out of their accumulated profits, if any, as determined in accordance with PRC accounting standards and regulations. In addition, under PRC law, our PRC subsidiaries are required to set aside at least 10% of its after-tax profits each year, if any, to fund certain statutory reserve funds until such reserve funds reach 50% of its registered capital. These reserves are not distributable as cash dividends. If each of our PRC subsidiaries incurs debt on its own behalf in the future, the instruments governing such debt may restrict its ability to pay dividends to Ebang. According to the relevant PRC regulations on Foreign Exchange Administration of the Overseas Direct Investment of Domestic Institutions, the operating subsidiaries of Ebang who remit dividends to Ebang shall, on the basis of the approval document issued by the competent administrative department of overseas direct investment (SAFE and its branch offices) and the foreign exchange registration certificate for overseas direct investment, handle the formalities for the outward remittance of funds for overseas direct investment at a designated foreign exchange bank. The designated foreign exchange bank shall handle the formalities for the domestic institution after an authenticity check.

To date, there have not been any such dividends or other distributions from our PRC subsidiaries to our subsidiaries located outside of China. In addition, as of the date of this annual report, PRC subsidiaries have never issued any dividends or distributions to Ebang or its shareholders outside of China. Furthermore, as of the date of this annual report, neither Ebang nor any of its subsidiaries have ever paid dividends or made distributions to U.S. investors. For risks relating to the fund flows of our operations in China, see "Item 3. Key Information—D. Risk Factors—Risks Relating to Our Business and Industry—Our corporate structure may restrict our ability to receive dividends from, and transfer funds to, our PRC operating subsidiaries, which could restrict our ability to act in response to changing market conditions in a timely manner."

Ebang is permitted under PRC laws and regulations as an offshore holding company to provide funding to its PRC subsidiaries in China through shareholder loans or capital contributions, subject to satisfaction of applicable government registration, approval and filing requirements. According to the relevant PRC regulations on foreign-invested enterprises in China, there are no quantity limits on Ebang's ability to make capital contributions to its PRC subsidiaries. However, our PRC subsidiaries may not procure loans which exceed one of the following criteria: (i) the difference between their respective registered capital and total investment amount as recorded in the Foreign Investment Comprehensive Management Information System; or (ii) the upper limit of risk-weighted outstanding cross-border financings, which equals to the capital or net assets multiplied by the cross-border financing leverage ratio multiplied by the macro-prudential adjustment parameter.

The following table presents the cash flows from Ebang to its subsidiaries for the periods indicated:

	Years Ended December 31,		
	2019	2020	2021
	US\$	US\$	US\$
	(in thousands)		
Transfers from Ebang to its subsidiaries	128	49,241	196,985

Cash flows are principally transferred between Ebang and its subsidiaries as operating cash support, of which neither entity demands repayment. To date, Ebang has not provided any loan to its subsidiaries.

Cash transfers between the subsidiaries are managed by our management, who decides how cash is allocated among subsidiaries based on the subsidiaries' business development and operational needs. To date, no transfer of assets other than cash has occurred between the Company and its subsidiaries. We do not anticipate that our subsidiaries will pay cash dividends in the foreseeable future.

As of date of this annual report, we have never faced difficulties or limitations on our ability to transfer cash to our subsidiaries, across borders and to U.S. investors. Currently, there are no restrictions on the ability of our subsidiaries to distribute earnings or pay dividends subject to there being sufficient distributable reserves and having relevant foreign exchange registration certificate obtained, as applicable. In the future, cash proceeds raised from overseas financing activities may continue to be transferred by Ebang to the subsidiaries via capital contribution or shareholder loans, as the case may be. We intend to retain most, if not all, of our available funds and any future earnings for the development and growth of our business overseas. We do not expect to pay dividends in the foreseeable future.

A. [Reserved]

B. Capitalization and indebtedness

Not applicable.

C. Reasons for the offer and use of proceeds

Not applicable.

D. Risk factors

Our business, financial condition and results of operations could be materially and adversely affected if any of the risks described below occur. As a result, the market price of our Class A ordinary shares, par value HK\$0.001 per share (the "Class A Ordinary Shares") could decline, and you could lose all or part of your investment. This annual report also contains forward-looking statements that involve risks and uncertainties. See "Forward-Looking Statements." The risks below are not the only ones facing the Company. Additional risks not currently known to us or that we currently deem immaterial may also adversely affect us. The following risk factors have been grouped as follows:

- a) Risks relating to conducting business in China;
- b) Risks relating to our cryptocurrency, blockchain and mining related businesses;
- c) Risks relating to our business operations;
- d) Risks relating to our securities; and
- e) General risks.

Summary of Key Risks

Our business is subject to numerous risks and uncertainties, discussed in more detail below. These risks include, among others, the following key risks:

- It is now illegal to engage in digital asset transactions including Bitcoin mining operations in China, the ruling of which may adversely affect us
- Changes in China's economic, political or social conditions or government policies could have a material adverse effect on our business, results of operations and financial condition
- Uncertainties in the interpretation and enforcement of PRC laws and regulations could limit the legal protections available to you and us
- Our corporate structure may restrict our ability to receive dividends from, and transfer funds to, our PRC operating subsidiaries, which could restrict our ability to act in response to changing market conditions in a timely manner
- We may be subject to the PRC Enterprise Income Tax Law and dividends payable to our foreign investors and gains on the sale of our Class A ordinary shares by our foreign investors may become subject to PRC tax
- We are subject to risks associated with legal, political or other conditions or developments regarding holding, using or mining of Bitcoins, which could negatively affect our business, results of operations and financial position
- The current regulatory environment in foreign markets, and any adverse changes in that environment, could have a material adverse impact on our blockchain products business and our cryptocurrency exchange and financial service platform businesses
- The future development and growth of cryptocurrency is subject to a variety of factors that are difficult to predict and evaluate. If cryptocurrency does not grow as we expect, our business, operating results, and financial condition could be adversely affected
- Our results of operations have been and are expected to continue to be significantly impacted by the fluctuation of cryptocurrency prices, especially the price of Bitcoin
- We have derived and may continue to derive a significant portion of our revenues from our Bitcoin mining machines business. If the market for Bitcoin mining machines ceases to exist or diminishes significantly, our business, results of operations and financial condition would be materially and adversely affected
- The industries in which we operate and which we intend to operate in the future are characterized by constant changes. If we fail to continuously innovate and to provide products that meet the expectations of our customers, we may be unable to attract new customers or retain existing customers, and hence our business and results of operations may be adversely affected
- We face risks associated with the expansion of our blockchain products business operations overseas and if we are unable to effectively manage such risks, our business growth and profitability may be negatively affected
- We may not successfully develop, market or launch any future cryptocurrency exchanges or online brokerages or continue operating our existing cryptocurrency exchanges

- Our intellectual property rights are valuable, and any inability to protect them could adversely impact our business, operating results, and financial condition
- We rely on a limited number of third parties to fabricate our ASIC chips, and IC packaging and testing services
- We have been involved, and may continue to be involved, in disputes, claims or proceedings arising from our operations or class actions from time to time, which could result in significant liabilities and reputational harm and could materially and adversely affect our business, financial condition and results of operations
- We have and may increasingly become a target for public scrutiny, including complaints to regulatory agencies, negative media coverage, and malicious allegations, all of which could severely damage our reputation and materially and adversely affect our business and prospects
- The audit report included in this annual report is prepared by auditor who might not be fully inspected by the Public Company Accounting Oversight Board, and, as such, you may be deprived of the benefits of such inspection
- Because we do not expect to pay dividends in the foreseeable future, you must rely on price appreciation of our Class A ordinary shares for return on your investment
- You may face difficulties in protecting your interests, and your ability to protect your rights through U.S. courts may be limited, because we are incorporated under Cayman Islands law and conduct our operations primarily in emerging markets
- Our dual-class voting structure will limit your ability to influence corporate matters and could discourage others from pursuing any change of control transactions that holders of our Class A ordinary shares may view as beneficial
- We are a “controlled company” within the meaning of the Nasdaq Rules, and, as a result, can rely on exemptions from certain corporate governance requirements that provide protection to shareholders of other companies
- We are an emerging growth company within the meaning of the Securities Act and may take advantage of certain reduced reporting requirements
- We are a foreign private issuer within the meaning of the rules under the Exchange Act, and as such we are exempt from certain provisions applicable to United States domestic public companies
- We have in the past incurred and continue to incur losses and negative cash flows from operating activities, and we may not achieve or sustain profitability

Risks Relating to Conducting Business in China

It is now illegal to engage in digital asset transactions including Bitcoin mining operations in China, the ruling of which may adversely affect us

China has now taken harsh regulatory action to ban cryptocurrency mining operations and to severely restrict the right to acquire, own, hold, sell or use these Bitcoin assets or to exchange them for fiat currency. Such restrictions may adversely affect us as the large-scale use of digital assets as a means of exchange is presently confined to certain regions globally. Ongoing and future regulatory actions may impact our ability to continue to operate, and such actions could affect our ability to continue as a going concern or to pursue our business strategy at all, which could have a material adverse effect on our business, prospects or operations.

On May 21, 2021, the Financial Stability and Development Committee of the State Council in China proposed to “crack down on Bitcoin mining and trading.” However, it was not until September 15, 2021, as described below, that all digital asset transactions were banned in China. In May 2021, local governments began to issue corresponding measures in succession to respond to the central government, including Xinjiang Changji Hui Autonomous Prefecture Development and Reform Commission issuing a notice on the immediate shutdown of enterprises engaged in cryptocurrency mining on June 9, 2021. On June 18, 2021, according to the public media report - Sichuan Provincial Development and Reform Commission and Sichuan Energy Bureau issued a notice on the shutdown of cryptocurrency mining projects with the deadline of June 25, 2021. On September 3, 2021, the newly issued Notification of Overhauling the Mining Activity of Cryptocurrency (or the Notification No. 1283) banned all new cryptocurrency operations in China and set forth penalties on a going forward basis for all of the PRC. On September 15, 2021, the People's Bank of China, the Office of the Central Cyberspace Affairs Commission, the Supreme People's Court, the Supreme People's Procuratorate, the Ministry of Industry and Information Technology, the Ministry of Public Security, the State Administration for Market Regulation, the China Banking and Insurance Regulatory Commission, the China Securities Regulatory Commission, and the State Administration of Foreign Exchange jointly issued the Circular on Further Preventing and Disposing of Risks in Virtual Currency Trading and Speculation (Yin Fa [2021] No.237), which clarified that virtual currency-related business activities in China and the provision of services by an overseas virtual currency exchange to a Chinese resident via the Internet will be considered as illegal financial activities.

In consideration of the PRC government's attitude and our intentional business plan, we will not conduct any cryptocurrency mining operations or cryptocurrency trading operations in mainland PRC. We do not have any mining operation in the PRC and have halted all mining machine custody business in China in April 2021. While we do not believe the PRC governmental authorities will seek to impose retroactive fines, penalties or sanctions, there can be no assurance they may not seek to do so. Any such regulations, if implemented, will cause us to incur additional compliance costs and have a material adverse effect on our future business operations.

There are risks to foreign investors in Chinese companies

The Chinese government implements the management systems of pre-establishment national treatment and negative list for foreign investment. Pre-establishment national treatment refers to the treatment given to foreign investors and their investments during the investment access stage, which is not lower than that given to their domestic counterparts; negative list for foreign investment refers to special administrative measures for the restricted or prohibited access of foreign investment in specific fields as stipulated by the Chinese government.

Pursuant to the Special Administrative Measures for Foreign Investment Access (2021 Edition), or the 2021 Edition Negative List, issued by The Ministry of Commerce of the PRC (the “MOFCOM”) and the National Development and Reform Commission (the “NDRC”) on December 27, 2021, which came into effect on January 1, 2022, our business does not fall into the Negative List. However, the 2021 Edition Negative List regulates that “Fields not mentioned in the Negative List for Foreign Investment Access shall be subject to administration under the principle of consistency for domestic and foreign investments. The relevant provisions of the Negative List for Market Access shall apply to domestic and foreign investors on a unified basis.”

In addition, based on the Negative List for Market Access (2022) which became effective on March 12, 2022, “the Catalogue for Guidance on Industrial Restructuring shall be included in the Negative List for Market Access”; plus, according to the Decision of the State Council on Promulgating and Implementing the “Temporary Provisions on Promoting Industrial Structure Adjustment,” valid from December 2, 2005, “In principle, the ‘Guidance Catalogue for the Industrial Structure Adjustment’ shall apply to various types of enterprises inside China.” “The industries of the eliminated category under the ‘Guidance Catalogue for the Industrial Structure Adjustment’ shall apply to the foreign investment enterprises.” and “Investments are prohibited from being contributed to projects under the eliminated category.” Furthermore, the NDRC released on December 30, 2021 its No. 49 Decree, announcing that the Decision of the National Development and Reform Commission on Amending the Guiding Catalog for Industrial Restructuring (2019 Version) (the “Amended Catalog”). The Amended Catalog added ‘virtual currency mining activities’ to the eliminated category of ‘1. outdated production processing and equipment’ under the original Catalog. Therefore, the foreign investment enterprises are prohibited from virtual currency activities and our mining machine custody business are banned in China as well.

Changes in China's economic, political or social conditions or government policies could have a material adverse effect on our business, results of operations and financial condition

Substantially all of our revenues were and, in a foreseeable future, are expected to be derived in China, and most of our operations, including all of our manufacturing, is conducted in China. Accordingly, our business, prospects, results of operations and financial condition may be influenced to a significant degree by political, economic and social conditions in China generally and by continued economic growth in China as a whole. The Chinese economy differs from the economies of most developed countries in many respects, including the degree of government involvement, level of development, growth rate, control of foreign exchange and allocation of resources. Although the PRC government has implemented measures emphasizing the utilization of market forces for economic reform, the reduction of state ownership of productive assets and the establishment of improved corporate governance in business enterprises, a substantial portion of productive assets in China is still owned by the government. In addition, the Chinese government continues to play a significant role in regulating industry development by imposing industrial policies. The Chinese government also exercises significant control over China's economic growth through strategically allocating resources, controlling the payment of foreign currency-denominated obligations, setting monetary policy and providing preferential treatment to particular industries or companies.

While the Chinese economy has experienced significant growth over the past decades, growth has been uneven, both geographically and among various sectors of the economy, and the rate of growth has been slowing since 2012. The Chinese government has implemented various measures to encourage economic growth and guide the allocation of resources. Some of these measures may benefit the overall Chinese economy but may have a negative effect on us. For example, our financial condition and results of operations may be adversely affected by government control over capital investments or changes in tax regulations. In addition, in the past the Chinese government has implemented certain measures, including interest rate increases, to control the pace of economic growth. These measures may cause decreased economic activity in China, and since 2012, and in particular in 2020 as a result of COVID-19, China's economic growth slowed down. Any prolonged slowdown in the Chinese economy may reduce the demand for our products and services and materially and adversely affect our business and results of operations.

Uncertainties in the interpretation and enforcement of PRC laws and regulations could limit the legal protections available to you and us

The PRC legal system is a civil law system based on written statutes. Unlike the common law system, prior court decisions may be cited for reference but have limited precedential value. The PRC legal system is evolving rapidly, but its current slate of laws may not be sufficient to cover all aspects of the economic activities in China, including such activities that relate to or have an impact on our business. Implementation and interpretations of laws, regulations and rules are not always undertaken in a uniform matter (some of which can change rapidly with little advance notice) and enforcement of these laws, regulations and rules involves uncertainties.

From time to time, we may have to resort to administrative and court proceedings to enforce our legal rights. However, since PRC administrative and court authorities have significant discretion in interpreting and implementing statutory and contractual terms, it may be more difficult to evaluate the outcome of administrative and court proceedings and the level of protection we enjoy than in more developed legal systems. Furthermore, the PRC legal system is based in part on government policies and internal rules (some of which are not published in a timely manner or at all) that may have a retroactive effect. As a result, we may not always be aware of any potential violation of these policies and rules until sometime after the violation. Such uncertainties, including unpredictability towards the scope and effect of our contractual, property (including intellectual property) and procedural rights, and any failure to respond to changes in the regulatory environment in China could materially and adversely affect our business and impede our ability to continue our operations.

In addition, the PRC governmental authorities may intervene or influence our operations at any time, or may exert more control over offerings conducted overseas and/or foreign investment in China-based issuers, which could significantly limit or completely hinder our ability to offer or continue to offer Class A ordinary shares to investors and cause the value of such shares to significant decline or be worthless.

We may be subject to recently announced Measures from the Cyberspace Administration of China concerning the collection of data and required to obtain clearance from the Cybersecurity Administration of China

The Cybersecurity Review Measures (2021) was officially released to the public on December 28, 2021, and became effective on February 15, 2022. According to the Cybersecurity Review Measures (2021) (the “Cybersecurity Measures”), to go public abroad, an online platform operator who possesses the personal information of more than 1 million users shall declare to the Office of Cybersecurity Review for cybersecurity review.

Currently, we have not been involved in any investigations on cybersecurity review initiated by the Cybersecurity Administration of China (the “CAC”) or related governmental regulatory authorities, and we have not received any inquiry, notice, warning, or sanction in such respect. As a result, we currently believe we would not be required to obtain clearance from the CAC regarding our listing in the United States under the Cybersecurity Measures because (i) we have not been involved in any investigations on cybersecurity review initiated by the CAC or related governmental regulatory authorities, and we have not received any inquiry, notice, warning, or sanction in such respect, as well as (ii) we have never set an online platform for any user in China and we have not been an online platform operator in China. However, if the CAC requires us to obtain clearance or permissions pursuant to the Cybersecurity Measures or other applicable laws and regulations promulgated by competent authorities in the future, we would file an application with CAC immediately and seek to obtain the clearance or permissions from the CAC as required since we are not willing to be subject to any inquiry, notice, warning, or sanction in such respect which might make a negative impact on our business operations or financial condition. Therefore, compliance with the Cybersecurity Measures, as well as additional laws, regulations and guidelines that the Chinese government promulgates in the future may entail significant expenses and could materially affect our business.

A severe or prolonged downturn in China’s economy and political tensions between the United States and China could materially and adversely affect our business, financial condition and results of operations

The global macroeconomic environment is facing challenges, including the continuing uncertainty regarding the duration and scope of the COVID-19 pandemic, global supply chain disruptions, the recent inflation in the United States and the foreign and domestic government sanctions imposed on Russia as a result of its recent invasion of Ukraine. The growth of China’s economy has slowed down since 2012 and the outbreak of coronavirus COVID-19 in China has resulted in a severe disruption of social and economic activities in China, which has resulted in a further significant slowdown of China’s economy in 2020 and may continue beyond. See “Item 3. Key Information—D. Risk Factors—Risks Relating to Our Business and Industry—The global coronavirus COVID-19 outbreak has caused significant disruptions in our business, which we expect may continue to materially and adversely affect our results of operations and financial condition.” In addition, there is considerable uncertainty over the long-term effects of the expansionary monetary and fiscal policies adopted by the central banks and financial authorities of some of the world’s leading economies, including the United States and China. There have been concerns over unrest and terrorist threats in the Middle East, Europe and Africa, which have resulted in market volatility.

There have been concerns on the relationship between China and other countries, including the surrounding Asian countries and the United States. In particular, there have been heightened tensions in international economic relations between the United States and China. The U.S. government has recently imposed, and has recently proposed to impose additional, new, or higher tariffs on certain products imported from China to penalize China for what the U.S. government characterizes as unfair trade practices. China has responded by imposing, and proposing to impose additional, new, or higher tariffs on certain products imported from the United States. Following mutual retaliatory actions for months, on January 15, 2020, the United States and China entered into the Economic and Trade Agreement Between the United States of America and the People’s Republic of China as a phase one trade deal, effective on February 14, 2020. It remains unclear what impact these tariff negotiations may have or what further actions the two countries may take. Moreover, political tensions between the United States and China have escalated as a result of the COVID-19 outbreak and the PRC National People’s Congress’ decision on Hong Kong national security legislation. Rising political tensions could reduce levels of trades, investments, technological exchanges and other economic activities between the two major economies, which would have a material adverse effect on global economic conditions and the stability of global financial markets. Any of the circumstances would have a material adverse effect on our business, prospects, financial condition and results of operations. See “Item 3. Key Information—D. Risk Factors—Risks Relating to Our Cryptocurrency, Blockchain and Mining Related Businesses—We plan to increase our export of mining machines to the United States and the European Union in the future, which may be subject to high tariff rates resulting from protectionism trade policies, and as a result, our future sales volumes, profitability and results of operations will be materially and adversely affected.”

Furthermore, as part of a continued regulatory focus in the United States on access to audit and other information currently protected by national law, in particular China's, on December 18, 2020, U.S. President Donald J. Trump signed the Holding Foreign Companies Accountable Act into law, which requires the SEC to propose rules within 90 days after its enactment to prohibit securities of any registrant from being listed on any of the U.S. securities exchanges or traded "over the counter" if the auditor of the registrant's financial statements is not subject to PCAOB inspection for three consecutive years after the law becomes effective. The Holding Foreign Companies Accountable Act and any proposed SEC rules may have a material and adverse impact on the stock performance of China-based companies listed in the United States. In addition, the recent market panics over the global outbreak of COVID-19 materially and negatively affected the global financial markets in March 2020, which may cause potential slowdown of the global economy. Economic conditions in China are sensitive to global economic conditions, as well as changes in domestic economic and political policies and the expected or perceived overall economic growth rate in China. Any severe or prolonged slowdown in the global or Chinese economy and the political tensions between the United States and China may materially and adversely affect our business, financial condition, results of operations and prospects.

Increases in labor costs and enforcement of stricter labor laws and regulations in the PRC and our PRC subsidiaries' additional payments of statutory employee benefits may adversely affect our business and profitability

The average wage in China has increased in recent years and is expected to continue to grow. The average wage level for our PRC subsidiaries' employees has also increased in recent years. We expect that our PRC subsidiaries' labor costs, including wages and employee benefits, will continue to increase. Unless we are able to pass on these increased labor costs to our customers, our profitability and results of operations may be materially and adversely affected.

In addition, our PRC subsidiaries have been subject to stricter regulatory requirements in terms of entering into labor contracts with our employees and paying various statutory employee benefits, including pensions, housing funds, medical insurance, work-related injury insurance, unemployment insurance and maternity insurance to designated government agencies for the benefit of our PRC subsidiaries' employees. Pursuant to the PRC Labor Contract Law and its implementation rules, employers are subject to stricter requirements in terms of signing labor contracts, minimum wages, paying remuneration, determining the term of employee's probation and unilaterally terminating labor contracts. In the event that our PRC subsidiaries decide to terminate some of our PRC subsidiaries' employees or otherwise change their employment or labor practices, the PRC Labor Contract Law and its implementation rules may limit their ability to effect those changes in a desirable or cost-effective manner, which could adversely affect our business and results of operations.

Pursuant to PRC laws and regulations, companies registered and operating in China are required to apply for social insurance registration and housing fund deposit registration within 30 days of their establishment and to pay for their employees different social insurance including pension insurance, medical insurance, work-related injury insurance, unemployment insurance and maternity insurance to the extent required by law. Our PRC subsidiaries have not fully paid social insurance and housing provident funds for all of their employees due to inconsistency in implementation or interpretation of the relevant PRC laws and regulations among government authorities in the PRC and, in some cases, voluntary decisions by the relevant employees. Recently, as the PRC government enhanced its enforcement measures relating to social insurance collection, our PRC subsidiaries may be required to make up the contributions for their employees, and may be further subjected to late fees payment and administrative fines, which may materially and adversely affect our financial condition and results of operations. As the interpretation and implementation of labor-related laws and regulations are still evolving, we cannot assure you that our PRC subsidiaries' current employment practices do not and will not violate labor-related laws and regulations in China, which may subject us to labor disputes or government investigations. In addition, we may incur additional expenses in order to comply with such laws and regulations, which may adversely affect our business and profitability.

We may be adversely affected by inflation or labor shortage in China

In recent years, the PRC economy has experienced periods of rapid expansion and highly fluctuating rates of inflation. According to the National Bureau of Statistics of China, the year-over-year percent changes in the consumer price index for December 2019, 2020 and 2021 were increases of 4.5%, 0.2% and 1.5%, respectively. Although we have not been materially affected by inflation in the past, we may be affected if PRC experiences higher rates of inflation in the future. It is uncertain when the general price level may increase or decrease sharply in the future. Moreover, the significant economic growth in China has resulted in a general increase in labor costs and shortage of low-cost labor. Inflation may cause our production cost to continue to increase. If we are unable to pass on the increase in production cost to our customers, we may suffer a decrease in profitability and a loss of customers and our results of operations could be materially and adversely affected.

Our corporate structure may restrict our ability to receive dividends from, and transfer funds to, our PRC operating subsidiaries, which could restrict our ability to act in response to changing market conditions in a timely manner

We are a Cayman Islands holding company and a certain portion of our operations are conducted through our operating subsidiaries. The ability of our operating subsidiaries to make dividend and other payments to us may be restricted by factors that include changes in applicable foreign exchange and other laws and regulations.

In particular, under the PRC law, each of our PRC operating subsidiaries may only pay dividends after 10% of its net profit has been set aside as reserve funds, unless such reserves have reached at least 50% of its registered capital. In addition, the profit available for distribution from our PRC operating subsidiaries is determined in accordance with generally accepted accounting principles in the PRC. This calculation may differ if it were performed in accordance with U.S. GAAP. As a result, we may not have sufficient distributions from our PRC operating subsidiaries to enable necessary profit distributions to our shareholders in the future, which would be based upon our financial statements prepared under U.S. GAAP.

Distributions by our PRC operating subsidiaries to us other than as dividends may be subject to governmental approval and taxation. Any transfer of funds from our company to our PRC operating subsidiaries, either as a shareholder loan or as an increase in registered capital, is subject to registration or approval of PRC governmental authorities, including the relevant administration of foreign exchange and/or the relevant examining and approval authority. These limitations on the free flow of funds between us and our PRC subsidiaries could restrict our ability to act in response to changing market conditions in a timely manner.

We may be subject to EIT on our worldwide income if our company or any of our subsidiaries were considered a PRC “resident enterprise” under the PRC Enterprise Income Tax Law, or the EIT Law

Under the EIT Law and its implementation rules, enterprises established outside of the PRC with “de facto management bodies” within the PRC are considered a “resident enterprise” and will be subject to EIT at a rate of 25% on their worldwide income. The implementation rules under EIT define the term “de facto management bodies” as “establishments that carry out substantial and overall management and control over the production, operation, personnel, accounting, properties, etc. of an enterprise.” The State Administration of Taxation of the PRC, or the SAT promulgated the Notice Regarding the Determination of Chinese-Controlled Offshore Incorporated Enterprises as PRC Tax Resident Enterprises on the Basis of De Facto Management Bodies, or Circular 82, on April 22, 2009, which provides certain specific criteria for determining whether the “de facto management body” of a Chinese-controlled offshore incorporated enterprise is located in the PRC. On July 27, 2011, the SAT issued the Measures for Administration of Income Tax of Chinese Controlled Resident Enterprises Incorporated Overseas (Trial), or Circular 45, to supplement Circular 82 and other tax laws and regulations. Circular 45 clarifies certain issues relating to resident status determination. Although Circular 82 and Circular 45 apply only to offshore enterprises controlled by PRC enterprises or PRC group companies and not those controlled by PRC individuals or foreigners, the determining criteria set forth in Circular 82 and Circular 45 may reflect the SAT’s general position on how the “de facto management body” test should be applied in determining the tax resident status of offshore enterprises, regardless of whether they are controlled by PRC enterprises or individuals or foreign enterprises. A substantial majority of our senior management team is located in China. If our company or any of our subsidiaries were considered to be a PRC “resident enterprise,” we would be subject to EIT at a rate of 25% on our worldwide income, which could materially reduce our net income.

Dividends payable to our foreign investors and gains on the sale of our Class A ordinary shares by our foreign investors may become subject to PRC tax

Under the EIT Law and its implementation regulations issued by the State Council, a 10% PRC withholding tax is applicable to dividends payable to investors that are non-resident enterprises, which do not have an establishment or place of business in the PRC or which have such establishment or place of business but the dividends are not effectively connected with such establishment or place of business, to the extent such dividends are derived from sources within the PRC. Similarly, any gain realized on the transfer of our Class A ordinary shares by such investors is also subject to PRC tax at a current rate of 10%, subject to any reduction or exemption set forth in applicable tax treaties or under applicable tax arrangements between jurisdictions, if such gain is regarded as income derived from sources within the PRC. If we are deemed a PRC resident enterprise, dividends paid on our Class A ordinary shares, and any gain realized from the transfer of our Class A ordinary shares, would be treated as income derived from sources within the PRC and would as a result be subject to PRC taxation. Furthermore, if we are deemed a PRC resident enterprise, dividends payable to individual investors who are non-PRC residents and any gain realized on the transfer of our Class A ordinary shares by such investors may be subject to PRC tax at a current rate of 20%, subject to any reduction or exemption set forth in applicable tax treaties or under applicable tax arrangements between jurisdictions. If we or any of our subsidiaries established outside China are considered a PRC resident enterprise, it is unclear whether holders of our Class A ordinary shares would be able to claim the benefit of income tax treaties or agreements entered into between China and other countries or areas. If dividends payable to our non-PRC investors, or gains from the transfer of our Class A ordinary shares by such investors, are deemed as income derived from sources within the PRC and thus are subject to PRC tax, the value of your investment in our Class A ordinary shares may decline significantly.

PRC regulations relating to investments in offshore companies by PRC residents may subject our PRC-resident beneficial owners or our PRC subsidiaries to liability or penalties, limit our ability to inject capital into our PRC subsidiaries or limit our PRC subsidiaries' ability to increase their registered capital or distribute profits

In July 2014, the State Administration of Foreign Exchange of the PRC, or SAFE, promulgated the Circular on Relevant Issues Concerning Foreign Exchange Control on Domestic Residents' Offshore Investment and Financing and Roundtrip Investment through Special Purpose Vehicles, or SAFE Circular 37, which replaces the previous SAFE Circular 75. SAFE Circular 37 requires PRC residents, including PRC individuals and PRC corporate entities, to register with SAFE or its local branches in connection with their direct or indirect offshore investment activities. SAFE Circular 37 is applicable to our shareholders who are PRC residents and may be applicable to any offshore acquisitions that we may make in the future.

Under SAFE Circular 37, PRC residents who make, or have prior to the implementation of SAFE Circular 37 made, direct or indirect investments in offshore special purpose vehicles, or SPVs, are required to register such investments with SAFE or its local branches. In addition, any PRC resident who is a direct or indirect shareholder of an SPV, is required to update its registration with the local branch of SAFE with respect to that SPV, to reflect any material change. Moreover, any subsidiary of such SPV in China is required to urge the PRC resident shareholders to update their registration with the local branch of SAFE to reflect any material change. If any PRC resident shareholder of such SPV fails to make the required registration or to update the registration, the subsidiary of such SPV in China may be prohibited from distributing its profits or the proceeds from any capital reduction, share transfer or liquidation to the SPV, and the SPV may also be prohibited from making additional capital contributions into its subsidiaries in China. In February 2015, SAFE promulgated a Notice on Further Simplifying and Improving Foreign Exchange Administration Policy on Direct Investment, or SAFE Notice 13. Under SAFE Notice 13, applications for foreign exchange registration of inbound foreign direct investments and outbound direct investments, including those required under SAFE Circular 37, must be filed with qualified banks instead of SAFE. Qualified banks should examine the applications and accept registrations under the supervision of SAFE. We have used commercially reasonable efforts to notify PRC residents or entities who directly or indirectly hold shares in our Cayman Islands holding company and who are known to us as being PRC residents to complete the foreign exchange registrations. However, we may not be informed of the identities of all the PRC residents or entities holding direct or indirect interest in our company, nor can we compel our beneficial owners to comply with SAFE registration requirements. We cannot assure you that all other shareholders or beneficial owners of ours who are PRC residents or entities have complied with, and will in the future make, obtain or update any applicable registrations or approvals required by, SAFE regulations. Failure by such shareholders or beneficial owners to comply with SAFE regulations, or failure by us to amend the foreign exchange registrations of our PRC subsidiaries, could subject us to fines or legal sanctions, restrict our overseas or cross-border investment activities, limit our PRC subsidiaries' ability to make distributions or pay dividends to us or affect our ownership structure, which could adversely affect our business and prospects.

Furthermore, as these foreign exchange and outbound investment related regulations are relatively new and their interpretation and implementation has been constantly evolving, it is unclear how these regulations, and any future regulation concerning offshore or cross-border investments and transactions, will be interpreted, amended and implemented by the relevant government authorities. For example, we may be subject to a more stringent review and approval process with respect to our foreign exchange activities, such as remittance of dividends and foreign-currency-denominated borrowings, which may adversely affect our financial condition and results of operations. We cannot assure you that we have complied or will be able to comply with all applicable foreign exchange and outbound investment related regulations. In addition, if we decide to acquire a PRC domestic company, we cannot assure you that we or the owners of such company, as the case may be, will be able to obtain the necessary approvals or complete the necessary filings and registrations required by the foreign exchange regulations. This may restrict our ability to implement our acquisition strategy and could adversely affect our business and prospects.

We and our shareholders face uncertainties with respect to indirect transfers of equity interests in PRC resident enterprises or other assets attributed to a Chinese establishment of a non-Chinese company, or immovable properties located in China owned by non-Chinese companies

In February 2015, SAT issued a Public Notice Regarding Certain Corporate Income Tax Matters on Indirect Transfer of Properties by Non-Tax Resident Enterprises, or SAT Public Notice 7. SAT Public Notice 7 extends its tax jurisdiction to transactions involving transfer of other taxable assets through offshore transfer of a foreign intermediate holding company. In addition, SAT Public Notice 7 provides clear criteria for assessment of reasonable commercial purposes and has introduced safe harbors for internal group restructurings and the purchase and sale of equity through a public securities market. SAT Public Notice 7 also brings challenges to both foreign transferor and transferee (or other person who is obligated to pay for the transfer) of taxable assets. In October 2017, SAT issued the Announcement of the State Administration of Taxation on Issues Concerning the Withholding of Non-resident Enterprise Income Tax at Source, or SAT Bulletin 37, which came into effect on December 1, 2017. The SAT Bulletin 37 further clarifies the practice and procedure of the withholding of non-resident EIT. Where a non-resident enterprise transfers taxable assets indirectly by disposing of the equity interests of an overseas holding company, which is an indirect transfer, the non-resident enterprise as either transferor or transferee, or the PRC entity that directly owns the taxable assets, may report such Indirect Transfer to the relevant tax authority. Using a “substance over form” principle, the PRC tax authority may disregard the existence of the overseas holding company if it lacks a reasonable commercial purpose and was established for the purpose of reducing, avoiding or deferring PRC tax. As a result, gains derived from such indirect transfer other than transfer of shares acquired and sold on public markets may be subject to EIT, and the transferee or other person who is obligated to pay for the transfer is obligated to withhold the applicable taxes, currently at a rate of 10%. Both the transferor and the transferee may be subject to penalties under PRC tax laws if the transferee fails to withhold the taxes and the transferor fails to pay the taxes.

We face uncertainties as to the reporting and other implications of certain past and future transactions that involve PRC taxable assets, such as offshore restructuring, sale of the shares in our offshore subsidiaries and investments. Our company may be subject to filing obligations or taxed if our company is transferor in such transactions and may be subject to withholding obligations if our company is transferee in such transactions, under SAT Public Notice 7 or SAT Bulletin 37, or both.

We are subject to PRC restrictions on currency exchange

Some of our revenues and expenses are denominated in Renminbi. The Renminbi is currently convertible under the “current account,” which includes dividends, trade and service-related foreign exchange transactions, but not under the “capital account,” which includes foreign direct investment and loans, including loans we may secure from our onshore subsidiaries. Currently, certain of our PRC subsidiaries may purchase foreign currency for settlement of “current account transactions,” including payment of dividends to us, without the approval of the SAFE by complying with certain procedural requirements. However, the relevant PRC governmental authorities may limit or eliminate our ability to purchase foreign currencies in the future for current account transactions. Foreign exchange transactions under the capital account remain subject to limitations and require approvals from, or registration with, the SAFE and other relevant PRC governmental authorities. Since a part of our future net income and cash flow will be denominated in Renminbi, any existing and future restrictions on currency exchange may limit our ability to utilize cash generated in Renminbi to fund our business activities outside of the PRC or pay dividends in foreign currencies to our shareholders, including holders of our Class A ordinary shares, and may limit our ability to obtain foreign currency through debt or equity financing for our subsidiaries.

If the custodians or authorized users of our controlling non-tangible assets, including chops and seals, fail to fulfill their responsibilities, or misappropriate or misuse these assets, our business and operations may be materially and adversely affected

Under PRC law, legal documents for corporate transactions, including agreements and contracts such as the leases and sales contracts that our business relies on, are executed using the chop or seal of the signing entity or with the signature of a legal representative whose designation is registered and filed with the relevant local branch of the market supervision administration.

In order to maintain the physical security of our chops and the chops of our PRC subsidiaries, we generally store these items in secured locations accessible only by the authorized personnel of each of our PRC subsidiaries and consolidated entities. Although we monitor such authorized personnel, there is no assurance such procedures will prevent all instances of abuse or negligence. Accordingly, if any of our authorized personnel misuse or misappropriate our corporate chops or seals, we could encounter difficulties in maintaining control over the relevant entities and experience significant disruption to our operations. If a designated legal representative obtains control of the chops in an effort to obtain control over any of our PRC subsidiaries or consolidated entities, we, our PRC subsidiaries or consolidated entities would need to pass a new shareholder or board resolution to designate a new legal representative and we would need to take legal action to seek the return of the chops, apply for new chops with the relevant authorities, or otherwise seek legal redress for the violation of the representative's fiduciary duties to us, which could involve significant time and resources and divert management attention away from our regular business. In addition, the affected entity may not be able to recover corporate assets that are sold or transferred out of our control in the event of such a misappropriation if a transferee relies on the apparent authority of the representative and acts in good faith.

The M&A Rules and certain other PRC regulations establish complex procedures for some acquisitions of Chinese companies by foreign investors, which could make it more difficult for us to pursue growth through acquisitions in China

The Regulations on Mergers and Acquisitions of Domestic Companies by Foreign Investors, or the M&A Rules, adopted by six PRC regulatory agencies in August 2006 and amended in June 2009, and some other regulations and rules concerning mergers and acquisitions established additional procedures and requirements that could make merger and acquisition activities by foreign investors more time consuming and complex, including requirements in some instances that shall obtained an approval from the Ministry of Commerce, or the MOFCOM, in advance of any change-of-control transaction in which a foreign investor takes control of a PRC domestic enterprise. Moreover, the Anti-Monopoly Law requires that the MOFCOM shall be notified in advance of any concentration of undertaking if certain thresholds are triggered. In addition, the Safety Review System for Merger and Acquisition of Domestic Companies by Foreign Investors issued by the MOFCOM that became effective in September 2011 specify that mergers and acquisitions by foreign investors that raise "national defense and security" concerns and mergers and acquisitions through which foreign investors may acquire de facto control over domestic enterprises that raise "national security" concerns are subject to strict review by the MOFCOM, and the rules prohibit any activities attempting to bypass a security review, including by structuring the transaction through a proxy or contractual control arrangement. In the future, we may grow our business by acquiring complementary businesses. Complying with the requirements of the above-mentioned regulations and other relevant rules to complete such transactions could be time consuming, and any required approval processes, including obtaining approval from the MOFCOM or its local counterparts may delay or inhibit our ability to complete such transactions, which could affect our ability to expand our business or maintain our market share.

We face regulatory uncertainties in China that could restrict our ability to grant share incentive awards to our employees or consultants who are PRC citizens

Pursuant to the Notices on Issues concerning the Foreign Exchange Administration for Domestic Individuals Participating in a Stock Incentive Plan of an Overseas Publicly-Listed Company issued by SAFE on February 15, 2012, or Circular 7, a qualified PRC agent (which could be the PRC subsidiary of the overseas-listed company) is required to file, on behalf of “domestic individuals” (both PRC residents and non-PRC residents who reside in China for a continuous period of not less than one year, excluding the foreign diplomatic personnel and representatives of international organizations) who are granted shares or share options by the overseas-listed company according to its share incentive plan, an application with SAFE to conduct SAFE registration with respect to such share incentive plan, and obtain approval for an annual allowance with respect to the purchase of foreign exchange in connection with the share purchase or share option exercise. Such PRC individuals’ foreign exchange income received from the sale of shares and dividends distributed by the overseas listed company and any other income shall be fully remitted into a collective foreign currency account in China, which is opened and managed by the PRC domestic agent before distribution to such individuals. In addition, such domestic individuals must also retain an overseas entrusted institution to handle matters in connection with their exercise of share options and their purchase and sale of shares. The PRC domestic agent also needs to update registration with SAFE within three months after the overseas-listed company materially changes its share incentive plan or make any new share incentive plans.

We have adopted our Amended and Restated 2020 Share Incentive Plan (the “2020 Plan”), effective upon the completion of our initial public offering, and our 2021 Share Incentive Plan (the “2021 Plan”), effective upon shareholder approval at the 2021 annual general meeting of shareholders held on December 15, 2021. As of the date of this annual report, we have granted 6,550,000 restricted share awards under the 2020 Plan and we did not grant any awards under the 2021 Plan. We may grant share incentive awards under both or either plan in the future. When we do, from time to time, we need to apply for or update our registration with SAFE or its local branches on behalf of our employees or consultants who receive options or other equity-based incentive grants under the 2020 Plan, 2021 Plan or future share incentive plans we may adopt or material changes in such plan(s). However, we may not always be able to make applications or update our registration on behalf of our employees or consultants who hold any type of share incentive awards in compliance with Circular 7, nor can we ensure you that such applications or update of registration will be successful. If we or the participants of our share incentive plan(s) who are PRC citizens fail to comply with Circular 7, we and/or such participants of our share incentive plan(s) may be subject to fines and legal sanctions, there may be additional restrictions on the ability of such participants to exercise their share options or remit proceeds gained from sale of their shares into China, and we may be prevented from further granting share incentive awards under our share incentive plan(s) to our employees or consultants who are PRC citizens.

Our Hong Kong subsidiaries could become subject to the direct oversight of the PRC government at any time if the National laws of mainland China are applied to Hong Kong

The national laws of the PRC (the “National Laws”), including, but not limited to (i) the Cybersecurity Review Measures which became effective on February 15, 2022; and (ii) approval by the Chinese Securities Regulatory Commission (“CSRC”) or any other Chinese regulatory authority to approve or permit our offering of securities in the U.S., do not currently apply to our Hong Kong subsidiaries, except for those set forth below. However, due to the uncertainty of the PRC legal system and changes in laws, regulations or policies, including how these laws, regulations or policies would be interpreted or implemented, and the national laws applicable in Hong Kong, the Basic Law might be revised in the future.

Pursuant to Article 18 of the Basic Law of the Hong Kong Special Administrative Region of the PRC (the “Basic Law”), “The laws in force in the Hong Kong Special Administrative Region shall be the Basic Law, the laws previously in force in Hong Kong as provided for in Article 8 of this Law, and the laws enacted by the legislature of the Region. National laws shall not be applied in the Hong Kong Special Administrative Region except for those listed in Annex III to the Basic Law. The laws listed therein shall be applied locally by way of promulgation or legislation by the Region. Also, regarding the Annex III and several Instruments of the Basic Law, National Laws, which have applied in Hong Kong until now are as following:

Resolution on the Capital, Calendar, National Anthem and National Flag of the PRC; Resolution on the National Day of the PRC; Declaration of the Government of the PRC on the Territorial Sea; Nationality Law of the PRC; Regulations of the PRC Concerning Diplomatic Privileges and Immunities; Law of the PRC on the National Flag; Regulations of the PRC Concerning Consular Privileges and Immunities; Law of the PRC on the National Emblem; Law of the PRC on the Territorial Sea and the Contiguous Zone; Law of the PRC on Garrisoning the Hong Kong Special Administrative Region; Law of the PRC on the Exclusive Economic Zone and the Continental Shelf; Law of the PRC on Judicial Immunity from Compulsory Measures Concerning the Property of Foreign Central Banks; and Law of the PRC on the National Anthem; Law of the PRC on Safeguarding National Security in the Hong Kong Special Administrative Region.

The CSRC released, on December 24, 2021, the Provisions of the State Council on the Administration of Domestic Companies Offering Securities for Overseas Listing (Revision Draft for Comments) (the “Provisions”) and the Administrative Measures for the Filing of Domestic Companies Seeking Overseas Securities Offering and Listing (the “Measures”) for public comment. According to the Provisions and Measures, “Domestic companies that seek to offer and list securities in overseas markets shall fulfill the filing procedure with the securities regulatory agency under the State Council and report relevant information;” and “An overseas offering and listing is prohibited under any of the following circumstances: (1) if the intended securities offering and listing falls under specific clauses in national laws and regulations and relevant provisions prohibiting such financing activities.” Furthermore, the Cybersecurity Review Measures (2021) was officially released to the public on December 28, 2021 and became effective on February 15, 2022. According to the Cybersecurity Review Measures (2021), “To go public abroad, an online platform operator who possesses the personal information of more than 1 million users shall declare to the Office of Cybersecurity Review for cybersecurity review.”

As of the date of this annual report, we have two wholly-owned subsidiaries and operating entities established in Hong Kong, Ebang Communications (HK) Technology Limited, or HK Ebang Communications, principally for the trading of blockchain chips; and HongKong Ebang Digital Technology Limited, or HK Ebang Digital, principally for cryptocurrency exchange businesses. Neither entities have established any subsidiary or branch in PRC or have committed any business operations in PRC. For additional information, see “Item 4. Information of the Company – C. Organizational Structure.”

Based on the aforementioned Basic Law, our Hong Kong subsidiaries are not subject to the Cybersecurity Measures and the Provisions and the Measures. However, due to the uncertainty of the PRC legal system and changes in laws, regulations or policies, including how these laws, regulations or policies would be interpreted or implemented, the national laws applicable in Hong Kong in the Basic Law might be revised in the future. Therefore, we cannot assure you that we will not be affected by the foregoing or relevant laws, regulations or policies in the future. If there are any changes to the foregoing laws, regulations and policies, or if any new laws, regulations, and policies, etc., would be published, we would manage to comply with the changed laws, regulations and policies. However, we could not guarantee that the relevant laws, regulations, or policies would not be applied retroactively, so we might face penalties, and our reputation and results of operations could be materially and adversely affected.

Risks Relating to Our Cryptocurrency, Blockchain and Mining Related Businesses

We are subject to risks associated with legal, political or other conditions or developments regarding holding, using or mining of Bitcoins, which could negatively affect our business, results of operations and financial position

Our customers are based globally. As such, changes in government policies, taxes, general economic and fiscal conditions, as well as political, diplomatic or social events, expose us to financial and business risks. In particular, changes in domestic or overseas policies and laws regarding holding, using and/or mining of Bitcoins could result in an adverse effect on our business operations and results of operations. Moreover, if any domestic or international jurisdiction where we operate or sell our Bitcoin mining machines prohibits or restricts Bitcoin mining activities, we may face legal and other liabilities and will experience a material loss of revenue.

There are significant uncertainties regarding future regulations pertaining to the holding, using or mining of Bitcoins, which may adversely affect our results of operations. While Bitcoin has gradually gained more market acceptance and attention, it is anonymous and may be used for black market transactions, money laundering, illegal activities or tax evasion. As a result, governments may seek to regulate, restrict, control or ban the holding, use mining holding of Bitcoins. In addition, due to compliance risk, cost, government regulation or public pressure, banks and financial institutions may not provide banking services, or may cut off services, to businesses that provide cryptocurrency-related services or that accept cryptocurrencies, including Bitcoins, as payment. Our existing policies and procedures for the detection and prevention of money laundering and terrorism-funding activities through our business activities have only been adopted in recent years and may not completely eliminate instances in which we or our products may be used by other parties to engage in money laundering and other illegal or improper activities. We cannot assure you that there will not be a failure in detecting money laundering or other illegal or improper activities which may adversely affect our reputation, business, financial condition and results of operations.

With advances in technology, cryptocurrencies are likely to undergo significant changes in the future. It remains uncertain whether Bitcoin will be able to cope with, or benefit from, those changes. In addition, as Bitcoin mining employs sophisticated and high computing power devices that need to consume large amounts of electricity to operate, future developments in the regulation of energy consumption, including possible restrictions on energy usage in the jurisdictions where we sell our products, may also affect our business operations and the demand for our current Bitcoin mining machines. There has been negative public reaction to the environmental impact of Bitcoin mining, particularly the large consumption of electricity, and governments of various jurisdictions have responded. For example, pursuant to the Notification No. 1283, new virtual currency mining projects are forbidden to apply for electricity facility installation, and the electricity facility installation shall be strictly reviewed. It is not permissible to supply power to virtual currency mining enterprises in any name, and all applications for electricity facility installation projects in progress shall be stopped. In the United States, certain local governments of the state of Washington have discussed measures to address the environmental impacts of Bitcoin-related operations, such as the high electricity consumption of Bitcoin mining activities. Any legislation and increased regulation regarding climate change could impose significant costs on us and our suppliers, including costs related to increased energy requirements, capital equipment, environmental monitoring and reporting, and other costs to comply with such regulations. Specifically, imposition of a carbon tax or other regulatory fee in a jurisdiction where we operate or on electricity that we purchase could result in substantially higher energy costs, and due to the significant amount of electrical power required to operate cryptocurrency mining machines, could in turn put our facilities at a competitive disadvantage. Any future climate change regulations could also negatively impact our ability to compete with companies situated in areas not subject to such limitations. Given the political significance and uncertainty around the impact of climate change and how it should be addressed, we cannot predict how legislation and regulation will affect our financial condition, operating performance and ability to compete. Furthermore, even without such regulation, increased awareness and any adverse publicity in the global marketplace about potential impacts on climate change by us or other companies in our industry could harm our reputation. Any of the foregoing could have a material adverse effect on our financial position, results of operations and cash flows.

The current regulatory environment in foreign markets, and any adverse changes in that environment, could have a material adverse impact on our blockchain products business and our cryptocurrency exchange and financial service platform businesses

We currently export our products to various overseas markets, have established two cryptocurrency trading exchanges, and we intend to further develop our business and operations in overseas jurisdictions in the future to provide cryptocurrency trading related services to cryptocurrency communities, including, but not limited to, Singapore, the Bahamas, Hong Kong, New Zealand and the United States. Our blockchain products business and planned cryptocurrency and financial services platform businesses could therefore be significantly affected by regulatory developments in jurisdictions outside the PRC, including the United States and other jurisdictions.

Certain aspects of business are subject to extensive laws, rules, regulations, policies and legal and regulatory guidance, including those governing securities, commodities, cryptocurrency asset custody, exchange and transfer, data governance, data protection, cybersecurity and tax. Many of these legal and regulatory regimes were adopted prior to the advent of the Internet, mobile technologies, cryptocurrency assets and related technologies. As a result, they do not contemplate or address unique issues associated with the crypto economy, are subject to significant uncertainty, and vary widely across federal, state and local laws, including the PRC and international jurisdictions. These legal and regulatory regimes, including the laws, rules and regulations thereunder, evolve frequently and may be modified, interpreted and applied in an inconsistent manner from one jurisdiction to another, and may conflict with one another. Moreover, the complexity and evolving nature of certain aspects of our business and the significant uncertainty surrounding the regulation of the crypto economy require us to exercise our judgement as to whether certain laws, rules and regulations apply to us, and it is possible that governmental bodies and regulators may disagree with our conclusions. In addition, governmental authorities that oversee certain aspects of the cryptocurrency markets, including those in the United States and other jurisdictions, have taken actions based on current laws and regulations, and are likely to continue to issue new laws, rules and regulations governing the cryptocurrency industry in which we currently operate and may operate in the future. As a result, and as discussed further in “- We are subject to risks associated with legal, political or other conditions or developments regarding holding, using or mining of Bitcoins, which could negatively affect our business, results of operations and financial position,” existing and future regulations affecting the mining, holding, using, or transferring of cryptocurrencies may adversely affect our future business operations and results of operations, could subject us to significant fines and other regulatory consequences, and could result in our or our customers’ liability for activities conducted by our customers.

As described under “Item 4. Information on the Company—B. Business Overview—Regulation—Regulatory Overview of United States,” United States federal and state securities laws may specifically limit our ability and the ability of our customers to use our blockchain and telecommunications products where these operations are conducted in connection with cryptocurrencies that are considered “securities” for purposes of United States laws. We have designed new chips for mining cryptocurrencies other than Bitcoin, and the likely status of these cryptocurrencies as securities could limit distributions, transfers, or other actions involving such cryptocurrencies, including mining, in the United States. For example, the distribution of cryptocurrencies to miners through the mining process could be deemed to involve an illegal offering or distribution of securities subject to United States federal or state laws. In addition, miners on cryptocurrency networks could, under certain circumstances, be viewed as statutory underwriters or as “brokers” subject to regulation under the Securities Exchange Act of 1934. This could require us or our customers to change, limit, or cease their mining operations, register as broker-dealers and comply with applicable laws, or be subject to penalties, including fines, or other regulatory consequences. In addition, we could face liability for facilitating their illegal activities.

Further, if Bitcoin, Ethereum, or any other supported cryptocurrency asset is deemed to be a security under any United States federal, state, or foreign jurisdiction, or in a proceeding in a court of law or otherwise, it may have adverse consequences for such supported cryptocurrency asset, which could adversely affect our business, prospects, operations or financial condition. For instance, all transactions in such supported cryptocurrency asset would have to be registered with the SEC or other foreign authority, or conducted in accordance with an exemption from registration, which could severely limit its liquidity, usability and transactability. Moreover, the networks on which such supported cryptocurrency assets are utilized may be required to be regulated as securities intermediaries, and subject to applicable rules, which could effectively render the network impracticable for its existing purposes. Further, it could draw negative publicity and a decline in the general acceptance of the cryptocurrency asset. Also, it may make it difficult for such supported cryptocurrency asset to be traded, cleared, and custodied as compared to other cryptocurrency asset that are not considered to be securities. Specifically, even if transactions in a cryptocurrency asset were registered with the SEC or conducted in accordance with an exemption from registration, the current intermediary-based framework for securities trading, clearance and settlement is not consistent with the operations of the cryptocurrency asset market. For example, under current SEC guidance, cryptocurrency asset securities cannot be held on behalf of customers by broker-dealers that also support custody of traditional securities; and the SEC has not permitted public permissionless blockchain-based clearance and settlement systems for securities.

In addition, cryptocurrencies are subject to additional U.S. laws and regulations related to transactions in commodities as enforced by the Commodity Futures Trading Commission, or CFTC, and to money transmission, money service business, anti-money laundering, and know-your-customer activities as enforced by the Department of the Treasury’s Financial Crimes Enforcement Network, or FinCEN, and by state governments. We or our customers could be subject to regulatory restrictions or regulatory actions based on these laws and regulations.

Under the Investment Company Act of 1940, as amended, a company may fall within the definition of an investment company under section 3(c)(1)(A) thereof if it is or holds itself out as being engaged primarily, or proposes to engage primarily in the business of investing, reinvesting or trading in securities, or under section 3(a)(1)(C) thereof if it is engaged or proposes to engage in business of investing, reinvesting, owning, holding, or trading in securities, and owns or proposes to acquire “investment securities” (as defined) having a value exceeding 40% of its total assets (exclusive of government securities and cash items) on an unconsolidated basis. There is no authoritative law, rule or binding guidance published by the SEC regarding the status of digital assets as “securities” or “investment securities” under the Investment Company Act. Although we believe that we are not engaged in the business of investing, reinvesting, or trading in investment securities, and we do not hold ourselves out as being primarily engaged, or proposing to engage primarily, in the business of investing, reinvesting or trading in securities, to the extent the digital assets which we own or otherwise acquire may be deemed “securities” or “investment securities” by the SEC or a court of competent jurisdiction, we may meet the definition of an investment company. If we fall within the definition of an investment company under the Investment Company Act, we would be required to register with the SEC. If an investment company fails to register, it likely would have to stop doing almost all business, and its contracts would become voidable. Generally non-U.S. issuers may not register as an investment company without an SEC order.

Cryptocurrency is a recent technological innovation and the regulatory schemes to which cryptocurrency and the related exchange may be subject have not been fully explored or developed by foreign jurisdictions. Thus, cryptocurrency faces an uncertain regulatory landscape in many foreign jurisdictions. Various foreign jurisdictions may from time to time adopt laws, regulations or directives that affect our cryptocurrency businesses. Due in part to its international nature and the nascent stage of regulation, along with the limited experience with cryptocurrency, and language barriers between international journalists, translators and regulators, information regarding the regulation of cryptocurrency in various jurisdictions may be incomplete, inaccurate or unreliable. As both the regulatory landscape develops and journalistic familiarity with cryptocurrency increases, mainstream media's understanding of cryptocurrency and the regulation thereof may improve. As we enter into the markets in Australia, Singapore, the Bahamas, Hong Kong, New Zealand and the United States, we have retained local regulatory counsels and expect to continue to monitor the local regulations regarding cryptocurrency and financial service platforms.

We expect that regulations governing our current and planned business operations will vary from country to country as well as within countries. We cannot assure you that we will be familiar with local laws and regulations at all times when we establish cryptocurrency and financial services platform businesses or develop any other business and operations in a foreign country. An increase in the regulation of such operations may affect our proposed businesses by increasing compliance costs or prohibiting certain or all of our proposed activities. In addition, existing and proposed laws and regulations can delay or impede the development of new products, result in negative publicity, decrease demand for our products, require significant management time and attention, and subject us to claims or other remedies, including fines or demands that we modify or cease existing business practices.

Furthermore, any action brought against us or our customers by a foreign regulator, or by an individual in a private action, based on foreign law could cause us or our customers to incur significant legal expenses and divert our management's attention from the operation of the business. If our or our customers' operations are found to be in violation of any laws and regulations, we or they may be subject to penalties associated with the violation, including civil and criminal penalties, damages and fines. This could in turn require us to curtail or cease all or some operations. Regulatory action or regulatory change could also decrease demand for our products and services, which would be harmful to the success of our business.

The future development and growth of cryptocurrency is subject to a variety of factors that are difficult to predict and evaluate. If cryptocurrency does not grow as we expect, our business, operating results, and financial condition could be adversely affected

Cryptocurrency assets built on blockchain technology were only introduced in 2008 and remain in the early stages of development. In addition, different cryptocurrency assets are designed for different purposes. Bitcoin, for instance, was designed to serve as a peer-to-peer electronic cash system, while Ethereum was designed to be a smart contract and decentralized application platform. Many other cryptocurrency networks, ranging from cloud computing to tokenized securities networks, have only recently been established. The further growth and development of any cryptocurrency assets and their underlying networks and other cryptographic and algorithmic protocols governing the creation, transfer, and usage of cryptocurrency assets represent a new and evolving paradigm that is subject to a variety of factors that are difficult to evaluate, including:

- many cryptocurrency networks have limited operating histories, have not been validated in production, and are still in the process of developing and making significant decisions that will affect the design, supply, issuance, functionality, and governance of their respective cryptocurrency assets and underlying blockchain networks, any of which could adversely affect their respective cryptocurrency assets;
- many cryptocurrency networks are in the process of implementing software upgrades and other changes to their protocols, which could introduce bugs, security risks, or adversely affect the respective cryptocurrency networks;
- several large networks, including Bitcoin and Ethereum, are developing new features to address fundamental speed, scalability, and energy usage issues. If these issues are not successfully addressed, or are unable to receive widespread adoption, it could adversely affect the underlying cryptocurrency assets;

- security issues, bugs, and software errors have been identified with many cryptocurrency assets and their underlying blockchain networks, some of which have been exploited by malicious actors. There are also inherent security weaknesses in some cryptocurrency assets, such as when creators of certain cryptocurrency networks use procedures that could allow hackers to counterfeit tokens. Any weaknesses identified with a cryptocurrency asset could adversely affect its price, security, liquidity, and adoption. If a malicious actor or botnet (a volunteer or hacked collection of computers controlled by networked software coordinating the actions of the computers) obtains a majority of the compute or staking power on a cryptocurrency network, as has happened in the past, it may be able to manipulate transactions, which could cause financial losses to holders, damage the network’s reputation and security, and adversely affect its value;
- the development of new technologies for mining, such as improved ASICs, or changes in industry patterns, such as the consolidation of mining power in a small number of large mining farms, could reduce the security of blockchain networks, lead to increased liquid supply of cryptocurrency assets, and reduce a crypto’s price and attractiveness;
- if rewards and transaction fees for miners or validators are not sufficiently high to attract and retain miners, a cryptocurrency network’s security and speed may be adversely affected, increasing the likelihood of a malicious attack;
- the governance of many decentralized blockchain networks is by voluntary consensus and open competition, and many developers are not directly compensated for their contributions. As a result, there may be a lack of consensus or clarity on the governance of any particular cryptocurrency network, a lack of incentives for developers to maintain or develop the network, and other unforeseen issues, any of which could result in unexpected or undesirable errors, bugs, or changes, or stymie such network’s utility and ability to respond to challenges and grow; and
- many cryptocurrency networks are in the early stages of developing partnerships and collaborations, all of which may not succeed and adversely affect the usability and adoption of the respective cryptocurrency assets.

Various other technical issues have also been uncovered from time to time that resulted in disabled functionalities, exposure of certain users’ personal information, theft of users’ assets, and other negative consequences, and which required resolution with the attention and efforts of their global miner, user, and development communities. If any such risks or other risks materialize, and in particular if they are not resolved, the development and growth of cryptocurrency may be significantly affected and, as a result, our business, operating results, and financial condition could be adversely affected.

Future developments regarding the treatment of cryptocurrency assets for U.S. and foreign tax purposes could adversely impact our business

Due to the new and evolving nature of cryptocurrency assets and the absence of comprehensive legal and tax guidance with respect to cryptocurrency asset products and transactions, many significant aspects of the U.S. and foreign tax treatment of transactions involving cryptocurrency assets, such as the purchase and sale of cryptocurrency assets on our platform, as well as the provision of staking rewards and other cryptocurrency asset incentives, are uncertain, and it is unclear whether, when and what guidance may be issued in the future on the treatment of cryptocurrency asset transactions for U.S. and foreign income tax purposes.

In 2014, the IRS released Notice 2014-21, discussing certain aspects of “virtual currency” for U.S. federal income tax purposes and, in particular, stating that such virtual currency (i) is “property,” (ii) is not “currency” for purposes of the rules relating to foreign currency gain or loss, and (iii) may be held as a capital asset. In 2019, the IRS released Revenue Ruling 2019-24 and a set of “Frequently Asked Questions” (which have been periodically updated), that provide additional guidance, including guidance to the effect that, under certain circumstances, hard forks of digital currencies are taxable events giving rise to ordinary income and guidance with respect to the determination of the tax basis of virtual currency. However, this guidance does not address other significant aspects of the U.S. federal income tax treatment of cryptocurrency assets and related transactions.

There continues to be uncertainty with respect to the timing, character and amount of income inclusions for various cryptocurrency asset transactions including, but not limited to lending and borrowing cryptocurrency assets, staking rewards and other cryptocurrency asset incentives that we offer. Although we believe our treatment of cryptocurrency asset transactions for federal income tax purposes is consistent with existing guidance provided by the IRS and existing U.S. federal income tax principles, because of the rapidly evolving nature of cryptocurrency asset innovations and the increasing variety and complexity of cryptocurrency asset transactions and products, it is possible the IRS and various U.S. states may disagree with our treatment of certain cryptocurrency asset offerings for U.S. tax purposes, which could adversely affect our customers and the vitality of our business and platforms.

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

Our results of operations have been and are expected to continue to be significantly impacted by the fluctuation of cryptocurrency prices, especially the price of Bitcoin

Our mining machines are currently designed primarily for Bitcoin mining. The demand for, and pricing of, our mining machines are therefore affected by the expected economic returns of Bitcoin mining activities, which in turn are primarily driven by, among other factors, the Bitcoin price. The price of Bitcoin has experienced significant fluctuations over its short existence and may continue to fluctuate significantly in the future. According to Bitcoin.com, Bitcoin prices ranged from approximately US\$7,174 per coin as of December 31, 2019, US\$28,968 per coin as of December 31, 2020, to US\$47,394 per coin as of December 31, 2021. According to the same source, from January 1, 2021 to December 31, 2021, the highest Bitcoin price was approximately US\$67,492 per coin and the lowest was US\$29,962 per coin. Bitcoin prices began to pick up in the second quarter of 2019, and we recorded a revenue of \$109.1 million in 2019. After the outbreak of COVID-19 at the end of 2019, there was a sudden panic in the global market. Although the price of Bitcoin increased significantly in October 2020, raw material shortages extended into the end of 2020, caused by uncertain international economic conditions and strained supply chains in various countries, which in turn had a negative impact on our business and operating results. We recorded revenue of US\$19 million in 2020. Since 2021, the price of Bitcoin has maintained at a high level with volatility, and enterprises have also actively resumed production globally, with investors returning to digital currency and blockchain investment. Our sales volume has increased significantly compared with the previous year, with a revenue of \$51 million in 2021.

We expect our results of operations to continue to be affected by cryptocurrency prices and shortage of raw materials caused by the COVID-19 pandemic, as we generated 82.4%, 42.3% and 77.3% of our revenue from sales of our Bitcoin mining machines and related accessories in 2019, 2020 and 2021, respectively, and 14.4%, 48.1% and 5.5% from provision of mining machine hosting services in the same periods, respectively. With the launch of our two cryptocurrency exchange platforms, and our plan to develop and operate future cryptocurrency exchange platforms and/or online brokerage, we anticipate that we will generate an increasing amount of our total revenue from transaction fees on our platforms and/or online brokerages in connection with the purchase, sale, and trading of cryptocurrency assets by our customers. To date, we have not generated significant revenue from these products and services; most of which will also fluctuate based on the price of cryptocurrency assets. As such, any declines in the volume of cryptocurrency assets transactions, the price of cryptocurrency assets, or market liquidity for cryptocurrency assets generally will likely have a material and adverse effect on our results of operations and financial condition. We cannot assure you that the Bitcoin price or Bitcoin network transaction fees will remain high enough to sustain the demand for our Bitcoin mining machines or that cryptocurrency prices will not decline significantly in the future. At the same time, if transaction fees increase to such an extent as to discourage users from using cryptocurrency as a medium of exchange, it may decrease the transaction volume of the cryptocurrency network and may affect the demand for our Bitcoin mining machines, hosting services, cryptocurrency exchange and online brokerage businesses. Furthermore, fluctuations in cryptocurrency prices, especially in Bitcoin price, can have an immediate impact on the trading price of our Class A ordinary shares even before our financial performance is affected, if at all.

In addition to the market volatility, various other factors, mostly beyond our control, could impact cryptocurrency prices. For example, the usage of cryptocurrency in the retail and commercial marketplace is relatively low in comparison with the usage for speculation, which contributes to cryptocurrency price volatility. Renowned persons, including social media influencers, may also publicly discuss their holdings (or the holdings of companies with which they are affiliated) of cryptocurrency or their intent to buy or sell large quantities of cryptocurrency. At a minimum, these public statements delivered through social media, such as Twitter, may cause cryptocurrency prices to experience significant volatility.

In addition, any shortage of power supply due to government control measures or other reasons, and any increase in energy costs, would raise the costs of Bitcoin mining. This in turn could affect our customers' expected economic return for mining activities and the demand for and pricing of our current Bitcoin mining machines and future hosting services.

