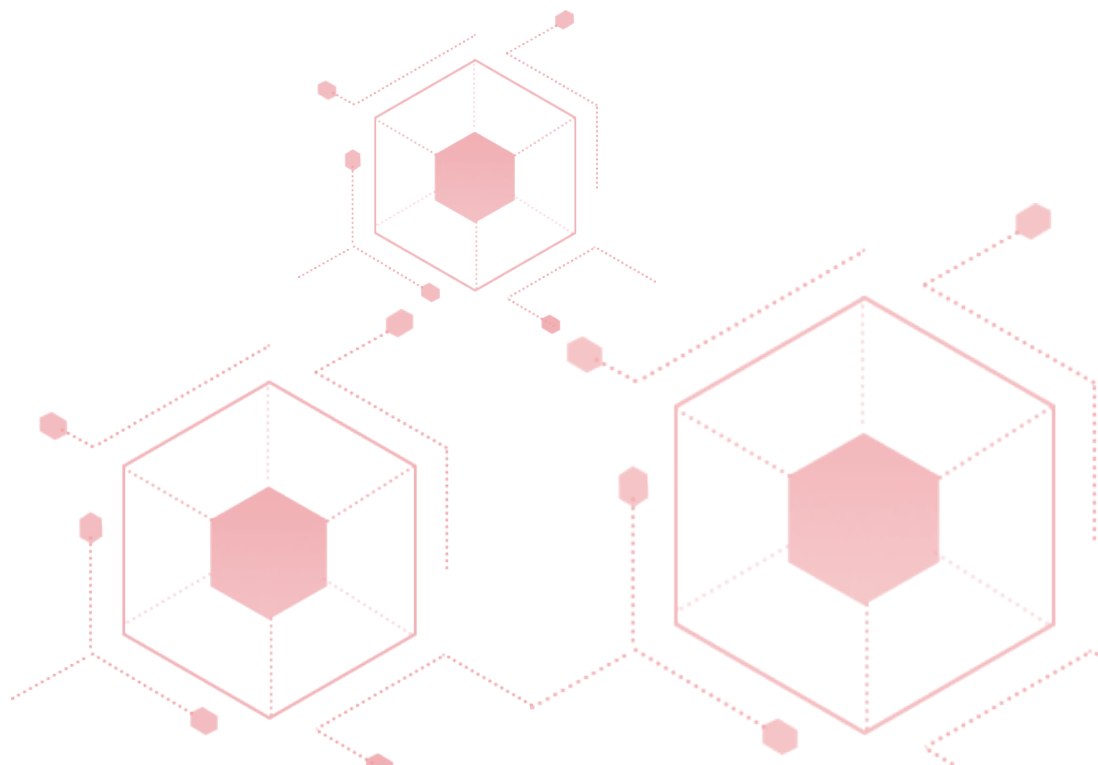


# BLOCKEX

Take you into a new era of big data and wealth



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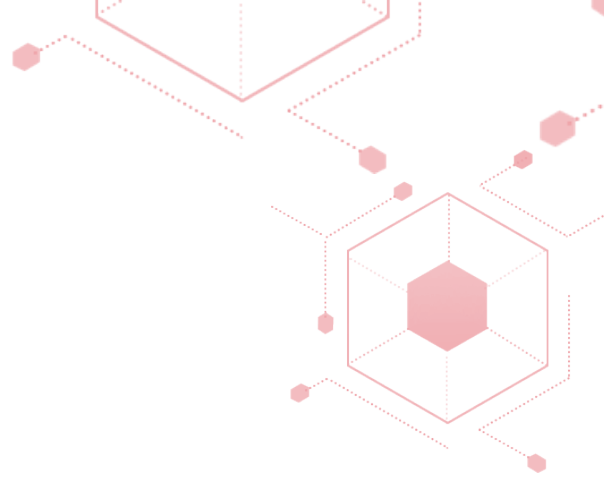
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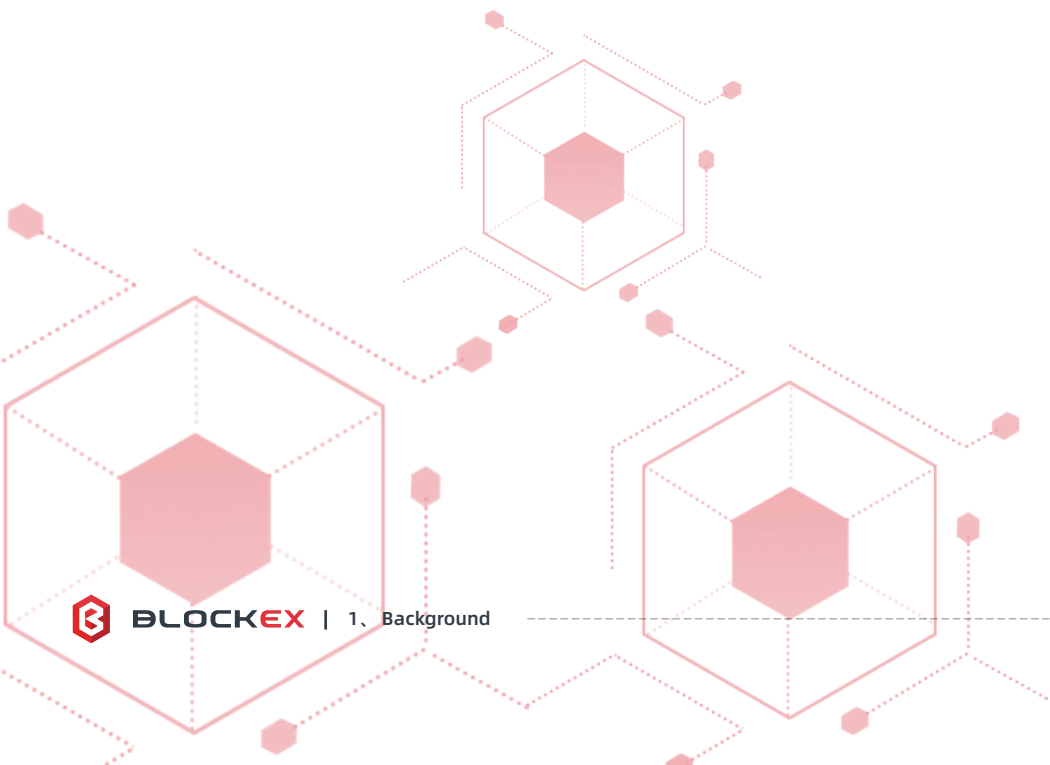
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01

# Background



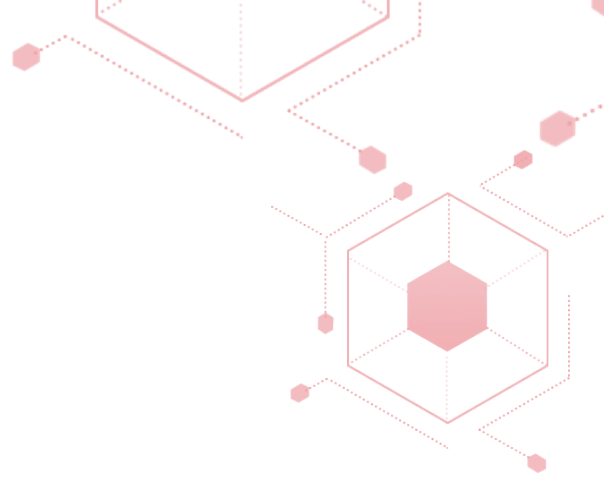
# 01 Background

In 2020, the virus of covid-19 is rampant all over the world, the international regional conflict is aggravating, and the contradiction of the long-term accumulation of the global financial system and policy system based on legal currency breaks out. In this context, how to break the barriers of the international financial market, stop the occurrence of the current economic crisis, let the investors' assets rise steadily, and let the legal currency no longer depreciate?

Open source ecosystem, decentralized file sharing and public cryptocurrency, the success of these technologies makes people begin to understand that the decentralized internet protocol can be used to completely improve the social and economic infrastructure. We have witnessed the birth of professional blockchain applications, such as bitcoin (cryptocurrency), as well as the popularity of smart contract platform, For example, Ethereum, in addition to numerous other distributed applications for EVM (Ethereum virtual machine).

