



TFX blockchain application platform

Build the world's leading blockchain infrastructure and application ecosystem



preface

Since the birth of blockchain technology represented by Bitcoin in 2008, the technology has achieved considerable development and more and more attention and recognition, especially in recent years, blockchain technology has become the focus of global attention.

The researchers and developers of the blockchain industry have carried out all-round explorations from the realization of the underlying core technology to the application on the chain and then to the application in various scenarios. There is still a big gap between blockchain technology and large-scale practical application. In particular, the underlying core technology of blockchain has not yet made major breakthroughs. There are still many technical problems to be overcome. The foundation is unstable and it is difficult to exert practical effects. Therefore, it is urgent to carry out research and development on the underlying infrastructure of the blockchain, so as to provide reliable support for various blockchain applications, so as to promote the real application of blockchain technology in various fields and industries, so that the disruptive technology of blockchain can serve human society faster and better.

- Blockchain 1.0 is the first-generation blockchain with Bitcoin as the core, which has low efficiency, slow speed, low scalability, but extremely high security.

- Blockchain 2.0 is a smart contract chain with Ethereum as the core, which has high efficiency, fast speed, large scalability and moderate security. However, the proof-of-work mechanism of blockchain 2.0 makes the DAPP based on Ethereum huge and expensive, which makes many innovative applications unable to be used in ETH smart contracts.

- Blockchain 3.0 is based on the ETH parallel chain BSC that meets the standard of Binance Smart Contract. The proof-of-work mechanism has been modified. BSC adopts node accounting. BSC has 21 nodes elected by BNB holders. The speed is extremely fast, but Security is not high. On the BSC smart contract, many excellent DAPP applications, chain games and practical tools have been born, so that the ecology of the blockchain can prosper.

The Silicon Valley Blockchain Digital Research Institute has created the world's

leading blockchain infrastructure and application ecosystem - the TFX blockchain application platform. At this stage, based on the Binance Smart Chain BSC, BSC-based tokens and its own DAPP and chain games are issued, and are upwardly compatible with ETH contracts. The project is based on the strong BSC network at the beginning, which can make the project faster and safer.

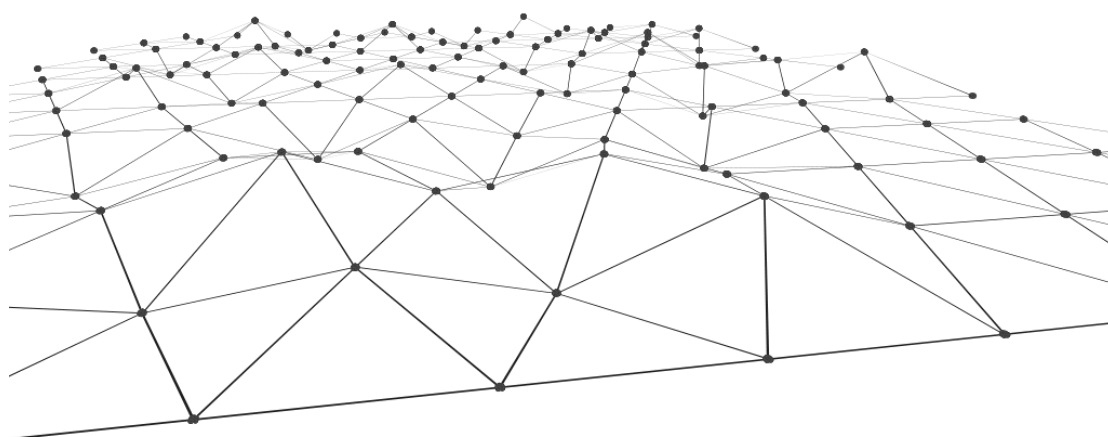
The TFX blockchain application platform aims to provide valuable Internet infrastructure, and the existing blockchain infrastructure has a low degree of practicality, especially transaction congestion, high transaction fees, long transaction confirmation time, and resistance to quantum attacks. Weakness, low anonymity of communication layer nodes, transaction anonymity protection, weak cross-chain communication and multi-chain integration capabilities, large storage space and other problems and needs, optimize and improve the protocols and mechanisms of blockchain technology at all levels to achieve The supporting protocols at all levels of the value transmission network, as a true exploration of blockchain 4.0, provide infrastructure for various value transmission applications, provide underlying development applications for various DApp development, and provide a realistic and feasible technical approach for building a global value Internet .

The TFX blockchain application platform reshapes the existing blockchain application model by providing application services including easy shopping, social networking, chain games, entertainment, funbu, public welfare, etc., and introduces the Token mechanism in the incentive layer to achieve The purpose of providing users with a flexible consensus mechanism, incentivizing the community to maintain the TFX blockchain application platform and developing DApp applications on the platform, adding value to the platform and promoting the network propagation effect, turning the economic incentive system itself into a system that can circulate within the system , to create a completely decentralized value interconnection and value transmission ecosystem.

In the future, as the number of people on the TFX blockchain application platform increases, we will launch a fast, secure, and highly scalable ETH parallel chain in the form of node votes + half proof. Blockchain 4.0 is upwardly compatible with ETH ecology and BSC ecology, and realizes token transactions across chains, so that users' tokens can be safely and stably transitioned to 4.0 and become the main currency. At this time, the value of this coin has risen by several dimensions. The smart contract ecology based on this coin will cover various ecological applications such as finance, community, real estate, and social networking.

This white paper is written based on the efficient circulation and drainage incentives of the digital currency TFX blockchain application platform. Through the creation of the platform, it provides efficient technical support for ecological development. This white paper will give an overview of the project's prospects in terms of project background, blockchain technology core, industry development pain points, and technical solutions. In addition, an in-depth interpretation of the development model, design principles, technical characteristics, technical architecture, application ecology, token economic model, core team, foundation management, etc. of the TFX blockchain application platform will also be conducted to allow users, partners and investment Readers and others have a better understanding of the TFX blockchain application platform and the core value of the future.

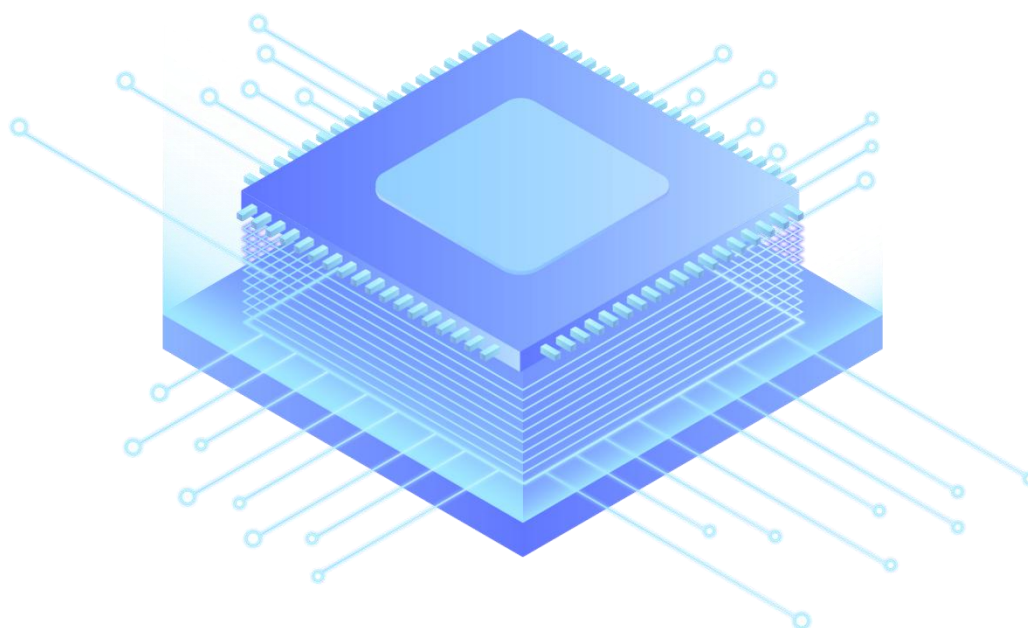
The TFX blockchain application platform does not illustrate a pure concept or a product with low feasibility. On the contrary, the TFX blockchain application platform is built on the basis of commercial big data basic model and data finance and innovative storage technology. It not only has complete business logic and application scenarios, but also has very mature practical products. It is the founder, the development team and the operation team that clearly understand that changing the entire encryption industry is a long and arduous process, but our original intention will not change and we will continue to work hard for it.



catalogue

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Chapter I: An Overview of Blockchain Technology Development

1.1 The concept of blockchain technology

In a broad sense, block chain technology is using block chain data structure to verify and store data, using distributed node consensus algorithm to generate and update data, using cryptography to ensure the security of data transmission and access, the use of automated script code to programming and operation data of a new distributed infrastructure and computing paradigm..Compared with traditional technologies, blockchain technology has the following prominent characteristics:

1) Decentralization

Decentralization is a relative concept, and blockchain is a typical distributed system that achieves consensus without centralized control. Blockchain technology is based on a peer-to-peer network. The nodes participating in the blockchain system may not belong to the same organization and do not need to trust each other. This is the decentralization of the blockchain architecture. The blockchain data is jointly maintained by all nodes, and each node participating in the maintenance can copy and obtain a complete data. Through the consensus algorithm, it is difficult for a few people to control the entire system and realize the decentralization of blockchain governance.

2) Self-discipline and incentive mechanism

In a centralized system, it is very difficult to implement a self-discipline mechanism. The system controller always has the urge to modify the system to gain benefits, and the participants also have the motive to falsify data. Modifications to systems and falsification of data are difficult to prevent and detect. On the basis of decentralization, blockchain technology realizes the unalterable and traceable data records on the chain. Any data on the chain of participants will be recorded in real, and they have to be self-disciplined. At the same time as self-discipline, blockchain also introduces "incentive mechanisms", especially economic incentives. Self-discipline and incentive mechanisms are the basis for blockchain technology to

establish an application ecology, avoiding various drawbacks of traditional systems.