Furthermore, fluctuations in the Bitcoin price may affect the value of our inventory as well as the provision we make to the inventory as we manage our inventory based on, among others, the sales forecast of our Bitcoin mining machines. As we generally increase our procurement volume and stock up finished goods for the launch of new products or we expect a surge of demand of Bitcoin mining machines, a significant drop in the Bitcoin price can lead to a lower expected sales price and excessive inventory, which in turn will lead to impairment losses with respect to such inventory. For example, in 2019 and 2020, as a result of the significant drop in the Bitcoin price, we recorded write-downs for the potentially obsolete, slow-moving inventory and lower of cost or market adjustment of US\$6.3 million and US\$3.6 million in cost of revenues, respectively, which in turn had a significant negative impact on our profitability. In 2021, we also recorded write-downs for the potentially obsolete, slow-moving inventory and lower of cost or market adjustment of US\$2.2 million for the same reason. If the Bitcoin price drops significantly in the future, we may need to make similar write-downs again. To the extent that we are able to sell such inventory above its carrying value, our gross profit may also be inflated by such write down.

The Bitcoin price drop also adversely impacted the ability of our customers who purchased our Bitcoin mining products to make payments. We offered sales on credit to some of our customers in response to the Bitcoin price drop in 2019, 2020 and 2021 and may continue to offer credit sales when the Bitcoin price drops significantly. Additionally, if the Bitcoin price drops significantly in the future, we may need to offer to certain of our customers price concession, even if we generally do not offer a price concession to customers. See "Management's discussion and analysis on financial condition and results of operations—Critical Accounting Policies—Revenue recognition" for details. We did not provide price concession to customers in 2019, 2020 and 2021. However, we cannot assure you that we will not provide such price concession in the future. If we provide any price concession to our customers in the future, our revenues and results of operations may be adversely affected.

We have derived and may continue to derive a significant portion of our revenues from our Bitcoin mining machines business. If the market for Bitcoin mining machines ceases to exist or diminishes significantly, our business, results of operations and financial condition would be materially and adversely affected

We have generated, and expect to generate in the foreseeable future, a significant portion of our revenues from sales of our Bitcoin mining machines. Sales of our Bitcoin mining machines and related accessories accounted for 82.4%, 42.3% and 77.3% of our revenues in 2019, 2020 and 2021, respectively. Revenues from provision of mining machine hosting services also accounted for 14.4%, 48.1% and 5.5% of our revenues in 2019, 2020 and 2021, respectively. If the market for Bitcoin mining machines ceases to exist or diminishes significantly, we would experience a significant loss of sales, cancelation of orders, or loss of customers for our Bitcoin mining machines. Adverse factors that may affect the market for Bitcoin mining machines include:

- Another cryptocurrency, especially one that is not created using the same mining processes as Bitcoin, displaces Bitcoin as the mainstream cryptocurrency, thereby causing Bitcoin to lose value or become worthless, which could adversely affect the sustainability of our business.

- Bitcoin fails to gain wide market acceptance and fails to become a generally accepted medium of exchange in the global economy due to certain inherent limitations to cryptocurrencies.
- Over time, the reward for Bitcoin mining will decline in terms of the amount of Bitcoin awarded, which may reduce the incentive to mine Bitcoin. Specifically, a recent halving event occurred in May 2020, and Bitcoins are expected to be fully mined out by the year of 2140. Therefore, Bitcoin mining machines may become less productive as the available rewards for Bitcoin mining continue to decrease.

If we cannot maintain the scale and profitability of the sales of our Bitcoin mining machines and, at the same time, successfully expand our business in other application markets, our business, results of operations, financial condition and prospects will suffer. Furthermore, excess inventory, inventory markdowns, brand image deterioration and margin squeeze caused by declining economic returns for miners or pricing competition for our Bitcoin mining machines could all have a material and adverse effect on our business, results of operations and financial condition.

The industries in which we operate and which we intend to operate in the future are characterized by constant changes. If we fail to continuously innovate and to provide products that meet the expectations of our customers, we may be unable to attract new customers or retain existing customers, and hence our business and results of operations may be adversely affected

The industries in which we operate and intend to operate in the future are characterized by constant changes, including rapid technological evolution, continual shifts in customer demands, frequent introductions of new products and solutions and constant emergence of new industry standards and practices. Thus, our success will depend, in part, on our ability to respond to these changes in a cost-effective and timely manner. To maintain the relevancy of our products and to continue to broaden and enhance our product portfolio for delivering the most effective products to our customers, we have actively invested in product planning and research and development. The process of developing and marketing new products is inherently complex and involves significant uncertainties, including the following:

- our product planning efforts may fail resulting in the development or commercialization of new technologies or ideas;
- our research and development efforts may fail to translate new product plans into commercially feasible products;
- our new technologies or new products may not be well received by consumers;
- we may not have adequate funding and resources necessary for continual investments in product planning and research and development;
- our products may become obsolete due to rapid advancements in technology and changes in consumer preferences; and
- our newly developed technologies may not be protected as proprietary intellectual property rights.

Any failure to anticipate the next-generation technology roadmap or changes in customer preferences or to timely develop new or enhanced products in response could result in decreased revenue and market share. In particular, we may experience difficulties with product design, product development, marketing or certification, which could result in excessive research and development expenses and capital expenditure, delays or prevent our introduction of new or enhanced products. Furthermore, our research and development efforts may not yield the expected results, or may prove to be futile due to the lack of market demand.

Increasing mining difficulty and decreasing mining rewards could result in downward pressure on the expected economic returns on Bitcoin mining

The difficulty of Bitcoin mining, or the amount of computational resources required for a set amount of reward for recording a new block, directly affects the expected economic returns for Bitcoin miners, which in turn affects the demand for our Bitcoin mining machines. Bitcoin mining difficulty is a measure of how much computing power is required to record a new block, and it is affected by the total amount of computing power in the Bitcoin network. The Bitcoin algorithm is designed so that one block is generated, on average, every ten minutes, no matter how much computing power is in the network. Thus, as more computing power joins the network, and assuming the rate of block creation does not change (remaining at one block generated every ten minutes), the amount of computing power required to generate each block and hence the mining difficulty increases. In other words, based on the current design of the Bitcoin network, Bitcoin mining difficulty would increase together with the total computing power available in the Bitcoin network, which is in turn affected by the number of Bitcoin mining machines in operation. For example, Bitcoin mining difficulty would increase based on increases in the total computing power available in the Bitcoin network, which is in turn affected by the number of Bitcoin mining machines in operation. From January 2017 to December 2020, Bitcoin mining difficulty increased by approximately 72 times, according to BTC.com. As a result, a strong growth in sales of our Bitcoin mining machines can contribute to further growth in the total computing power in the network, thereby driving up the difficulty of Bitcoin mining and resulting in downward pressure on the expected economic return of Bitcoin mining and the demand for, and pricing of, our products.

In addition, the number of Bitcoins awarded for solving a block in the blockchain halves approximately every four years until the estimated complete depletion of Bitcoin by around the year 2140. In each of 2013, 2014 and 2015, approximately 25 Bitcoins were awarded for each block solved. The number of Bitcoins awarded for solving a block halved in 2016 to 12.5 Bitcoins per block, and halved again in May 2020 to 6.25 Bitcoins per block. We have experienced declined demand for Bitcoin mining machines since the Bitcoin halving event in May 2020 as the mining rewards were slashed and the expected economic returns on Bitcoin mining was adversely affected.

Aside from mining rewards, transaction fees are another form of incentive for participation in Bitcoin verification processes. Bitcoin users may offer to pay a discretionary Bitcoin transaction fee to the network member who solves the block and adds that user's transaction to the blockchain to incentivize prioritizing that user's transaction. Transaction fees are discretionary, so if the transaction fees were to become the only or primary income for Bitcoin mining activities in the future, the expected economic returns from Bitcoin mining and therefore the demand for our products will decrease significantly, which will result in a significant negative impact on our business and results of operations.

Our business growth is dependent on the development of blockchain technology and applications, particularly in the field of Bitcoin

We derive our revenue predominantly from our blockchain products business. The development of blockchain technology is still in a relatively early stage, and there can be no assurance that blockchain applications, including those in the fields of cryptocurrencies and other areas such as artificial intelligence, will gain wide market acceptance. Any blockchain application may become redundant or obsolete with the introduction of new competing technologies or products. If market acceptance or confidence in blockchain technology is lost or reduced for any reason, such as due to cybersecurity issues, the demand for our existing or future blockchain products may decline.

Our blockchain products business depends significantly on the development of cryptocurrency applications, in particular, Bitcoin applications, as all of our mining machines are currently designed for Bitcoin mining. The cryptocurrency market is rapidly and continuously evolving. Any actual or perceived adverse development in Bitcoin or other cryptocurrencies can significantly affect market demand for mining activities, mining machines and cryptocurrency transactions. In addition, any event or rumor that generates negative publicity for the cryptocurrency market could hinder the development and reduce market acceptance of cryptocurrency applications. Under such circumstances, our business, results of operations and financial condition could be materially and adversely affected.

If we are unable to manage our growth or execute our strategies effectively, our business, results of operations and financial condition may be materially and adversely affected

We are in the process of developing integrated circuits (the “ICs”) for mining other cryptocurrencies in order to adapt our future models of mining machines to other cryptocurrencies promptly and efficiently when all the Bitcoins have been discovered or Bitcoin is replaced by other cryptocurrencies as the mainstream cryptocurrency. We began to provide mining machine hosting services in 2017 and intend to leverage our experience in the mining machine industry to establish mining farms and provide cryptocurrency trading-related services to the cryptocurrency community in order to diversify our offerings. We have halted all mining machine custody services in the PRC at the end of April 2021, and we are in the process of locating and/or constructing compliant mining farms in North America and Europe. As of the date of this annual report, we have established two cryptocurrency exchange platforms outside the PRC; have received registration approval from the Australian Transaction Reports and Analysis Centre (AUSTRAC) as a digital currency exchange and acquired a company with an Australian Financial Services License (AFSL) for engaging in financial services in Australia; have received the Trust or Company Service Providers (TCSP) license and approval to provide company and trust service business in Hong Kong; and we are in the process of obtaining relevant licenses and approvals for our subsidiaries in Singapore, Hong Kong, the Bahamas and New Zealand to engage in cryptocurrency trading. We also intend to set up a cryptocurrency exchange platform and/or online brokerage services in the United States. We may fail to successfully execute our expansion plan due to our limited resources and other reasons beyond our control. For example, the gain we obtain from running mining farms may not cover their operating expenses due to a prolonged depression of cryptocurrency prices, and our cryptocurrency trading related services may be unable to compete effectively with other similar services already available to the cryptocurrency community. Should we fail to successfully manage our growth or implement our strategies, the resources we allocate to the new business lines will be wasted, and our business, results of operations and financial condition could be materially and adversely affected.

Each of our subsidiaries in Hong Kong, Canada, Australia, Singapore, the Bahamas, New Zealand and the United States have a limited operating history, which makes it hard for us to evaluate their ability to generate revenue through operations, and to date, each of them has not generated significant revenue from any commercially available blockchain-based products or services

Our subsidiaries in Hong Kong, Canada, Australia, Singapore, the Bahamas, New Zealand and the United States were recently formed from August 2020 to November 2021 for the purpose of establishing our cryptocurrency exchanges and online brokerages. Their limited operating history and the relative immaturity of the blockchain industry make it difficult for us to evaluate their current business and future prospects. They have encountered, and will continue to encounter, risks and difficulties frequently experienced by growing companies in rapidly developing and changing industries, including challenges in forecasting accuracy, determining appropriate uses of their limited resources, gaining market acceptance, managing a complex and evolving regulatory landscape and developing new products. These subsidiaries’ current or future operating model may require changes in order for them to scale their operations efficiently and be successful. Investors in our securities should consider the business and prospects of our overseas subsidiaries in these countries in light of the risks and difficulties they face as early-stage companies focused on developing products in the field of financial technology.

We may not successfully develop, market or launch any future cryptocurrency exchanges or online brokerages or continue operating our existing cryptocurrency exchanges

In April 2021, we launched our first self-developed proprietary cryptocurrency exchange platform Ebonex and in February 2022, we launched another self-developed proprietary cryptocurrency exchange platform, also branded Ebonex, in Australia. As of the date of this annual report, both cryptocurrency exchange platforms have only been accessed and/or utilized by a small number of users and have not generated significant revenue. In December 2021 and March 2022, we have received registration approval from the AUSTRAC as a digital currency exchange and acquired a company with an AFSL for engaging in financial services in Australia. In September and December 2021, we have received the TCSP License and approval from the Companies Registry of Hong Kong, which will allow us to engage in company and trust service business in Hong Kong. In January 2022, we have received registration approval as a Trust Company by the Companies Registry of Hong Kong, which will allow us to engage in trust related business in Hong Kong. We are in the process of obtaining relevant licenses and approvals for our subsidiaries in Singapore, Hong Kong, the Bahamas and New Zealand to engage in cryptocurrency trading and we are at an initial preparatory stage of executing our plan to launch blockchain-enabled financial business or online brokerages in the United States. There is no guarantee that we will receive any additional required approvals and licenses for our proposed business in such jurisdictions in a timely manner or on commercially reasonable terms, or at all, or that we will commence the proposed business as planned, or at all. Additionally, as we have limited experience in operating the proposed business, we will need to obtain additional management, regulatory compliance technical expertise and devote substantial time and effort to these initiatives, which may not be as profitable as we expected or at all. We also need to obtain additional capital resources to pursue development of cryptocurrency exchanges or online brokerages, and we may not be successful in raising that capital. In addition, we may face relevant restrictions from existing and future regulations in connection with our expansion into this line of business. While we have been closely monitoring the development of the relevant regulations and have been in communication with regulatory authorities, this business initiative may not be viable due to regulatory concerns. Our plan to develop, market or launch any future cryptocurrency exchanges or online brokerages or to continue operating our existing cryptocurrency exchanges may suffer significant delays in our efforts and may ultimately not be successful. It is possible that the launch of our future cryptocurrency exchanges and/or online brokerages may never occur, and even if the proposed business is successfully developed, it is possible that it will not be accessed or utilized by a sufficient number of users or will otherwise not achieve viable business scale or market acceptance.

We depend on major mobile operating systems and third-party platforms for the distribution of certain products. If Google Play, the Apple App Store, or other platforms prevent customers from downloading our apps, our ability to grow may be adversely affected

We rely upon third-party platforms for the distribution of certain products and services. Our Ebonex apps are provided to eligible users as free applications through both the Apple App Store and the Google Play Store, and are also accessible via mobile and traditional websites. The Google Play Store and Apple App Store are global application distribution platforms and the main distribution channels for our apps. As such, the promotion, distribution, and operation of our apps are subject to the respective platforms' terms and policies for application developers, which are very broad and subject to frequent changes and re-interpretation. Further, these distribution platforms often contain restrictions related to cryptocurrency assets that are uncertain, broadly construed, and can limit the nature and scope of services that can be offered. If our products are found to be in violation of any such terms and conditions, we may no longer be able to offer our products through such third-party platforms. There can be no guarantee that third-party platforms will continue to support our product offerings, or that customers will be able to continue to use our products. Any changes, bugs, technical or regulatory issues with third-party platforms, our relationships with mobile manufacturers and carriers, or changes to their terms of service or policies could degrade our products' functionalities, reduce or eliminate our ability to distribute our products, give preferential treatment to competitive products, limit our ability to deliver high quality offerings, or impose fees or other charges, any of which could affect our product usage and harm our business.

Our intellectual property rights are valuable, and any inability to protect them could adversely impact our business, operating results, and financial condition

Our business depends in large part on our proprietary technology and our brand. We rely on, and expect to continue to rely on, a combination of patent, trademark, trade dress, domain name, copyright, and trade secrets, as well as confidentiality and license agreements with our employees, contractors, consultants, and third parties with whom we have relationships, to establish and protect our brand and other intellectual property rights. However, our efforts to protect our intellectual property rights may not be sufficient or effective. Our proprietary technology and trade secrets could be lost through misappropriation or breach of our confidentiality and license agreements, and any of our intellectual property rights may be challenged, which could result in them being narrowed in scope or declared invalid or unenforceable. There can be no assurance that our intellectual property rights will be sufficient to protect against others offering products, services, or technologies that are substantially similar to ours and that compete with our business. As a result, we may be forced into an adverse price competition that reduces our profit margin.

Our ability to successfully defend intellectual property challenges from competitors and other parties may depend, in part, on our ability to counter-assert our patents defensively. Effective protection of our intellectual property may be expensive and difficult to maintain, both in terms of application and registration costs as well as the costs of defending and enforcing those rights. As we have grown, we have sought to obtain and protect our intellectual property rights in an increasing number of countries, a process that can be expensive and may not always be successful. In some instances, patent applications or patents may be abandoned or allowed to lapse, resulting in partial or complete loss of patent rights in a relevant jurisdiction. Further, intellectual property protection may not be available to us in every country in which our products and services are available. For example, some foreign countries have compulsory licensing laws under which a patent owner must grant licenses to third parties. In addition, many countries limit the enforceability of patents against certain third parties, including government agencies or government contractors. In these countries, patents may provide limited or no benefit. We may also agree to license our patents to third parties as part of various patent pools and open patent projects. Those licenses may diminish our ability, though, to counter-assert our patents against certain parties that may bring claims against us. Even when we are able to obtain intellectual property rights protections, there is no guarantee that we will be able to effectively enforce our rights. In this respect, we may incur expenses and efforts to monitor and enforce our intellectual property rights. Infringement of our intellectual property rights and the resulting diversion of resources to protect such rights through litigation or other means could also adversely affect our profitability.

If Bitcoin is replaced by other cryptocurrencies as the mainstream cryptocurrency, we will lose the market for our current mining machines and our results of operations will be materially and adversely affected

Although we have begun to develop new chips for mining other cryptocurrencies, all of our revenue from sales of cryptocurrency mining machines was generated from the sale of mining machines designed for Bitcoin mining in 2019, 2020 and 2021. We face the risk that other cryptocurrencies could replace Bitcoin as the largest cryptocurrency, which may in turn negatively impact the value of Bitcoin and diminish interest in mining Bitcoin. Acceptance of Bitcoin may decline due to various reasons such as the following:

- potential changes in Bitcoin’s algorithms or source code may negatively impact user acceptance;
- patches, upgrades, attacks or hacking of Bitcoin’s infrastructure may undermine user interest or confidence;
- usage of Bitcoin for illicit or illegal activities by bad actors may erode public perception of Bitcoin; or
- hacking, fraud or other problems with Bitcoin exchanges, wallets or other related infrastructure may negatively impact user confidence.

If fewer people accept Bitcoin currency or fewer merchants accept Bitcoin as a payment method, Bitcoin may decline in value. Although Bitcoin is currently the largest cryptocurrency by market capitalization, a substantial amount of Bitcoin-related transactions may be speculation-related and a technological breakthrough in the form of a better cryptocurrency is a continuous threat. Other cryptocurrencies may be designed with algorithms that are not compatible with the kind of computing done by application-specific integrated circuit (“ASIC”) chip mining machines. If such a cryptocurrency were to become dominant, our existing technological know-how may not be applicable in creating hardware for participants in that cryptocurrency network, and we may face greater competition from new players. In addition, since the value of and support for Bitcoin depend entirely on the community using it, any disagreement between the users may result in the splitting of the network to support other cryptocurrencies and the users may sell all their Bitcoins and switch to other cryptocurrencies. As a result, our mining machines and our results of operations would be materially and adversely affected.

We rely on a limited number of third parties to fabricate our ASIC chips, which are the core technology used in our mining machines

The ASIC chip is the key component of a mining machine as it determines the efficiency of the device. Currently, only a small number of wafer foundries in the world are capable of producing the highly sophisticated silicon wafers used for ASIC chips. Therefore, the ability to source high-quality wafers is a major barrier to entry for new entrants and has provided us with a great competitive advantage in the market.

In 2019, 2020 and 2021, all of our ASIC wafers were fabricated by Samsung. We principally purchased ASIC chips either directly from Samsung or through intermediaries that purchased from Samsung. However, this arrangement does not guarantee that Samsung will reserve foundry capacity for us, which we believe is in line with market arrangements with other wafer foundries. As such, there are risks that Samsung may be unable to accept our purchase orders or continue their supply of ASIC wafers to us. Such changes may result in delays to our production, which could negatively affect our reputation and results of operations.

In order to reduce our reliance on Samsung, we have established working relations with Taiwan Semiconductor Manufacturing Company, Limited, or TSMC, since November 2017. However, we cannot guarantee that we will be able to continue to source ASIC wafers from Samsung or TSMC on the same or similar terms or in a timely manner, or start to source ASIC wafers from other suppliers. In addition, replacing a supplier may require that we divert attention and resources away from our business. We may also suffer lower gross profit margins if we fail to pass on any additional costs to our customers. As a result, a change in our relationship with Samsung or TSMC could have a significant negative impact on our business, financial condition and results of operation.

We depend on a limited number of suppliers to allocate to us a portion of their manufacturing capacity sufficient to meet our needs, to produce products of acceptable quality and at acceptable final test yields, and to deliver those products to us on a timely basis and at acceptable prices. These suppliers may raise prices or may be unable to meet our required capacity for any reason, such as shortages or delays in the shipment of semiconductor equipment or raw materials required to manufacture our ICs. In particular, we have experienced a global shortage in semiconductors beginning 2021, which may have adversely impacted the production activity and capacity of our third-party foundry partners. If these third-party foundry partners fail to succeed in their technology migration or secure enough semiconductors, they will not be able to deliver to us qualified ICs in a sufficient amount, which will significantly affect our technological advancement and shipment of Bitcoin mining machines. This could in turn result in lost sales and have a material adverse effect on our relationships with our customers and on our business and financial condition. In addition, our business relationships with the suppliers may deteriorate. For example, in November 2019, we brought a legal action against a then-major supplier for breach of contract for delivering defective products. Under such circumstances, we may not be able to obtain the required capacity and would have to seek alternative suppliers, which may not be available on commercially reasonable terms, or at all. Moreover, it is possible that other customers of these suppliers that are larger and/or better financed than we are, or that have long-term contracts with them, may receive preferential treatment in terms of capacity allocation or pricing. In addition, if we do not accurately forecast our capacity needs, these suppliers may not have available capacity to meet our immediate needs or we may be required to pay higher costs to fulfill those needs, either of which could materially and adversely affect our business, financial condition and results of operations.

In particular, the production of our ASICs may require advanced IC fabrication technologies. Foundries other than Samsung or TSMC, however, might not have sufficient production capacity for such technologies, or at all, to meet our requirements. This may expose us to risks associated with engaging new foundries. For example, using foundries with which we have not established relationships could expose us to potentially unfavorable pricing, unsatisfactory quality or insufficient capacity allocation.

Other risks associated with the concentration of third-party foundry suppliers include limited control over delivery schedules and quality assurance, lack of capacity in periods of excess demand, unauthorized use of our intellectual property and limited ability to manage inventory and parts. In particular, although we have entered into confidentiality agreements with our third-party foundry suppliers for the protection of our intellectual property, it may not protect our intellectual property with the same degree of care as we use to protect our intellectual property. If we fail to properly manage any of these risks, our business and results of operations may be materially and adversely affected. Moreover, if Samsung or TSMC suffers any damage to its facilities, suspends manufacturing operations, loses benefits under material agreements, experiences power outages or computer virus attacks, lacks sufficient capacity to manufacture our products, encounters financial difficulties, is unable to secure necessary raw materials from its suppliers or suffers any other disruption or reduction in efficiency, we may encounter supply delays or disruptions. Further, the recent trade disputes between Japan and South Korea could materially and adversely affect Samsung's supply of ASIC wafers. In July 2019, Japan decided to restrict exports to South Korea of certain materials used in memory chips. Such measures created massive pressures on the production activities of Samsung. If such trade tensions continue escalating without a resolution and Samsung cannot secure alternative supply of key materials that are banned by Japan, Samsung's ability to supply us with adequate ASIC wafers, which are the core components of our mining machines, may be jeopardized, and as a result, our business and results of operations may be materially and adversely affected.

We rely on a limited number of third parties for IC packaging and testing services

Fabrication of IC chips requires specialized services to process the silicon wafers into IC chips by packaging them and to test their proper functioning. We rely on a limited number of production partners for such packaging and testing services. We have worked closely with world-class outsourced semiconductor assembly and test, or OSAT, companies on a limited number of specialized production partners exposes us to a number of risks, including difficulties in finding alternate suppliers, capacity shortages or delays, lack of control or oversight in timing, quality or costs, and misuse of our intellectual property. If any such problems arise with our OSAT partners, we may experience delays in our production and delivery timeline, inadequate quality control of our products or excessive costs and expenses. As a result, our financial condition, results of operation, reputation and business may be adversely affected.

Failure at tape-out or failure to achieve the expected final test yields for our ASIC chips could negatively impact our results of operations

The tape-out process is a critical milestone in our business. A successful tape-out means all the stages in the design and verification process of our ASIC chips have been completed, and the chip design is ready to be sent for manufacturing. The tape-out process requires considerable investment in time and resources and close cooperation with the wafer foundry, and repeated failures can significantly increase our costs, lengthen our product development period and delay our product launch. If the tape-out or testing of a new ASIC chip design fails, either as a result of design flaws by our research and development team or problems with production or the testing process by the wafer foundry, we may incur considerable costs and expenses to fix or restart the design process. Such obstacles may decrease our profitability or delay the launch of new products.

Once tape-out is successful, the ASIC design is sent for manufacturing, and the final test yield is a measurement of the production success rate. The final test yield is a function of both product design, which is developed by us, and process technology, which typically belongs to a third-party foundry, such as Samsung and TSMC in our case. Low final test yields can result from a product design deficiency or a process technology failure or a combination of both. As such, we may not be able to identify problems causing low final test yields until our product designs go to the manufacturing stage, which may substantially increase our per unit costs and delay the launch of new products.

For example, if either Samsung or TSMC experiences manufacturing inefficiencies or encounters disruptions, errors or difficulties during production, we may fail to achieve acceptable final test yields or experience product delivery delays. We cannot guarantee that Samsung and TSMC will be able to develop, obtain or successfully implement process technologies needed to manufacture future generations of our mining machines on a timely basis. Moreover, during the periods in which foundries are implementing new process technologies, their manufacturing facilities may not be fully productive. A substantial delay in the technology transitions to smaller geometry process technologies could have a material and adverse effect on us, particularly if our competitors transition to such technologies before us.

In addition, resolution of yield problems requires cooperation among us, Samsung or TSMC, and packaging and testing partners. We cannot assure you that the cooperation will be successful and that any yield problem can be fixed.

If any person, institution or a pool of them acting in concert obtains control of more than 50% of the processing power active on the Bitcoin network, such person, institution or a pool of them could prevent new transactions from gaining confirmations, halt payments between users, and reverse previously completed transactions, which would erode user confidence in Bitcoin

If the award of Bitcoins for solving blocks and transaction fees for recording transactions are not sufficiently high to incentivize miners, miners may cease expending processing power to solve blocks. Miners ceasing operations would reduce the collective processing power on the Bitcoin network, which would adversely affect the confirmation process for transactions and make the Bitcoin network more vulnerable to any person, institution or a pool of them which has obtained over 50% control over the computing power on the Bitcoin network. In such event, such person, institution or a pool of them could prevent new transactions from gaining confirmation, halt payments between users, and reverse previously completed transactions. Such changes or any reduction in confidence in the confirmation process or processing power of the Bitcoin network may erode user confidence in Bitcoin, which would decrease the demand for our products.

The decentralized nature of cryptocurrency may be subject to challenges, which could negatively affect our results of operations

A key reason for Bitcoin and other cryptocurrencies to have attracted many new and committed users in a short period of time is its decentralized nature, or the lack of control by a central authority. However, there are divergent views on the decentralized nature of cryptocurrencies. For example, there are claims that most of the actual services and businesses built within the cryptocurrency ecosystem are in fact centralized since they are run by specific people, in specific locations, with specific computer systems, and that they are susceptible to specific regulations. Individuals, companies or groups, as well as cryptocurrency exchanges that control vast amounts of cryptocurrency can affect cryptocurrency's market prices. Furthermore, mining equipment production and mining pool locations may become centralized. The concerns or skepticism about the decentralized nature of Bitcoin may cause customers to lose confidence in the cryptocurrency industry's prospects. This in turn could adversely affect the market demand for our mining machines, the operation of our cryptocurrency exchanges and our business. Furthermore, the possibility that a person or a coordinated group of people may gain more than 50% control of the process power active on Bitcoin and be able to manipulate transactions, despite the intended decentralized structure, may also erode confidence in Bitcoin. Our business, prospects and results of operations therefore may adversely be affected by the divergent views on the decentralized nature of Bitcoin.

Change of Bitcoin algorithms and mining mechanisms may materially and adversely affect our business and results of operations

Our ASIC chips are designed for proof-of-work, or POW, mechanism, which the Bitcoin network uses to validate Bitcoin transactions. Many within the Bitcoin community believe that POW is a foundation within Bitcoin's code that would not be changed. However, there have been debates on mechanism change to avoid the "de facto control" by a great majority of the network computing power. With the possibility of a change in rule or protocol of the Bitcoin network, if our Bitcoin mining machines cannot be modified to accommodate any such changes, our mining machines will not be able to meet customer demand, and the results of our operations will be significantly affected. For more details, see "Item 3. Key Information—D. Risk Factors—Risks Relating to Our Cryptocurrency, Blockchain and Mining Related Businesses—The administrators of the Bitcoin network's source code could propose amendments to the Bitcoin network's protocols and software that, if accepted and authorized by the Bitcoin network's community, could adversely affect our business, results of operations and financial condition" and "Item 3. Key Information—D. Risk Factors—Risks Relating to Our Cryptocurrency, Blockchain and Mining Related Businesses—The acceptance of Bitcoin network software patches or upgrades by a significant, but not overwhelming, percentage of the users and miners in the Bitcoin network could result in a "fork" in the blockchain, resulting in the operation of two separate networks that cannot be merged. The existence of forked blockchains could erode user confidence in Bitcoin and could adversely impact our business, results of operations and financial condition."

We face risks associated with the expansion of our blockchain products business operations overseas and if we are unable to effectively manage such risks, our business growth and profitability may be negatively affected

We intend to grow our blockchain products business in part by expanding our sales network and operations internationally. Currently, we mainly rely on our production partners in South Korea and Taiwan, including Samsung and TSMC, for the fabrication, testing and packaging of our ASICs. Any significant deterioration in the cross-strait relationship may have a negative impact on the ability of our production partners in Taiwan to fulfill their contractual obligations and ship the ASICs to us, which could have a material and adverse effect on our business, financial condition and results of operations. Our expansion plans also include possibly establishing an assembly facility and offices for sales, research and development and other operations in the United States; and we are at an initial preparatory stage of establishing other cryptocurrency exchange platforms in Hong Kong and overseas. Any significant deterioration in the relationship between China and any of these countries and region may have a material and adverse effect on our proposed business operations in these jurisdictions. However, there are risks associated with such global expansion plans, including:

- high costs of investment to establish a presence in a new market and manage international operations;
- competition in unfamiliar markets;
- foreign currency exchange rate fluctuations;

- regulatory differences and difficulties in ensuring compliance with multi-national legal requirements and multi-national operations;
- changes in economic, legal, political or other local conditions in new markets;
- our limited customer base and limited sales and relationships with international customers;
- competitors in the overseas markets may be more dominant and have stronger ties with customers and greater financial and other resources;
- challenges in managing our international sales channels effectively;
- difficulties in and costs of exporting products overseas while complying with the different commercial, legal and regulatory requirements of the overseas markets in which we offer our products;
- difficulty in ensuring that our customers comply with the sanctions imposed by the Office of Foreign Assets Control, or OFAC, on various foreign states, organizations and individuals;
- inability to obtain, maintain or enforce intellectual property rights;
- inability to effectively enforce contractual or legal rights or intellectual property rights in certain jurisdictions under which we operate; and
- governmental policies favoring domestic companies in certain foreign markets or trade barriers including export requirements, tariffs, taxes and other restrictions and charges. In particular, a worldwide trend in favor of nationalism and protectionist trade policy and the ongoing trade dispute between the United States and China as well as other potential international trade disputes could cause turbulence in international markets. These government policies or trade barriers could increase the prices of our products and make us less competitive in such countries.

If we are unable to effectively manage such risks, we may encounter difficulties in our overseas expansion plans and our business, reputation, results of operations and financial condition may be impaired.

We plan to increase our export of mining machines to the United States and the European Union in the future, which may be subject to high tariff rates resulting from protectionism trade policies, and as a result, our future sales volumes, profitability and results of operations will be materially and adversely affected

Historically, only a small portion of our mining machines were exported to the United States. Going forward we plan to increase our export of mining machines to the U.S. market. However, the United States and China have recently been involved in controversy over trade barriers in China that have threatened a trade war between these two countries, and have implemented or proposed to implement tariffs on certain imported products. Although the United States had not announced any trade policies that may directly impact the export of our mining machines as of the date of this annual report, we cannot accurately predict whether any anti-dumping duties, tariffs or quota fees will be imposed on our mining machines by the United States in the future. Any export requirements, tariffs, taxes and other restrictions and charges imposed by the United States on our mining machines could significantly increase our customers' purchase costs of our mining machines and make our mining machines less competitive in the U.S. market. As a result, our future sales volumes, profitability and results of operations could be adversely affected.

In addition, we also intend to increase our export of mining machines to the European Union in the future. However, the worldwide populism trend that calls for protectionism trade policy and potential international trade disputes could cause turbulence in the international markets. These government policies or trade barriers could increase the prices of our mining machines and cause us to lose our sales and market share to our competitors in these countries.

Our blockchain customers rely on a steady and inexpensive power supply for operating mining farms and running mining hardware. Failure to access a large quantity of power at reasonable costs could significantly increase their operating expenses and adversely affect their demand for our mining machines

Many of our blockchain customers engage in the cryptocurrency mining business. Cryptocurrency mining consumes a significant amount of energy power to process the computations and cool down the mining hardware. Therefore, a steady and inexpensive power supply is critical to cryptocurrency mining. There can be no assurance that the operations of our blockchain customers will not be affected by power shortages or an increase in energy prices in the future. In particular, the power supply could be disrupted by natural disasters, such as floods, mudslides and earthquakes, or other similar events beyond the control of our customers. Further, certain of our customers may experience power shortages due to seasonal variations in the supply of certain types of power such as hydroelectricity. Power shortages, power outages or increased power prices could adversely affect mining farm businesses of our blockchain customers and reduce the expected market demand for our mining machines significantly. Under such circumstances, our business, results of operations and financial condition could be materially and adversely affected.

In addition, as we intend to establish and operate mining farms to provide hosting services for third parties and engage in proprietary Bitcoin and other cryptocurrency mining activities to mine cryptocurrencies for ourselves in the near future, any increase in energy prices or a shortage in power supply in locations where our future mining farms are located may increase our potential mining costs and reduce the expected economic returns from our proprietary mining operation significantly.

The average selling prices of certain products may decrease from time to time due to technological advancement and we may not be able to pass onto our suppliers such decreases, which may in turn adversely affect our profitability

The IC design industry is characterized by rapid launches of new products, continuous technological advancements and changing market trends and customer preferences, all of which translate to a shorter life cycle and a decrease in the average selling prices of products over time. For example, the average selling price per unit for our E12 Bitcoin mining machines decreased from US\$681 in 2020 to US\$482 in 2021, and the average selling price per TH/s decreased from US\$15 in 2020 to US\$11 in 2021. Because we compete in the environment of rapidly-evolving technology advancement and market trends and developments of the IC design industry, we cannot assume you that we will be able to pass on any decrease in average selling prices of our products to our suppliers. If the average selling prices of our products unusually or significantly decrease and such decreases cannot be offset by a corresponding decrease in the prices of the principal components of our products, our gross profit margins may be materially and adversely affected, which in turn, may adversely affect our profitability.

We may not be able to price our products at our desired margins as a result of any decrease in our bargaining power or changes in market conditions

We set prices for our mining machines and telecommunication products based on a number of internal and external factors, such as the cost of production, the technological contents of our products, market conditions, and competition we face. Our ability to set favorable prices at our desired margins and to accurately estimate costs, among other factors, has a significant impact on our profitability. We cannot assure you that we will be able to maintain our pricing or bargaining power or that our gross profit margin will not be driven down by market conditions or other factors. If we see higher pricing pressure due to intensified competition from other manufacturers as our competitors' products may be more technologically advanced or energy-efficient, decreases in prices to our customers in the end market or any other reasons, or if we otherwise lose bargaining power due to weaker demand for our products, we may need to reduce the prices and lower the margins of our products and we may even be unable to continue to market our products at all. Moreover, we may not be able to accurately estimate our costs or pass on all or part of any increase in our costs of production, in particular the costs of raw materials, components and

Shortages in, or rises in the prices of, the components of our mining machines may adversely affect our business

Given the long production period to manufacture, assemble, and deliver certain components and products, problems could arise in planning production and managing inventory levels that could seriously interrupt our operations, including the possibility of defective parts, an increase in component costs, delays in delivery schedules, and shortages of components. In addition to ASIC chips, the components we use for our mining machines include printed circuit boards, or PCBs, other electronic components, fans, and aluminum casings. The production of our mining machines also requires certain ancillary equipment and components such as controllers, power adaptors, and connectors. The production of our current products depends on obtaining adequate supplies of these components on a timely basis and at competitive prices. We do not typically maintain large inventory of the components, and rather purchase them on an “as-needed” basis from various third-party component manufacturers that satisfy our quality standards and meet our production requirements. We may have to turn to less reputable suppliers if we cannot source adequate components from our regular suppliers. Under such circumstances, the quality of the components may suffer and could cause performance issues in our mining machines.

Shortages of components could result in reduced production or delays in production, as well as an increase in production costs, which may negatively affect our ability to fulfill orders or make timely shipments to blockchain customers, as well as our customer relationships and profitability. Component shortages may also increase our costs of goods sold because we may be required to pay higher prices for components in short supply, or redesign or reconfigure products to accommodate for the substitute components, without being able to pass such cost to our blockchain customers. As a result, our business, results of operations and reputation could be materially and adversely affected by any product defects.

Cryptocurrency exchanges and wallets, and to a lesser extent, a cryptocurrency blockchain itself, may suffer from hacking and fraud risks, which may adversely erode user confidence in cryptocurrencies, and adversely impact our brand and reputation and our business, operating results, and financial condition

Cryptocurrency transactions are entirely digital and, as with any virtual system, face risk from hackers, malware and operational glitches. For example, hackers can target cryptocurrency exchanges, wallets, and custodians to gain unauthorized access to the private keys associated with the wallet addresses where cryptocurrencies are stored. Cryptocurrency transactions and accounts are not insured by any type of government program and cryptocurrency transactions generally are permanent by design of the networks. Certain features of cryptocurrency networks, such as decentralization, the open source protocols, and the reliance on peer-to-peer connectivity, may increase the risk of fraud or cyber-attack by potentially reducing the likelihood of a coordinated response. Cryptocurrencies have suffered from hacking risks and several cryptocurrency exchanges and miners have reported cryptocurrency losses, which highlight concerns over the security of cryptocurrencies and in turn affect the demand and the market price of cryptocurrencies. In addition, while cryptocurrencies use private key encryption to verify owners and register transactions, fraudsters and scammers may attempt to sell false cryptocurrencies. The techniques used to obtain unauthorized, improper, or illegal access to systems and information (including customers’ personal data and cryptocurrency assets), disable or degrade services, or sabotage systems are constantly evolving, may be difficult to detect quickly, and often are not recognized or detected until after they have been launched against a target. Additionally, certain threats are designed to remain dormant or undetectable until launched against a target and we may not be able to implement adequate preventative measures. These risks may adversely affect the operation of the cryptocurrency network which would erode user confidence in cryptocurrencies, or in the use of technology to conduct financial transactions, which could negatively impact us, including the market perception of the effectiveness of our security measures and technology infrastructure in our cryptocurrency exchange platforms and the demand for our mining machines.

In particular, our cryptocurrency exchange business involves the collection, storage, processing, and transmission of confidential information, customer, employee, service provider, and other personal data, as well as information required to access customer assets. We have built our reputation on the premise that our platforms offer customers a secure way to purchase, store, and transact in cryptocurrency assets. As a result, any actual or perceived security breach of our cryptocurrency exchange platforms or our third-party partners may:

- harm our reputation and brand;
- result in our systems or services being unavailable and interrupt our operations;
- result in improper disclosure of data and violations of applicable privacy and data protection laws;
- result in significant regulatory scrutiny, investigations, fines, penalties, and other legal, regulatory, and financial exposure;

- cause us to incur significant remediation costs;
- lead to theft or irretrievable loss of our or our customers' fiat currencies or cryptocurrency assets;
- reduce 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 or third parties as a result of losses to them or claims by them; and
- adversely affect our business and operating results.

Although we have developed systems and processes designed to protect the data we manage, prevent data loss and other security breaches, effectively respond to known and potential risks, and 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 prevent breaches or attacks. As of the date of this annual report, we have not experienced breaches of our security measures, however, we may experience in the future, breaches of our security measures due to human error, malfeasance, insider threats, system errors, vulnerabilities, or other irregularities. Certain types of cyberattacks could harm us even if our systems are left undisturbed. Unauthorized parties may attempt, to gain access to our systems and facilities, as well as those of our customers, partners, and third-party service providers, through various means, including hacking, social engineering, phishing, and attempting to fraudulently induce individuals (including employees, service providers, and our customers) into disclosing usernames, passwords, payment card information, or other sensitive information, which may in turn be used to access our information technology systems and customers' cryptocurrency assets. Threats can come from a variety of sources, including criminal hackers, hacktivists, state-sponsored intrusions, industrial espionage, and insiders. Certain threat actors may be supported by significant financial and technological resources, making them even more sophisticated and difficult to detect. We may also acquire other companies that expose us to unexpected security risks or increase costs to improve the security posture of the acquired company. Further, there has been an increase in such activities as a result of the COVID-19 pandemic. As a result, our costs and the resources we devote to protecting against these advanced threats and their consequences may continue to increase over time.

From time to time, we may encounter technical issues in connection with the integration of supported cryptocurrency assets and changes and upgrades to their underlying networks, which could adversely affect our business

In order to support any supported cryptocurrency assets, a variety of front and back-end technical and development work is required to implement our wallet, custody, trading, staking and other solutions for our customers, and to integrate such supported cryptocurrency assets with our existing technical infrastructure. For certain cryptocurrency 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 cryptocurrency assets. In addition, such integration may introduce software errors or weaknesses into our platforms, including our existing infrastructure. Even if such integration is initially successful, any number of technical changes, software upgrades, soft or hard forks, cybersecurity incidents, or other changes to the underlying blockchain network may occur from time to time, causing incompatibility, technical issues, disruptions, or security weaknesses to our platforms. If we are unable to identify, troubleshoot and resolve any such issues successfully, we may no longer be able to support such cryptocurrency assets, our customers' assets may be frozen or lost, the security of our hot, warm, or cold wallets may be compromised, and our platforms and technical infrastructure may be affected, all of which could adversely impact our business.

Failure to comply with anti-corruption and anti-money laundering laws, including the Foreign Corrupt Practices Act (the "FCPA") and similar laws associated with our activities outside of the United States, could subject us to penalties and other adverse consequences

We operate an international business and may have direct or indirect interactions with officials and employees of government agencies or state-owned or affiliated entities. We are subject to the FCPA, and other applicable anti-corruption and anti-money laundering laws in certain countries in which we conduct activities. The FCPA prohibits providing, offering, promising, or authorizing, directly or indirectly, anything of value to government officials, political parties, or political candidates for the purpose of obtaining or retaining business or securing any improper business advantage. In addition, U.S. public companies are required to maintain records that accurately and fairly represent their transactions and have an adequate system of internal accounting controls.

In many foreign countries, including countries in which we may conduct business, it may be a local custom that businesses engage in practices that are prohibited by the FCPA, or other applicable laws and regulations. We face significant risks if we or any of our directors, officers, employees, contractors, agents or other partners or representatives fail to comply with these laws and governmental authorities in the United States and elsewhere could seek to impose substantial civil and/or criminal fines and penalties which could have a material adverse effect on our business, reputation, operating results, prospects and financial condition.

Any violation of the FCPA, other applicable anti-corruption laws, or anti-money laundering laws could result in whistleblower complaints, adverse media coverage, investigations, loss of export privileges, severe criminal or civil sanctions and, in the case of the FCPA, suspension or debarment from U.S. government contracts, any of which could have a materially adverse effect on our reputation, business, operating results, prospects and financial condition. In addition, responding to any enforcement action or internal investigation related to alleged misconduct may result in a significant diversion of management's attention and resources and significant defense costs and other professional fees.

There is a lack of liquid markets for cryptocurrencies, and blockchain/Bitcoin-based assets are susceptible to potential manipulation

Cryptocurrencies that are represented and trade on a ledger-based platform may not necessarily benefit from viable trading markets. Stock exchanges have listing requirements and vet issuers, requiring them to be subjected to rigorous listing standards and rules; and monitor investors transacting on such platform for fraud and other improprieties. These conditions may not necessarily be replicated on a distributed ledger platform, depending on the platform's controls and other policies. The laxer a distributed ledger platform is about vetting issuers of cryptocurrency assets or users that transact on the platform, the higher the potential risk for fraud or the manipulation of the ledger due to a control event. These factors may decrease liquidity or volume or may otherwise increase volatility of investment securities or other assets trading on a ledger-based system, which may adversely affect us. Such circumstances could have a material adverse effect on our ability to continue as a going concern or to pursue our business strategy at all, which could have a material adverse effect on our business, prospects or operations and potentially the value of any Bitcoin or other cryptocurrencies we acquire or hold for our own account and harm investors.

Cryptocurrencies face significant scaling obstacles that can lead to high fees or slowed transaction settlement times, and attempts to increase the transaction processing capacity may not be effective

Many cryptocurrency networks face significant scaling challenges. A number of solutions have been promoted recently to resolve this problem, including segregated witness, Lightning Network and the introduction of Bitcoin Cash. However, there is no assurance that the cryptocurrencies community will accept these solutions or these solutions will effectively resolve these problems.

As the use of cryptocurrency networks increases without a corresponding increase in throughput of the networks, average fees and settlement times can increase significantly. Bitcoin's network, for example, has been, at times, at capacity, which has led to very high transaction fees. Increased fees and decreased settlement speeds could preclude certain use cases for Bitcoins (e.g., micropayments), and can reduce demand for and the market price of Bitcoins, which could adversely affect the market demand for our mining machines. There is no guarantee that any of the mechanisms in place or being explored for increasing the scale of settlement of Bitcoin transactions will be effective, or how long they will take to become effective, which could adversely affect the market demand for our mining machines.

The administrators of the Bitcoin network's source code could propose amendments to the Bitcoin network's protocols and software that, if accepted and authorized by the Bitcoin network's community, could adversely affect our business, results of operations and financial condition

The Bitcoin network is based on a cryptographic, algorithmic protocol that governs the end-user-to-end-user interactions between computers connected to the Bitcoin network. A loosely organized group can propose amendments to the Bitcoin network's source code through one or more software upgrades that alter the protocols and software that govern the Bitcoin network and the properties of Bitcoins, including the irreversibility of transactions and limitations on the mining of new Bitcoins. To the extent that a significant majority of the users and miners on the Bitcoin network install such software upgrade(s), the Bitcoin network would be subject to new protocols and software that may render our mining machines less desirable, which in turn may adversely affect our business, results of operations and financial condition. If less than a significant majority of the users and miners on the Bitcoin network install such software upgrade(s), the Bitcoin network could "fork."

The acceptance of Bitcoin network software patches or upgrades by a significant, but not overwhelming, percentage of the users and miners in the Bitcoin network could result in a "fork" in the blockchain, resulting in the operation of two separate networks that cannot be merged. The existence of forked blockchains could erode user confidence in Bitcoin and could adversely impact our business, results of operations and financial condition

Bitcoin is based on open source software and has no official developer or group of developers that formally controls the Bitcoin network. Any individual can download the Bitcoin network software and make any desired modifications, which are proposed to users and miners on the Bitcoin network through software downloads and upgrades. However, miners and users must consent to those software modifications by downloading the altered software or upgrade implementing the changes; otherwise, the changes do not become part of the Bitcoin network. Since the Bitcoin network's inception, changes to the Bitcoin network have been accepted by the vast majority of users and miners, ensuring that the Bitcoin network remains a coherent economic system. However, a developer or group of developers could potentially propose a modification to the Bitcoin network that is not accepted by a vast majority of miners and users, but that is nonetheless accepted by a substantial population of participants in the Bitcoin network. In such a case, a fork in the blockchain could develop and two separate Bitcoin networks could result, one running the pre-modification software program and the other running the modified version. An example is the introduction of Bitcoin Cash in mid-2017. This kind of split in the Bitcoin network could erode user confidence in the stability of the Bitcoin network, which could negatively affect the demand for our mining machines.

Our Bitcoin mining machines use open source software and hardware as their basic controller system, which may subject us to certain risks

We use open source software and hardware in our Bitcoin mining machines. For example, our mining machine controller open source software needs to be installed on open source, which serves as the basic controller system for our mining machines, and we expect to continue to use open source software and hardware in the future. We may face claims from others claiming ownership of, or seeking to enforce the terms of, an open source license, including by demanding the release of the open source software, derivative works or our proprietary source code that was developed using such software. These claims could also result in litigation, requiring us to purchase a costly license or to devote additional research and development resources to change our technologies, either of which would have a negative effect on our business and operating results. In addition, if the license terms for the open source software we utilize change, we may be forced to re-engineer or discontinue our solutions or incur additional costs.

Bitcoin mining activities are energy-intensive, which may restrict the geographic locations of miners

Bitcoin mining activities are inherently energy-intensive and electricity costs account for a significant portion of the overall mining costs. The availability and cost of electricity will restrict the geographic locations of mining activities. Any shortage of electricity supply or increase in electricity cost in a jurisdiction may negatively impact the viability and the expected economic return for Bitcoin mining activities in that jurisdiction, which may in turn decrease the sales of our Bitcoin mining machines in that jurisdiction.

Because there has been limited precedent set for financial accounting of Bitcoin and other Bitcoin assets, the determination that we have made for how to account for Bitcoin assets transactions may be subject to change

Because there has been limited precedent set for the financial accounting of cryptocurrencies and related revenue recognition and no official guidance has yet been provided by the Financial Accounting Standards Board, the PCAOB or the SEC, it is unclear how companies may in the future be required to account for Bitcoin transactions and assets and related revenue recognition. A change in regulatory or financial accounting standards could result in the necessity to change our accounting methods and restate our financial statements. Such a restatement could negatively impact our business, prospects, financial condition and results of operation. Such circumstances would also have a material adverse effect on our ability to continue as a going concern or to pursue our business strategy at all, which would potentially have a material adverse effect on the value of any cryptocurrencies we hold or expect to acquire for our own account and harm investors.

Other Risks Relating to Our Business Operations

The global coronavirus COVID-19 outbreak has caused significant disruptions in our business, which we expect may continue to materially and adversely affect our results of operations and financial condition

The outbreak of COVID-19 has spread throughout the world. On March 11, 2020, the World Health Organization declared the outbreak a global pandemic. There has been and continues to be widespread infection in the United States with a second wave now appearing in China and elsewhere, with the potential for catastrophic impact. Mandatory business closures have had catastrophic impacts on worldwide economies of uncertain duration. This global outbreak has also caused market panics, which materially and negatively affected the global financial markets, such as the plunge of global stocks on major stock exchanges in March 2020. Such disruption and the potential slowdown of the world's economy in 2020 and beyond could have a material adverse effect on our results of operations and financial condition. We and our customers experienced and may continue to experience significant business disruptions and suspension of operations due to quarantine measures to contain the spread of the pandemic, which have caused and may continue to cause shortages in the supply of raw materials, reduction in our production capacity, increase in the likelihood of default from our customers and product delivery delays. The pandemic has also led to great volatility in the Bitcoin price, which has adversely affected and may continue to negatively affect the demand for our mining machines both in terms of the price and the quantity.

Our business operation was also disrupted, and may continue to be disrupted, if any of our employees are suspected of having contracted any contagious disease or condition, since it could require our employees to be quarantined, self-isolated or our offices and production to be closed down and disinfected. We have taken a series of measures in response to the outbreak to protect our employees, including, among others, temporary closure of some offices, remote working arrangements for our employees and travel restrictions or suspension. All of these had, and may continue to, have a material adverse effect on our results of operations and financial condition in the near term.

Our third-party manufacturers, suppliers, sub-contractors and customers have been and will continue to be disrupted by worker absenteeism, quarantines, restrictions on employees' ability to work, office and factory closures, disruptions to ports and other shipping infrastructure, border closures, or other travel or health-related restrictions. Depending on the magnitude of such effects on our supply chain, shipments of parts from our manufacturers and suppliers, have been and may continue to be delayed. Supply chain disruptions could therefore negatively impact our operations.

The effectiveness of the COVID-19 vaccine and vaccination programs remains to be verified worldwide, including against variants of the virus. The sweeping nature of the COVID-19 pandemic makes it extremely difficult to predict how the company's business and operations will be affected in the longer run. So far, the likely overall economic impact of the pandemic is widely viewed as highly negative to the global economy.

We are closely monitoring the development of the COVID-19 pandemic and continuously evaluating any further potential impact on our business, results of operations and financial condition, which we believe will depend on the duration and degree of the pandemic. If the outbreak persists or escalates, we may be subject to further negative impact on our business operations and financial condition.

High customer concentration exposes us to all of the risks faced by our major customers and may subject us to significant fluctuations or declines in revenues

Our customers include both enterprises and individuals. A limited number of our major customers, however, have contributed a significant portion of our revenues in the past. Our revenue from the top three largest customers accounted for approximately 34%, 50% and 50% of our total revenues in 2019, 2020 and 2021, respectively. Our revenue from the top ten largest customers accounted for approximately 58%, 91% and 81% of our total revenues in 2019, 2020 and 2021. Although we continually seek to diversify our customer base, we cannot assure you that the proportion of the revenue contribution from these customers to our total revenues will decrease in the near future. We offer credit sales to our major, long-term customers. Dependence on a limited number of major customers will expose us to the risks of substantial losses and may increase our account receivables and extend its turn over days if any of them reduces or even ceases business collaborations with us. Specifically, any one of the following events, among others, may cause material fluctuations or declines in our revenues and have a material and adverse effect on our business, financial condition, results of operations and prospects:

- an overall decline in the business of one or more of our significant customers;
- the decision by one or more of our significant customers to switch to our competitors;
- the reduction in the prices of our mining machines agreed by one or more of our significant customers; or
- the failure or inability of any of our significant customers to make timely payment for our services.

If we fail to maintain relationships with these major customers, and if we are unable to find replacement customers on commercially desirable terms or in a timely manner or at all, our business, financial condition, results of operations and prospects may be materially and adversely affected.

We have been involved, and may continue to be involved, in disputes, claims or proceedings arising from our operations or class actions from time to time, which could result in significant liabilities and reputational harm and could materially and adversely affect our business, financial condition and results of operations

We have been, and in the future may continue to be, involved in disputes, claims or proceedings arising out of our operations. For example, we are currently involved in several ongoing civil actions in relation to our sales of mining machines, among others, to a customer and our procurement of ASIC wafers from a supplier. See “Item 4. Information on the Company—B. Business Overview —Legal Proceedings.” In addition, we may have disagreements with regulatory bodies in the course of our operations, which may subject us to administrative proceedings and unfavorable orders, directives or decrees that may result in financial losses. Ongoing disputes, claims or proceedings may divert our management’s attention and consume their time and our other resources.

In the past, shareholders of public companies have often brought securities class action suits against an issuer following periods of instability in the market price of an issuer’s securities, or after the publication of third-party research reports. In April 2021, a negative research report was published about us by Hindenburg Research (the “Hindenburg Report”). Subsequently in April and July of 2021, two securities class action lawsuits were filed against us and our Chief Executive Officer and Chief Financial Officer in the U.S. District Courts, of which complaints relied extensively on the Hindenburg Report. Both class actions were voluntarily dismissed by the plaintiffs in July and October 2021, respectively. As of the date of this annual report, we are not aware of any other lawsuits threatened or filed against us based on the Hindenburg Report or any alleged violation of securities laws. We cannot assure you that there would not be any future claims against us or that we would successfully defend against them. Any such suit, whether or not successful, could harm our reputation, result in share price volatility and a loss of customers, and restrict our ability to raise capital in the future. Even if claims do not result in litigation or are resolved in our favor, these claims, and the time and resources necessary to resolve them, could divert the resources of our management and require significant expenditures, which could prevent us from competing effectively and could have an adverse effect on our business, operating results, and financial condition. In addition, if a claim is successfully made against us, we may be required to pay significant damages, which could have a material adverse effect on our financial condition and results of operations. Furthermore, any disputes, claims or proceedings which are initially not of material importance may escalate and become important to us, due to a variety of factors, such as the facts and circumstances of the cases, the likelihood of loss, the monetary amount at stake and the parties involved. As of the date of this annual report, we are not able to quantify the likelihood or amount of exposure from any of these potential actions.

Negative publicity arising from disputes, claims or proceedings may damage our reputation and adversely affect the image of our brands and products. In addition, if any verdict or award is rendered against us, we could be required to pay significant monetary damages, assume other liabilities and even to suspend or terminate the related business ventures or projects. Consequently, our business, results of operations and financial condition may be materially and adversely affected.

We are exposed to credit risks and concentration of credit risks in relation to defaults from counterparties

There are credit risks associated with our business. In particular, a drop in the Bitcoin price may also result in lower economic returns for mining activities of our blockchain customers and adversely affect their businesses and financial conditions, which may further affect their credit profiles and their ability to settle our accounts receivables. Although we generally require our blockchain customers to make full payment for our mining machines before delivery of products, in 2018 we began offering credit sales to customers in China. As of December 31, 2019, 2020 and 2021, our net accounts receivable was US\$8.1 million and US\$7.2 million and US\$9.9 million, respectively, and we recorded allowance for doubtful accounts of US\$1.8 million, US\$4.8 million and US\$4.6 million as of the same dates.

In addition, we also face concentration of credit risks associated with our business. Our exposure to credit risk is influenced mainly by the individual characteristics of each customer as well as the industry or country in which the customers operate and is concentrated on a few customers. As of December 31, 2019, 2020 and 2021, 15%, 24% and 13% of our total accounts receivables were due from one of our customers, respectively, and approximately 42%, 53% and 37% of our accounts receivables were attributable to three of our customers, respectively.

Although we monitor our exposure to credit risk on an ongoing basis and make periodic judgment on impairment of overdue receivables based on the likelihood of collectability, we cannot assure you that all of our counterparties are creditworthy and reputable and will not default on payments in the future. If we encounter significant delays or defaults in payment by our customers or are otherwise unable to recover our accounts receivables, our cash flow, liquidity and financial condition may be materially and adversely affected.

The businesses that we are pursuing through certain of our subsidiaries' initiatives are novel and subject to technical, operational, financial, regulatory, legal, reputational and marketing risks and we cannot assure you that such acquisitions or strategic alliances may be successfully implemented

We have and may continue to acquire interests in various businesses, including financial technology companies, broker-dealers, and digital currency transfer and payment businesses. We have limited experience with the operation of such businesses. In some countries the licensing requirements and regulations expressly cover companies engaged in digital currency activities; in others it is not clear whether or how the existing laws and regulations apply to digital currency activities. Licenses and registrations that we may be required to obtain may subject us to various anti-money laundering, know-your-customer, record-keeping, reporting and capital and bonding requirements, limitations on the investment of customer funds, and inspection by regulatory agencies. These are areas in which we do not have substantial experience and which are subject to the risks of new and novel businesses, including technical, operational, financial, regulatory, legal and reputational risks, as well as the risk that we may be unable to market, license or sell our technology successfully or profitably. The occurrence of any such risks, any such penalties, or even allegations of criminal or civil misconduct, could have a material adverse effect on us and on our financial results and business.

We may look for other potential acquisitions or strategic alliances in the future to expand our business. However, we may not be able to find suitable acquisition candidates, complete acquisitions on favorable terms, if at all, or integrate any acquired business, products or technologies into our operations. If we do complete acquisitions, they may be viewed negatively by customers or investors and they may not enable us to strengthen our competitive position or achieve our goals. In addition, any acquisitions that we make could lead to difficulties in integrating personnel, technologies and operations from the acquired businesses and in retaining and motivating key personnel from these businesses. Moreover, acquisitions may disrupt our ongoing operations, divert management from day-to-day responsibilities and increase our expenses. Future acquisitions may reduce our cash available for operations and other uses, and could result in increases in amortization expenses related to identifiable intangible assets acquired, potentially dilutive issuances of equity securities or the incurrence of debt. We cannot predict the number, timing or size of future acquisitions, or the effect that any such acquisitions might have on our operating results.

Our prepayments to suppliers may subject us to counterparty risk associated with such suppliers and negatively affect our liquidity

We are required to prepay some of our suppliers before the service is provided to secure the supplier's production capacity. As of December 31, 2019, 2020 and 2021, the outstanding balance of prepayments we made to our third-party foundry partners amounted to US\$1.1 million, US\$0.2 million, and US\$1.1 million, respectively. The amount of our prepayments may significantly increase as we continue to pursue technological advancement. We are subject to counterparty risk exposure to our suppliers. Any failure by our suppliers to perform their contract obligations on a timely manner and/or with our requested quality may result in us not being able to fulfill customers' orders accordingly. In such event, we may not be able to regain the prepayment in a timely manner or in full, even though our suppliers are obligated to return such prepayments under specified circumstances as previously agreed upon. Furthermore, if the cash outflows for the prepayments significantly exceed the cash inflows during any period, our future liquidity position will be adversely affected.

If we experience difficulty in collecting our trade receivables, our liquidity, financial condition and results of operations would be negatively impacted.

We derive our revenues from the sale of products and are subject to counterparty risks such as our customer's inability to pay. As of December 31, 2019, 2020 and 2021, our trade receivables amounted to US\$8.1 million, US\$7.2 million, and US\$9.9 million, respectively. There can be no assurance that we will be able to collect our trade receivables on a timely basis, and our trade receivable turnover days may increase, which in turn could materially and adversely affect our liquidity, financial condition and results of operations.

If we fail to maintain appropriate inventory levels in line with the approximate level of demand for our products, we could lose sales or face excessive inventory risks and holding costs

To operate our business successfully and meet our customers' demands and expectations, we must maintain a certain level of finished goods inventory to ensure immediate delivery when required. We are also required to maintain an appropriate level of raw materials for our production. However, forecasts are inherently uncertain. If our forecasted demand is lower than what eventually transpires, we may not be able to maintain an adequate inventory level of our finished goods or produce our products in a timely manner, and we may lose sales and market share to our competitors. On the other hand, we may also be exposed to increased inventory risks due to accumulated excess inventory of our products or raw materials, parts and components for our products. Excess inventory levels may lead to increases in inventory holding costs, risks of inventory obsolescence and provisions for write-downs, which will materially and adversely affect our business, financial condition and results of operations.

In order to maintain an appropriate inventory level of finished goods and raw materials to meet market demand, we adjust our procurement amount and production schedule from time to time based on customers' orders and anticipated demand. We also carry out an inventory review and an aging analysis on a regular basis. We make provision for obsolete and slow-moving inventory of raw materials and finished goods that are no longer suitable for use in production or sale. However, we cannot guarantee that these measures will always be effective and that we will be able to maintain an appropriate inventory level. We may also be exposed to the risk of holding excessive inventory, including older generation mining machines that are less marketable as well as older ASIC chips which may increase our inventory holding costs and subject us to the risk of inventory obsolescence or write-offs, which could have a material adverse effect on our business, results of operations and financial condition. For example, we recorded write-down for the potentially obsolete, slow-moving inventory and lower of cost or market adjustment of US\$6.3 million, US\$3.6 million and US\$2.2 million in 2019, 2020 and 2021, respectively. If we cannot maintain an appropriate inventory level, we may lose sales and market share to our competitors.

We require various approvals, licenses, permits and certifications to operate our business. If we fail to obtain or renew any of these approvals, licenses, permits or certifications, it could materially and adversely affect our business and results of operations

In accordance with the laws and regulations in the jurisdictions in which we operate, we are required to maintain various approvals, licenses, permits and certifications in order to operate our business or engage in the business we plan to enter into. Complying with such laws and regulations may require substantial expenses, any non-compliance may expose us to liability. In the event of that government authorities consider us to be in non-compliance, we may have to incur significant expenses and divert substantial management time to rectify the incidents. If we fail to obtain all the necessary approvals, licenses, permits and certifications, we may be subject to fines, sanctions, revocation of licenses or permits to operate our business, or the suspension of operations of the facilities that do not have the requisite approvals, licenses, permits or certifications, which would adversely affect our reputation, business and results of operations. See "Regulation" for further details on the requisite approvals license permits and certifications.

We have previously made sales to Iran, which is subject to sanctions, and our interactions with a blockchain may expose us to SDN and other regulations administered by the United States

Iran is subject to a comprehensive sanctions program administered by the Office of Foreign Assets Control, or OFAC, and shipments of products subject to the Export Administration Regulations promulgated by the Bureau of Industry and Security, or BIS, in the Commerce Department are also subject to restrictions. In 2016 and 2017, we engaged in transactions that included the sale and/or delivery of our products to Iran under circumstances that may involve breaches of U.S. sanctions and export control laws. On August 2, 2018, we disclosed these transactions to both OFAC and BIS by our submission of Voluntary Self Disclosures, or VSDs. On January 25, 2019, BIS closed the VSD with a Warning Letter and no penalty. On March 4, 2019, OFAC closed the VSD with a Cautionary Letter and no penalty.

OFAC requires us to not conduct business with persons named on its specially designated nationals (“SDN”) list. However, because of the pseudonymous nature of blockchain transactions we may inadvertently and without our knowledge engage in transactions with persons named on OFAC’s SDN list or from countries on OFAC’s sanctioned countries’ list. While we have implemented internal control measures to mitigate our risk exposure to international sanctions, sanctions laws and regulations are constantly evolving, new persons and entities are regularly added to the list of SDN list, and we may not be adequately capable of determining the ultimate identity of the individual with whom we transact with respect to selling cryptocurrency assets. Further, new requirements or restrictions could come into effect which might increase the scrutiny on our business or result in one or more of our business activities being deemed to have violated sanctions. To the extent government enforcement authorities enforce these and other laws and regulations that are impacted by decentralized distributed ledger technology, or if they were to determine that any of our future activities constitutes a violation of the sanctions they impose or provides a basis for a sanctions designation of us, we may be subject to investigation, administrative or court proceedings, and civil or criminal monetary fines and penalties, all of which could harm our reputation and affect the value of our ordinary shares.

We had historically experienced a decrease in our telecommunications business and if we are unable to continue to operate our telecommunications business successfully, we may suspend or cease our telecommunication business entirely

Revenues from our telecommunications business were US\$3.3 million, US\$1.6 million and US\$8.6 million for the years ended December 31, 2019, 2020 and 2021, respectively. In December 2020, we sold all our equity ownership in Hangzhou Yiquansheng Communication Technology Co., Ltd., which provided technology services in the telecommunication sector and had incurred losses since its incorporation, to an affiliate controlled by Mr. Dong Hu, our chairman of the board of directors and Chief Executive Officer. Our telecommunications business will likely continue to be driven by the development of the communications industry in China, government policies, technological changes, user preference, and many other factors beyond our control. There is no guarantee that we will be able to maintain the competitiveness of our products or continue to operate our telecommunications business successfully as a key source of revenue. If we fail to grow our telecommunications business organically, we may suspend or cease such business line entirely.

Any disruption in our business relationship with our major telecommunications products customers as a result of market consolidation or otherwise will adversely affect our sales and market share in the telecommunications market

The telecommunications industry has experienced and may continue to experience significant consolidation. The merger and expansion of participants will enable them to maximize their economies of scale to provide more competitive prices and invest a larger amount of resources into research and development. Our telecommunication products are primarily sold to major telecommunications service providers and institutional customers in China. Consolidation of our customers may mean that we could lose out in price and non-price competition and lead to a significant reduction of market share. As a result, our business and results of operations in the telecommunications market could be materially and adversely affected.