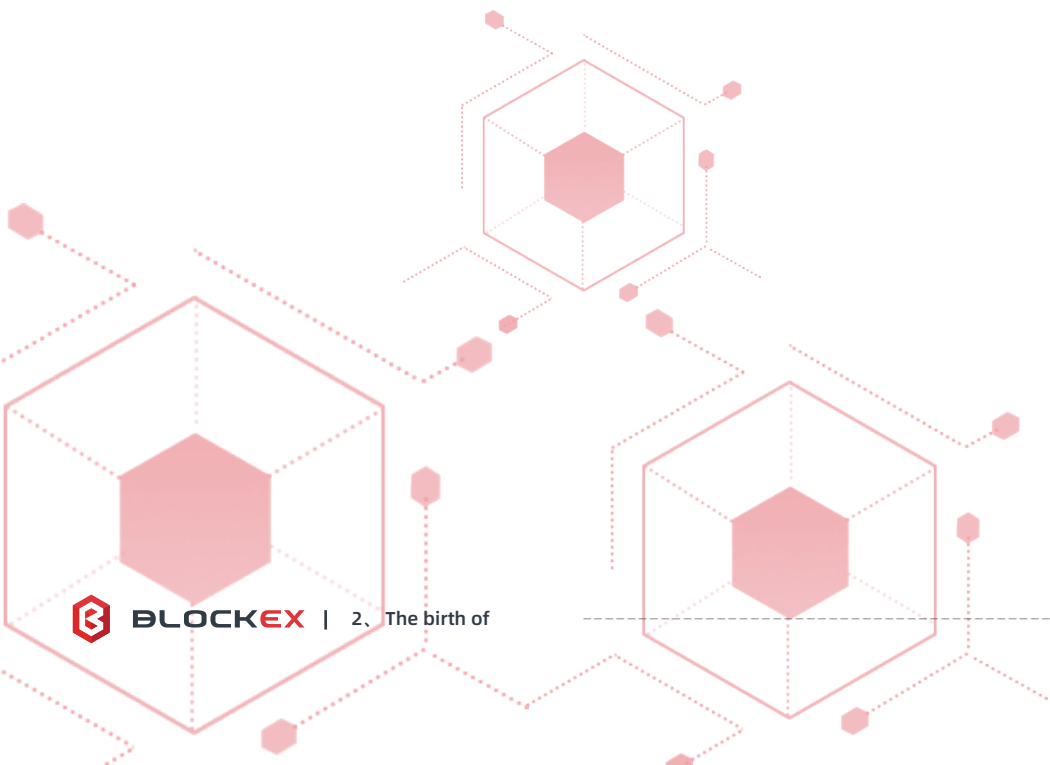
However, so far, these blockchains have exposed various defects, including low efficiency of total energy, poor or limited functions, and lack of mature management mechanism. In order to expand the throughput of bitcoin transactions, many platforms have developed such complex playing methods, but these complex playing methods are limited because they are separated from the basic core of people-oriented. If there is one The mode can easily acquire digital assets in simple play, so it will definitely become a trend in the era of blockchain. Blockex can help expand the transaction volume of digital assets by making some transactions completely recorded outside the account book, using a new mode. This method is very suitable for the privacy protection payment track, and can also meet the broader expansion needs. The great of decentralization It is to be able to compete with the dominant power of the universe, so that civilization and thought can develop forever.





02

# The birth of Blockex




## 02 The birth of Blockex

### 2.1. The origin of blockex

In 1964, Paul Baran of RAND Corporation published a paper on distributed communications networks containing the concept of global networks with distributed social behaviors. In 1969, the U.S. military in ARPA, Under the agreement made by the research program of the U.S. Department of defense, it is first used for military connection, and then four major computers of the University of California, Los Angeles, Stanford University, UCSB (California Undergraduate) and Utah undergraduate are connected. This agreement is implemented by BBN and Ma of Cambridge University, It began to be online in December 1969. The era of Internet began.

The Internet has greatly improved the speed of modern information exchange, and promoted the efficiency of economic development. With the further improvement of mobile terminal, 5G and other infrastructure, its advantage of skipping information intermediary will be given a deeper play in financial and other industries. The new generation of Internet based financial technology represented by payment, artificial intelligence, blockchain, cloud computing and big data is in the near future Starting in, the digital economy is profoundly changing the way of production and life of human beings, and has become a new driving force for the growth of real economy.

The explosive development of blockchain technology has given developers a lot of inspiration. Is there a mode that can make supply and demand continue to increase, and the problem of inflation or currency shortage can be improved? The Federal Communications Commission (FCC) of the United States established the block encryption foundation, invested a lot of money to study



this topic, and released blockex block in 2020. Blockex from a new perspective Starting from, based on the distributed characteristics of blockchain, cryptography and other technical means and token design, it provides a new blockchain solution for the development of big data economy, breaks through the existing technical bottleneck, reshapes the perfect economic model, and is about to push the decentralization concept of Nakamoto to a higher dimension!

## 2.2. Blockex's mission

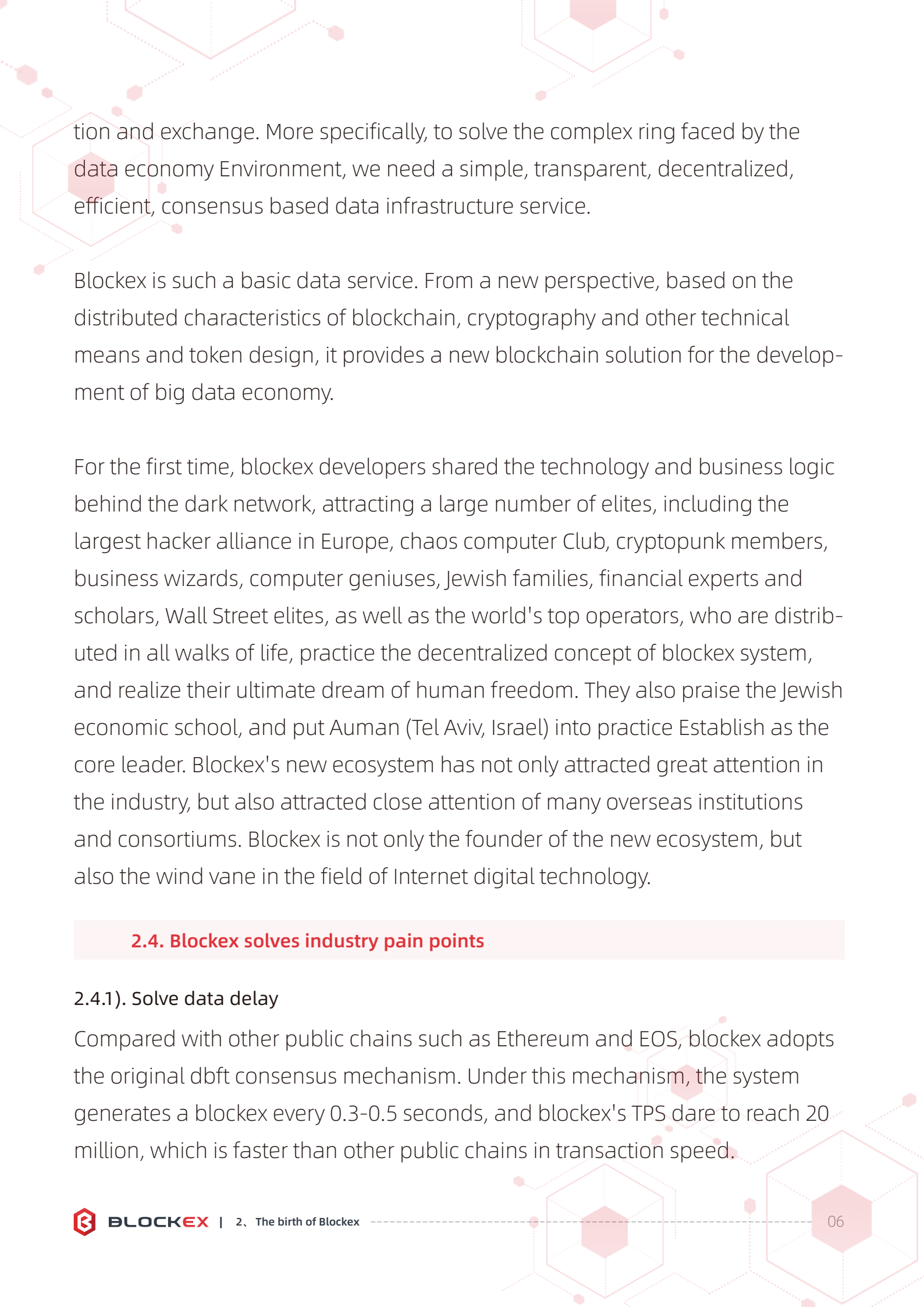
Bullock is determined to build a brand-new trustworthy business value network, let investors' assets grow steadily, let deflation become moderate, let the French currency no longer depreciate, and build a benign economic and ecological era.

## 2.3. Brief introduction of blockex

Blockex is a public chain project, with a TPS of 20 million yuan. It has passed the block chain bottom technology of international Supercomputing Center and multi-national financial data testing center, and obtained the authoritative test report. It is based on the decentralized blockex trading technology, and the slice and layer technology (application layer, contract layer, incentive layer, consensus layer, network layer, data layer), the same as Build multi chain technology, build a stable and safe global decentralized sustainable development economic system.

Due to the ups and downs of the currency price, many people also love and hate the blockchain project, which is mainly caused by various complex algorithm problems in the blockchain data economy. To solve the complex algorithm problems in the blockchain data economy, it is necessary to reconstruct the traditional Internet Organization's way of data collection, storage, calcula-





tion and exchange. More specifically, to solve the complex ring faced by the data economy Environment, we need a simple, transparent, decentralized, efficient, consensus based data infrastructure service.

Blockex is such a basic data service. From a new perspective, based on the distributed characteristics of blockchain, cryptography and other technical means and token design, it provides a new blockchain solution for the development of big data economy.