3) Trust Mechanism

Blockchain technology enables consensus in a trustless distributed system. The traditional distributed system consensus algorithm focuses on solving the problems of unreliable node communication, downtime, timing, etc., usually assuming that there is no subjective evil. In the blockchain system, more attention is paid to how to solve the Byzantine fault tolerance problem, that is, how to achieve final consistency in a non-trusted network environment in the presence of malicious nodes. The process of reaching a consensus in the blockchain is generally as follows: first, some nodes conduct bookkeeping, and then other people verify it, and a consensus is reached when the verification is passed. The ultimate goal of consensus is to achieve a transaction confirmation speed comparable to that provided by the current centralized system while maintaining a high degree of decentralization and security. Although the consensus algorithms such as POW, POS, DPOS, BFT, and Kafka that are widely used at present have compromised in these two aspects and have not achieved the ideal goal, it is believed that there must be a balance between security, speed and decentralization. A consensus mechanism emerges.

4) Smart Contract

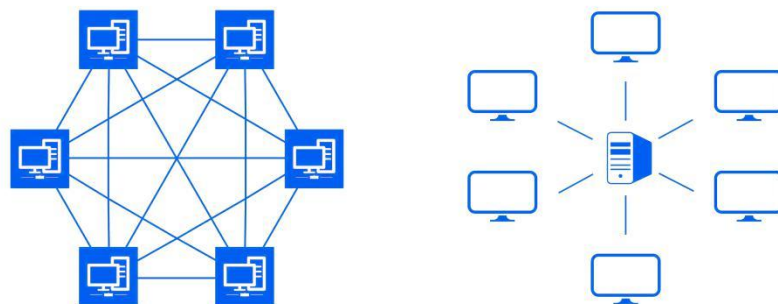
Smart contracts on the blockchain are expressed in program code and automatically trigger execution according to certain conditions. Compared with paper contracts, the smart contract transformation points of blockchain technology are mainly reflected in the following aspects:

- In the blockchain ecosystem, no independent party can control the execution process of smart contracts;
- By directly storing the smart contract on the blockchain, it can be ensured that once the contract program is tampered with, it can be quickly discovered, which effectively guarantees the security of the business;
- The blockchain realizes the digitization of currency, provides a natural way for a large number of funds in contracts, and can effectively prevent the operation of malicious code;

- With the emergence of the Ethereum blockchain platform, smart contracts can perform arbitrary calculations, which can support more complex businesses.

5) Reshape the business model

Blockchain is not a new technology born out of thin air. It has evolved and developed over the years, and business application scenarios are constantly changing and breaking through. A typical model of modern business is that two or more parties to a transaction complete the transaction process through negotiation and contract execution. During the transaction, both parties or a third party keep accounts at the same time, and there is a problem of mutual distrust. What blockchain is good at is how to manage contracts and ensure the smooth execution of contracts. The key to whether a new technology can be deeply applied is whether it can ultimately reduce costs or create value. Blockchain technology is what makes digital transaction-based activity tracking cheaper and more secure. All business models related to information, value, credit, etc. may be inspired or directly benefited from blockchain technology.



1.2 Development path of blockchain technology

At present, blockchain technology is called by many large institutions as a major breakthrough technology that revolutionizes the way business and even institutions operate. The technical foundation of blockchain is distributed network

architecture. It is precisely because of the maturity of distributed network technology that decentralized, weak, decentralized and shared, consensus, shared organizational architecture and business architecture are likely to be effectively established. Today's blockchain technology has undergone several iterations:

1) Digital currency stage

In early 2009, the Bitcoin network was officially launched. As a virtual currency system, the total amount of Bitcoin is limited by the network consensus protocol, and no individual or institution can modify the supply and transaction records at will. The underlying technology that supports the operation of Bitcoin - blockchain is actually an extremely ingenious distributed shared ledger and point-to-point value transmission technology, and its potential impact on finance and even all walks of life may be no less than double-entry bookkeeping. 's invention.

2) Smart contract stage

Around 2014, the industry began to recognize the important application value of blockchain technology, and tried to create a shared technology platform and provide BaaS (Blockchain as a service) services to developers, which greatly improved transaction speed and greatly reduced resource consumption. And supports a variety of consensus algorithms such as PoW, PoS and DPoS.

3) Blockchain application extension stage

After 2015, with the rise of technologies based on the DAG data structure such as Byteball and IOTA, the blockchain system is more efficient, scalable, interoperable, and has a better user experience than before, and its applications are further extended to Medical and health, IP copyright, education, Internet of Things, sharing economy, communication, social management, charity, cultural entertainment, etc. are more widely used.

4) The stage of improving the ecosystem

The blockchain technology based on the HashNet data structure and Binance smart contracts has gradually attracted the attention of the industry. The consensus algorithm based on the data structure can achieve a qualitative leap in transaction throughput and scalability, thereby further supporting the blockchain as a The infrastructure of a certain industry and the formation of a perfect ecosystem based

on blockchain will extensively and profoundly change people's way of life.

With the improvement of people's awareness of the scope of application and availability of blockchain technology, people have carried out the research, development and implementation of the underlying core technology, on-chain applications and scenarios of blockchain with great enthusiasm. The research and exploration of blockchain technology mainly focuses on three levels:

- The first is the underlying technology and infrastructure layer, which mainly includes basic protocols and blockchain-related hardware content.

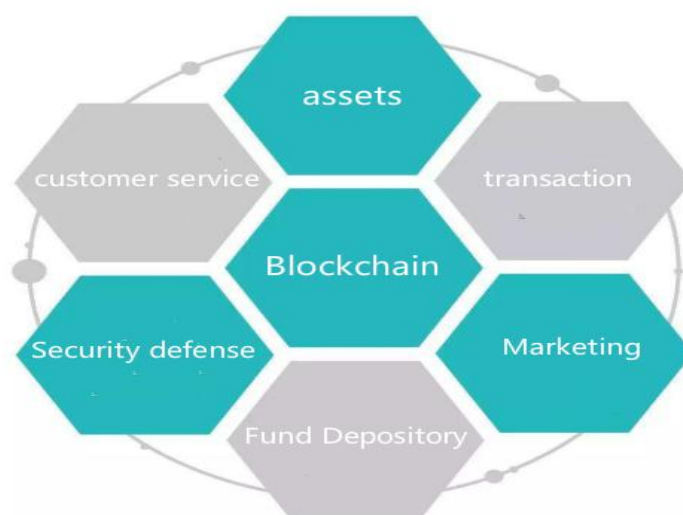
- The second is the general application and technology extension layer: provides services and interfaces and related technical services for the vertical application layer of the industry. The services provided include smart contracts, fast computing, mining services, information security, data services, BaaS, solutions, and anti-counterfeiting, traceability, etc.

- The third is the vertical industry application layer: implemented in vertical fields such as finance, digital currency, entertainment, supply chain, medical care, law, energy, public welfare, social networking, Internet of Things and agriculture.

At present, people have devoted great enthusiasm to the research and development and application of blockchain technology. Among the teams engaged in blockchain research and development, about 20% are engaged in the research of the underlying technology of blockchain. 80% of the teams are used in various practical application scenarios and vertical industries. Compared with the application layer, the underlying protocol can create token market value, and it also disperses the traditional Internet model of application layer data centering. Under the blockchain system, the application layer project itself has become a complete service provider, and no longer has user traffic and data value. The value of these personal data is distributed to users, and the underlying protocol will be more valuable than the application layer.

1.3 The Application of blockchain technology

The birth of blockchain marks the beginning of human beings to build a truly trusted Internet.



There is a new view that blockchain technology can build an efficient and reliable value transmission system, promote the Internet to become a network infrastructure to build social trust, and realize the effective transmission of value, and call this the value Internet. We have noticed that blockchain provides a new social trust mechanism and lays a new cornerstone for the development of the digital economy. "Blockchain +" application innovation shows a new direction of industrial innovation and public services.

Blockchain technology has begun to be deployed and applied in the world. The United States, Britain, Japan, Germany, Canada, Australia and other developed countries have realized that blockchain technology has huge application prospects in public service and social mechanism optimization, and have begun to design the development path of blockchain. There are two main application trends:

From the perspective of public services, blockchain technology is exploring the application of public management, social security, intellectual property management and protection, land ownership management and other

fields. Relevant practice shows that this technology helps to enhance public participation, reduce social operation costs, improve the quality and efficiency of social management, and plays an important role in promoting the improvement of social management and governance level.

From the perspective of economic society, the blockchain economy has sprouted. Many blockchain-based solutions can improve existing business rules, build new industrial collaboration models, and improve the efficiency of collaborative circulation. Central banks and major commercial banks, as well as the United Nations, the INTERNATIONAL Monetary Fund and many national government research institutions, have paid great attention to "blockchain +".

Blockchain can provide systematic support for economic and social transformation and upgrading. The significant advantage of blockchain + lies in optimizing business processes, reducing operating costs and improving collaborative efficiency. This advantage has been initially reflected in various social fields such as financial services, supply chain management, intellectual property, intelligent manufacturing, social welfare, and education and employment.

1.4 The boom of the digital currency economy

The headlines of the era of the digital economy are just the Internet. It accelerated the progress of human civilization, opened a new era; it permeates all aspects of social production and life, profoundly changes the way of human society operation.