We typically engage third-party agents to manage certain aspects of our business dealings with telecommunications products customers, and our business relationship with them may be adversely affected by any actual or perceived misconduct of our agents, over whom we have limited control. For example, in 2018, a local court in China convicted an employee of a major telecommunications products customer for taking bribes from a group of business partners, including our agents, and as a result, we have been blacklisted by such customer until the end of 2020. Although we are no longer blacklisted by such customer due to lapse of time, any future disruption of our business relationship with major telecommunications products customers could materially and adversely affect our business and results of operations.

The telecommunications industry is subject to extensive and evolving laws and regulations

We may be directly or indirectly affected by changes in government regulations relating to the telecommunications and broadcast industries in the PRC or the U.S. Failure to comply with the relevant laws and regulations could subject us to severe penalties, which could have a significant impact on our cash flow. Moreover, the change of laws and regulations may render our current products illegal and require us to invest additional resources into the research and development of new products in compliance with the laws. As a result, our business and results of operations may be adversely affected. For example, in January 2021 the New York Stock Exchange LLC, or NYSE announced to delist three Chinese telecommunication companies based on guidance that the U.S. Department of Treasury's Office of Foreign Assets Control provided to the NYSE. We are uncertain whether such actions will have further impact on our business or the Chinese telecommunication industry in general.

Our customers are also subject to laws and regulations applicable to the telecommunications and broadcast industries in the PRC. As they change their products to adapt to any change of telecommunications and broadcast laws, this may also require us to modify our products to fit their new products. Such modified or newly adopted laws and regulations could, directly or indirectly, affect the pricing, distribution and required standards of our telecommunications products and services and may have a material adverse impact on our business.

If we fail to maintain an effective quality control system, our business could be materially and adversely affected

We place great emphasis on product quality and adhere to stringent quality control measures and have obtained quality control certifications for our products. To meet our customers' requirements and expectations for the quality and safety of our products, we have adopted a stringent quality control system to ensure that every step of the production process is strictly monitored and managed. Failure to maintain an effective quality control system or to obtain or renew our quality standards certifications may result in a decrease in demand for our products or cancellation or loss of purchase orders from our customers. Moreover, our reputation could be impaired. As a result, our business and results of operations could be materially and adversely affected.

The quality of our products and services relies on third party suppliers and service providers we engage. If we fail to provide satisfactory services or maintain their service levels, it could materially and adversely affect our business, reputation, financial condition and results of operations

We rely on third-party suppliers and service providers to provide quality products and services to customers, and our brand and reputation may be harmed by actions taken by them that are beyond our control. Despite the measures we have taken to ensure the quality of products and services provided by third-party suppliers and service providers, to the extent that there are manufacturing defects beyond our control, or our third-party suppliers and service providers are unable to maintain the efficiency of their production facilities, supply sufficient components or raw materials in a timely manner, or provide satisfactory services to our customers, we may suffer reputational damage, and our brand image, business and results of operations may be materially and adversely affected.

Our production facilities may be unable to maintain efficiency, encounter problems in ramping up production or otherwise have difficulty meeting our production requirements

Our future growth will depend upon our ability to maintain efficient operations at our existing production facilities and our ability to expand our production capacity as needed. The average utilization rate of our SMT production lines was 81.7%, 40.1%, 34.7% for 2019, 2020 and 2021, respectively. The utilization rate of our production facilities depends primarily on the demand for our products and the availability and maintenance of our equipment but may also be affected by other factors, such as the availability of employees, a stable supply of electricity, seasonal factors and changes in environmental laws and regulations. In order to meet our customers' demands and advancements in technology, we maintain and upgrade our equipment periodically. The pandemic in 2021 continued to negatively affect our production facilities and the utilization rate of our production facilities in 2021. If the pandemic continues or we are unable to maintain our production facilities' efficiency, we may be unable to fulfill our purchase orders in a timely manner, or at all. This would negatively impact our reputation, business and results of operations.

As we continue to grow and expand our business, we expect to acquire additional production lines and possibly a new production facility to increase our production capacity. If we are unable to acquire the necessary equipment or production facility at an acceptable price, or at all, we may not be successful in achieving our business expansion plans.

We have not obtained the construction works commencement permit and the real property ownership certificate for our production facility in Wuhai, and as a result, our production activities, business, results of operations and prospects may be materially and adversely affected if we are required to rectify this incident

To construct a production facility, we must obtain permits, licenses, certificates and other approvals from the relevant administrative authorities at various stages of land acquisition and construction. Obtaining such approvals may require substantial expense, and any non-compliance may expose us to liability.

As of the date of this annual report, we have not obtained the construction works commencement permit for the construction work carried out in our production facility in Wuhai, and as a result, we had not obtained the real property ownership certificate for this production facility. As advised by our PRC legal advisors, we may be required by relevant PRC government authority to rectify this incident or may be subject to monetary penalties, which may disrupt our schedule of development and production activities to be carried out on this production facility. Although we do not expect any material obstacle in obtaining the real property ownership certificate for this production facility and the relevant governmental authority permits us to carry out production activities during the period of application for real property ownership certificate, we cannot assure you that we will be able to obtain such certificate as soon as we expected or that we will not be required to suspend production in the future.

We rely on third-party logistics service providers to deliver our products. Disruption in logistics may prevent us from meeting customer demand and our business, results of operations and financial condition may suffer as a result

We engage third-party logistics service providers to deliver the ICs from our production partners to our assembly plant and our products from our warehouses to our customers. Disputes with or termination of our contractual relationships with one or more of our logistics service providers could result in delayed delivery of products or increased costs. There can be no assurance that we can continue or extend relationships with our current logistics service providers on terms acceptable to us, or that we will be able to establish relationships with new logistics service providers to ensure accurate, timely and cost-efficient delivery services. If we are unable to maintain or develop good relationships with our preferred logistics service providers, it may inhibit our ability to offer products in sufficient quantities, on a timely basis, or at prices acceptable to our consumers. If there is any breakdown in our relationships with our preferred logistics service providers, we cannot assure you that no interruptions in our product delivery would occur or that they would not materially and adversely affect our business, prospects and results of operations.

As we do not have any direct control over these logistics service providers, we cannot guarantee their quality of service. In addition, services provided by these logistics service providers could be interrupted by unforeseen events beyond our control, such as poor handling provided by these logistics service providers, natural disasters, pandemics, adverse weather conditions, riots and labor strikes. If there is any delay in delivery, damage to products or any other issue, we may lose customers and sales and our brand image may be tarnished.

We face intense industry competition

As a blockchain technology company, we operate in a highly competitive environment. Our competitors include companies that may have a larger market share, greater brand recognition, broader international customer base, greater financial resources or other competitive advantages. We anticipate that competition will increase as cryptocurrencies gain greater acceptance and more players join the market. Furthermore, we anticipate encountering new competition as we expand our sales and operations to new locations geographically and into wider applications of blockchain, cryptocurrency mining and mining farm operations, and cryptocurrency exchange and online brokerage businesses. We also compete in the communication network devices industry in China with respect to our telecommunications business. Some of our competitors in this industry include larger, more well-established companies with greater economies of scale and more bargaining power with suppliers.

Strong competition in the market may require us to lower our prices, increase our sales and marketing expenses or otherwise invest greater resources to maintain or gain market share as needed to adequately compete. Such efforts may negatively impact our profitability. If we are unable to effectively adapt to changes or developments in the competitive landscape, our business, financial conditions and results of operations may be adversely affected.

We may encounter difficulties in recruiting and retaining key personnel

Our future growth and success depend, to a significant extent, on the continuing service and contribution of our engineers and senior management personnel. Many of these key personnel are highly skilled and experienced and are difficult to recruit and retain, particularly as we seek to expand our business with respect to the mining machines. Competition for recruiting qualified personnel is intense and recruiting personnel with the combination of skills and attributes required to execute our business strategy may be difficult, time-consuming and expensive. As a result, the loss of any key personnel or failure to recruit, train or retain qualified personnel could have a significant negative impact on our operations.

We have and may increasingly become a target for public scrutiny, including complaints to regulatory agencies, negative media coverage, and malicious allegations, all of which could severely damage our reputation and materially and adversely affect our business and prospects

We have been a target for public scrutiny, including complaints to regulatory agencies, negative media coverage, and malicious allegations. For example, in October 2018, a group of individuals initiated a complaint against one of our blockchain customers, alleging that the funds that this customer used to purchase mining machines from Zhejiang Ebang Communication Technology Co., Ltd., or Zhejiang Ebang, one of our PRC subsidiaries, were illegal proceeds from commercial fraud committed by this customer. Although we believe that these allegations are not true, negative publicity surrounding this incident had adversely affected our reputation. Certain features of cryptocurrency networks, such as decentralization, independence from sovereignty and anonymity of transactions, create the possibility of heightened attention from the public, regulators and the media. Heightened regulatory and public concerns over us and cryptocurrency-related issues may subject us to additional legal and social responsibilities and increased scrutiny and negative publicity over these issues, due to our leading position in the industry. From time to time, these allegations, regardless of their veracity, may result in consumer dissatisfaction, public protests or negative publicity, which could result in government inquiry or substantial harm to our brand, reputation and operations.

Moreover, as our business expands and grows, both organically and through acquisitions of and investments in other businesses, domestically and internationally, we may be exposed to heightened public scrutiny in jurisdictions where we already operate as well as in new jurisdictions where we may operate. There is no assurance that we would not become a target for regulatory or public scrutiny in the future or that scrutiny and public exposure would not severely damage our reputation as well as our business and prospects.

In addition, cryptocurrency asset platforms are relatively new. Many of our cryptocurrency exchange competitors are unlicensed, unregulated, operate without supervision by any governmental authorities, and do not provide the public with significant information regarding their ownership structure, management team, corporate practices, cybersecurity, and regulatory compliance. Since the inception of the crypto economy, numerous cryptocurrency assets platforms have also been sued, investigated, or shut down due to fraud, manipulative practices, business failure, security breaches and government mandated regulation. In many of these instances, customers of these platforms were not compensated or made whole for their losses. In addition, there have been reports that a significant amount of cryptocurrency asset trading volume on cryptocurrency asset 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 cryptocurrency asset platform activities is significantly smaller than otherwise understood. Negative perception, a lack of stability and standardized regulation in the crypto economy, and the closure or temporary shutdown of cryptocurrency asset platforms, and associated losses suffered by customers may reduce confidence in the crypto economy and result in greater volatility of the prices of assets, including significant depreciation in value. Any of these events could harm an adverse impact on our business.

Product defects resulting in a large-scale product recall or product liability claims against us could materially and adversely affect our business, results of operations and reputation

We manufacture products in accordance with internationally accepted quality standards and specifications provided by our customers. However, we cannot assure you that all products produced by us are free of defects. Consequently, any product defects identified by our customers or end users might erode our reputation and negatively affect our customer relationships and future business. Product defects may also result in product returns and large-scale product recalls or product liability claims against us for substantial damages. Such claims, irrespective of the outcomes or the merits, would likely be time-consuming and costly to defend and could divert significant resources and management attention. Furthermore, even if we are able to defend any such claim successfully, we cannot assure you that our customers will not lose confidence in our products or that our future relationships with our customers will not be damaged. As a result, our business, results of operations, reputation and brand image could be materially and adversely affected by any product defects.

Power shortages, labor disputes and other factors may result in constraints on our production activities

Historically, we have not experienced constraints on our production activities, including at our assembly plant, due to power shortages, labor disputes or other factors. However, there can be no assurance that our operations will not be affected by power shortages, labor disputes or other factors in the future, thereby causing material production disruptions and delays in our delivery schedule. In such event, our business, results of operations and financial condition could be materially and adversely affected.

Cyber-security incidents, including data security breaches or computer viruses, could harm our business by disrupting our delivery of services, damaging our reputation or exposing us to liability

We receive, process, store and transmit, often electronically, the data of our customers and others, much of which is confidential. Unauthorized access to our computer systems or stored data could result in the theft, including cyber-theft, or improper disclosure of confidential information, and the deletion or modification of records could cause interruptions in our operations. These cyber-security risks increase when we transmit information from one location to another, including over the Internet or other electronic networks. Despite the security measures we have implemented, our facilities, systems and procedures, and those of our third-party service providers, may be vulnerable to security breaches, acts of vandalism, software viruses, misplaced or lost data, programming or human errors or other similar events which may disrupt our delivery of services or expose the confidential information of our customers and others. Any security breach involving the misappropriation, loss or other unauthorized disclosure or use of confidential information of our customers or others, whether by us or a third party, could subject us to civil and criminal penalties, have a negative impact on our reputation, or expose us to liability to our customers, third parties or government authorities. We are not aware of such breaches to date. Any of these developments could have a material adverse effect on our business, financial condition and results of operations.

If we suffer failure or disruption in our information systems, our ability to effectively manage our business operations could be adversely affected

We use information systems to obtain, process, analyze and manage data crucial to our business such as our enterprise resource planning system. We use these systems to, among other things, monitor the daily operations of our business, maintain operating and financial data, manage our distribution network as well as manage our research and development activities, production operations and quality control systems. Any system damage or failure that interrupts data input, retrieval or transmission or increases service time could disrupt our normal operations. In particular, our operations could be disrupted if such damage or failure includes any security breach caused by hacking or cyber-security incidents, involves efforts to gain unauthorized access to our information or systems, or causes intentional malfunctions, loss or corruption of data, software or hardware, the intentional or inadvertent transmission of computer viruses and similar events or third-party actions. There can be no assurance that we will be able to effectively handle a failure of our information systems, or that we will be able to restore our operational capacity in a timely manner to avoid disruption to our business. The occurrence of any of these events could adversely affect our ability to effectively manage our business operations and negatively impact our reputation.

We may be subject to liability in connection with industrial accidents at our manufacturing facilities

Due to the nature of our operations, we are subject to the risks of potential liability associated with industrial accidents at our production facilities. We cannot assure you that industrial accidents, whether due to malfunction of equipment or other reasons, will not occur in the future at our production facilities. Under such circumstances, we may be subject to employee claims for compensation or penalties imposed by relevant government authorities and may suffer damage to our reputation. In addition, we may experience interruptions in our operations or may be required to change the manner in which we operate, as a result of governmental investigations or the implementation of safety measures due to accidents. Any of the foregoing events could materially and adversely affect our business, financial condition and results of operations.

We currently do not have insurance coverage covering all risks related to our business and operations

We do not maintain insurance policies covering all of our business risks, such as risks relating to properties, receivables, goods in transit and public liability. There is no assurance that the insurance coverage we do have would be sufficient to cover our potential losses. See the section headed “Item 4. Information on the Company—B. Business Overview—Insurance” for more information on the insurance policies maintained by us. In the event there is any damage to these items, we would have to pay for the difference ourselves where our cash flow and liquidity could be negatively affected.

If we fail to comply with labor, work safety or environmental regulations, we could be exposed to penalties, fines, suspensions or action in other forms

Our operations are subject to the labor, work safety and environmental protection laws and regulations promulgated by the PRC government. These laws and regulations require us to pay social insurance, maintain safe working conditions and adopt effective measures to control and properly dispose of solid waste and other environmental pollutants. We could be exposed to penalties, fines, suspensions or actions in other forms if we fail to comply with these laws and regulations. The laws and regulations in the PRC may be amended from time to time and changes in those laws and regulations may cause us to incur additional costs in order to comply with the more stringent rules. In the event that changes to existing laws and regulations require us to incur additional compliance costs or require costly changes to our production process, our costs could increase and we may suffer a decline in sales for certain products, as a result of which our business, financial conditions and results of operations could be materially and adversely affected.

The determination of the fair value changes of our financial assets measured at fair value through profit or loss requires the use of estimates that are based on unobservable inputs, and therefore inherently involves a certain degree of uncertainty

We use significant unobservable inputs, such as discount rate, expected rate of return, expected volatility and risk-free interest rate, in valuing our financial assets measured at fair value through profit or loss including bank wealth management products. The fair value change of financial assets at fair value through profit or loss may affect our financial position and results of operations. Accordingly, such determination requires us to make significant estimates, which may be subject to material changes, and therefore inherently involves a certain degree of uncertainty. Factors beyond our control such as general economic condition and changes in market interest rates may influence and cause adverse changes to the estimates we use and thereby affect the fair value of our financial assets measured at fair value through profit or loss, which in return may adversely affect our results of operation and financial condition.

The loss of any member of our senior management team, or our failure to attract, train and retain qualified personnel, especially our design and technical personnel, could impair our ability to grow our business and effectively execute our business strategy.

Since our inception, the growth and expansion of our business operations have been dependent upon the business strategies and foresight of our senior management. Our future success depends, in large part, on the continued contributions of our senior management team, specifically Mr. Dong Hu.

In addition, our future success depends on our ability to retain, attract and incentivize qualified personnel, including our management, sales, marketing, finance and especially research and development personnel. As the driver of our technological and product innovations, our research and development personnel represent a very significant asset of ours. As the technology in the semiconductor and blockchain industries are advancing at a quick pace, there is an increasing need for skilled engineers. Many companies across the world are struggling to find suitable candidates for their research and development positions. The process of hiring employees with the combination of skills and characteristics required to implement our strategy can be extremely competitive and time-consuming. We cannot assure you that we will be able to attract adequate personnel as we continue to pursue our business strategies.

Moreover, we cannot assure you that we will be able to retain key existing employees. The loss of any of our founder, senior management or research and development team members could harm our ability to implement our business strategies and respond to the rapidly changing market conditions in which we operate, or could result in other operating risks. The loss of one or more of our key employees, especially our key design and technical personnel, or our inability to retain, attract and motivate qualified design and technical personnel, could have a material adverse effect on our business, financial condition and results of operations.

Our corporate actions are significantly influenced by our principal shareholders, including Dong Hu, our chairman of the board of directors and chief executive officer, who have the ability to exert significant influence over important corporate matters that require approval of shareholders while their interests may differ from those of the other shareholders. This may deprive you of the opportunity to receive a premium for your Class A Ordinary Shares and materially reduce the value of your investment.

Our share capital is designated into Class A ordinary shares and Class B ordinary shares, par value HK\$0.001 per share (“Class B ordinary shares”). Each Class A ordinary share is entitled to one vote and each Class B ordinary share is entitled to twenty (20) votes at general meetings of our shareholders. Dong Hu, our chairman of the board of directors and chief executive officer, beneficially owns 100% of our Class B ordinary shares, representing approximately 87.01% of the aggregate voting power of our issued and outstanding share capital as of December 31, 2021. However, the interests of our chairman of the board of directors and chief executive officer may differ from the interests of other shareholders. This concentration of ownership and the protective provisions in our second amended and restated articles of association (the “Articles”) may discourage, delay or prevent a change in control of our company, which could have the dual effect of depriving our shareholders of an opportunity to receive a premium for their shares as part of a sale of our company and reducing the price of our Class A ordinary shares. We may not be able to enter into other transactions that could be beneficial to us without the consent of our chairman of the board of directors and chief executive officer. As a result of the foregoing, the value of your investment could be materially reduced.

Our deferred tax assets are subject to accounting uncertainties

In the application of our accounting policies, our management is required to make judgments, estimates and assumptions about the carrying amounts of certain assets and liabilities that are not readily apparent from other sources. The estimates and associated assumptions are based on historical experience and other factors that are considered to be relevant. Therefore, actual results may differ from these accounting estimates. As of December 31, 2019, 2020 and 2021, the carrying value of our total deferred tax assets was US\$8.54 million, US\$0 and US\$0, respectively. Based on our accounting policies, deferred tax assets are recognized to the extent that it is probable that future taxable profits will be available against which the temporary differences can be utilized. The realization of a deferred tax asset mainly depends on our management’s estimate as to whether sufficient future profits will be available in the future. Management’s assessment is constantly reviewed and additional deferred tax assets are recognized if it becomes probable that future taxable profits will allow the deferred tax assets to be recovered. If sufficient future taxable profits are not expected to be generated or are less than expected, a material reversal of deferred tax assets may arise in future periods.

Any change or discontinuation of preferential tax treatment we currently enjoy would increase our tax charge

Our PRC subsidiaries are subject to the PRC corporate income tax at a standard rate of 25% on their taxable income, but in 2019, 2020 and 2021, preferential tax treatment was available to three (3) of our PRC subsidiaries. Zhejiang Ebang obtained the “high-tech enterprise” tax status in November 2017, which reduced its statutory income tax rate to 15% from November 2017 to November 2020. Zhejiang Ebang further re-applied and obtained the “high-tech enterprise” tax status in December 2020. Hangzhou Dewang Information Technology Co., Ltd., or Hangzhou Dewang, obtained the “high-tech enterprise” tax status in November 2018, which reduced its statutory income tax rate to 15% from November 2018 to November 2021. Hangzhou Dewang further re-applied and obtained the “high-tech enterprise” tax in December 2021. In addition, Zhejiang Ebang Information Technology Co., Ltd., or Ebang IT, obtained the “high-tech enterprise” tax status in December 2021, which reduced its statutory income tax rate to 15% from December 2021 to December 2023.

We cannot assure you that the PRC policies on preferential tax treatments will not change or that the current preferential tax treatments we enjoy or will be entitled to enjoy will not be canceled. Moreover, we cannot assure you that our PRC subsidiaries will be able to renew the same preferential tax treatments upon expiration. If any such change, cancellation or discontinuation of preferential tax treatment occurs, the relevant PRC subsidiaries will be subject to the PRC enterprise income tax, or EIT, at a rate of 25% on taxable income. As a result, the increase in our tax charge could materially and adversely affect our results of operations.

The audit report included in this annual report is prepared by an auditor who might not be fully inspected by the Public Company Accounting Oversight Board, and, as such, you may be deprived of the benefits of such inspection

Our financial statements have been audited by MaloneBailey, LLP, an independent registered public accounting firm that is headquartered in the United States with offices in Beijing and Shenzhen, China. MaloneBailey, LLP is a firm registered with the Public Company Accounting Oversight Board (United States), or the PCAOB, and is required by the United States laws to undergo regular inspections by the PCAOB to assess its compliance with the laws of the United States and professional standards.

Because we have substantial operations within the PRC and the PCAOB might be unable to conduct full inspections of the work of our independent registered public accounting firm as it relates to those operations without the approval of the Chinese authorities, our independent registered public accounting firm might not be inspected fully by the PCAOB. This lack of PCAOB inspections in the PRC prevents the PCAOB from regularly evaluating our independent registered public accounting firm’s audits and its quality control procedures. As a result, investors may be deprived of the benefits of PCAOB inspections, lose confidence in our reported financial information and procedures and the quality of our financial statements.

As part of a continued regulatory focus in the United States on access to audit and other information currently protected by national law, in particular China, in June 2019, a bipartisan group of lawmakers introduced bills in both houses of the U.S. Congress, and passed requiring the SEC to maintain a list of issuers for which the PCAOB is not able to inspect or investigate an auditor report issued by a foreign public accounting firm. The proposed Ensuring Quality Information and Transparency for Abroad-Based Listings on our Exchanges (EQUITABLE) Act prescribes more stringent disclosure requirements for these issuers and, beginning in 2025, the delisting from U.S. national securities exchanges, such as the Nasdaq Stock Market LLC (“Nasdaq”), of issuers included on the SEC’s list for three consecutive years. On May 20, 2020, the U.S. Senate passed the Holding Foreign Companies Accountable Act, or HFCAA, which includes requirements similar to those in the EQUITABLE Act requiring the SEC to identify issuers whose audit reports are prepared by auditors that the PCAOB is unable to inspect or investigate because of restrictions imposed by non-U.S. authorities. HFCAA would also require public companies on the SEC’s list to certify that they are not owned or controlled by a foreign government and make certain additional disclosures on foreign ownership and control of such issuers in their SEC filings. HFCAA was approved by the U.S. House of Representatives on December 2, 2020 and was signed into law by the U.S. President on December 18, 2020. HFCAA would amend the Sarbanes-Oxley Act of 2002 to require the SEC to prohibit securities of any U.S.-listed companies from being listed on any of the U.S. securities exchanges, such as Nasdaq, or traded “over-the-counter”, if the registrant’s financial statements have been audited by an accounting firm branch or office that is not subject to PCAOB inspection for a period of three consecutive years after the Kennedy Bill becomes effective. On March 24, 2021, the SEC announced that it had adopted interim final amendments to implement the foregoing certification and disclosure requirements and that it was seeking public comment on the issuer identification process as well as the submission and disclosure requirements. On December 2, 2021, the SEC adopted amendments to finalize rules implementing the HFCAA, which requires the SEC to prohibit an issuer’s securities from trading on any U.S. national securities exchange and in the over-the-counter market, if the auditor is not subject to PCAOB inspections for three consecutive years. In March 2022, the SEC identified five Chinese companies which the PCAOB was unable to inspect and could be subject to delisting from U.S. exchanges if they fail to comply with the HFCAA’s auditing requirements for three consecutive years; in April 2022, the SEC added another twelve Chinese companies to such delisting watchlist. Accordingly, our securities may be prohibited from trading on the Nasdaq or other U.S. stock exchange if our auditor is not inspected by the PCAOB for three consecutive years, and this ultimately could result in our Class A ordinary shares being delisted.

Furthermore, on June 22, 2021, the U.S. Senate passed the Accelerating Holding Foreign Companies Accountable Act which, if enacted, would amend the HFCAA to reduce the number of non-inspection years from three to two years, and thus would reduce the time before our securities may be prohibited from trading or be delisted. On September 22, 2021, the PCAOB adopted a final rule implementing HFCAA, which provides a framework for the PCAOB to use when determining, as contemplated under HFCAA, whether the Board is unable to inspect or investigate completely registered public accounting firms located in a foreign jurisdiction because of a position taken by one or more authorities in that jurisdiction. On December 16, 2021, the PCAOB issued PCAOB Rule 6100 Board Determinations Under the Holding Foreign Companies Accountable Act to notify the SEC that it was unable to inspect or investigate completely registered public accounting firms headquartered in mainland China and in Hong Kong because of the positions taken by authorities in mainland China and Hong Kong.

Our independent registered public accounting firm, MaloneBailey, LLP, has been inspected by the PCAOB on a regular basis and is not among the PCAOB-registered public accounting firms headquartered in China and Hong Kong that are subject to PCAOB's determination issued on December 16, 2021 of having been unable to inspect or investigate completely. However, according to Article 177 of the PRC Securities Law (last amended in December 2019), no overseas securities regulator is allowed to directly conduct investigations or evidence collection activities in China. Accordingly, without the consent of the competent PRC securities regulators and relevant authorities, no organization or individual may provide the documents and materials relating to securities business activities to overseas parties. As a result, the audit working papers of our financial statements may not be inspected by the PCAOB without the approval of the PRC authorities, since the audit work was carried out by MaloneBailey, LLP with the collaboration of their China-based offices. The market prices of our Class A ordinary shares could be adversely affected, or our Class A ordinary shares may be delisted, as a result of possible negative impacts under the HFCAA if the PCAOB is unable to inspect auditors with a presence in China.

We incur significant costs and demands upon management and accounting and finance resources as a result of complying with the laws and regulations affecting public companies; if we fail to maintain proper and effective internal controls, our ability to produce accurate and timely financial statements and otherwise make timely and accurate public disclosure could be impaired, which could harm our operating results, our ability to operate our business and our reputation

As a public reporting company, we are required to, among other things, maintain a system of effective internal control over financial reporting. Ensuring that we have adequate internal financial and accounting controls and procedures in place so that we can produce accurate financial statements on a timely basis is a costly and time-consuming effort that needs to be re-evaluated frequently. Substantial work will continue to be required to further implement, document, assess, test and remediate our system of internal controls. As of December 30, 2021, our disclosure controls and procedures were not effective and management determined that we did not maintain effective internal control over financial reporting due to certain material weaknesses. Management is undertaking actions to remediate the material weaknesses, but there is no assurance they will be remediated this year. See “Item 15. Control and Procedures—Internal Control Over Financial Reporting.”

If our internal control over financial reporting or our disclosure controls are not effective, we may be unable to issue our financial statements in a timely manner, we may be unable to obtain the required audit or review of our financial statements by our independent registered public accounting firm in a timely manner or we may be otherwise unable to comply with the periodic reporting requirements of the SEC, our ordinary shares listing on Nasdaq could be suspended or terminated and our share price could materially suffer. In addition, we or members of our management could be subject to investigation and sanction by the SEC and other regulatory authorities and to shareholder lawsuits, which could impose significant additional costs on us and divert management attention.

Fluctuations in exchange rates could affect our results of operations and reduce the value of your investment

We primarily operate in China. Our reporting currency is denominated in U.S. dollars. We are exposed to currency risks primarily through sales and purchases which give rise to receivables, payables and cash balances that are denominated in a currency other than the functional currency of the operations to which the transaction relates. We are therefore subject to the risk of fluctuations in the exchange rate of U.S. dollars against Australian dollars, Hong Kong dollars, Renminbi, South Korean won and Euros. The value of U.S. dollars against Australian dollars, Hong Kong dollars, Renminbi, South Korean won and Euros fluctuates and is subject to changes resulting from the PRC government's policies and depends to a large extent on domestic and international economic and political developments, as well as supply and demand in the local market. With the development of the foreign exchange market and progress toward interest rate liberalization and Renminbi internationalization, the PRC government may in the future announce further changes to the exchange rate system, and we cannot assure you that Renminbi will not appreciate or depreciate significantly in value against Australian dollars, Hong Kong dollars, South Korean won, U.S dollars or Euros in the future.

We incurred a foreign exchange gain of US\$5.7 million and US\$1.8 million in 2019 and 2021, and a foreign exchange loss of US\$0.3 million in 2020. We had currency translation losses of US\$1.2 million in 2019, recognized in other comprehensive loss, and currency translation gains of US\$2.0 million and US\$1.0 million in 2020 and 2021, respectively. Such currency translation gains or losses resulted from exchange differences on translation of financial statements of our entities using currencies other than U.S. dollars as their functional currencies, net of nil tax.

In addition, should Renminbi appreciate against other currencies, the value of the proceeds from any future financings, which are to be converted from U.S. dollars or other currencies into Renminbi, would be reduced and might accordingly hinder our business development due to the reduced amount of funds raised. On the other hand, in the event of devaluation of Renminbi, the dividend payments of our company, which are to be paid in U.S. dollars after conversion of the distributable profit denominated in Renminbi, would be reduced. Hence, substantial fluctuation in the currency exchange rate of Renminbi may have a material adverse effect on our business, results of operations and financial condition and the value of your investment in our Class A ordinary shares.

Risks Relating to Our Securities

Because we do not expect to pay dividends in the foreseeable future, you must rely on price appreciation of our Class A ordinary shares for return on your investment

We currently intend to retain most, if not all, of our available funds and any future earnings to fund the development and growth of our business. As a result, we do not expect to pay any cash dividends in the foreseeable future. Therefore, you should not rely on an investment in the Class A ordinary shares as a source for any future dividend income.

Our board of directors has complete discretion as to whether to distribute dividends. Even if our board of directors decides to declare and pay dividends, the timing, amount and form of future dividends, if any, will depend on, among other things, our future results of operations and cash flow, our capital requirements and surplus, the amount of distributions, if any, received by us from our subsidiary, our financial condition, contractual restrictions and other factors deemed relevant by our board of directors. Accordingly, the return on your investment in our Class A ordinary shares will likely depend entirely upon any future price appreciation of the Class A ordinary shares. There is no guarantee that the Class A ordinary shares will appreciate in value or even maintain the price at which you purchased the Class A ordinary shares. You may not realize a return on your investment in our Class A ordinary shares and you may even lose your entire investment in our Class A ordinary shares.

There can be no assurance that we will not be classified as a passive foreign investment company, or PFIC, for U.S. federal income tax purposes for any taxable year, which could result in adverse U.S. federal income tax consequences to U.S. Holders of our Class A ordinary shares and related warrants

A non-U.S. corporation, such as our company, will be classified as a “passive foreign investment company,” or PFIC, for U.S. federal income tax purposes for any taxable year if either (1) at least 75% of its gross income for such year consists of certain types of “passive” income or the “income test”; or (2) at least 50% of the value of its assets (generally based on an average of the quarterly values of the assets) during such year is attributable to assets that produce passive income or are held for the production of passive income, or the “asset test.” Based on the current and expected composition of our income and assets and value of our assets and projections as to the value of our Class A ordinary shares, we do not presently expect to be a PFIC for the current taxable year. However, no assurance can be given in this regard because the determination of whether we are or will become a PFIC for any taxable year is a fact-intensive inquiry made on an annual basis that depends, in part, upon the composition of our income and assets, which may change over time if we expand and diversify our product offerings. Fluctuations in the market price of our Class A ordinary shares may cause us to be or become a PFIC for the current or subsequent taxable years because the value of our assets for the purpose of the asset test may be determined by reference to the market price of our Class A ordinary shares (which has been and may continue to be volatile). The composition of our income and assets may also be affected by how, and how quickly, we use our liquid assets and the cash.

If we were to be or become a PFIC for any taxable year during which a U.S. Holder (as defined in “Item 10. Additional Information—E. Taxation—Material U.S. Federal Income Tax Considerations”) holds our Class A ordinary shares or warrants, certain adverse U.S. federal income tax consequences could apply to such U.S. Holder. See “Item 10. Additional Information—E. Taxation—Material U.S. Federal Income Tax Considerations—Passive Foreign Investment Company Rules.”

Our Articles contain anti-takeover provisions that could have a material adverse effect on the rights of holders of our Class A ordinary shares

Our Articles contain provisions to limit the ability of others to acquire control of our company or cause us to engage in change-of-control transactions. These provisions could have the effect of depriving our shareholders of an opportunity to sell their shares at a premium over prevailing market prices by discouraging third parties from seeking to obtain control of our company in a tender offer or similar transaction. Our board of directors has the authority, without further action by our shareholders, to issue preferred shares in one or more series and to fix their designations, powers, preferences, privileges, and relative participating, optional or special rights and the qualifications, limitations or restrictions, including dividend rights, conversion rights, voting rights, terms of redemption and liquidation preferences, any or all of which may be greater than the rights associated with our ordinary shares. Preferred shares could be issued quickly with terms calculated to delay or prevent a change in control of our company or make removal of management more difficult. If our board of directors decides to issue preferred shares, the price of our Class A ordinary shares may fall and the voting and other rights of the holders of our Class A ordinary shares may be materially and adversely affected.

You may face difficulties in protecting your interests, and your ability to protect your rights through U.S. courts may be limited, because we are incorporated under Cayman Islands law and conduct our operations primarily in emerging markets

We are an exempted company incorporated under the laws of the Cayman Islands. Our corporate affairs are governed by our Articles, the Companies Act (Revised) of the Cayman Islands and the common law of the Cayman Islands. The rights of shareholders to take action against the directors, actions by minority shareholders and the fiduciary responsibilities of our directors to us under Cayman Islands law are to a large extent governed by the common law of the Cayman Islands. The common law of the Cayman Islands is derived in part from comparatively limited judicial precedent in the Cayman Islands as well as from the common law of England, the decisions of whose courts are of persuasive authority, but are not binding, on a court in the Cayman Islands. The rights of our shareholders and the fiduciary responsibilities of our directors under Cayman Islands law are not as clearly established as they would be under statutes or judicial precedent in some jurisdictions in the United States. In particular, the Cayman Islands have a less developed body of securities laws than the United States. Some U.S. states, such as Delaware, have more fully developed and judicially interpreted bodies of corporate law than the Cayman Islands. In addition, Cayman Islands companies may not have standing to initiate a shareholder derivative action in a federal court of the United States.

Shareholders of Cayman Islands exempted companies like us have no general rights under Cayman Islands law to inspect corporate records or to obtain copies of lists of shareholders of these companies. Our directors have discretion under our Articles to determine whether or not, and under what conditions, our corporate records may be inspected by our shareholders, but are not obliged to make them available to our shareholders. This may make it more difficult for you to obtain the information needed to establish any facts necessary for a shareholder motion or to solicit proxies from other shareholders in connection with a proxy contest.

Certain corporate governance practices in the Cayman Islands, which is our home country, differ significantly from requirements for companies incorporated in other jurisdictions such as the United States. If we choose to follow home country practice in the future, our shareholders may be afforded less protection than they otherwise would under rules and regulations applicable to U.S. domestic issuers.

In addition, we conduct substantially all of our business operations in emerging markets, including China, and substantially all of our directors and senior management are based in China. The SEC, U.S. Department of Justice, or the DOJ, and other authorities often have substantial difficulties in bringing and enforcing actions against non-U.S. companies and non-U.S. persons, including company directors and officers, in certain emerging markets, including China. Additionally, our public shareholders may have limited rights and few practical remedies in emerging markets where we operate, as shareholder claims that are common in the United States, including class action securities law and fraud claims, generally are difficult or impossible to pursue as a matter of law or practicality in many emerging markets, including China. For example, in China, there are significant legal and other obstacles for the SEC, the DOJ and other U.S. authorities to obtaining information needed for shareholder investigations or litigation. Although the competent authorities in China may establish a regulatory cooperation mechanism with the securities regulatory authorities of another country or region to implement cross-border supervision and administration, the regulatory cooperation with the securities regulatory authorities in the United States has not been efficient in the absence of a mutual and practical cooperation mechanism. According to Article 177 of the PRC Securities Law which became effective in March 2020, no foreign securities regulator is allowed to directly conduct investigation or evidence collection activities within the territory of the PRC. Accordingly, without the consent of the competent PRC securities regulators and relevant authorities, no organization or individual may provide the documents and materials relating to securities business activities to foreign securities regulators.

As a result of all of the above, our public shareholders may have more difficulty in protecting their interests in the face of actions taken by management, members of the board of directors or controlling shareholders than they would as public shareholders of a company incorporated in the United States.

As a company incorporated in the Cayman Islands, we are permitted to adopt certain home country practices in relation to corporate governance matters that differ significantly from Nasdaq listing standards; these practices may afford less protection to shareholders than they would enjoy if we complied fully with the relevant listing standards

As a Cayman Islands company listed on the Nasdaq Global Select Market, we are subject to the Nasdaq Stock Market listing standards (“Nasdaq Rules”). However, the Nasdaq Rules permit a foreign private issuer like us to follow the corporate governance practices of its home country. Certain corporate governance practices in the Cayman Islands, which is our home country, may differ significantly from the Nasdaq Rules. We currently follow home country practice in lieu of the requirements under the Nasdaq Rules with respect to certain corporate governance standards. For example, based on home country practice, we are not required to seek shareholder approval for issuance of 20% or more of our outstanding ordinary shares or voting power in a private offering (as defined by Nasdaq Rules) and we are not required to host an annual general meeting of shareholders each year. Accordingly, our shareholders may not be provided with the benefits of certain corporate governance requirements of the Nasdaq Rules.

Cayman Islands economic substance requirements may have an effect on our business and operations

Pursuant to the International Tax Cooperation (Economic Substance) Act (Revised) of the Cayman Islands, or the ES Act, that came into force on January 1, 2019, a “relevant entity” is required to satisfy the economic substance test set out in the ES Act. A “relevant entity” includes an exempted company incorporated in the Cayman Islands as is our company. Based on the current interpretation of the ES Act, we believe that our company, Ebang International Holdings Inc., is a pure equity holding company since it only holds equity participation in other entities and only earns dividends and capital gains. Accordingly, for so long as our company, Ebang International Holdings Inc., is a “pure equity holding company,” it is only subject to the minimum substance requirements, which require us to (1) comply with all applicable filing requirements under the Companies Act, Cap. 22 (Act 3 of 1961, as consolidated and revised) of the Cayman Islands; and (2) has adequate human resources and adequate premises in the Cayman Islands for holding and managing equity participations in other entities. However, there can be no assurance that we will not be subject to more requirements under the ES Act. Uncertainties over the interpretation and implementation of the ES Act may have an adverse impact on our business and operations.

Our dual-class voting structure will limit your ability to influence corporate matters and could discourage others from pursuing any change of control transactions that holders of our Class A ordinary shares may view as beneficial

We have a dual-class share structure such that our ordinary shares consist of Class A ordinary shares and Class B ordinary shares. Holders of Class A ordinary shares are entitled to one vote per share, while the sole holder of Class B ordinary shares is entitled to 20 votes per share. Each Class B ordinary share is convertible into one Class A ordinary share at any time by the holder thereof, while Class A ordinary shares are not convertible into Class B ordinary shares under any circumstances. Upon any sale, transfer, assignment or disposition of any Class B ordinary shares by a holder thereof to any non-affiliate of such holder, each of such Class B ordinary shares will be automatically and immediately converted into one Class A ordinary share.

Mr. Dong Hu, our founder, chairman of the board of directors and chief executive officer, beneficially owns all of our issued Class B ordinary shares. These Class B ordinary shares constituted approximately 24.9% of our total issued and outstanding share capital and 86.9% of the aggregate voting power of our total issued and outstanding share capital as of April 28, 2022. As a result of the dual-class share structure and the concentration of ownership, Mr. Dong Hu has a considerable influence over matters such as decisions regarding mergers and consolidations, election of directors and other significant corporate actions. He may take actions that are not in the best interest of us or our other shareholders. This concentration of ownership may discourage, delay or prevent a change in control of our company, which could have the effect of depriving our other shareholders of the opportunity to receive a premium for their shares as part of a sale of our company and may reduce the price of our Class A ordinary shares. This concentrated control will limit your ability to influence corporate matters and could discourage others from pursuing any potential merger, takeover or other change of control transactions that holders of Class A ordinary shares may view as beneficial.

In addition, certain shareholder advisory firms have announced changes to their eligibility criteria for inclusion of shares of public companies on certain indices, including the S&P 500, to exclude companies with multiple classes of shares and companies whose public shareholders hold no more than 5% of total voting power from being added to such indices. Several shareholder advisory firms have also announced their opposition to the use of multiple class structures. As a result, the dual-class structure of our ordinary shares may prevent the inclusion of our Class A ordinary shares in such indices and may cause shareholder advisory firms to publish negative commentary about our corporate governance practices or otherwise seek to cause us to change our capital structure. Any such exclusion from indices could result in a less active trading market for our Class A ordinary shares. Any actions or publications by shareholder advisory firms critical of our corporate governance practices or capital structure could also adversely affect the value of our Class A ordinary shares.

We are a “controlled company” within the meaning of the Nasdaq Rules, and, as a result, can rely on exemptions from certain corporate governance requirements that provide protection to shareholders of other companies

We are a “controlled company” as defined under the Nasdaq Rules as Mr. Dong Hu, our founder, chairman of the board of directors and chief executive officer, owns more than 50% of our total voting power. For so long as we remain a controlled company under that definition, we are permitted to elect to rely, and may rely, on certain exemptions from corporate governance rules. As a result, you may not have the same protection afforded to shareholders of companies that are subject to these corporate governance requirements.

Certain judgments obtained against us by our shareholders may not be enforceable

We are a Cayman Islands company and the majority of our assets are located outside of the United States. The most significant portion of our operations is conducted in China. In addition, a majority of our current directors and officers are nationals and residents of countries other than the United States. Substantially all of the assets of these persons may be located outside the United States. As a result, it may be difficult or impossible for you to bring an action against us or against these individuals in the United States in the event that you believe that your rights have been infringed under the U.S. federal securities laws or otherwise. Even if you are successful in bringing an action of this kind, the laws of the Cayman Islands and of China may render you unable to enforce a judgment against our assets or the assets of our directors and officers.

We are an emerging growth company within the meaning of the Securities Act and may take advantage of certain reduced reporting requirements

We are an “emerging growth company,” as defined in the Jumpstart Our Business Startups Act (the “JOBS Act”), and we may take advantage of certain exemptions from requirements applicable to other public companies that are not emerging growth companies including, most significantly, not being required to comply with the auditor attestation requirements of Section 404 for so long as we are an emerging growth company until the fifth anniversary from the date of our initial listing.

The JOBS Act also provides that an emerging growth company does not need to comply with any new or revised financial accounting standards until such date that a private company is otherwise required to comply with such new or revised accounting standards. However, we have elected to “opt out” of this provision and, as a result, we will comply with new or revised accounting standards as required when they are adopted for public companies. This decision to opt out of the extended transition period under the JOBS Act is irrevocable.

We are a foreign private issuer within the meaning of the rules under the Exchange Act, and as such we are exempt from certain provisions applicable to United States domestic public companies

Because we are a foreign private issuer under the Exchange Act, we are exempt from certain provisions of the securities rules and regulations in the United States that are applicable to U.S. domestic issuers, including:

- the rules under the Exchange Act requiring the filing of quarterly reports on Form 10-Q or current reports on Form 8-K with the SEC;
- the sections of the Exchange Act regulating the solicitation of proxies, consents, or authorizations in respect of a security registered under the Exchange Act;
- the sections of the Exchange Act requiring insiders to file public reports of their stock ownership and trading activities and liability for insiders who profit from trades made in a short period of time; and
- the selective disclosure rules by issuers of material nonpublic information under Regulation FD.

We have and plan to continue to file an annual report on Form 20-F within four months of the end of each fiscal year. In addition, we publish our results on a semi-annual basis through press releases, distributed pursuant to the rules and regulations of the Nasdaq Global Select Market. Press releases relating to financial results and material events will also be furnished to the SEC on Form 6-K. However, the information we are required to file with or furnish to the SEC will be less extensive and less timely than that required to be filed with the SEC by U.S. domestic issuers. As a result, you may not be afforded the same protections or information that would be made available to you were you investing in a U.S. domestic issuer.

Certain data and information in this annual report were obtained from third-party sources and were not independently verified by us

This annual report contains certain data and information that have been derived from third-party reports, either commissioned by us or publicly accessible, and other publicly available sources. Statistical data in these sources of information also include projections based on a number of assumptions. The countries where we operate property markets may not grow at the rate projected by such statistical data, or at all. The failure of our industry to grow at the projected rate may have a material adverse effect on our business. In addition, the complex and changing nature of the broad macroeconomic factors discussed in this annual report may result in significant uncertainties for any projections or estimates relating to the growth prospects or future condition of our market. Furthermore, if any one or more of the assumptions underlying the market data is later found to be incorrect, actual results may differ from the projections based on these assumptions.

We have not independently verified the data and information contained in such third-party publications and reports. Data and information contained in such third-party publications and reports may be collected using third-party methodologies, which may differ from the data collection methods used by us. In addition, these industry publications and reports generally indicate that the information contained therein was believed to be reliable, but do not guarantee the accuracy and completeness of such information. You should therefore not place undue reliance on such information.

General Risk Factors

We have in the past incurred and continue to incur losses and negative cash flows from operating activities, and we may not achieve or sustain profitability

We incurred a loss from operations of US\$50.6 million and US\$26.6 million in 2019 and 2020, respectively. We generated an income from operations of US\$2.0 million in 2021. We incurred a gross loss of US\$30.6 million and US\$2.9 million in 2019 and 2020, and generated gross profit of US\$29.2 million in 2021. We had negative cash flows from operating activities of US\$13.3 million, US\$15.8 million and US\$14.1 million for 2019, 2020 and 2021, respectively. In addition, we have received significant non-recurring tax rebates from local governments in the past, but we cannot assure you that we will continue to receive significant tax rebates or other discretionary government grants in the future. Even if we are eligible for any additional tax rebates or other government grants, we cannot assure you of the timing and the amount of any such rebates or other grants. To the extent that we do not receive any additional tax rebates or other government grants, our financial condition could be materially and adversely affected. We cannot assure you that we will be able to generate net profit or positive cash flow from operating activities in the future. Our ability to achieve profitability will depend in large part on our ability to control expenses and manage our growth effectively, to achieve a more stable performance given the significant fluctuation and volatility of the Bitcoin price and Bitcoin mining machine business, and to maintain our competitive advantage in the Bitcoin markets. We expect to continue to make investments in the development and expansion of our business, which will place significant demands on our management and our operational and financial resources. Continuous expansion may increase the complexity of our business, and we may encounter various difficulties. We may fail to develop and improve our operational, financial and management controls, enhance our financial reporting systems and procedures, recruit, train and retain highly skilled personnel, or maintain customer satisfaction to effectively support and manage our growth. If we invest substantial time and resources to expand our operations but fail to manage the growth of our business and capitalize on our growth opportunities effectively, we may not be able to achieve profitability, and our business, results of operations and financial condition would be materially and adversely affected.

Our limited operating history and our volatile historical results of operations could make it difficult for us to forecast our business and assess the seasonality and volatility in our business

We began producing and selling our own brand mining machines in December 2016. We generated US\$109.1 million, US\$19.0 million and US\$51.5 million in revenue in 2019, 2020 and 2021, respectively. As we have suffered from the significant drop in the average Bitcoin price historically, we cannot assure you that we will be able to gain revenue growth or that we will not experience another significant decline.

As the market for Bitcoin mining machines is relatively nascent and still rapidly evolving, we cannot forecast longer-term demand or order patterns for our products. Because of our limited operating history and historical data, as well as the limited visibility into future demand trends for our products, we may not be able to accurately forecast our future total revenue and budget our operating expenses accordingly. As most of our expenses are fixed in the short-term or incurred in advance of anticipated total revenue, we may not be able to adjust our expenses in a timely manner in order to offset any shortfall in revenue.

Our business is subject to the varying order patterns of the Bitcoin mining machine market. In addition, many of the regions in which our products are purchased have varying holiday seasons that differ from traditional patterns observed by other semiconductor suppliers and these seasonal buying patterns can impact our sales. We have experienced fluctuations in orders during our limited operating history, and we expect such volatility to occur in the future. Our volatile historical results of operations could make it difficult to assess the impact of seasonal factors on our business. If we or any of our third-party manufacturing service providers are unable to increase production of new or existing products to meet any increases in demand due to seasonality or other factors, our total revenue would be adversely affected and our reputation with our customers may be damaged. Conversely, if we overestimate customer demand, we may reduce our orders or delay shipments of our products from units forecasted, and our total revenue in a particular period could be lower than expected.

Our business requires significant financial resources and we may need additional capital but may not be able to obtain it in a timely manner and on favorable terms or at all

We had negative cash flows from operating activities of US\$13.3 million, US\$15.8 million and US\$14.1 million for 2019, 2020 and 2021, respectively. We have in the past financed our working capital needs primarily with our net cash from operating activities, capital contributions by shareholders and bank borrowings.

We may require additional cash resources due to the future growth, development and expansion of our business. Our future capital requirements may be substantial as we seek to expand our operations, diversify our product offering, and pursue acquisitions and equity investments. In addition, we incurred accrued payables of US\$9.0 million and accounts payable of US\$3.4 million as of December 31, 2021. If our cash resources are insufficient to satisfy our cash requirements, we may be required to seek to issue additional equity or debt securities or obtain new or expanded credit facilities or enter into additional factoring arrangements.

Our ability to obtain external financing in the future is subject to a variety of uncertainties, including our future financial condition, results of operations and cash flows and the liquidity of international capital and lending markets. In addition, our loan agreements may contain financial covenants that restrict our ability to incur additional indebtedness or to distribute dividends. Any indebtedness that we may incur in the future may also contain operating and financial covenants that could further restrict our operations. There can be no assurance that financing will be available in a timely manner or in amounts or on terms acceptable to us, or at all. A large amount of bank borrowings and other debt may result in a significant increase in interest expense while at the same time exposing us to increased interest rate risks. Equity financings could result in dilution to our shareholders, and the securities issued in future financings may have rights, preferences and privileges that are senior to those of our ordinary shares. Any failure to raise needed funds on terms favorable to us, or at all, could severely restrict our liquidity as well as have a material adverse effect on our business, results of operations and financial condition.

Third parties have claimed and may, from time to time, assert or claim that we infringed their intellectual property rights and any failure to protect our intellectual property rights could have a material adverse impact on our business

We operate in an industry where participants own a large number of patents and other intellectual property rights that are material to operations and will vigorously pursue, protect and defend these rights. Our competitors or other third parties may allege to own intellectual property rights and interests that could potentially conflict with our own. It is difficult to monitor all of the patent applications and other intellectual property rights protection registrations or applications that may be filed in the PRC or in other relevant jurisdictions. If we offer products that may potentially infringe on such pending applications and the applications are granted, third parties may initiate intellectual infringement claims against us. For example, we are currently involved in an ongoing civil litigation claim against us and four other defendants in relation to potential infringement of intellectual property rights.

As we expand our operations with new products and into new markets, the chances of encountering infringement claims by third parties will increase. We may incur substantial costs in defending or settling such disputes and such actions could divert significant resources and management attention. In addition, some of our customer agreements in the future may require us to indemnify and defend our customers from third-party infringement claims and to pay damages in the case of adverse rulings. As such, claims of this sort also could harm our relationships with our customers and may deter future customers from doing business with us. If securities analysts and investors regard these announcements as negative, the market price of our Class A ordinary shares may decline. We do not know whether we could prevail in any such proceeding given the complex technical issues and inherent uncertainties involved in IP litigation. If any pending or future proceedings result in an adverse outcome, we could be required to:

- cease the manufacturing, use or sale of the infringing products, processes or technologies;
- stop shipment to certain geographic areas;
- pay substantial damages for infringement;
- expend significant resources to develop non-infringing processes, technologies or products;
- license technology from the third-party claiming infringement, which license may not be available on commercially reasonable terms, or at all;
- cross-license our technology to a competitor in order to resolve an infringement claim, which could weaken our ability to compete with that competitor; or
- pay substantial damages to our customers to discontinue their use of or replace infringing products sold to them with non-infringing products.

Even if intellectual property claims do not result in litigation or are resolved in our favor, these claims, and the time and resources necessary to resolve them, could divert the resources of our management and require significant expenditures. Moreover, such claims, whether successful or not, may cause significant damage to our reputation and a loss of customers. Any of the foregoing could prevent us from competing effectively and could have an adverse effect on our business, operating results, and financial condition.

If we are unable to maintain or enhance our brand recognition, our business, results of operations and financial condition may be materially and adversely affected

Maintaining and enhancing the recognition, image and acceptance of our brand are important to our ability to differentiate our products from and to compete effectively with our peers. Our brand image, however, could be jeopardized if we fail to maintain high product quality, pioneer and keep pace with evolving technology trends, or timely fulfill the orders for our products. If we fail to promote our brand or to maintain or enhance our brand recognition and awareness among our customers, or if we are subject to events or negative allegations affecting our brand image or the publicly perceived position of our brand, our business, operating results and financial condition could be adversely affected.

If counterfeit products are sold under our brand names and trademarks, our reputation and financial results could be materially and adversely affected.

Third-party merchants and dealers are separately responsible for sourcing counterfeit products that are sold under our brand names and trademarks. Counterfeit products may be defective or inferior in quality as compared to authentic products. If our customers are not satisfied by counterfeit products sold under our brand names and trademarks, we may be subject to reputational damage. We believe our brand and reputation are important to our success and our competitive position. The discovery of counterfeit products sold under our brand names and trademarks may severely damage our reputation and cause customers to refrain from making future purchases from us, which would materially and adversely affect our business operations and financial results.

Any global systemic economic and financial crisis could negatively affect our business, results of operations, and financial condition

Our results of operations could be adversely affected by general conditions in the economy and financial markets, both in the PRC and globally, including conditions that are outside of our control, such as the continuing uncertainty regarding the duration and scope of the COVID-19 pandemic, global supply chain disruptions, tensions in the relationship between the PRC and surrounding Asian countries, the recent inflation in the United States and the foreign and domestic government sanctions imposed on Russia as a result of its recent invasion of Ukraine. There were and could be in the future a number of domino effects from such turmoil on our business, including significant decreases in orders from our customers; insolvency of key suppliers resulting in product delays; inability of customers to obtain credit to finance purchases of our products and/or customer insolvencies; and counterparty failures negatively impacting our operations. Any systemic economic or financial crisis could cause revenues for the semiconductor industry as a whole to decline dramatically and could materially and adversely affect our results of operations.

We face risks of unexpected events, including natural disasters, acts of God and occurrence of epidemics, which could severely disrupt our business operations

Natural disasters, epidemics and other acts of God which are beyond our control may adversely affect the economy, infrastructure and livelihood of the people in China and in other territories in which we operate and may materially and adversely affect our operations, as our primary facilities and offices are located in China and we have other facilities and offices outside of China. Material damage to, or the loss of, such facilities due to fire, severe weather, flood, earthquake, or other acts of God or cause may not be adequately covered by proceeds of our insurance coverage and could materially and adversely affect our business and results of operations. Any outbreaks of contagious disease, acts of war or terrorist attacks may cause damage or disruption to our business, our employees and our markets, any of which could adversely impact our business and results of operations.

The trading price of our Class A ordinary shares may be volatile, which could result in substantial losses to investors

The trading price of our Class A ordinary shares has been volatile since our Class A ordinary shares began to trade on the Nasdaq Global Select Market on June 26, 2020. The trading price of our Class A ordinary shares has previously and may in the future fluctuate widely due to factors beyond our control. This volatility may occur because of broad market and industry factors, like the performance and fluctuation of the market prices of other companies with business operations located mainly in China that have listed their securities in the United States as well as factors related to the cryptocurrency industry and pricing of cryptocurrencies generally. A number of Chinese companies have listed or are in the process of listing (or attempting to list) their securities on U.S. stock markets. The securities of some of these companies have experienced significant volatility, including price declines in connection with their initial public offerings. The trading performances of these Chinese companies' securities after their offerings may affect the attitudes of investors toward Chinese companies listed in the United States in general and consequently may impact the trading performance of the Class A ordinary shares, regardless of our actual operating performance.

In addition to market and industry factors, the price and trading volume for the Class A ordinary shares may be highly volatile for factors specific to our own operations, including the following:

- variations in our revenues, earnings and cash flow;
- changes in the operating performance or market valuations of other cryptocurrency related companies;
- announcements of new investments, acquisitions, strategic partnerships or joint ventures by us or our competitors;
- announcements of new services and expansions by us or our competitors;
- changes in financial estimates by securities analysts;
- detrimental adverse publicity about us, our services or our industry;
- additions or departures of key personnel;
- fluctuations of exchange rates between Renminbi and the U.S. dollar;
- release of lock-up or other transfer restrictions on our outstanding equity securities or sales of additional equity securities;
- potential litigation or regulatory investigations; and
- general economic or political conditions in China or elsewhere in the world.

Any of these factors may result in large and sudden changes in the volume and price at which the Class A ordinary shares will trade.

Additionally, any negative news or perceptions about inadequate corporate governance practices or fraudulent accounting, corporate structure or other matters of other Chinese companies may also negatively affect the attitudes of investors towards Chinese companies in general, including us, regardless of whether we have engaged in any inappropriate activities. In particular, the global financial crisis and the ensuing economic recessions in many countries have contributed and may continue to contribute to extreme volatility in the global stock markets. These broad market and industry fluctuations may adversely affect the market price of our Class A ordinary shares. Volatility or a lack of positive performance in our Class A ordinary shares price may also adversely affect our ability to retain key employees, most of whom may be granted options or other equity incentives in the future.

If securities or industry analysts do not publish research or reports about our business, or if they adversely change their recommendations regarding our Class A ordinary shares, the market price for the Class A ordinary shares and trading volume could decline

The trading market for our Class A ordinary shares will be influenced by research or reports that industry or securities analysts publish about our business. If one or more analysts who cover us downgrade our Class A ordinary shares, the market price for our Class A ordinary shares would likely decline. If one or more of these analysts cease to cover us or fail to regularly publish reports on us, we could lose visibility in the financial markets, which in turn could cause the market price or trading volume for our Class A ordinary shares to decline.

We will continue to incur increased costs as a public company, which could lower our profits or make it more difficult to run a business

As a public company, we have incurred significant legal, accounting and other expenses that we did not incur as a private company to ensure that we comply with the various requirements on corporate governance practices imposed by the Sarbanes-Oxley Act of 2002, as well as rules subsequently implemented by the SEC and Nasdaq Global Select Market. For example, we have increased the number of independent directors and adopt policies regarding internal controls and disclosure controls and procedures. We have also incurred additional costs associated with our public company reporting requirements. We expect that these rules and regulations will continue to cause us to incur elevated legal and financial compliance costs, devote substantial management effort to ensure compliance and make some corporate activities more time-consuming and costly. We are currently evaluating and monitoring developments with respect to these rules and regulations, and we cannot predict or estimate with any degree of certainty the amount of additional costs we may incur or the timing of such costs.

ITEM 4. INFORMATION ON THE COMPANY

A. History and development of the company

In January 2010, Mr. Dong Hu, our founder, chairman of the board of directors and chief executive officer, founded Zhejiang Ebang Communication Technology Co., Ltd., or Zhejiang Ebang, which established Ebang IT in August 2010, to conduct development and sales of communications network access devices and related equipment. In early 2014, in view of the burgeoning opportunities in the blockchain industry, we began to conduct research and feasibility studies on the blockchain business and develop blockchain computing equipment. In August 2015, Zhejiang Ebang was listed in China on the National Equities Exchange and Quotations Co., Ltd., or the NEEQ. In August 2016, we acquired 51.05% of the equity interest in Hangzhou Dewang through our capital injection in Hangzhou Dewang. In March 2018, Zhejiang Ebang was delisted from the NEEQ in preparation for the reorganization.

On May 17, 2018, we incorporated Ebang International Holdings Inc., our holding company, as an exempted company with limited liability in the Cayman Islands. In 2018, we underwent a series of corporate reorganizations for our initial public offering, including the incorporation of our company as the listing vehicle, incorporation of our oversea holding companies and issuance of shares to shareholders of Ebang Hongfa to reflect their respective shareholdings before the reorganization. We completed the reorganization in May 2018.

On June 26, 2020, our Class A ordinary shares commenced trading on the Nasdaq Global Select Market under the symbol “EBON.” We raised approximately US\$91.7 million in net proceeds after deducting underwriting commissions and the offering expenses payable by us from our initial public offering.

From August 2020 to November 2021, to expand our blockchain-enabled financial businesses globally, we established our subsidiaries in Canada, Australia, Singapore, Hong Kong, the Bahamas, New Zealand and the United States. As of the date of this annual report, we have established two cryptocurrency exchange platforms outside the PRC, received the Money Service Business License in Canada, received registration approval as a digital currency exchange in Australia, acquired a company with an AFSL for engaging in financial services in Australia, and received the TCSP license and approval to provide company and trust service business in Hong Kong.

Corporate Information

Our principal executive offices are located at Building 7, No. 5, Nangonghe Road, Linping Street, Yuhang District, Hangzhou, Zhejiang, China. Our telephone number at this address is +86 571-8817-6197. Our registered office in the Cayman Islands is located at Cricket Square, Hutchins Drive, P.O. Box 2681, Grand Cayman KY1-1111.

Investors should submit any inquiries to the address and telephone number of our principal executive offices. Our corporate website is <http://www.ebang.com>. Our agent for service of process in the United States is located at 122 East 42nd Street, 18th Floor, New York, N.Y. 10168, United States.

B. Business Overview

We are a global blockchain technology company with strong application-specific integrated circuit (ASIC) chip design capability. With years of industry experience and expertise in ASIC chip design, we have become a global Bitcoin mining machine producer with steady access to wafer foundry capacity. With our licensed and registered entities in various jurisdictions, we intend to launch a professional, convenient and innovative digital asset financial service platform to expand into the upstream and the downstream of blockchain and cryptocurrency industry value chain.

Leveraging our deep understanding of the cryptocurrency industry and strong blockchain technology as applied to ASIC chip design, we strive to expand into the upstream and downstream markets of the blockchain and cryptocurrency industry value chain to diversify our offerings and achieve a more stable financial performance. We intend to start with the cryptocurrency mining and farming business, and expand into the cryptocurrency trading exchange business. In April 2021, we launched our first self-developed proprietary cryptocurrency exchange platform Ebonex and has since launched another self-developed proprietary cryptocurrency exchange platform, also branded Ebonex, in Australia in February 2022. We believe our extensive experience in the blockchain and cryptocurrency industry positions us well in our future endeavors. We intend to continue to concentrate our efforts in our cryptocurrency and blockchain related businesses in 2022.

In addition, we are at an initial preparatory stage of executing our plan to launch blockchain-enabled financial businesses to capture the growth opportunity along the value chain of the blockchain industry, specifically in Singapore, Hong Kong, the Bahamas, New Zealand and the United States. Although we have not generated significant revenues from such businesses to date, we carefully selected these countries and/or regions because of what we believe to be a Fintech-friendly regulatory environment.

Overseas Expansion

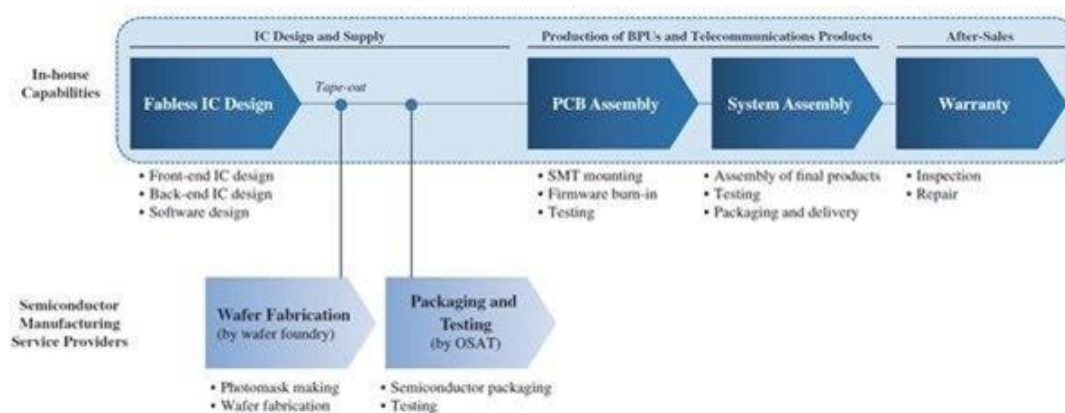
In August 2020, we established wholly-owned subsidiaries in Singapore and Canada in preparation for establishing cryptocurrency exchanges. In October 2020, we established a wholly-owned subsidiary in Australia to apply for an Australian financial services license with the Australian Securities & Investments Commission (the Australian Government body that regulates the Australian financial services industry) and for registration with AUSTRAC (the Australian Government body that regulates Bitcoin exchanges). In June 2021, we established wholly-owned subsidiaries in the U.S. in preparation for establishing a cryptocurrency exchange and online brokerage services in the U.S. and accelerating the construction of compliant mining farms in North America. We carefully selected these countries and/or regions because of what we believe to be a Fintech-friendly regulatory environment. We are at an initial preparatory stage of executing our plan to launch blockchain-enabled financial business to capture the growth opportunity along the value chain of the blockchain industry. As of the date of this annual report, we have received the Money Service Business License from the Financial Transactions and Reports Analysis Centre of Canada, which will allow us to engage in foreign exchange trading, digital currency transferring and dealing in virtual currencies in Canada; registration approval from AUSTRAC as a digital currency exchange, which allows us to offer cryptocurrency exchange services in Australia; acquired a company with an AFSL for engaging in financial services in Australia; and the TCSP license and approval to provide company and trust service business in Hong Kong. In April 2021, we launched our first self-developed proprietary cryptocurrency exchange platform Ebonex and has launched another self-developed proprietary cryptocurrency exchange platform, also branded Ebonex, in Australia in February 2022. We are also in the process of obtaining relevant licenses and approvals for our subsidiaries in Singapore, Hong Kong, the Bahamas and New Zealand. If and once obtained, the licenses will allow us to operate cryptocurrency exchanges in such countries. Meanwhile, we are focused on application development, regulatory compliance and talent recruitment to ramp up execution of our new business plans for the expansion in these countries. We expect such ramp-up will support our future operations and our compliance with local rules and regulations. Our expenses to date to implement our new business plans, including establishing in Canada, Australia, Singapore, Hong Kong, the Bahamas, New Zealand and the United States, have been mainly on server rentals, application development, regulatory compliance, talent acquisition and offices rentals to set up cryptocurrency exchanges in the abovementioned countries. There is no guarantee that we will receive any additional required approvals and licenses for our proposed business in these countries in a timely manner or on commercially reasonable terms, or at all, or that we will commence the proposed business as planned, or at all. If our operations at these countries or our execution of business plan proves incorrect, we may incur additional expenses or losses.