For the first time, blockex developers shared the technology and business logic behind the dark network, attracting a large number of elites, including the largest hacker alliance in Europe, chaos computer Club, cryptopunk members, business wizards, computer geniuses, Jewish families, financial experts and scholars, Wall Street elites, as well as the world's top operators, who are distributed in all walks of life, practice the decentralized concept of blockex system, and realize their ultimate dream of human freedom. They also praise the Jewish economic school, and put Auman (Tel Aviv, Israel) into practice Establish as the core leader. Blockex's new ecosystem has not only attracted great attention in the industry, but also attracted close attention of many overseas institutions and consortiums. Blockex is not only the founder of the new ecosystem, but also the wind vane in the field of Internet digital technology.

## 2.4. Blockex solves industry pain points

### 2.4.1). Solve data delay

Compared with other public chains such as Ethereum and EOS, blockex adopts the original dbft consensus mechanism. Under this mechanism, the system generates a blockex every 0.3-0.5 seconds, and blockex's TPS dare to reach 20 million, which is faster than other public chains in transaction speed.

#### 2.4.2) Solve data overstaffing

The amount of data is getting larger and larger. At present, the block of bitcoin has exceeded 180g, and the blockex of Ethereum has reached 285g. It will take weeks or even months to synchronize. The current solution is to use light wallet. However, the problem of light wallet is to request data from the server side of the light wallet provider, which has lost the significance of decentralization. It is inevitable that it will bring security risks. Due to the existence of synchronization problem, for individuals, the quick transaction confirmation mechanism designed by blockchain system is of no value.

#### 2.4.3) Solve storage bottleneck

At present, the blockchain design can only realize the full backup storage of the same (unique) data, can not be used for distributed fragmented storage, can not realize the real sense of distributed storage, just put a piece of data in many places, and store a piece of data on the hard disk of multiple blockchain users. For the storage of large-scale application system, no Avoidably, it becomes a bottleneck, because only the superposition of flattening can not be solved by storage, so it is impossible for large-scale industry applications to migrate to the blockchain.

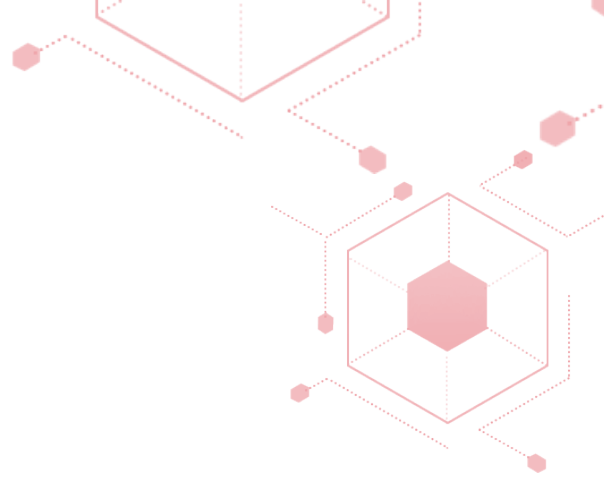
#### 2.4.4) Solve the problem of incomplete audit mechanism

Smart contract interaction is deployed on the main chain, so the main chain will become more and more bloated, and the efficiency of real-time computing and application change for distributed computing will be lower and lower. At the same time, the lack of audit mechanism or the incomplete audit mechanism will inevitably affect the security of the main chain, and ultimately limit the application scope and development.

#### 2.4.5) Solve the economic downturn

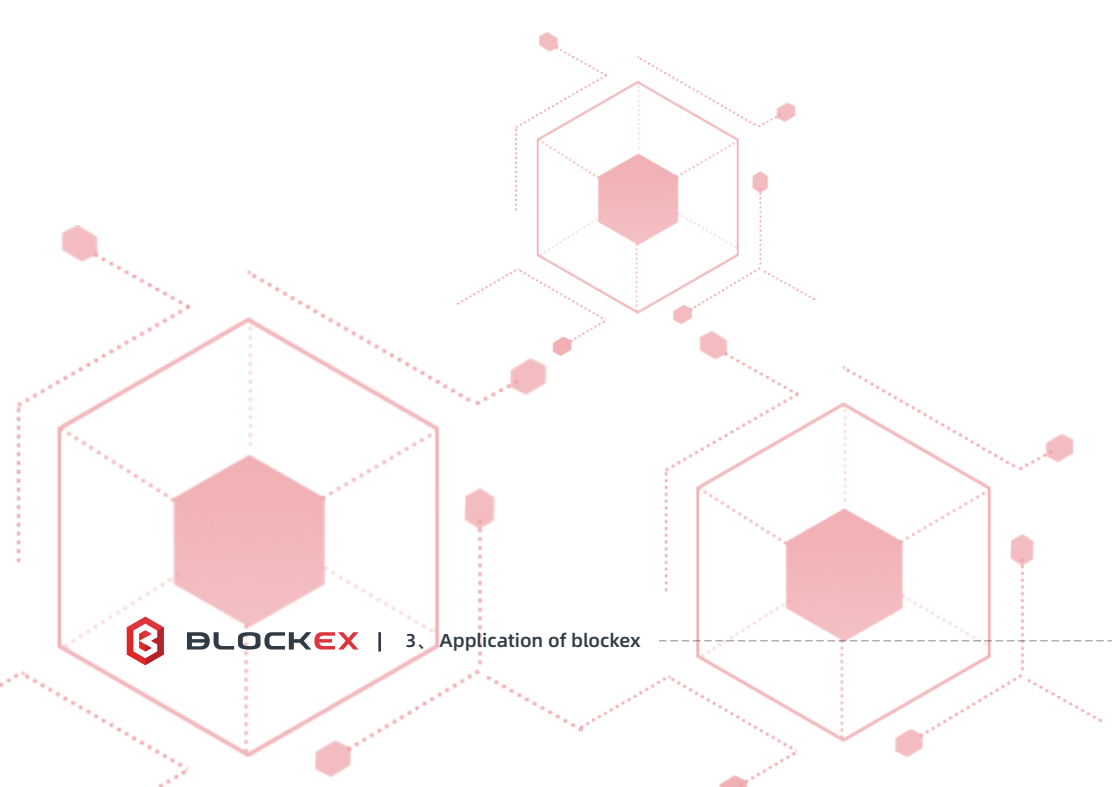
Lagarde once urged policy makers of all countries to take measures to avoid the new mediocrity becoming a new reality. In 2020, China US trade war, four U.S. stock fusions and the new crown epidemic and other factors aggravate the economic downturn, the unemployment rate is gradually rising, social instability continues to surge, one side needs to stabilize the current economic situation, the next needs to reform policies aggressively and accelerate growth "New momentum"





03

# Application of blockex



## 03 Application of blockex

### 3.1. Application of technical principles

Blockex has absorbed the advantages of bitcoin, reborn, Ethereum and super ledger systems, integrated a number of innovative technologies, and formed a new blockchain network architecture. On the one hand, the TPS of the public chain can be more than 20 million, on the other hand, the public chain and the license chain can realize information interconnection and value exchange. It has the decentralized characteristics of the public chain, and can also take into account the performance and implicit of the license chain Private requirements. Decentralized governance enables communities to formulate relevant rules and mobilize the power of each node in the ecosystem to promote development. With convenient expansion and third-party access, developers can build a strong DAPP and Multi Chain ecosystem on block, and jointly maintain the development of block ecosystem.

### 3.2. Ecological Application

Blockex plans to build a new ecosystem that provides data processing, including storage, computer farms, data providers, web hosting, and SaaS applications, all of which do business with each other through blockex.

Blockex will support emerging blockchain based distributed applications, and achieve cost-effective high-performance computing by building a distributed cluster fog infrastructure, so as to achieve on-demand, secure and low-cost access to the most competitive computing base price.

Dapps will rely on blockex for data processing, searching, finding, provisioning, using, and releasing all the computing resources they need: applications, datasets, and servers.

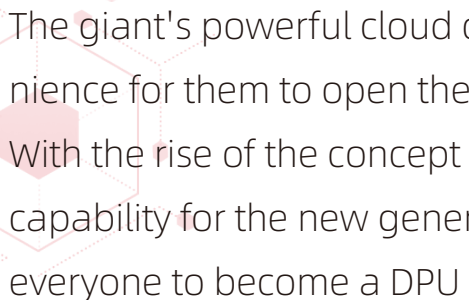
### 3.3. Main network function

Blockex is based on Ethereum and its blockex test side chain, which is realized through extensive development and combines the requirements of data transaction and processing. Blockex has compatible global data processing performance, with the following functions:

- 1) More than 2000000 TPS processes with parallel side chains, and the response time of each data process / transaction can be at the second level.
- 2) Single thread logic processing architecture, in which only the smallest computing logic is reserved in the core business logic;
- 3) All information is processed in memory;
- 4) It avoids using synchronous primitives;
- 5) It avoids including encrypted hash and signature calculation in the core processing logic;
- 6) Small transaction scale and effective use of network transmission bandwidth;
- 7) Optimize the establishment and operation mechanism of smart contracts.