Since the birth of bitcoin in 2009, it has become the most important application achievement, quickly attracting the attention of financial companies. It is found that the application of blockchain technology on the basis of the Internet, can build a more secure and stable, mutual assistance and sharing of the enterprise ecological environment. Subsequently, the financial industry, Internet enterprises and IT enterprises are all joining the exploration of the application and promotion of digital currency. Since 2017, the market with blockchain as the underlying technology layer and various derivative digital assets has experienced explosive development. The market currently has more than 3,500 digital assets of a certain size, an economy of more than \$1 trillion and still growing exponentially, with huge

market potential.

Financial services are the first application area of blockchain technology, especially in the payment field. Using blockchain technology can solve the pain points existing in payment, asset management, securities and other fields. Take the payment field as an example, the cost of reconciliation, settlement and settlement among financial institutions, especially cross-border financial institutions, is high, which involves many manual processes, which not only leads to high costs on the client end and the back end of financial institutions, but also makes it difficult to carry out micropayment business. The application of blockchain technology can help reduce the cost of account reconciliation and dispute settlement among financial institutions, and significantly improve the processing efficiency of payment services. In addition, the cost and efficiency advantages brought by blockchain technology to the payment field enable financial institutions to better deal with small cross-border payments deemed unrealistic due to high costs in the past, and help to realize inclusive finance.

According to CoinMarketCap, by the beginning of 2022, there were more than 12,000 crypto digital assets worth more than one trillion dollars worldwide. Meanwhile, the number of investors in crypto digital assets is conservatively estimated at more than 300 million. Although crypto digital assets have achieved phased development, looking at the global economy and traditional financial markets, crypto digital assets still have a huge market space in the future.

The trend of asset digitization has taken shape. The Internet of Things, big data, artificial intelligence and asset security needs promote the digitization of assets. In the future, all assets will be digitized and can be confirmed and used in the network. The gradual maturity of blockchain technology and digital currency have inspired the national economic system. At present, many countries have issued national digital currencies. The International Monetary Fund believes that central banks should consider issuing digital currencies, while the United States, China and the European Central Bank do keep close attention and active research on digital currency. At present, the investor penetration rate of crypto digital assets is still very low. Compared with stocks, real estate, gold and other investments, crypto digital assets are more investment value under the trend of digital assets.

1.5 Future development trend forecast

Blockchain technology and digital currency will have a huge impact on the existing economy and society, and are expected to reshape the shape of human Internet activities. The development trend of blockchain and digital currency mainly has the following aspects:

First, the application mode upgrade. In view of the increasing security and transaction volume of the public chain and the balance between the current network capacity, the future application field of blockchain will be mainly alliance chain, private chain or hybrid chain. The bitcoin model increases the maintenance cost of blockchain networks and is not fully applicable for low-value, low-risk transactions. Considering the improvement in efficiency and security, the future will be composed of alliance chains, private chains, or hybrid chains composed of alliance chains and private chains.

Second, decentralization / decentralization. In the future, the blockchain system architecture will be to build a trusted multi-center / de-center system, which will promote separate single centers into a unified multi-center with multiple participation, so as to improve the efficiency of trust transmission and reduce transaction costs. That is, in the environment of information asymmetry and uncertainty, to establish a "trust" ecosystem that meets the occurrence and development of various activities.

Third, financial innovation will drive the application breakthroughs in other industries. The application field of blockchain will start from the areas where the transaction parties need to establish mutual trust, but it is not easy to establish trust relationships, such as finance, securities, insurance and other fields. With the popularization of applications and the improvement of social awareness, blockchain will gradually penetrate into all fields of society. For example, blockchain has been preliminarily applied in political election, corporate shareholder voting, market prediction and other fields.

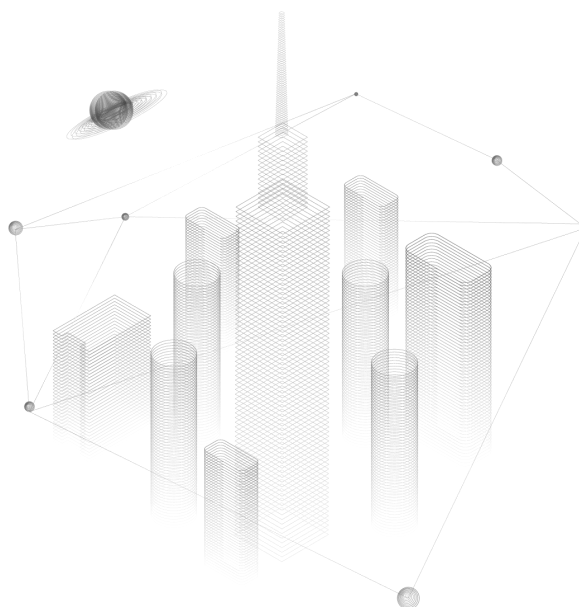
Fourth, the socialization of smart contracts. In the future, all contractual agreements will be intelligent. The use of smart contracts can ensure the reliable implementation of all agreements, and avoid tampering, denial and default. In addition to transforming tangible assets in society into digital intelligent assets for

right confirmation, authorization and real-time monitoring, blockchain can also be applied to the management of intangible assets in society, such as intellectual property protection, domain name management, points management and other fields.

Blockchain has brought about the technical means of efficiency improvement and cost reduction, providing new ideas for economic and social development and governance. Around the blockchain system, it can create rich products and services, and people can carry out large-scale collaboration without geographical restrictions, such as shopping, social networking, chain travel, entertainment, sports, public welfare, etc., without mutual trust. Therefore, a new economic era is presented to the public.

The outlook for the blockchain economy is spectacular, with an optimistic forecast that 10% of global GDP will be stored by 2025. Now, the blockchain economy is on the eve of the explosion. The financial industry is ahead of the exploration, while applications in other industries are unfolding rapidly.

Based on this, the silicon valley block chain digital institute built the TFX block chain application platform, based on the block chain decentralization, improve credibility, the user data on the block chain, establish a fair, just, open operation environment, for block chain technology in the field of landing and digital currency token economic incentive model of landing solid foundation.



Chapter II: Overview of the TFX blockchain Application Platform

2.1 The Silicon Valley Blockchain Digital Research Institute

The TFX blockchain application platform was initiated and led by the Silicon Valley Blockchain Digital Research Institute.

Silicon Valley Blockchain Digital Research Institute is committed to building digital financial infrastructure and services based on blockchain technology, focusing on independent core technology research and development, industry application and governance model research of blockchain; using underlying technology accumulation combined with actual needs to Blockchain technology empowers the physical industry and customizes one-stop solutions to maximize the value of industrial empowerment.

The Institute also provides blockchain education and training certification, tools and resources for blockchain practitioners and developers, making the Institute's academic research results at the forefront of blockchain research. At the same time, it deeply explores and invests in high-quality ecological partners, promotes the transformation of technological achievements, and promotes the application of blockchain technology in the real economy; establishes a highland for blockchain technology application, so that blockchain technology can reach the general public.

With the vision of "building a one-stop platform for blockchain + industrial services", the Silicon Valley Blockchain Digital Research Institute promotes blockchain technology to empower the real economy, promotes the healthy and orderly development of the blockchain industry, and leads the blockchain industry The industrial upgrading of blockchain technology is applied to various industries. For example, five professional services such as consulting, research, training, technology, and incubation are implemented to create a "blockchain innovation workshop", and the four business sectors create a one-stop system of blockchain + industrial services. At present, the

business systems involved in the Silicon Valley Blockchain Digital Research Institute include:

- **Distributed Finance:** The Silicon Valley Blockchain Digital Research Institute is one of the earliest institutions to study the application of blockchain technology in the financial field, and it is far ahead in the field of distributed finance. Committed to allowing the general public to have the opportunity to enjoy the financial value contained in their financial assets, financial business users also have the opportunity to enjoy services at a lower cost, the operating efficiency of the entire financial system is greatly improved, and the cost is greatly reduced.
- **Digital transaction:** The digital currency business system participated or independently developed by the Silicon Valley Blockchain Digital Research Institute has served more than 200,000 users in more than 80 countries around the world. Relying on the relevant digital currency exchanges under the Silicon Valley Blockchain Digital Research Institute, it provides digital currency storage and trading for global users. The digital currency storage and exchange of related projects under the Silicon Valley Blockchain Digital Research Institute can realize unified management of multi-blockchain assets, one-stop management, decentralized services, multiple security guarantees, and multi-language support functions.
- **Cross-border payment:** The Silicon Valley Blockchain Digital Research Institute has been continuously investing, supporting and incubating related projects in the field of cross-border payment. In cooperation with IDG Capital, a number of payment-related projects have been successfully implemented. The Silicon Valley Blockchain Digital Research Institute continues to promote the borderless circulation of value, and is committed to making cross-border payments more efficient, convenient and secure.
- **Application of digital asset technology:** The US Silicon Valley Blockchain Digital Research Institute is committed to promoting the creation of a third blockchain ecosystem other than Bitcoin and Ethereum, and expanding the application and technical boundaries of blockchain technology to enable Ordinary Internet users can feel the value of blockchain. Participating projects include: Qtum, Cosmos, Coindesk, Cryptovest, etc.

2.2 Introduction to the TFX blockchain Application Platform

Under the leadership of Silicon Valley Blockchain Digital Research Institute, TFX blockchain application platform is building the world's leading blockchain infrastructure and application ecosystem, committed to becoming a membership ecosystem, including Tesco, social networking, chain travel, entertainment, fun step, public welfare, etc.

The TFX blockchain application platform fully absorbs the advantages of the existing blockchain 1.0, blockchain 2.0 and blockchain 3.0 projects, solves their prominent problems and technical defects, and builds a more prosperous application ecology. Under the condition of decentralization and trustworthiness, TFX blockchain application platform will solve various pain points of P2E and entertainment consumption scenarios in the industry, such as the application scenario is not rich enough, multi-point interaction in entertainment, fair wealth effect is not significant enough, the return on entertainment investment is not ideal, etc.