Any restrictions imposed by a foreign government could force us to restructure operations, perhaps significantly, which could result in significant costs and inefficiencies that harm our profitability, or even cause us to cease operations in the applicable jurisdiction. Cryptocurrency is a recent technological innovation and the regulatory schemes to which cryptocurrency and the related exchange may be subject have not been fully explored or developed by foreign jurisdictions. Thus, cryptocurrency faces an uncertain regulatory landscape in many foreign jurisdictions. Various foreign jurisdictions may from time to time adopt laws, regulations or directives that affect our cryptocurrency businesses. Due in part to its international nature and the nascent stage of regulation, along with the limited experience with cryptocurrency, and language barriers between international journalists, translators and regulators, information regarding the regulation of cryptocurrency in various jurisdictions may be incomplete, inaccurate or unreliable. As both the regulatory landscape develops and journalistic familiarity with cryptocurrency increases, mainstream media's understanding of cryptocurrency and the regulation thereof may improve. As we enter into the markets in Australia, Singapore, Hong Kong, the Bahamas, New Zealand and the United States, we expect to continue to monitor the local regulations regarding cryptocurrency and financial service platforms and retain local regulatory counsels. See "Item 3. Key Information—D. Risk Factors—Risks Relating to Our Cryptocurrency, Blockchain and Mining Related Businesses—The current regulatory environment in foreign markets, and any adverse changes in that environment, could have a material adverse impact on our blockchain products business and our cryptocurrency exchange and financial service platform businesses," "Item 3. Key Information—D. Risk Factors—If we are unable to manage our growth or execute our strategies effectively, our business, results of operations and financial condition may be materially and adversely affected" and "Item 3. Key Information—D. Risk Factors— We may not successfully develop, market or launch any future cryptocurrency exchanges or online brokerages or continue operating our existing cryptocurrency exchanges" for details of the associated risks.

Our Value Proposition

We design fabless ICs in the front-end and back-end, which are the major components of the IC product development chain. We currently dedicate our technology and expertise in IC design for our blockchain products business and telecommunication products business.

The following diagram illustrates the general process of IC design and production for our blockchain and telecommunications products businesses:



We independently design and develop our blockchain and telecommunications products in-house, including the design of proprietary ASIC chips for our cryptocurrency mining machines. Front-end IC design and back-end IC design are the key parts of the IC design process. We determine the parameters of the IC chip, establish the basic logic of the design, map out the initial plan for the physical layout, and conduct back-end verification on the design. Our strong design capability has ensured that we have achieved a 100% tape-out success rate to date. We then closely partner with industry-leading third-party suppliers to fabricate, test and package the IC products we design. Leveraging our long-established experience and know-how in producing telecommunications products, we have also established in-house production capabilities to conduct PCB assembly and system assembly for both mining machines and a wide range of telecommunications products. We believe our outstanding technical expertise and production experience in IC development chain enables us to continuously introduce ICs of higher performance and power efficiency for application in both the blockchain and telecommunications fields.

Currently, we have two self-developed cryptocurrency exchange platforms operating under the brand name Ebonex, and we support users to buy and/or sell digital assets through Ebonex. Our customers include retail users and institutions. We aim to establish a global blockchain financial service platform, with services to be provided to each countries and regions in which we operate.

Ebonex is based on our self-developed trading system, which provides a highly available, high-concurrency trade match service system. We have embedded robust anti-money laundering (“AML”), Know Your Customer (“KYC”), Know Your Transaction (“KYT”) and asset custody third-party services in Ebonex to protect user assets and ensure that users’ access meets regulatory standards. We believe users can experience stable system services, convenient deposits and withdrawals, smooth trading and diversified digital asset services on Ebonex. We are committed to building a world-leading comprehensive digital asset service platform to meet the asset service needs of cryptocurrency asset users worldwide while complying with the current laws, regulations, and legal standards to which we are subject, as well as additional laws, regulations and legal standards that may be introduced in the future.

Our Blockchain Products Business

Our blockchain products business is primarily comprised of Bitcoin mining machine sales, mining machine hosting services and cryptocurrency exchange services.

Bitcoin Mining Machine Products

Our technology and expertise in ASIC applications is primarily dedicated to our blockchain products business, which consists predominantly of the design, development, production and sales of our proprietary ASIC-based Bitcoin mining machines under the Ebit brand. Our Ebit Bitcoin mining machines feature our proprietary ASICs, and the ASICs are integrated with components procured by us.

Since the beginning of our ASIC designing business, we have successfully and independently completed the design of 14nm, 12nm, 10nm, 8nm, 7nm and 6nm ASIC chips. Our existing ASIC chips are targeted at solving Bitcoin’s cryptographic algorithms incorporating the latest technology. Since the launch of our first mining machine with 10nm ASIC chips in 2017, we have introduced mining machines with second generation 10nm ASIC chips in 2019 and mining machines with 8nm ASIC chips in 2020; and we have successfully and independently completed the design of 6nm ASIC chips and the design of a chip for simultaneous Litecoin and Dogecoin mining in 2021. We currently focus on developing our proprietary 5nm ASIC chips and mining machines for non-Bitcoin cryptocurrencies such as Ethereum. We will continue to devote significant resources to new innovations applying blockchain technology.

We have also designed our hardware architecture to optimize the computing power of our ASIC chips while efficiently consuming energy. This includes incorporating heat dissipation technology, such as high-grade aluminum cases and customized heat sinks and fans. All of our mining machine products incorporate built-in controllers so they can operate as standalone devices. Our products utilize automatic cluster management software system for intelligent tracking and monitoring of the operation status of the device, which provides convenience for large-scale set-ups with multiple devices. Our products are also configured to allow for simplified software and internet connection setup, thereby reducing installation and configuration time.

We continuously introduce new series of Bitcoin mining machines incorporating the latest development of ASIC design and process technology. We also produce and sell Bitcoin mining machine accessories and offer ancillary service to our customers to assist their operations.

Existing Mining Machine Products

The table below describes the key mining machine products that we have sold:

Product	Release Date	Type of ASICs	Hash Rate
Ebit E9+	December 2016	14 nm	9 TH/s
Ebit E10	December 2017	10 nm	18 TH/s
Ebit E9.1	May 2018	10 nm	14 TH/s
Ebit E9.2	April 2018	10 nm	12 TH/s
Ebit E9.3	May 2018	10 nm	16 TH/s
Ebit E9.5	June 2019	10 nm	11.5 TH/s
Ebit E9i	July 2018	10 nm	13.5 TH/s
Ebit E9i+	September 2018	10 nm	13.5 TH/s
Product	Release Date	Type of ASICs	Hash Rate
Ebit E10.1	April 2019	10 nm	18 TH/s
Ebit E10.2	May 2019	10 nm	27 TH/s
Ebit E10.3	June 2019	10 nm	24 TH/s
Ebit E10.5	June 2019	10 nm	18 TH/s
Ebit E12	May 2019	10 nm	44 TH/s
Ebit E15	November 2020	8 nm	60 TH/s
Ebit E9.6	January 2021	10 nm	12 TH/s
Ebit E10B	April 2021	10 nm	32 TH/s
Ebit E10B	April 2021	10 nm	28 TH/s
Ebit E10C	April 2021	10 nm	25 TH/s

The total volume of Bitcoin mining machines we sold was 290.0 thousand, 11.2 thousand and 67.7 thousand in 2019, 2020, and 2021, respectively. The total computing power of Bitcoin mining machines we sold was 5.9 million Thash/s, 0.5 million Thash/s, and 1.5 million Thash/s in 2019, 2020 and 2021, respectively. The average selling price per hash rate of Bitcoin mining machines we sold was US\$15, US\$16 and US\$27 in 2019, 2020 and 2021, respectively.

Mining Machine Products Under Development

Our current mining machine products are designed for Bitcoin mining. We are in the process of developing ASIC chips for a new generation of mining machines for Bitcoin mining, as well as mining machines for other cryptocurrencies. The table below shows products we have currently in development.

Project	Description	Current Status
<u>Bitcoin mining machines</u>		
8 nm ASIC chip mining machine*	ASIC chip with higher hash rate than 10 nm ASIC chip	Design completed in 2019
7 nm ASIC chip mining machine*	ASIC chip with higher hash rate than 10 nm ASIC chip and 8 nm ASIC chip	Design completed in 2019
6 nm ASIC chip mining machine*	ASIC chip with better performance and efficiency than 7 nm ASIC chip	Design completed in 2021
5 nm ASIC chip mining machine	ASIC chip with better performance and efficiency than 7 nm ASIC chip	Under design
<u>Other cryptocurrency mining machines</u>		
Mining machines for Litecoin/SimpleChain and DASH*	Each designed specifically for Litecoin/SimpleChain or DASH mining	Design completed in 2018
Mining machines for Monero, Zerocash, Siacoin/Decred and Bytom*	Each designed specifically for Monero, Zerocash, Siacoin/Decred or Bytom mining	Design completed in 2019
Mining machines for simultaneous Litecoin and Dogecoin mining*	Designed specifically for simultaneous Litecoin and Dogecoin mining	Design completed in 2021
Mining machines for Ethereum	Each designed specifically for Ethereum mining	Under design

* We will further determine the timeline for launching these products based on market demands and conditions.

Mining Machine Hosting Services

We began our mining machine hosting services in 2017 to diversify our offerings. Our mining machine hosting services enabled customers to operate their mining machines remotely in a cost-effective manner. We helped customers, who had purchased mining machines from us, set up and configure their mining machines and monitored the daily operation of these mining machines on our hosting site where the utility cost was relatively low. We also provided routine maintenance services to our customers.

We entered into separate service agreements with buyers of our mining machines for the hosting services. We charged customers a hosting services fee, which is negotiated case by case and usually in proportion to the utility consumption of each customer's mining machines that we host. We have halted all mining machine custody services in the PRC at the end of April 2021, and we are in the process of locating and/or constructing compliant mining farms in North America and Europe. Before we ceased such business, the revenues from our mining machine hosting services were US\$2.8 million in 2021. The average service fee per kWh was generally US\$0.04 per kWh in 2021.

Our Cryptocurrency Exchange Business

In April 2021, we launched our first self-developed proprietary cryptocurrency exchange platform Ebonex and in February 2022, we launched another self-developed proprietary cryptocurrency exchange platform, also branded Ebonex, in Australia. We plan to launch additional trading platforms in the jurisdictions into which we are expanding. All core technologies of Ebonex are independently and completely developed by us with our own independent intellectual property rights. Ebonex strictly prohibits domestic resident users in China, as well as individuals and institutions in sanctioned countries, to open accounts and trade. As of December 31, 2021, no revenue has been generated from the operations of Ebonex.

We invest heavily in compliance tools. In addition to robust AML, KYC, and KYT programs, we have introduced professional service providers, such as real-time account reconciliation platforms, digital asset custodians, biometric digital KYC platforms, financial market data and infrastructure providers, and liquidity providers, in Ebonex to meet regulatory requirements, protect user assets and ensure smooth trading experience. These features also allow us to quickly adapt to emerging threats in the crypto economy, build scenarios and typologies around specific transaction types, and gives us the flexibility to support new products and services.

Our ultimate objective through our Ebonex platform is to provide secure, fast, efficient and stable multi-currency and multi-mode trading services to a global audience. We have increased our investment in marketing and sales, and have assembled a dedicated marketing and growth team in our regions of operation. We expect that we will obtain more cryptocurrency exchange users and institutional users in the countries and/or regions where we operate in the future. With the expansion of our operations and marketing activities, we have begun to attract users and generate revenue from user transactions.

Our Telecommunications Business

We entered the telecommunications business in 2010. Our communications network devices mainly focus on the access layer, which is the entry point for providing access to the telecommunications network for end users. Our products are broadly grouped under the following product lines, as well as related parts and accessories:

- *Fiber-Optic Communication Access Devices.* Our fiber-optic communication access devices are mainly used by telecommunications service providers in access network server rooms. Our fiber-optic communication access devices are also designed to provide enterprises with a differentiated smart terminal solution for communication access with a view to fulfilling client needs in terms of cost and user experience. The main products we offer under our fiber-optic communication access devices product line include multiprotocol label switching (MPLS) fiber-optic access network devices, multi-service access platform (MSAP) integrated business access devices and wavelength-division multiplexing (WDM) fiber-optic devices.
- *Enterprise Convergent Terminals.* Our enterprise convergent terminal products are designed to provide complete informatization service for enterprises, from smart terminal to smart pipeline and cloud computing. The main products we offer under our enterprise convergent terminal product line include gigabit passive optical network (GPON), enterprise cloud gateway devices, Industrial Internet of Things (IoT) access devices and business enterprise smart wireless access devices.

Our Customers

Blockchain Products Business

Our customer base for sales of our Ebit mining machines is comprised of both enterprises and individual buyers. We generally do not enter into long term agreements with our mining machine customers. Sales are typically made on one-off sales contract or purchase order bases. Generally, we either require prepayment in full or offer alternate payment plans for customers to prepay a certain percentage with the remainder to be settled after delivery of the products and we have extended credit sales to certain customers since 2018. Substantially all of the customers of our mining machine hosting services before we halted such services in the PRC were customers who have purchased our mining machines.

In 2019, 2020 and 2021, a significant portion of our mining machine customers were located in China. All of our mining machines are distributed through direct sales. Nevertheless, we do not restrict resales of our mining machine products by our customers, so some of our customers in China may resell purchased products to end users or other buyers located in overseas markets. Our revenues generated from sales to customers in China represent 87.5%, 99.8% and 100.0% of our total revenues in 2019, 2020 and 2021, respectively. Our revenues from sales to customers outside of China/sales of mining machines delivered to overseas end users, such as customers/users in North America, Central Asia and the Southeast Asia, represent 12.5%, 0.2% and 0.0% in 2019, 2020 and 2021, respectively.

Our blockchain product business also includes cryptocurrency exchange business. Our target users mainly include retail users as well as institutions. By providing them with digital asset services and infrastructure, we generate revenue through fees and commissions including transaction commissions, handling fees, transaction spreads, system implementation fees, revenue sharing, and service fees.

Since our cryptocurrency exchange is in the early stages of operation and has only had a short history, as of December 31, 2021, we have not generated revenue from such operations. However, we believe that with our experience in the blockchain and cryptocurrency industry, continuous research and development, and technology accumulation, as well as the expansion of our marketing and operation activities, we will further drive our competitive position and obtain relevant operating revenue in the near future.

Telecommunications Business

Our telecommunications products are mainly sold in China under the brand name “EBANG” through direct sales. Our customer base for our telecommunications products primarily includes major telecommunications service providers in China.

We do not have any long-term or exclusive agreement with our telecommunications product customers. Sales to our enterprises customers are generally made on one-off sales contract or purchase order bases with a credit period of one to nine months. We generally enter into framework agreement with the major telecommunications service providers in China with a credit period up to one year. We typically require payments to be made in installments upon delivery of the products. We encourage our sales representatives to negotiate shorter credit periods to reduce our credit risk.

Research and Development

We have historically and continue to place strong emphasis on research and development. We consider research and development capability as a crucial factor to our success and our ability to develop innovative and competitive products to meet the technological requirements of customers. As of December 31, 2021, our research and development team comprised of 107 employees, or approximately 40.8% of our total number of employees, based across our offices in China. Our research and development expenses were US\$6.6 million in 2021.

Our research and development team is overseen by our Chairman and CEO, Mr. Dong Hu. Within our research and development team, we have a specialized ASIC chip design team focused on designing ASIC chips for the development of cutting-edge mining machine products and for other blockchain research and development projects that utilize ASIC chips. The other members of our research and development team focus on non-ASIC aspects of mining machine products, telecommunications products and new applications for blockchain technology.

Within our blockchain product business, we have established a professional research and analysis team to track and analyze the development and changes of users, and digital asset market changes to support our blockchain product business development. Through such team's tireless efforts, we launched our self-developed cryptocurrency exchange platform Ebonex, to provide secure, fast, efficient and stable trading services in multiple currencies and modes for users thereof.

As part of our business strategy to expand into other markets, in addition to developing more advanced mining machines for cryptocurrency mining, we are currently undertaking several new research and development projects in the blockchain technology sector. Those projects include online brokerage and custody operations based on cryptocurrency exchanges and digital asset technology infrastructure solutions including Software as a service ("SaaS") and over-the-counter services. Our research and development team tracks, evaluates and anticipates the latest industry developments and customers' needs in determining our research and development project focus and new product roadmap. These initiatives enable us to continuously improve our research and development capabilities and technology reserves in blockchain and digital assets, and transform them into competitive products and services.

Production

Our Fabless Model

We do not directly manufacture ICs used for our products. Instead, we utilize what is known as a fabless model, whereby we conduct front-end and back-end designs of our IC chips, which are then manufactured, packaged and tested by world-class wafer foundry and OSAT partners we cooperate with. Under the fabless model, we are able to leverage the expertise of industry leaders that are certified by the ISO in such areas as fabrication, assembly, quality control and assurance, reliability and testing. In addition, the fabless model allows us to avoid many of the significant costs and risks associated with owning and operating various fabrication and packaging and testing facilities. Our fabrication partner is responsible for procurement of the majority of the raw materials used in the production of our ICs. As a result, we can focus our resources on research and development, product design and additional quality assurances.

Wafer Fabrication

We primarily work with an IC fabrication partner to ascertain their production resource that can be allocated to us before we place an order according to our business need. After we place our orders, and once they accept our orders, we are required to prepay in full in order to secure production capacity. Subject to sufficient production capacity, wafers were delivered in an average of approximately three to four months from the time we placed our order prior to the global outbreak of COVID-19; however, since such outbreak, we have experienced production capacity shortages and shipment delays from the IC fabrication partner.

We principally purchased wafers for our ASIC chips from Samsung, and also began to work with TSMC in 2017 on the development of a new ASIC chip and established a relationship and are in discussions with two other major wafer foundries in order to diversify our supplier sources and to gain access to additional capacity for future ASIC chips. We will seek to procure wafers from either or both of these two wafer foundries in the event that our current suppliers are unable to accept or fulfil our purchase orders or otherwise continue supply us wafers. While we continue to seek opportunities to improve our supply chain, we face concentration risks, as we currently depend on two suppliers for our wafers. See "Item 3. Key Information—D. Risk Factors—Risks Relating to Our Business and Industry—we rely on a limited number of third parties to fabricate our ASIC chips, which are the core technology used in our mining machines."

Packaging and Testing

After the wafers are manufactured, they are shipped to an OSAT company for packaging into IC chips, which are then tested to ensure the required quality assurance procedures are all met. Properly tested IC chips are then delivered to our production facilities for mounting and assembly.

We procure IC packaging and testing services from leading OSAT companies, including STATS ChipPAC. In 2018, in order to keep up with our increasing production demand, we began working with PTI. STATS ChipPAC is controlled by Jiangsu Changjiang Electronics Technology Co., Ltd. and its various subsidiaries, or JCET, which along with PTI are among the largest OSAT companies in the world.

Assembly Plant

We have in-house capabilities to produce our blockchain and telecommunications products at our production facilities. These include PCB assembly to create the mounted circuit boards once the IC chips have been manufactured, and general assembly to integrate the circuit boards with other components and parts for assembling the final products.

We procure certain raw materials, components and parts, such as electronic components, metal cases, cables, antennae and packaging materials, which are used by us for the assembly of PCBs and our final products. We typically maintain three or four different suppliers for most of our raw materials, components and parts. We generally place purchase orders with our suppliers based on our estimated purchase orders and production schedule. The lead time for procurement was generally one to four months prior to the global outbreak of COVID-19; however, since such outbreak, we have experienced raw material shortages and shipment delays from our suppliers. We are typically required to pay our suppliers before or upon delivery of the raw materials, components and parts. We closely monitor the quality of all raw materials provided by our suppliers to ensure that all raw materials comply with the stringent requirements of our customers. For more information, see “Item 4. Information on the Company—B. Business Overview—Quality Control.”

We outsource some of our production to third-party subcontractors in order to meet additional capacity needs. We currently maintain a working relationship with approximately four to five third-party subcontractors for PCB and general system assembly. The terms of our subcontracting arrangement are set out in individual written work orders, and the amount of work outsourced is determined on an as-needed basis. To maintain our product standards, we institute strict quality control measures with our third-party subcontractors. These measures include requiring product testing at various stages of production and utilizing our proprietary software to record and report the quality testing results.

Production Facilities

We operate one production facility in Hangzhou, Zhejiang with a gross floor area of 7,344 square meters. It houses three SMT production lines and two general assembly lines, as of December 31, 2021. Our production facility in Wuhai, Inner Mongolia with a gross floor area of 14,200.26 square meters ceased operations by the end of April 2021 and used to house one SMT production line and one general assembly line.

SMT production lines are responsible for PCB assembly, which is a key process for both our mining machine and telecommunications products. The maximum output volume of our in-house production facilities is largely dictated by the production capacity of our SMT production lines in Hangzhou. The average utilization rate of our SMT production lines was 81.7%, 40.1% and 34.7% for 2019, 2020 and 2021, respectively.

We outsource some of our SMT production activities to third-party subcontractors in order to meet additional capacity needs. For the years ended December 31, 2019, 2020 and 2021, our outsourced productive SMT production volume amounted to approximately 69.2%, 8.4% and 27.4% of our total in-house and outsourced productive SMT production volume, respectively.

We plan to expand our production capacity by constructing a new production facility in Yuhang District, Hangzhou and installing two additional new SMT production lines in place of the two older SMT production lines. We commenced the construction of our new production facility toward the end of 2019 and expect to commence its operation by the first half of 2022.

Quality Control

We place great emphasis on the importance of quality control in every aspect of our business. We produce our products in accordance with our strict quality control system and quality standards. We obtained all the material quality control certifications in the PRC for our products or production facilities. From sourcing of raw materials, production, delivery and installation, each stage of the production process is subject to our quality control procedures for both in-house production and outsourced third-party production.

We have implemented various quality-control checks into our production process and the IC fabrication process by our production partners. In addition, we provide timely and effective after-sales services and support to our users. We have quality control personnel based at each of our production facilities. They are part of our production department and are led by our quality control supervisor. The quality control team is primarily responsible for monitoring the quality of procurement raw materials, production process and finished products and supervising the product testing. We have our own on-site quality control staff to inspect each stage of the production process. The quality control staff inspects semi-finished products at various stages of the production process to ensure their compliance with our internal quality control standards and measures. This helps us detect defects during the production process and take steps to rectify those defects, where appropriate. For outsourced production, we require that all third-party contractors utilize a software system we provide to track, test and record each product made for us using unique identifying barcodes on the products so that we can review the testing results of their products. Our third-party contractors also agree to allow us to conduct sample testing of their products and random spot checks of their facilities. We require final testing on the products before their delivery to our customers to ensure the products meet the specifications and requirements of its customers.

After-Sales Services and Warranties

We provide installation services of communication network devices to our customers depending upon the products purchased and the type of customer. Our mining machines are configured by the end-users using our instruction manual.

For our mining machines, we provide a six-month warranty for the overall machine and a one-year warranty for the power supplies. During the warranty period, we provide maintenance and after-sale services, which include technical support, equipment repair and maintenance. In connection with warranty service, the customer will courier the hardware to us, and we will ship the machine back to the customer once repairs are completed. Our service hotline is available seven days a week between 8:30 a.m. to 10:30 p.m. and we offer on-site maintenance services as needed.

For our telecommunications products, we typically provide a 12 to 36-month warranty depending on the type of customer and product. During the warranty period, we provide maintenance and after-sale services, which include technical support, system and network testing, equipment repair and maintenance. Our service hotline is available seven days a week between 8:30 a.m. to 11:00 p.m. and we offer on-site maintenance services as needed.

Sales and Marketing

Historically, the marketing of our blockchain products was done through word of mouth, press releases of our product launches and exhibitions when we launch a new product. Certain of our available products are also advertised on our website which is updated periodically. From time to time, we maintain a presence on social media in order to raise awareness of our brand. We have not relied heavily on sales force for advertising and marketing of our blockchain products, as most of our customers approach us proactively.

For our telecommunications products, we obtain supplier contracts through bidding processes held by the major telecommunications service providers in China, in order to become an approved supplier. We set up sales offices in the provinces with large distribution scale according to the winning bids. Our sales offices also serve the surrounding provinces to form an effective sales network.

Competition

We compete primarily with the other major mining machine producers, and potentially with any new players which may overcome the high barriers of entry, in particular in technology and access to wafer foundry capacity. We seek to compete in technology and service quality with our competitors.

Our competitors also include many well-known domestic and international players in blockchain and cryptocurrency industry, ranging from large, established financial incumbents to smaller, early-stage financial technology providers and companies native to the crypto economy, such as decentralized exchanges. We expect that competition in the cryptocurrency industry will continue to be intense as we compete not only with existing players that have been focused on Bitcoin mining, cryptocurrency farming and cryptocurrency trading related service providers, but also new entrants that include well-established players in the semiconductor industry, and players who were not predisposed to this industry in the past. We also expect that we may face competition from existing and new non-cryptocurrency blockchain application providers. In the IC industry, we expect to face competition from existing and new players that are more established than us. Some of these competitors may also have stronger brand names, greater access to capital, longer histories, longer relationships with their suppliers or customers and more resources than we do.

Intellectual Property

We rely on a combination of copyright, trademark, patent and other proprietary technology and contractual restrictions on disclosure to protect our intellectual property rights. We enter into relevant confidentiality agreements or provisions with our employees and certain customers and suppliers and rely on such confidentiality agreements or provisions and other protection of our technical know-how to maintain our technical advantages in our products and design.

As of the date of this annual report, we have registered 54 patents, 9 IC layout designs and 61 software copyrights, with an additional 29 patent applications in the PRC. Our key intellectual property achievements include multiple generations of ASIC chips.

On November 27, 2020, we obtained an exclusive license of a key patent in the Bitcoin mining industry, which license granted us with the exclusive right to use the patent in South Korea and export the product from South Korea to other countries. On January 1, 2022, we obtained another license which granted us with the right to use the patent in the United States and export the product from the United States to other countries. The core of this patent is AsicBoost, a method that can increase performance of Bitcoin mining by about 20%. The performance gain is achieved through a high-level optimization of the Bitcoin mining algorithm which allows for drastic reduction in gate count on the mining chip.

Despite our efforts to protect our proprietary rights, unauthorized parties may attempt to copy or otherwise obtain and use our technology. Monitoring unauthorized use of our technology is difficult and costly, and we cannot be certain that the steps we have taken will prevent misappropriation of our technology. From time to time, we may have to resort to litigation to enforce our intellectual property rights, which could result in substantial costs and diversion of our resources.

Through the use of licensing arrangements, we utilize various technologies, software and other intellectual property that were developed by third parties. During the course of product design and manufacturing, we incorporate certain third-party technologies or implement technical or commercial standards, practices or intellectual property which require licenses from wafer foundries. These licenses allow us to use or access the wafer foundries' technologies and intellectual property rights in connection with the making of photomask for our ASIC chips. We have also purchased licenses for various design software from third parties to conduct our IC chip design. These license grants were usually perpetual and irrevocable on a project-by-project basis. Third parties may initiate litigation against us alleging infringement of their proprietary rights or breach of a licensing agreement or declaring their non-infringement of our intellectual property rights. If third parties prevail on such claims, and if we fail to develop non-infringing technology or license the infringed or similar technology or cure the breach on a timely basis, our business could be harmed. Moreover, even if we are able to license the infringed or similar technology, license fees could be substantial and may adversely affect our results of operations.

See "Item 3. Key Information—D. Risk Factors—Risks Relating to Our Business and Industry—We may face difficulties in protecting our intellectual property rights" and "Item 3. Key Information—D. Risk Factors—Risks Relating to Our Business and Industry—Third parties have claimed and may, from time to time, assert or claim that we infringed their intellectual property rights and any failure to protect our intellectual property rights could have a material adverse impact on our business."

Insurance

Besides the PRC government-mandated social insurance and housing provident fund schemes and motor vehicle insurance, we do not maintain any insurance covering our properties, equipment, inventory or employees, and we do not carry any business interruption or product liability insurance or any third-party liability insurance to cover claims in respect of personal injuries or any damages arising from accidents on our properties or in relation to our operations. We believe that our insurance coverage is adequate and is in line with industry practice.

Environmental Matters

We have received GB/T24001-2016/ISO 14001:2015 environmental management system certification, which is valid until September 11, 2024 and subject to renewal. Due to the nature of our business, our operational activities do not directly generate industrial pollutants, and we did not incur significant cost for compliance with applicable environmental protection laws and regulations in 2019, 2020 and 2021.

Legal Proceedings

We may from time to time be subject to various legal, arbitration or administrative proceedings arising in the ordinary course of business, such as proceedings in respect of disputes with suppliers or customers and labor disputes. As of the date of this annual report, we are party to the following legal, arbitration or administrative proceedings, regulatory inquiries or investigations made or pending that we believe are material to our business and results:

On January 29, 2019, we filed a civil action in the Hangzhou Intermediate People's Court against one of our customers. The defendant had purchased from us, and we had delivered, 90,000 mining machines for a total price of RMB453.6 million (approximately US\$65.1 million) pursuant to an executed sales contract. The defendant has paid RMB380 million (approximately US\$54.5 million), and we were seeking the payment of the balance of RMB73.6 million (approximately US\$10.6 million) plus interest and legal expenses. On August 15, 2019, the defendant filed a counterclaim against us, primarily alleging incompleteness of delivery of products and seeking return of the payment of the alleged undelivered products plus interest and legal expenses. On October 15, 2020, the Zhejiang High People's Court ruled that this case shall be tried in the Hangzhou Intermediate People's Court. On December 30, 2021, the court dismissed the counterclaim and rendered a judgement in our favor where it held the defendant should pay the outstanding balance of RMB73.6 million (approximately US\$10.6 million) within 10 days of the date of such judgement. On March 22, 2022, we received a decision from Zhejiang High People's Court that the defendant's appeal was deemed to be automatically withdrawn due to the defendant failed to pay the case acceptance fee.

On March 18, 2019, we filed a civil action in the Baoshan Intermediate People's Court against one of our customers. The defendant had purchased from us, and we had delivered, 10,000 mining machines for a total price of RMB50.4 million (approximately US\$7.2 million). The defendant has paid RMB20 million (approximately US\$2.9 million), and we were seeking the payment of the outstanding balance of RMB30.4 million (approximately US\$4.4 million). On September 23, 2019, the defendant filed a counterclaim against us, primarily alleging failure to deliver products and seeking return of the payment of the alleged undelivered products plus interest and legal expenses. On December 29, 2020, the court dismissed the counterclaim and rendered a judgement in our favor where it held that the defendant should pay the outstanding balance of RMB30.4 million (approximately US\$4.4 million) within 30 days of the date of such judgement. On January 12, 2021, we received a notice from the Baoshan Intermediate People's Court that the defendant had appealed such judgement to Yunnan High People's Court. On January 29, 2022, Yunnan High People's Court reversed the judgement made by Baoshan Intermediate People's Court dated December 29, 2020 and sent the case back to Baoshan Intermediate People's Court for retrial. As of the date of this annual report, the case is still pending before the high court.

On November 22, 2019, we brought a claim in the Hangzhou Intermediate People’s Court against one of our customers and the ultimate beneficial owner of the mining machines in connection with our sales of 80,000 mining machines for an amount of RMB 403.2 million (approximately US\$57.9 million) pursuant to a sales contract and a supplementary contract, alleging that the defendants only paid RMB12.5 million (approximately US\$1.8 million) of the total balance and seeking full payment of the outstanding RMB282.2 million (approximately US\$40.5 million) balance plus interest and hold both defendants jointly and severally liable. We subsequently withdrew such claim in order to amend the pleading and add one more defendant. On December 8, 2020, the Hangzhou Intermediate People’s Court approved such withdrawal. On December 24, 2020, we filed a new claim in the Hangzhou Intermediate People’s Court based on the same cause of action. On August 23, 2021, an agreement between the Company, the defendants, the third party, and the guarantor for the third party, were reached and have come into effect following a mediation by the court. The result of mediation is as follows:

- All parties confirmed that the Company has delivered 80,000 mining machines involved in this case, of which 24,000 mining machines have been paid for. The rest of 56,000 mining machines will be paid by the third party in the amount of RMB272 million. On August 20, 2021, the third party paid RMB20 million. The third party will pay the remaining in installments as follows: (i) RMB10 million by September 15, 2021, (ii) RMB76 million by December 31, 2021, (iii) RMB136 million by May 30, 2022, and (iv) RMB30 million by July 31, 2022.
- If the third party fails to make the payment in full and on time in any such installment, the Company has the right to directly apply to the People’s Court for enforcement of all the outstanding payments and liquidate damages of the third party. The guarantor assumes joint and several liabilities for all the aforementioned debts of the third party.
- All parties confirmed there is no other disputes related to this sales contract. The defendant and the third party released and discharged the Company of and from any and all liabilities and claims related to the sale of the mining machines.

On November 19, 2019, we filed a civil action in the High Court of the Hong Kong Special Administrative Region, Court of First Instance against a then-major supplier, alleging breach of contract for delivering defective products and seeking damages in the sum of US\$25.1 million plus interest and costs. As of the date of this annual report, the case is still under review by the court.

On April 8, 2021, a securities class action lawsuit was filed against the Company and its Chief Executive Officer and Chief Financial Officer captioned Tommie Zaker v. Ebang International Holdings Inc., Dong Hu, and Lei Chen (Case No. 1:21-cv-03060-KPF) (U.S.D.C. S.D.N.Y.) (the “Litigation”). The complaint in the Litigation, which relied extensively on a report published online on April 6, 2021 by third party Hindenburg Research, a widely-known short-selling firm, alleged false or misleading statements and omissions in violation of United States securities laws. The Litigation was on behalf of persons that purchased or acquired our Class A ordinary shares between June 26, 2020 and April 5, 2021, a period of volatility in our Class A ordinary shares, as well as volatility in the price of Bitcoin. A second class action lawsuit was filed on April 20, 2021, substantially identical, entitled Konstantin Zeva v. Ebang International Holdings Inc., Dong Hu, and Lei Chen (Case No. 2:21-cv-09859-JXN-LDW) (U.S.D.C. N.J.) (the “NJ Litigation”). On July 23, 2021, the lead plaintiff in the NJ Litigation filed a Notice of Voluntary Dismissal, which dismissed all claims in the NJ Litigation. On July 29, 2021, Judge Julien Xavier Neals signed an Order confirming the voluntary dismissal and closing the NJ Litigation. On October 1, 2021, the lead plaintiff in the Litigation filed a Notice of Voluntary Dismissal, which dismissed all claims in the Litigation. On October 4, 2021, Judge Katherine Polk Failla signed an Order confirming the voluntary dismissal and closing the Litigation.

REGULATION

Regulatory Overview of the PRC

We are engaged in the research and development, production and sales of blockchain and telecommunications products in the PRC. The following sets forth a summary, which does not purport to be complete, of the relevant PRC regulatory authorities and PRC laws, regulations and government policies that are applicable to our business operations in the PRC.

Competent Regulatory Authorities

The Ministry of Industry and Information Technology of the PRC, or the MIIT, and its departments are in charge of the industrial and information technology sectors at the national level. The MIIT formulates and directs the implementation of industrial sector planning, industrial policies and standards; monitors the daily operations of industrial sector; promotes the development and independent innovation of major technical equipment; manages the communications industry, guiding and advancing the construction of information technology infrastructures; and coordinates the safeguarding of national information technology security, while in charging of the approval of network access licenses (including trial), telecommunications business operation licenses, specifications and standards for organizational implementation software and system integration services, and radio transmission equipment type approval certificates. The local Commissions of Economy and Information Technology are the competent authorities in charge of the industrial and information technology sectors at the local level.

The General Administration of Quality Supervision, Inspection and Quarantine of the PRC is in charge of mandatory product certification activities, and the Certification and Accreditation Administration of the PRC, or the CNCA, is in charge of the organization, implementation, supervision, management and overall coordination of mandatory product certification activities at the national level. The local Quality and Technology Supervision Bureaus and various Entry and Exit Inspection and Quarantine Offices are responsible for the supervision, management and enforcement of mandatory product certification activities in their relevant local areas.

The National Copyright Administration of the PRC is in charge of the management of software copyright registration. The Copyright Protection Center of China and its local software registration offices are responsible for software registration.

The MOFCOM and its local bureaus are responsible for supervising and managing the establishment of overseas companies for foreign investment.

The NDRC and its local bureaus are responsible for providing macro guidance, comprehensive services and overall supervision over outbound investments.

The General Administration of Customs of the PRC, or the PRC Customs, and its local bureaus are responsible for the supervision of import and export trade, registration of customs declaration enterprises, approvals of bonded premises, and other relevant matters.

SAFE and its local bureaus are responsible for the supervision and management of foreign exchange receipts and payments or foreign exchange operational activities carried out by PRC institutions and individuals, and foreign exchange receipts and payments or foreign exchange operational activities carried out in the PRC by foreign institutions and individuals.

The State Administration of Work Safety and its local bureaus are responsible for the supervision and management of work safety activities.

The Ministry of Ecology and Environment of the PRC and its local bureaus are responsible for the management of environmental protection activities, while the local bureaus also supervise and manage the protection of resources, prevention of pollution and other matters on environmental protection in the local areas.

The China Semiconductor Industry Association is a national industrial and non-profit social organization, consisting of entities, experts and other related enterprises and institutions engaged in the manufacturing, design, scientific research, development, operation, application and education of integrated circuits, semiconductor discrete devices, semiconductor materials and equipment.

Regulations and Government Policies Relating to the IC and Blockchain Industries

Pursuant to the Circular on Prevention of Risks Associated with Bitcoin, or the Circular, jointly promulgated by the People's Bank Of China, or the PBOC, the MIIT, the China Banking Regulatory Commission, the CSRC and the China Insurance Regulatory Commission on December 3, 2013, Bitcoin shall be considered a kind of virtual commodity in nature, which does not have the same legal status with fiat currencies and shall not be used and circulated in the market as currency. This circular also provides that financial institutions and payment institutions shall not engage in businesses related to Bitcoin.

Pursuant to the Announcement on Prevention of Risks from Offering and Financing of Cryptocurrencies promulgated by seven PRC governmental authorities including the PBOC on September 4, 2017, illegal activities in offering and financing of cryptocurrencies, including initial coin offerings (ICOs), are forbidden in the PRC because such activities may be considered to constitute illegal offering of securities or illegal fundraising. This announcement further provides that financial institutions and payment institutions shall not engage in businesses related to cryptocurrency offering or financing transactions.

There is no prohibition under PRC laws and regulations currently in effect on the possession of Bitcoin by PRC citizens and organizations.

Purchase and running of computing hardware by PRC citizens or organizations for the purpose of Bitcoin mining in China do not violate any PRC laws and regulations currently in effect. PRC citizens and organizations are not prohibited from engaging in Bitcoin mining activities in China. Design, production, sale (including both wholesale and retail) of computing hardware used for Bitcoin mining, including BPUs, in China, or sale (including both wholesale and retail) or export of such computing hardware from China, do not violate any provisions of any PRC laws and regulations currently in effect, provided that such activities shall comply with the general regulatory rules in relation to the administration of industry and commerce registration, taxation, fire control and environmental protection and the relevant policies and requirements imposed by any PRC governmental authorities.

As demonstrated by the Circular of the State Council on Printing and Distributing Policies for Encouraging the Development of the Software and IC Industries issued on June 24, 2000, the PRC continues to enact policies encouraging new and advanced technology and supporting the software and IC industries.

On January 28, 2011, the State Council issued the Circular of the State Council on Printing and Distributing Policies for Further Encouraging the Development of the Software Industry and the Integrated Circuit Industry, or the Circular, which aims to formulate a series of policies for the purposes of further optimizing development environment for the software industry and integrated circuit industry, increasing the quality and the level of industry development and cultivating a number of influential and strong leading enterprises in these industries. The Circular addresses topics including fiscal tax policies, investment and financing policies, research and development policies, import and export policies, talent policies, intellectual property policies and market policies.

On June 24, 2014, the State Council issued the Outline for Promoting the Development of the National Integrated Circuit Industry, which highlights that great efforts shall be put on the development of the IC design industry. By focusing on the industrial chain of key areas and strengthening IC design, software development, system integration, collaborative innovation in contents and services, the goal is to drive the development of the manufacturing industry through the rapid growth of the design industry.

On June 8, 2015, the NDRC issued the Notice on Implementing Major Engineering Packages in Emerging Industries. The Notice highlights the efforts in developing IC construction infrastructures, focusing on enhancing the level of advanced technology, design industry concentration ratio and industrial chain supporting ability, selecting areas with more mature technology, good industrial base and wide application potential, and accelerating the industrialization of high performance IC products.

On May 4, 2016, the Ministry of Finance of the PRC, the SAT, NDRC and the MIIT, jointly released the Notice on Enterprise Income Tax Preferential Policies for Software and IC Enterprises. This Notice specifically stipulates the preferential policies on EIT related to IC manufacturing enterprises, IC design enterprises, software enterprises, key software enterprises within the national planning layout and IC design enterprises.

On December 15, 2016, the State Council issued the Notice of the 13th Five-Year Plan for National Informatization. This notice highlights the need to strengthen the layout of strategic innovative technologies, including blockchain technology, as well as others such as enhanced quantum communications, future networks, brain-like computing, artificial intelligence, holographic display, virtual display, big data cognitive analysis, new nonvolatile storage, driverless vehicles and gene editing.

On July 8, 2017, the State Council issued the Notice on Issuing New Generation AI Development Plan. This notice points out that advancing the integration of blockchain technology and artificial intelligence and establishing a new social credit system will significantly minimize the cost and risk of interpersonal communications.

In August 2017, the State Council issued the Guidance on Further Expanding and Upgrading Information Consumption Potential for Sustained Release of Domestic Demand, which highlights and encourages the use of open source code to develop personalized software and the launch of trial applications using new technologies such as blockchain and artificial intelligence.

In October 2017, the General Office of the State Council issued the Guiding Opinions on Actively Promoting Supply Chain Innovation and Application, which highlights and promotes the research of using emerging technologies such as blockchain and artificial intelligence to establish a credit evaluation mechanism based on supply chain.

In November 2017, the State Council issued the Guiding Opinions on Deepening Internet + Advanced Manufacturing Industry to Develop Industrial Internet which promotes the research and exploration of applications of emerging technologies in industrial Internet, such as edge computing, artificial intelligence, augmented reality, virtual reality, and blockchain technology.

On May 21, 2021, the Financial Stability and Development Committee of the State Council in China proposed to “crack down on Bitcoin mining and trading.” However, it was not until September 15, 2021, as described below, that all digital asset transactions were banned in China.

In May 2021, local governments began to issue corresponding measures in succession to respond to the central government, including Xinjiang Changji Hui Autonomous Prefecture Development and Reform Commission issuing a notice on the immediate shutdown of enterprises engaged in cryptocurrency mining on June 9, 2021.

On June 18, 2021, according to the public media report - Sichuan Provincial Development and Reform Commission and Sichuan Energy Bureau issued a notice on the shutdown of cryptocurrency mining projects with the deadline of June 25, 2021. On September 3, 2021, the newly issued Notification of Overhauling the Mining Activity of Cryptocurrency (or the Notification No. 1283) banned all new cryptocurrency operations in China and set forth penalties on a going forward basis for all of the PRC.

Pursuant to the Circular on Further Preventing and Disposing of Risks in Virtual Currency Trading and Speculation (Yin Fa [2021] No.237) promulgated by ten PRC governmental authorities including the PBOC on September 15, 2021, virtual currency-related business activities in China and the provision of services by an overseas virtual currency exchange to a Chinese resident via the Internet will be considered as illegal financial activities.

Laws and Regulations Relating to Industry Qualifications

Pursuant to the Telecommunications Regulations of the PRC issued on September 25, 2000 and last amended on February 6, 2016 and the Administrative Measures for the Network Access of Telecommunications Equipment issued on May 10, 2001 and last amended on September 23, 2014, the State implements a network access system that covers telecommunications terminal equipment, wireless communications equipment and network interconnection equipment connected to public telecommunications networks. A network access license issued by the MIIT shall be obtained for telecommunications equipment implementing network access. Without a network access license, such equipment is not allowed to be connected to a public telecommunications network for use nor to be sold domestically.

Pursuant to the Regulations on Administration of Mandatory Product Certification issued on July 3, 2009 and effected on September 1, 2009, producers, sellers or importers of products included in the product catalog shall entrust a certification agency designated by the CNCA to certify the products produced, sold or imported thereby.

Pursuant to the Regulations of the PRC for the Administration of Radio Operation promulgated on September 11, 1993, last amended on November 11, 2016 and effected on December 1, 2016, in addition to micro-power short-range radio transmitting equipment, any other radio transmitting equipment that is manufactured or imported for sale or use domestically shall apply to the state authority in charge of radio regulation for approval.

Laws and Regulations Relating to Work Safety

The Work Safety Law of the PRC, issued on June 29, 2002, last amended on June 10, 2021, and effective September 1, 2021, provides that production and operation entity must comply with the Work Safety Law and other laws and regulations related to work safety, strengthen work safety management, establish and improve a work safety responsibility system and work safety rules and systems for all employees, increase efforts to guarantee the input of funds, materials, technology, and personnel in work safety, improve work safety conditions, strengthen standardization and informatization of work safety, construct a dual prevention mechanism consisting of graded management and control of safety risks and examination and control of potential risks, improve the risk prevention and resolution mechanism, raise work safety levels, and ensure work safety. Production and business operation entities shall have the conditions for work safety as specified in this law and relevant laws, regulations, national standards or industrial specifications. Production and business operation entities that do not have such conditions are not allowed to engage in production or operation activities. Breach of the Work Safety Law of the PRC will incur various penalties, according to the specific circumstances.

Laws and Regulations Relating to Product Quality

Pursuant to the Product Quality Law of the PRC (2018 Version), issued and promulgated on February 22, 1993, last amended on and effective December 29, 2018, producers shall be responsible for the quality of their products. Product quality shall satisfy the following requirements: no unreasonable danger to personal safety and the safety of property shall exist; where there are national or industry standards for protection of health, personal safety and the safety of property, such standards shall be complied with. If the products of a producer or seller do not comply with the national or industry standards for protection of health or personal safety or the safety of property, orders shall be issued to cease their production or sale and products that have been illegally produced or sold shall be confiscated. A fine shall be imposed equal to an amount greater than the value of the products that have been illegally produced or sold (hereafter including products already sold and goods not yet sold) but less than three times the value of the products; where there is illegal income, the illegal income shall be confiscated; where the circumstances are serious, the business license shall be revoked; where the case constitutes a crime, criminal liability shall be pursued in accordance with law. If a producer or a seller is found to mix impurities or imitations into products, or to pass fake goods off as genuine ones or shoddy products as good ones or sub-standard products as standard ones, such producer or seller shall be ordered to stop production or selling; the products illegally produced or sold shall be confiscated and a fine not less than 50% of but not more than three times the value of the products illegally produced or sold shall be imposed concurrently; if there are illegal proceeds, such proceeds shall be confiscated concurrently; if the circumstances are serious, the business license shall be revoked; if the case constitutes a crime, criminal liability shall be investigated in accordance with the law.

Pursuant to the PRC Regulations on Administration of Radio Operation, issued on September 11, 1993, last amended on November 11, 2016 and effective December 1, 2016, the manufacture or import of radio transmission devices that are required to obtain approval must meet the provisions of the relevant laws, national standards and relevant regulations of the state authority in charge of radio regulation and comply with the technical standards regarding approved radio transmission devices. The approval number shall be labeled on the devices. The competent authorities for radio regulation may order anyone who violates this regulation by manufacturing or importing radio transmission devices to be sold or used domestically without obtaining the requisite approval to rectify and may impose a fine between RMB50,000 and RMB200,000; for those refusing to rectify, authorities may confiscate the radio transmission devices that have not obtained approval and impose a fine between RMB200,000 and RMB1,000,000.

Pursuant to the Regulation of Telecommunications of the PRC (2016 Version) (issued and effective on February 6, 2016), anyone who violates the provisions of this regulation in lowering product quality or performance after obtaining the telecommunications equipment network access license shall be subject to punishment by the product quality supervision authorities pursuant to the provisions of the relevant laws and administrative regulations.

Laws and Regulations Relating to Industry Standards

The Measures on Administration of Information System Integration and Service Qualification Identification (Interim) is the industrial regulation as recognized by the China Information Technology Industry Federation, targeting information systems integration and service qualification identification. In particular, information system integration qualification is the objective evaluation standard for enterprises engaged in information systems integration and service comprehensive ability and level. According to the Notice on the Management of Computer Information System Integration Industry issued by the MIIT on December 29, 2018 and became effective on the same day, information system integration qualification was expressly cancelled by the State Council in 2014.

The Technical Requirements for Access Network Multi-service Access Platform, or MSAP, is a communications industrial standard on access network multi-service access platform, stipulating MSAP system's requirements in network location and function model. In addition, the Safety of Information Technology Equipment (Part 1) and the Radio Disturbance Limits and Measurement Methods for Information Technology Equipment is the national standard of information technology equipment.

The Technical Requirements and Test Methods of Lightning Resistibility for Telecommunications Terminal Equipment is the industry standard for telecommunications equipment.

Laws and Regulations Relating to Other Business Areas

Trade

Pursuant to the Foreign Trade Law of the PRC, issued on May 12, 1994, last amended on and effective November 7, 2016, foreign trade operators engaged in import or export of goods or technologies shall file records with the foreign trade department of the State Council or its authorized agencies, unless otherwise stipulated by the laws, administrative regulations or the foreign trade department of the State Council. Specific measures for record filing shall be stipulated by the foreign trade department of the State Council. PRC Customs shall not process import and export declaration and clearance formalities for foreign trade operators who have not filed records in accordance with the provisions.

Foreign Exchange

Pursuant to the Regulation on Administration of Foreign Exchange of the PRC promulgated by the State Council on January 29, 1996 and last amended on and effective August 5, 2008, other regulations issued by SAFE and other relevant government authorities, Renminbi is freely convertible into other currencies for current account items such as trade related receipts and payments, interest payments and dividends; as for capital account items such as direct investment, loans and portfolio investment, the prior approval of SAFE is required to convert Renminbi into other currencies and transfer the converted currencies out of the PRC. Transactions in the PRC are subject to payment in Renminbi. Pursuant to relevant regulations and laws, after a domestic company gets listed overseas, if any of its domestic shareholders intends to increase or decrease overseas shares, the domestic shareholder shall handle overseas shareholding registration formalities with the local foreign exchange authority within twenty working days prior to the intended share increase or decrease.

Pursuant to the Notice on Administration of Foreign Exchange Involved in Offshore Investment, Financing and Round-Trip Investment Conducted by Domestic Residents Through Special Purpose Vehicles, which was promulgated by SAFE and went into effect on July 4, 2014, prior to making capital contribution in a special purpose vehicle by a PRC resident using its legitimate assets or interests in the PRC or overseas, the PRC resident shall apply to the foreign exchange bureau for completion of foreign exchange registration formalities for overseas investments. A "domestic entity" referred to in this notice shall mean enterprise and institutional legal persons and any other economic organizations established in the PRC pursuant to the law; a "PRC resident individual" shall mean a PRC citizen holding a PRC resident identity document, military personnel identity document or armed police personnel identity document, and any foreign individual who does not hold a PRC identity document but normally resides in the PRC due to economic reasons.

Pursuant to the Notice on Further Simplification and Improvement of Foreign Exchange Administration Policies for Direct Investment, promulgated by SAFE on February 13, 2015 and effective June 1, 2015, two administrative approval matters, including foreign exchange registration approval under domestic direct investment and foreign exchange registration approval under overseas direct investment, shall be reviewed and processed directly by banks. SAFE and its local bureaus shall implement indirect supervision through the foreign exchange registration with banks for direct investment.

Pursuant to the Notice of SAFE on Reforming the Mode of Management of Settlement of Foreign Exchange Capital of Foreign-Funded Investment Enterprises promulgated on March 30, 2015 and effective June 1, 2015, and the Notice of SAFE on Reforming and Regulating the Policies for Administration of Foreign Exchange Settlement under the Capital Account promulgated on and effective June 9, 2016, the system of voluntary foreign exchange settlement is implemented for the foreign exchange earnings of foreign exchange capital of foreign-invested enterprises. Foreign exchange capital in a foreign-invested enterprise capital account, for which the monetary contribution has been confirmed by SAFE (or for which the monetary contribution has been registered for account entry), may be settled at a bank as required by the actual management needs of the enterprise. The voluntary settlement ratio of foreign-invested enterprise foreign exchange capital projects has been temporarily set at 100%. SAFE may make adjustments to the said ratio at appropriate times based on the status of the international balance of payments. In addition, foreign exchange earnings under capital projects and the Renminbi funds obtained from the exchange settlements thereof shall not be used by foreign-invested enterprises for the following purposes: (1) direct or indirect payments of expenditures exceeding its business scope or those being prohibited by the laws and regulations of the PRC; (2) direct or indirect uses in securities investments or investments other than capital-protected banking products (except as otherwise expressly provided); (3) issuance of loans to non-affiliated enterprises (excluding those that are expressly permitted within their business scope); and (4) construction or purchase of real estate not for personal use (except for real estate enterprises).

Foreign Investment

In March 2019, the Standing Committee of the National People's Congress of the PRC passed the Foreign Investment Law of the People's Republic of China, or the Foreign Investment Law. Among other things, the Foreign Investment Law defines the "foreign investment" as the investment activities in China conducted by foreign individuals, enterprises and other organizations, or the Foreign Investors, in a direct or indirect manner. The PRC governmental authorities will administrate foreign investment by applying the principal of pre-entry national treatment together with a negative list, to be specific, the Foreign Investors are prohibited from making any investments in the fields catalogued into prohibited industries for foreign investment based on the negative list, while they are allowed to make investments in the restricted industries provided that all the requirements and conditions as set forth in the negative list have been satisfied; when the Foreign Investors make investments in the fields other than those included in the negative list, the national treatment principle shall apply.

Pursuant to the Special Administrative Measures for Foreign Investment Access (2021 Edition), or the 2021 Edition Negative List, issued by the MOFCOM and the NDRC on December 27, 2021 which came into effect on January 1, 2022, our business does not fall into the negative list and is permitted for foreign investment. However, the 2021 Edition Negative List regulates that "Fields not mentioned in the Negative List for Foreign Investment Access shall be subject to administration under the principle of consistency for domestic and foreign investments. The relevant provisions of the Negative List for Market Access shall apply to domestic and foreign investors on a unified basis."

In addition, based on the Negative List for Market Access (2022), "the Catalogue for Guidance on Industrial Restructuring shall be included in the Negative List for Market Access"; plus, according to the Decision of the State Council on Promulgating and Implementing the "Temporary Provisions on Promoting Industrial Structure Adjustment," valid from December 2, 2005, "In principle, the 'Guidance Catalogue for the Industrial Structure Adjustment' shall apply to various types of enterprises inside China." "The industries of the eliminated category under the 'Guidance Catalogue for the Industrial Structure Adjustment' shall apply to the foreign investment enterprises." and "Investments are prohibited from being contributed to projects under the eliminated category." What's more, the NDRC released on December 30, 2021 its No. 49 Decree, announcing that the Decision of the National Development and Reform Commission on Amending the Guiding Catalog for Industrial Restructuring (2019 Version) (the "Amended Catalog"). The Amended Catalog added 'virtual currency mining activities' to the eliminated category of '1. outdated production processing and equipment' under the original Catalog.". Therefore, the foreign investment enterprises are prohibited from virtual currency activities and our Bitcoin mining business are banned in China as well.

Outbound Investment

Pursuant to the Measures for Administration of Overseas Investment of Enterprises promulgated by the NDRC on December 26, 2017 and effective March 1, 2018, investors shall perform procedures such as overseas investment project approval and filing, report relevant information, and cooperate in supervision and inspections when they conduct overseas investments. Projects subject to approval by the NDRC are sensitive projects developed by investors, either directly or through their control of overseas enterprises. Projects subject to filing are non-sensitive projects directly developed by investors, in which the investors directly invest assets or equities, or provide financing or guarantees.

Pursuant to the Measures for Administration of Overseas Investment Management promulgated on September 6, 2014 and effective October 6, 2014, filing and approval are managed by the MOFCOM and its provincial bureaus in light of the different circumstances of overseas investments of enterprises. Approval is required for enterprises conducting overseas investments involving sensitive countries and regions or sensitive industries. Filing will be administered for enterprises conducting overseas investments in other circumstances.

Laws and Regulations Relating to Environmental Protection

Pursuant to the Environmental Protection Law of the PRC issued on December 26, 1989, amended on April 24, 2014 and effective January 1, 2015, entities that cause environmental pollution and other public nuisances shall adopt effective measures to prevent the pollution of and hazards caused to the environment. Construction projects shall be equipped with constructional environmental protection facilities, which must be simultaneously designed, built and put into operation with the main part of the construction. Enterprises discharging pollutants must report to and register with the relevant authorities in accordance with the provisions of the competent environmental protection authority under the State Council. The competent environmental protection authority shall record unlawful environmental acts of enterprises in the social credit file, and disclose information in a timely manner. Enterprises and other producers and operators unlawfully discharging pollutants shall be fined and ordered to take corrective measures. For those refusing to make corrections, the competent authority may, starting from the day after the date of ordering correction, continuously impose daily fines based on the sum of the original fine. Enterprises and other producers and operators, which discharge pollutants exceeding the pollutant discharge standard or key pollutant gross discharge control thresholds, may be ordered by the competent environmental protection authority above the provincial level to take measures such as restricting production, suspending production and rectification. Serious cases may be reported to and approved by the competent government authority, resulting in orders of suspension or shutdown of operations.

Pursuant to the Environmental Impact Assessment Law of the PRC issued on October 28, 2002, amended on and effective December 29, 2018, the PRC government implemented an environmental impact evaluation system, which classifies and manages the environmental impact evaluation of construction projects based on the degree of environmental impact caused by construction projects.

Pursuant to the Administrative Regulations on Environmental Protection in Construction Projects promulgated on November 11, 1998 and amended on July 16, 2017, construction projects are classified and environmental impact reports, environmental impact statements or environmental impact registration forms shall be compiled based on the extent of environmental impact of construction projects. For a construction project for which an environmental impact report or environmental impact statement is prepared, its matching environmental protection facilities may go into production or be delivered for use only after they pass the acceptance check; and they may not go into production or be delivered for use if no acceptance check is made for them or they fail to pass the acceptance check. Where a construction project goes into production or is delivered for use without the completion of construction of matching environmental protection facilities required for the construction project, without going through acceptance checks or without passing the acceptance checks in violation of the provisions hereof, or fraud is committed in the acceptance check of the environmental protection facilities, the competent administrative department of environmental protection at or above the county level shall order the construction unit to effect rectification within a specified time limit and impose a fine of more than RMB 200,000 but less than RMB 1 million against it; if it fails to effect rectification within the time limit, a fine of more than RMB 1 million but less than RMB 2 million shall be imposed; the person in charge who is held directly liable and other liable persons shall be subject to a fine of more than RMB 50,000 but less than RMB 200,000; if material environmental pollution or ecological damage is caused, the construction unit will be ordered to stop production or use of the construction project, or be ordered to close down upon approval by the people's government with the authority of approval.

Laws and Regulations Relating to Taxation

Enterprise Income Tax

Pursuant to the EIT Law promulgated on March 16, 2007, amended on and effective December 29, 2018, and the Regulation on Implementation of the Enterprise Income Tax Law of the PRC, or the EIT Implementation Rules, issued on December 6, 2007 and amended on and effective April 23, 2019, EIT shall be applicable at a uniform rate of 25% to all resident or non-resident enterprises. EIT shall be payable by a resident enterprise for income sourced within or outside the PRC. EIT shall be payable by a non-resident enterprise, for income sourced within the PRC by its institutions or premises established in the PRC, and for income sourced outside the PRC for which the institutions or premises established in the PRC have a de facto relationship. Where the non-resident enterprise has no institutions or premises established in the PRC or has income bearing no de facto relationship with the institution or premises established, EIT shall be payable by the non-resident enterprise only for income sourced within the PRC.

Pursuant to the Administrative Measures on the Accreditation of High and New Technology Enterprises accredited high and new technology may make declarations under and benefit from tax concession policies in accordance with relevant regulations including the EIT Law and the EIT Implementation Rules, the Law of the PRC on Administration of Levying and Collection of Taxes and the Regulation of Implementation of the Law of the PRC on Administration of Levying and Collection of Taxes.

Pursuant to the Notice on Enterprise Income Tax Policies for Further Encouraging the Development of Software and Integrated Circuit Industries, IC production enterprises with an IC production line below 0.8 micrometer (inclusive), after accreditation, shall be entitled to a tax concession period beginning in the profit-making year that is prior to December 31, 2017, for which EIT shall be exempted for the first and second years and be reduced by 50% in the third to fifth years. In addition, IC production enterprises with an IC production line below 0.25 micrometer or an investment of over RMB8 billion, after accreditation, shall be entitled to a reduced EIT tax rate at 15%, and, for those with an operation period of over 15 years, the tax concession period shall be deemed to start from the profit-making year prior to December 31, 2017, for which EIT shall be exempted in the first to fifth years and be reduced by 50% in the sixth to tenth years. As for IC design enterprises newly established within the PRC and eligible software enterprises, upon accreditation, the tax concession period shall be deemed to start from the profit-making year prior to December 31, 2017, for which EIT shall be exempted for the first and second years and be reduced by 50% in the third to fifth years.

Value-Added Tax

Pursuant to the Provisional Regulation on Value-Added Tax of the PRC (“VAT Provisional Regulation”) promulgated by the State Council, as amended on November 10, 2008, February 6, 2016 and November 19, 2017 and effective November 19, 2017, all entities and individuals in the PRC engaging in the sales of goods, provision of processing services, repairs and replacement services, sales services, intangible assets, real estate and the importation of goods are required to pay value added tax, or VAT. According to VAT Provisional Regulation, taxpayers that sell goods, labor services or tangible personal property leasing services or import goods and do not fall within the scope as specified in Item 2, Item 4 and Item 5 of Article 2 of VAT Provisional Regulation shall be subject to a 17% tax rate; taxpayers that sell transport services, postal services, basic telecommunications services, construction services, or real property leasing services, sell real property, transfer the land use right, or sell or import the goods listed below shall be subject to an 11% tax rate: (1) such agricultural products as grain, edible vegetable oil, and common salt; (2) tap water, heat supply, air-conditioning, hot water, gas, liquefied petroleum gas, natural gas, dimethyl ether, methane and civil-use coal products; (3) books, newspapers, magazines, audio-visual products, and electronic publications; (4) feeds, chemical fertilizers, pesticides, agricultural machineries and mulching films; and (5) other goods specified by the State Council; taxpayers that sell services or intangible assets and do not fall within the scope as specified in Item 1, Item 2 and Item 5 of Article 2 of VAT Provisional Regulation shall be subject to a 6% tax rate.

Pursuant to the Notice on Value-Added Tax Policies of Software Products released by the Ministry of Finance and the SAT on October 13, 2011, a general taxpayer who sells self-developed and self-produced software products, VAT shall be collected at a tax rate of 17% and the refund-upon-collection policy shall be applied to the part VAT in excess of 3% of their actual tax burden.

According to the Circular of the Ministry of Finance and the SAT on Adjusting Value-added Tax Rates promulgated on April 4, 2018, and effective May 1, 2018, where a taxpayer engages in a taxable sales activity for the value-added tax purpose or imports goods, the previous applicable 17% and 11% tax rates are lowered to 16% and 10% respectively.

According to the Circular on Policies to Deepen Value-added Tax Reform promulgated by the Ministry of Finance, the SAT, and the General Administration of Customs on March 20, 2019, and effective April 1, 2019, where a taxpayer engages in a taxable sales activity for the value-added tax purpose or imports goods, the previous applicable 16% and 10% tax rates are lowered to 13% and 9% respectively.

According to Announcement of the Ministry of Finance and the State Taxation Administration to Further Step up the Application of End-of-Period Excess Input Value-Added Tax Credit Refund Policies issued by the Ministry of Finance and the SAT on March 21, 2022 and effective on April 1, 2022, Starting from the tax filing period of April 2022, an eligible enterprise in the manufacturing and other sectors may apply to the competent tax authority for a refund of its incremental VAT credit amount; starting from the tax filing period of July 2022, an eligible medium-sized enterprise in the manufacturing and other sectors may apply to the competent tax authority for a lump-sum refund of its existing VAT credit amount; and starting from the tax filing period of October 2022, an eligible large enterprise in the manufacturing and other sectors may apply to the competent tax authority for a lump-sum refund of its existing VAT credit amount.

Pursuant to the EIT Law and the EIT Implementation Rules, except as otherwise provided by relevant tax treaties with the PRC government, dividends paid by foreign-invested investment enterprises to foreign investors which are non-resident enterprises and which have not established or operated premises in the PRC, or which have established or operated premises but where their income has no de facto relationship with such establishment or operation of premises shall be subject to a withholding tax of 10%. Pursuant to the Arrangement between Mainland China and the Hong Kong Special Administrative Region for the Avoidance of Double Taxation and the Prevention of Fiscal Evasion with Respect to Taxes on Income entered into between the PRC government and the Hong Kong Special Administrative Region, where the beneficial owner is a company directly holding at least 25% of the equity interest of the company paying the dividends, the tax charged shall not exceed 5% of the distributed dividends. In any other case, the tax charged shall not exceed 10% of the distributed dividends.

Pursuant to the Announcement on Issues Relating to “Beneficial Owner” in Tax Treaties promulgated by the SAT on February 3, 2018 and came effective April 1, 2018, a “beneficial owner” shall mean a person who has ownership and control over the income, and the rights and property from which the income is derived. Upon the determination of the “beneficial owner” status of a resident of the treaty counterparty who needs to enjoy the tax treaty benefits (hereinafter referred to as the “applicant”), a comprehensive analysis shall be conducted taking into account the actual conditions of the specific case. In general, the following factors are unfavorable for the determination of “beneficial owner” status of an applicant: (1) the applicant is obligated to pay 50% or more of the income, within 12 months from its receipt, to a resident of a third country (region), where the term “obligated” includes agreed obligations and de facto payment for which there is no agreed obligation; (2) the business activities undertaken by the applicant do not constitute substantive business activities, where substantive business activities shall include manufacturing, distribution and management activities of a substantive nature, the determination of whether the business activities undertaken by the applicant are of a substantive nature shall be based on the functions actually performed and the risks borne, and investment holding management activities of a substantive nature undertaken by the applicant may constitute substantive business activities (where the applicant undertakes investment holding management activities which do not constitute substantive business activities, and simultaneously undertakes other business activities, if such other business activities are not sufficiently significant, these shall not constitute substantive business activities); (3) the treaty counterparty country (region) does not levy, or exempts tax on the relevant income, or levies tax but with a very low actual tax rate; (4) in addition to the loan contract based on which interest is derived and paid, there exists other loans or deposit contracts between the creditor and the third party, of which factors such as the amount, interest rate and date of execution are similar; and (5) in addition to the transfer contract for rights to use such as copyright, patent, technology, from which the royalties are derived and paid, there exists other transfer contracts for rights to use or ownership in relation to copyright, patent, technology between the applicant and a third party.

Pursuant to the Notice of the SAT on the Relevant Issues Concerning the Implementation of Dividend Clauses in Tax Treaties promulgated by the SAT and effective February 20, 2009, all of the following conditions shall be satisfied before the concession tax rate in a tax treaty can be enjoyed: (1) the tax resident obtaining dividends shall be restricted to the company as provided in the tax treaty; (2) among all the ownership equity interests and voting shares of the PRC resident company, the proportion directly owned by the tax resident complies with the prescribed proportions under the tax treaty; and (3) the proportion of the equity interests of the PRC resident company directly owned by such tax resident complies with, at all times within the twelve months before obtaining the dividends, the proportions specified in the tax treaty.