### 3.4. Lightning protocol

With the arrival of the era of artificial intelligence and big data, the demand for data processing is growing rapidly. Data analysis and voice assistant are inseparable from data processing. With the rapid development of data-driven industry, global enterprises generate hundreds of billions of data processing costs every year. It can be said that data processing is one of the most profitable industries in the world.



The giant's powerful cloud computing ability has undoubtedly provided convenience for them to open the 100 billion level enterprise data service market. With the rise of the concept of DPU (data processing unit), it has become a new capability for the new generation of servers. Blockchain technology enables everyone to become a DPU provider, gather the efforts of the public to offset the server cost, improve the service competitiveness, and make profits Assign to more people. Currently DPU lease will be implemented in blockex.

DPU is the first module of blockex lightning plan, and also plays the clarion call of accelerating the construction of public chain. Through the lightning plan, blockex will establish a developer ecosystem and build a new powerful cross chain public chain. In addition to DPU, more and more cutting-edge technologies and services will be further integrated to achieve blockex's powerful service performance!

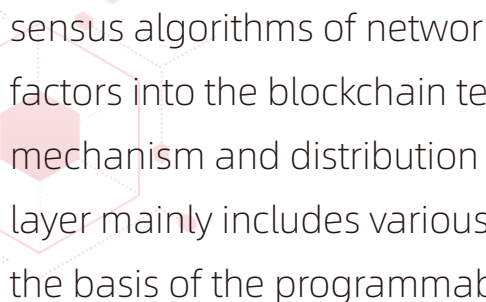
### 3.5. Technical characteristics of blockex system

#### 3.5.1 Technical framework

BLK technology panorama includes basic network layer, intermediate protocol layer and application service layer to realize end-to-end data transparency, reduce costs and risks, effectively solve the phenomenon of information island, and realize the global circulation of data value.

The basic network layer of BLK consists of data layer and network layer. The data layer includes the underlying data blockex and related data encryption and timestamp technologies. The network layer includes distributed networking mechanism, data dissemination mechanism and data verification mechanism.

The intermediate protocol layer is composed of consensus layer, incentive layer and contract layer, in which the consensus layer mainly includes various con-



sensus algorithms of network nodes; the incentive layer integrates economic factors into the blockchain technology system, mainly including the issuance mechanism and distribution mechanism of economic incentives; the contract layer mainly includes various scripts, algorithms and smart contracts, which is the basis of the programmable characteristics of blockchain.

As the most important application link in the digital economy, BLK application service layer includes various application scenarios and cases of blockchain, including programmable currency, programmable finance and programmable society. The application layer is the underlying technology architecture of BLK application ecology, and the open source programmable application layer provides technical guarantee for the establishment of global digital economy application ecology.

### 3.5.2 Asymmetric encryption algorithm

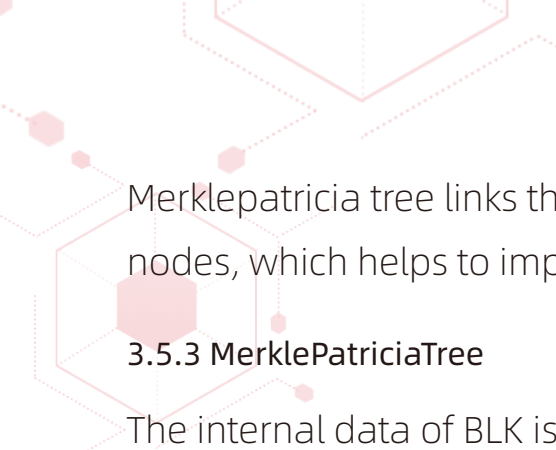
BLK uses asymmetric encryption algorithm to build the trust between nodes. Asymmetric encryption algorithm divides the key into two parts: private key and public key. Private key is used for personal decryption, while public key is used for plaintext encryption and identity representation. All data and text in the network are encrypted by public key and then transmitted. The sender does not need to provide personal private key, but only needs to exchange public key. The data transmission can be completed by assigning the receiver.

Its characteristic is that it can hide the user's identity, the public identity is only the public key provided by the user, and the real personal information will never be exposed in the network.

### 3.5.3 MerklePatriciaTree

The internal data of BLK is stored in the data structure of merklepatricia tree.





Merklepatricia tree links the nodes of the tree through the hash value of the nodes, which helps to improve the security and verifiability of the tree.

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#### 1) Encryption security

First of all, in order to ensure the encryption security of the tree, each node is referenced by its hash instead of 32 bit or 64 bit memory address, that is, the Merkle part of the tree is a node's deterministic encrypted hash. A non leaf node is stored in the leveldb relational database, the key in the database is the node's RLP encoded Sha3 hash, and the value is the node's RLP encoding.

To obtain a non leaf node's child node, you only need to obtain the RLP code of the node according to the hash access database of the child node, and then decode it. Through this mode, the root node becomes the encrypted signature of the whole tree. If the hash of a given trie is public, then everyone can provide a proof, by providing the path up each step, to prove the specific Whether the key of contains the given value.

#### 2) Improve efficiency

BLK introduces many types of nodes to improve efficiency. The nodes in MPT tree include empty nodes, leaf nodes, expansion nodes and branch nodes. The empty nodes are simply empty, which is an empty string in the code. The standard leaf nodes are represented as [key, A list of value, where key is a special hexadecimal code of key, and value is RLP code of value. The extended node is also a list of [key, value], but the value here is the hash of other nodes, which can be used to query the nodes in the database. That is to say, the node is

linked to other nodes through hash. Finally, the branch node, because the The key is encoded as a special hexadecimal representation, plus the last value, so the branch node is a list with a length of 17. The first 16 elements correspond to 16 possible hexadecimal characters in the key. If there is a [key, Value] to terminate at this branch node, the last element represents a value, that is, the branch node can search for the termination of the path or the intermediate node of the path.



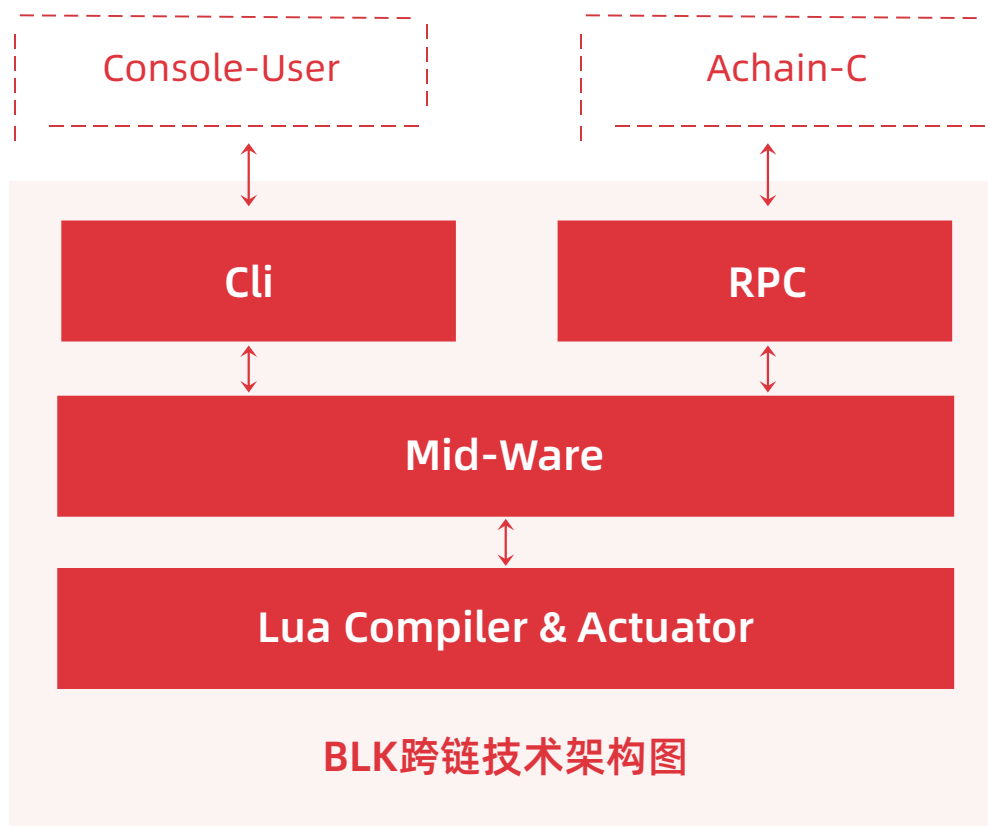
In addition to the four types of nodes, another important concept in the MPT tree is a special hex prefix (HP) code, which is used to code the key. Because the alphabet is hexadecimal, each node may have 16 children. Because there are two types of [key, Value] node (leaf node and extension node), a special terminator identifier is introduced to identify key The corresponding value is the real value, or the hash of other nodes. If the terminator tag is turned on, then the key corresponds to the leaf node, and the corresponding value is the real value. If the terminator tag is turned off, then the value is the hash used to query the corresponding node in the data blockex. No matter the odd or even length of the key, HP can code it. Finally, we Notice a single hex character or 4-bit binary number, a nibble.