In terms of technology, TFX blockchain application platform takes Binance Intelligent Chain (BSC) as the bottom of the public chain, based on BSC tokens and its own DAPP, chain game, and upward compatible with ETH contracts. As the number of projects increases, we will launch a consensus mechanism with node vote + half amount of proof, to become a fast, safe, scalable ETH parallel chain, while compatible with ETH ecology and BSC ecology.

With the support of the underlying technology of blockchain, TFX blockchain application platform through the innovation of TFX token economic model and business model, comprehensive use of multiple sets of token combinations, using powder absorption, cross-point, communication, destruction, value-added and other ways to enhance the sense of experience, jointly create value, fair and reasonable distribution, and win-win cooperation.

On March 15, the silicon valley block chain digital institute announced that will be based on the BSC public chain release TFX aggregation platform in the Chinese market, based on public chain contract, online mall, quick payment, universe

ecosystem, build a perfect one-stop ecological service, adhere to the marketization, transparency, internationalization principle, promote the digital economy market reform and development, relying on the existing big data analysis, traction industry innovation digital security system, the people, people, later will also according to community organizations vote online more ecological application, for the platform to import more users.

In the existing ecological infrastructure of TFX, users can meet their various needs on the chain through various basic services, such as: currency deposit and interest, mining, pledge, trading, payment, mall, metauniverse games, social networking and so on. Take TFX currency deposit interest generation as an example. At present, users can easily choose TFX currency deposit interest generation scheme of different cycles, so as to improve the efficiency of capital utilization. In order to motivate early users in the early stage of its launch, TFX will launch a rich limited short-term experience version of currency saving interest interest drop scheme to attract users.

We believe that an efficient and trusted business ecological civilization based on the ability of the TFX blockchain application platform and continuous iterative technology ecological evolution will be imminent, but the establishment of this trusted ecological civilization, especially in the existing market, is also a huge and arduous task. So, we welcome developers, community volunteers, business partners, investors, regulators and other partners to contribute to this great cause. At the same time, the TFX blockchain application platform also hopes to bring trust to all people through the joint efforts of ecological partners, so that trust can empower the new blockchain reform and benefit mankind.



2.3 Business value logic of the platform

The business value logic of the TFX blockchain application platform is based on the underlying technical advantages and the breadth of application scenarios. Under the leadership of the research institute, it will be supported by a global business alliance with common access to the global alliance community and a high degree of openness and autonomy. The stages of dataization, data assetization, and asset sharing involved in the development of the TFX blockchain application platform require secure and efficient basic functions as support. To this end, the basic functional modules of the TFX blockchain application platform will provide functional support including digital asset registration, blockchain wallet and data traceability query.

The TFX blockchain application platform is based on the idea of digital economy + business integration. It will integrate data from major subjects in major industries and fields to jointly create a digital economy traffic highland. By building a shared network trusted by machines, data access and encryption can be solved. Issues such as transmission, sharing, trusted transactions, storage, etc., realize the safe chaining of commercial data and assets around the world, promote more commercial individuals to join the alliance, carry out data fusion, maximize data value, and jointly create a borderless data circulation and open value. A digital economic alliance for sharing and collaborative innovation of commercial industries. In this process, the TFX blockchain application platform will go through the development process from dataization of everything, to data assetization, and then to asset sharing.

- Dataization of all things: Through the distributed data storage of the blockchain, the global individuals, enterprises and institutions can be combined to realize the storage of data and assets on the chain, and create a massive database;
- Data assetization: Through encrypted storage and peer-to-peer transactions, data rights and interests are privatized and use publicized, and digital assets can be freely circulated in the form of TFX tokens;
- Asset sharing: Build a secure and credible digital economic alliance, realize

optimal allocation of resources within the alliance, reduce resource integration costs, improve efficiency, stimulate social productivity, and jointly build a digital economic value ecosystem.

Therefore, the mission and goals of the TFX blockchain application platform are as follows:

- Vision and mission: Committed to building a complete digital economic value ecology for global businesses and users in the blockchain era, and hope that this ecology can provide protection for users' free will and personal value, especially the value of time. And realize the intercommunication between independent digital economic ecology, build bridges between each continent, let human beings understand the new world of digital economy and business built by blockchain from a new dimension.
- Final goal: Under the support of BSC's underlying technology, the TFX blockchain application platform will build a digital economic alliance with borderless data circulation, value open sharing, and industrial collaborative innovation. Utilize cutting-edge technologies such as blockchain, big data, Internet of Things, AI, etc. to realize the safe chaining of global industrial data and assets, promote industrial data integration, connect physical value through massive data, create a global value Internet, and realize business and capital flows. , information flow, logistics, and user flow "five streams" are integrated, so that each subject in the alliance can create greater value and jointly build an open sharing, collaborative innovation, and continuous circulation of the digital economic alliance ecology.

2.4 Platform commercial technology pursuit

As the aggregation platform for multiple applications, TFX block chain application platform for entity business (such as e-purchase, social, chain, entertainment, interesting step, public welfare, etc.) development chain underlying API, application scenarios, realize the superposition of digital assets, to solve the problem of commercial use, build a set of bridge of the world assets application platform.

With the support of BSC technology, TFX blockchain application platform has realized a new blockchain architecture, optimal consensus mechanism, adopts distributed computing design idea, independent research and development of distributed storage system, solves the IO performance bottleneck problem of blockchain in storage, and can save a lot of storage costs for users. From the new design and development of the lowest level of the operating system, the performance expansion of commercial level distributed blockchain system. The TFX blockchain application platform provides a high-performance, secure, stable and reliable blockchain infrastructure for business-level application scenarios. Therefore, the technical pursuit of the TFX blockchain application platform includes the following aspects:

1) Increase the speed

Through the optimization of key links such as signature algorithm, ledger structure, data operation, serialization, consensus mechanism, and message diffusion, the TFX blockchain application platform will achieve rapid verification in seconds. Satisfy the user experience of most application scenarios.

2) Increase data storage

The double-entry accounting mode of the blockchain has accumulated a large amount of data in the continuous use of the system, resulting in a decrease in the running speed. The TFX blockchain application platform will realize the mechanism of separate storage and sub-table storage to realize the mass storage of data.

3) High throughput

The essence of blockchain is a distributed shared accounting technology, and its distributed characteristics are mainly reflected in distributed consistency rather than distributed concurrent processing. In order to ensure data consistency and prevent Byzantine generals problem, some specific links can only be executed serially, but not in parallel. Through long-term testing and optimization practices, the processing performance of the TFX blockchain application platform will further greatly improve the transaction throughput.

4) Fast synchronization of node data

The TFX blockchain application platform will develop a mirroring mechanism,

which can regularly mirror the local ledger to realize a convenient rollback mechanism. Under a unified consensus, mirror tags can be specified for rollback; at the same time, the cycle for newly added nodes to join and operate will be shortened. , you only need to synchronize the latest mirror and a small number of recent transaction sets, you can integrate into the network and participate in consensus verification.

5) Increase scalability

The blockchain structure of the TFX blockchain application platform will meet the needs of different business fields and improve the scalability and maintenance efficiency of the system. It can be used to mark assets and asset transfers, provide non-tamperable multi-dimensional event records, and can also be used for traceability to track the circulation process of items.

6) Permission control strategy

The TFX blockchain application platform will provide two types of permission control strategies for data information writing and reading. Data information write permission, set up multiple users under the same account, and set corresponding permissions for different operations to meet the usage scenarios of multi-party signature control. Data information read permission, the user can grant and revoke the data operation permission for a single user or user group, and the user group can be flexibly configured by the user. The data includes user account information, transaction information, etc. The granularity can be refined to various attribute fields of transactions or accounts.



2.5 Basic supporting functions of ecological application

To meet the future huge volume of system performance challenges, TFX blockchain application platform will use side chain collaborative technology, the core function of all kinds of business placed in dedicated side chain, keep the main chain as basic data, smart contracts and basic Token transactions, the complex application processing distribution to each side chain, so as to improve the overall performance of the system. At the same time, the TFX blockchain application platform will adopt an appropriate cross-chain collaboration mechanism to effectively ensure the effective and reliable transmission of consensus and value between the internal parallel chains and other public chains.

To achieve the multiple commercial goals of the platform, the TFX blockchain application platform will provide the following basic functional support:

1) Asset registration function

In the TFX blockchain application platform asset registration system, the asset registration process is usually completed by the gateway or gateway agent. All gateway-registered assets or agent-registered assets need to gain the trust of the asset owner, and only trusted parties can trade the same asset. The registered assets are mainly divided into:

- **Currency-type assets:** Currency-type assets are mainly used for the gateway to connect with other digital currencies and digital asset platforms. There is no limit to currency-type assets. As many actual currency assets are owned by the gateway, as many asset symbols can be registered.
- **Physical assets:** mainly refers to the digitization of assets. Such assets are generally registered by enterprises or institutions and sold by gateways. Such assets generally have a certain amount. After the registration is completed, the asset registration party will be restricted from issuing additional assets by committing suicide through the operating authority threshold.

2) TFX wallet function

The TFX wallet adopts the SPV method, that is, the wallet is accessed through the Web. The wallet adopts SSL protocol and supports Symantec CA certificate. At the same time, the wallet can support cold wallet and hot wallet. The TFX wallet contains two types of assets: native assets and registered assets, which are similar in nature to RMB and various cards in real-life wallets. Native assets can be used without any trust, and assets registered by the gateway must trust the corresponding assets in order to exchange value.

The TFX blockchain application platform opens APIs and documents to third parties, and features include:

- Provide multi-system computer client, Web, mobile version graphical wallet program;
- Support multiple accounts;
- Support all application-independent assets on the TFX blockchain application platform, and support a variety of on-chain assets;
- Has basic functions such as transfer, collection, import and export;
- Easy-to-use API and documentation for application layer development;
- Provides a password-protected wallet's private key;
- Transaction history query and account management functions;
- Provide text address and QR code address, copy and paste quickly or everywhere.