Pursuant to the Announcement of the State Taxation Administration on Issuing the Administrative Measures for Entitlement to Treaty Benefits for Non-resident Taxpayers promulgated by the SAT on October 14, 2019 and effective January 1, 2020, entitlement to treaty benefits for non-resident taxpayers shall be handled by means of “self-judgment of eligibility, declaration of entitlement, and retention of relevant materials for future reference”. Where non-resident taxpayers judge by themselves that they meet the conditions for entitlement to treaty benefits, they may obtain such entitlement themselves at the time of making tax declarations, or at the time of making withholding declarations via withholding agents. At the same time, they shall collect, gather and retain relevant materials for future reference in accordance with the provisions of these Measures, and shall accept the follow-up administration of tax authorities. Relevant information proving the status of “beneficial owner” shall be retained in the case of entitlement to dividends, interest and treaty benefits of royalty clauses.

Laws and Regulations Relating to Labor and Social Security

Pursuant to the Labor Law of the PRC promulgated on July 5, 1994 and amended on and effective December 29, 2018, companies must negotiate and enter into employment contracts with their employees based on the principle of fairness. Companies must establish and strengthen an employment hygiene system, strictly implement the national labor safety and health rules and standards, deliver occupational health and safety education to employees, prevent work-related accidents, and reduce occupational hazards. In addition, employers and employees shall purchase social insurances and pay for social insurance fees in compliance with applicable PRC laws.

Labor Contracts

The Labor Contract Law of the PRC, which was promulgated on June 29, 2007 and subsequently amended on December 28, 2012 and effective July 1, 2013, serves as the primary law regulating the labor contract relationship between companies and employees. Pursuant to this law, an employment relationship is established between the employer and the worker since the day of employment. The employer shall execute a written employment contract with the worker. Furthermore, to safeguard the legal rights and interests of workers, the way to calculate compensation for the probation period and for damages shall be subject to the provisions of the law.

Social Security and Housing Provident Fund

As required under the Social Insurance Law of the PRC promulgated on October 28, 2010, and amended on and effective December 29, 2018, the Regulation on Work-Related Injury Insurance promulgated on April 27, 2003, amended on December 20, 2010 and effective January 1, 2011, the Provisional Measures on Insurance for Maternity of Employees promulgated on and effective December 14, 1994 and implemented on January 1, 1995, and the Regulation on Administration of Housing Provident Funds promulgated on April 3, 1994 and last amended on and effective March 24, 2019, employers and employees within the PRC shall pay for social insurance fees and housing provident funds in compliance with applicable PRC laws.

Laws and Regulations Relating to Intellectual Property

Trademarks

Pursuant to the Trademark Law of the PRC promulgated on August 23, 1982, amended on April 23, 2019 and effective November 1, 2019 and the Regulation on Implementation of the Trademark Law of the PRC promulgated on August 3, 2002, amended on April 29, 2014 and effective May 1, 2014, the right to the exclusive use of a registered trademark is limited to the approved trademark registration, and to goods for which the use of the trademark has been approved. The period of validity of registered trademarks lasts for ten years from the day of registration approval. Absent the authorization by the owner of the registered trademark, the use of the registered trademark or a similar trademark on the same category of goods or similar goods constitutes an infringement of the right to exclusive use of the registered trademark. The infringer shall, in accordance with the relevant regulations, cease the infringement activities, take correction actions, and compensate for losses.

Patents

Pursuant to the Patent Law of the PRC promulgated on March 12, 1984, last amended on December 27, 2008 and effective October 1, 2009, and the Rules for the Implementation of the Patent Law of the PRC amended on January 9, 2010 and effective February 1, 2010, after the grant of the patent right for inventions and utility models, except otherwise regulated under the Patent Law, no entity or individual may, without the authorization of the patent owner, exploit such patent, that is to manufacture, use, offer to sell, sell or import the patented product, or use the patented process, and use, offer to sell, sell or import products directly obtained from such patented process, for production or business purposes. After the patent right is granted for a design, no unit or individual shall, without the authorization of the patent owner, exploit such patent, that is to manufacture, offer to sell, sell, or import any product containing such patented design for production or business purposes. Where infringement has been established, the infringer shall, in accordance with the relevant regulations, be ordered to cease the infringement activities, take corrective actions, and compensate for losses.

Copyrights

Pursuant to the Copyright Law of the PRC promulgated on September 7, 1990, last amended on November 11, 2020, and effective June 1, 2021, works of PRC citizens, legal persons or unincorporated organizations shall, regardless of whether they have been published, be entitled to the copyright pursuant to this law. Works include written works; oral works; musical, dramatic, opera, dance, acrobatic and artistic works; visual arts, architectural works; photographic works; audiovisual works; graphical works and modeling works such as engineering design graphs, product design graphs, maps and schematic diagrams; computer software; and other intellectual achievements that meet the characteristics of works.

Pursuant to the Regulation on Protection of Computer Software promulgated on December 20, 2001, last amended on January 30, 2013 and effective date on March 1, 2013, software copyright is conferred on the software development completion date. The protection period for a software copyright of a legal person or other organizations lasts for 50 years, concluding on the day of December 31 in the 50th year after the initial release of the software. However, in the case where the software has not been released within 50 years from its development completion date, protection shall no longer be offered by these regulations. A software copyright holder may register with competent software registration authority under the State Council Copyright Administrative Department. Registration certification documents issued by the competent software registration authority serve as the prima facie proof of such registration.

IC Layout Designs

Pursuant to the Regulation on the Protection of Integrated Circuit Layout Designs promulgated on April 2, 2001 and implemented on October 1, 2001, and the Protection of Integrated Circuit Layout Designs Regulations Implementing Rules promulgated on September 18, 2001 and effective October 1, 2001, layout design proprietary right holders enjoy the following proprietary rights: to duplicate the whole or any part of the protected layout designs that is original; to make commercial use of the protected layout designs, ICs containing such layout designs, or items containing such ICs.

Regulatory Overview of Australia

We are engaged in cryptocurrencies and foreign exchange business in Australia. Our corporate entities engaged in these businesses were established and registered in Australia and have adopted measures to ensure compliance with its regulatory obligations.

Existing regulatory framework on foreign exchange and crypto assets

While the regulation of foreign exchange business has long been settled in Australia, the same cannot be said for cryptocurrency. In any event, cryptocurrencies or digital currencies, and cryptocurrency exchanges are legal in Australia.

Financial products and services offered in Australia are generally regulated by imposing obligations on the sellers or distributors of the product. The Australian Securities and Investments Commission (ASIC) and the Australian Transaction Reports and Analysis Centre (AUSTRAC) oversee different aspects of the foreign exchange and crypto asset ecosystem of Australia and at this stage, there is currently no clear, holistic policy that directly regulates crypto assets (cryptocurrencies/digital currencies) or Crypto Asset Secondary Service Providers (**CASSP**) in Australia.

It can be said at this stage that the existing regulatory framework for crypto assets is composed of a patchwork of obligations drawn from various parts of Australian laws: the *Corporations Act 2001 (Corporations Act)*, *Anti-Money Laundering and Counter-Terrorism Financing Act 2006 (AML/CTF Act)*, and the *Competition and Consumer Act 2010*.

In essence, if the crypto asset is a financial product and a designated service, it will fall within the ambit of the Corporations Act and the AML/CTF Act, but if it is not a financial product, then it is considered a consumer product subject to the Australian Consumer Law under the Australian Competition and Consumer Commission (ACCC).

Government bodies and laws on foreign exchange and crypto assets and exchanges

The Australian Securities and Investments Commission (ASIC) and the Australian Transaction Reports and Analysis Centre (AUSTRAC) are the two (2) primary regulators of foreign exchange contracts and crypto assets and exchanges.

ASIC and the Corporations Act and the ASIC Act

ASIC is the government regulator for among others, corporations, financial markets, and the financial services industry of Australia and administers the Corporations Act and the ASIC Act, which embody the regulatory obligations on the industry it supervises. ASIC imposes the requirement to hold an Australian Financial Services License (AFSL) before engaging in financial services (in relation to financial products) in Australia.

We hold an AFSL that authorizes us to deal in and provide general financial product advice in relation to among others, **foreign exchange contracts** e.g. *FX Forward and Options Contracts*, and **non-cash payment products** (NCP).

While there have been no changes recently to the laws governing foreign exchange contracts, NCP products have received some attention in relation to crypto or digital assets. An NCP is described as an arrangement through which a party makes payments, or causes payments to be made, other than by the physical delivery of Australian or foreign currency. Examples include stored value cards, electronic cash and direct debit services.

An intermediary that arranges for the issue of an NCP facility may need an AFS License or be a Representative of an AFS licensee. However, just because a crypto asset is what is used to complete a transaction does not necessarily mean that the crypto asset is an NCP facility as it will depend on the rights and obligations associated with the asset.

According to ASIC's INFO 225, if the asset provides the holder with a right to use the asset to make a payment, it is likely to be an NCP facility. An arrangement is also likely to be an NCP if for example a person offers an arrangement where payments can be made using a crypto asset but fiat currency is sent to recipients.

Australian Financial Services License (AFSL)

As an AFS Licensee engaged in financial services in Australia, in particular, advising and dealing in foreign exchange contracts and non-cash payment products, we are subject to general obligations under the Corporations Act, including among others, providing financial services efficiently, honestly and fairly; having in place adequate arrangements for the management of conflicts of interest; complying with our license conditions and financial services laws; having adequate human, financial and technological resources; maintaining a dispute resolution system for retail clients; and ensuring that our representatives are adequately trained and competent. Additionally, we must have adequate risk management systems in place. ASIC requires all AFS Licensees to have their compliance arrangements in relation to these obligations to be audited on an annual basis.

ASIC initiatives concerning crypto assets

The Australian government has publicly stated that it is committed to ensuring that consumers can buy, sell, and store crypto assets using Australian crypto asset secondary service providers.

In October 2021, ASIC amended Information Sheet (INFO 225) in relation to crypto assets to help understand the obligations under the Corporations Act and the *Australian Securities and Investments Commission Act 2001* (ASIC Act).

Based on INFO 225, Australian laws apply where the crypto asset is promoted or sold in Australia, including from offshore. As such, the use of offshore or decentralized structures does not mean that Australian laws do not apply or can be ignored and encourages entities to build their products and services in a way that complies with the intention of the laws in place to safeguard consumers and the integrity of financial markets in Australia.

Furthermore, INFO 225 provides that it is incumbent on issuers to determine if issuing the crypto asset fall within the definition of a ‘financial product’ under the Corporations Act and if so, the need to hold an AFSL will apply and the product will be regulated by ASIC.

Whether a crypto asset is considered a financial product depends on its use, as primarily defined in section 763A of the Corporations Act.

With regards to the ASIC Act, it prohibits engagement in misleading or deceptive conduct in the course of operating a crypto asset business whether a financial product is involved or not.

AUSTRAC and the AML/CTF Act

AUSTRAC is the Australian Government agency responsible for preventing, detecting, and responding to criminal abuse of the financial system to protect the Australian community from serious and organized crime. AUSTRAC also regulates certain business activities in the financial, bullion and gambling sectors. These business activities are called designated services and have been identified because they pose a risk for money laundering and terrorism financing.

Presently, Australia’s crypto currency regulations under the AML/CTF Act and regulations, require digital currency exchanges (DCE) to register with AUSTRAC. The regulations require entities acting as exchanges, or providing registrable exchange type services, to identify and verify their users, maintain records, and comply with government AML/CTF reporting obligations.

One of our business entities in Australia has been registered as a Digital Currency Exchange Provider with AUSTRAC and complies with the regulatory obligations imposed by AUSTRAC under the Anti Money-Laundering and Counter-Terrorism Financing Act 2006 (AML/CTF Act), including among others, having an AML/CTF Program; identifying the types of money laundering and terrorist financing risks that may be faced by the business and the consequences of non-compliance; reporting on suspicious matters, threshold transactions (where physical currency is accepted or paid out is AUD10,000 or more); and keeping records for the prescribed period.

Australian Government recent regulatory objectives for crypto assets

The Australian government is committed to ensuring that consumers can engage (buy, sell, and store) crypto assets using Australian CASSP with confidence and has announced in October 2021 that it intends to regulate the digital asset market by imposing a licensing (marketing and financial services) regime.

As articulated by the Australian government, the proposed licensing regime is designed to provide a framework for minimum standards of conduct, including for custody of private keys and the suitability of key persons to be operating secondary service provider businesses (through fit and proper person tests).

These changes will provide regulatory clarity and give confidence to both consumers and businesses.

On March 21, 2022, the Australian Government issued a “policy paper” advising that it intends to:

1. Establish a market licensing regime for crypto exchanges – aimed to ensure sure that consumers can trust the exchanges they use to buy cryptocurrencies; and
2. Introduce custody arrangements for cryptocurrency exchanges – aimed to ensure that crypto investors who hold their crypto on exchange can always access their money by introducing custody requirements for crypto assets.

The policy paper named the following existing Government initiatives, all drawing on benefits of innovation in Australia.

- The Government Digital Economy Strategy is designed to position Australia to be a top 10 digital economy and society by 2030 through AUD1.2 billion of strategic investment.
- The National Blockchain Roadmap 2020-2025 highlights the potential of blockchain technology across the Australian economy.
- AUD60 million in funding to the Digital Finance Cooperative Research Centre (DFCRC) to bring together fintech, industry, research, regulatory stakeholders to capitalize on the financial sector transformation arising from the digitization of assets.
- The Blockchain Pilot Grants program provided AUD5.6 million to two blockchain projects.
- The Australian Border Force has undertaken a successful blockchain trial to digitize trade processes.
- Implemented an anti-money laundering and counter-terrorism financing framework for crypto asset secondary service providers via AUSTRAC's digital currency exchange register.
- Commitment to investigating the feasibility of a central bank digital currency, the potential of Decentralised Autonomous Organisations and reviewing the taxation of digital transactions and assets.

The Australian Competition and Consumer Commission (ACCC)

The ACCC is an independent Commonwealth statutory authority whose role is to enforce the *Competition and Consumer Act 2010*. The ACCC provides guidance to consumers about buying and sending fiat and crypto currencies and can intervene in cases involving misleading conduct.

The Australian Taxation Office and taxation laws on crypto or digital currencies

While the Australian Taxation Office (ATO) has provided some guidance on the income tax treatment of crypto and digital assets and has adopted some legislative reform with regards to Goods and Services Tax, this has been limited to crypto ownership in Australia.

The inability of the ATO to provide comprehensive binding guidance is due, in part, to the fact that crypto includes a broad range of tokens and other “things” with different rights, entitlement and obligations. As such, without a specific crypto regime it is difficult for the ATO to administer the law in a consistent and sensible way.

Board of Taxation review

A review conducted by the Board of Taxation into the appropriate policy framework for the taxation of digital transactions and digital assets, including cryptocurrency and non-fungible tokens (NFTs) is due for completion by December 31, 2022. The terms of reference for the review requires the Board to, among others, consider whether or not any changes to Australia's taxation laws and/or their administration are warranted in the context of digital assets and transactions, both for retail and wholesale investors.

It is said that the review signals an increasing desire for Australia to be at the forefront of technology and innovation. Meanwhile, in considering the tax and accounting process of these digital assets, the industry is expected to have recourse to the guidelines provided by the ATO.

The Australian Sanctions Office (ASO)

The following is a brief summary of the sanctions regime imposed by the Australian Government. This summary does not intend to set out the laws and regulations relating to Australia's sanctions regime in their entirety.

ASO is the Australian Government's sanctions regulator and it operates under Australia's Foreign Affairs and Trade Department (DFAT). ASO is tasked with, among others, providing guidance on Australian sanctions law and works with other government agencies to monitor compliance with sanctions legislation. Australia adopts both the United Nations Security Council (UNSC) sanctions regimes and the Australian autonomous sanctions regimes as a matter of international law as well as a matter of Australian foreign policy. Penalties for breaching sanctions laws include up to ten years in prison and substantial fines.

Australia has recently (in March and April 2022) extended its autonomous sanctions in relation to Russia. These sanctions measures are aimed at restrictions on exports and commercial activities, including providing and dealing with assets of designated persons or entities, and prohibit all imports. However, Sanctions Permits may be issued, subject to certain criteria.

Regulatory Overview of United States

The following sets forth a description of certain laws, regulations and government policies relating to cryptocurrencies and cryptocurrency mining in the United States, which we consider a key market for our overseas business.

We are not aware of any law that currently makes it per se illegal for a natural person or entity simply to possess, sell, or trade Bitcoin on its own behalf in connection with lawful transactions in the United States, provided that any transaction complies generally with applicable law. We are also not aware of any United States federal law that currently prohibits any legal entity or natural person from importing blockchain processing units, or BPUs, into the United States or manufacturing or selling BPUs within the United States. Nonetheless, in the United States, both the federal government and individual states have regulations in place that govern the offer, sale, and transmission of various types of cryptocurrency, including but not limited to Bitcoin, and the legal status of Bitcoin and other cryptocurrencies continues to evolve.

The United States Commodity Futures Trading Commission, or CFTC, has taken the position that cryptocurrencies, such as Bitcoin, are "commodities" covered by the Commodity Exchange Act and subject to regulation by the CFTC. In March 2018, a United States federal court affirmed the CFTC's authority to regulate cryptocurrencies. This means that the CFTC has jurisdiction over any futures, options or derivatives contracts involving cryptocurrencies as well as any fraud or manipulation involving cryptocurrencies in the spot market. Our products are not intended to be used either for any futures, options or derivatives trading or to enable fraud or manipulation. However, to the extent that any mining activity using our products were to be deemed a form of fraud or manipulation, or our products were otherwise used for fraud or manipulation, we could potentially be subject to regulatory or private actions related to those uses.

In addition, while the SEC has taken the position that Bitcoin, Ether, and certain cryptocurrencies subject to significant operational restrictions are not "securities" regulated by the federal securities laws, it is likely that the SEC would view almost all other cryptocurrencies (other than Bitcoin and Ether) that can be mined to be "securities," based on their status as "investment contracts" under the guidance provided by the SEC "Framework for 'Investment Contract' Analysis of Digital Assets," and the application of the test under *SEC v. W. J. Howey Co.*, 328 U.S. 293 (1946) (the "Howey test") to cryptocurrencies. It is similarly likely that these other cryptocurrencies will be treated as securities under the laws of the individual states.

The status of additional cryptocurrencies as securities could impose significant restrictions on us or our customers with operations that are located in the United States or involve United States residents. Typically, offerings and distributions of securities in the United States are required to register with the SEC under the Securities Act and, in compliance with state law, with applicable state regulators. If the offering of a cryptocurrency that can be mined using our products is deemed a security, miners may be required to cease mining that cryptocurrency, which would negatively affect our business. In addition, if the Company were viewed as facilitating an illegal distribution of a cryptocurrency, the Company could have liability associated with its product sales. Further, even if a cryptocurrency that is considered to be a security is legally distributed under the US securities laws, the miners of that cryptocurrency could be viewed as statutory underwriters or as "brokers" subject to regulation under the Exchange Act because they are effecting transactions in those securities for a fee (i.e., mining rewards). This outcome would again potentially reduce the viability of our product sales and could also result in the Company incurring liability. Any of these developments could limit the future development of our business. See "Item 3. Key Information—D. Risk Factors—Risks Relating to Our Business and Industry—Risks Relating to Our Cryptocurrency, Blockchain and Mining Related Businesses—The current regulatory environment in foreign markets, and any adverse changes in that environment, could have a material adverse impact on our blockchain products business and our cryptocurrency exchange and financial service platform businesses."

Further, the Department of the Treasury’s Financial Crimes Enforcement Network, or FinCEN, regulates “money transmitters,” including certain administrators and exchangers of cryptocurrencies, and state laws also regulate money transmission; more generally, cryptocurrency transactions may implicate a variety of federal and state laws designed to counter money laundering. In that regard it should be noted that U.S. Secretary of the Treasury Steven Mnuchin has indicated that federal regulators are specifically looking for potential money laundering activities involving cryptocurrency.

In addition, since there has been limited precedence set for the financial accounting of digital assets, it is unclear how we will be required to account for digital asset transactions (i.e. receiving or selling Bitcoin) or assets. Internal Revenue Service Notice 2014-21 states that at federal level, “the sale or exchange of convertible virtual currency, or the use of convertible virtual currency to pay for goods or services in a real-world economy transaction, has tax consequences that may result in a tax liability.” Under Notice 2014-21, cryptocurrencies are treated as “property” for U.S. federal tax purposes and this position was reaffirmed by the IRS in a reminder issued in March 2018 (IR-2018-71). In 2019, the IRS further released Revenue Ruling 2019-24 and a set of “Frequently Asked Questions” (which have been periodically updated), that provide additional guidance, including guidance to the effect that, under certain circumstances, hard forks of digital currencies are taxable events giving rise to ordinary income and guidance with respect to the determination of the tax basis of virtual currency. However, this guidance does not address other significant aspects of the U.S. federal income tax treatment of cryptocurrency assets and related transactions. Mining, selling, and transacting in cryptocurrencies are all potentially taxable events for U.S. federal income tax purposes. United States state taxing authorities may adopt similar views on the taxability of cryptocurrencies.

Sanctions Laws and Regulations

Following is a summary of the sanctions regime imposed by the United States. This summary does not intend to set out the laws and regulations relating to the United States sanctions in their entirety.

Treasury Regulations

OFAC is the primary agency responsible for administering U.S. sanctions programs against targeted countries, entities, and individuals. “Primary” U.S. sanctions apply to “U.S. persons” or activities involving a U.S. nexus (such as funds transfers in U.S. currency or activities involving U.S. origin goods, software, technology or services even if performed by non-U.S. persons), and “secondary” U.S. sanctions apply extraterritorially to the activities of non-U.S. persons even when the transaction has no U.S. nexus. Generally, U.S. persons are defined as entities organized under U.S. law (such as companies and their U.S. subsidiaries); any U.S. entity’s domestic and foreign branches (sanctions against Iran and Cuba also apply to U.S. companies’ foreign subsidiaries or other non-U.S. entities owned or controlled by U.S. persons); U.S. citizens or permanent resident aliens (“green card” holder), regardless of their location in the world; individuals physically present in the United States; and U.S. branches or U.S. subsidiaries of non-U.S. companies.

Depending on the sanctions program and/or parties involved, U.S. law also may require a U.S. company or a U.S. person to “block,” or freeze, any assets or property interests owned, controlled or held for the benefit of a sanctioned country, entity, or individual when such assets or property interests are in the United States or within the possession or control of a U.S. person. Upon such blocking, no transaction may be undertaken or effected with respect to the asset/property interest — no payments, benefits, provision of services or other dealings or other type of performance (in case of contracts/agreements) — except pursuant to an authorization or license from OFAC.

OFAC's comprehensive sanctions programs currently apply to Cuba, Iran, North Korea, Syria, Venezuela, and the Crimea region of Russia/Ukraine, or the Comprehensively Sanctioned Countries. OFAC's limited programs apply to Belarus, Burundi, Central African Republic, Democratic Republic of the Congo, Iraq, Lebanon, Libya, Mali, Nicaragua, Somalia, South Sudan, Russia, Ukraine, Yemen and Zimbabwe. OFAC also prohibits virtually all business dealings with persons and entities identified in the list of Specially Designated Nationals and Blocked Persons maintained by OFAC, or the SDN List. Entities that a party on the SDN List owns (defined as a direct or indirect ownership interest of 50% or more, individually or in the aggregate) are also blocked, regardless of whether that entity is expressly named on the SDN List. Additionally, U.S. persons, wherever located, are prohibited from approving, financing, facilitating, or guaranteeing any transaction by a non-U.S. person where the transaction by that non-U.S. person would be prohibited if performed by a U.S. person or within the United States.

Export Control Regulations

The purpose of the export control regulations is to control exports and re-exports for purposes of national security, foreign policy, short supply, reduction of nuclear proliferation, limitation of chemical or biological warfare, antiterrorism, crime control, enforcement of economic embargoes, compliance with United Nations resolutions and other purposes. These laws apply to both the export of tangible products as well as the export of technology, technical data, software, trade secrets and similar types of information. These programs are administered by various U.S. agencies. Sanctions for violations of these regulations include civil and criminal penalties — criminal sanctions are often imposed on both corporate defendants and officers, directors and employees of the corporation in their personal capacities.

Export Administration Regulations

In the United States, the principal program for the federal regulation of exports is under the U.S. Export Administration Regulations, or the EAR. The EAR controls the export and re-export of U.S.-origin products and technologies from the United States. The EAR prohibits the export of certain goods, software and technologies identified therein to specific foreign countries or require exporters to obtain export licenses for the export of such items. The EAR incorporate the Commerce Control List, a list of approximately 3,000 items, which are subject to export restrictions. Items on the Commerce Control List are prohibited from export to certain destinations unless an export license is issued by the U.S. Department of Commerce. Items on the Commerce Control List include products, software and technology. Examples of products that are subject to export licensing include electronic navigation control systems, computer aided design devices (CAD-CAM), high performance computers, network components (routers, hubs, servers), computerized telecommunications switches and high performance composite materials. The EAR also control the "re-export" of products manufactured in foreign countries which incorporate more than a de minimis amount of U.S. content or which are based on certain U.S. -origin technologies. Finally, the EAR also prohibit the export of any item that will be used in any prohibited end-use.

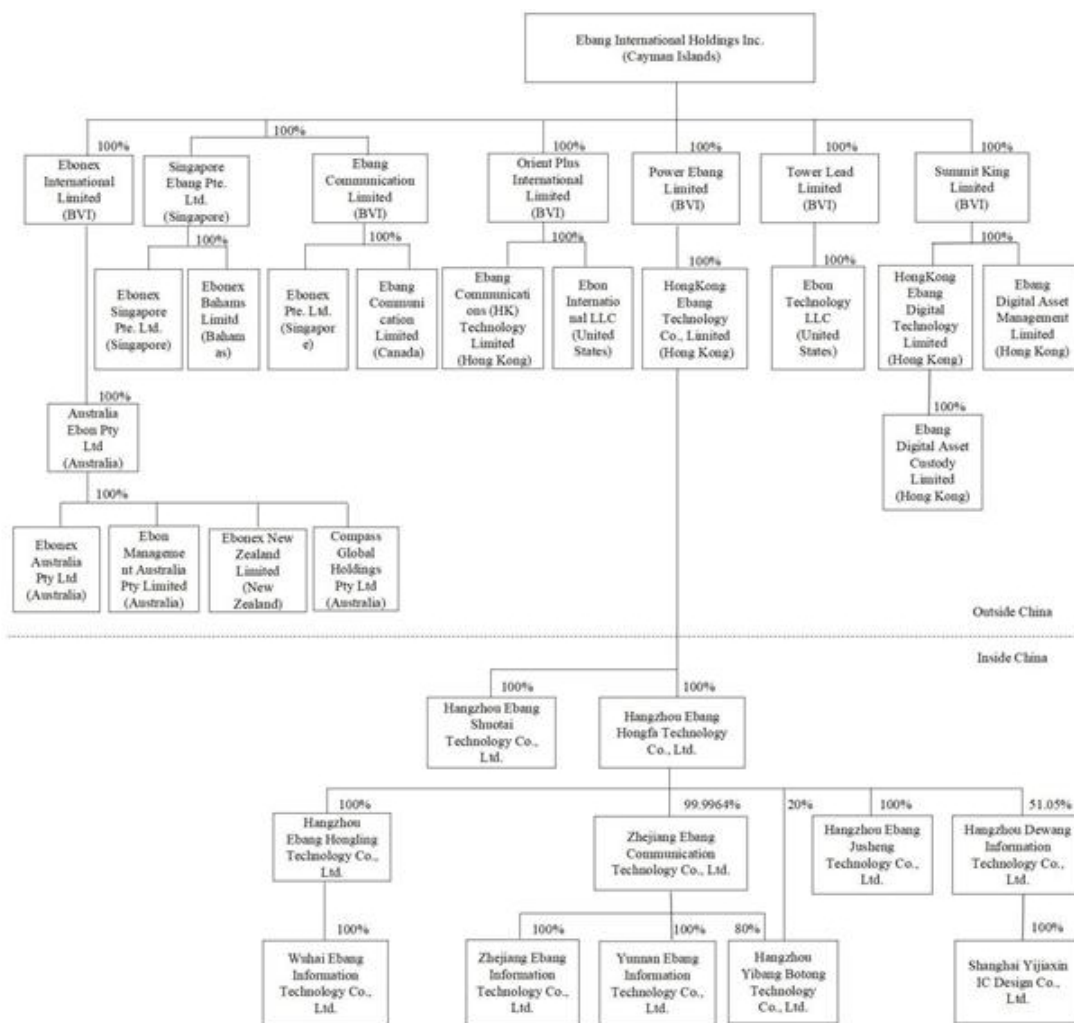
C. Organizational structure

We are an exempted company incorporated pursuant to the laws of Cayman Islands. We operate and own our assets directly and indirectly through a number of subsidiaries.

Ebang International Holdings Inc. is a holding company incorporated in Cayman Islands which does not have substantive operations. We conduct our businesses through our subsidiaries. Our principal subsidiaries consist of the following entities (in chronological order based on their dates of incorporation):

- Zhejiang Ebang Communication Technology Co., Ltd., or Zhejiang Ebang, our majority-owned subsidiary and an onshore holding company established in the PRC on January 21, 2010, principally for holding our businesses in the design, manufacture and sale of telecommunications and blockchain processing equipment;
- Zhejiang Ebang Information Technology Co., Ltd., or Ebang IT, our majority-owned subsidiary and an operating entity established in the PRC on August 11, 2010, principally for the design, manufacture and sale of telecommunications and blockchain processing equipment;
- Hangzhou Dewang Information Technology Co., Ltd., or Hangzhou Dewang, our majority-owned subsidiary and an operating entity established in the PRC on December 31, 2015, principally for the design and manufacture of blockchain chips;
- Ebang Communications (HK) Technology Limited, or HK Ebang Communications, formerly known as Hong Kong Bite Co., Ltd., our wholly-owned subsidiary and an operating entity established in Hong Kong on February 12, 2016, principally for the trading of blockchain chips;
- Hangzhou Ebang Jusheng Technology Co., Ltd., or Ebang Jusheng, our wholly-owned subsidiary and an operating entity established in the PRC on January 3, 2018, principally for the trading of telecommunications and blockchain processing equipment; and
- Ebonex Australia Pty Ltd, or Ebonex Australia, our wholly-owned subsidiary and an operating entity established in Australia on April 22, 2021, principally for operating the cryptocurrency exchange platform Ebonex.

The chart below summarizes our corporate structure and identifies the principal subsidiaries described above as of the date of this annual report:



- (1) The remaining 48.95% equity interests are owned by Huzhou Meiman Investment Management LLP, an unaffiliated third party.
- (2) On December 16, 2020, an affiliate controlled by Mr. Dong Hu, our chairman of the board of directors and Chief Executive Officer, acquired 0.0036% of the equity interests in Zhejiang Ebong Communication Technology Co., Ltd.
- (3) There is another Hong Kong entity within the Group named Ebong Trust Limited, whose ultimate parent is Ebong International Holdings Inc.

D. Property, plants and equipment

Our business operation is headquartered in Hangzhou, Zhejiang. We also currently occupy properties in other locations in China, including (1) other research and development bases in Shanghai and Wuhan, (2) two production facilities in Hangzhou and Wuhai, and (3) sales offices in Hangzhou, Shijiazhuang, Changsha, Guangzhou, Taizhou and Shenyang.

In addition, we are constructing our new headquarters in Yuhang District, Hangzhou which will comprise expanded production, research and development and office space, among other uses, in order to support our business growth. For more information on our expansion plan and the related properties, see “—Owned Properties.”

Leased Properties

The total gross floor area, or GFA, of our leased properties is approximately 16,501 square meters, or sq.m, out of which, approximately 7,344 are for production facilities and 9,157 are for research and development, sales and other offices. Our lease agreements typically have a term of one to three years.

Owned Properties

As of December 31, 2021, we owned properties in three locations in China with a total GFA of approximately 48,087.68 sq.m. The following table sets forth the GFA of all properties owned by us:

Location	Approximate GFA (sq.m.)
Completed	
Wuhan, Hubei (research and development center)	390.68
Wuhai, Inner Mongolia ⁽¹⁾	14,200
Pending construction	
Hangzhou, Zhejiang (Yuhang District) ⁽²⁾	33,497
Total	48,087.68

- (1) We acquired the land and constructed the building for the Wuhai production facility to further increase our production capacity. The production facility has ceased operations by the end of April 2021.
- (2) We have acquired this land from the government by way of public tender. We have made full payment of RMB17.6 million for the purchase price and have obtained the land use right certificate. We plan to construct a large production facility, a new headquarters office, a research and development facility and staff dormitory on this land and, upon completion of the construction, we will relocate our existing headquarters and leased production facility in Hangzhou to this new location. We expect to commence its operation by the first half of 2022.

We believe that we have adequate facilities, through a combination of leased and owned properties, to accommodate our business operations and future expansion plans.

ITEM 4A. UNRESOLVED STAFF COMMENTS

Not applicable.

ITEM 5. OPERATING AND FINANCIAL REVIEW AND PROSPECTS

Unless otherwise stated, the discussion and analysis of our financial condition and results of operation in this section apply to our financial information as prepared according to U.S. GAAP. You should read the following discussion and analysis of our financial condition and operating results in conjunction with our consolidated financial statements and the related notes included elsewhere in this annual report. The following discussion contains forward-looking statements based upon current expectations that involve risks and uncertainties. Our actual results and the timing of selected events may differ materially from those anticipated in these forward-looking statements as a result of various factors, including those set forth under “Item 3. Key Information—D. Risk Factors.”

A. Operating results

Overview

We are a global blockchain technology company with strong application-specific integrated circuit (ASIC) chip design capability. With years of industry experience and expertise in ASIC chip design, we have become a global Bitcoin mining machine producer with steady access to wafer foundry capacity. With our licensed and registered entities in various jurisdictions, we intend to launch a professional, convenient and innovative digital asset financial service platform to expand into the upstream and the downstream of blockchain and cryptocurrency industry value chain.

Leveraging our deep understanding of the cryptocurrency industry and strong blockchain technology as applied to ASIC chip design, we strive to expand into the upstream and downstream markets of the blockchain and cryptocurrency industry value chain to diversify our offerings and achieve a more stable financial performance. We intend to start with the cryptocurrency mining and farming business, and expand into the cryptocurrency trading exchange business. In April 2021, we launched our first self-developed proprietary cryptocurrency exchange platform Ebonex and has since launched another self-developed proprietary cryptocurrency exchange platform, also branded Ebonex, in Australia in February 2022. We believe our extensive experience in the blockchain and cryptocurrency industry positions us well in our future endeavors. We intend to continue to concentrate our efforts in our cryptocurrency and blockchain related businesses in 2022.

In addition, we are at an initial preparatory stage of executing our plan to launch blockchain-enabled financial businesses to capture the growth opportunity along the value chain of the blockchain industry, specifically in Singapore, Hong Kong, the Bahamas, New Zealand and the United States. Although we have not generated significant revenues from such businesses to date, we carefully selected these countries and/or regions because of what we believe to be a Fintech-friendly regulatory environment.

Key Factors Affecting Our Results of Operations

In addition to the general factors affecting the Chinese and global economy and our industry, our results of operations and financial condition are affected by a number of industry- and company-specific factors, including those set out below:

Expected economic returns on Bitcoin mining activities and fluctuation of Bitcoin price especially

Our revenues primarily consist of proceeds of sales of Bitcoin mining machines, which are, in general, determined by the demand and pricing of our Bitcoin mining machines. An increase in the economic return of Bitcoin mining activities would generally stimulate the demand and average selling price for our Bitcoin mining machines, and vice versa. An increase in the Bitcoin price is the most significant factor that could increase the expected economic returns generated by Bitcoin mining activities. Other factors that may increase the economic return of Bitcoin mining activities include, among others, increase in transaction fees, decrease in electricity costs or other operating costs, increase in computing power and efficiency of mining machines, reduction of difficulties of mining activities and increase in number of Bitcoin awarded for mining activities.

Historically, fluctuation of the Bitcoin price significantly affected our results of operations and financial condition; in particular, a significant drop in Bitcoin price resulted in a material negative effect on the global financial market and our results of operation. Due to the rising interest in cryptocurrency in 2019, we generated revenues of US\$89.9 million from our blockchain products business in 2019, mainly attributable to the increase in user needs for mining machines with better performance in terms of computing power, efficiency and heat radiation, among others, and the general increase in market demand in response to high Bitcoin price in 2019. In March 2020, the World Health Organization declared the COVID-19 outbreak a global pandemic, which led to a significant drop in the price of Bitcoin. The Bitcoin price has regained most of the ground since the drastic drop in March 2020, however, and experienced a significant increase since April 2020 to the end of 2020. Despite such increase in the price of Bitcoin, due to the COVID-19 pandemic and the Bitcoin halving event that occurred in May 2020, the economic return of Bitcoin mining activities was further reduced as awards from solving a block was halved, which also affected the demand for our Bitcoin mining machines. As a result, our revenues from our blockchain products business decreased significantly to US\$8.0 million in 2020. In 2021, the sustained outbreak of COVID-19 continued to disrupt our raw material supplies. Notwithstanding the foregoing, the price of Bitcoin has maintained at a high level with volatility, and investors returned to cryptocurrency and blockchain investment, which had a positive impact on the market. As a result, we generated revenues of US\$39.8 million from our blockchain products business in 2021. We expect the volatility of the Bitcoin price to continue, which may significantly affect our business of operations and financial condition. See “Item 3. Key Information—D. Risk Factors—Risks Relating to Our Business and Industry—Our results of operations have been and are expected to continue to be significantly impacted by the fluctuation of cryptocurrency prices, especially the price of Bitcoin.” We expect our business and results of operations may be materially and adversely affected by the global market panics in the near term. See “Item 3. Key Information—D. Risk Factors—Risks Relating to Our Business and Industry—The global coronavirus COVID-19 outbreak has caused significant disruptions in our business, which we expect may continue to materially and adversely affect our results of operations and financial condition.”

A decrease in the expected economic returns of Bitcoin mining activities and the Bitcoin price may also lead to increase in inventory write-down and credit sales as a result of stagnant demand and decrease in average selling price for our Bitcoin mining machines, which may significantly affect our gross margin and extend the billing cycle of our products. The pandemic, the halving event in 2020 and trade sanctions from various countries led some investors to exercise caution. For example, we recorded write-down for the potentially obsolete, slow-moving inventory and lower of cost or market adjustment of US\$6.3 million, US\$3.6 million and US\$2.2 million in 2019, 2020 and 2021, respectively. If we cannot maintain an appropriate inventory level, we may lose sales and market share to our competitors.

Bitcoin price fluctuated significantly in the past few years and resulted in a corresponding fluctuation in our sale of Bitcoin mining machines. We expect that the Bitcoin price may continue to fluctuate in the future, and as such, we would expect to continue to experience a significant corresponding fluctuation in both sales volumes and average selling prices of Bitcoin mining machines, as well as write-down of inventory, which may erode our profitability in the case of a significant Bitcoin price drop.

Market demand for our mining machines and development of blockchain technology and cryptocurrency markets, especially Bitcoin market

Our current blockchain product is designed for Bitcoin mining. According to the F&S report, sales of Bitcoin computing hardware, the majority of which comprise sales of Bitcoin mining machines, have surged at a CAGR of 61.3% from approximately US\$0.2 billion in 2015 to approximately US\$1.4 billion in 2019 and are expected to further increase at a CAGR of 24.8% to approximately US\$4.3 billion in 2024. Because market demand is dependent on the development of the blockchain technology, as well as innovations in cryptocurrency applications, our results of operations will significantly depend on our ability to keep pace with market demand to attract new customers or retain existing customers as well as to maintain or increase our market share. Our results of operations will also be significantly affected by developments in overall blockchain technology and cryptocurrency markets, and in particular, the Bitcoin market. The Bitcoin market may be affected by various factors, including, among others the Bitcoin price and expected return on Bitcoin related activities such as mining and trading, different views regarding the decentralized nature of cryptocurrencies, acceptance of cryptocurrencies as an investment instrument as well as a currency for payment, competing cryptocurrencies to Bitcoin, and changes in the Bitcoin algorithm and the mechanism of mining.

Performance and cost of our products

The pricing of and demand for our Bitcoin mining machines are closely related to their performance. In general, more advanced process technologies, such as the 7 nm and 8 nm process technology we designed, can accommodate designs that produce ASICs with higher power efficiency. The introduction of new process and design technologies also enables us to gradually lower the production costs of ASICs with comparable computing power. However, the application of such process technologies also commands high initial setup costs, particularly when the new production techniques first become available, which translates to higher per unit costs. We have successfully and independently completed the design of 6nm ASIC chips and the design of a chip for simultaneous Litecoin and Dogecoin mining in 2021. We currently focus on developing our proprietary 5nm ASIC chips and mining machines for non-Bitcoin cryptocurrencies such as Ethereum. As a result, our new generation ASICs using the most advanced process technologies will need to achieve strong sales in order to justify the initial setup costs of the new production techniques and maintain our profitability. At the same time, as the most advanced production capabilities of IC foundries ramp up, the initial high unit cost for IC fabrication may also decrease, which will likely translate to lower fabrication costs and a positive effect on our business, results of operations and financial condition.

Competitiveness in research and development

We are a blockchain technology company with strong application-specific integrated circuit (ASIC) chip design capability, and research and development is key to the success of our blockchain and telecommunications products. Our research and development expenses were US\$13.4 million, US\$8.5 million and US\$6.6 million in 2019, 2020 and 2021, respectively. The research and development expenses decreased due to the global outbreak of COVID-19, which resulted in, among others, travel restrictions, mandatory quarantines to our professional staff, and raw materials supply shortages from our overseas suppliers for research and development, which in turn resulted in lower research and development expenses. Notwithstanding COVID-19, we have resumed our research and development activities in the second half of 2020, and through unremitting efforts, we launched our first self-developed proprietary cryptocurrency exchange platform Ebonex in April 2021 and another self-developed proprietary cryptocurrency exchange platform, also branded Ebonex, in Australia in February 2022. Our exchange is designed to provide users with secure, fast, efficient, and stable trading services in multiple currencies and modes. We will continue to focus on enhancing our product planning and research and development capabilities to enable us to introduce or improve products that can well address evolving customer needs in a timely manner. As existing competitors may introduce new technologies or provide more competitive offerings and more companies may enter the market to compete with us, competition may intensify in the future and consequently our competitiveness and market share may be affected. As a result, our ability to continue offering new and enhanced ASIC chips for Bitcoin mining as well as competitive products and technologies will have a significant impact on our results of operations.

Regulatory environment

We sell mining machines to customers in China and overseas markets. We have historically generated most of our revenues in our blockchain products business from customers in China. We intend to grow our overseas sales in the future. In addition, we also intend to expand into certain new business, such as cryptocurrency mining business and cryptocurrency exchange business. As such, we need to make efforts and incur costs to comply with laws and regulations relating to our business in various jurisdictions. We are subject to certain regulatory uncertainties. See “Item 3. Key Information—D. Risk Factors—Risks Relating to Our Business and Industry—Adverse changes in the regulatory environment in the PRC market could have a material adverse impact on our blockchain products business”, “Item 3. Key Information—D. Risk Factors—Risks Relating to Our Cryptocurrency, Blockchain and Mining Related Businesses—The current regulatory environment in foreign markets, and any adverse changes in that environment, could have a material adverse impact on our blockchain products business and our planned cryptocurrency exchange and financial service platform businesses” and “—Overseas Expansion” below. If the PRC government or a government in any other jurisdiction changes its policy or regulations to prevent or limit the development of Bitcoin or cryptocurrencies generally, the price of Bitcoin and the demand for our mining machines as well as the future development of our proposed cryptocurrency related business would decrease or fail, and our business operations and financial results could be adversely affected. Therefore, our ability to comply with government policies and regulations, and to anticipate and respond to potential changes in government policies and regulations will have a significant impact on our business operations and our overall results of operations.

Production capacity

As a fabless IC design company, we outsource the fabrication process of our ICs to third-party foundry partners, and we outsource the testing and packaging process to third-party testing and packaging partners. We work closely with a limited number of such production partners. We have access to two of the world’s leading wafer foundries. We are also in discussions with another two of the world’s major wafer foundries, in hopes to diversify our supplier sources. We cannot guarantee that our third-party production partners will be able to meet our manufacturing requirements or capacity or that they will not raise their prices. As a result, our ability to quickly respond to market demand and meet production timelines, as well as to price our products competitively, is highly dependent on our collaboration with third-party production partners. If our production partners are unable to meet our production capacity requirements or deliver products that meet our quality standards on a timely basis, our results of operations will be adversely affected. We may also incur significant cash outflow at the early stages of our production process because we are required to make prepayments to some of our third-party production partners to secure their production capacity beforehand, which may affect our liquidity position. In addition, any failure by our third-party production partners to perform their obligations in a timely manner may subject us to counterparty risk and make it difficult or impossible for us to fulfill our customers’ orders, which would harm our reputation and negatively affect our business, results of operations and financial condition.

With our long-established experience and know-how in producing telecommunications products, we have established in-house production capabilities to conduct PCB assembly and system assembly for both mining machines and a wide range of telecommunications products. The volume of our in-house production facilities to conduct PCB assembly and system assembly is largely dictated by the production capacity of our SMT production lines in Hangzhou. We also outsourced some of our production to third-party subcontractors to meet our additional production needs. Our future growth will depend, in part, on our ability to maintain efficient operations at our existing production facilities, our ability to expand our production capacity as needed and the performance of our subcontractors when we are required to outsource part of our production. We seek sufficient production capacity and effectively adjust our production equipment to produce different types of products. We are currently expanding our production capacity by constructing new production facilities, which we expect will increase our capital expenditures and affect our results of operations. Our future growth and results of operations will be affected by our investment in and continual maintenance and upgrading of production facilities.

Expansion and diversification of our product and service offerings

Our blockchain products business has historically contributed most of our revenues. We intend to diversify our product and service offerings and achieve more stable performance by expanding into the upstream and downstream markets of the blockchain technology and cryptocurrency industry value chain. We believe if successful, the development our new businesses will be a key driver for our stable and sustainable growth in the future. We intend to expand our mining machine hosting services and establish mining farms overseas to provide centralized services to miners. We also intend to commence proprietary Bitcoin mining overseas by employing our own mining machine inventory during the market downcycles, the success of which depends on many factors, such as the advancement of computing efficiency, the fluctuation of cryptocurrency prices and the popularity of cryptocurrencies in real economy. We expect the costs for preparation and commencement of our proprietary mining to mainly include energy consumption fees. We have begun exploring and developing a cryptocurrency trading exchange business by launching our self-developed proprietary cryptocurrency exchange platform in 2021. We have established subsidiaries in Australia, Singapore, Canada, the Bahamas, Hong Kong, New Zealand and the United States, and initiated preparatory work, including applying for the relevant regulatory approvals and licenses, to operate our proposed cryptocurrency trading exchanges in certain of these countries and/or regions. As of the date of this annual report, we have established two cryptocurrency exchange platforms outside the PRC, received registration approval from AUSTRAC as a digital currency exchange, acquired a company with an AFSL in Australia, and have received the license and approval to provide company and trust service in Hong Kong; and we are in the process of obtaining relevant licenses and approvals for our subsidiaries in Singapore, Hong Kong, the Bahamas and New Zealand. We also intend to set up a cryptocurrency exchange platform and/or online brokerage services in the United States. See “—Overseas Expansion” below. If and once obtained, the licenses will allow us to operate cryptocurrency exchanges in such countries and/or regions. Meanwhile, we are focused on application development, regulatory compliance and talent recruitment to ramp up execution of our new business plans for the expansion in these countries. However, if our operations at these countries or our execution of business plan prove incorrect, we may incur additional expenses or losses. We also intend to explore the application of blockchain technology into non-cryptocurrency industries. Although we have accumulated extensive industry experience and knowledge in cryptocurrency and blockchain technology industries, we are only at an early stage of executing our plan to launch blockchain-enabled financial business. As a result, our ability to apply our accumulated industry knowledge and operational experience to these new businesses will be critical to our future business growth and prospects. The addition of new businesses such as proprietary mining and operating cryptocurrency exchanges, if successful, may help improve our gross margin and general profitability. Commencement of new businesses, however, may also incur significant costs and experience a prolonged ramp-up period. If any adverse development in such new businesses arises, our results of operations and prospects may be significantly and negatively affected. We may not be able to develop those new businesses as successfully as contemplated, or at all.

Product mix

We develop, manufacture and sell a range of blockchain and telecommunications products. The sales of blockchain products accounted for 82.4%, 42.3% and 77.3% of our total revenues for 2019, 2020 and 2021, respectively, and the sales of telecommunications products accounted for 3.1%, 8.6% and 16.7% of our total revenues for 2019, 2020 and 2021. With the volatility of Bitcoin price and the stagnation of industrial chain caused by COVID-19, the performance of our blockchain product business has fluctuated significantly. Our profitability and financial performance could be affected by the mix of products manufactured and sold in a particular period.

Overseas Expansion

In August 2020, we established wholly-owned subsidiaries in Singapore and Canada in preparation for establishing cryptocurrency exchanges. In October 2020, we established a wholly-owned subsidiary in Australia to apply for an Australian financial services license with the Australian Securities & Investments Commission (the Australian Government body that regulates the Australian financial services industry) and for registration with AUSTRAC (the Australian Government body that regulates Bitcoin exchanges). In June 2021, we established wholly-owned subsidiaries in the U.S. in preparation for establishing a cryptocurrency exchange and online brokerage services in the U.S. and accelerating the construction of compliant mining farms in North America. We carefully selected these countries and/or regions because of what we believe to be a Fintech-friendly regulatory environment. We are at an initial preparatory stage of executing our plan to launch blockchain-enabled financial business to capture the growth opportunity along the value chain of the blockchain industry. As of the date of this annual report, we have received the Money Service Business License from the Financial Transactions and Reports Analysis Centre of Canada, which will allow us to engage in foreign exchange trading, digital currency transferring and dealing in virtual currencies in Canada; registration approval from AUSTRAC as a digital currency exchange, which allows us to offer cryptocurrency exchange services in Australia; acquired a company with an AFSL for engaging in financial services in Australia; and the TCSP license and approval to provide company and trust service business in Hong Kong. In April 2021, we launched our first self-developed proprietary cryptocurrency exchange platform Ebonex and has launched another self-developed proprietary cryptocurrency exchange platform, also branded Ebonex, in Australia in February 2022. We are also in the process of obtaining relevant licenses and approvals for our subsidiaries in Singapore, Hong Kong, the Bahamas and New Zealand. If and once obtained, the licenses will allow us to operate cryptocurrency exchanges in such countries. Meanwhile, we are focused on application development, regulatory compliance and talent recruitment to ramp up execution of our new business plans for the expansion in these countries. We expect such ramp-up will support our future operations and our compliance with local rules and regulations. Our expenses to date to implement our new business plans, including establishing in Canada, Australia, Singapore, Hong Kong, the Bahamas, New Zealand and the United States, have been mainly on server rentals, application development, regulatory compliance, talent acquisition and offices rentals to set up cryptocurrency exchanges in the abovementioned countries. There is no guarantee that we will receive any additional required approvals and licenses for our proposed business in these countries in a timely manner or on commercially reasonable terms, or at all, or that we will commence the proposed business as planned, or at all. If our operations at these countries or our execution of business plan proves incorrect, we may incur additional expenses or losses.

Any restrictions imposed by a foreign government could force us to restructure operations, perhaps significantly, which could result in significant costs and inefficiencies that harm our profitability, or even cause us to cease operations in the applicable jurisdiction. Cryptocurrency is a recent technological innovation and the regulatory schemes to which cryptocurrency and the related exchange may be subject have not been fully explored or developed by foreign jurisdictions. Thus, cryptocurrency faces an uncertain regulatory landscape in many foreign jurisdictions. Various foreign jurisdictions may from time to time adopt laws, regulations or directives that affect our cryptocurrency businesses. Due in part to its international nature and the nascent stage of regulation, along with the limited experience with cryptocurrency, and language barriers between international journalists, translators and regulators, information regarding the regulation of cryptocurrency in various jurisdictions may be incomplete, inaccurate or unreliable. As both the regulatory landscape develops and journalistic familiarity with cryptocurrency increases, mainstream media's understanding of cryptocurrency and the regulation thereof may improve. As we enter into the markets in Australia, Singapore, Hong Kong, the Bahamas, New Zealand and the United States, we expect to continue to monitor the local regulations regarding cryptocurrency and financial service platforms and retain local regulatory counsels. See "Item 3. Key Information—D. Risk Factors—Risks Relating to Our Cryptocurrency, Blockchain and Mining Related Businesses—The current regulatory environment in foreign markets, and any adverse changes in that environment, could have a material adverse impact on our blockchain products business and our cryptocurrency exchange and financial service platform businesses," "Item 3. Key Information—D. Risk Factors—If we are unable to manage our growth or execute our strategies effectively, our business, results of operations and financial condition may be materially and adversely affected" and "Item 3. Key Information—D. Risk Factors— We may not successfully develop, market or launch any future cryptocurrency exchanges or online brokerages or continue operating our existing cryptocurrency exchanges" for details of the associated risks.

Key Components of Results of Operations

Revenues

Revenues represent the sales of goods supplied and services provided to customers in our blockchain products and telecommunications businesses, and provision of services to our customers, primarily mining machine hosting services. We generated revenues primarily from our blockchain products business and mining machine hosting service, mainly including sales of Bitcoin mining machines and related accessories and mining machine hosting services. However, we have halted all mining machine custody services in the PRC at the end of April 2021. The revenue contribution from our blockchain products business decreased in 2020 as compared to 2019, primarily due to the combined impact of COVID-19 and Bitcoin halving event, which significantly affected the expected returns on Bitcoin related activities such as mining, and in turn resulted in a much lower demand and average selling price of our Bitcoin mining machines. In 2021, the spreading of COVID-19 continued to disrupt our raw material supplies; however, the price of Bitcoin has maintained at a high level with volatility, and investors returned to digital currency and blockchain investment, which had a positive impact on the market. Our revenue has increased significantly compared with the previous year.

The following table sets forth the breakdown of our revenues by category, both in absolute amount and as a percentage of total revenues for each category for the periods indicated:

	Years Ended December 31,					
	2019		2020		2021	
	US\$	%	US\$	%	US\$	%
	(in thousands, except percentages)					
Product sales – Bitcoin mining machines and related accessories	89,919	82.4	8,039	42.3	39,756	77.3
Product sales – Telecommunications	3,336	3.1	1,638	8.6	8,567	16.7
Service – Management and maintenance ⁽¹⁾	15,805	14.5	9,327	49.1	3,127	6.0
Total	109,060	100	19,004	100	51,450	100

(1) Primarily includes service fee of mining machine hosting services, maintenance services and training services. As we have halted all mining machine custody services in the PRC at the end of April 2021, our service revenue decreased in 2021. The breakdown of service revenues is set forth below for the periods indicated:

	Years Ended December 31,					
	2019		2020		2021	
	US\$	%	US\$	%	US\$	%
	(in thousands, except percentages)					
Mining machine hosting services	15,728	99.5	9,142	98.0	2,814	90.0
Maintenance services and others	77	0.5	185	2.0	258	8.2
Training services	-	-	-	-	55	1.8
Total	15,805	100.0	9,327	100.0	3,127	100.0

We have historically generated a significant portion of our revenues from sales in China. Only a small proportion of our revenues was generated from sales to customers located in other countries and regions, including exports to Hong Kong, the United States, Central Asia and Southeast Asia. Due to the impact of COVID-19, our overseas sales have decreased in 2020 and 2021. The following table sets forth the breakdown of our revenues by geographical location of our customers, both in absolute amount and as a percentage of total revenue, for the periods indicated:

	Years Ended December 31,					
	2019		2020		2021	
	US\$	%	US\$	%	US\$	%
	(in thousands, except percentages)					
China	95,373	87.5	18,962	99.8	51,433	100.0
Overseas ⁽¹⁾	13,687	12.5	42	0.2	17	0.0
Total	109,060	100.0	19,004	100.0	51,450	100.0

(1) Includes sales to Hong Kong.

Product Sales – Bitcoin Mining Machines and Related Accessories

Revenues from sales of blockchain products primarily comprises sales of Bitcoin mining machines, related modules and accessories. We generated 80.7%, 41.2% and 77.0% of our revenue from sales of Bitcoin mining machines in 2019, 2020 and 2021. Revenues from sales of our Bitcoin mining machines are primary affected by the number of Bitcoin mining machines sold and their average selling price. The following table sets forth the breakdown of sales volume and average selling price (per unit) of mining machines delivered for the periods indicated:

	Years Ended December 31,								
	2019			2020			2021		
	Revenue	Sales volume	Average selling price per unit	Revenue	Sales volume	Average selling price per unit	Revenue	Sales volume	Average selling price per unit
	(US\$ in thousands)	(Unit)	(US\$)	(US\$ in thousands)	(Unit)	(US\$)	(US\$ in thousands)	(Unit)	(US\$)
Mining machines:									
Ebit E9+	204	2,000	102	-	-	-	-	-	-
Ebit E9 Series ⁽¹⁾	11,124	151,233	74	-	-	-	16,467	22,505	732
Ebit E10 Series ⁽²⁾	29,799	87,293	341	-	-	-	23,129	45,073	513
Ebit E12	46,879	49,427	948	7,433	10,921	681	40	83	482
Ebit E15	-	-	-	395	309	1280	-	-	-
Total⁽³⁾	88,006	289,953	304	7,828	11,230	697	39,636	67,661	586

(1) Mainly include Ebit E9.1, Ebit E9.2, Ebit E9.3, Ebit E9.5, E9.6, Ebit E9i and Ebit E9i+ series

We have recognized RMB106 million (approximately \$16.4 million) revenue in the year ended December 31, 2021, as a result of RMB106 million payment received from one of the customers following a court mediation related to a claim the Company brought against the customer for mining machine sales in November 2019. Pursuant to the mediation, the customer will pay us RMB272 million. During the year ended December 31, 2018 when the sales contract was entered into, we determined that the customer did not have the intent or ability to pay as the amounts became due and therefore the collection was not probable. As a result, no revenue was recognized upon the shipments of the mining machines. The RMB106 million has been recognized as revenue pursuant to ASC 606 because the contract has been terminated and the consideration received is nonrefundable. We recognize revenues only to the extent of the consideration received as the collection of the remaining consideration still involves uncertainty. For more information, see “Item 4 Information on the Company – B, Business overview – Legal proceedings.”

(2) Mainly include Ebit E10 and Ebit E10+ series, including Ebit E10.1, Ebit E10.2, Ebit E10.3, Ebit E10.5, E10B and E10C

(3) Exclude revenues from sales of in-process mining machines.

The average selling price of our Bitcoin mining machines changes from period to period and is primarily affected by the Bitcoin price and expected economic returns on Bitcoin mining activities, and the performance of the mining machines.

The Bitcoin price and expected economic returns on Bitcoin mining activities could significantly affect the demand of mining machines and in turn the average selling price of Bitcoin mining machines. See “—Key Factors Affecting Our Results of Operations” for details of factors affecting economic return on Bitcoin mining activities and the market demands. Particularly, a significant fluctuation in Bitcoin price in a short period of time could significantly reverse the trend of average selling price of Bitcoin mining machines in certain periods of time. For example, a significant drop in the Bitcoin price in the first quarter of 2020 and third and fourth quarters of 2021 significantly reduced the average selling price of Bitcoin mining machines in the same periods. Meanwhile, due to the combined impact of COVID-19 and Bitcoin halving event in 2020, which significantly affected the expected returns on Bitcoin related activities such as mining, it reduced the average selling price of our Ebit E12 series products. Notwithstanding the unprecedented uncertainty and volatility in the COVID-19 environment and its adverse impact on the supply chain of raw materials, the price of Bitcoin has maintained at a high level with volatility, which had a positive impact on the market. In the case of limited raw materials, we optimized the hardware architecture and launched a new model E10B, E10C and E9.6, which has achieved rapid growth in sales performance.

In addition, the average selling price is also significantly affected by the performance of the Bitcoin mining machines. The following table sets forth the revenue, total computing power sold and average selling price (per TH/s) of our own brand mining machines for the periods indicated:

	Years Ended December 31,								
	2019			2020			2021		
	Revenue (US\$ in thousands)	Total computing power sold (TH/s)	Average selling price per TH/s (US\$)	Revenue (US\$ in thousands)	Total computing power sold (TH/s)	Average selling price per TH/s (US\$)	Revenue (US\$ in thousands)	Total computing power sold (TH/s)	Average selling price per TH/s (US\$)
Mining machines:									
Ebit E9+	204	18,000	11	-	-	-	-	-	-
Ebit E9 Series ⁽¹⁾	11,124	2,015,935	6	-	-	-	16,467	270,060	61
Ebit E10 Series ⁽²⁾	29,799	1,763,727	17	-	-	-	23,129	1,199,390	19
Ebit E12	46,879	2,174,788	22	7,433	480,524	15	40	3,652	11
Ebit E15	-	-	-	395	18,540	21	-	-	-
Total⁽³⁾	88,006	5,972,450	15	7,828	499,064	16	39,636	1,473,102	27

(1) Mainly include Ebit E9.1, Ebit E9.2, Ebit E9.3, E9.5, E9.6, Ebit E9i and Ebit E9i+ series

RMB106 million revenue was recognized following our receipt of RMB106 million (approximately \$16.4 million) payment from a former customer as a result of a court mediation. Refer to our discussion above.

(2) Mainly include Ebit E10 and Ebit E10+ series, including Ebit E10.1, Ebit E10.2, Ebit E10.3, Ebit E10.5, E10B and E10C

(3) Exclude revenues from sales of in-process mining machines.

In general, the average selling price of our Bitcoin mining machines in terms of computing power decreases as a result of the overall technology advancement which also resulted in a lower unit cost in production of such Bitcoin mining machine. New models launched in the markets generally exert downward pressure on prices of existing models. We typically price our Bitcoin mining machine based on their computing power and reduce the price of the previous generation when we introduce a new generation with higher computing power. For example, the average selling price of our most advanced E10B and E 10C mining machine were much higher than the previous generations of Ebit 9.

Product Sales –Telecommunications

Revenues from our telecommunications business primarily comprises sales of fiber-optic communication access devices and enterprise convergent terminals. We also produce and sell a small portion of related parts and accessories. Sales of our telecommunications products are primarily driven by the demand from the major telecommunications service providers in China as end users. Sales of telecommunications products could also be affected by any adjustment of our business focus and sales and marketing efforts from time to time. Changes in the mix of our telecommunications products sold could also affect the gross profit margin in the telecommunications business.

Service - Management and Maintenance

Revenues from our management and maintenance services include service fees for provision of mining machine hosting services to buyers of our Bitcoin mining machines, and provision of maintenance and other services.

We generate substantially all of these service revenues from mining machine hosting services. Revenues from provision of mining machine hosting services was US\$15.7 million, US\$9.1 million and US\$2.8 million in 2019, 2020 and 2021, representing 99.5%, 98.0% and 90.0% of our total service revenues, respectively. We provided mining machine hosting services only to buyers of our Bitcoin mining machines, and typically entered into separate service agreements with these buyers for such services. We have halted all mining machine custody services in the PRC at the end of April 2021. Revenues from mining machine hosting services mainly include hosting service fees we charge to our customers, which is primarily calculated based on the amount of power consumption (the number of kWh) and the average service fee per kWh. The average service fee per kWh is primarily affected by the utility cost. The average service fee per kWh was generally US\$0.04 throughout 2019, 2020 and April 2021.

Cost of Revenues

Cost of revenues for our mining machines and telecommunications products represents costs and expenses directly attributable to the manufacture of our products sold and delivered, which primarily comprises costs of (1) raw materials, components and parts including wafers; (2) production overhead, including mainly packaging and testing costs, subcontracting cost, amortization and depreciation of intangible assets, production equipment and utilities; (3) direct labor including cost to our production staff and outsourced production workers; and (4) inventory write-down due to the significant decrease of the average Bitcoin price in the first quarter of 2019, and impact of COVID-19 and Bitcoin halving event in 2020, which in turn resulted in a significant decrease in the selling price of our Bitcoin mining machines. The pandemic continued in 2021, and the global market is still gradually warming up. We examined and recorded write-down for the potentially obsolete, slow-moving inventories and lower of cost or market adjustment of US\$6.3 million, US\$3.6 million and US\$2.2 million in 2019, 2020 and 2021.

Our average cost of mining machine per unit primarily comprises and is mainly affected by the unit cost of wafer, number of ASIC chips used, and the types and costs of other components included in or sold with the mining machines. The average per unit cost of wafers is affected by our purchase volume and technology advancement. We generally incur higher per unit cost for models with better performance. The average cost of our mining machine per unit was US\$416, US\$952 and US\$165 in 2019, 2020 and 2021, respectively.

Cost of revenues for mining machine hosting services provided by us primarily consists of space leasing fees, infrastructure and equipment related expense, utility expenses and salaries paid to related staffs.

The following table sets forth the breakdown of our cost of revenues by category, both in absolute amount and as a percentage of the cost of revenues, for the periods indicated:

	Years Ended December 31,					
	2019		2020		2021	
	US\$	%	US\$	%	US\$	%
	(in thousands, except percentages)					
Product sales – Bitcoin mining machines and related accessories	123,451	88.4	11,394	52.0	12,839	57.8
Product sales – Telecommunications	2,465	1.8	1,715	7.8	6,505	29.2
Service – Management and maintenance	13,708	9.8	8,795	40.2	2,883	13.0
Total	139,624	100.0	21,904	100.0	22,227	100.0

Gross Profit/Loss

Our gross profit/loss of sales of Bitcoin mining machines are primarily affected by Bitcoin prices, which have a significant effect on the average selling price of our products, and, to a lesser extent, the average per unit production costs of our Bitcoin mining machines, which in turn resulted in a much lower demand and average selling price of our Bitcoin mining machines, thereby leading to lower revenues. A decrease in the Bitcoin price and expected economic returns of Bitcoin mining activities could lead to increase in write-down for the potentially obsolete, slow-moving inventories and lower of cost or market adjustment as a result of stagnant demand and decrease in average selling price for our Bitcoin. Due to the significant decrease of the average Bitcoin price in 2018 and the first quarter of 2019, and impact of COVID-19 and Bitcoin halving event in 2020, which in turn a significant decrease in the selling price of our Bitcoin mining machines, we recorded write-down for the potentially obsolete, slow-moving inventories and lower of cost or market adjustment of US\$6.3 million and US\$3.6 million and US\$2.2 million in 2019, 2020 and 2021, respectively. Since 2021, countries have been chattering about trade wars and COVID-19 has continued to spread with variants. Notwithstanding the foregoing, the price of Bitcoin has maintained at a high level with volatility, and enterprises have also actively resumed production globally, with investors returning to digital currency and blockchain investment. Our revenue has increased significantly compared with the previous year. The increase in gross profit for the year ended December 31, 2021 is also attributable to revenue recognized following our receipt of RMB106 million (approximately \$16.4 million) payment from a former customer as a result of a court mediation. Refer to our discussion on revenues above.

Our gross profit and gross profit margin of mining machine hosting services provided by us are primarily affected by the average service fees we charge our customers. See “—Results of Operations—Revenues—Service—Management and Maintenance” for factors that could affect the average service fee.

Our gross profit/loss and gross profit/loss margin of sales of telecommunications products are primarily affected by the market price of the product and our cost of revenues.