HP coding is very simple. Before a nibble is added to the key, the state and parity of the terminator are encoded. The lowest bit indicates parity, and the second lowest bit indicates the state of the terminator. If the key is an even length, then add another nibble with a value of 0 to maintain the overall even characteristics. BLK MPT is used to manage the transaction information, status

and corresponding status changes of the account, as well as related transaction information.

### 3.5.4 cross chain technology

The cross chain communication protocol is the core protocol of blockex, which carries the important role of communication bridge and completes the important mission of cross chain technology upgrading. With the support of two cross chain contracts, blockex can continue to make efforts in the field of financial as the commanding point. All service nodes and autonomous regions constitute a complete Internet system.



### 3.5.5 digital front technology

If the identity of a third party is trusted, then we think that they are trusted third parties. Through digital signature technology, trusted third parties can sign the verified data. The signature not only ensures the non tamperability of the verified data, but also contains the identity information of the trusted third party, allowing all people to verify the open signature.



# 04 Ecosystem

## 04 Ecosystem

### 4.1. Overview of blockchain project ecosystem

In the past five years, blockchain technology companies in the Internet industry have developed rapidly. Now, blockchain technology, cryptocurrency and token sales are very popular. In the past few years, founders and investors mainly focus on the leading market of popular blockchain projects such as centralized transactions, private blockchain solutions and e-wallets.


With the rise of eth, EOS, etc., with its complete programming language (Turing complete) and support for developers to customize the blockex state, it paves the way for the development of smart contracts, which attracts a large number of entrepreneurial teams to develop decentralized projects and find the greatest advantage value assets of blockchain: committed to the formation of a system that everyone can share and trust, without middleman or centralized control.

At present, there are many exciting projects to improve the blockchain function and user experience. However, the market changes so fast that many projects are only in the trial stage and have been abandoned halfway. It is difficult for us to track each project and distinguish which project is doing propaganda and which is doing practical work. In fact, from the project ecosystem, we can see the whole picture . the construction of ecosystem of all projects based on blockchain decentralization can be roughly divided into seven categories: currency, developer tools, financial technology, value trading, data sharing, sover-

### 4.2. Blockex's ecosystem

#### Native system

Blockex is mainly used by developers to build decentralized applications based on blockchain technology. In order to allow users to directly interact with the



protocol through the application interface (non-financial scenario use), many designs need to be verified on a large scale. Blockex developers actively explore related protocol designs involving expansion and versatility, which will also be an important part of the web development stack.

In order to realize our use scenarios based on blockchain sharing trust, such as fully decentralized autonomous organizations (Daos) or mainstream app users managing their own data, these scalable infrastructure frameworks need to continue to grow.

For example, building a decentralized data market requires a series of developer tools and different blockchain advantage functions, such as realizing smart contracts, fast computing, proxy re encryption, absolute security, and ensuring contract execution to ensure release. Originally, they are just the characteristics of a certain public chain, and blockex is to gather these advantages, better For its ecosystem services, so that these protocols can communicate with each other, this interoperability can achieve multiple protocol data and function sharing in a separate application.

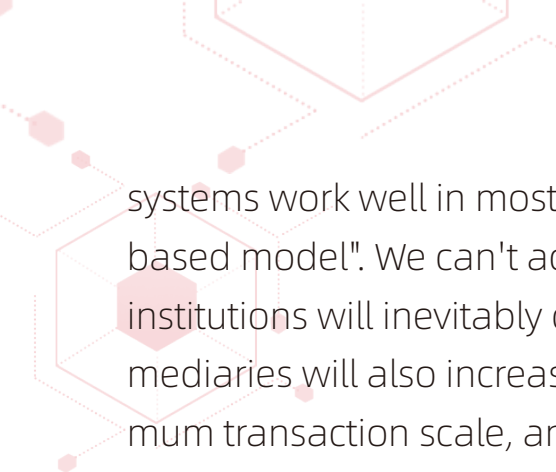
### 4.3. Interpretation of blockex ecosystem

#### 4.3.1) Blockchain game

The game industry has a huge market and is very suitable for the technical concept of blockchain and token economy. Blockex will release a number of blockchain game products based on DAPP platform, including leisure chess and card, adoration cultivation, competitive game, etc.

#### 4.3.2) Point to point payment

Almost all trade on the Internet needs to rely on financial institutions as a trusted third party to handle electronic payment information. Although such



systems work well in most cases, they are still subject to the weakness of "credit based model". We can't achieve all irreversible transactions, because financial institutions will inevitably coordinate disputes. The existence of financial intermediaries will also increase the transaction cost, and limit the practical minimum transaction scale, and also limit the daily small payment transactions.


The unique point-to-point payment method of blockchain realizes the first gradient freedom of digital assets. Point-to-point payment is based on the principle of cryptography rather than credit, which enables any agreed parties to pay directly without the participation of a third-party intermediary. Eliminating the possibility of roll back payment transactions can protect specific sellers from fraud; and for those who want to protect. For those who protect buyers, it is also easy to set up a normal third-party guarantee mechanism in this environment.

#### **4.3.3) Blockex fingerprint punch and face recognition**

Blockex put forward the combination of virtual currency and employee incentive, and the implementation of employee incentive solution based on employee fingerprint card printing, face recognition and other employee performance recording functions, so as to realize a more immediate, effective, fair and transparent employee incentive scheme for the company.

#### **4.3.4) Cross chain multi currency Wallet**

Blockex's digital wallet is a multi asset exchange wallet based on cross chain technology. Cross chain technology helps Blockex wallet has achieved complete decentralization of services. Among them, the contracts in the wallet include remittance contracts and loan contracts. The former is mainly responsible for cross chain transfer and multiple fund businesses of remittance, while the latter is mainly to ensure the security of access to third-party for-profit services,



such as value-added savings, quantitative services, lending, OTC, etc. Blockex's digital wallet is the wealth management entrance of users. In addition, it integrates the functions of information, application download and decentralized wallet. Through the contract, users can safely use all the functions integrated on the wallet.

#### 4.3.5) Medical health

The medical industry is an important industry related to people's livelihood, and the scale of the industry is huge. The blockchain also has a huge space in the medical industry. Blockex will start to collect, trace and integrate medical information and sports health data.

#### 4.3.6) Financial services


Blockex can break through the problems of complex credit verification, long process, high cost and data transmission error in previous financial transactions through trusted data link, distributed data storage, verifiable data storage and other technologies.

Taking advantage of the above advantages, in addition to serving the external financial industry and market, we will develop products and services based on digital asset payment, financial management, lending, cross-border transactions, etc. for the public.

#### 4.3.7) Smart IOT

Intelligent devices have been widely used to track the status of facilities and equipment, such as bridges, roads, power grids, traffic lights, etc. by using the blockex distributed point-to-point network structure, various facilities and equipment can be more efficiently connected to enhance the robustness of the IOT network and the effectiveness of communication. For example, through the blockchain The technology tracks the parameters of the networked vehicle





equipment, and realizes the automatic tracking of vehicle insurance terms, annual vehicle inspection and automatic vehicle claims settlement through the intelligent contract, so as to achieve model innovation in the fields of automobile insurance, vehicle management, etc.

#### 4.3.8) Ownership of copyright

The pain point of copyright lies in the complexity of the process and the lack of credibility. In the blockchain technology environment, every copyright transaction will produce an irreversible transaction record, which means that once recorded on the blockchain, even if the ownership is exchanged, transferred, sold, etc., the asset will always be tracked, so as to solve the copyright problem.

#### 4.3.9) decentralized exchange

The world's top centralized exchange has always been plagued by security issues, and decentralized trading is an irresistible development trend. BLK decentralized exchange relies on the development of underlying infrastructure, and is committed to building a super decentralized exchange integrating the resources of the whole industry.

BLK decentralized exchange realizes real decentralization of asset trading and management through cross chain protocol:

**First**, the user's assets are always in his own hands, holding his own account public key and private key;

**Second**, users do not need to submit identity information to the exchange, so their privacy can be well protected;

**Third**, the decentralized asset wallet increases the difficulty and cost of hackers' stealing. If they want to steal funds, they must break each account separately;



**Fourth**, the smart contract adopts multi signature protection, so the platform can't do evil;

**Fifth**, data cannot be forged. Each transaction must be signed by the user's private key. Transaction records can be checked on the chain. No one can tamper with or forge them.

#### 4.3.10) Third party access

App application industry has a natural fit with blockchain and distributed storage technology. Blockex will expand convenient plug-in development and third-party access architecture based on DAPP platform. Attract more excellent talents to join the ecosystem.

#### 4.3.11) overall platform layout

In addition to the above areas, blockex ecology will also have tens of thousands of applications in the future, serving the food, clothing, housing and transportation of consumers all over the world. Among them, DAPP platform will take the lead in launching. DAPP platform will connect with mainstream apps on the market, blockex supports web, desktop applications, mobile apps And other clients, users can use and manage assets in mobile phones and computers, which greatly facilitates customers.