In the later stage, it will also plan the market function, query the global digital trading market and related information in real time, and can also be used as a decentralized exchange to realize currency transactions.

3) Blockchain browser

Blockchain is a highly technical distributed ledger technology. In order to meet the needs of ordinary users to understand the ledger situation, the TFX blockchain

application platform will provide a blockchain browser based on BSC to provide retrieval and use of various blockchain information. , which is convenient for ordinary users to check the amount of assets displayed by any application based on the TFX blockchain application platform.

In order to ensure the validity of the ledger, the blockchain browser of the TFX blockchain application platform supports linking different blockchain nodes to query the ledger, and can observe the generation of each block and each transaction in real time. When entering the corresponding account, Various asset balances and all transaction records of the account can be inquired.

Key features include:

- Information such as total transaction volume, total transaction volume and total handling fee;
- Provide a display of block information, including block and transaction summaries and details;
- Provide query function based on block height, block hash, transaction hash, and address;
- Supports quick access to new currencies.

4) API and SDK

The TFX blockchain application platform will provide a complete set of APIs and SDKs for calling in scenarios such as identity creation, token creation, smart contracts, cross-chain interaction, trusted data, and trusted storage. The SDK can support mainstream programming development languages, such as Golang, C++, js, Python and other mainstream development programming languages.

Chapter III: Platform application ecological module

As mentioned above, TFX blockchain application platform uses blockchain technology to create a membership system of panoramic application ecological platform, including shopping, social networking, chain travel, entertainment, qustep, public welfare, etc., which is also the platform application ecological module.

3.1 TFX Shopping Shopping Mall

TFX shopping mall will use blockchain technology to effectively solve the pain points of the industry, become a model in the application of e-commerce + blockchain technology, and effectively leverage the trillion-dollar market.

TFX Mall utilizes the consensus mechanism, smart contracts, openness, transparency and non-tampering features of blockchain, so that every registered user can truly become the owner of the mall. In the process of consumption, a social consumption network that creates a win-win situation is formed. At the same time, the TFX shopping mall directly connects suppliers and consumers to establish an ecological chain between encrypted assets and the real economy. It will expand the application scenarios of block-connected technology through the consumption of digital assets, promote the pace of enterprise upgrading and transformation in the digital economy era, and lead the new e-commerce trend of OSO (On line Share Off line) in the value Internet era.

The TFX shopping mall based on BSC core technology will be fully utilized in supply chain, e-commerce finance, logistics system, IoT ecology and consumer entertainment. Basic functions such as payment, consumption, digital currency, product anti-counterfeiting, and product ownership confirmation are all at the leading level. That is, the TFX shopping mall can realize the trust sharing among platform product brand owners, channel dealers, retailers, consumers, regulatory authorities, and third-party testing agencies, and comprehensively improve brand,

efficiency, experience, supervision and overall supply chain revenue. Integrate and write information on the raw material process, production process, circulation process, and marketing process of products and commodities into the blockchain to realize the whole process of authentic traceability down to one item and one code.

TFX mall will build a new future for chain merchants:

- Payment system, which will effectively reduce payment costs: The decentralized features of TFX Mall will subvert the existing mall model. As an intermediary between the buyer and the seller, the third-party payment platform will temporarily retain the money and charge a service fee (about 2-3%) for each transaction to establish a seller's reputation evaluation system. In the new Internet financial system based on the TFX shopping mall, the buyer and the seller can directly trade, and the transaction is based on the principle of cryptography rather than trust, so that any two parties who reach an agreement can directly pay for the transaction without the participation of a third party, saving Buyer and seller fees.

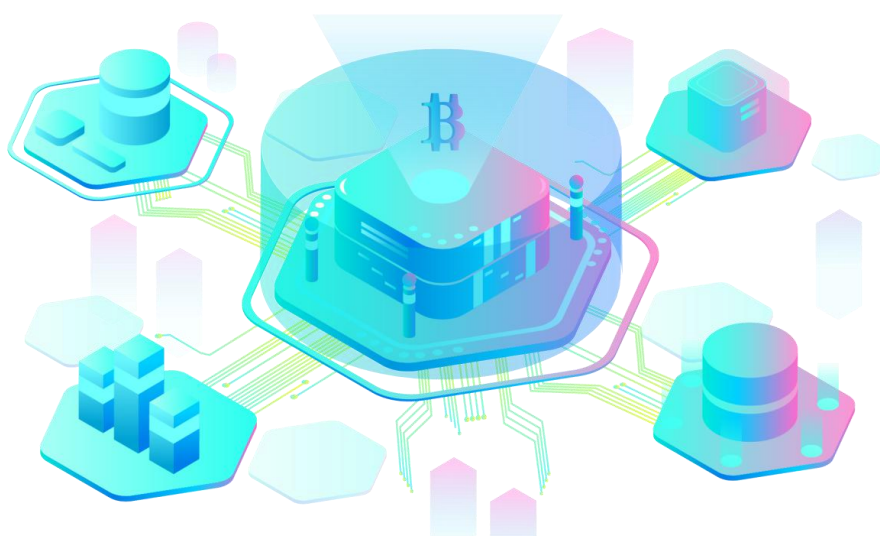
- Create a complete blockchain supply chain system: TFX Mall will be a complex structure composed of logistics, information flow, and capital flow, and connect suppliers, manufacturers, distributors, and users in the industry together . Based on blockchain technology, TFX Mall can be used as a large-scale collaborative tool to adapt to supply chain management. In the supply chain, many types of data can be transmitted through the blockchain, including insurance, invoices, consignments and shipping, and bills of lading.

- Effective data security based on blockchain technology: In the e-commerce industry, consumers' personal data and payment data are stored in a few centralized databases after they are handed over to e-commerce companies. This makes these centralized databases easy targets for malicious attacks, and the risk of data leakage is high. Therefore, by switching to the decentralized TFX shopping mall system, there is no need to store the personal data and payment data of tens of millions of users, allowing consumers to store and control their own data in this decentralized system, thereby Eliminate the risk of potential data breaches.

- Drive transaction transparency and build a trustworthy future for the mall: The opaque transaction process is the biggest problem facing the mall platform. TFX can improve the transparency of the transaction, thereby promoting trust. Every transaction is recorded in a shared ledger and cannot be modified by anyone.

Shared distributed ledgers provide security, transparency, and traceability. Therefore, the TFX shopping mall system will effectively drive the transparency of each process of the mall transaction and establish an era of trust in the mall.

In the future, under the support of live broadcast e-commerce, social e-commerce and other scenarios, TFX mall can also create diverse and interesting interactive travel games, etc., increase the display of auction products, and enhance the fun and experience of participation.



3.2 Encryption social ecological applications

The encrypted social application on the TFX blockchain application platform is not only a tool for project drainage, but also a key entry for users to experience new types of social networking (such as metaverse social networking). Due to the information leakage and other security risks of current instant chat software and circumvention software, people have seen a huge market demand. TFX blockchain application platform solves the problem of user privacy and security through blockchain technology. Blockchain technology uses distributed storage to ensure the security of data on its network and cannot be tampered with, and encryption technology to ensure that data cannot be read by third parties. Blockchain technology and anonymous chat tools are naturally adapted. Therefore, developing instant messaging tools and penetrating firewalls based on blockchain technology

is the best choice. At the same time, immersive interaction also brings a new experience to social interaction.

The anonymous social network established by the TFX blockchain application platform allows users to run nodes on their own devices to access network nodes and real-time interconnection between nodes. User information is stored in encrypted form on network nodes to form a distributed cloud. According to blockchain technology, data is stored in excess, and only those who have the secret key can view the data. The network will provide compensation to users who contribute storage and computing power. In addition, rewards are provided to users who create and maintain content. In this way, the TFX blockchain application platform has established a completely different operation mode from traditional social networks: returning the control of user data and information to individuals, and providing incentives for contributing users. Such a model - to ensure the security of personal data, and second, to stimulate everyone to make more contributions through the system mechanism. At this time, the network is no longer a central hub, but a pure platform, a platform where users can interact point-to-point.

In addition, the metaverse social networking of the TFX blockchain application platform will be a highlight. Each user has a virtual identity in the metaverse of the TFX blockchain application platform, and they can publish content. The TFX blockchain application platform will recommend users and information through AI algorithms based on users' social portraits and interest graphs. Based on this, each user can establish a new social relationship in the metaverse. This kind of social interaction is no longer "nearby" to a physical location, no longer aimed at "adding a friend", and no longer a mapping of offline social relationships. This higher-dimensional virtual social network is what the TFX blockchain application platform calls "social virtual reality".

The TFX blockchain application platform Metaverse Social will break through the limitations of time and space and expand the scope of our friends. In the TFX blockchain application platform, borrowing holographic virtual image technology can achieve a huge restoration of the real scene, while borrowing some Auxiliary equipment can greatly improve the user experience and increase user stickiness. Compared with virtual social networking, the TFX blockchain application platform Metaverse has more obvious advantages in user interaction, and it is more like a combination of online social networking and offline social networking.

The social ecology of the TFX blockchain application platform has built a complete ecology, which mainly carries three layers of innovative value:

- Social layer: Social to Earn, earn as you follow. Users of the TFX blockchain application platform first establish social connections through investment strategy subscriptions, which are more sustainable based on on-chain reputation.

- Middle Tier: Play to Earn, earn as you play. The creator economy will stimulate a large amount of content, which will inevitably generate information noise. Various investment strategies are mixed. The middle layer of the TFX blockchain application platform is designed as a game experience for screening investment strategies. The purpose is to filter high-quality investment strategies and investments with cognitive ability. Such professional investors are called "navigators" in the metaverse of the TFX blockchain application platform.