The following table sets forth our gross profit/loss by category for the periods indicated:

	Years Ended December 31,		
	2019	2020	2021
	US\$	US\$	US\$
	(in thousands)		
Product sales – Bitcoin mining machines and related accessories	(33,532)	(3,355)	26,917
Product sales – Telecommunications	871	(77)	2,062
Service – Management and maintenance	2,097	532	244
Total	(30,564)	(2,900)	29,223

Operating Expenses

The following table sets forth our operating expenses, both in absolute amount and as a percentage of the total operating expenses, for the periods indicated:

	Years Ended December 31,					
	2019		2020		2021	
	US\$	%	US\$	%	US\$	%
	(in thousands, except percentages)					
Selling expenses	1,213	6.0	925	3.9	1,419	5.2
General and administrative expenses ⁽¹⁾	18,871	94.0	22,822	96.1	25,774	94.8
Total operating expenses	20,084	100.0	23,747	100.0	27,193	100.0

(1) Include research and development expenses and other general and administrative expenses. See “—Results of Operations—Operating Expenses—General and Administrative Expenses” for details.

Selling expenses

Selling expenses include (1) sales service costs incurred from provision of customer services; (2) traveling costs of our sales and marketing staff and transportation costs for delivery of blockchain and telecommunications products; and (3) salaries and benefits of our sales and marketing staff; and (4) others, such as conference costs and lease payment for our sales office.

General and administrative expenses

General and administrative expenses primarily include research and development expenses and administrative expenses. Administrative expenses include primarily (1) professional fees, mainly legal service fees and consultant service fees for provision of financing and listing related services to us; (2) salaries and benefits of our management, finance, operations and other staff and outsourced administrative staff; (3) other miscellaneous administrative expenses, such as bad debt expense, entertainment expense, utilities, and rental and office expenses; and (4) depreciation expense of property, plant and equipment and amortization primarily relating to intangible assets.

Research and development expenses primarily include (1) production and procurement expenses for producing prototypes and procuring tools for IC chip design; (2) technical expenses, primarily comprising outsourcing research and development expenses relating to development of certain non-core technologies for our mining machines and telecommunications products, such as wafer fabrication and packaging and testing for ASIC chips, design of user interface, management and structural module and secondary development of certain modules and software development; (3) salaries and benefits of our research and development staff; and (4) depreciation and amortization of non-patent technology.

Taxation

Cayman Islands

Under the current laws of the Cayman Islands, Ebang International is not subject to tax on income or capital gain. Additionally, upon payments of dividends to the shareholders, no Cayman Islands withholding tax will be imposed.

British Virgin Islands

Our subsidiaries incorporated in the British Virgin Islands, primarily Orient Plus International Limited, Power Ebang Limited, Tower Lead Limited, Summit King Limited, Ebang Communication Limited and Ebonex International Limited, are incorporated in the BVI and under the current laws of the British Virgin Islands, are not subject to tax on income or capital gain. In addition, payments of dividend by these subsidiaries to their shareholders are not subject to withholding tax in the BVI.

Hong Kong

Our subsidiaries incorporated in Hong Kong, primarily HK Ebang Communications, HongKong Ebang Technology Co., Ltd. (“HK Ebang Technology”), HK Ebang Digital, Ebang Digital Asset Management Limited (“Ebang Digital Asset Management”), Ebang Digital Asset Custody Limited (“Ebang Digital Asset Custody”) and Ebang Trust Limited (“Ebang Trust”) are incorporated in Hong Kong and are subject to Hong Kong Profits Tax on the taxable income as reported in its statutory financial statements adjusted in accordance with relevant Hong Kong tax laws. The applicable tax rate is 8.25% on assessable profits arising in or derived from Hong Kong up to HKD2,000,000 and 16.5% on any part of assessable profits over HKD2,000,000.

PRC

Our PRC subsidiaries are governed by the income tax laws of the PRC and the income tax provision in respect to operations in the PRC is calculated at the applicable tax rates on the taxable income for the periods based on existing legislation, interpretations and practices in respect thereof. Under the Enterprise Income Tax Laws of the PRC (the “EIT Laws”), domestic enterprises and Foreign Investment Enterprises (the “FIE”) are usually subject to a unified 25% enterprise income tax rate while preferential tax rates, tax holidays and even tax exemption may be granted on case-by-case basis. EIT grants preferential tax treatment to certain High and New Technology Enterprises (“HNTEs”). Under this preferential tax treatment, HNTEs are entitled to an income tax rate of 15%, subject to a requirement that they re-apply for HNTE status every three years. Zhejiang Ebang obtained the “high-tech enterprise” tax status in November 2017, which reduced its statutory income tax rate to 15% from November 2017 to November 2020. Zhejiang Ebang further re-applied and obtained the “high-tech enterprise” tax status in December 2020. Hangzhou Dewang obtained the “high-tech enterprise” tax status in November 2018, which reduced its statutory income tax rate to 15% from November 2018 to November 2021. Hangzhou Dewang further re-applied and obtained the “high-tech enterprise” tax status in December 2021. In addition, Ebang IT obtained the “high-tech enterprise” tax status in December 2021, which reduced its statutory income tax rate to 15% from December 2021 to December 2023.

We were subject to value-added tax, or VAT, at a rate of 17% for the period from beginning of 2018 till end of April 2018, of 16% from May 2018 to the end of March 2019, and of 13% since April 2019 on the gross sales price of our products, less any deductible VAT we have already paid or borne. Entities that are VAT general taxpayers may offset qualified input VAT paid to suppliers against their output VAT liabilities. Net VAT balance between input VAT and output VAT is recorded as VAT payable if output VAT is larger than input VAT, and is recorded as VAT recoverable if input VAT is larger than output VAT. All the VAT returns filed by our subsidiaries in China, have been and remain subject to examination by the tax authorities. Zhejiang Ebang and Ebang IT are qualified as enterprises of selling self-developed software products and enjoying a tax refund for the excess of 3% of their actual tax burden after the VAT is levied at the 17% or 16% or 13% tax rate since January 2011.

Dividends paid by our wholly foreign-owned subsidiaries in China to our intermediary holding companies in Hong Kong will be subject to a withholding tax rate of 10%, unless the relevant Hong Kong entities satisfy all the requirements under the Arrangement between the PRC and the Hong Kong Special Administrative Region on the Avoidance of Double Taxation and Prevention of Fiscal Evasion with respect to Taxes on Income and Capital and receives approval from the relevant tax authority, in which case the dividends paid to the Hong Kong subsidiaries would be subject to withholding tax at the preferential rate of 5%. Effective from November 1, 2015, the above-mentioned approval requirement has been abolished, but a Hong Kong entity is still required to file application package with the relevant tax authority, and settle the overdue taxes if the preferential 5% tax rate is denied based on the subsequent review of the application package by the relevant tax authority.

If our holding company in the Cayman Islands or any of our subsidiaries outside of China were deemed to be a “resident enterprise” under the EIT Law, it would be subject to enterprise income tax on its worldwide income at a rate of 25%. If the PRC tax authorities determine that our Cayman Islands holding company is a “resident enterprise” for PRC EIT purposes, a number of unfavorable PRC tax consequences could follow. See “Item 3. Key Information—D. Risk Factors—Risks Relating to Our Business and Industry—We may be subject to EIT on our worldwide income if our company or any of our subsidiaries were considered a PRC “resident enterprise” under the PRC Enterprise Income Tax Law, or the EIT Law.”

Results of Operations

The following table sets forth our selected consolidated profit or loss data, both in absolute amount and as a percentage of total revenue, for the periods indicated. This information should be read together with our consolidated financial statements and related notes included elsewhere in this report. The operating results in any period are not necessarily indicative of the results that may be expected for any future period.

	Years Ended December 31,		
	2019	2020	2021
	US\$	US\$	US\$
	(in thousands)		
Revenues	109,060	19,004	51,450
Product sales – Bitcoin mining machines and related accessories	89,919	8,039	39,756
Product sales – Telecommunications	3,336	1,638	8,567
Service – Management and maintenance	15,805	9,327	3,127
Cost of revenues	(139,624)	(21,904)	(22,227)
Gross profit (loss)	(30,564)	(2,900)	29,223
Operating expenses:			
Selling expenses	1,213	925	1,419
General and administrative expenses	18,871	22,822	25,774
Total operating expenses	20,084	23,747	27,193
Income (loss) from operations	(50,648)	(26,647)	2,030
Other income (expenses):			
Interest income	217	824	1,780
Interest expenses	(2,041)	(728)	(4)
Other income	85	82	133
Loss from investment	-	-	(3,657)
Exchange gain (loss)	5,694	(288)	1,780
Government grants	6,299	4,007	435
VAT refund	9	-	-
Other expenses	(288)	(109)	(108)
Total other income	9,975	3,788	359
Income (loss) before income taxes provision (benefit)	(40,673)	(22,859)	2,389
Income taxes provision (benefit)	400	9,252	(379)
Net income (loss)	(41,073)	(32,111)	2,768
Less: net income (loss) attributable to non-controlling interest	1,330	(1,436)	(1,663)
Net income (loss) attributable to Ebang International Holdings Inc.	(42,403)	(30,675)	4,431

Year Ended December 31, 2021 Compared to Year Ended December 31, 2020

Revenues. Our revenues increased by 170.7% to US\$51.5 million in 2021 from US\$19.0 million in 2020, primarily due to the following reasons: 1) As the Bitcoin price continued to fluctuate in the high range in 2021, it has driven the enthusiasm and attention of investors. However, our chip suppliers have reduced their production capacity due to the impact of the COVID-19, resulting in our inability to produce at full capacity, insufficient inventory and inability to meet the market demand. With limited raw materials, we optimized the hardware structure, used a new framework and launched new models, which accelerated the sales growth; 2) We have halted all mining machine custody services in the PRC at the end of April 2021 which offset the growth in total revenue; and 3) RMB106 million revenue was recognized following our receipt of RMB106 million (approximately US\$16.4 million) payment from a former customer as a result of a court mediation. See our discussion on revenues above.

Cost of revenues. Our cost of revenues increased by 1.5% to US\$22.2 million in 2021 from US\$21.9 million in 2020, primarily because we have been able to utilize some of the slow-moving inventories impaired in previous years to manufacture products sold in 2021 as a result of our hardware optimization.

Gross profit (loss). As a result of the foregoing, we recorded a gross profit of US\$29.2 million in 2021 as compared to a gross loss of US\$2.9 million in 2020.

Operating expenses. Our total operating expenses increased by 14.5% to US\$27.2 million in 2021 from US\$23.7 million in 2020, primarily due to increase in both selling expenses and general and administrative expenses.

- *Selling expenses.* Our selling expenses increased by 53.3% to US\$1.4 million in 2021 from US\$0.9 million in 2020, in line with the increase in our sales.
- *General and administrative expenses.* Our general and administrative expenses increased by 12.9% to US\$25.8 million in 2021 from US\$22.8 million in 2020, primarily due to increase in overseas expansion.

Income (loss) from operations. As a result of the foregoing, our income from operations was US\$2.0 million in 2021 compared to loss from operation of US\$26.6 million in 2020.

Interest income. Our interest income increased by 115.9% to US\$1.8 million in 2021 from US\$0.8 million in 2020, primarily due to the interest income from our investments in time deposit and financing products in 2021.

Interest expenses. Our interest expenses decreased by 99.4% to US\$4.0 thousand in 2021 from US\$0.7 million in 2020, primarily due to repayment of loan with Hangzhou United Bank in 2021.

Loss from investment. Our loss from investment increased by 100% to US\$3.7 million in 2021 from US\$0 in 2020, the increase in loss from investment was mainly due to investment loss of \$3.9 million from marketable securities, offset by investment income of US\$0.2 million from wealth management products.

Exchange gain (loss). Our exchange gain was US\$1.8 million in 2021 compared to the exchange loss with the amount of US\$0.3 million in 2020, primarily due to the currency fluctuation on our foreign currency denominated assets and liabilities.

Government grants. Our government grants decreased by 89.2% to US\$0.4 million in 2021 from US\$4.0 million in 2020, primarily due to the decrease of non-recurring rebates from local government.

Income taxes provision (benefit). Our income taxes benefits decreased by 104.1% to US\$0.4 million in 2021 compared to the income tax provision with the amount of US\$9.3 million in 2020, primarily due to the allowance on the deferred tax assets based on the economic forecast of the Company's operation in relation to the realization of such deferred tax assets.

Net income (loss). As a result of the foregoing, our net income increased to US\$2.8 million in 2021 from net loss of US\$32.1 million in 2020.

Year Ended December 31, 2020 Compared to Year Ended December 31, 2019

Revenues. Our revenues decreased by 82.6% to US\$19.0 million in 2020 from US\$109.1 million in 2019, primarily due to the combined impact of COVID-19 such as travel restrictions, mandatory quarantines and suspension of business activities have caused severe disruptions and uncertainties to our business operations and adversely affected our results of operations and financial condition. Our chip suppliers have reduced their production capacity due to the impact of the COVID-19, resulting in our shortage of raw materials during the first half of 2020. And together with the Bitcoin halving event, which significantly affected the expected returns on Bitcoin related activities such as mining, and in turn resulted in a much lower demand and average selling price of our Bitcoin mining machines.

Cost of revenues. Our cost of revenues decreased by 84.3% to US\$21.9 million in 2020 from US\$139.6 million in 2019, in line with the changes in our sales and the decrease in inventory write-down.

Gross loss. As a result of the foregoing, we recorded a gross loss of US\$2.9 million in 2020 as compared to a gross loss of US\$30.6 million in 2019.

Operating expenses. Our total operating expenses increased by 18.2% to US\$23.7 million in 2020 from US\$20.1 million in 2019, primarily due to increase in professional fee related to the IPO process in 2020.

- *Selling expenses.* Our selling expenses decreased by 23.7% to US\$0.93 million in 2020 from US\$1.21 million in 2019, in line with the decrease in our sales as well as reduced salary and bonus expenses relating to selling activities.
- *General and administrative expenses.* Our general and administrative expenses increased by 20.9% to US\$22.8 million in 2020 from US\$18.9 million in 2019, primarily due to increase in professional fee related to the IPO process.

Loss from operations. As a result of the foregoing, our loss from operations decreased by 47.4% to US\$26.6 million in 2020 from US\$50.6 million in 2019.

Interest income. Our interest income increased by 279.6% to US\$0.8 million in 2020 from US\$0.2 million in 2019, primarily due to the interest income from our investments in bond in 2020 and our investments in bond in 2019 was nil.

Interest expenses. Our interest expenses decreased by 64.3% to US\$0.7 million in 2020 from US\$2.0 million in 2019, primarily due to repayment of a HK\$38 million loan with a third party in January 2020.

Exchange gain (loss). Our exchange loss was US\$0.3 million in 2020 compared to the exchange gain with the amount of US\$5.7 million in 2019, primarily due to the currency fluctuation on our foreign currency denominated assets and liabilities.

Government grants. Our government grants decreased by 36.4% to US\$4.0 million in 2020 from US\$6.3 million in 2019, primarily due to the decrease of non-recurring rebates from local government.

Income taxes provision. Our income taxes provision increased by 2211.1% to US\$9.3 million in 2020 from US\$0.4 million in 2019, primarily due to the allowance on the deferred tax assets based on the economic forecast of the Company's operation in relation to the realization of such deferred tax assets.

Net loss. As a result of the foregoing, our net loss decreased to US\$32.1 million in 2020 from US\$41.1 million in 2019.

B. Liquidity and capital resources

Our primary source of liquidity historically has been cash generated from our business operations, bank loans, equity contributions from our shareholders and borrowings, which have historically been sufficient to meet our working capital and capital expenditure requirements.

As of December 31, 2021 and 2020, our cash and cash equivalents were US\$239.9 million and US\$13.7 million. Our cash and cash equivalents primarily consist of cash on hand, demand deposits and time deposits placed with banks or other financial institutions and have original maturities of less than three months.

In 2018, we entered into a facility agreement with an amount up to HK\$117.7 million with HTI Advisory Company Limited (formerly known as Haitong International Credit Company Limited) for the purpose of our reorganization. We drew down a loan in Hong Kong dollars with a principal amount equivalent to approximately US\$13.2 million under this facility. The maturity date of the facility agreement was January 10, 2020, and the effective interest rate is 8.6641% per annum. The facility was secured by all of the assets, rights, title, interests and benefits of HK Ebang Technology, our shares owned by Top Max Limited, a company controlled by Mr. Dong Hu, and personal guarantee by Mr. Dong Hu, our controlling shareholder and executive director. We fully repaid the loan and released the securities thereunder in January 2020.

In 2019 and 2020, we obtained several loans from Hong Kong Dewang, a company controlled by a relative of Mr. Dong Hu, with an aggregate principal amount of approximately US\$24.1 million at an interest rate of 4.7500% per annum. The maturity dates of these loans range from June 2022 to May 2023. As of December 31, 2020, we have repaid such loans in full.

In 2020, we obtained a loan from Hangzhou United Bank, with an aggregate principal amount of approximately US\$0.8 million at an interest rate of 5.5000% per annum. The maturity date of the loan was September 7, 2021. As of December 31, 2020, the outstanding balance of this loan is US\$765,967. As of December 31, 2021, we have repaid such loan in full.

In 2019 and 2020, we borrowed certain interest-free credit loans from Zhejiang Wansi Computer Manufacturing Company Limited, or Zhejiang Wansi, a company controlled by the spouse of Mr. Dong Hu, with an aggregate principal amount of approximately US\$8.35 million and payable on demand, and certain interest-free credit loans from Mr. Dong Hu with an aggregate principal amount of approximately US\$0.75 million and payable on demand. As of December 31, 2021, we have repaid loans to Zhejiang Wansi in full.

The weighted average interest rate for all of our borrowings was approximately 10.4%, 4.9%, and 7.5% per annum in 2019, 2020 and 2021, respectively.

We believe that our existing cash and cash equivalents, anticipated cash raised from financings, and anticipated cash flow from operations, together with the net proceeds from this offering, will be sufficient to meet our anticipated cash needs for the next 12 months from the date of this report. We intend to use portion of the net proceeds from this offering to fund our operations over the next 12 months. See “Use of Proceeds.” However, the exact amount of proceeds we use for our operations and expansion plans will depend on the amount of cash generated from our operations and any strategic decisions we may make that could alter our expansion plans and the amount of cash necessary to fund these plans. We may, however, decide to enhance our liquidity position or increase our cash reserve for future investments through additional capital and finance funding. We may need additional cash resources in the future if we experience changes in business conditions or other developments, or if we find and wish to pursue opportunities for investments, acquisitions, capital expenditures or similar actions. If we determine that our cash requirements exceed the amount of cash and cash equivalents we have on hand at the time, we may seek to issue equity or debt securities or obtain credit facilities. The issuance and sale of additional equity would result in further dilution to our shareholders. The incurrence of indebtedness would result in increased fixed obligations and could result in operating covenants that would restrict our operations. We cannot assure you that financing will be available in amounts or on terms acceptable to us, if at all.

Our ability to manage our working capital, including receivables and other assets and liabilities and accrued liabilities, may materially affect our financial condition and results of operations.

The following table sets forth our selected consolidated cash flow data for the periods indicated:

	Years Ended December 31,		
	2019	2020	2021
	US\$	US\$	US\$
	(in thousands)		
Net cash used in operating activities	(13,260)	(15,827)	(14,070)
Net cash used in investing activities	(5,809)	(63,181)	(6,511)
Net cash provided by financing activities	8,548	92,059	248,284
Effect of foreign exchange on cash, cash equivalents and restricted cash	(3,182)	(4,705)	(900)
Net increase (decrease) in cash, cash equivalents and restricted cash	(13,703)	8,346	226,803
Cash, cash equivalents and restricted cash at the beginning of the year	19,481	5,778	14,124
Cash, cash equivalents and restricted cash at the end of the year	5,778	14,124	240,927

Operating Activities

Net cash used in operating activities for 2021 was US\$14.1 million, which primarily reflected our net income of US\$2.8 million as mainly adjusted for (1) depreciation and amortization expenses of US\$6.3 million, (2) write-down for the potentially obsolete, slow-moving inventories and lower of cost or market adjustment of US\$2.2 million, (3) impairment of property plant and equipment adjustments of US\$3.1 million and (4) changes in working capital. Adjustment for changes in working capital primarily consisted of (i) an increase of US\$3.8 million in VAT recoverable, (ii) an increase of US\$5.4 million in net inventories, (iii) a decrease of US\$18.3 million in accrued liabilities and other payables.

Net cash used in operating activities for 2020 was US\$15.8 million, which primarily reflected our net loss of US\$32 million as mainly adjusted for (1) depreciation and amortization expenses of US\$7.2 million, (2) write-down for the potentially obsolete, slow-moving inventories and lower of cost or market adjustment of US\$3.6 million, (3) Allowance for doubtful accounts adjustments of US\$2.7 million, (4) deferred income taxes adjustments of US\$8.6 million, and (5) changes in working capital. Adjustment for changes in working capital primarily consisted of (i) a decrease of US\$9.7 million in inventory due to the reduced amount of mining machine orders received and anticipated for our mining machines in response to the combined impact of COVID-19 and Bitcoin halving event, (ii) a decrease of US\$7.0 million in accrued liabilities and other payables, (iii) a decrease of US\$9.2 million in accounts payable.

Net cash used in operating activities for 2019 was US\$13.3 million, which primarily reflected our net loss of US\$41.1 million as mainly adjusted for (1) depreciation and amortization expenses of US\$8.9 million, (2) write-down for the potentially obsolete, slow-moving inventories and lower of cost or market adjustment of US\$6.3 million and (3) changes in working capital. Adjustment for changes in working capital primarily consisted of (i) a decrease of US\$49.2 million in inventory due to the reduced amount of mining machine orders received and anticipated for our mining machines in response to significant drop in the Bitcoin price in 2018 and the first quarter of 2019 and (ii) a decrease of US\$31.5 million in accounts payable, (iii) a decrease of US\$7.8 million in income tax payable, (iv) a decrease of US\$7.7 million in notes payable, and (v) an increase of US\$6.1 million in VAT recoverable.

Investing Activities

Net cash used in investing activities for 2021 was US\$6.5 million, mainly attributable to (i) Collections from short-term investment of US\$474.4 million, (ii) Cash paid for short-term investment of US\$472.4 million, and (iii) cash paid for the purchases of property, plant and equipment and intangible assets of US\$8.5 million.

Net cash used in investing activities for 2020 was US\$63.2 million, mainly attributable to (i) purchase of property, plant and equipment of US\$10.8 million, (ii) purchase of intangible assets of US\$11.9 million, and (iii) cash paid for the purchase of debt investments of US\$79.9 million and collected from the redemption of such debt investments of US\$39.1 million.

Net cash used in investing activities for 2019 was US\$5.8 million, mainly attributable to purchase of property, plant and equipment of US\$5.8 million.

Financing Activities

Net cash provided by financing activities for 2021 was US\$248.3 million, mainly attributable to (i) issuance of shares for cash of US\$254.7 million in 2021, (ii) repayment to related parties for US\$5.7 million, (iii) repayment of short-term loans of US\$0.8 million.

Net cash provided by financing activities for 2020 was US\$92.0 million, mainly attributable to (i) issuance of common shares for cash of US\$114.2 million in 2020, (ii) repayment to related parties for US\$27.7 million, (iii) proceeds from related party loans of US\$9.6 million and (iv) repayment of short-term loans of US\$4.9 million.

Net cash provided by financing activities for 2019 was US\$8.5 million, mainly attributable to proceeds from loans from related parties of US\$27.4 million and proceeds from short-term loans of US\$7.1 million, partially offset by repayment to related parties of US\$3.4 million, repayment of short-term loans of US\$14.1 million, and repayment of long-term loans of US\$8.3 million.

Capital Expenditures

We made capital expenditures of US\$5.8 million, US\$22.8 million and US\$8.5 million, in 2019, 2020 and 2021, respectively. In these periods, our capital expenditures were mainly used for (1) procurement of equipment such as molds and machinery for the expansion of production capacity and upgrading of production facilities, (2) addition of intangible assets such as software and non-patent technology and license, and (3) expenditures for constructing our production facilities.

We plan to fund our future capital expenditures with our existing cash balance and proceeds from this offering. We will continue to make capital expenditures to meet the expected growth of our business, including for construction of production facilities and procurement of photomask, mold and various intellectual properties.

C. Research and development, patents and licenses, etc.

See “Item 4. Information on the Company—B. Business Overview— Research and Development” and “—Intellectual Property.”

D. Trend information

Other than as disclosed elsewhere in this annual report, we are not aware of any trends, uncertainties, demands, commitments or events for the period from January 1, 2021 to December 31, 2021 that are reasonably likely to have a material effect on our net revenues, income, profitability, liquidity or capital resources, or that would cause the disclosed financial information to be not necessarily indicative of future operating results or financial conditions.

E. Critical Accounting Policies and Estimates

An accounting policy is considered critical if it requires an accounting estimate to be made based on assumptions about matters that are highly uncertain at the time such estimate is made, and if different accounting estimates that reasonably could have been used, or changes in the accounting estimates that are reasonably likely to occur periodically, could materially impact the consolidated financial statements.

We prepare our financial statements in conformity with the U.S. GAAP, which requires us to make judgments, estimates and assumptions. We continually evaluate these estimates and assumptions based on the most recently available information, our own historical experiences and various other assumptions that we believe to be reasonable under the circumstances. Since the use of estimates is an integral component of the financial reporting process, actual results could differ from our expectations as a result of changes in our estimates. Our accounting policies related to revenue recognition, inventories, net, current expected credit losses and impairment of long-lived assets, as disclosed in Note 2 to the consolidated financial statements included in this annual report, require a higher degree of judgment than others in their application and require us to make significant accounting estimates.

When reviewing our financial statements, you should consider our selection of critical accounting policies, the judgments and other uncertainties affecting the application of such policies, and the sensitivity of reported results to changes in conditions and assumptions.

ITEM 6. DIRECTORS, SENIOR MANAGEMENT AND EMPLOYEES

A. Directors and senior management

Our board of directors is currently composed of five members. The table below sets forth certain information concerning our current board of directors and our senior management as of the date of this report. All ages are as of April 29, 2022.

Directors and Executive Officers	Age	Position/Title
Dong Hu	48	Chairman of the Board and Chief Executive Officer
Chunjuan Peng	45	Director and Deputy General Manager
Yanqing Gao	57	Independent Director
Tingjie Lyu	66	Independent Director
Mingming Su	37	Independent Director
Lei Chen	41	Chief Financial Officer

Mr. Dong Hu is our founder and has served as chairman of the board of directors and our chief executive officer since May 2018. He has also served as a director and chief executive officer of Zhejiang Ebang since January 2010. Mr. Hu has over 22 years of experience in the network communication and computing industry. Between August 1998 and August 2009, he was a teacher of the College of Information Engineering at Zhejiang University of Technology. From August 2009, he worked as a teacher of the College of Computer Science and Technology at the same university until October 2017. He is also an executive director of each of Ebang IT, Hangzhou Dewang, Ebang Hongfa, Ebang Jusheng, Hangzhou Ebang Shuotai, Ebang Hongling and Hangzhou Yibang Botong, and a director of HK Ebang Communications, HK Ebang Technology, HK Ebang Information Co., Ltd. and HK Ebang Digital, Ebang Digital Asset Management, Ebang Digital Asset Custody, Ebang Trust, Ebonex Pte. Ltd., Ebonex Australia, and Australia Ebon Pty Ltd. Mr. Hu is primarily responsible for overseeing the sales and marketing, research and development, business strategy and overall management of our company. Mr. Hu graduated from Zhejiang University of Technology with an undergraduate degree in industrial automation in July 1998. In September 2008, Mr. Hu obtained a master of business administration (MBA) degree from Zhejiang University.

Ms. Chunjuan Peng is our deputy general manager and has served as a director since May 2018. She has also served as a deputy general manager of Zhejiang Ebang since January 2010 and a director of Zhejiang Ebang from January 2010 to March 2021. She has served as a director of Korea Ebang Co., Ltd. since February 2021. Ms. Peng has over 17 years of experience in the areas of business operation and production and supply chain management. From September 2003 to January 2010, Ms. Peng was a deputy general manager at Hangzhou Ebang Communication Technology Co., Ltd., where she was responsible for assisting in managing the daily operation of the company. Ms. Peng is mainly responsible for our production and supply chain management, which includes overseeing the procurement of raw materials and production and quality control. Ms. Peng graduated from Jiangxi Normal University with a self-taught associate degree in tourism management in June 1997.

Mr. Yanqing Gao has served as our director since June 2021. He has been a director of Zhejiang Jianxue Technology Co., Ltd. since November 2019, Jiangsu Mole Biotechnology Co., Ltd. since April 2016, Shanghai Xinfangxun Communication Technology Co., Ltd. since November 2015 and Hangzhou Kaipu Technology Co., Ltd. since September 2015. Mr. Gao has also been the deputy manager of Zhejiang Zheke Investment Management Co., Ltd. since May 2012. He was a director of Yuancheng Environment co., Ltd. from June 2013 to November 2018. He also served as a director and the chief financial officer of Zhejiang Tianyuan Biopharmaceutical Co., Ltd. from April 2007 to April 2012. Mr. Gao held various accounting positions with companies in China since 1990. Mr. Gao received his bachelor's degree in accounting from Hangzhou Business School in 1984 and his EMBA from Zhongnan University of Economics and Law in 2008.

Mr. Tingjie Lyu has served as our director since June 2020. He has served as an independent director of China Satellite Communications Co., Ltd., Shenzhen Aisidi Co., Ltd., China Communications Services Corporation Limited and Beijing Digital Telecom Co., Ltd. since May 2016, June 2014, June 2015 and May 2013, respectively. He has also served as a director of Wooboo Mobile Media Co., Ltd. since July 2016. Mr. Lyu has over 37 years of experience in the telecommunications industry. Since June 1985, Mr. Lyu successively served as a teacher, an associate professor and a professor at Beijing University of Posts and Telecommunications, College of Economic Management. Mr. Lyu is also an executive director and an executive vice president of International Telecommunication Association and China Information Economy Society, respectively. Mr. Lyu is the director of each Modern Management Committee of China Communications Society and Communication Technology and Economics Committee of China Association of Technology and Economics and the deputy director of E-commerce Teaching Steering Committee of the Ministry of Education. Mr. Lyu holds a bachelor's degree in radio engineering and a master's degree in management engineering from Beijing University of Posts and Telecommunications and a doctor's degree in engineering from Kyoto University.

Mr. Mingming Su has served as our director since November 2021. Mr. Su has served as Chief Strategy Officer of DouYu International Holdings Limited (“DouYu”), a company that has its American depository shares listed on the Nasdaq Global Select Market, since November 2015 and director of DouYu since October 2016. Mr. Su served as the investment analyst of Shanda Computer (Shanghai) Co., Ltd. from March 2010 to March 2011, the investment manager of Hangzhou Bianfeng Network Technology Co., Ltd. from March 2011 to August 2012 and the vice president of investment at Shenzhen Qingsong Investment Management Partnership (Limited Partnership) from August 2012 to November 2015. Mr. Su obtained his bachelor’s degree majoring in library science and minoring in English from Anhui University in July 2007. Mr. Su also obtained his Master of Management majoring in library science from Chinese Academy of Sciences in March 2010.

Mr. Lei Chen has become our chief financial officer of Ebang International Holdings Inc. since April 24, 2020. Mr. Chen has also served as an independent director for a reputable integrated marketing service provider in China since September 2019. Mr. Chen has over 19 years of experience in the financial and accounting field. He served as a senior auditor at PricewaterhouseCoopers from August 2003 to January 2006, and as an auditing manager at KPMG from January 2006 to August 2009. Between February 2011 and September 2016, Mr. Chen was employed by Hailiang Education Group Inc., initially as a financial consultant and was promoted to chief financial officer in January 2014. Mr. Chen then served as the chief financial officer for a leading fintech service provider in the area of housing provident fund focusing on the online consumer finance market in China from January 2019 to June 2019. Mr. Chen holds a bachelor’s degree in international business and accounting from Guangdong University of Foreign Studies and has been a member of the Chinese Institute of Certified Public Accountants since December 2009.

Board Diversity Disclosure

The following information was provided by our directors on a voluntary basis.

Board Diversity Matrix (As of date of April 29, 2022)

Country of Principal Executive Offices				China
Foreign Private Issuer				Yes
Disclosure Prohibited Under Home Country Law				No
Total Number of Directors				5
	Female	Male	Non-Binary	Did not disclose
Part I: Gender Identity				
Directors	1	4	0	0
Part II: Demographic Background				
Underrepresented Individual in Home Country				0
LGBTQ+				0
Did Not Disclose Demographic Background				0

B. Compensation

Compensation

For the fiscal year ended December 31, 2021, we paid an aggregate of approximately US\$0.77 million in cash to our directors and executive officers, respectively. We have not set aside or accrued any amount to provide pension, retirement or other similar benefits to our directors and executive officers.

Our PRC subsidiaries are required by law to make contributions equal to certain percentages of each employee's salary for his or her medical insurance, maternity insurance, workplace injury insurance, unemployment insurance, pension benefits through a PRC government-mandated multi-employer defined contribution plan and other statutory benefits. Our Hong Kong subsidiaries are required by the Hong Kong Mandatory Provident Fund Schemes Ordinance to make monthly contributions to the mandatory provident fund scheme in an amount equal to at least 5% of an employee's salary.

Employment Agreements and Indemnification Agreements

We have entered into employment agreements with our executive officers. Each of our executive officers is employed for a continuous term unless either we or the executive officer gives prior notice to terminate such employment, or for a specified time period, or for a specified time period which will be renewed automatically unless a notice of non-renewal is given. We may terminate an executive officer's employment for cause at any time with one month's prior notice, including but not limited to as a result of the executive officer's commitments of any serious or persistent breach or non-observance of the terms and conditions of the employment, conviction of a criminal offence, fraud or dishonesty, habitual neglect of his or her duties, material misconduct being inconsistent with the due and faithful discharge of the executive officer's material duties or material breach of internal procedures or regulations which causes damage to the Company. An executive officer may terminate his or her employment at any time with one month's prior written notice.

Each executive officer has agreed to hold, both during and after the employment agreement expires or is earlier terminated, in strict confidence and not to use, except for our benefit, any confidential information of our company, any of its subsidiaries or their customers and suppliers. In addition, each of our executive officers have agreed to be bound by non-solicitation restrictions set forth in their confidentiality agreements with us.

We have entered into indemnification agreements with each of our directors and executive officers. Under these agreements, we agree to indemnify our directors and executive officers against all liabilities and expenses incurred by such persons in connection with claims made by reason of their being a director or officer of our company to the fullest extent permitted by law with certain limited exceptions.

Share Incentive Plan

Our board of directors adopted the 2020 Share Incentive Plan in April 2020, effective from the date of our initial public offering, which was amended and restated on July 9, 2021; and our shareholders adopted the 2021 Share Incentive Plan, effective as of December 15, 2021 at the annual general meeting of shareholders, to attract and retain the best available personnel, provide additional incentives to employees, directors and consultants and promote the success of our business. Under the Amended and Restated 2020 Share Incentive Plan, or the 2020 Plan, the maximum aggregate number of shares that may be issued pursuant to all awards under the 2020 Plan shall be 10,482,827 Class A ordinary shares, representing 8% of the enlarged total issued and outstanding shares of our company immediately upon completion of our initial public offering. Under the 2021 Share Incentive Plan, or the 2021 Plan, the maximum aggregate number of shares that may be issued pursuant to all awards under the 2021 Plan shall be 10,000,000 Class A ordinary shares.

As of the date of this annual report, we have granted 6,550,000 restricted share awards under the 2020 Plan and we did not grant any awards under the 2021 Plan.

The following paragraphs describe the principal terms of the 2020 Plan.

Types of awards. The 2020 Plan permits the awards of options, restricted shares or restricted share units.

Plan administration. Our board of directors or a committee of one or more members of the board of directors administers the 2020 Plan. The committee or the full board of directors, as applicable, will determine the participants to receive awards, the type and number of awards to be granted to each participant, and the terms and conditions of each award grant.

Award agreement. Awards granted under the 2020 Plan are evidenced by an award agreement that sets forth terms, conditions and limitations for each award, which may include the term of the award, the provisions applicable in the event of the grantee's employment or service terminates, and our authority to unilaterally or bilaterally amend, modify, suspend, cancel or rescind the award.

Eligibility. We may grant awards to employees and consultants of our company, our parent company and any of our subsidiaries, our directors, and other individuals, as determined by the plan administrator. However, we may grant options that are intended to qualify as incentive share options only to our employees and employees of our parent companies and subsidiaries.

Vesting schedule. In general, the plan administrator determines the vesting schedule, which is specified in the relevant award agreement.

Exercise of options. The plan administrator determines the exercise price for each award, which is stated in the award agreement. The vested portion of option will expire if not exercised prior to the time as the plan administrator determines at the time of its grant, except that the maximum exercisable term is 10 years from the date of a grant.

The following paragraphs describe the principal terms of the 2021 Plan.

Types of awards. The 2021 Plan permits the awards of options, shares, restricted shares or restricted share units.

Plan administration. Our board of directors or a committee of one or more members of the board of directors administers the 2021 Plan. The committee or the full board of directors, as applicable, will determine the participants to receive awards, the type and number of awards to be granted to each participant, and the terms and conditions of each award grant.

Award agreement. Awards granted under the 2021 Plan are evidenced by an award agreement that sets forth terms, conditions and limitations for each award, which may include the term of the award, the provisions applicable in the event of the grantee's employment or service terminates, and our authority to unilaterally or bilaterally amend, modify, suspend, cancel or rescind the award.

Eligibility. We may grant awards to employees and consultants of our company, our parent company and any of our subsidiaries, our directors, and other individuals, as determined by the plan administrator. However, we may grant options that are intended to qualify as incentive share options only to our employees and employees of our parent companies and subsidiaries.

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C. Board practices

Overview

Directors are expected to provide stewardship in order to promote the long-term success of the Company. They are expected to fulfill their fiduciary duties and duty of care in the best interests of the Company, considering the various needs of its stakeholders (shareholders, employees, communities, suppliers and clients), providing advice to and oversight of management's activities. Within its responsibilities, the board of directors oversees the company's strategic goals; financial statements, control and risk management; core values, integrity and ethical standards; management and board remuneration and succession planning, among others.

Board composition

Our board of directors consists of five directors, including three independent directors. A director is not required to hold any shares in our company to qualify to serve as a director. The Corporate Governance Rules of Nasdaq generally require that a majority of an issuer's board of directors must consist of independent directors. Our board of directors affirmatively determined that Yanqing Gao, Tingjie Lyu and Mingming Su are independent directors, and that we have a majority of independent directors serving on our board of directors.

A director may, subject to any separate requirement for audit committee approval under applicable law, the Articles or the Nasdaq Rules, or disqualification by the chairman of the relevant board meeting, vote in respect of any contract or transaction in which he or she is interested, provided that the nature of the interest of any director in such contract or transaction is disclosed by him or her at or prior to its consideration and any vote in that matter. Our board of directors may exercise all of the powers of our company to borrow money, to mortgage or charge its undertaking, property and uncalled capital, or any part thereof, and to issue debentures, debenture stock or other securities whenever money is borrowed or as security for any debt, liability or obligation of our company or of any third party. None of our directors has a service contract with us that provides for benefits upon termination of service as a director.

Committees of our board of directors

We have established three committees under the board of directors: an audit committee, a compensation committee and a nominating and corporate governance committee. We have adopted a charter for each of the three committees. Each committee's members and functions are described below.

Audit Committee

Our audit committee consists of Mr. Yanqing Gao, Mr. Tingjie Lyu and Mr. Mingming Su. Mr. Yanqing Gao is the chairman of our audit committee. We have determined that each of Mr. Yanqing Gao, Mr. Tingjie Lyu and Mr. Mingming Su satisfies the "independence" requirements of the Rule 5605(c)(2) of the Nasdaq Rules and meets the independence standards under Rule 10A-3 under the Exchange Act. Our board of directors has also determined that Mr. Yanqing Gao qualifies as an "audit committee financial expert" within the meaning of the SEC rules and possesses financial sophistication within the meaning of the Nasdaq Rules.

The audit committee oversees our accounting and financial reporting processes and the audits of our financial statements. The audit committee is responsible for, among other things:

- selecting our independent registered public accounting firm and pre-approving all auditing and non-auditing services performed by our independent registered public accounting firm;
- reviewing with the independent registered public accounting firm any audit problems or difficulties and management's response;
- reviewing and approving all proposed related-party transactions, as defined in Item 404 of Regulation S-K under the Securities Act;
- discussing the annual audited financial statements with management and our independent registered public accounting firm;
- annually reviewing and reassessing the adequacy of our audit committee charter;
- meeting separately and periodically with management and our independent registered public accounting firms;
- reporting regularly to the full board of directors; and
- performing such other matters that are specifically delegated to our audit committee by our board of directors from time to time.

Compensation Committee

Our compensation committee consists of Mr. Dong Hu, Mr. Tingjie Lyu and Mr. Mingming Su. Mr. Dong Hu is the chairman of our compensation committee. We have determined that each of Mr. Tingjie Lyu and Mr. Mingming Su satisfies the “independence” requirements of Rule 5605(a)(2) of the Nasdaq Rules.

The compensation committee assists the board in reviewing and approving the compensation structure, including all forms of compensation, relating to our directors and executive officers. Our chief executive officer may not be present at any committee meeting during which his compensation is deliberated.

The compensation committee is responsible for, among other things:

- reviewing and approving, or recommending to the board for its approval, the compensation for our chief executive officer and other executive officers;
- reviewing and recommending to the board for determination with respect to the compensation of our non-employee directors;
- reviewing and making recommendations to the board of directors with respect to the compensation of our directors;
- reviewing periodically and approving any long-term incentive compensation or equity plans, programs or similar arrangements, annual bonuses, employee pension and welfare benefit plans; and
- selecting compensation consultant, legal counsel or other adviser only after taking into consideration all factors relevant to that person’s independence from management.

Nominating and Corporate Governance Committee

Our nominating and corporate governance committee consists of Ms. Chunjuan Peng, Mr. Yanqing Gao and Mr. Tingjie Lyu. Ms. Chunjuan Peng is the chairperson of our nominating and corporate governance committee. We have determined that each of Mr. Yanqing Gao and Mr. Tingjie satisfies the “independence” requirements of Rule 5605(a)(2) of the Nasdaq Rules.

The nominating and corporate governance committee assists the board of directors in selecting directors and in determining the composition of our board and board committees. The nominating and corporate governance committee is responsible for, among other things:

- identifying and recommending nominees for election or re-election to our board of directors, or for appointment to fill any vacancy;
- reviewing annually with our board of directors its composition in light of the characteristics of independence, age, skills, experience and availability of service to us;
- identifying and recommending to our board the directors to serve as members of committees;
- advising the board periodically with respect to developments in the law and practice of corporate governance as well as our compliance with applicable laws and regulations;
- making recommendations to our board of directors on corporate governance matters and on any corrective action to be taken; and
- monitoring compliance with our code of business conduct and ethics, including reviewing the adequacy and effectiveness of our procedures to ensure compliance.

Duties of Directors

Under Cayman Islands law, our directors owe to us certain fiduciary duties, including a duty of loyalty, a duty to act honestly and a duty to act in what they consider in good faith to be in our best interests. Our directors also have a duty to exercise the skills they actually possess and such care and diligence that a reasonably prudent person would exercise in comparable circumstances.

In fulfilling their duty of care to us, our directors must ensure compliance with our Articles, as amended and restated from time to time.

Our company may have the right to seek damages if a duty owed by our directors is breached.

The functions and powers of our board of directors include, among others:

- convening shareholders' annual general meetings and reporting its business operations to shareholders at such meetings;
- declaring dividends and distributions;
- appointing officers and determining the term of office of officers;
- exercising the borrowing powers of our company and mortgaging the property of our company; and
- approving the transfer of shares of our company, including the registering of such shares in our share register.

Code of Ethics and Corporate Governance

We have adopted a code of ethics, which is applicable to all of our directors, executive officers and employees. We have made our code of ethics publicly available on our website.

In addition, our board of directors have adopted a set of corporate governance guidelines covering a variety of matters, including approval of related party transactions.

Terms of Directors and Officers

Pursuant to the Articles, our officers will be elected by and serve at the discretion of our board of directors. Each of our directors is not subject to a term of office and hold office until such time as he or she resigns or is removed from office by ordinary resolution of our shareholders.

A director will be removed from office automatically if, among other things, the director (1) becomes bankrupt or makes any arrangement or composition with his or her creditors; (2) dies or is found by our company to be of unsound mind; or (3) is removed from office pursuant to any other provisions of our Articles.

Interested Transactions

A director may, subject to any separate requirement for audit committee approval under applicable law, the Articles or the Nasdaq Rules, or disqualification by the chairman of the relevant board meeting, vote in respect of any contract or transaction in which he or she is interested, provided that the nature of the interest of any directors in such contract or transaction is disclosed by him or her at or prior to its consideration and any vote in that matter.

D. Employees

As of December 31, 2021, we had a total of 262 employees, among which, 18 full-time employees were located outside of China.

The following table sets forth a breakdown of our employees by function as of December 31, 2021:

Function	Number of Employees
Management	7
Research and development	107
Production	36
Sales and marketing	26
Finance, operations and others	86
Total	262

The remuneration payable to our employees includes salaries, project incentives, year-end bonuses and allowances. We determine employees' remuneration based on factors including qualifications, contributions and years of experience. In order to maintain the quality, knowledge and skills of our employees, we appreciate the importance of training to employees. We provide regular trainings to our employees, which include orientation training for new employees and continuing on-the-job training for existing employees.

As of December 31, 2021, in addition to full-time employees, we also used approximately 7 workers, primarily in production, under temporary arrangements mainly through labor outsourcing service providers. This arrangement gives us greater flexibility in staffing and work allocation in response to fluctuating work demands. Currently, we do not directly enter into contracts with these workers. Instead, we mainly enter into contracts with the labor outsourcing service providers for the engagement of workers. Our contracts with labor outsourcing service providers have a term of one year, with the right to renew 30 days prior to expiration. The labor outsourcing service providers are required to enter into employment contracts with the workers and to pay salaries. The labor outsourcing providers are generally responsible for paying for social insurance for the workers. We pay to the labor outsourcing service providers an overall service fee calculated based on the number of hours worked, and are obligated to provide the required working conditions, labor protection, education as well as training in operation skills and production safety according to relevant regulations.

E. Share ownership

The following table sets forth information concerning the beneficial ownership of our ordinary shares, as of April 28, 2022 with respect to:

- each of our directors and executive officers; and
- each person known to us to beneficially own more than 5.0% of our ordinary shares.

The calculations in the table below are based on 187,376,337 ordinary shares outstanding as of April 28, 2022, comprising of 140,750,554 Class A ordinary shares and 46,625,783 Class B ordinary shares, assuming the sales of all of the securities we are offering and no exercise of the warrants and excluding ordinary shares reserved for issuance under our Amended and Restated 2020 Share Incentive Plan and 2021 Share Incentive Plan.

Beneficial ownership is determined in accordance with the rules and regulations of the SEC. In computing the number of shares beneficially owned by a person and the percentage ownership of that person, we have included shares that the person has the right to acquire within 60 days of April 28, 2022, including through the exercise of any option, warrant or other right or the conversion of any other security. These shares, however, are not included in the computation of the percentage ownership of any other person.

	<u>Class A ordinary shares</u>	<u>Class B ordinary shares</u>	<u>Percentage of total ordinary shares*** (%)</u>	<u>Percentage of total voting power**** (%)</u>
Directors and Executive Officers**				
Dong Hu ⁽¹⁾	112,493	46,625,783	24.9	86.9
Chunjuan Peng	*	–	*	*
Yanqing Gao	–	–	–	–
Tingjie Lyu	–	–	–	–
Mingming Su	–	–	–	–
Lei Chen	–	–	–	–
All directors and executive officers as a group	874,575	46,625,783	25.4	87.0
Principal Shareholders:				
Affiliates of Dong Hu ⁽¹⁾	112,493	46,625,783	24.9	86.9
CVI Investments, Inc. ⁽²⁾	10,300,000	–	5.5	*

* Represents less than 1% of our total outstanding shares.

** Except as indicated otherwise below, the business address of our directors and executive officers is Building 7, No. 5, Nangonghe Road, Linping Street, Yuhang District, Hangzhou, Zhejiang, 311100, People’s Republic of China

*** For each person and group included in this column, percentage ownership is calculated by dividing the number of shares beneficially owned by such person or group by the sum of the total number of shares outstanding and the number of shares such person or group has the right to acquire upon exercise of option, warrant or other right within 60 days after the date of April 29, 2021.

**** For each person or group included in this column, percentage of total voting power represents voting power based on both Class A and Class B ordinary shares held by such person or group with respect to all outstanding shares of our Class A and Class B ordinary shares as a single class. Each holder of our Class A ordinary shares is entitled to one vote per share. Each holder of our Class B ordinary shares is entitled to 20 votes per share. Our Class B ordinary shares are convertible at any time by the holder into Class A ordinary shares on a one for one basis, while Class A ordinary shares are not convertible into Class B ordinary shares under any circumstances.

(1) Represents (1) 46,625,783 Class B ordinary shares held by Top Max Limited and (2) 112,493 Class A ordinary shares held by Top One Limited. Top Max Limited is a company incorporated in the British Virgin Islands with limited liability wholly owned by Vista Eternity (PTC) Limited, or Vista Eternity, a trustee under the Hu Family Trust in which Mr. Dong Hu, our chairman of the board of directors and chief executive officer, is the settlor and the investment manager. Top One Limited, a company incorporated in the British Virgin Islands, is, among others, approximately 2.2% owned by Mr. Dong Hu. The registered addresses of both of Top Max Limited and Top One Limited is Vistra Corporate Services Centre, Wickhams Cay II, Road Town, Tortola, VG1110, British Virgin Islands.

(2) Heights Capital Management, Inc. (“Heights Capital”), serves as the investment manager to CVI Investments, Inc. (“CVI”), and as such may exercise voting and dispositive power over the Class A ordinary shares held by CVI and may be deemed to beneficially own these Class A ordinary shares. William Walmsley, Director of CVI Investments, Inc., may also be deemed to beneficially own these Class A ordinary shares, as may Brian Sopinsky, Secretary of Heights Capital Management, Inc. Mr. Kobinger disclaims any such beneficial ownership of the securities. Each of Messrs. Walmsley and Sopinsky, CVI and Heights Capital disclaims beneficial ownership of these Class A ordinary shares except to the extent of their pecuniary interest therein. The address of the principal business office of Mr. Walmsley and CVI Investments, Inc. is P.O. Box 309GT, Uglan House, South Church Street, George Town, Grand Cayman, KY1-1104, Cayman Islands. The address of the principal business office of Mr. Sopinsky and Heights Capital Management, Inc. is 101 California Street, Suite 3250, San Francisco, California 94111.

We are not aware of any arrangement that may, at a subsequent date, result in a change of control of our company. To our knowledge, as of April 28, 2022, 139,662,533 Class A ordinary shares, representing 74.5% of our issued and outstanding ordinary shares, were held by one record holder in the United States, which is Cede & Co., a nominee of The Depository Trust Company, and none of our Class B ordinary shares are held by record holders in the United States.

Our ordinary shares are divided into Class A ordinary shares and Class B ordinary shares. Holders of Class A ordinary shares are entitled to one vote per share and the sole holder of Class B ordinary shares is entitled to 20 votes per share. We issued Class A ordinary shares in our initial public offering in June 2020. The sole holder of our Class B ordinary shares may choose to convert its Class B ordinary shares into the same number of Class A ordinary shares at any time. Class A ordinary shares are not convertible into Class B ordinary shares under any circumstance. See “Item 10. Additional Information—B. Memorandum and Articles of Association” for a more detailed description of our Class A ordinary shares and Class B ordinary shares.

ITEM 7. MAJOR SHAREHOLDERS AND RELATED PARTY TRANSACTIONS

A. Major shareholders

See “Item 6. Directors, Senior Management and Employees—E. Share Ownership.”

B. Related party transactions

We have entered into the following transactions with related parties:

Employment Agreements and Indemnification Agreements

See “Item 6. Directors, Senior Management and Employees—B. Compensation—Employment Agreements and Indemnification Agreements.”

Share Incentive Plan

See “Item 6. Directors, Senior Management and Employees—B. Compensation—Share Incentive Plan.”

Other Transactions with Related Parties

Property Tenancy Agreements with Zhejiang Wansi Computer Manufacturing Company Limited

From 2016 through 2019, our three PRC subsidiaries, namely, Zhejiang Ebang, Ebang IT and Hangzhou Dewang, entered into several tenancy property management agreements with Zhejiang Wansi Computer Manufacturing Company Limited, or Zhejiang Wansi. The lease terms range from two to three years. Zhejiang Wansi is 68.68% owned by the spouse of Mr. Dong Hu, our controlling shareholder, chairman of the board of directors and chief executive officer. Zhejiang Wansi is therefore an associate of Mr. Dong Hu. In 2019, 2020 and 2021, lease expenses from Zhejiang Wansi were approximately US\$30,000, US\$30,000 and US\$32,000, respectively. As of December 31, 2020 and 2021, the operating lease liabilities to Zhejiang Wansi are approximately \$17,700 and \$48,800 respectively.

In May 2021, our PRC subsidiary Zhejiang Ebang Communication Technology CO., Ltd. entered into a tenancy property management agreement with Hangzhou Yiquansheng Communication Technology Co., Ltd., or Hangzhou Yiquansheng. The lease term is from May 2021 to December 2023. Hangzhou Yiquansheng is 100% owned by Mr. Dong Hu, our controlling shareholder, chairman of the board of directors and chief executive officer. In 2021, lease expenses from Hangzhou Yiquansheng were approximately US\$379,000. As of December 31, 2021, the operating lease liabilities to Hangzhou Yiquansheng are approximately \$835,000.

Loan Agreements with Related Parties

In 2019 and up to the date of this annual report, we obtained several loans from Hong Kong Dewang Limited, or Hong Kong Dewang, with an aggregate principal amount of approximately US\$24.1 million at an interest rate of 4.7500% per annum. The maturity dates of these loans range from June 2022 to May 2023. Hong Kong Dewang is controlled by a relative of Mr. Dong Hu, our controlling shareholder, chairman of the board of directors and chief executive office, and is therefore an associate of Mr. Dong Hu. As of the date of this report, we have fully repaid such loans. The balance of the loan as of December 31, 2019, 2020 and 2021 was US\$17.6 million, nil and nil, respectively.

In 2019, the Company borrowed approximately \$6.5 million from and repaid approximately \$217,000 to Zhejiang Wansi, a company controlled by the spouse of Mr. Dong Hu. In 2020, the Company borrowed approximately \$1.8 million from and repaid approximately \$2.8 million to Zhejiang Wansi. The balance of the loan as of December 31, 2019, 2020 and 2021 was US\$6.2 million, US\$5.6 million and nil, respectively. As of the date of this annual report, we have repaid both of these loans, in full.

C. Interests of Experts and Counsel

Not applicable.

ITEM 8. FINANCIAL INFORMATION

A. Consolidated statements and other financial information

Financial statements

We have appended consolidated financial statements filed as part of this annual report.

Legal proceedings

See “Item 4. Information on the Company—B. Business Overview—Legal Proceedings.”

For risks and uncertainties relating to the pending cases against us, please see “Item 3. Key Information—D. Risk Factors—Risks Relating to Our Business Operations—We have been involved, and may continue to be involved, in disputes, claims or proceedings arising from our operations or class actions from time to time, which could result in significant liabilities and reputational harm and could materially and adversely affect our business, financial condition and results of operations.”

Dividends and dividend policy

The payment of dividends is at the discretion of our board of directors, subject to our Articles. In addition, our shareholders may by ordinary resolution declare a dividend, but no dividend may exceed the amount recommended by our board of directors. In either case, all dividends are subject to certain restrictions under Cayman Islands law, namely that our company may only pay dividends out of profits or the share premium account, and provided that in no circumstances may a dividend be paid if this would result in our company being unable to pay its debts as they fall due in the ordinary course of business. Even if we decide to pay dividends, the form, frequency and amount will depend upon our future operations and earnings, capital requirements and surplus, general financial condition, contractual restrictions and other factors that the board of directors may deem relevant.

We do not have any present plan to pay any cash dividends on our ordinary shares in the foreseeable future. We currently intend to retain most, if not all, of our available funds and any future earnings to operate and expand our business.

We are a holding company incorporated in the Cayman Islands. We may rely on dividends paid by our subsidiaries in China for our cash requirements, including any payment of dividends to our shareholders. PRC regulations may restrict the ability of our PRC subsidiaries to pay dividends to us. See “Item 3. Key Information—D. Risk Factors—Risks Relating to Conducting Business in China—We may rely on dividends and other distributions on equity paid by our PRC subsidiaries to fund any cash and financing requirements we may have, and any limitation on the ability of our PRC subsidiaries to make payments to us could have a material and adverse effect on our ability to conduct our business.”

B. Significant changes

Except as disclosed elsewhere in this annual report, we have not experienced any significant changes since the date of our audited consolidated financial statements included in this annual report.

ITEM 9. THE OFFER AND LISTING

A. Offering and listing details

Our Class A ordinary shares have been listed on the Nasdaq Global Select Market since June 17, 2020 under the symbol “EBON.”

Our ordinary shares are divided into Class A ordinary shares and Class B ordinary shares. Holders of Class A ordinary shares are entitled to one vote per share and the sole holder of Class B ordinary shares is entitled to 20 votes per share. See “Item 3. Key Information—D. Risk Factors—Risks Relating to Our Securities—Our dual-class voting structure will limit your ability to influence corporate matters and could discourage others from pursuing any change of control transactions that holders of our Class A ordinary shares may view as beneficial.”

B. Plan of distribution

Not applicable.

C. Markets

Our Class A ordinary shares have been listed on the Nasdaq Global Select Market since June 17, 2020 under the symbol “EBON.”

D. Selling shareholders

Not applicable.

E. Dilution

Not applicable.

F. Expenses of the issue

Not applicable.

ITEM 10. ADDITIONAL INFORMATION

A. Share capital

Not applicable.

B. Memorandum and articles of association

We are an exempted company incorporated under the laws of the Cayman Islands and our affairs are governed by our Articles, as amended and restated from time to time, and Companies Act (Revised) of the Cayman Islands, which we refer to as the Companies Act below, and the common law of the Cayman Islands.

The following are summaries of material provisions of our Articles and the Companies Act (Revised) of the Cayman Islands insofar as they relate to the material terms of our ordinary shares.

Ordinary Shares

General

Under our second amended and restated memorandum of association, the objects of our company are unrestricted and we have the full power and authority to carry out any object not prohibited by the law of the Cayman Islands.

Our issued and outstanding ordinary shares consist of Class A ordinary shares and Class B ordinary shares. All of our outstanding ordinary shares, which consist of Class A ordinary shares and Class B ordinary shares, are fully paid and non-assessable. Certificates representing the ordinary shares are issued in registered form. Our shareholders who are non-residents of the Cayman Islands may freely hold and transfer their ordinary shares.

Holders of our Class A ordinary shares and Class B ordinary shares have the same rights except for voting and conversion rights. The Class A ordinary shares and Class B ordinary shares carry equal rights and rank *pari passu* with one another, including the rights to dividends and other capital distributions.

Conversion

Each Class B ordinary share is convertible into one Class A ordinary share at any time by the holder thereof. Class A ordinary shares are not convertible into Class B ordinary shares under any circumstances. Upon any sale of Class B ordinary shares by a holder thereof to any person or entity that is not an affiliate (as defined in our Articles) of such holder, such Class B ordinary shares will be automatically and immediately converted into an equal number of Class A ordinary shares.

Voting Rights

On a show of hands each shareholder is entitled to one vote or, on a poll, each shareholder is entitled to one vote for each Class A ordinary share and 20 votes for each Class B ordinary share, voting together as a single class, on all matters that require a shareholder's vote. Voting at any shareholders' meeting is by show of hands of shareholders who are present in person or by proxy or, in the case of a shareholder being a corporation, by its duly authorized representative, unless a poll is demanded.

A poll may be demanded by the chairman of such meeting or any shareholder present in person or by proxy.

No shareholder shall be entitled to vote or be reckoned in a quorum, in respect of any share, unless such shareholder is duly registered as our shareholder and all calls or instalments due by such shareholder to us have been paid.

An ordinary resolution to be passed at a general meeting requires the affirmative vote of a simple majority of the votes cast, while a special resolution requires the affirmative vote of at least two-thirds of votes attached to all outstanding ordinary shares cast at a general meeting.

Transfer Agent and Registrar

The transfer agent and registrar for the Class A ordinary shares is VStock Transfer, LLC, a California limited liability company with its business address at 18 Lafayette Place, Woodmere, New York 11598.

General Meetings of Shareholders

Our Articles provides that our company may (but shall not be obligated to) hold an annual general meeting of shareholders in each calendar year, subject to Cayman Islands laws and the Nasdaq Rules, in which case we shall specify the meeting as such in the notices calling it, and the annual general meeting shall be held as a physical meeting in any part of the world and/or at one or more locations or as a hybrid meeting or as an electronic meeting, at such time and place as may be determined by our directors.

Shareholders' meetings may be convened by a majority of our board of directors or the chairman of our board of directors. Advance notice of at least ten clear days (as defined in the Articles) is required for the convening of our annual general meeting and any other general meeting of our shareholders. Notwithstanding that a meeting is called by shorter notice than that mentioned above, but, subject to the Companies Act, it will be deemed to have been duly called, if it is so agreed (1) in the case of a meeting called as an annual general meeting by all of our shareholders entitled to attend and vote at the meeting; and (2) in the case of any other meeting, by a majority in number of the shareholders holding not less than 95% in nominal value of the issued shares giving that right.

No business other than the appointment of a chairman may be transacted at any general meeting unless a quorum is present at the commencement of business. However, the absence of a quorum will not preclude the appointment of a chairman. If present, the chairman of our board of directors shall be the chairman presiding at any shareholders' meetings.

A corporation being a shareholder shall be deemed for the purpose of our Articles to be present in person if represented by its duly authorized representative being the person appointed by resolution of the directors or other governing body of such corporation to act as its representative at the relevant general meeting or at any relevant general meeting of any class of our shareholders. Such duly authorized representative shall be entitled to exercise the same powers on behalf of the corporation that he represents as that corporation could exercise if it were our individual shareholder.

Dividends

Subject to the Companies Act, our directors may declare dividends in any currency to be paid to our shareholders. Dividends may be declared and paid out of our profits, realized or unrealized, or from any reserve set aside from profits which our directors determine is no longer needed. Our board of directors may also declare and pay dividends out of the share premium account or any other fund or account that can be authorized for this purpose in accordance with the Companies Act. Except in so far as the rights attaching to, or the terms of issue of, any share otherwise provides, (1) all dividends shall be declared and paid according to the amounts paid up on the shares in respect of which the dividend is paid, but no amount paid up on a share in advance of calls shall be treated for this purpose as paid up on that share and (2) all dividends shall be apportioned and paid pro rata according to the amounts paid up on the shares during any portion or portions of the period in respect of which the dividend is paid.

Our directors may also pay interim dividends, whenever our financial position, in the opinion of our directors, justifies such payment.

Our directors may deduct from any dividend or bonus payable to any shareholder all sums of money (if any) presently payable by such shareholder to us on account of calls or otherwise.

No dividend or other money payable by us on or in respect of any share shall bear interest against us. In respect of any dividend proposed to be paid or declared on our share capital, our directors may resolve and direct that (1) such dividend be satisfied wholly or in part in the form of an allotment of shares credited as fully paid up, provided that our shareholders entitled thereto will be entitled to elect to receive such dividend (or part thereof if our directors so determine) in cash in lieu of such allotment or (2) the shareholders entitled to such dividend will be entitled to elect to receive an allotment of shares credited as fully paid up in lieu of the whole or such part of the dividend as our directors may think fit. Our shareholders may, upon the recommendation of our directors, by ordinary resolution resolve in respect of any particular dividend that, notwithstanding the foregoing, a dividend may be satisfied wholly in the form of an allotment of shares credited as fully paid up without offering any right to shareholders to elect to receive such dividend in cash in lieu of such allotment.

Any dividend interest or other sum payable in cash to the holder of shares may be paid by check or warrant sent by mail addressed to the holder at his registered address, or addressed to such person and at such addresses as the holder may direct. Every check or warrant shall, unless the holder or joint holders otherwise direct, be made payable to the order of the holder or, in the case of joint holders, to the order of the holder whose name stands first on the register in respect of such shares, and shall be sent at his or their risk and payment of the check or warrant by the bank on which it is drawn shall constitute a good discharge to us.

All dividends unclaimed for one year after having been declared may be invested or otherwise made use of by our board of directors for the benefit of our company until claimed. Any dividend unclaimed after a period of six years from the date of declaration of such dividend shall be forfeited and reverted to us.

Whenever our directors have resolved that a dividend be paid or declared, our directors may further resolve that such dividend be satisfied wholly or in part by the distribution of specific assets of any kind, and in particular of paid up shares, debentures or warrants to subscribe for our securities or securities of any other company. Where any difficulty arises with regard to such distribution, our directors may settle it as they think expedient. In particular, our directors may issue fractional certificates, ignore fractions altogether or round the same up or down, fix the value for distribution purposes of any such specific assets, determine that cash payments shall be made to any of our shareholders upon the footing of the value so fixed in order to adjust the rights of the parties, vest any such specific assets in trustees as may seem expedient to our directors, and appoint any person to sign any requisite instruments of transfer and other documents on behalf of the persons entitled to the dividend, which appointment shall be effective and binding on our shareholders.

Transfer of Ordinary Shares

Subject to any applicable restrictions set forth in our Articles, including, for example, the board of directors' discretion to refuse to register a transfer of any share (not being a fully paid up share) to a person of whom it does not approve, or any share issued under share incentive plans for employees upon which a restriction on transfer imposed thereby still subsists, or a transfer of any share to more than four joint holders, any of our shareholders may transfer all or any of his or her shares by an instrument of transfer in the usual or common form or in a form prescribed by the Nasdaq Global Select Market or in another form that our directors may approve.

Our directors may decline to register any transfer of any share which is not paid up or on which we have a lien. Our directors may also decline to register any transfer of any share unless:

- the instrument of transfer is lodged with us and is accompanied by the certificate for the shares to which it relates and such other evidence as our directors may reasonably require to show the right of the transferor to make the transfer;
- the instrument of transfer is in respect of only one class of share;
- the instrument of transfer is properly stamped (in circumstances where stamping is required); and
- a fee of such maximum sum as the Nasdaq Global Select Market may determine to be payable or such lesser sum as our directors may from time to time require is paid to us in respect thereof.

If our directors refuse to register a transfer they shall, within three months after the date on which the instrument of transfer was lodged, send to each of the transferor and the transferee notice of such refusal.

Liquidation

Subject to any future shares which are issued with specific rights, (1) if we are wound up and the assets available for distribution among our shareholders are more than sufficient to repay the whole of the capital paid up at the commencement of the winding up, the excess shall be distributed *pari passu* among those shareholders in proportion to the amount paid up at the commencement of the winding up on the shares held by them, respectively, and (2) if we are wound up and the assets available for distribution among the shareholders as such are insufficient to repay the whole of the paid-up capital, those assets shall be distributed so that, as nearly as may be, the losses shall be borne by the shareholders in proportion to the capital paid up at the commencement of the winding up on the shares held by them, respectively.

If we are wound up (whether the liquidation is voluntary or by the court), the liquidator may with the sanction of our special resolution and any other sanction required by the Companies Act, divide among our shareholders in specie or kind the whole or any part of our assets (whether or not they shall consist of property of the same kind) and may, for such purpose, set such value as the liquidator deems fair upon any property to be divided and may determine how such division shall be carried out as between the shareholders or different classes of shareholders.

The liquidator may also vest the whole or any part of these assets in trustees upon such trusts for the benefit of the shareholders as the liquidator shall think fit, but so that no shareholder will be compelled to accept any assets, shares or other securities upon which there is a liability.

The consideration received by each holder of a Class A ordinary share and a holder of a Class B ordinary share will be the same in any liquidation event.