# BLK Ecosystem





05

# Block exchange

## 05 Blockex exchange

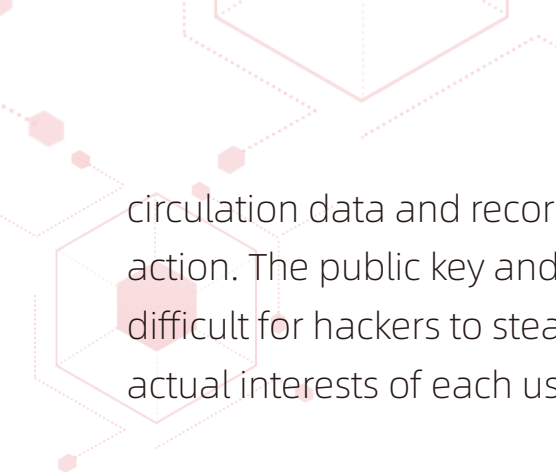
The traditional digital asset trading platform is divided into four types: currency exchange, OTC exchange, O2C exchange and transaction mining, focusing on the online transaction of digital assets, which has the disadvantages of single digital currency circulation platform, few segmentation application entrances, relatively small user groups and so on. Moreover, it has no practical positive role in promoting the application of global blockchain, 80% of which are used for entering the exchange. After experiencing waves of "being cut leeks", households have been complaining, and the traditional exchange has become the target of public criticism.

**Innovation, innovation and win-win** become an important research topic of digital asset trading platform.

Blockex is the world's first decentralized borderless digital asset trading platform based on ripple's rtxp protocol. While retaining the basic functions of the traditional trading platform (currency trading, OTC trading, trading mining, C2C trading, etc.), blockex successfully broke the three boundaries (application boundary, asset boundary) of the traditional digital asset trading platform by virtue of its excellent technical strength. Boundary and functional boundary) have created a new digital economic experience for the world's blockex users.

The user's assets are entrusted by the smart contract and controlled by the user. The exchange does not touch the user's capital. All the transaction, payment, circulation data and record chain are saved to ensure the fairness of the transaction. The public key and private key are multiple authentication, which is difficult for hackers to steal. In addition, the full asset insurance guarantees the actual interests of each user.

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Adhering to the values of "inclusive sharing, alliance innovation and win-win future", we have established a global development alliance with block chain trading platform as the core. With the potential of Asia Pacific Alliance, we have promoted the integration of talents in all fields of the world and expanded the scale of blockex ecological alliance without borders.

Based on the underlying technology of blockchain, blockex trading platform integrates emerging technologies such as 5g, AI / AR and big data, which makes blockex trading platform more functional and applicable.

Blockex trading platform on the borderless chain not only supports platform currency circulation, legal currency trading and currency trading, but also supports traditional asset trading such as foreign exchange, fund and securities. It is a real all asset trading platform. The borderless asset means the seamless connection of block chain and finance, which not only provides a more comprehensive investment strategy for block chain exchange, but also provides a traditional Internet Finance has opened the door of a new era of transformation and upgrading. In today's segmented application field and fragmented user habits, the emergence of block is not only the result oriented after market insight, but also the inevitable trend of the development of the times.

At present, Blockex's borderless chain platform has opened up industries such as tourism, real estate, entertainment, finance, education, etc. in the Asia Pacific region. In the future, it will continue to open up alliance entrances in different fields to create a real blockchain super trading platform that can achieve win-win results for all with a longer-term and sustainable development perspective.

In blockex's exchange, if BLK is used for currency trading or French currency trading, the renewal fee can be deducted according to the example. For example, if BLK is used for 50% deduction, if BLK is used for 40% deduction, and so on;

## **BLK public chain technology**

### **1) Distributed storage**

For most public chains, how to store a large amount of data on their own main chain is an urgent problem to be solved. BLK proposed an inter planning file (IPFs System, P2P distributed file system, which can store data in each node, and then partition data from each node when accessing. It is planned to use the idle space of global data center and hard disk to encourage all parties to participate and solve the required storage scale with a certain incentive mechanism.

### **2) Data security and freedom**

In traditional finance, customers choose merchants' services based on trust and expectation. Expectation and trust often come from experience and value factors such as centralized endorsement, mortgage, or entity touch. When lack of endorsement services for users, users often feel confused and hard to change their ideas. Blockchain is connected with past centralized encryption system and intelligent integration About helps users solve the problem of trust and further realizes the autonomy of the community.

In the pursuit of freedom, blockex expects to build a completely autonomous and efficient community through technology. With the sword of loan contract, traditional service providers can provide services to more users through blockex. When users use these services, the security of data and funds can be guaranteed. Through the series connection of a contract, it will become ecology and be more efficient Access to products and services.

### 3) Consensus mechanism

BLK uses an improved and innovative 2dpos consensus mechanism in book-keeping. 2dpos (data processing based delegation proof) mechanism is an equity authorization proof mechanism based on historical contribution. It combines better Blockex production election process and classic dpos, balances high efficiency and good distributed bookkeeping, and brings security to data processing.

### 4) Parallel public chain technology

BLK bottom layer supports hierarchical architecture and different requirements of application development to analyze big data and develop unique modular design to meet the needs of different application scenarios in the future market. Different products can be formed through the selection and combination of modules. The main chain is responsible for transaction clearing, and the smart contract and virtual machine can be separated from the main chain to the parallel chain to support multiple independent execution. Parallel chains coexist to improve computing efficiency, and parallel chains are independent of each other; BLK supports each application ecosystem to independently develop its own parallel public chain, build its own multi-dimensional ecosystem, and realize the interaction between parallel chains through WMM.

### 5) Universal digital identity

BLK universal digital identity will be the passport of the blockchain world. It will open all applications on the alliance chain, so that users can have unimpeded access to the ecological world built by BLK. Behind the digital identity is the anchoring of asset ownership, personal information, personal background, credit records and social relations. It needs strong trust just like currency.



## 6) Architecture design

In order to make full use of the technical advantages of blockchain and realize the open, trustful, covering, active, residential, financial services, asset anchoring and other digital state systems, block chain system adopts a hierarchical architecture design idea, including response layer, core layer, platform layer and foundation layer Four levels.

### 6.1) Foundation layer

The basic layer provides basic blockchain and storage networking services

At the bottom of the system, provide blockchain related connection services for the upper modules, which is

Core components of systems. Information of important data is stored in blockchain distributed account

In this document, the original image data is stored in the storage network, so that the area can be used

The advantages of block chain, network account information, tampering and the avoidance of original mirror

Like data, it leads to bloated account books. Interaction between storage network and blockchain network

To jointly provide a complete blockchain system platform.

### 6.2) Nuclear layer

Core layer abstractly combs many business scenarios in reality and extracts



common industries

The core function system shall provide services at the layer.

### 6.3) Platform layer

The platform layer extends the basic layer services into digital identity system and smart contract.

Management, digital token state, certificate storage service, information chain service and search engine VI.

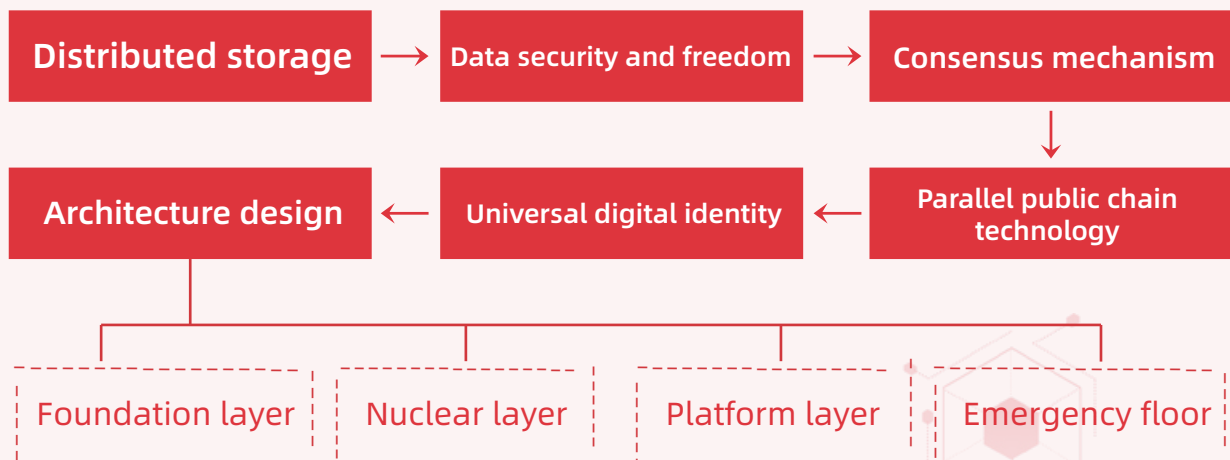
### 6.4) Emergency floor

The application layer utilizes the technical capabilities endowed by the core layer, platform layer, and base layer.

Develop services that meet the actual needs of users, houses, houses, places, beliefs, etc.

Services/DApps, etc., any organization/institution can provide corresponding services/DApps. In addition, the BLK public chain platform will have a built-in "asset anchoring" system to support asset tokens

## BLK Public Chain Technology





06

# Distribution plan

## 06 Distribution plan

### 6.1. Token distribution plan

Blockex is the public link token of blockex, and it is a cryptocurrency based on the distributed network. The total amount is constant at 500 million and the mother currency is 5 million.