- Core layer: Invest to Earn, earn while investing. Whether it is earning while following or investing, for virtual reality explorers, Invest to Earn is the most efficient way, and this is also the most important result of investment strategies. In the TFX blockchain application platform Metaverse At the core layer, creators will tokenize the content of their investment strategies, not only to attract subscribers to learn the content, but also to allow followers to participate in investment, thereby providing high-value liquidity to the market, among which professional investors "navigators" cannot lack.

The primary incentive for the TFX blockchain application platform Metaverse Social is to empower creators to continuously generate high-value models. The virtual reality ecology also requires the intermediate inviter to be responsible for mining, screening, and matching, so as to attract more participants to subscribe to the high-quality user participation strategy, and the inviter will also receive corresponding incentives.

The encrypted social application of the TFX blockchain application platform, the Lianxin APP, will be the main carrier of social functions in the platform. Lianxin is similar to WeChat application. With the support of blockchain technology, in addition to chatting, red envelopes can also be sent - you can directly use platform coins to send red envelopes, and later open up the public chain: you can send U red envelopes, ETH red envelopes, etc. in the APP . In addition, functions such as emoji, group chat, circle of friends, and built-in wallet are all available.

3.3 Chain game ecological application

The TFX blockchain application platform will develop and launch a variety of interesting chain games on the basis of blockchain, Web3.0 and other technologies, and is committed to forming a subversion of traditional games, chain game models and incentive mechanisms. TFX blockchain application platform chain game application is completely based on the current blockchain technology, with rich game scenes, game props, trading market, investment market and in-game ecosystem, and has its own in-game ecosystem. Cryptocurrencies, have a robust monetary economic system. After the TFX blockchain application platform game is released, it will no longer be controlled by the development team, but will achieve decentralized development under the leadership of the DAO autonomous community organization.

The various chain games of the TFX blockchain application platform will start from the following aspects in the process of decentralization:

- Rich and interesting value circulation system, a completely fair and open high-value game NFT asset synthesis, trading and investment market.
- Have an open and transparent operating environment, with fairness and justice as the core value, allowing all players to participate in the game at any time. Players have the same status and power, which does not create inequality between players. As we all know, in some existing games, the algorithms are not open, transparent, or even fair. If players are in an unequal gaming environment, it will eventually lead to the loss of users.
- The high user stickiness and the continuous improvement of the trading market functions will help to promote the ecological prosperity of the entire TFX blockchain application platform. Encourage players to participate and earn rewards, and recommend games to new players.
- A scientific and stable economic system increases players' enthusiasm. Every game player who enters the ecosystem of the TFX blockchain application platform will not only be attracted by this game, but will also receive unexpected rewards in the process of going deeper into the game.
- Play to earn (P2E), earning while playing is one of the biggest highlights of platform chain games. Blockchain technology gives players ownership of in-game

assets and allows them to increase their value by actively playing games. A key component of the P2E model. Most of the revenue in the chain games of the TFX blockchain application platform is no longer attributable to the platform, but to excellent players. By participating in the in-game economy, players are creating value for other players and developers. In turn, they are rewarded with in-game assets. These digital assets can be any encrypted assets whose rights are confirmed on the blockchain.

Based on the immersive experience of 3D role-playing, NFT and a powerful consumption mechanism, TFX will create commercial-grade blockchain game products, game industry solutions and a virtual world-based chain game ecosystem. On the basis of NFT attributes, the TFX blockchain application platform combines NFT and game incentives to provide users with a new game experience, which is equivalent to providing game users with a free income channel.

At the same time, the TFX blockchain application platform directly breaks the existing circle and uses game NFT as the medium to become a decentralized value circulation space focusing on the game NFT sector. In addition, the NFTs generated by the TFX blockchain application platform can be used to trade encrypted game collectibles, and can also provide creators, gamers and item collectors with a multi-platform environment to interact and share exclusive game content. AR and VR environments that interact with metaverse game content, etc.

The TFX blockchain application platform has quickly gathered a large number of top international blockchain talents, aiming to use the online game industry as an opportunity to drive industry changes and create the world's top chain game ecological application. In addition, with the support of BSC's underlying technology, the TFX blockchain application platform can provide developers on Dapp with an easy-to-use and complete blockchain game infrastructure, including a visual development kit and on-chain ecological environment. Focusing on the implementation of blockchain technology, you can directly and graphically complete the development of blockchain games with low thresholds, fast and efficient.

3.4 Entertainment ecological application

区块链对传统行业的颠覆已见端倪,在娱乐行业,众多研发公司亦在积极迎接这种变化,将区块链技术与娱乐深度整合,力图在在线娱乐产业的风口期,以区块链技术霸占至高点。娱乐行业是个高产行业,尤其是粉丝经济爆发的今天,随着互联网和移动互联网的基础设施和新生代用户的成熟,娱乐产业和粉丝经济有了爆炸式的增长。但娱乐行业也正在面临破坏,如不透明、传统渠道话语权过大、中间人过多、IP 内容维权困难、版权保护机制缺陷等。区块链技术在去中心化、点对点传播的功能下,为用户和项目方带来了平衡。

1) 娱乐资讯、广告服务

TFX 区块链应用平台将汇聚全球娱乐资讯、广告服务以及区块链信息等,专注聚合全球有深度的行业观点和有价值的娱乐行业信息广告服务,为用户提供具备全球视野。搭建完备的娱乐内容体系,不断扩大在娱乐内容生产、内容运营和内容分发上的优势,建立包括资讯、热点专题、广告投放、数据研究、政策解读、新闻快讯、商业报道等专栏内容。为用户提供更加专业全面的信息服务。

TFX 区块链应用平台娱乐资讯广告社区将给大量优质项目提供半官方性质的讨论专区。在这里,用户可以参与各类沙盘模拟,浏览国内外动态,讨论分析,求助或回答问题,共建一个乐于分享、多元主体参与的去中心化 TFX 区块链应用平台社区。该社区技术基因和气质浓厚,专注于交流。用户可查看最新的娱乐快讯、文档,学习区知识;同时能对接各娱乐项目入驻发展各自的区块链生态,对接线下线上活动、培训、招聘等。

TFX 区块链应用平台娱乐资讯广告社区将成为一个区块链垂直领域的孵化器,为用区块链技术来解决现实问题并创造颠覆性解决方案的团队或项目服务。以广告服务为切入点,为入驻者提供场地支持、咨询服务、导师聘请、投资人及资源对接等服务,进一步打通社区运营、区块链项目孵化与投资等领域,打造一个以技术驱动为核心的娱乐新生态,为娱乐行业持续赋能。

2) 娱乐 Dapp 应用市场

DAPP 是 Decentralized Application 的缩写,中文叫分布式应用/去中心化应用。通常来说,不同的 DAPP 会采用不同的底层区块链开发平台和共识机制,或者自行发布代币。DAPP 不同的底层区块链开发平台就好比手机的 IOS 系统和 Android 系统,是各 DAPP

的底层生态环境。DAPP 就是底层区块链平台生态上衍生的各种分布式应用，也是区块链世界中的基础服务提供方。DAPP 于区块链，就好比 APP 之于 IOS 和 Android。

TFX 区块链应用平台将打造娱乐产业 Dapp 应用市场，作为一个全球的、点对点的分布式应用分发系统，目标是为了推动区块链应用快速的发展落地，将所有区块链应用收集在一起。基于分布式储存，对等网络节点传输，可以让 DAPP 的下载速度更快、更安全、更健壮、更持久。TFX 区块链应用平台 Dapp 应用市场首先将完成基于 BSC 公有链平台侧链的开发，完成应用市场 1.0 应用测试。TFX 区块链应用平台 Dapp 应用市场实现基于内容查找的娱乐 DAPP 精准索引系统，基于对等网络传输技术的分布式应用分发系统，基于数据的赏金系统，基于流量的开采系统，基于下载的回购销毁系统等建设。

TFX 区块链应用平台将打造基于区块链技术的娱乐新生态，将传统在线娱乐运营中的黑箱操作、数值算法不透明、用户地位不对等问题完善的解决。让每一个用户都可以享受到一个公开、公正、真实、透明、有趣的全新的原生态娱乐体验。前期以 TFX 代币来调动社会大众积极性，并参与建设、追踪、治理、监管等，搭建一个完整的安全的娱乐生态新体系，后期不断丰富区块链技术娱乐应用场景，以此来实现和解决更多传统娱乐生态的方案。



3.5 趣步应用

为了更好的融入日常场景中，TFX 区块链应用平台打造趣步应用，这是一个基于区块链+运动大数据+收益的应用程序，鼓舞全民关注本身健康，参与获得收益。

TFX 趣步基于智能穿戴步行健康挖矿的协议，通过趣步 APP 和区块链权益资产打造的一种全新的“运动+健康+共享+数字经济+创造激励”商业模式，以数字货币 TEX 为润滑剂实现用户和用户、用户和平台之间的价值转换，打通健康行业数据孤岛，使用户数据回归自我，实现经济价值转换。

TFX 区块链应用平台结合步行这种运动元素，通过与智能硬件结合，以“趣步，运动挖矿”的新型挖矿模式，驱动用户在健康运动的同时，获得更多收益。TFX 趣步中，每天的步数计入奖励，用户可以靠自己运动获得收益，或者参与别人的组队运动，分享自己的运动心得获得收益。