Calls on Ordinary Shares and Forfeiture of Ordinary Shares

Subject to our Articles and to the terms of allotment, our board of directors may from time to time make calls upon shareholders for any amounts unpaid on their ordinary shares in a notice served to such shareholders at least 14 clear days prior to the specified time of payment. The ordinary shares that have been called upon and remain unpaid are subject to forfeiture.

Redemption of Shares, Repurchase and Surrender of Ordinary Shares

We are empowered by the Companies Act and our Articles to purchase our own shares, subject to certain restrictions. Our directors may only exercise this power on our behalf, subject to the Companies Act, our Articles and to any applicable requirements imposed from time to time by the Nasdaq Global Select Market, the SEC, or by any other recognized stock exchange on which our securities are listed.

We may also repurchase any of our shares on such terms and in such manner as have been approved by our board of directors.

Under the Companies Act, the redemption or repurchase of any share may be paid out of our company's profits or out of the proceeds of a fresh issue of shares made for the purpose of such redemption or repurchase, or out of capital (including share premium account and capital redemption reserve) if the company can, immediately following such payment, pay its debts as they fall due in the ordinary course of business. In addition, under the Companies Act, no such share may be redeemed or repurchased (1) unless it is fully paid up, (2) if such redemption or repurchase would result in there being no shares outstanding, or (3) if the company has commenced liquidation. In addition, our company may accept the surrender of any fully paid share for no consideration.

Variations of Rights of Shares

If at any time, our share capital is divided into different classes of shares, all or any of the special rights attached to any class of shares may, subject to the provisions of the Companies Act, be varied with the sanction of a special resolution passed at a general meeting of the holders of the shares of that class. Consequently, the rights of any class of shares cannot be detrimentally altered without a majority of two-thirds of the vote of all of the shares in that class.

The rights conferred upon the holders of the shares of any class issued with preferred or other rights shall not, unless otherwise expressly provided by the terms of issue of the shares of that class, be deemed to be varied by the creation or issue of further shares ranking *pari passu* with such existing class of shares.

Issuance of Additional Shares

Our Articles authorize our board of directors to issue additional ordinary shares from time to time as our board of directors shall determine, to the extent of available authorized but unissued shares.

Our Articles also authorize our board of directors to establish from time to time one or more series of preference shares and to determine, with respect to any series of preference shares, the terms and rights of that series, including:

- the designation of the series;
- the number of shares of the series;
- the dividend rights, dividend rates, conversion rights, voting rights; and
- the rights and terms of redemption and liquidation preferences.

Our board of directors may issue preference shares without action by our shareholders to the extent authorized but unissued. Issuance of these shares may dilute the voting power of holders of ordinary shares.

C. Material contracts

We have not entered into any material contracts other than in the ordinary course of business and other than those described in "Item 4. Information on the Company—Recent Financings," "Item 7. Major Shareholders and Related Party Transactions—B. Related Party Transactions" or elsewhere in this annual report.

D. Exchange controls

Not applicable.

E. Taxation

The following discussion of Cayman Islands, PRC and United States federal income tax consequences of an investment in Class A ordinary shares is based upon laws and relevant interpretations thereof in effect as of the date of this annual report, all of which are subject to change or differing interpretation, possibly with retroactive effect. This summary does not deal with all possible tax consequences relating to an investment in our Class A ordinary shares, such as the tax consequences under U.S. state and local tax laws or under the tax laws of jurisdictions other than the Cayman Islands, the People's Republic of China and the United States. To the extent that the discussion relates to matters of Cayman Islands tax law, it represents the opinion of Conyers Dill & Pearman, our counsel as to Cayman Islands law, and to the extent it relates to PRC tax law, it represents the opinion of Jingtian & Gongcheng, our counsel as to PRC law.

Cayman Islands Taxation

The Cayman Islands currently levies no taxes on individuals or corporations based upon profits, income, gains or appreciation and there is no taxation in the nature of inheritance tax or estate duty. There are no other taxes likely to be material to us or holders of our ordinary shares levied by the government of the Cayman Islands except for stamp duties which may be applicable on instruments executed in, or after execution brought within the jurisdiction of, the Cayman Islands.

The Cayman Islands is a party to a double tax treaty entered into with the United Kingdom in 2010 but otherwise is not party to any double tax treaties.

There are no exchange control regulations or currency restrictions in the Cayman Islands.

Pursuant to Section 6 of the Tax Concessions Act (2018 Revision) of the Cayman Islands, we have obtained an undertaking from the Governor-in-Cabinet:

(1) that no law which is enacted in the Cayman Islands imposing any tax to be levied on profits or income or gains or appreciation shall apply to us or our operations; and

(2) that the aforesaid tax or any tax in the nature of estate duty or inheritance tax shall not be payable on our shares, debentures or other obligations.

The undertaking for us is for a period of 20 years from May 24, 2018.

PRC Taxation

Income Tax and Withholding Tax

In March 2007, the National People's Congress of China enacted the EIT Law, which became effective on January 1, 2008 (as amended in December 2018). The EIT Law provides that enterprises organized under the laws of jurisdictions outside China with their "de facto management bodies" located within China may be considered PRC resident enterprises and therefore subject to EIT at the rate of 25% on their worldwide income. The Implementing Rules of the EIT Law further defines the term "de facto management body" as the management body that exercises substantial and overall management and control over the business, personnel, accounts and properties of an enterprise.

In April 2009, the SAT issued the Notice Regarding the Determination of Chinese-Controlled Overseas Incorporated Enterprises as PRC Tax Resident Enterprises on the Basis of De Facto Management Bodies, known as Circular 82, which provides certain specific criteria for determining whether the “de facto management body” of a PRC-controlled enterprise that is incorporated offshore is deemed to be located in China. Although Circular 82 only applies to offshore enterprises controlled by PRC enterprises or PRC enterprise groups, not offshore enterprises controlled by PRC individuals or foreigners, the criteria set forth in the circular may reflect the SAT’s general position on how the “de facto management body” test should be applied in determining the tax resident status of all offshore enterprises.

According to Circular 82, a Chinese-controlled enterprise which is incorporated offshore will be regarded as a PRC tax resident by virtue of having its “de facto management body” in China and will be subject to EIT on its global income only if all of the following conditions are satisfied:

- the primary location of the day-to-day operational management and the places where they perform their duties are in the PRC;
- decisions relating to the enterprise’s financial and human resources matters are made or are subject to the approval of organizations or personnel in the PRC;
- the enterprise’s primary assets, accounting books and records, company seals and board and shareholders’ resolutions are located or maintained in the PRC; and
- 50% or more of voting board members or senior executives habitually reside in the PRC.

Pursuant to the EIT Law and the EIT Implementation Rules, except as otherwise provided by relevant tax treaties with the PRC government, dividends paid by foreign-invested investment enterprises to foreign investors which are non-resident enterprises and which have not established or operated premises in the PRC, or which have established or operated premises but where their income has no de facto relationship with such establishment or operation of premises shall be subject to a withholding tax of 10%.

The Administrative Measures for Enterprise Income Tax of Chinese-Controlled Overseas Incorporated Resident Enterprises (Trial Version), or Bulletin 45, further clarifies certain issues related to the determination of tax resident status. Bulletin 45 also specifies that when provided with a resident Chinese-controlled, offshore-incorporated enterprise’s copy of its recognition of residential status, a payer does not need to withhold a 10% income tax when paying certain PRC-source income, such as dividends, interest and royalties to such Chinese-controlled offshore-incorporated enterprise.

We believe that our Cayman Islands holding company, Ebang International Holdings Inc., is not a PRC resident enterprise for PRC tax purposes. Ebang International Holdings Inc. is a company incorporated outside China. As a holding company, its key assets are its ownership interests in its subsidiaries, and its key assets are located, and its records (including the resolutions of its board of directors and the resolutions of its shareholders) are maintained, outside China. As such, we do not believe that our company meets all of the conditions above or is a PRC resident enterprise for PRC tax purposes. For the same reasons, we believe our other entities outside China are not PRC resident enterprises either. However, the tax resident status of an enterprise is subject to determination by the PRC tax authorities and uncertainties remain with respect to the interpretation of the term “de facto management body.” There can be no assurance that the PRC government will ultimately take a view that is consistent with our position and there is a risk that the PRC tax authorities may deem our company as a PRC resident enterprise since a substantial majority of the members of our management team are located in China, in which case we would be subject to EIT at the rate of 25% on worldwide income. If the PRC tax authorities determine that our Cayman Islands holding company is a “resident enterprise” for EIT purposes, a number of unfavorable PRC tax consequences could follow.

One example is a 10% withholding tax would be imposed on dividends we pay to our non-PRC enterprise shareholders and with respect to gains derived by our non-PRC enterprise shareholders from transferring our shares. It is unclear whether, if we are considered a PRC resident enterprise, holders of our shares would be able to claim the benefit of income tax treaties or agreements entered into between China and other countries or areas.

According to the Public Notice Regarding Certain Corporate Income Tax Matters on Indirect Transfer of Properties by Non-Tax Resident Enterprises, or SAT Public Notice 7, which was promulgated by the SAT and became effective on February 3, 2015, if a non-resident enterprise transfers the equity interests of a PRC resident enterprise indirectly by transfer of the equity interests of an offshore holding company (other than a purchase and sale of shares issued by a PRC resident enterprise in the public securities market) without a reasonable commercial purpose, PRC tax authorities have the power to reassess the nature of the transaction and the indirect equity transfer may be treated as a direct transfer. As a result, the gain derived from such transfer, which means the equity transfer price less the cost of equity, will be subject to PRC withholding tax at a rate of up to 10%.

Under the terms of SAT Public Notice 7, a transfer which meets all of the following circumstances shall be directly deemed as having no reasonable commercial purposes if:

- over 75% of the value of the equity interests of the offshore holding company are directly or indirectly derived from PRC taxable properties;
- at any time during the year before the indirect transfer, over 90% of the total properties of the offshore holding company are investments within PRC territories, or in the year before the indirect transfer, over 90% of the offshore holding company's revenue is directly or indirectly derived from PRC territories;
- the function performed and risks assumed by the offshore holding company are insufficient to substantiate its corporate existence; or
- the foreign income tax imposed on the indirect transfer is lower than the PRC tax imposed on the direct transfer of the PRC taxable properties.

On October 17, 2017, the SAT issued the Announcement of the State Administration of Taxation on Issues Concerning the Withholding of Non-resident Enterprises Income Tax at Source, or SAT Bulletin 37, which took effect on December 1, 2017. SAT Bulletin 37 purports to provide further clarifications by setting forth the definitions of equity transfer income and tax basis, the foreign exchange rate to be used in the calculation of the withholding amount and the date on which the withholding obligation arises.

Specifically, SAT Bulletin 37 provides that where the transfer income subject to withholding at source is derived by a non-PRC resident enterprise in instalments, the instalments may first be treated as recovery of costs of previous investments. Upon recovery of all costs, the tax amount to be withheld must then be computed and withheld.

There is uncertainty as to the application of SAT Public Notice 7 and SAT Bulletin 37. SAT Public Notice 7 and SAT Bulletin 37 may be determined by the PRC tax authorities to be applicable to transfers of our shares that involve non-resident investors, if any of such transactions were determined by the tax authorities to lack a reasonable commercial purpose.

As a result, we and our non-resident investors in such transactions may become at risk of being taxed under SAT Public Notice 7 and SAT Bulletin 37, and we may be required to comply with SAT Public Notice 7 and SAT Bulletin 37 or to establish that we should not be taxed under the general anti-avoidance rule of the EIT Law. This process may be costly and have a material adverse effect on our financial condition and results of operations.

Value-added Tax

Under the Circular on Comprehensively Promoting the Pilot Program of the Collection of Value-added Tax to Replace Business Tax, or Circular 36, which was promulgated by the Ministry of Finance and the SAT on March 23, 2016 and became effective on May 1, 2016, entities and individuals engaging in the sale of services, intangible assets or fixed assets within the territory of the PRC are required to pay value added tax, or VAT, instead of business tax.

According to the Circular 36, our PRC subsidiaries and consolidated affiliated entity are subject to VAT, at a rate of 6% to 17% on proceeds received from customers and are entitled to a refund for VAT already paid or borne on the goods purchased by it and utilized in the production of goods or provisions of services that have generated the gross sales proceeds.

According to the Circular of the Ministry of Finance and the SAT on Adjusting Value-added Tax Rates promulgated on April 4, 2018, and effective May 1, 2018, where a taxpayer engages in a taxable sales activity for the value-added tax purpose or imports goods, the previous applicable 17% tax rates are lowered to 16%.

According to the Circular on Policies to Deepen Value-added Tax Reform promulgated by the Ministry of Finance, the SAT, and the General Administration of Customs on March 20, 2019, and effective April 1, 2019, where a taxpayer engages in a taxable sales activity for the value-added tax purpose or imports goods, the previous applicable 16% and 10% tax rates are lowered to 13% and 9% respectively.

Material U.S. Federal Income Tax Considerations

The following discussion is a summary of material U.S. federal income tax considerations relating to the ownership and disposition of our Class A ordinary shares and warrants by a U.S. Holder, as defined below, that acquires the Class A ordinary shares and warrants and holds the Class A ordinary shares and warrants as “capital assets” (generally, property held for investment) under Section 1221 of the United States Internal Revenue Code of 1986, as amended, or the Code. This discussion is based upon existing U.S. federal income tax law as of the date of this annual report, which is subject to differing interpretations or change, possibly with retroactive effect. No ruling has been sought from the Internal Revenue Service, or the IRS, with respect to any U.S. federal income tax consequences described below, and there can be no assurance that the IRS or a court will not take a contrary position. This discussion does not address all aspects of U.S. federal income taxation that may be important to particular investors in light of their individual circumstances, including investors subject to special tax rules (such as, for example, financial institutions, insurance companies, regulated investment companies, real estate investment trusts, broker-dealers, traders in securities that elect mark-to-market treatment, partnerships or other pass-through entities for U.S. federal income tax purposes and their partners or investors, tax-exempt organizations (including private foundations), investors who are not U.S. Holders, investors that own (directly, indirectly, or constructively) ordinary shares representing 10% or more of our stock (by vote or by value), investors that hold their Class A ordinary shares and/or related warrants as part of a straddle, hedge, conversion, constructive sale or other integrated transaction, or investors that have a functional currency other than the U.S. dollar, all of whom may be subject to tax rules that differ significantly from those summarized below. In addition, this discussion does not address any U.S. federal estate, gift or other non-income tax considerations, state, local, or non-U.S. tax considerations, the alternative minimum tax, or the Medicare contribution tax on net investment income. Each potential investor is urged to consult its tax advisor regarding the U.S. federal, state, local and non-U.S. income and other tax considerations of an investment in the Class A ordinary shares and related warrants.

General

For purposes of this discussion, a “U.S. Holder” is a beneficial owner of our Class A ordinary shares and related warrants that is, for U.S. federal income tax purposes, (1) an individual who is a citizen or resident of the United States, (2) a corporation (or other entity or arrangement treated as a corporation for U.S. federal income tax purposes) created in, or organized under the laws of, the United States or any state thereof or the District of Columbia, (3) an estate the income of which is includible in gross income for U.S. federal income tax purposes regardless of its source, or (4) a trust (a) the administration of which is subject to the primary supervision of a U.S. court and which has one or more United States persons (within the meaning of Section 7701(a)(30) of the Code) who have the authority to control all substantial decisions of the trust or (b) that has otherwise elected to be treated as a United States person under the Code.

If a partnership (or other entity or arrangement treated as a partnership for U.S. federal income tax purposes) is a beneficial owner of our Class A ordinary shares and warrants, the tax treatment of a partner in the partnership will depend upon the status of the partner and the activities of the partnership. Partnerships and partners of a partnership holding our Class A ordinary shares and related warrants are urged to consult their tax advisors regarding an investment in our Class A ordinary shares and related warrants.

Passive Foreign Investment Company Considerations

A non-U.S. corporation, such as our company, will be classified as a “passive foreign investment company,” or PFIC, for U.S. federal income tax purposes for any taxable year if either (1) 75% or more of its gross income for such year consists of certain types of “passive” income, or the “income test” or (2) 50% or more of the value of its assets (generally based on an average of the quarterly values of the assets) during such year is attributable to assets that produce or are held for the production of passive income, or the “asset test”. For this purpose, cash and assets readily convertible into cash are categorized as passive assets and the company’s unbooked intangibles associated with active business activities may generally be classified as active assets. Passive income generally includes, among other things, dividends, interest, rents, royalties, and gains from the disposition of passive assets. We will be treated as owning our proportionate share of the assets and earning our proportionate share of the income of any other corporation in which we own, directly or indirectly, more than 25% (by value) of the stock.

While we do not expect to be or become a PFIC in the current or foreseeable taxable years, no assurance can be given in this regard because the determination of whether we will be or become a PFIC is a factual determination made annually that will depend, in part, upon the composition of our income and assets. Furthermore, the composition of our income and assets may also be affected by how, and how quickly, we use our liquid assets and the cash raised in our initial public offering. Under circumstances where our revenue from activities that produce passive income significantly increases relative to our revenue from activities that produce non-passive income, or where we determine not to deploy significant amounts of cash for active purposes, our risk of becoming a PFIC may substantially increase. In addition, because there are uncertainties in the application of the relevant rules, it is possible that the Internal Revenue Service may challenge our classification of certain income and assets as non-passive or our valuation of our tangible and intangible assets, each of which may result in our becoming a PFIC for the current or subsequent taxable years. If we were classified as a PFIC for any year during which a U.S. Holder held our ordinary shares, we generally would continue to be treated as a PFIC for all succeeding years during which such U.S. Holder held our ordinary shares even if we cease to be a PFIC in subsequent years, unless certain elections are made.

The discussion herein under “Dividends” is written on the basis that we will not be or become classified as a PFIC for U.S. federal income tax purposes. If we are treated as a PFIC, the U.S. federal income tax considerations that apply generally are discussed under “Passive Foreign Investment Company Rules.”

Dividends

Subject to the PFIC rules described below, any distributions (including constructive distributions the amount of any PRC tax withheld) paid on the Class A ordinary shares out of our current or accumulated earnings and profits, as determined under U.S. federal income tax principles, will generally be includible in the gross income of a U.S. Holder as dividend income on the day actually or constructively received by the U.S. Holder. Because we do not intend to determine our earnings and profits under U.S. federal income tax principles, any distribution will generally be treated as a “dividend” for U.S. federal income tax purposes. Under current law, a non-corporate recipient of dividend income will generally be subject to tax on dividend income from a “qualified foreign corporation” at the lower rates applicable to “qualified dividend income” rather than the marginal tax rates generally applicable to ordinary income, provided that certain holding period and other requirements are met.

A non-U.S. corporation (other than a corporation that is classified as a PFIC for the taxable year in which the dividend is paid or the preceding taxable year) will generally be considered to be a qualified foreign corporation (1) if it is eligible for the benefits of a comprehensive income tax treaty with the United States that the Secretary of Treasury of the United States determines is satisfactory for purposes of this provision and that includes an exchange of information program, or (2) with respect to any dividend it pays on stock that is readily tradable on an established securities market in the United States. Our Class A ordinary shares are listed on the Nasdaq Global Select Market. We believe, but cannot assure you, that Class A ordinary shares will continue to be considered readily tradable on an established securities market in the United States and that we will be a qualified foreign corporation with respect to dividends paid on the Class A ordinary shares. However, there can be no assurance that the Class A ordinary shares will continue to be considered readily tradable on an established securities market in later years. In the event we are deemed to be a PRC resident enterprise under the Enterprise Income Tax Law (see “—PRC Taxation”), we may be eligible for the benefits of the Agreement Between the Government of the United States of America and the Government of the People’s Republic of China for the Avoidance of Double Taxation and the Prevention of Tax Evasion with Respect to Taxes on Income, or the United States-PRC income tax treaty (that the Secretary of the Treasury of the United States has determined is satisfactory for this purpose), in which case we would be treated as a qualified foreign corporation with respect to dividends paid on our Class A ordinary shares. U.S. Holders are urged to consult their tax advisors regarding the availability of the reduced tax rate on dividends in their particular circumstances. Dividends received on the Class A ordinary shares will not be eligible for the dividends received deduction allowed to qualifying corporations under the Code.

For U.S. foreign tax credit purposes, dividends paid on the Class A ordinary shares will generally be treated as income from foreign sources and will generally constitute passive category income. If we are deemed to be a PRC resident enterprise under the Enterprise Income Tax Law, a U.S. Holder may be subject to PRC withholding taxes on dividends paid, if any, on the Class A ordinary shares. A U.S. Holder may be eligible, subject to complex limitations, to claim a foreign tax credit in respect of any foreign withholding taxes imposed on dividends received on the Class A ordinary shares. A U.S. Holder who does not elect to claim a foreign tax credit for foreign tax withheld may instead claim a deduction for U.S. federal income tax purposes in respect of such withholding, but only for a year in which such holder elects to do so for all creditable foreign income taxes. The rules governing the foreign tax credit are complex. U.S. Holders are urged to consult their tax advisors regarding the availability of the foreign tax credit under their particular circumstances.

Sale or Other Disposition of Ordinary Shares

Subject to the PFIC rules discussed below, a U.S. Holder will generally recognize capital gain or loss, if any, upon the sale or other disposition of Class A ordinary shares and warrants in an amount equal to the difference between the amount realized upon the disposition and the holder's adjusted tax basis in such Class A ordinary shares. Any capital gain or loss will be long-term capital gain or loss if the Class A ordinary shares have been held for more than one year and will generally be U.S. source gain or loss for U.S. foreign tax credit purposes. Long-term capital gains of non-corporate U.S. Holders are currently eligible for reduced rates of taxation. If we are treated as a PRC resident enterprise under the Enterprise Income Tax Law, and gain from the disposition of the ordinary shares is subject to tax in the PRC (see "—PRC Taxation"), such gain may be treated as PRC source gain for foreign tax credit purposes under the United States-PRC income tax treaty. The deductibility of a capital loss may be subject to limitations. U.S. Holders are urged to consult their tax advisors regarding the tax consequences if a foreign tax is imposed on a disposition of the Class A ordinary shares, including the availability of the foreign tax credit under their particular circumstances.

Passive Foreign Investment Company Rules

If we are classified as a PFIC for any taxable year during which a U.S. Holder holds the Class A ordinary shares or warrants, unless the U.S. Holder makes one of certain elections (as described below), the U.S. Holder will, except as discussed below, be subject to special tax rules that have a penalizing effect, regardless of whether we remain a PFIC in subsequent taxable years, on (1) any excess distribution that we make to the U.S. Holder (which generally means any distribution paid during a taxable year to a U.S. Holder that is greater than 125% of the average annual distributions paid in the three preceding taxable years or, if shorter, the U.S. Holder's holding period for the ordinary shares or warrants), and (2) any gain realized on the sale or other disposition, including, under certain circumstances, a pledge, of Class A ordinary shares or warrants. Under the PFIC rules:

- the excess distribution and/or gain will be allocated ratably over the U.S. Holder's holding period for the Class A ordinary shares or warrants;
- the amount of the excess distribution or gain allocated to the taxable year of distribution or gain and to any taxable years in the U.S. Holder's holding period prior to the first taxable year in which we are classified as a PFIC (each such taxable year, a pre-PFIC year) will be taxable as ordinary income;
- the amount of the excess distribution or gain allocated to each prior taxable year, other than a pre-PFIC year, will be subject to tax at the highest tax rate in effect applicable to the individuals or corporations, as appropriate, for that year, and will be increased by an additional tax equal to interest on the resulting tax deemed deferred with respect to each such year.

If we are a PFIC for any taxable year during which a U.S. Holder holds the Class A ordinary shares or warrants and any of our non-U.S. subsidiaries or other corporate entities in which we own equity interests is also a PFIC, such U.S. Holder would be treated as owning a proportionate amount (by value) of the shares of the lower-tier PFIC for purposes of the application of these rules. Each U.S. Holder is advised to consult its tax advisors regarding the application of the PFIC rules to any of our lower-tier PFICs.

If we are a PFIC for any taxable year during which a U.S. Holder holds the Class A ordinary shares or warrants, we will continue to be treated as a PFIC with respect to such U.S. Holder for all succeeding taxable years during which the U.S. Holder holds the Class A ordinary shares or warrants, unless we were to cease to be a PFIC and the U.S. Holder makes a “deemed sale” election with respect to the Class A ordinary shares or warrants. If such election is made, the U.S. Holder will be deemed to have sold its ordinary shares or warrants at their fair market value and any gain from such deemed sale would be subject to the rules described in the preceding two paragraphs. After the deemed sale election, so long as we do not become a PFIC in a subsequent taxable year, the Class A ordinary shares or warrants with respect to which such election was made will not be treated as shares in a PFIC and, as a result, the U.S. Holder will not be subject to the rules described above with respect to any “excess distribution” the U.S. Holder receives from us or any gain from an actual sale or other disposition of the Class A ordinary shares or warrants. Each U.S. Holder is strongly urged to consult its tax advisors as to the possibility and consequences of making a deemed sale election if we are and then cease to be a PFIC and such an election becomes available to the U.S. Holder.

As an alternative to the foregoing rules, a U.S. Holder of “marketable stock” in a PFIC may make a mark-to-market election with respect to the Class A ordinary shares (but not the warrants), provided that the Class A ordinary shares are “regularly traded” (as specially defined in the applicable United States Treasury Regulations) on the Nasdaq Global Select Market, which is a qualified exchange or other market for these purposes. We expect that our Class A ordinary shares will be treated as marketable stock upon their listing on the Nasdaq Global Select Market, but no assurances can be given in this regard. If a mark-to-market election is made, the U.S. Holder will generally (1) include as ordinary income for each taxable year that we are a PFIC the excess, if any, of the fair market value of Class A ordinary shares held at the end of the taxable year over the U.S. Holder’s adjusted tax basis in such Class A ordinary shares and (2) deduct as an ordinary loss the excess, if any, of the U.S. Holder’s adjusted tax basis in the Class A ordinary shares over the fair market value of such Class A ordinary shares held at the end of the taxable year, but only to the extent of the net amount previously included in income as a result of the mark-to-market election. The U.S. Holder’s adjusted tax basis in the Class A ordinary shares would be adjusted to reflect any income or loss resulting from the mark-to-market election. If a U.S. Holder makes an effective mark-to-market election in any year that we are a PFIC, any gain recognized upon the sale or other disposition of the Class A ordinary shares will be treated as ordinary income and any loss will be treated as ordinary loss, but only to the extent of the net amount previously included in income as a result of the mark-to-market election.

If a U.S. Holder makes a mark-to-market election in respect of a corporation classified as a PFIC and such corporation ceases to be classified as a PFIC, the U.S. Holder will not be required to take into account the mark-to-market gain or loss described above during any period that such corporation is not classified as a PFIC.

Because a mark-to-market election cannot be made for any lower-tier PFICs that we may own, a U.S. Holder who makes a mark-to-market election with respect to the Class A ordinary shares may continue to be subject to the general PFIC rules with respect to such U.S. Holder’s indirect interest in any of our non-U.S. subsidiaries or other corporate entities in which we own equity interests that is classified as a PFIC.

We do not intend to provide information necessary for U.S. Holders to make qualified electing fund elections, which, if available, would result in tax treatment different from the general tax treatment for PFICs described above.

As discussed above under “Dividends,” dividends that we pay on the Class A ordinary shares will not be eligible for the reduced tax rate that applies to qualified dividend income if we are classified as a PFIC for the taxable year in which the dividend is paid or the preceding taxable year. In addition, if a U.S. Holder owns the Class A ordinary shares or warrants during any taxable year that we are a PFIC, the holder must file an annual information return with the IRS. Each U.S. Holder is urged to consult its tax advisor concerning the U.S. federal income tax consequences of purchasing, holding, and disposing Class A ordinary shares or warrants if we are or become a PFIC, including the possibility of making a mark-to-market election and the unavailability of the qualified electing fund election.

Information Reporting and Backup Withholding

Certain U.S. Holders are required to report information to the IRS relating to an interest in “specified foreign financial assets” (as defined in the Code), including shares and warrants issued by a non-United States corporation, for any year in which the aggregate value of all specified foreign financial assets exceeds \$50,000 (or a higher dollar amount prescribed by the IRS), subject to certain exceptions (including an exception for shares held in custodial accounts maintained with a U.S. financial institution). These rules also impose penalties if a U.S. Holder is required to submit such information to the IRS and fails to do so.

In addition, U.S. Holders may be subject to information reporting to the IRS and backup withholding with respect to dividends on and proceeds from the sale or other disposition of the Class A ordinary shares or warrants. Information reporting will generally apply to payments of dividends on, and to proceeds from the sale or other disposition of, Class A ordinary shares or warrants by a paying agent within the United States to a U.S. Holder, other than U.S. Holders that are exempt from information reporting and properly certify their exemption. A paying agent within the United States will be required to withhold at the applicable statutory rate, currently 24%, in respect of any payments of dividends on, and the proceeds from the disposition of, Class A ordinary shares or warrants within the United States to a U.S. Holder (other than U.S. Holders that are exempt from backup withholding and properly certify their exemption) if the holder fails to furnish its correct taxpayer identification number or otherwise fails to comply with applicable backup withholding requirements. U.S. Holders who are required to establish their exempt status generally must provide a properly completed IRS Form W-9.

Backup withholding is not an additional tax. Amounts withheld as backup withholding may be credited against a U.S. Holder’s U.S. federal income tax liability. A U.S. Holder generally may obtain a refund of any amounts withheld under the backup withholding rules by filing the appropriate claim for refund with the IRS in a timely manner and furnishing any required information. Each U.S. Holder is advised to consult with its tax advisor regarding the application of the United States information reporting rules to their circumstances.

F. Dividends and paying agents

Not applicable.

G. Statement by experts

Not applicable.

H. Documents on display

We are subject to the informational requirements of the Exchange Act. Accordingly, we are required to file reports and other information with the SEC, including annual reports on Form 20-F and reports on Form 6-K. The SEC maintains an Internet website that contains reports and other information about issuers, like us, that file electronically with the SEC. The address of that website is www.sec.gov. As a foreign private issuer, we are exempt from the rules under the Exchange Act prescribing the furnishing and content of quarterly reports and proxy statements, and officers, directors and principal shareholders are exempt from the reporting and short-swing profit recovery provisions contained in Section 16 of the Exchange Act.

I. Subsidiary information

Not applicable.

ITEM 11. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Concentration of Credit Risk

Financial instruments that potentially expose us to concentrations of credit risk consist primarily of cash and cash equivalents and accounts receivable. We place our cash and cash equivalents with financial institutions with high credit ratings and quality.

We conduct credit evaluations of customers, and generally do not require collateral or other security from our customers. We establish an allowance for doubtful accounts primarily based upon the age of the receivables and factors surrounding the credit risk of specific customers.

Liquidity Risk

Our policy is to regularly monitor our liquidity requirements and our compliance with lending covenants, to ensure that we maintain sufficient reserves of cash and readily realizable marketable securities and adequate committed lines of funding from major financial institutions to meet its liquidity requirements in the short and longer term. see “Item 5. Operating and Financial Review and Prospects—B. Liquidity and Capital Resources.”

Currency Risk

Our operations are primarily in China. Our reporting currency is denominated in U.S. dollars. We are exposed to currency risk primarily through sales and purchases which give rise to receivables, payables and cash balances that are denominated in a currency other than the functional currency of the operations to which the transactions relate. Thus, our revenues and results of operations may be impacted by exchange rate fluctuations between RMB, Hong Kong dollars, Euros and U.S. dollars. We incurred a foreign currency translation loss of US\$1.2 million in 2019, and foreign currency translation gains of US\$1.5 million and US\$0.8 million in 2020 and 2021, respectively, as a result of changes in the exchange rate.

Inflation

To date, inflation in China and Hong Kong has not materially affected our results of operations. According to the National Bureau of Statistics of China, the year-over-year percent changes in the consumer price index for December 2019, 2020 and 2021 were increases of 4.5%, 0.2% and 1.5%, respectively, and according to the Census and Statistics Department of Hong Kong, the year-over-year percent changes in the consumer price index for December 2019, 2020 and 2021 were increase of 2.9%, decrease of 0.7% and increase of 1.6%, respectively. Although we have not been materially affected by inflation in the past, we may be affected if China or Hong Kong experiences higher rates of inflation in the future.

ITEM 12. DESCRIPTION OF SECURITIES OTHER THAN EQUITY SECURITIES

A. Debt securities

Not applicable.

B. Warrants and rights

Not applicable.

C. Other securities

Not applicable.

D. American Depositary Shares

Not applicable.

PART II

ITEM 13. DEFAULTS, DIVIDEND ARREARAGES AND DELINQUENCIES

A. Defaults

No matters to report.

B. Arrears and delinquencies

No matters to report.

ITEM 14. MATERIAL MODIFICATIONS TO THE RIGHTS OF SECURITY HOLDERS AND USE OF PROCEEDS

Material Modifications to the Rights of Security Holders

On December 15, 2021, at our annual general meeting of shareholders (the “2021 Annual Meeting”), our shareholders approved certain amendments to our amended and restated memorandum and articles of association of the Company (the “Amended M&A”). In place of the Amended M&A, a second amended and restated memorandum and articles of association reflecting the amendments (the “Second Amended M&A”) was approved by our shareholders by special resolutions in substitution for and to the exclusion of the Amended M&A. As required under Cayman Islands law, the Second Amended M&A was filed with the Registrar of Companies in the Cayman Islands on December 20, 2021. As amended, the Second Amended M&A provides, among others, (i) that our company may (but shall not be obligated to) hold an annual general meeting of shareholders in each calendar year, subject to Cayman Islands laws and the rules of the Nasdaq Stock Market LLC; and (ii) that instead of, or in addition to, a holding of a physical meeting, we may hold an annual general meeting or an extraordinary general meeting by means of either a physical meeting in any part of the world and/or at one or more locations as a hybrid meeting or as an electronic meeting, at such time and place as may be determined by our directors.

See “Item 10—Additional Information—B. Memorandum and Articles of Association—Ordinary Shares” for a description of the rights of securities holders.

Use of Proceeds

In June 2020, we completed our initial public offering in which we offered and sold an aggregate 19,264,337 of our Class A ordinary shares, at an initial offering price of US\$5.23 per Class A ordinary share. The registration statement on Form F-1, as amended (File No. 333-237843) in connection with the initial public offering was declared effective by the SEC on June 25, 2020. AMTD Global Markets Limited, Loop Capital Markets LLC and Prime Number Capital LLC were the representatives of the underwriters for our initial public offering. We received net proceeds of approximately US\$91.7 million, after deducting underwriting discounts and commissions and estimated offering expenses payable by us. The total expenses incurred for our company’s account in connection with our initial public offering was approximately US\$9.1 million, which included US\$7.1 million in underwriting discounts and commissions for the initial public offering and approximately US\$2 million in other costs and expenses for our initial public offering. None of the transaction expenses included payments to directors or officers of our company or their associates, persons owning more than 10% or more of our equity securities or our affiliates. None of the net proceeds we received from the initial public offering were paid, directly or indirectly, to any of our directors or officers or their associates, persons owning 10% or more of our equity securities or our affiliates. For the period from June 25, 2020 to December 31, 2021, we had used approximately US\$53.92 million of the net proceeds received from our initial public offering for (i) expansion of overseas business and new businesses, including establishing research and development centers and taking selling and marketing initiatives overseas, (ii) development and introduction of new mining machines, (iii) corporate branding and marketing activities, and (iv) general corporate purposes, including working capital needs and other corporate uses. We still intend to use the balance of the net proceeds from our initial public offering as disclosed in the registration statement.

From November 2020 to April 2021, we received net proceeds of an aggregate of approximately US\$209 million through follow-on public offerings in connection with three registration statements on Form F-1, as amended (File Nos. 333-249647, 333-252804 and 333-254787, respectively). The offerings were priced at US\$5.25, US\$5.00 and US\$6.1 per unit, respectively, with each unit consisting of one Class A ordinary share and one warrant to purchase one-half of one Class A ordinary share. The registration statements were declared effective by the SEC on November 17, 2020, February 10, 2021 and March 31, 2021, respectively. The total expenses incurred for our company’s account in connection with these offerings were approximately US\$14.4 million, which included US\$13.4 million in placement agent fees and approximately US\$1 million in other costs and expenses for these offerings. Univest Securities, LLC was the placement agent for these offerings. None of the transaction expenses in connection with these offerings included payments to directors or officers of our company or their associates, persons owning more than 10% or more of our equity securities or our affiliates. None of the net proceeds we received from these follow-on public offerings were paid, directly or indirectly, to any of our directors or officers or their associates, persons owning 10% or more of our equity securities or our affiliates. For the Period from November 17, 2020 to December 31, 2021, we had used approximately US\$33.42 million of the net proceeds received from our follow-on offerings for (i) development and application of blockchain technology into financial services, (ii) research, development, production and sales of ASICs and equipment related to cryptocurrencies, (iii) expansion of our cryptocurrency mining business as well as establishment and operation of cryptocurrency mining farms, and (iv) establishment and operation of cryptocurrency exchange platforms. We still intend to use the net proceeds from such offerings as disclosed in their respective registration statements.

ITEM 15. CONTROLS AND PROCEDURES

A. Disclosure Controls and Procedures

As of December 31, 2021, under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, we performed an evaluation of the effectiveness of the design and operation of our disclosure controls and procedures (as defined in Rule 13a-15(e) under the Exchange Act). There are inherent limitations to the effectiveness of any disclosure controls and procedures system, including the possibility of human error and circumventing or overriding them. Even if effective, disclosure controls and procedures can provide only reasonable assurance of achieving their control objectives.

Based on such evaluation, our Chief Executive Officer and Chief Financial Officer concluded that our disclosure controls and procedures were not effective as of December 31, 2021 and as of the date that the evaluation of the effectiveness of our disclosure controls and procedures was completed, failed to provide reasonable assurance that the information we are required to disclose in the reports we file or submit under the Exchange Act is (1) recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms and (2) accumulated and communicated to our management to allow timely decisions regarding required disclosures.

B. Management's Annual Report on Internal Control over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as defined in Rule 13a-15(f) and 15d-15(f) under the Exchange Act. Our management evaluated the effectiveness of our internal control over financial reporting, as required by Rule 13a-15(c) of the Exchange Act, based on criteria established in the framework in Internal Control-Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on this evaluation, our management has concluded that our internal control over financial reporting was not effective as of December 31, 2021 due to a material weakness identified in our internal control over financial reporting as described below.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. In addition, projections of any evaluation of effectiveness of our internal control over financial reporting to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies and procedures may deteriorate.

Internal Control Over Financial Reporting

During the audit of our financial statements for the year ended December 31, 2021, one material weakness was identified in our internal control over financial reporting. As defined in the standards established by the Public Company Accounting Oversight Board of the United States, 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 the company's annual or interim financial statements will not be prevented or detected on a timely basis. The material weakness identified is related to the lack of sufficient accounting personnel with appropriate experience and knowledge in financial reporting in accordance with U.S. GAAP.

We are in the process of implementing a number of measures to improve our internal control over financial reporting to address the material weakness identified, including: (1) in addition to the CFO and the financial controller, hiring more qualified resources including reporting manager, equipped with relevant U.S. GAAP and SEC reporting experience and qualifications to strengthen the financial reporting function and to set up a financial and system control framework, (2) implementing regular and continuous U.S. GAAP accounting and financial reporting training programs for our accounting and financial reporting personnel, and (3) enhancing an internal audit function as well as engaging an external consulting firm to help us assess our compliance readiness under rule 13a-15 of the Exchange Act and improve overall internal control.

However, we cannot assure you that we will remediate our material weakness in a timely manner. The process of designing and implementing an effective financial reporting system is a continuous effort that requires us to anticipate and react to changes in our business and the economic and regulatory environments and to expend significant resources to maintain a financial reporting system that is adequate to satisfy our reporting obligation. See “Item 3. Key Information—D. Risk Factors—Risks Relating to Our Business and Industry—If we fail to implement and maintain an effective system of internal controls, we may be unable to accurately or timely report our results of operations or prevent fraud, and investor confidence and the market price of our Class A ordinary shares may be materially and adversely affected.” Additionally, we cannot assure you that we have identified all, or that we will not in the future have additional, material weaknesses.

C. Attestation Report of the Registered Public Accounting Firm

As a company with less than US\$1.07 billion in revenue for our last fiscal year, we qualify as an “emerging growth company” pursuant to the JOBS Act. An emerging growth company may take advantage of specified reduced reporting and other requirements that are otherwise applicable generally to public companies. These provisions include exemption from the auditor attestation requirement under Section 404 of the Sarbanes-Oxley Act of 2002, in the assessment of the emerging growth company’s internal control over financial reporting.

D. Changes in Internal Control over Financial Reporting

Subject to the above, there were no other changes in the Company’s internal control over financial reporting that occurred during the year ended December 31, 2021, that have materially affected, or are reasonably likely to materially affect, our internal controls over financial reporting.

ITEM 16. [RESERVED]

ITEM 16A. Audit committee financial expert

We have determined that Yanqing Gao, Tingjie Lyu and Mingming Su are independent, as such term is defined under SEC rules applicable to foreign private issuers. In addition, Mr. Yanqing Gao is regarded as an audit committee financial expert.

ITEM 16B. Code of Ethics

We have adopted a code of ethics applicable to the board of directors and all employees. Since its effective date on April 24, 2020, we have not waived compliance with or amended the code of ethics.

ITEM 16C. Principal Accountant Fees and Services

The following table sets forth the aggregate fees by categories specified below in connection with certain professional services rendered by MaloneBailey, LLP, our independent registered public accounting firm, for the periods indicated.

	2021	2020
Audit fees	\$ 595,000	\$ 480,000
Audit related fees	20,000	340,000
Tax fees	-	-
All other fees	-	-
Total	\$ 615,000	\$ 820,000

Audit Fees

Audit fees are fees billed for professional services rendered by the principal accountant for the audit of the registrant’s annual financial statements or services that are normally provided by the accountant in connection with statutory and regulatory filings or engagements for those fiscal years. It includes the audits of our consolidated financial statements and other services that generally only the independent accountant reasonably can provide, such as statutory audits.

Audit-Related Fees

Audit-related fees are fees billed for assurance and related services that are reasonably related to the performance of the audits or review of our consolidated financial statements and not reported under the previous category. These services would include, among others: comfort letters, consents and assistance with and review of documents, accounting consultations and audits in connection with acquisitions, attestation of services that are not required by statute or regulation and consultation concerning financial accounting and reporting standards.

Tax Fees

Tax fees are fees billed for professional services for tax compliance, tax advice and tax planning.

All Other Fees

All other fees represent the aggregate fees billed in each of the fiscal years listed for services rendered by the principal accountant for the audit of our annual financial statements other than services reported under "Audit Fees," "Audit-related fees," and "Tax fees."

Pre-Approval Policies and Procedures

Following the listing of our Class A ordinary shares on Nasdaq, the Audit Committee oversees the auditor selection process for new auditors and ensures key partners in the appointed firm are rotated in accordance with best practices. Also, following our Nasdaq listing, the Audit Committee is required to pre-approve the audit and non-audit fees and services performed by the Company's auditors in order to be sure that the provision of such services does not impair the audit firm's independence.

All of the audit fees, audit-related fees and tax fees described in this item 16C have been approved by the Audit Committee.

ITEM 16D. Exemptions from the listing standards for audit committees

None.

ITEM 16E. Purchases of equity securities by the issuer and affiliated purchasers.

None.

ITEM 16F. Change in registrant's certifying accountant

Not applicable.

ITEM 16G. Corporate governance

We are a "foreign private issuer" (as such term is defined in Rule 3b-4 under the Exchange Act), and our Class A ordinary shares are listed on the Nasdaq Global Select Market. Nasdaq Stock Market Rules permit a foreign private issuer like us to follow the corporate governance practices of its home country. Certain corporate governance practices in the Cayman Islands, which is our home country, may differ significantly from the Nasdaq corporate governance listing standards. For instance, we are not required to:

- have a majority of the board be independent (although all of the members of the audit committee must be independent under the Exchange Act);
- have a compensation committee or a nominations or corporate governance committee consisting entirely of independent directors;
- have an annual general meeting of shareholders each year; or
- have regularly scheduled executive sessions with only independent directors each year.

We have relied on and intend to continue to rely on some of these exemptions.

ITEM 16H. Mine safety disclosure

Not applicable.

ITEM 16I. Disclosure Regarding Foreign Jurisdictions that Prevent Inspections

Not applicable.

PART III

ITEM 17. Financial statements

We have responded to Item 18 in lieu of this item.

ITEM 18. Financial statements

Financial Statements are filed as part of this annual report, see pages F-1 to F-34 to this annual report.

ITEM 19. Exhibits

Exhibit no.	Description
1.1	Second Amended and Restated Memorandum of Association and Articles of Association of the Registrant, as currently in effect (incorporated herein by reference to Exhibit 3.1 to the Report of Foreign Private Issuer on Form 6-K, furnished with the Securities and Exchange Commission on December 22, 2021)
2.1	Registrant's Specimen Certificate for Class A Ordinary Shares (incorporated herein by reference to Exhibit 4.1 to the registration statement on Form F-1 (File No. 333-237843), as amended, initially filed with the Securities and Exchange Commission on April 24, 2020)
2.2	Form of Warrant (November 2020 Offering) (incorporated herein by reference to Exhibit 4.2 to the registration statement on Form F-1 (File No. 333-249647), as amended, initially filed with the Securities and Exchange Commission on October 23, 2020)
2.3	Form of Warrant (February 2021 Offering) (incorporated herein by reference to Exhibit 4.2 to the registration statement on Form F-1 (File No. 333-252804), as amended, initially filed with the Securities and Exchange Commission on February 5, 2021)
2.4	Form of Warrant (February 2021 Inducement) (incorporated herein by reference to Exhibit 4.2 to the registration statement on Form F-1 (File No. 333-253784), initially filed with the Securities and Exchange Commission on March 2, 2021)
2.5	Form of Warrant (April 2021 Offering) (incorporated herein by reference to Exhibit 4.2 to the registration statement on Form F-1 (File No. 333-254787), as amended, initially filed with the Securities and Exchange Commission on March 26, 2021)
2.6	Description of Securities*
4.1	Form of Indemnification Agreement between the Registrant and each of its directors and executive officers (incorporated herein by reference to Exhibit 10.1 to the registration statement on Form F-1 (File No. 333-237843), as amended, initially filed with the Securities and Exchange Commission on June 17, 2020)
4.2	Form of Employment Agreement between the Registrant and each of its executive officers (incorporated herein by reference to Exhibit 10.2 to the registration statement on Form F-1 (File No. 333-237843), as amended, initially filed with the Securities and Exchange Commission on June 17, 2020)
4.3	Form of Securities Purchase Agreement (November 2020 Offering) (incorporated herein by reference to Exhibit 10.4 to the registration statement on Form F-1 (File No. 333-249647), as amended, initially filed with the Securities and Exchange Commission on October 23, 2020)
4.4	Form of Escrow Agreement (November 2020 Offering) (incorporated herein by reference to Exhibit 10.5 to the registration statement on Form F-1 (File No. 333-249647), as amended, initially filed with the Securities and Exchange Commission on October 23, 2020)
4.5	Form of Securities Purchase Agreement (February 2021 Offering) (incorporated herein by reference to Exhibit 10.4 to the registration statement on Form F-1 (File No. 333-252804), as amended, initially filed with the Securities and Exchange Commission on February 5, 2021)
4.6	Form of Escrow Agreement (February 2021 Offering) (incorporated herein by reference to Exhibit 10.5 to the registration statement on Form F-1 (File No. 333-252804), as amended, initially filed with the Securities and Exchange Commission on February 5, 2021)
4.7	Form of Securities Purchase Agreement (April 2021 Offering) (incorporated herein by reference to Exhibit 10.4 to the registration statement on Form F-1 (File No. 333-254787), as amended, initially filed with the Securities and Exchange Commission on March 26, 2021)

4.8	<u>Form of Escrow Agreement (April 2021 Offering) (incorporated herein by reference to Exhibit 10.5 to the registration statement on Form F-1 (File No. 333-254787), as amended, initially filed with the Securities and Exchange Commission on March 26, 2021)</u>
4.9	<u>Amended and Restated 2020 Share Incentive Plan (incorporated by reference to Exhibit 4.1 to the registration statement on Form S-8 (File No. 333-257787), filed with the Securities and Exchange Commission on July 9, 2021)</u>
4.10	<u>2021 Share Incentive Plan (incorporated herein by reference to Appendix A to the Registrant's Proxy Statement, attached as Exhibit 99.1 to the Report of Foreign Private Issuer on Form 6-K, furnished with the Securities and Exchange Commission on November 15, 2021)</u>
8.1	<u>List of significant subsidiaries and consolidated affiliated entity of the Registrant*</u>
12.1	<u>Certification pursuant to section 302 of the Sarbanes-Oxley Act of 2002**</u>
13.1	<u>Certification pursuant to 18 U.S.C. section 1350, as adopted pursuant to section 906 of the Sarbanes-Oxley Act of 2002***</u>
15.1	<u>Consent of Conyers Dill and Pearman*</u>
15.2	<u>Consent of Jingtian & Gongcheng*</u>
15.3	<u>Consent of MaloneBailey, LLP, Independent Registered Public Accounting Firm**</u>
101.INS	Inline XBRL Instance Document.*
101.SCH	Inline XBRL Taxonomy Extension Schema Document.**
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase Document.**
101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase Document.**
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document.**
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase Document.**
104	Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101).**

* Previously filed.
** Filed herewith.
*** Furnished herewith.

SIGNATURES

The registrant hereby certifies that it meets all of the requirements for filing on Form 20-F and that it has duly caused and authorized the undersigned to sign this annual report on its behalf.

EBANG INTERNATIONAL HOLDINGS INC.

By: /s/ Dong Hu

Name: Dong Hu

Title: Chief Executive Officer and
Chief Financial Officer

Date: July 15, 2022

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Shareholders and Board of Directors of
Ebang International Holdings Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Ebang International Holdings Inc. and its subsidiaries (collectively, the "Company") as of December 31, 2021 and 2020, and the related consolidated statements of operations and comprehensive income (loss), changes in equity, and cash flows for each of the years in the three-year period ended December 31, 2021, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2021 and 2020, and the results of its operations and its cash flows for each of the years in the three-year period ended December 31, 2021, in conformity with accounting principles generally accepted in the United States of America.

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/ MaloneBailey, LLP

www.malonebailey.com

We have served as the Company's auditor since 2019.

Houston, Texas

April 29, 2022

EBANG INTERNATIONAL HOLDINGS INC.
CONSOLIDATED BALANCE SHEETS
(Stated in US dollars)

	<u>Notes</u>	<u>December 31, 2021</u>	<u>December 31, 2020</u>
ASSETS			
Current assets:			
Cash and cash equivalents		\$ 239,872,316	\$ 13,669,439
Restricted cash, current		171,156	406,857
Short-term investments	3	35,443,246	40,835,000
Accounts receivable, net	5	9,872,746	7,205,113
Notes receivable		-	765,967
Advances to suppliers		1,057,096	221,186
Inventories, net	6	7,137,538	3,845,091
Prepayments		283,776	522,808
Other current assets, net		4,994,271	1,128,599
Total current assets		<u>298,832,145</u>	<u>68,600,060</u>
Non-current assets:			
Property, plant and equipment, net	7	33,329,610	29,123,243
Intangible assets, net	8	22,512,208	23,077,435
Operating lease right-of-use assets	14	2,132,247	898,335
Operating lease right-of-use assets - related parties	14/18	1,136,775	17,701
Restricted cash, non-current		883,130	47,455
VAT recoverable		26,332,231	21,897,063
Other assets		705,825	538,934
Total non-current assets		<u>87,032,026</u>	<u>75,600,166</u>
Total assets		<u>\$ 385,864,171</u>	<u>\$ 144,200,226</u>
LIABILITIES AND EQUITY			
Current liabilities:			
Accounts payable		\$ 3,387,836	\$ 2,762,187
Notes payable		-	1,087,673
Accrued liabilities and other payables	9	8,962,716	21,921,614
Loan due within one year	10	-	765,967
Operating lease liabilities, current	14	851,936	659,807
Operating lease liabilities - related parties, current	14/18	595,424	17,701
Income taxes payable		13,272	556,137
Due to related party	18	-	5,652,833
Advances from customers		894,174	832,842
Total current liabilities		<u>14,705,358</u>	<u>34,256,761</u>
Non-current liabilities:			
Operating lease liabilities – related party, non-current	14/18	288,563	-
Deferred tax liabilities	11	178,582	872
Operating lease liabilities, non-current	14	1,712,303	118,827
Total non-current liabilities		<u>2,179,448</u>	<u>119,699</u>
Total liabilities		<u>16,884,806</u>	<u>34,376,460</u>
Equity:			
Class A ordinary share, HKD0.001 par value, 333,374,217 shares authorized, 139,209,554 and 89,009,554 shares issued and outstanding as of December 31, 2021 and 2020, respectively	12	17,848	11,411
Class B ordinary share, HKD0.001 par value, 46,625,783 shares authorized, issued and outstanding as of December 31, 2021 and 2020, respectively	12	5,978	5,978
Additional paid-in capital		393,717,189	138,288,921
Statutory reserves	15	11,079,649	11,049,847
Accumulated deficit		(34,180,280)	(38,581,419)
Accumulated other comprehensive loss		(6,897,005)	(7,648,332)
Total Ebang International Holdings Inc. shareholders' equity		<u>363,743,379</u>	<u>103,126,406</u>
Non-controlling interest		5,235,986	6,697,360
Total equity		<u>368,979,365</u>	<u>109,823,766</u>
Total liabilities and equity		<u>\$ 385,864,171</u>	<u>\$ 144,200,226</u>

The accompanying notes are an integral part of these consolidated financial statements

EBANG INTERNATIONAL HOLDINGS INC.
CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME (LOSS)
(Stated in US dollars)

Notes	For the year ended December 31, 2021	For the year ended December 31, 2020	For the year ended December 31, 2019
Product revenue	\$ 48,323,022	\$ 9,677,278	\$ 93,255,813
Service revenue	3,127,225	9,327,023	15,804,253
Total revenues	51,450,247	19,004,301	109,060,066
Cost of revenues	22,227,055	21,903,644	139,623,799
Gross profit (loss)	29,223,192	(2,899,343)	(30,563,733)
Operating expenses:			
Selling expenses	1,418,586	925,373	1,213,294
General and administrative expenses	25,774,237	22,822,085	18,870,794
Total operating expenses	27,192,823	23,747,458	20,084,088
Income (loss) from operations	2,030,369	(26,646,801)	(50,647,821)
Other income (expenses):			
Interest income	1,779,672	824,435	217,200
Interest expenses	(4,383)	(728,346)	(2,041,491)
Other income	133,477	81,733	84,992
Loss from investment	(3,656,520)	-	-
Exchange gain (loss)	1,780,087	(288,346)	5,693,798
Government grants	434,604	4,006,567	6,298,893
VAT refund	-	-	9,138
Other expenses	(108,328)	(108,624)	(287,530)
Total other income	358,609	3,787,419	9,975,000
Income (loss) before income taxes provision (benefit)	2,388,978	(22,859,382)	(40,672,821)
Income taxes provision (benefit)	11 (378,843)	9,251,542	400,311
Net income (loss)	2,767,821	(32,110,924)	(41,073,132)
Less: net income (loss) attributable to non-controlling interest	(1,663,120)	(1,435,504)	1,330,237
Net income (loss) attributable to Ebang International Holdings Inc.	\$ 4,430,941	\$ (30,675,420)	\$ (42,403,369)
Comprehensive income (loss)			
Net income (loss)	\$ 2,767,821	\$ (32,110,924)	\$ (41,073,132)
Other comprehensive income (loss):			
Foreign currency translation adjustment	953,073	1,960,109	(1,188,488)
Total comprehensive income (loss)	3,720,894	(30,150,815)	(42,261,620)
Less: comprehensive income (loss) attributable to non-controlling interest	(1,461,374)	(893,905)	1,330,237
Comprehensive income (loss) attributable to Ebang International Holdings Inc.	\$ 5,182,268	\$ (29,256,910)	\$ (43,591,857)
Net income (loss) per ordinary share attributable to Ebang International Holdings Inc.			
Basic	4 \$ 0.02	\$ (0.25)	\$ (0.38)
Diluted	4 \$ 0.02	\$ (0.25)	\$ (0.38)
Weighted average ordinary shares outstanding			
Basic	4 177,715,336	121,941,226	111,771,000
Diluted	4 177,865,730	121,941,226	111,771,000

The accompanying notes are an integral part of these consolidated financial statements

EBANG INTERNATIONAL HOLDINGS INC.
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY
(Stated in US dollars)

	Ordinary Shares		Class A Ordinary Shares		Class B Ordinary Shares		Additional Paid-in Capital	Statutory Reserves	Accumulated Deficit	Accumulated Other Comprehensive Loss	Non-controlling Interest	Total Equity
	Number of Shares	Amount	Number of Shares	Amount	Number of Shares	Amount						
Balance, January 1, 2019	<u>111,771,000</u>	<u>\$ 14,330</u>	<u>-</u>	<u>\$ -</u>	<u>-</u>	<u>\$ -</u>	<u>\$ 23,888,023</u>	<u>\$10,512,527</u>	<u>\$ 35,034,690</u>	<u>\$ (7,878,354)</u>	<u>\$ 6,261,028</u>	<u>\$ 67,832,244</u>
Transfer to reserve	-	-	-	-	-	-	-	537,320	(537,320)	-	-	-
Net income (loss)	-	-	-	-	-	-	-	-	(42,403,369)	-	1,330,237	(41,073,132)
Foreign currency translation adjustment	-	-	-	-	-	-	-	-	-	(1,188,488)	-	(1,188,488)
Balance, December 31, 2019	<u>111,771,000</u>	<u>\$ 14,330</u>	<u>-</u>	<u>\$ -</u>	<u>-</u>	<u>\$ -</u>	<u>\$ 23,888,023</u>	<u>\$11,049,847</u>	<u>\$ (7,905,999)</u>	<u>\$ (9,066,842)</u>	<u>\$ 7,591,265</u>	<u>\$ 25,570,624</u>
Re-designation of ordinary shares to Class A and Class B ordinary shares immediately prior to the completion of initial public offering	(111,771,000)	(14,330)	65,145,217	8,352	46,625,783	5,978	-	-	-	-	-	-
Share issuance upon initial public offering, net of issuance cost	-	-	19,264,337	2,470	-	-	91,682,290	-	-	-	-	91,684,760
Share issuance following initial public offering, net of issuance cost	-	-	4,600,000	589	-	-	22,506,246	-	-	-	-	22,506,835
Increase in capital from disposal of subsidiary	-	-	-	-	-	-	212,362	-	-	-	-	212,362
Net loss	-	-	-	-	-	-	-	-	(30,675,420)	-	(1,435,504)	(32,110,924)
Foreign currency translation adjustment	-	-	-	-	-	-	-	-	-	1,418,510	541,599	1,960,109
Balance, December 31, 2020	<u>-</u>	<u>\$ -</u>	<u>89,009,554</u>	<u>\$ 11,411</u>	<u>46,625,783</u>	<u>\$ 5,978</u>	<u>\$138,288,921</u>	<u>\$11,049,847</u>	<u>\$ (38,581,419)</u>	<u>\$ (7,648,332)</u>	<u>\$ 6,697,360</u>	<u>\$ 109,823,766</u>
Share issuance following initial public offering, net of issuance cost	-	-	36,600,000	4,693	-	-	186,772,032	-	-	-	-	186,776,725
Share issuance from exercise of warrants, net of issuance cost	-	-	13,600,000	1,744	-	-	67,949,236	-	-	-	-	67,950,980
Share-based compensation	-	-	-	-	-	-	707,000	-	-	-	-	707,000
Net income (loss)	-	-	-	-	-	-	-	-	4,430,941	-	(1,663,120)	2,767,821
Transfer to reserve	-	-	-	-	-	-	-	29,802	(29,802)	-	-	-
Foreign currency translation adjustment	-	-	-	-	-	-	-	-	-	751,327	201,746	953,073
Balance, December 31, 2021	<u>-</u>	<u>\$ -</u>	<u>139,209,554</u>	<u>\$ 17,848</u>	<u>46,625,783</u>	<u>\$ 5,978</u>	<u>\$393,717,189</u>	<u>\$11,079,649</u>	<u>\$ (34,180,280)</u>	<u>\$ (6,897,005)</u>	<u>\$ 5,235,986</u>	<u>\$368,979,365</u>

The accompanying notes are an integral part of these consolidated financial statements.

EBANG INTERNATIONAL HOLDINGS INC.
CONSOLIDATED STATEMENTS OF CASH FLOWS
(Stated in US dollars)

	For the year ended December 31, 2021	For the year ended December 31, 2020	For the year ended December 31, 2019
CASH FLOWS FROM OPERATING ACTIVITIES:			
Net income (loss)	\$ 2,767,821	\$ (32,110,924)	\$ (41,073,132)
Adjustments to reconcile net income (loss) to net cash used in operating activities:			
Depreciation and amortization expenses	6,258,055	7,152,958	8,855,750
Provision for (reversal of) credit losses	(310,012)	2,740,639	26,297
Share-based compensation	707,000	-	-
Loss (gain) on disposal of property, plant and equipment	9,243	92,172	(18,796)
Amortization of debt issuance cost	-	7,098	235,686
Inventory write-down	2,233,452	3,644,243	6,341,957
Loss (gain) on short-term investment	3,656,520	-	(1,366)
Deferred income taxes	(2,845,588)	8,627,604	(132,767)
Impairment of property, plant and equipment	3,109,922	-	-
Noncash lease expenses	1,066,838	659,082	286,774
Changes in assets and liabilities:			
Accounts receivable, net	333,888	(1,351,955)	13,251,422
Notes receivable	775,206	(724,627)	-
Inventories, net	(5,392,810)	9,725,152	49,197,114
Advances to suppliers	(818,666)	(3,601,544)	1,554,824
VAT recoverable	(3,799,426)	1,429,649	(6,118,957)
Prepayments and other current assets, net	(2,951,664)	3,287,612	(48,399)
Other assets	(51,928)	-	-
Accounts payable	559,817	(9,234,394)	(31,546,450)
Notes payable	(1,100,792)	1,028,971	(7,688,440)
Income taxes payable	13,790	(660)	(7,817,075)
Advances from customers	51,792	(204,926)	(980,958)
Accrued liabilities and other payables	(18,342,211)	(6,993,438)	2,416,318
NET CASH USED IN OPERATING ACTIVITIES	(14,069,753)	(15,827,288)	(13,260,198)
CASH FLOWS FROM INVESTING ACTIVITIES:			
Purchases of property, plant and equipment	(6,153,759)	(10,833,436)	(5,832,609)
Purchases of intangible assets	(2,365,495)	(11,927,846)	-
Proceeds from disposal of property, plant and equipment	-	362,314	25,764
Cash paid for short-term investments	(472,357,646)	(79,915,000)	(130,906)
Collections from short-term investment	474,365,880	39,080,000	128,520
Proceeds from sale of subsidiary, net of cash disposed of	-	53,435	-
NET CASH USED IN INVESTING ACTIVITIES	(6,511,020)	(63,180,533)	(5,809,231)
CASH FLOWS FROM FINANCING ACTIVITIES:			
Proceeds from short-term loans	-	765,967	7,068,283
Repayment of short-term loans	(771,629)	(4,871,795)	(14,115,485)
Repayment of long-term loan	-	-	(8,333,333)
Proceeds from related party loans	-	9,631,014	27,366,576
Repayment to related parties	(5,671,902)	(27,657,811)	(3,438,258)
Proceeds from issuance of ordinary shares	254,727,705	114,191,595	-
NET CASH PROVIDED BY FINANCING ACTIVITIES	248,284,174	92,058,970	8,547,783
EFFECT OF FOREIGN EXCHANGE ON CASH, CASH EQUIVALENTS AND RESTRICTED CASH	(900,550)	(4,705,565)	(3,181,463)
NET INCREASE (DECREASE) IN CASH, CASH EQUIVALENTS AND RESTRICTED CASH	226,802,851	8,345,584	(13,703,109)
CASH, CASH EQUIVALENTS AND RESTRICTED CASH AT BEGINNING OF YEAR	14,123,751	5,778,167	19,481,276
CASH, CASH EQUIVALENTS AND RESTRICTED CASH AT END OF YEAR	\$ 240,926,602	\$ 14,123,751	\$ 5,778,167
SUPPLEMENTAL DISCLOSURE OF CASH FLOW INFORMATION:			
Cash paid for:			
Interest	\$ 4,382	\$ 1,493,469	\$ 1,323,827
Income taxes	\$ 928	\$ 293,028	\$ 8,119,721
NON-CASH INVESTING AND FINANCING ACTIVITIES:			
Liabilities assumed in connection with purchase of property, plant and equipment	\$ 3,318,477	\$ 5,731,084	\$ 3,010,849
Liabilities assumed in connection with purchase of intangible assets	\$ 366,407	\$ 7,951,897	\$ -
Operating lease right-of-use asset obtained in exchange for operating lease liability	\$ 3,387,501	\$ 192,395	\$ 1,142,321
Transfer from other assets to property, plant and equipment	\$ -	\$ 4,454,011	\$ 1,048

Reconciliation of cash, cash equivalents and restricted cash to the consolidated balance sheets

Cash and cash equivalents	\$ 239,872,316	\$ 13,669,439	\$ 3,464,262
Restricted cash, current	171,156	406,857	2,270,588
Restricted cash, non-current	883,130	47,455	43,317
Total cash, cash equivalents and restricted cash	\$ 240,926,602	\$ 14,123,751	\$ 5,778,167

The accompanying notes are an integral part of these consolidated financial statements.

EBANG INTERNATIONAL HOLDINGS INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS
(In U.S. Dollars, unless stated otherwise)

Note 1 – Nature of business and organization

Ebang International Holdings Inc. (“Ebang International”) was incorporated on May 17, 2018, as a holding company, as an exempted company with limited liability in the Cayman Islands. Ebang International principally engages in manufacturing high-performance bitcoin mining machines and telecommunication products and conducts business through its subsidiaries in the People’s Republic of China (the “PRC”). In January 2010, Mr. Dong Hu, chairman of the board of directors and chief executive officer, founded Zhejiang Ebang Communication Technology Co., Ltd. (“Zhejiang Ebang”), which established Zhejiang Ebang Information Technology Co., Ltd. (“Ebang IT”) to conduct development and sales of communications network access devices and related equipment. In August 2015, Zhejiang Ebang was listed on the National Equities Exchange and Quotations (“NEEQ”). In August 2016, Zhejiang Ebang acquired 51.05% of the equity interest in Hangzhou Dewang Information Technology Co., Ltd. (“Hangzhou Dewang”) through capital injection in Hangzhou Dewang. In March 2018, Zhejiang Ebang was delisted from the NEEQ in preparation for the reorganizations. Ebang International underwent a series of onshore and offshore reorganizations, which were completed on May 22, 2018.

Immediately before and after the reorganization, the controlling shareholder of Zhejiang Ebang controlled Zhejiang Ebang and Ebang International; therefore, for accounting purposes, the reorganization is accounted for as a transaction of entities under common control. Accordingly, the accompanying consolidated financial statements have been prepared as if the current corporate structure had been in existence throughout the periods presented.

Ebang International and its consolidated subsidiaries are collectively referred to herein as the “Company”, “we” and “us”, unless specific reference is made to an entity.