BLK has issued a total of 1 billion.

Issuing method: income from holding currency and promotion.

Calculation method: the part of the trading platform transferred to the mining pool can participate in the dividend, the two parts are not locked, mutual transfer and trading at any time.

Holding income: 1. Holding a certain amount of BLK can participate in the holding dividend, and the minimum holding is dynamically adjusted; now the minimum holding is 100 coins. 2. Proportion dividend according to the holding ranking;

### 6.2. Main network development and planning

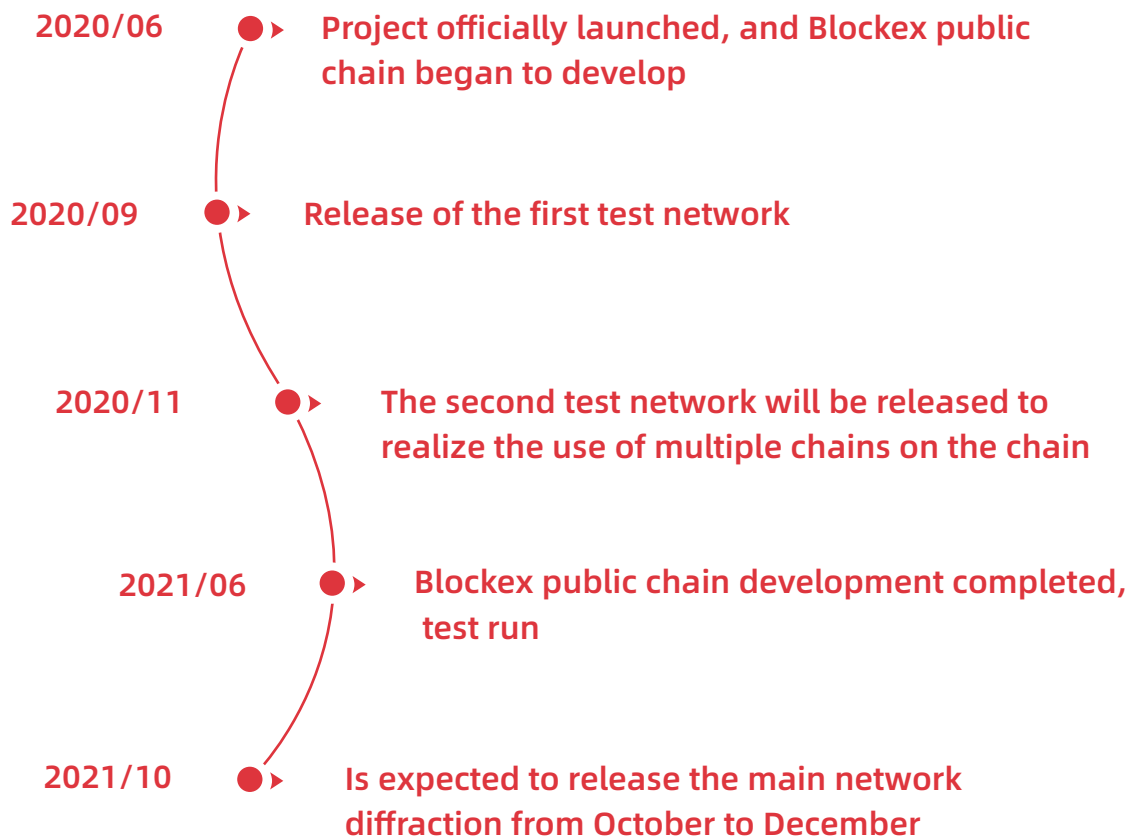
The first day's coin production of the whole network is 16666 yuan, which will increase by 5% every day until the peak value is 390000 yuan, and the annual calculation power will be reduced by 20%

There are 5 million BLK ecological mining pools, including 5 million balance mining pools and 500 million for community construction.

Dark network is sent out, and DAPP is decentralized Automatic operation, never shut down the network.

High performance commercial expansion public chain, 20-30 million TPS / s, 0.3 second blockex.

**Main network timeline:**



**6.3. Issue cycle**

BLK is an open-source algorithm based on "rtxp" protocol, with a total of 500 million. BLK has five distribution stages in total:

The first stage of issuance June 2020 to December 2020 (six months)	The first 5 million, a monthly increase of 10%
The second stage is 2021.01-2021.12 (one year)	With a monthly growth of 8% in one year
The third stage is 2022.01-2023.12 (two years)	With a monthly growth of 5% in two years
The fourth stage: 2024.01-2026.12 (3 years)	With a monthly growth of 3% in three years
The fifth stage of issuance: 2027.01-2030.06 (three years and six months)	Maintaining a monthly growth of 2%, until the issuance of 500 million


Note: 50% of the total output each time is used for the user's cash dividend reward, and the other 50% is used for the user's promotion reward.

#### 6.4. Triple deflation mechanism

The economic model of Blockex's super deflation requires that the miners need to melt a certain amount of BLK to obtain the basic reliable calculation force and extraction rate to participate in mining.

**Deflationary destruction:** Every two years to reduce the half, miners must burn a certain amount of money in order to obtain mining calculation and extraction rate.

**Combustion deflation:** The combustion mining of BLK requires the destruction of a certain amount of money in advance to activate the mining right and the corresponding mining calculation power, which is a natural deflation mechanism.



**Deflation of extraction rate:** Since the extraction rate of all miners can not reach 100%, all parts except the extraction rate will be destroyed automatically, which will greatly reduce the total amount of BLK, making the market circulation of BLK more and more scarce.



07

# Project rules and benefits



## 07 Project rules and benefits

### 7.1. Currency holding income

Holding a certain amount of BLK can participate in the currency holding dividend, and the minimum holding can be dynamically adjusted; the proportion dividend is based on the currency holding ranking; the total number is 1 billion, the first phase is 15 million, the first six months increase by 10%, the next one year increase by 8%, the next two years increase by 5%, the third three years increase by 3%, the next three years and six months maintain the monthly increase by 2%, until 10 100 million of them have been issued. 50% of the total output per day is used for users' holding bonus, and the other 50% is used for users' promotion bonus.

$$A_i = \frac{M_i}{M_1 + M_2 + M_3 + \dots + M_n} \times \frac{W}{2}$$

M is the ranking of BLK holdings. Those holding the same number of Blks are in the same ranking. W is the total BLK issuance of the whole network. A is the currency holding income of the user on that day.

## 7.2. Promotion income

The promotion link relationship is generated by invitation code. The promotion link relationship is formed by purchasing BLK in blockex exchange.

$$B_i = \frac{X_i}{X_1 + X_2 + X_3 + \dots + X_n} \times \frac{W}{2}$$

BLK will be newly released every day, of which 50% will be automatically allocated according to the proportion of linked users in the total power.

$$A_i = \sqrt[3]{P_{\max}} + P_1 + P_2 + P_3 + \dots P_n$$

X is the propagation power of the user point, W is the total issuance of BLK coins in the whole network, W is the number of BLK coins in the largest access point, and P is the common access (the team performance of the common access is less than 10000 times 10, to calculate the promotion calculation power, and the excess part is not multiplied by 10).



08

# Introduction to blockex encryption fund

## 08 Introduction to blockex encryption fund

As an international community, blockex has set up an encryption foundation in the United States to maintain the normal development and operation of the community and products, and is responsible for managing the digital assets and security raised. The blockex encryption fund will be composed of the following parts:

**-Decision making Committee:** Blockex encryption fund will set up a decision-making committee, whose functions include the appointment or dismissal of the executive director, as well as the heads of each functional Committee, making important decisions, holding emergency meetings, etc.

**-Executive Director:** The executive director is elected by the decision-making committee of blockex encryption fund, responsible for the daily operation and management of the foundation, the work coordination of all subordinate committees, presiding over the meeting of the decision-making committee, and reporting the work to the decision-making committee on a regular basis.

-Sub committees:

**1) Blockex encryption fund application Committee:** The chief product experience officer of the foundation is responsible for grasping the application development direction of blockex encryption fund, expanding the application scenarios and building a good product application ecology;

**2) Blockex encryption fund code review committee:** Composed of the core development team of blockex encryption fund, it is responsible for the underlying technology development, client core application and development and code review, following up the latest technology in the blockchain field, and

### 3) Blockex encryption fund financial and personnel management committee:

The financial and personnel management committee is responsible for the application and review of project raised funds, salary management of developers, recruitment of personnel, daily operating expenses, etc. and issues monthly financial reports every week;

4) **Market and Public Relations Committee:** mainly for the community, responsible for the promotion of cryptocurrency service network, the popularization of technology, the growth of the community, and the publicity and public relations of products.

Legal compliance: provide a more stable development environment for value creation, blockex encryption fund We are committed to meeting the legal regulatory requirements of different jurisdictions around the world. Within the scope of law, rblb is a non-profit organization, and users in the chain obtain the right to use the rblb platform. The buyer should understand that the rblb platform does not make any form of guarantee, so the rblb certificate will not provide a refund under any circumstances.