TFX 趣步的价值闭环建设如下：

- 建立用户身份认证、生物信息等综合信息数据库的前提是用户的身份信息能够得到认证上链，从而通过授权查询用户综合信息。通过运动训练，对用户建立生命体征数据，体检报告等生物健康数据上链。
- TFX 趣步获取的 token 可在合作健身场馆享受各种优惠，可使用 Token 进行等值交换，同时在运动中又能获取 Token，激励用户持续运动。通过 TFX 趣步入口打造生态圈，接入与运动健康相关的公司，用户可以使用币进行消费。在 TFX 趣步中通过运动创造 Token，同时在运动中消耗 Token，形成闭环环节。
- 医疗机构方面，用户可以使用在 TFX 趣步产生的 token 进行消费和享受各种优惠，用户将自己的健康生命体征数据、医疗数据上传到医疗机构上后，将获得代币奖励，同时在医疗机构中实现个人体征数字化。用户产生的 token 可进行消费转换，可以到医疗机构购买医疗健康产品，获得会员权益以及请专业级专家诊断机会等等。
- 体育机械方面，用户可以通过在 TFX 趣步产生的 token 消费转换购买机械器材，用户的运动健身数据将会自动上传到生态系统中，生态系统会根据用户的健康档案推荐健身方案，体育机械机构上将接入 DAPP 进入生态，以更快的速度促进用户运动健身发展。
- 记录所有运动健身行为，让参与整个运动生态服务的各方都能根据自己的需求获得高价值的数据，更好的发展和提供细致的业务。TFX 趣步使用场景延伸，后期将跟健身房、体育机械商、医疗机构进行合作，使用 token 即可在这些场景中消费，让用户的运动数据具有转换价值，鼓励用户多运动，产生数据，驱动整个 TFX 趣步健康生态链搭建。

最终，TFX 趣步将把用户的运动数据转换为价值，鼓励更多用户加入运动行列，产生更多的数据，驱动整个生态健康生态链搭建，通过开放 DAPP API 接口，让更多运动、健康相关第三方机构能够接入生态健康生态链对用户提供服务，拓展生态 TFX 代币使用场景，打造围绕用户步行健康数据形成的生态链整体闭环。

3.6 公益生态建设

在美国硅谷区块链数字研究院的支持下，我们将发起 TFX 公益慈善基金，作为以区块链技术驱动促进社会公益事业的基金，旨在利用区块链技术提供的透明化、高效率和问责制来重新定义慈善公益事业，促进全球可持续发展目标的实现。为实现慈善透明化理念，TFX 公益慈善基金将建设结合区块链协议技术的去中心化慈善平台，促进慈善行业中各个参与方的价值最大化。该系统将利用去中心化技术，让传统慈善活动更加高效，降低中间成本，提升透明度，并更好地监控和评估慈善活动对最终受助人的影响力。

不管是对捐赠者还是第三方慈善公益机构、接受募捐者，信任都是从 0 到 1 开始运行建立，而这种信任往往需要一个中心化平台或者中心化代理商来运行背书，信任建立成本是比较大。TFX 公益慈善基金将利用区块链不可篡改的特性，对上链的捐赠者和第三方慈善公益机构、接受募捐者形成不可篡改的慈善公益信用记录，真实、透明记录每一笔消费，建立全球全链不可篡改的慈善公益征信数据池，同时利用智能合约建立信用机制，使用代码而非某个中心化机构动态评估捐赠者、第三方慈善公益机构、接受募捐者的慈善公益信用情况，形成动态的信用值。

在 TFX 公益慈善中，只需要把相关的条件和要求设定后，智能合约就可以自动执行。比如，平台收到一个贫困儿童求助的请求，系统自动生成一个智能合约，智能合约确认真实性后给出救助方案。款项的金额，款项的使用步骤，和将会达到的效果等内容都会在合约中体现。整个合约从收款到执行都可以自动的操作，并将执行情况自动给出反馈。整个过程不需要人工干预，并受所有参与当事人的监督，通过智能合约这种全自动的模式确保了项目平稳落地。



Chapter IV The Technical System of TFX

4.1 The underlying technical architecture of the platform

With the support of BSC technology, the TFX blockchain application platform has six infrastructure layers: data layer, network layer, consensus layer, incentive layer, contract layer and application layer.

1) Data layer

Based on the highly redundant storage mechanism of the blockchain, blockchain storage has a certain impact on the scalability and performance of the blockchain. The TFX platform framework is designed with a multi-level node system, and different storage strategies are selected according to different node applications (distributed ledger).

2) Network layer

The P2P protocol (P2P Protocol) supports the data transmission and signaling exchange of each node in the blockchain network, and is an important communication guarantee for data distribution or consensus mechanism. The TFX blockchain application platform system design supports a variety of P2P protocols, communication The configuration of the mechanism and the serialization mechanism can be used flexibly according to different scenarios. In terms of communication security, it flexibly supports HTTPS, TLS, WSS (SecureWebsockets) and other protocols, and can expand the authentication integration supporting OAuth when establishing platform application external service interfaces.

3) Consensus layer

With the support of BSC technology, the consensus algorithm of the TFX blockchain application platform has realized the integration of the advantages of various mechanisms and created a new consensus system. Therefore, the TFX blockchain application platform has the characteristics of high performance and high consistency, and is more suitable for weak central upper-layer applications

with frequent mining, payment, and transaction data generation and high real-time accounting requirements.

4) Incentive layer

The TFX blockchain application platform not only has airdrops for genesis consensus rewards, but also a liquidity mining pool for long-term network value maintenance. Because of the unique consensus mechanism of the TFX blockchain application platform, the performance is not affected by the number of nodes, so there is no upper limit on the consensus nodes of the TFX platform, and it happens dynamically, and anyone can join at any time to earn rewards.

5) Contract layer

On the TFX blockchain application platform, complete and controllable process management is performed on the submission, deployment, use, and cancellation of smart contracts, and the rights management mechanism is integrated for comprehensive security management of various mechanisms of smart contract operations.

6) Application layer

The application layer will provide a general transaction protocol, support multi-language integration and function expansion, and support multiple languages such as Java, JavaScript, Python, etc., and is fully suitable for network expansion of the TFX blockchain application platform.

4.2 Applied APP development architecture

TFX platform application APP is developed based on MVVM architecture to increasingly complex demand changes, thus quickly iterating to specify functions without affecting the functions of other modules.

The front-end uses the CoreData relationship data recommended by Apple, and the server-side also uses ORM object relationship mapping to accurately connect with the front-end transmission through Redis and PostgreSQL databases. 3D and AR as the core function of the App, show technology using

apple's official RealityKit technology, combined with the underlying ARKit and SwiftUI with features of excellent front display, allows developers in the image rendering, camera effects, animation, physical effects, under the premise of level, make more such on physical super realistic rendering, bone animation, space audio and rigid physical augmented reality development.

At the application layer, TFX blockchain application platform adopts a top-down design method, focusing on the problems of data standardization and multi-chain communication in applications; secondly, defining a component model of a general blockchain system, realizing loose coupling and plugging of specific functional components, solving the requirements of customized extension; finally, providing a specific virtual reality platform implementation and related tools and development packages for rapid implementation of commercial-level virtual environment applications.

1) Blockchain protocols

TFX blockchain application platform applies APP system protocol as the top-level architecture design, which defines the data format standard of blockchain, including four data standards of ledger status, historical proof, ledger operation set and contract instruction set.

2) Component model

The "Component model" is the framework model of the blockchain logic components, which is the implementation framework of the underlying system protocol of the TFX blockchain application platform. Including the consensus network, ledger, persistence engine, contract engine four components.

3) service model

The "service model" is a specific implementation of the upper-layer blockchain protocol and component model, consisting of gateways, services, node network, SDK, and a set of tool sets.

4.3 Account agreement

The ledger protocol is a standard model defined from the perspective of data, which includes two definitions:

The standard format of ledger data consists of two parts:

- "Ledger status" indicates the current real-time data content;
- "Proof of History" represents the characteristics of the ledger data and the characteristics of the data change history.

The standard format of instructions for reading and writing ledger data consists of two parts:

- "Ledger operation set" defines the standard representation of the type of write operation to the ledger data and the standard format of the parameters;
- "Contract instruction set" defines a standardized contract language instruction format.

The purpose of defining the ledger protocol is that the data on the chain can be exchanged, verified, stored and used in a standardized manner, which can span the blockchain networks implemented by different technologies, regardless of the specific data storage implementation.

1) Ledger status

The word "state" here is a concept in the computer field, and here it represents the state of the blockchain system at a certain time, which is composed of the business data saved by the system and the control attributes of the system operation. The "ledger status" of the underlying system of the TFX blockchain application platform consists of "identity", "KV data", "authority", and "contract code".

- "Identity" is represented by a "Blockchain Address (Address)" and corresponding asymmetric key pair/certificate;

- "KV data" is the representation of ledger data, uniquely identified by the key (Key), and recorded by the value (Value);
- "Contract code" represents the logic of state change, represented by a sequence of contract instructions;
- "Permission" is the access control code of "Identity" to "KV Data" and "Contract Code".

2) Ledger operation set

The "ledger operation set" is to define a common standard for cross-chain interoperability, including the standard code of "type" and the standard format of "parameter". Typical operations include:

- Identity registration
- Status data read and write
- Contract deployment
- Contract invocation
- Permission settings

3) Contract instruction set

The blockchain defines the control and transformation logic of the business state in the form of a contract language. By designing a standardized contract language instruction set, various complex business logic can be expressed in a common way, which is independent of specific programming languages. On the one hand, following the standard contract instruction set, the blockchain system can have good versatility; on the other hand, developers can write smart contracts in different programming languages, lowering the threshold for learning and use, and meeting the requirements of different teams' technology stacks.

4.4 Component model

The "Component model" is a logical functional module design, which is the logical framework to implement the ledger protocol. The standardized interface of the components is defined, so that the blockchain system implementation following the component model has the characteristics of loose coupling and pluggability.