Corporate Structure

Ebang International Holdings Inc. is a holding company incorporated in the Cayman Islands that does not have substantive operations. We conduct our businesses through our subsidiaries. As of December 31, 2021, our principal subsidiaries consist of the following entities (in chronological order based on their dates of incorporation):

- Zhejiang Ebang Communication Technology Co., Ltd., or Zhejiang Ebang, our majority-owned subsidiary and an onshore holding company established in the PRC on January 21, 2010 principally for holding our businesses in the design, manufacture and sale of telecommunications and blockchain processing equipment;
- Zhejiang Ebang Information Technology Co., Ltd., or Ebang IT, our majority-owned subsidiary and an operating entity established in the PRC on August 11, 2010 principally for the design, manufacture and sale of telecommunications and blockchain processing equipment;
- Hangzhou Dewang Information Technology Co., Ltd., or Hangzhou Dewang, our majority-owned subsidiary and an operating entity established in the PRC on December 31, 2015 principally for the design and manufacture of blockchain chips;
- Ebang Communications (HK) Technology Limited, or HK Ebang Communications (formerly known as Hong Kong Bite Co., Ltd. or HK Bite), our wholly-owned subsidiary and an operating entity established in Hong Kong on February 12, 2016 principally for the trading of blockchain chips;
- Hangzhou Ebang Jusheng Technology Co., Ltd., or Ebang Jusheng, our wholly-owned subsidiary and an operating entity established in the PRC on January 3, 2018 principally for the trading of telecommunications and blockchain processing equipment; and
- Ebonex Australia Pty Ltd, or Ebonex Australia, our wholly-owned subsidiary and an operating entity established in Australia on April 22, 2021 principally for operating the cryptocurrency exchange platform Ebonex.

The accompanying consolidated financial statements reflect the activities of Ebang International and each of the following major entities:

Name	Background	Ownership
Orient Plus International Limited (“Orient Plus”)	<ul style="list-style-type: none"> ● A British Virgin Islands (“BVI”) company ● Incorporated on June 6, 2018 ● A holding company 	100% owned by Ebang International
Ebang Communications (HK) Technology Limited (“HK Ebang Communications”), formerly known as Hong Kong Bite Co., Ltd. or HK Bite	<ul style="list-style-type: none"> ● A Hong Kong company ● Incorporated on February 12, 2016 ● A Trading company 	100% owned by Orient Plus
Power Ebang Limited (“Power Ebang”)	<ul style="list-style-type: none"> ● A British Virgin Islands company ● Incorporated on February 26, 2018 ● A holding company 	100% owned by Ebang International
HongKong Ebang Technology Co., Ltd. (“HK Ebang Technology”)	<ul style="list-style-type: none"> ● A Hong Kong company ● Incorporated on February 12, 2018 ● A holding company 	100% owned by Power Ebang
Leader Forever Holdings Limited (“Leader Forever”)	<ul style="list-style-type: none"> ● A British Virgin Islands company ● Incorporated on January 7, 2019 ● A holding company 	100% owned by Ebang International
HongKong Ebang Information Co., Ltd. (“HK Ebang Information”)	<ul style="list-style-type: none"> ● A Hong Kong company ● Incorporated on April 1, 2019 ● A Trading company 	100% owned by Leader Forever
Hangzhou Ebang Hongfa Technology Co., Ltd. (“Ebang Hongfa”)	<ul style="list-style-type: none"> ● A PRC limited liability company and deemed a wholly foreign owned enterprise (“WFOE”) ● Incorporated on February 11, 2018 ● A holding company 	100% owned by HK Ebang Technology
Hangzhou Ebang Hongling Technology Co., Ltd. (“Ebang Hongling”)	<ul style="list-style-type: none"> ● A PRC limited liability company ● Incorporated on July 3, 2019 	100% owned by Ebang Hongfa
Wuhai Ebang Information Technology Co., Ltd. (“Wuhai Ebang”)	<ul style="list-style-type: none"> ● A PRC limited liability company ● Incorporated on September 18, 2017 	100% owned by Ebang Hongling
Zhejiang Ebang Communication Technology Co., Ltd. (“Zhejiang Ebang”)	<ul style="list-style-type: none"> ● A PRC limited liability company ● Incorporated on January 21, 2010 	99.99% owned by Ebang Hongfa
Zhejiang Ebang Information Technology Co., Ltd. (“Ebang IT”)	<ul style="list-style-type: none"> ● A PRC limited liability company ● Incorporated on August 11, 2010 	100% owned by Zhejiang Ebang
Yunnan Ebang Information Technology Co., Ltd. (“Yunnan Ebang”)	<ul style="list-style-type: none"> ● A PRC limited liability company ● Incorporated on June 28, 2016 	100% owned by Zhejiang Ebang
Hangzhou Ebang Jusheng Technology Co., Ltd. (“Ebang Jusheng”)	<ul style="list-style-type: none"> ● A PRC limited liability company ● Incorporated on January 3, 2018 	100% owned by Ebang Hongfa
Hangzhou Dewang Information Technology Co., Ltd. (“Hangzhou Dewang”)	<ul style="list-style-type: none"> ● A PRC limited liability company ● Incorporated on December 31, 2015 	51.05% owned by Ebang Hongfa
Hangzhou Yibang Botong Technology Co., Ltd.	<ul style="list-style-type: none"> ● A PRC limited liability company ● Incorporated on November 30, 2021 	80% owned by Zhejiang Ebang; 20% owned by Ebang Hongfa
Ebonex International Limited	<ul style="list-style-type: none"> ● A British Virgin Islands (“BVI”) company ● Incorporated on August 18, 2020 	100% owned by Ebang International
Australia Ebon Pty Ltd	<ul style="list-style-type: none"> ● An Australia company ● Incorporated on October 13, 2020 ● A holding company 	100% owned by Ebonex International Limited
Ebon Management Australia Pty Limited	<ul style="list-style-type: none"> ● An Australia company ● Incorporated on May 18, 2021 	100% owned by Australia Ebon Pty Ltd

Note 2 – Summary of significant accounting policies

Basis of presentation

The accompanying consolidated financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America (“U.S. GAAP”) for information pursuant to the rules and regulations of the SEC.

Principles of consolidation

The consolidated financial statements include the financial statements of the Company and its subsidiaries. All significant intercompany transactions and balances have been eliminated in consolidation.

Non-controlling Interest

Non-controlling interest on the consolidated balance sheets is resulted from the consolidation of Hangzhou Dewang, a 51.05% owned subsidiary, and Shanghai Yijiixin IC Design Co., Ltd., a wholly-owned subsidiary of Hangzhou Dewang, which became effectively 51.05% owned by the Company. The portion of the income or loss applicable to the non-controlling interest in the subsidiaries are reflected in the consolidated statements of operations and comprehensive income (loss).

Use of estimates and assumptions

The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities at the balance sheet date and revenues and expenses during the reporting periods. Significant accounting estimates reflected in the Company’s consolidated financial statements including, but not limited to, estimates for inventory write-down, useful lives and impairment of long-lived assets, credit losses and income taxes including valuation allowance for deferred tax assets. Changes in facts and circumstances may result in revised estimates. Actual results could differ from those estimates, and as such, differences may be material to the consolidated financial statements.

Foreign currency translation and transaction

The accompanying consolidated financial statements are presented in the United States dollar (“\$”), which is the reporting currency of the Company. The functional currency of HK Ebang Communications, HK Ebang Information, all US and BVI entities is United State dollars, the functional currency of Ebang International, HK Ebang Technology is Hong Kong dollar (“HKD”), the functional currency of the PRC subsidiaries is Renminbi (“RMB”), the functional currency of the Australian entities is Australian dollar (“AUD”), and the functional currencies of the remaining subsidiaries are generally the local currencies used in the countries where these subsidiaries are incorporated.

Assets and liabilities denominated in currencies other than the reporting currency are translated into the reporting currency at the rates of exchange ruling at the balance sheet date. Revenues, costs and expenses are translated at the average rates for the annual period. Translation gains and losses are recognized in the consolidated statements of operations and comprehensive income (loss) as other comprehensive income (loss). Transactions in currencies other than the reporting currency are measured and recorded in the reporting currency at the exchange rate prevailing on the transaction date. The cumulative gain or loss from foreign currency transactions is reflected in the consolidated statements of operations and comprehensive income (loss) as exchange gain (loss).

Cash and cash equivalents

Cash and cash equivalents consist of cash on hand, demand deposits and time deposits placed with banks or other financial institutions and have original maturities of less than three months.

Restricted cash

Restricted cash mainly represents the bank deposit used to pledge the bank acceptance notes and bank deposit pledged in exchange for guarantee services. As of December 31, 2021 and 2020, the Company had restricted cash balance of \$1,054,286 and \$454,312, respectively.

Notes receivable and notes payable

Notes receivable, generally due within twelve months and with specific payment terms and definitive due dates, are comprised of the bank acceptance notes issued by some customers to pay certain outstanding receivable balances to the Company. Notes payable represents bank acceptance notes issued by the Company to its vendors in the normal course of business. Bank acceptance notes do not bear interest. As of December 31, 2021 and 2020, notes receivables in the amount of nil and \$765,967, respectively, were pledged to endorsing banks to issue bank acceptance notes payable.

Short-term investments

The Company's short-term investments consist of investments in marketable securities, which are accounted for under ASC 321 and reported at their readily determinable fair values as quoted by market exchanges with changes in fair value recognized in earnings.

Short-term investments also include wealth management products, consisting of products with certain financial institutions and bonds facilitated by a third-party broker, which are subject to variable rates of return or not principal-guaranteed. These investments are classified as available-for-sale debt securities and reported at fair value, with unrealized gains and losses recorded in accumulated other comprehensive loss on the consolidated balance sheets, if any. Realized gains and losses from the sale of available-for-sale debt securities are determined on an aggregate approach basis and are included in the consolidated statements of operations and comprehensive income (loss).

In addition, short-term investments are also comprised of time deposits placed with banks with original maturities of greater than three months but less than twelve months.

Current expected credit losses

The Company's financial assets, primarily accounts receivable and other receivable, are within the scope of ASC Topic 326. The Company has identified the relevant risk characteristics of its customers and the related receivables and other current assets which include type of the products and services the Company provides, nature of the customers or a combination of these characteristics. Receivables with similar risk characteristics have been grouped into pools. For each pool, the Company considers the historical credit loss experience, current economic conditions, supportable forecasts of future economic conditions, and any recoveries in assessing the lifetime expected credit losses. Other key factors that influence the expected credit loss analysis include customer demographics, payment terms offered in the normal course of business to customers, and industry-specific factors that could impact the Company's receivables. Additionally, external data and macroeconomic factors are also considered.

Inventories, net

Inventories, consisting of finished goods, work in process, and raw materials. Inventories are stated at the lower of cost and net realizable value. Cost of inventory is determined using the weighted average cost method. Adjustments are recorded to write down the cost of inventory to the estimated net realizable value due to slow-moving and obsolete inventory, which is dependent upon factors such as historical and forecasted consumer demand, and promotional environment. The Company takes ownership, risks and rewards of the products purchased.

Property, plant and equipment, net

Property, plant and equipment are stated at cost less accumulated depreciation. Depreciation is computed using the straight-line method over the estimated useful lives of the assets. The estimated useful lives are as follows:

Buildings	20 years
Computer software	10 years
Leasehold improvements	Over the shorter of the lease term or expected useful lives
Office equipment	3-5 years
Motor vehicles	5 years
Mechanical equipment	3-10 years

The cost and related accumulated depreciation of assets sold or otherwise retired are eliminated from the accounts and any gain or loss is included in the consolidated statements of operations and comprehensive income (loss). Expenditures for maintenance and repairs are charged to earnings as incurred, while additions, renewals and betterments, which are expected to extend the useful life of assets, are capitalized.

Construction in progress represents assets under construction. All direct costs relating to the construction are capitalized as construction in progress. Construction in progress is not depreciated until the asset is placed in service.

Intangible assets, net

The Company's intangible assets with definite useful lives primarily consist of software, non-patent technology, license and land use right. The Company typically amortizes its software, non-patent technology and license with definite useful lives on a straight-line basis over the shorter of the contractual terms or the estimated useful lives.

According to the law of PRC, the government owns all the land in the PRC. Companies or individuals are authorized to possess and use the land only through land use rights granted by the Chinese government for a specified period of time. The Company amortizes its land use rights using the straight-line method over the periods the rights are granted.

The estimated useful lives are as follows:

Land use right	50 years
Software	18-65 months
License	10 years
Non-patent technology	1 year

Impairment of long-lived assets

Long-lived assets, including property, plant and equipment, right-of-use assets and intangible assets with finite lives are reviewed for impairment whenever events or changes in circumstances indicate that the carrying value of an asset may not be recoverable. The Company assesses the recoverability of the assets based on the undiscounted future cash flows the assets are expected to generate and recognizes an impairment loss when estimated undiscounted future cash flows expected to result from the use of the asset plus net proceeds expected from the disposition of the asset, if any, are less than the carrying value of the asset. If an impairment is identified, the Company would reduce the carrying amount of the asset to its estimated fair value based on a discounted cash flows approach or, when available and appropriate, to comparable market values. For the years ended December 31, 2021, 2020 and 2019, impairment of long-lived assets was \$3,109,922, nil and nil, respectively.

Fair value measurement

The accounting standard regarding the fair value of financial instruments and related fair value measurements defines financial instruments and requires disclosure of the fair value of financial instruments held by the Company.

The accounting standards define fair value, establish a three-level valuation hierarchy for disclosures of fair value measurement and enhance disclosure requirements for fair value measures. The three levels are defined as follows:

- Level 1 inputs to the valuation methodology are quoted prices (unadjusted) for identical assets or liabilities in active markets.
- Level 2 inputs to the valuation methodology include quoted prices for similar assets and liabilities in active markets, and inputs that are observable for the assets or liability, either directly or indirectly, for substantially the full term of the financial instruments.
- Level 3 inputs to the valuation methodology are unobservable and significant to the fair value. Unobservable inputs reflect the reporting entity's own assumptions on what assumptions the market participants would use in pricing the asset or liability based on the best available information.

ASC 820 describes three main approaches to measuring the fair value of assets and liabilities:

(1) market approach; (2) income approach; and (3) cost approach. The market approach uses prices and other relevant information generated from market transactions involving identical or comparable assets or liabilities. The income approach uses valuation techniques to convert future amounts to a single present value amount. The measurement is based on the value indicated by current market expectations about those future amounts. The cost approach is based on the amount that would currently be required to replace an asset.

The financial asset carried at fair value on a recurring basis as of December 31, 2021 and 2020 is as follows:

	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	Total Balance
Short-term investments				
As of December 31, 2021	\$ 1,114,770	\$ 34,328,476	\$ -	\$ 35,443,246
As of December 31, 2020	\$ -	\$ 40,835,000	\$ -	\$ 40,835,000

Financial instruments included in current assets and current liabilities except for short-term investments, operating lease liability – related parties, current and due to related party are reported in the consolidated balance sheets at face value or cost, which approximate fair value because of the short period of time between the origination of such instruments and their expected realization and their current market rates of interest.

Related party transactions

Parties are considered to be related if one party has the ability, directly or indirectly, to control the other party or exercise significant influence over the other party in making financial and operational decisions. Parties are also considered to be related if they are subject to common control or common significant influence. Related parties may be individuals or corporate entities. A transaction is considered to be a related party transaction when there is a transfer of resources or obligations between related parties.

Transactions involving related parties cannot be presumed to be carried out on an arm's-length basis, as the requisite conditions of competitive, free-market dealings may not exist. Representations about transactions with related parties, if made, shall not imply that the related party transactions were consummated on terms equivalent to those that prevail in arm's-length transactions unless such representations can be substantiated. It is not, however, practical to determine the fair value of amounts due from/to related parties due to their related party nature.

Revenue recognition

The Company accounts for its revenue in accordance with ASC 606, Revenue from Contracts with Customers (“Topic 606”) for all periods presented. Consistent with the criteria of Topic 606, the Company recognizes revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration which the entity expects to receive in exchange for those goods or services to the extent the Company deems the collection of such consideration is probable. Value-added tax that the Company collects concurrent with revenue-producing activities is excluded from revenue.

Products revenue

The Company generates revenue primarily from the sale of bitcoin mining machines and related accessories directly to a customer, such as a business or individual engaged in bitcoin mining activities. The Company recognizes revenue at a point in time when the control of the products has been transferred to customers. The transfer of control is considered complete when products have been picked up by or shipped to customers. The Company’s sales arrangements for bitcoin mining machines usually require a full prepayment before the delivery of products. The advance payment is not considered a significant financing component because the period between the Company transfers a promised good to a customer and when the customer pays for that good is short. The Company started to offer credit sales to certain customers in 2018. The payment terms under credit sales generally consist of full payment of consideration within one year after the shipping date.

The Company also generates revenue from the sale of telecommunication products directly to a customer, such as a business or individual engaged in telecommunication businesses. The Company recognizes revenue at a point in time when products are delivered and customer acceptance is made. For the sales arrangements of telecommunications products, the Company generally requires payment upon issuance of invoices.

The Company elected to account for shipping and handling fees that occur after the customer has obtained control of goods, for instance, free on board shipping point arrangements, as a fulfillment cost and accrues for such costs.

Service revenue

The Company also generates revenue from management and maintenance services under separate contracts. Revenue from management and maintenance services includes service fees for the provision of mining machine hosting services to customers and the provision of maintenance services. Revenue from the maintenance service to the customer is recognized at a point in time when services are provided. Revenue from the management service to the customer is recognized as the performance obligation is satisfied over time over the service period.

Revenue disaggregation

Management has concluded that the disaggregation level is the same under both the revenue standard and the segment reporting standard. Revenue under the segment reporting standard is measured on the same basis as under the revenue standard. See Note 16 for information regarding revenue disaggregation by product lines and countries.

Contract liabilities

Contract liabilities are recorded when consideration is received from a customer prior to transferring the goods or services to the customer or other conditions under the terms of a sales contract. As of December 31, 2021 and 2020, the Company recorded contract liabilities of \$894,174 and \$832,842, respectively, which were presented as advances from customers on the accompanying consolidated balance sheets. During the years ended December 31, 2021, 2020 and 2019, the Company recognized \$126,333, \$279,423 and \$1,832,391, of contract liabilities as revenue, respectively.

Segment reporting

The Company uses the “management approach” in determining reportable operating segments. The management approach considers the internal organization and reporting used by the Company’s chief operating decision maker for making operating decisions and assessing performance as the source for determining the Company’s reportable segments. The Company’s chief operating decision maker has been identified as the chief executive officer of the Company who reviews financial information based on U.S. GAAP. The chief operating decision maker now reviews results analyzed by the marketing channel. This analysis is only presented at the revenue level with no allocation of direct or indirect costs. Consequently, the Company has determined that it has only one operating segment.

Selling and handling expenses

Selling and handling costs amounted to \$54,473, \$96,997 and \$97,719 for the years ended December 31, 2021, 2020 and 2019, respectively. Selling and handling costs are expensed as incurred and included in selling expenses.

General and administrative expenses

General and administrative expenses consist primarily of research and development expenses, salary and welfare for general and administrative personnel, rental expenses, depreciation and amortization associated with general and administrative personnel, allowance for doubtful accounts, entertainment expenses, general office expenses and professional service fees.

The Company recognizes research and development expenses when incurred. Research and development expenses amounted to \$6,557,208, \$8,459,765 and \$13,367,396 for the years ended December 31, 2021, 2020 and 2019, respectively.

Operating leases

The Company determines if an arrangement is a lease at inception. Operating leases are included in operating lease right-of-use (“ROU”) assets, operating lease liability, current, and operating lease liability, non-current in the Company’s consolidated balance sheets. ROU assets represent the Company’s right to use an underlying asset for the lease term and lease liabilities represent the Company’s obligation to make lease payments arising from the lease. Operating lease ROU assets and liabilities are recognized at the commencement date based on the present value of lease payments over the lease term. When determining the lease term, the Company includes options to extend or terminate the lease when it is reasonably certain that it will exercise that option, if any. As the Company’s leases do not provide an implicit rate, the Company used an incremental borrowing rate based on the information available at the commencement date in determining the present value of lease payments. For leases that have lease terms of 12 months or less and does not include a purchase option that is reasonably certain to exercise, the Company elected not to apply ASC 842 recognition requirements.

Government grants

Government grants represent cash subsidies received from PRC government. Cash subsidies that have no defined rules and regulations to govern the criteria necessary for companies to enjoy the benefits are recognized when received. Such subsidies are generally provided as incentives from the local government to encourage the expansion of local businesses. Total government grants received amounted to \$434,604, \$4,006,567 and \$6,298,893 for the years ended December 31, 2021, 2020 and 2019, respectively.

Value-added taxes

Revenue is recognized net of value-added taxes (“VAT”). VAT is based on gross sales price and the VAT rate applicable to the Company is 17% for the period from the beginning of 2018 till the end of April 2018, then changed to 16% from May 2018 to the end of March 2019, and changed to 13% since April 2019. Entities that are VAT general taxpayers are allowed to offset qualified input VAT paid to suppliers against their output VAT liabilities. Net VAT balance between input VAT and output VAT is recorded as VAT payable if output VAT is larger than input VAT and is recorded as VAT recoverable if input VAT is larger than output VAT. All of the VAT returns filed by the Company’s subsidiaries in China, have been and remain subject to examination by the tax authorities.

Pursuant to Caishui (2011) No. 100 issued by the State Tax Bureau of the PRC, Zhejiang Ebang and Ebang IT are qualified as enterprises selling self-developed software products and enjoying a tax refund for the excess of 3% of their actual tax burden after the VAT is levied at the 17% or 16% or 13% tax rate since January 2011. During the years ended December 31, 2021, 2020 and 2019, the total VAT refund received was nil, nil, and \$9,138 from the sales of bitcoin mining machines, respectively.

Income taxes

The Company accounts for current income taxes in accordance with the laws of the relevant tax authorities. The charge for taxation is based on the results for the fiscal year as adjusted for items, which are non-assessable or disallowed. It is calculated using tax rates that have been enacted or substantively enacted by the balance sheet date.

Deferred taxes are accounted for using the asset and liability method in respect of temporary differences arising from differences between the carrying amount of assets and liabilities in the consolidated financial statements and the corresponding tax basis used in the computation of assessable tax profit. In principle, deferred tax liabilities are recognized for all taxable temporary differences. Deferred tax assets are recognized to the extent that it is probable that taxable profit will be available against which deductible temporary differences can be utilized. Deferred tax is calculated using tax rates that are expected to apply to the period when the asset is realized or the liability is settled. Deferred tax is charged or credited in the income statement, except when it is related to items credited or charged directly to equity, in which case the deferred tax is also dealt with in equity. Deferred tax assets are reduced by a valuation allowance when, in the opinion of management, it is more likely than not that some portion or all of the deferred tax assets will not be realized. Current income taxes are provisioned in accordance with the laws of the relevant taxing authorities.

An uncertain tax position is recognized as a benefit only if it is “more likely than not” that the tax position would be sustained in a tax examination, with a tax examination being presumed to occur. The amount recognized is the largest amount of tax benefit that is greater than 50% likely of being realized on examination. For tax positions not meeting the “more likely than not” test, no tax benefit is recorded. No penalties and interest incurred related to underpayment of income tax are classified as income tax expenses in the period incurred.

Comprehensive income (loss).

Comprehensive income (loss) consists of two components, net income (loss) and other comprehensive income (loss). Other comprehensive income (loss) refers to revenues, expenses, gains and losses that under GAAP are recorded as an element of shareholders’ equity but are excluded from net income (loss). Other comprehensive income (loss) consists of a foreign currency translation adjustment resulting from the Company not using the United States dollar as its functional currency.

Earnings (loss) per share

The Company computes earnings (loss) per share (“EPS”) in accordance with ASC 260, “Earnings per Share”. ASC 260 requires companies to present basic and diluted EPS. Basic EPS is measured as net income (loss) attributable to Ebang International Holdings Inc., divided by the weighted average ordinary share outstanding for the period. Diluted EPS presents the dilutive effect on a per-share basis of the potential ordinary shares (e.g., convertible securities, options and warrants) as if they had been converted at the beginning of the periods presented, or issuance date, if later.

Statutory reserves

Pursuant to the laws applicable to the PRC, PRC entities must make appropriations from after-tax profit to the non-distributable “statutory surplus reserve fund”. Subject to certain cumulative limits, the “statutory surplus reserve fund” requires annual appropriations of 10% of after-tax profit until the aggregated appropriations reach 50% of the registered capital (as determined under accounting principles generally accepted in the PRC (“PRC GAAP”) at each year-end). For foreign-invested enterprises and joint ventures in the PRC, annual appropriations should be made to the “reserve fund”. For foreign-invested enterprises, the annual appropriation for the “reserve fund” cannot be less than 10% of after-tax profits until the aggregated appropriations reach 50% of the registered capital (as determined under PRC GAAP at each year-end). If the Company has accumulated loss from prior periods, the Company is able to use the current period net income after tax to offset the accumulated loss.

Concentration of credit risk

Financial instruments that potentially expose the Company to concentrations of credit risk consist primarily of cash and cash equivalents and accounts receivable. The Company places the cash and cash equivalents with financial institutions with high credit ratings and quality.

The Company conducts credit evaluations of customers and generally does not require collateral or other security from its customers. The Company establishes an allowance for doubtful accounts primarily based upon various factors surrounding the credit risk of specific customers and general economic conditions. Refer to the current expected credit loss policy.

Recently issued accounting pronouncements

The Company does not believe the recently issued but not yet effective accounting standards, if currently adopted, would have a material effect on the Company’s consolidated financial statements.

Note 3 – Short-term investments

Short-term investments consist of the following:

	As of December 31, 2021	As of December 31, 2020
Marketable securities	\$ 1,114,770	\$ -
Time deposits	18,000,000	-
Wealth management products	16,328,476	40,835,000
Total	<u>\$ 35,443,246</u>	<u>\$ 40,835,000</u>

During the year ended December 31, 2020, the Company purchased bonds facilitated by a third-party broker for the aggregate amount of approximately \$104 million, approximately \$63 million was redeemed during the year ended December 31, 2020 and the remaining balance was redeemed in the year ended December 31, 2021. The balance of wealth management products as of December 31, 2021 represents wealth management products with variable rates of return or non-principle-guaranteed purchased from commercial banks that can be withdrawn at any time.

For the years ended December 31, 2021, 2020 and 2019, the unrealized loss related to investments in marketable securities was \$3,890,427, nil and nil, respectively.

There was no unrealized gain or loss associated with the wealth management products as of December 31, 2021 and 2020. No impairment charges were recorded for the years ended December 31, 2021, 2020 and 2019, respectively.

Note 4 – Earnings (loss) per share

The calculation of basic earnings (loss) per share is based on the income attributable to ordinary shareholders of the Company and the weighted average number of ordinary shares in issue for the years ended December 31, 2021, 2020 and 2019.

Diluted earnings (loss) per share is computed using the weighted average number of ordinary shares and dilutive potential common shares outstanding during the respective periods. The 13,600,000 Class A ordinary shares exercisable from warrants issued pursuant to the Warrant Inducement Offering and the 7,000,000 Class A ordinary shares exercisable from warrants issued pursuant to the March 2021 Offering (as defined below) are not included in the calculation of diluted earnings (loss) per share because they are anti-dilutive for the year ended December 31, 2021. All potential ordinary shares were anti-dilutive for the years ended December 31, 2020 and 2019 as the Company had net losses in the respective year. These ordinary shares could potentially dilute basic earnings (loss) per share in the future.

The following reflects the income and share data used in the basic and diluted earnings (loss) per ordinary share computations:

	Years ended December 31,		
	2021	2020	2019
Earnings (loss) attributable to ordinary shareholders of the Company for basic earnings (loss) per share calculation	\$ 4,430,941	\$ (30,675,420)	\$ (42,403,369)
Weighted average number of ordinary shares outstanding for basic earnings (loss) per share calculation	177,715,336	121,941,226	111,771,000
Basic earnings (loss) per share	\$ 0.02	\$ (0.25)	\$ (0.38)
Earnings (loss) attributable to ordinary shareholders of the Company for diluted earnings (loss) per share calculation	\$ 4,430,941	\$ (30,675,420)	\$ (42,403,369)
Weighted average number of ordinary shares outstanding basic earnings (loss) per share calculation	177,715,336	121,941,226	111,771,000
Adjusted for:			
- incremental shares issuable related to warrants issued	150,394	-	-
Weighted average number of shares outstanding for diluted earnings (loss) per share calculation	177,865,730	121,941,226	111,771,000
Diluted earnings (loss) per share	\$ 0.02	\$ (0.25)	\$ (0.38)

Note 5 – Accounts receivable, net

Accounts receivable, net consist of the following:

	As of December 31, 2021	As of December 31, 2020
Accounts receivable	\$ 14,474,383	\$ 11,993,968
Less: Allowance for doubtful accounts	(4,601,637)	(4,788,855)
Accounts receivable, net	<u>\$ 9,872,746</u>	<u>\$ 7,205,113</u>

Movements of allowance for doubtful accounts are as follows:

	For the year ended December 31, 2021	For the year ended December 31, 2020	For the year ended December 31, 2019
Allowance for doubtful accounts, beginning balance	\$ 4,788,855	\$ 1,772,280	\$ 1,769,468
Provision for (reversal of) doubtful accounts	(310,012)	2,740,639	26,297
Effects of foreign exchange rate	122,794	275,936	(23,485)
Allowance for doubtful accounts, ending balance	<u>\$ 4,601,637</u>	<u>\$ 4,788,855</u>	<u>\$ 1,772,280</u>

Note 6 – Inventories, net

	As of December 31, 2021	As of December 31, 2020
Finished goods	\$ 11,443,135	\$ 2,230,580
Work in process	1,481,664	31,303,333
Raw materials	21,616,348	28,370,424
	34,541,147	61,904,337
Less: inventory write-down	(27,403,609)	(58,059,246)
Inventories, net	<u>\$ 7,137,538</u>	<u>\$ 3,845,091</u>

During the years ended December 31, 2021, 2020 and 2019, the Company recorded write-down for the potentially obsolete, slow-moving inventories and lower of cost or market adjustment of \$2,233,452, \$3,644,243 and \$6,341,957 in cost of revenues, respectively.

Note 7 – Property, plant and equipment, net

Property, plant and equipment, net consist of the following:

	As of December 31, 2021	As of December 31, 2020
Buildings	\$ 4,031,395	\$ 3,927,085
Mechanical equipment	19,935,874	19,562,087
Motor vehicles	454,624	348,941
Office equipment	7,369,316	6,772,941
Computer software	753,986	174,740
Leasehold improvement	1,197,048	218,004
Construction in progress	28,874,739	21,059,285
Total	62,616,982	52,063,083
Accumulated depreciation	(25,464,318)	(22,939,840)
Provision for impairment	(3,823,054)	-
Property, plant and equipment, net	<u>\$ 33,329,610</u>	<u>\$ 29,123,243</u>

Depreciation expense for the years ended December 31, 2021, 2020 and 2019 amounted to \$2,858,406, \$6,347,738 and \$7,994,727, respectively. For the year ended December 31, 2021, the Company recorded an impairment charge of \$3,109,922 against a certain building as the carrying amount of the asset was deemed not recoverable due to the asset's economic obsolescence identified during the period. No impairment was recorded for the years ended December 31, 2020 and 2019.

Note 8 – Intangible assets, net

The following table presents the Company's intangible assets as of the respective balance sheet dates:

	As of December 31, 2021	As of December 31, 2020
Land use right	\$ 3,005,644	\$ 2,927,874
Non-patent technology	482,604	470,117
Software	6,197,055	3,345,742
License	19,879,743	19,879,743
Total	<u>29,565,046</u>	<u>26,623,476</u>
Accumulated amortization	(7,052,838)	(3,546,041)
Intangible assets, net	<u>\$ 22,512,208</u>	<u>\$ 23,077,435</u>

Amortization expense for the years ended December 31, 2021, 2020 and 2019 amounted to \$3,399,649, \$805,220 and \$861,023, respectively.

Estimated future amortization expense related to intangible assets held as of December 31, 2021:

Year	
2022	\$ 3,531,230
2023	2,500,296
2024	2,140,538
2025	2,048,087
2026	2,048,087
Thereafter	10,243,970
Total	<u>\$ 22,512,208</u>

Note 9 – Accrued liabilities and other payables

The components of accrued liabilities and other payables are as follows:

	As of December 31, 2021	As of December 31, 2020
Salary payable	\$ 1,444,161	\$ 794,022
Payable to consultants	1,531,560	1,527,340
License payable	-	7,951,898
Refundable deposit to customers	1,262,817	1,230,142
Payable to property, plant and equipment suppliers	3,684,884	9,375,507
Other accrued liabilities	1,039,294	1,042,705
Total accrued liabilities and other payables	<u>\$ 8,962,716</u>	<u>\$ 21,921,614</u>

Other accrued liabilities mainly consist of insurance payables, social security payables and accrued professional service fees.

Note 10 – Loan

In 2020, the Company borrowed a loan of RMB 5,000,000 (approximately \$766,000) from the Hangzhou United Bank. The loan is not secured, bears an effective annual interest rate of 5.50% and matures in September 2021. The loan is fully repaid in the year ended December 31, 2021.

See Note 18 for related party loans.

Note 11 – Income taxes

Cayman Islands

Under the current laws of the Cayman Islands, Ebang International is not subject to tax on income or capital gain. Additionally, upon payments of dividends to the shareholders, no Cayman Islands withholding tax will be imposed.

British Virgin Islands (“BVI”)

The Company’s subsidiaries incorporated in the BVI are not subject to tax on income or capital gain. In addition, payments of dividend by these subsidiaries to their shareholders are not subject to withholding tax in the BVI.

Hong Kong

The Company’s subsidiaries incorporated in Hong Kong are subject to Hong Kong Profits Tax on the taxable income as reported in its statutory financial statements adjusted in accordance with relevant Hong Kong tax laws. The applicable tax rate is 8.25% on assessable profits arising in or derived from Hong Kong up to HKD2,000,000 and 16.5% on any part of assessable profits over HKD2,000,000.

PRC

The Company’s subsidiaries incorporated in the PRC are governed by the income tax laws of the PRC and the income tax provision in respect to operations in the PRC is calculated at the applicable tax rates on the taxable income for the periods based on existing legislation, interpretations and practices in respect thereof. Under the Enterprise Income Tax Laws of the PRC (the “EIT Laws”), domestic enterprises and Foreign Investment Enterprises (the “FIE”) are usually subject to a unified 25% enterprise income tax rate while preferential tax rates, tax holidays and even tax exemption may be granted on case-by-case basis. EIT grants preferential tax treatment to certain High and New Technology Enterprises (“HNTEs”). Under this preferential tax treatment, HNTEs are entitled to an income tax rate of 15%, subject to a requirement that they re-apply for HNTE status every three years. Zhejiang Ebang obtained the “high-tech enterprise” tax status in November 2017, which reduced its statutory income tax rate to 15% from November 2017 to November 2020. Zhejiang Ebang further re-applied and obtained the HNTE status in December 2020. Hangzhou Dewang obtained the “high-tech enterprise” tax status in November 2018, which reduced its statutory income tax rate to 15% from November 2018 to November 2021. Hangzhou Dewang further re-applied and obtained the HNTE status in December 2021. In addition, Ebang IT obtained the “high-tech enterprise” tax status in December 2021, which reduced its statutory income tax rate to 15% from December 2021 to December 2023.

The subsidiaries of the Company incorporated in other countries are subject to income tax pursuant to the rules and regulations of their respective countries of incorporation.

Reconciliation of the differences between statutory income tax rate and the effective tax rate

The reconciliation of tax computed by applying the statutory income tax rate of 25% for the years ended December 31, 2021, 2020 and 2019 applicable to the PRC operations to income tax expenses is as follows:

	For the year ended December 31, 2021	For the year ended December 31, 2020	For the year ended December 31, 2019
Statutory income tax rate	25.00%	25.00%	25.00%
Effect of expenses not deductible for tax purposes	0.40%	0.00%	(0.03)%
Effect of additional deduction of research and development expense	(35.10)%	6.70%	6.33%
Effect of income tax exemptions and reliefs	60.90%	(0.70)%	0.01%
Effect of valuation allowance on deferred income tax assets	2.20%	(67.10)%	(29.70)%
Income tax difference under different tax jurisdictions	(45.70)%	(2.20)%	-
Prior year true-ups	(23.60)%	-	-
Others	-	(2.10)%	(2.59)%
Total	(15.90)%	(40.40)%	(0.98)%

Significant components of the provision for income taxes are as follows:

	For the year ended December 31, 2021	For the year ended December 31, 2020	For the year ended December 31, 2019
Current income tax expense	\$ 2,466,745	\$ 623,938	\$ 533,078
Deferred tax expense (benefit)	(2,845,588)	8,627,604	(132,767)
Income taxes provision (benefit)	<u>\$ (378,843)</u>	<u>\$ 9,251,542</u>	<u>\$ 400,311</u>

For the purpose of presentation in the consolidated balance sheets, deferred income tax assets and liabilities have been offset. Significant components of deferred tax assets and liabilities are as follows:

	As of December 31, 2021	As of December 31, 2020
Provision for doubtful accounts	\$ 6,374,477	\$ 8,701,439
Net operating loss carryforward	19,012,186	19,478,753
Accrued expenses and others	3,899,556	3,510,029
	29,286,219	31,690,221
Less: valuation allowance	<u>(29,286,219)</u>	<u>(31,538,060)</u>
Deferred tax assets	<u>\$ -</u>	<u>\$ 152,161</u>
Intangible assets	\$ -	\$ 153,033
Property, plant and equipment	165,735	-
Bad debt allowance	12,847	-
Deferred tax liabilities	<u>\$ 178,582</u>	<u>\$ 153,033</u>
Total deferred tax liabilities	<u>\$ 178,582</u>	<u>\$ 872</u>

In assessing the realizability of deferred tax assets, management considers whether it is more likely than not that some portion or all of the deferred tax assets will not be realized. The ultimate realization of deferred tax assets is dependent upon the generation of future taxable income during the periods in which those temporary differences become deductible. Management considers the cumulative earnings and projected future taxable income in making this assessment. Recovery of substantially all of the Company's deferred tax assets is dependent upon the generation of future income, exclusive of reversing taxable temporary differences.

Uncertain tax positions

The PRC tax authorities conduct periodic and ad hoc tax filing reviews on business enterprises operating in the PRC after those enterprises complete their relevant tax filings. In general, the PRC tax authorities have up to five years to conduct examinations of the tax filings of the Company's PRC entities. Accordingly, the PRC subsidiaries' tax years of 2016 through 2020 remain open to examination by the respective tax authorities. It is therefore uncertain as to whether the PRC tax authorities may take different views about the Company's PRC entities' tax filings, which may lead to additional tax liabilities.

The Company evaluates each uncertain tax position (including the potential application of interest and penalties) based on the technical merits, and measures the unrecognized benefits associated with the tax positions. As of December 31, 2021 and 2020, the Company did not have any significant unrecognized uncertain tax positions.

Note 12 – Equity

Ordinary shares

The Company adopted a dual-class share structure. Each Class A ordinary share is entitled to one vote per share and each Class B ordinary share is entitled to twenty votes per share. Each Class B ordinary share can be converted into one Class A ordinary share at any time, while Class A ordinary shares cannot be converted into Class B ordinary shares.

The Company completed the initial public offering (“IPO”) in 2020 with new issuance of totaling 19,264,337 Class A ordinary shares at a price of \$5.23 per share. Net proceeds raised by the Company from the IPO amounted to approximately \$92 million after deducting underwriting discounts and commissions and other offering expenses. The Company received all the net proceeds on July 2, 2020.

The Company commenced an additional offering with new issuance of totaling 8,000,000 units at a price of \$5.25 per unit in November 2020 (the “November 2020 Offering”), intending to raise \$42 million funding prior to deducting underwriting discounts and commissions and other offering expenses. Each unit consists of one share of Class A ordinary shares and one warrant to purchase one-half of a Class A ordinary share. As of December 31, 2020, the Company completed the offering of 4,600,000 units in relation to the November 2020 Offering and received net proceeds of approximately \$23 million. The units issued consisting of an aggregate of 4,600,000 shares of Class A ordinary shares and 4,600,000 warrant which can be exercised for 2,300,000 shares of Class A ordinary shares. In January 2021, the Company completed the November 2020 Offering by selling another 3,400,000 units for net proceeds of approximately \$17 million. The units issued consisting of an aggregate of 3,400,000 shares of Class A ordinary shares and 3,400,000 warrant which can be exercised for 1,700,000 shares of Class A ordinary shares.

In February 2021, the Company launched another offering for an aggregate of 19,200,000 units at \$5 per unit (the “February 2021 Offering”). Each unit offered in the February 2021 Offering consist of one Class A ordinary share and one warrant to purchase one-half of one Class A ordinary share. The warrants are immediately exercisable and expire on the fifth anniversary of the original issuance date. The exercise price of each two warrant is \$5.25. The warrants may be exercised only for a whole number of shares and the Company does not issue fractional shares upon exercise of the warrants. The Company completed the February 2021 Offering by selling 19,200,000 units and received net proceeds of approximately \$90 million. The units issued consisting of an aggregate of 19,200,000 shares of Class A ordinary shares and 19,200,000 warrant which can be exercised for 9,600,000 shares of Class A ordinary shares.

The Company also entered into inducement agreements with certain investors (the “Holders”) in February 2021 to induce them to exercise the warrants issued to them in connection with the November 2020 Offering and the February 2021 Offering for all 13,600,000 Class A ordinary shares available for exercise thereunder (the “Warrant Inducement Offering”). The Holders exercised these warrants, in full, and were issued 13,600,000 Class A ordinary shares as a result of such exercises, with the Company receiving aggregate net proceeds of approximately \$68 million after deducting sales commissions payable to the warrant solicitation agents and related expenses. Additionally, as consideration for their exercise of such warrants, the Company issued to the Holders the new warrants, which are exercisable, anytime within five (5) years from the date on which they became exercisable, at an exercise price of \$11.06 per share, for an aggregate of up to the 13,600,000 Class A ordinary shares.

In March 2021, the Company launched another offering for an aggregate of 14,000,000 units at \$6.1 per unit (the “March 2021 Offering”). Each unit offered in the March 2021 Offering consist of one Class A ordinary share and one warrant to purchase one-half of one Class A ordinary share. The warrants are immediately exercisable and expire on the fifth anniversary of the original issuance date. The exercise price of each two warrant is \$6.59. The warrants may be exercised only for a whole number of shares and the Company does not issue fractional shares upon exercise of the warrants. The Company completed the March 2021 Offering by selling 14,000,000 units and received net proceeds of approximately \$80 million. The units issued consisting of an aggregate of 14,000,000 shares of Class A ordinary shares and 14,000,000 warrant which can be exercised for 7,000,000 shares of Class A ordinary shares.

Warrants

The following table sets forth the Company’s warrant activities for the years ended December 31, 2021, 2020 and 2019:

	Number of shares issuable	Weight- average exercise price
Balance at January 1, 2019	-	\$ -
Outstanding and exercisable at January 1, 2019	-	-
Balance at December 31, 2019	-	-
Outstanding and exercisable at December 31, 2019	-	-
Granted	2,300,000	5.50
Balance at December 31, 2020	2,300,000	5.50
Outstanding and exercisable at December 31, 2020	2,300,000	5.50
Granted	31,900,000	8.03
Exercised	(13,600,000)	5.32
Balance at December 31, 2021	20,600,000	9.54
Outstanding and exercisable at December 31, 2021	20,600,000	\$ 9.54

The intrinsic value of these warrants was approximately nil and \$1.3 million as of December 31, 2021 and 2020, respectively.

Note 13 – Share-based compensation

In order to attract and retain talents, the Company adopted a share incentive plan in April 2020, which was amended and restated on July 9, 2021 (the “2020 Plan”). The maximum aggregate number of shares that may be issued pursuant to all awards under the 2020 Plan shall be 10,482,827 Class A ordinary shares. The Company adopted the 2021 Share Incentive Plan, under which the maximum aggregate number of shares that may be issued pursuant to all awards shall be 10,000,000 Class A ordinary shares.

The Company granted 1,836,000 and nil restricted share awards (“RSAs”) in 2021 and 2020, respectively, under the 2020 Plan. The RSAs vest over four years with 25% vested at each anniversary. The vesting of these RSAs is further subject to performance conditions whereby a 50% or 100% of the RSAs to be vested in a given year will be forfeited based on the result of an annual performance review of the grantee in accordance with predetermined performance targets. The unvested portion of the RSAs will also be forfeited upon the termination of employment or service during the vesting period. The Company estimates the annual performance review result for each grantee and recognized the related compensation expenses. The amount of compensation expense recorded for the year ended December 31, 2021 was \$707,000. Unvested compensation expense as of December 31, 2021 was \$3,365,320.

The following table summarized the Company's RSUs activity under the 2020 Plan:

	Number of RSAs	Weighted average grant date fair value
Unvested, January 1, 2021	-	-
Granted	1,836,000	2.52
Vested	-	-
Forfeited	(220,000)	2.52
Unvested, December 31, 2021	<u>1,616,000</u>	<u>2.52</u>

Note 14 – Operating leases

The Company entered into operating lease agreements for factory buildings, office spaces and employee dormitories including lease agreements with its related party, with various initial term expiration dates through 2022 and various renewal and termination options. None of the amounts disclosed below for these leases contains variable payments, residual value guarantees or options that were recognized as part of the right-of-use assets and lease liabilities. As the Company's leases did not provide an implicit discount rate, the Company used an incremental borrowing rate based on the information available at the commencement date in determining the present value of lease payments.

As of December 31, 2021 and 2020, the Company recognized operating lease liabilities, including current and noncurrent, in the amount of \$3,448,226 and \$796,335, respectively, and the corresponding operating lease right-of-use assets of \$3,269,022 and \$916,036, respectively.

Also see Note 18 for related party operating lease commitments.

The following components of lease cost are included in the Company's consolidated statements of operations and comprehensive income (loss):

	For the year ended December 31, 2021	For the year ended December 31, 2020	For the year ended December 31, 2019
Operating lease cost	\$ 1,177,689	\$ 704,264	\$ 662,505
Short-term lease cost	117,118	29,007	116,728
Total lease cost	<u>\$ 1,294,807</u>	<u>\$ 733,271</u>	<u>\$ 779,233</u>

Supplemental cash flow information related to operating leases was as follows:

	For the year ended December 31, 2021	For the year ended December 31, 2020	For the year ended December 31, 2019
Cash paid for amounts included in the measurement of lease liabilities			
Operating cash flows for operating leases	\$ 1,414,151	\$ 690,626	\$ 854,431
Supplemental lease cash flow disclosure			
Operating lease right-of-use assets obtained in exchange for operating lease liabilities	\$ 3,387,501	\$ 192,395	\$ 1,142,321

Supplemental balance sheet information related to operating leases was as follows:

	As of December 31, 2021	As of December 31, 2020
Operating lease right-of-use assets	\$ 2,132,247	\$ 898,335
Operating lease right-of-use assets – related parties	1,136,775	17,701
Total operating lease right-of-use assets	\$ 3,269,022	\$ 916,036
Operating lease liabilities, current	\$ 851,936	\$ 659,807
Operating lease liabilities – related parties, current	595,424	17,701
Operating lease liabilities, non-current	1,712,303	118,827
Operating lease liabilities – related party, non-current	288,563	-
Total operating lease liabilities	\$ 3,448,226	\$ 796,335
Weighted average remaining lease term of operating leases	3.09 Years	1.51 Years
Weighted average discount rate of operating leases	6.5250%	6.5250%

The Company's maturity analysis of operating lease liabilities as of December 31, 2021 is as follows:

	Operating Leases
2022	\$ 1,597,865
2023	1,038,070
2024	635,801
2025	490,136
2026	-
Thereafter	-
Total lease payment	3,761,872
Less: imputed interest	(313,646)
Present value of operating lease liabilities	3,448,226
Less: current obligation	(1,447,360)
Long-term obligation at December 31, 2021	\$ 2,000,866

Note 15 – Statutory reserves and restricted net assets

As a result of the PRC laws and regulations and the requirement that distributions by PRC entities can only be paid out of distributable profits computed in accordance with PRC GAAP, the PRC entities are restricted from transferring a portion of their net assets to the Company. Amounts restricted include paid-in capital, additional paid-in capital, and the statutory reserves of the Company's PRC subsidiaries.

	<u>As of December 31, 2021</u>	<u>As of December 31, 2020</u>
PRC entities		
Additional paid-in capital	\$ 23,919,850	\$ 23,919,850
Statutory reserves	11,079,649	11,049,847
Total restricted net assets	<u>\$ 34,999,499</u>	<u>\$ 34,969,697</u>

As of December 31, 2021 and 2020, total restricted net assets were \$34,999,499 and \$34,969,697, respectively.

Note 16 – Segment and revenue analysis

The Company operates in a single operating segment that includes the selling of bitcoin mining machines and related accessories, telecommunication products and providing management and maintenance services.

The following table summarizes the revenue generated from different revenue streams:

	<u>For the year ended December 31, 2021</u>	<u>For the year ended December 31, 2020</u>	<u>For the year ended December 31, 2019</u>
Revenue			
Product sale - Bitcoin mining machines and related accessories	\$ 39,756,156	\$ 7,951,296	\$ 89,919,400
Product sale - Telecommunication	8,566,866	1,725,982	3,336,413
Service - Management and maintenance	3,127,225	9,327,023	15,804,253
	<u>\$ 51,450,247</u>	<u>\$ 19,004,301</u>	<u>\$ 109,060,066</u>

The following table summarizes the revenues generated from different geographic region:

Geographic region	For the year ended December 31, 2021	For the year ended December 31, 2020	For the year ended December 31, 2019
Revenue			
Mainland China	\$ 51,432,545	\$ 18,962,130	\$ 95,373,150
United States of America	-	9,338	1,407,546
Hong Kong	-	-	1,673,300
Other foreign countries	17,702	32,833	10,606,070
	<u>\$ 51,450,247</u>	<u>\$ 19,004,301</u>	<u>\$ 109,060,066</u>

As most of the Company's long-lived assets are located in the PRC, no geographic information on the long-lived assets is presented.

Note 17 – Credit risk and major customers

Accounts receivable concentration of credit risk is as below:

	As of December 31, 2021	As of December 31, 2020
Customer A	*%	19%
Customer B	13%	*%
Customer C	13%	*%
Customer D	11%	10%
Customer E	*%	24%

Supplier concentration of credit risk is as below:

	For the year ended December 31, 2021	For the year ended December 31, 2020	For the year ended December 31, 2019
Supplier N	22%	*%	*%
Supplier O	13%	*%	*%
Supplier P	*%	28%	*%
Supplier Q	*%	44%	18%
Supplier R	*%	*%	45%

Revenue concentration of credit risk is as below:

	For the year ended December 31, 2021	For the year ended December 31, 2020	For the year ended December 31, 2019
Customer F	11%	*%	*%
Customer G	*%	*%	16%
Customer H	32%	*%	*%
Customer D	*%	20%	*%
Customer J	*%	18%	*%
Customer E	*%	12%	*%
Customer K	*%	10%	*%
Customer L	*%	10%	*%
Customer M	*%	10%	*%

* Less than 10%

Note 18 – Related party transactions

a) Related parties

Name of related parties	Relationship with the Company
Dong Hu	Chief executive officer (CEO) of the Company
Hong Kong Dewang Limited	Wholly owned by Zhengqian Jiang, father-in-law of Dong Hu
Zhejiang Wansi Computer Manufacturing Company Limited	68% owned by Aiqun Jiang, spouse of Dong Hu
Hangzhou Yibang Zhiyang Technology Co., Ltd.	Controlled by Dong Hu
Top Max Limited	Controlled by Dong Hu
Shubo Qian	Brother-in-law of Dong Hu
Jun Hu	Sister of Dong Hu
Hangzhou Yiquansheng Communication Technology Co., Ltd.	Controlled by Dong Hu

b) Long-term loans from related party

During the year ended December 31, 2020, the Company obtained loans in the amount of \$6,481,700 from Hong Kong Dewang Limited with interest rate of 4.7500% per annum. As of December 31, 2020, the Company has fully repaid the loan related to Hong Kong Dewang Limited. The interest associated with this loan for the amount of approximately \$678,000, was included in the consolidated statement of operations and comprehensive income (loss).

During the year ended December 31, 2019, the Company obtained loans in the amount of \$17,632,000 from Hong Kong Dewang Limited with interest rate of 4.7500% per annum. The maturity dates of the loans existing as of December 31, 2019 ranged from June 5, 2022 to September 30, 2022. The principal and interests shall be repaid in full on the maturity date.

c) Operating leases with related parties:

The Company leases office space from Zhejiang Wansi Computer Manufacturing Company Limited under non-cancellable operating lease agreements with lease terms ranging from two to three years. Lease expense from related party for the years ended December 31, 2021, 2020 and 2019 amounted to \$31,647, \$29,582 and \$29,545, respectively.

The Company leases office space from Hangzhou Yiquansheng Communication Technology Co., Ltd. under non-cancellable operating lease agreements with lease terms of 31 months. Lease expense from related party for the years ended December 31, 2021, 2020 and 2019 amounted to \$378,652, nil and nil, respectively.

d) Due to related party

The balance of due to related party represents advances the Company obtained from a related party. The balances owed to the related party are unsecured, non-interest bearing and payable on demand. As of December 31, 2021 and 2020, due to related party consisted of the followings:

	As of December 31, 2021	As of December 31, 2020
Zhejiang Wansi Computer Manufacturing Company Limited	\$ -	\$ 5,652,833

For the year ended December 31, 2020, the Company borrowed approximately \$1.8 million from and repaid approximately \$2.8 million to Zhejiang Wansi Computer Manufacturing Company Limited, respectively. As of December 31, 2021, the borrowings have been fully repaid by the Company.

e) Interest free loans from related parties

During the year ended December 31, 2020, the Company borrowed \$749,949 from Dong Hu and fully repaid the loan in the same period. The loan is unsecured, non-interest bearing and payable on demand.

During the year ended December 31, 2019, the Company borrowed \$1,050,000 from Shubo Qian, a related party and fully repaid the loan in the same period. The loan is unsecured, non-interest bearing and payable on demand.

During the year ended December 31, 2019, the Company borrowed RMB14,500,000 (approximately \$2,081,000) from Jun Hu, a related party and fully repaid the loan in the same period. The loan is unsecured, non-interest bearing and payable on demand.

f) Disposal of a subsidiary to a related party

In December 2020, the Company disposed Hangzhou Yiquansheng to an affiliate controlled by Mr. Dong Hu, CEO of the Company, for RMB500,000. The gain on disposal of Hangzhou Yiquansheng is accounted for as a capital contribution from Dong Hu, CEO as a result of this transaction between entities under common control of Dong Hu. The disposal of Hangzhou Yiquansheng does not constitute a strategic shift of the Company's operation.

During the year ended December 31, 2020, Hangzhou Yiquansheng borrowed approximately \$562,000 from the affiliate controlled by Mr. Dong Hu. The liability was extinguished in connection with the disposal of Hangzhou Yiquansheng, related gain on extinguishment is included in the gain on disposal, accounted for as a capital contribution.

Note 19 – Contingencies

On July 16, 2018, Wangjing Technology (Suzhou) Co., Ltd. ("Wangjing Technology") filed a copyright infringement dispute against Zhejiang Ebang and three other defendants. On January 1, 2016, due to production and operation needs, Zhejiang Ebang entrusted the fourth defendant Suzhou Qiao Network Technology Co., Ltd. ("Suzhou Qiao") to carry out technical development (involving products: embedded software for gateway). In the process of technical cooperation, the software developed by the fourth defendant Suzhou Qiao was charged for copyright infringement and Zhejiang Ebang is thereby involved in the case. The plaintiff, Wangjing Technology sued the defendants in this case to jointly compensate the plaintiff for the economic losses and reasonable rights maintenance costs totaling RMB3 million (approximately \$431,000). On August 6, 2020, Zhejiang Ebang received the judgment of the first trial of the case, and the judgment was as follows: 1) Zhejiang Ebang and Suzhou Qiao should immediately cease the infringement of the plaintiff's software copyright. 2) Zhejiang Ebang and Suzhou Qiao should jointly compensate the plaintiff by RMB0.5 million (approximately \$71,000). 3) Zhejiang Ebang should publish notices on its official website regarding the copyright infringement involved in the case for no less than 15 consecutive days. 4) The Court rejected the plaintiff's other claims. Zhejiang Ebang has filed an appeal and the judgment of the first trial has not yet become effective due to the appeal. On January 27, 2021, the appeal has been held online for trial investigation. The result of this appeal is still pending. At current stage, the management of the Company, together with the trial counsel of this case, believe it is probable that the appeal might not be successful, and in turn, the Company might become liable for up to RMB0.5 million compensation pursuant to the judgment from the first trial. The Company has recorded an expense of RMB0.5 million related to this matter for the year ended December 31, 2021.

In April 2021, Chongqing Duomeiduo Culture Media Co., Ltd. (“DMD”) filed a civil action in the Beijing Chaoyang District People’ Court against the Company for sales contract disputes, claiming the Company and Borui Shikong Culture Communication Co., Ltd. to return the payment made for the contract in dispute, totaling RMB2 million and 30 bitcoins. On December 16, 2021, the case was transferred to Beijing Dongcheng District People’s Court for trial. The date of the trial is not determined. At current stage, the management of the Company, together with the trial counsel of this case, believe the possibility of an unfavorable outcome is reasonably possible. However, the amount liable by the Company in the event of an unfavorable outcome, cannot be reasonably estimated.

From time to time, the Company is subject to legal proceedings and claims in the ordinary course of business. The Company records a liability when it is both probable that a liability will be incurred and the amount of the loss can be reasonably estimated. The Company reviews the need for any such liability on a regular basis.

Litigation settlement

In November 2019, the Company brought a claim against one of the Company’s customers and the ultimate beneficial owner of the mining machines (collectively, the “defendants”) in connection with a sale of 80,000 mining machines for an amount of RMB403 million (approximately \$58 million) pursuant to a sales contract and a supplementary contract, alleging that the defendants only paid RMB13 million (approximately \$2 million) of the total balance and seeking full payment of the outstanding RMB282 million (approximately \$40 million) balance plus interest and hold both defendants jointly and severally liable. In August 2021, an agreement was reached between the Company and defendants following a mediation by the court, pursuant to which the defendants agree to pay a total of RMB272 million to the Company. When the sales contract was entered into in 2018, no associated revenue was recognized as the Company concluded the collection of the consideration was not probable. The Company has received RMB106 million (approximately \$16 million) from the settlement during the year ended December 31, 2021 and such receipt was recorded as revenue in the consolidated statements of operations and comprehensive income (loss) because the contract has been terminated which leaves the Company no remaining obligations to transfer products and the receipt of consideration is nonrefundable.

Note 20 – Subsequent events

In January 2022, the Company granted an aggregate of 1,541,000 RSAs to certain employees. These RSAs are vested immediately.

In March 2022, the Company, through its subsidiary Australia Ebon Pty Ltd, acquired Compass Global Holdings Pty Ltd for a consideration of AUD 8.0 million. The acquired entity holds the Australian Financial Services License (the “License”) issued by the Australian Securities & Investments Commission (“ASIC”), which allows the Company to conduct financial services business in Australia.

In March and April 2022, the Company granted an aggregate of 3,025,000 and 504,000 RSAs, respectively, to certain employees. The RSAs vest over four years with 25% vested at each anniversary and the vesting of these RSAs is further subject to performance conditions whereby a portion of the RSUs to be vested in a given year will be forfeited based on the result of an annual performance review of the grantee in accordance with predetermined performance targets. The unvested portion of the RSAs will also be forfeited upon the termination of employment or service during the vesting period.

Note 21 – Condensed financial information of the parent company

The Company performed a test on the restricted net assets of consolidated subsidiaries in accordance with Securities and Exchange Commission Regulation S-X Rule 5-04 and concluded that it was applicable for the Company to disclose the financial statements for the parent company.

The following condensed financial statements of the Parent Company have been prepared using the same accounting policies as set out in the Company’s consolidated financial statements except that the Parent Company used the equity method to account for its investment in its subsidiaries. The Parent Company and its subsidiaries were included in the consolidated financial statements whereby the inter-company balances and transactions were eliminated upon consolidation. The Parent Company’s share of loss from its subsidiaries is reported as “share of loss from subsidiaries” in the condensed financial statements.

The Parent Company is a Cayman Islands company and, therefore, is not subjected to income taxes for all years presented. The footnote disclosures contain supplemental information relating to the operations of the Company and, as such, these statements should be read in conjunction with the notes to the consolidated financial statements of the Company. Certain information and footnote disclosures normally included in financial statements prepared in accordance with US GAAP have been condensed or omitted.

The subsidiaries did not pay any dividend to the Company for the years presents. As of December 31, 2021 and 2020, there were no material commitments or contingencies, significant provisions for long-term obligations or guarantees of the Company, except for those which have been separately disclosed in the consolidated financial statements, if any.

(a) Condensed balance sheets

	December 31, 2021	December 31, 2020
Assets		
Current assets:		
Cash and cash equivalents	\$ 81,576,897	\$ 8,318,219
Short-term investments	15,000,000	40,835,000
Other current assets, net	658,045	868,949
Due from subsidiaries	242,014,968	46,448,162
Total current assets	<u>339,249,910</u>	<u>96,470,330</u>
Non-current assets:		
Intangible assets, net	17,726,105	19,714,079
Investment in subsidiaries	6,820,967	(5,030,523)
Total non-current assets	<u>24,547,072</u>	<u>14,683,556</u>
Total assets	<u>\$ 363,796,982</u>	<u>\$ 111,153,886</u>
Liabilities and Shareholders' Equity		
Current liabilities:		
Accrued liabilities and other payables	\$ 53,603	\$ 8,027,480
Total current liabilities	<u>53,603</u>	<u>8,027,480</u>
Total liabilities	<u>53,603</u>	<u>8,027,480</u>
Shareholders' equity:		
Class A ordinary share, HKD0.001 par value, 333,374,217 shares authorized, 139,209,554 and 89,009,554 shares issued and outstanding as of December 31, 2021 and 2020, respectively	17,848	11,411
Class B ordinary share, HKD0.001 par value, 46,625,783 shares authorized, issued and outstanding as of December 31, 2021 and 2020, respectively	5,978	5,978
Additional paid-in capital	393,717,189	138,288,921
Accumulated deficit	(23,100,631)	(27,531,572)
Accumulated other comprehensive loss	(6,897,005)	(7,648,332)
Total shareholders' equity	<u>363,743,379</u>	<u>103,126,406</u>
Total liabilities and shareholders' equity	<u>\$ 363,796,982</u>	<u>\$ 111,153,886</u>

(b) Condensed statements of operations and comprehensive income (loss)

	For the year ended December 31, 2021	For the year ended December 31, 2020	For the year ended December 31, 2019
Operating expenses:			
General and administrative expenses	\$ 6,233,339	\$ 6,401,580	\$ 385,865
Total operating expenses	<u>6,233,339</u>	<u>6,401,580</u>	<u>385,865</u>
Loss from operations	<u>(6,233,339)</u>	<u>(6,401,580)</u>	<u>(385,865)</u>
Interest income	541,598	798,328	4
Other expenses	(8,505)	(4,162)	(1,390)
Exchange gain	1,478,258	340,643	529
Other income	18,114	-	-
Share of income (loss) from subsidiaries	<u>8,634,815</u>	<u>(25,408,649)</u>	<u>(42,016,647)</u>
Net income (loss)	<u>\$ 4,430,941</u>	<u>\$ (30,675,420)</u>	<u>\$ (42,403,369)</u>
Comprehensive income (loss)			
Net income (loss)	\$ 4,430,941	\$ (30,675,420)	\$ (42,403,369)
Other comprehensive income (loss):			
Foreign currency translation adjustment	751,327	1,418,510	(1,188,488)
Comprehensive income (loss)	<u>\$ 5,182,268</u>	<u>\$ (29,256,910)</u>	<u>\$ (43,591,857)</u>

(c) Condensed statements of cash flows

	For the year ended December 31, 2021	For the year ended December 31, 2020	For the year ended December 31, 2019
Cash Flows from Operating Activities:			
Net income (loss)	\$ 4,430,941	\$ (30,675,420)	\$ (42,403,369)
Adjustments to reconcile net income (loss) to net cash used in operating activities:			
Share of (income) loss from subsidiaries	(8,634,815)	25,408,649	42,016,647
Amortization expense	1,987,974	165,664	-
Share-based compensation	707,000	-	-
Changes in assets and liabilities:			
Due from subsidiaries	(195,566,806)	(46,448,162)	193,591
Other current assets, net	210,904	(868,949)	-
Accrued liabilities and other payables	(7,973,877)	75,583	-
Due to subsidiaries	-	(64,871)	64,871
Net Cash Used in Operating Activities	<u>(204,838,679)</u>	<u>(52,407,506)</u>	<u>(128,260)</u>
Cash Flows from Investing Activities			
Cash paid for short-term investments	-	(79,915,000)	-
Collections from short-term investments	25,835,000	39,080,000	-
Purchases of intangible assets	-	(11,927,846)	-
Net Cash Provided by (Used in) Investing Activities	<u>25,835,000</u>	<u>(52,762,846)</u>	<u>-</u>
Cash Flows from Financing Activities			
Sale of subsidiary	-	76,566	-
Proceeds from issuances of ordinary shares	254,727,705	114,191,595	-
Net Cash Provided by Financing Activities	<u>254,727,705</u>	<u>114,268,161</u>	<u>-</u>
Effect of Foreign Exchange on Cash and Cash Equivalents	<u>(2,465,348)</u>	<u>(801,360)</u>	<u>-</u>
Net Increase (Decrease) in Cash and Cash Equivalents	<u>73,258,678</u>	<u>8,296,449</u>	<u>(128,260)</u>
Cash and Cash Equivalents at Beginning of Year	<u>8,318,219</u>	<u>21,770</u>	<u>150,030</u>
Cash and Cash Equivalents at End of Year	<u>\$ 81,576,897</u>	<u>\$ 8,318,219</u>	<u>\$ 21,770</u>

Certification by the Principal Executive Officer and Principal Financial Officer
Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002

I, Dong Hu, certify that:

1. I have reviewed this Amendment No. 1 to annual report on Form 20-F of Ebang International 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 company as of, and for, the periods presented in this report;
4. The company'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 Rule 13a-15(f) and 15d-15(f)) for the company 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 company, 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 company'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 company's internal control over financial reporting that occurred during the period covered by the annual report that has materially affected, or is reasonably likely to materially affect, the company's internal control over financial reporting; and
5. The company's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the company's auditors and the audit committee of the company's board of directors (or persons performing the equivalent functions):
 - (a) 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 company's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the company's internal control over financial reporting.

July 15, 2022

By: /s/ Dong Hu

Name: Dong Hu

Title: Chief Executive Officer and Chief Financial Officer
(Principal Executive Officer and Principal Financial Officer)

Certification by the Principal Executive Officer and Principal Financial Officer
Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

In connection with the Amendment No.1 to the Annual Report of Ebang International Holdings Inc. (the “Company”) on Form 20-F for the year ended December 31, 2021 as filed with the Securities and Exchange Commission on the date hereof (the “Report”), I, Dong Hu, Chief Executive Officer and Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that to my knowledge:

- (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 results of operations of the Company.

July 15, 2022

By: /s/ Dong Hu
Name: Dong Hu
Title: Chief Executive Officer and Chief Financial Officer
(Principal Executive Officer and Principal Financial Officer)

**CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

We consent to the incorporation by reference in the Registration Statement of Ebang International Holdings Inc. on Form S-8 (File No. 333-257787) of our report dated April 29, 2022 with respect to the audited consolidated financial statements, which appears in this Amendment No.1 to Form 20-F.

/s/ *MaloneBailey, LLP*
www.malonebailey.com
Houston, Texas
July 15, 2022

10370 Richmond Avenue, Suite 600, Houston, Texas 77042 713.343.4286

Zhongzhou Holdings Financial Center (Tower B) #2205 No. 88, Haide Yi Road, Nanshan District, Shenzhen 518054, P.R. China 86.755.86278659

Room 707, 7th Floor, SK Tower, No.6A Jianguomenwai Avenue, Chaoyang District, Beijing 100022, P.R. China 86.010.85563995

www.malonebailey.com

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