09

# Team Introduction

## 09 Team Introduction

### **CEO of Raul falquez, data acquisition architecture design**

Dr. Dalhousie in software programming, founder of epiphany in Canada  
NEC.GemPlus CTO, blockchain data communication, architecture research.

### **NachoArias CTO**

Bangalore University Master of software engineering, dedicated to the research of distributed technology and blockchain architecture. Familiar with only contract deployment interaction and SOA system architecture.

### **SergioPerea COO**

Graduated from the National Undergraduate Department of economics in all North Korea, served as the overseas media economy of many blockchain projects, and was responsible for overseas social networking such as twitter, Facebook, telegram, medium, line, etc  
Operation and promotion of media.

### **Stacy Zhang Senior Software Engineer**

He is a doctor of Engineering in Princeton, a senior software engineer of apple and a senior engineer of Google. He is proficient in C++, Objective-C and Java programming technology, and has more than ten years of system architecture and development experience

### **Scott Dietzen BVS COO**

Bachelor's degree in economics, University of Chicago, USA, once worked for Goldman Sachs Group, mainly responsible for enterprise asset management and information consulting, providing investment consulting and financial planning services for enterprises, financial institutions, governments and individuals.



10

# Investment institutions



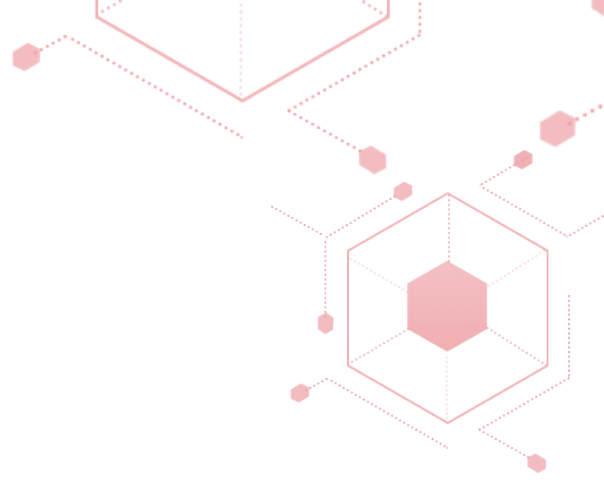
## 10 Investment institutions



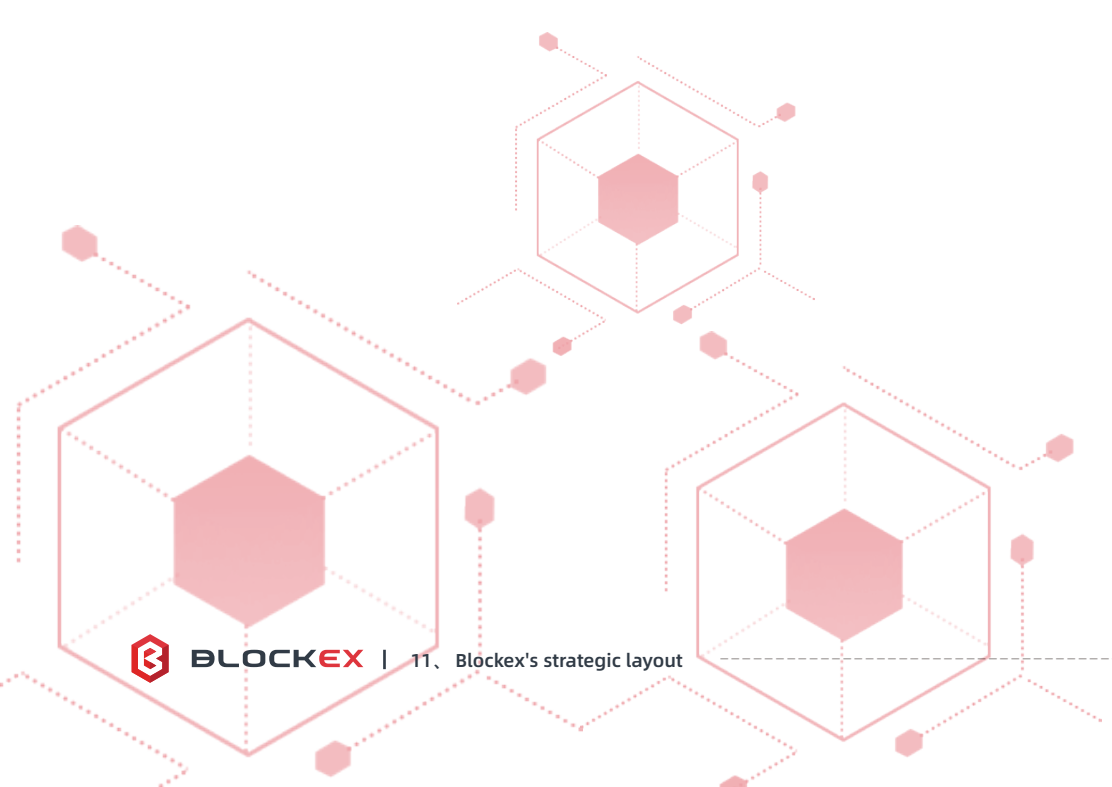
TOKENMANIA

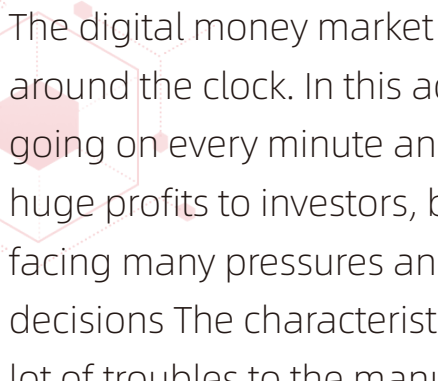


**FINCITY**



# 11 Blockex's strategic layout





The digital money market is a global financial trading market that operates around the clock. In this active market, a large number of transactions are going on every minute and every second. Its huge volatility can not only bring huge profits to investors, but also may cause huge losses. Therefore, traders are facing many pressures and challenges in the process of implementing trading decisions. The characteristics of the continuous operation of hours also bring a lot of troubles to the manual operation.

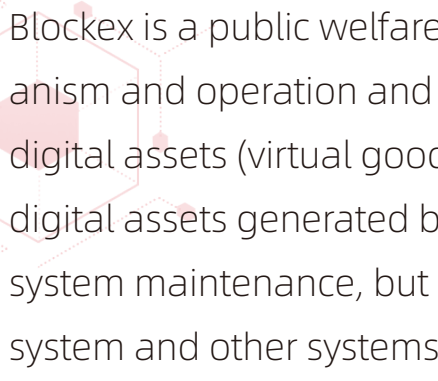
Blockex encryption As a fund tracking mainstream currencies, fund aims to reduce the tracking error with the target index. When investors buy BLK, they can quickly set up positions, save the cost of choosing and buying and selling digital assets, and hold for a long time, which makes it more convenient to track mainstream currencies. Blockex also provides customers with automatic quantitative trading services, which can keep an eye on every investment opportunity at any time. Analysis of transaction risk. It also provides investors with short-term investment, construction of hedging, reduction of holdings of digital assets for purchase of BLK, and precise matching of investment. 风 GE's multi-functional investment products. In the future, blockex will also cooperate with mainstream wallets, exchanges and traditional index institutions, provide more investment interfaces, obtain more users, and strengthen the blockex ecosystem.



The business scope of blockex ecosystem covers the global digital asset investment users. It has set up independent transaction business or operation centers in Thailand, Singapore, the United States, Japan, South Korea, Hong Kong and other countries and regions. It is committed to gradually implement the global image of BLK main network and complete the docking and development of all-round applications. At the same time, blockex will focus on high-quality digital asset investment machines. It will incubate high-quality projects and provide more than 100 pairs of trading and investment services for digital asset categories in the ecosystem, so as to realize the real application of scenarios and win-win ecological diversity.



# 12 Risk tips and Disclaimers



Blockex is a public welfare, non-profit system. The future internal reward mechanism and operation and maintenance mechanism of the system adopt virtual digital assets (virtual goods), rather than monetary reward mechanism. The digital assets generated by the system itself can be used as the reward for system maintenance, but in order to meet the resource exchange between the system and other systems or other social subjects, a certain amount of bits are needed. The intervention of other virtual digital assets such as currency.

The value goal created by blockex mechanism is to create blockex application platform and use scenarios for participants and holders, as well as the application value and scarcity experience of virtual goods, rather than monetary value or transaction value. We cannot guarantee that blockex process will always increase in value, and it may also decline in psychological cognitive value in some cases. Please read blockex white carefully Leather book, a comprehensive understanding of blockex's technical characteristics, risk and return characteristics, and it is clear that blockex project will not provide return or withdrawal of cash of exchanged digital assets under any circumstances.

Although the blockex team is dedicated, diligent and fulfills the obligations of the board management, the buyer still has the risk of loss, including possible policy risk, economic cycle risk, liquidity risk, information security risk, market volatility risk, etc.

Bullock project participants need to fully consider their own risk tolerance, rational judgment and prudent decision-making. Once they participate in the project, they will understand and accept the project risk, and are willing to bear all the corresponding results or consequences.