1) Consensus network

At present, typical consensus algorithms mainly include PoW, PoS, PBFT, Raft, Paxos, etc. Through comparison, it is found that these algorithms can abstract the following stages during the running process:

- Transaction proliferation;
- Transaction ordering;
- call the trade execution program;
- Consensus on transaction execution results;
- Submit consensus results.

The differences of various consensus algorithms are reflected in the adoption of different implementation strategies at different stages.

- PoW and PoS algorithms do not use the atomic broadcast protocol during transaction diffusion and sorting, and randomly select the leader node to perform sorting, so transactions may be randomly discarded.

- Raft and Paxos algorithms perform atomic broadcasting and sorting of all transactions, but do not deal with Byzantine errors in the consensus process.

- The PBFT algorithm performs atomic broadcasting and sorting of all transactions, and handles Byzantine errors in the consensus stage, and does not support dynamic adjustment of nodes.

Starting from the characteristics of industry-oriented commercial-level

application scenarios, we select the mechanism algorithm in BSC-like, and optimize it on this basis, providing the characteristics of deterministic transaction execution, Byzantine fault tolerance, and dynamic adjustment of nodes. The consensus network components of the TFX blockchain application platform are designed in accordance with the idea of modularization, and are encapsulated based on the above general stages, and an extensible standard interface is abstracted. In the future, as the number of people participating in the project increases, we will introduce an upgrade of the consensus mechanism in the form of node votes + half proof.

2) Ledger and contract

The ledger state is separated from the contract, and an identity-based access control protocol is used to restrict the contract's access to the state. This design pattern of separating data and logic is a typical anemic model, which can provide stateless logical abstraction for upper-level business logic.

3) Persistent storage

The persistent format of ledger information is defined as more concise KV format data, so that mature NoSQL databases can be used for persistent storage. Based on the current mature massive data storage solutions on NoSQL databases, the blockchain system can support massive transactions.

4) Contract engine

The contract engine consists of two parts, the front end includes the contract high-level language specification and its tool chain, and the back end is a lightweight contract intermediate code execution environment. All operations on the ledger are implemented through the API provided by the ledger component.

4.5 service model

The service model function module of TFX blockchain application platform is divided into four parts: blockchain gateway, blockchain node service, blockchain consensus network, and supporting tools.

1) Blockchain Gateway

The "blockchain gateway" is designed as a lightweight gateway system, usually deployed in the participant's network environment, providing functions including:

- Private key management: provide fully localized private key custody;
- Privacy protection: use end-to-end encryption to achieve privacy protection;
- Protocol conversion: Provides a lightweight HTTP Restful Service and a blockchain node API that adapts to the TCP protocol.

2) Blockchain node service

Application-oriented general functional components provided on the basis of the blockchain basic network, the purpose is to provide the reuse of general functions, including:

- Application-oriented account management;
- Authentication and authorization of accounts;
- Object-oriented ledger data access framework;
- Event notification mechanism;
- Smart contract management.

3) Blockchain consensus network

A network composed of consensus nodes, based on P2P network and consensus algorithm to ensure that transaction data is consistent among nodes.

4) Tools

A set of supporting tools, including SDK, data management, installation and deployment tools, and monitoring services.

4.6 Platform performance

The underlying system of the TFX platform supports dynamic adjustment of network topology, enabling nodes to dynamically join and actively exit. At the same time, users can also choose a non-Byzantine consensus protocol with better performance according to their own needs to improve the operation efficiency of the entire blockchain. In order to cope with diverse business scenarios, meet information security requirements, and improve business throughput, the underlying system of the TFX platform supports a multi-chain architecture. Unrelated businesses run on multiple parallel blockchains, which provides the TFX platform with linear scalability for businesses. For the interoperability between multiple chains, the TFX platform adopts the relay chain mode, and all participating parties submit proposals to the relay chain nodes, and the results are confirmed after consensus.

The TFX blockchain application platform adopts a micro-service processing architecture, supports horizontal scaling, dynamic expansion, and realizes massive transaction processing and data storage. Through testing and analysis, it is found that when the system handles massive transactions, there are performance bottlenecks in the cryptographic module and contract module in the consensus node. In order to alleviate the impact of this problem, the cryptographic module and contract module are split into separate stateless microservices, so that the cryptographic and contract microservices can be scaled horizontally in a targeted manner when dealing with massive transactions.

With the increase of processing data, the performance of K-V database will gradually decrease, and the trend is more and more obvious. In order to solve this problem, the K-V storage module in the consensus node is abstracted as a micro-service, and the API gateway is implemented based on the consistent HASH algorithm to achieve dynamic routing of storage and synchronization of new node data.

- Adopt a flexible data storage structure to support the separation of hot and cold data;
- Support dynamic joining and exit of nodes to achieve high availability of the system and ensure uninterrupted business operation.

4.7 Function of the underlying system

The TFX blockchain application platform adopts a general event-driven model framework. Access to AKKA's Actor model, a higher abstraction of the concurrency model. Use lightweight transaction processing to achieve fine-grained component reuse from the event level.

The method of message queue + cache is adopted to eliminate abnormal situations in business processing in a timely manner, and various monitoring mechanisms are used to respond to abnormal business in a timely manner.

- Support user real-name and authentication;
- Support enterprise data governance;
- Supports an event-driven business collaboration model;
- Support multiple ledgers to manage on-chain data by business dimensions.

1) Ecological security

- Pluggable cryptographic algorithms, which can flexibly formulate corresponding cryptographic systems;
- The platform implements multiple sets of cryptographic algorithms by default, including national cryptographic algorithms and hardware encryption devices.

2) Smart Contract

- Support reusable smart contracts;
- Supports debugging functions for smart contract languages.

3) Application compliance

- Support CA-based account authentication;
- Support access to supervisory nodes;
- Support data filing.

4.8 BSC underlying support

Binance Smart Chain BINANCE SMART CHAIN, referred to as BSC, is a main chain in the dual public chain mechanism of Binance, the world's largest digital currency exchange. BSC can be regarded as a blockchain parallel to the Binance Chain. It mainly serves the DeFi ecosystem of Binance, and it also makes the dual public chain model of Binance more complete.

BSC has certain innovations in the consensus algorithm. The PoSA (Proof of Stake Authority) consensus algorithm it adopts combines the functions of the Delegated Proof of Stake (DPoS) and the Proof of Authority (PoA) mechanism, and is built on a network of 21 verification nodes. , the second-level block time can establish a high-speed infrastructure for the DeFi protocol.

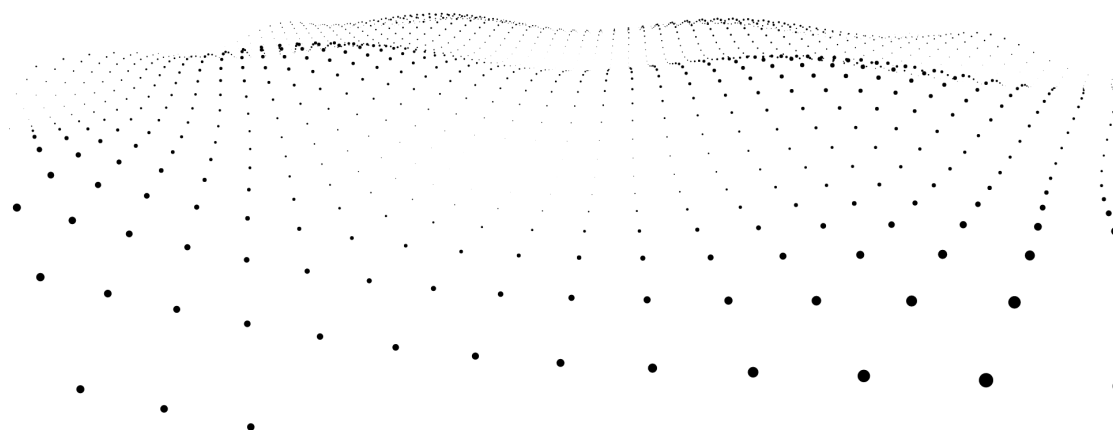
The word "smart" in BSC is reflected in the functions related to smart contracts: BSC supports the function of writing smart contracts, and is compatible with the existing Ethereum Virtual Machine (EVM) and all applications and tools in its ecosystem. , developers can easily migrate and deploy Ethereum DApps, saving development effort. Finally, as a parallel chain that can interact with BC, BSC natively supports cross-chain communication and transactions. Overall, the technical advantages of BSC are more obvious, which are reflected in the following aspects:

- Smart contracts. BSC has the function of writing smart contracts. DApps with different functions are the basic elements of the DeFi ecosystem, and smart contracts represent the underlying rules and operation logic of DApps. At the same time, programmability also greatly increases the scalability of BSC and realizes the diversification of DApp functions. Therefore, smart contracts are the cornerstone of Binance's DeFi ecological "building".

- Compatible with EVM. BSC is compatible with the existing Ethereum Virtual Machine (EVM) and all applications and tools under its ecosystem, which greatly reduces the threshold for developers to develop DApps. Developers can easily migrate and deploy Ethereum DApps, saving development effort. The significance of being compatible with EVM is that it can be compatible with the current hottest Ethereum ecosystem to the greatest extent, attracting developers and overflowing funds on Ethereum.

- Cross-chain function. The significance of cross-chain is to enrich the currency of the DeFi ecosystem and increase liquidity. Up to now, Binance's "Token Canal" has completed BTC, ERC20 on Ethereum (ETH, LINK, USDT, DAI, etc.), XRP, BCH, LTC, ADA, DOT, XTZ, BSC, ONT and other assets Cross-chain communication. This means that these assets can be migrated to the Binance Smart Chain and become the liquidity for DEFI operations.

Based on the above reasons, we chose BSC as the base chain for TFX issuance. BSC will create more conceivable space for the system construction of the TFX blockchain application platform and the compatibility of cross-chain ecology.



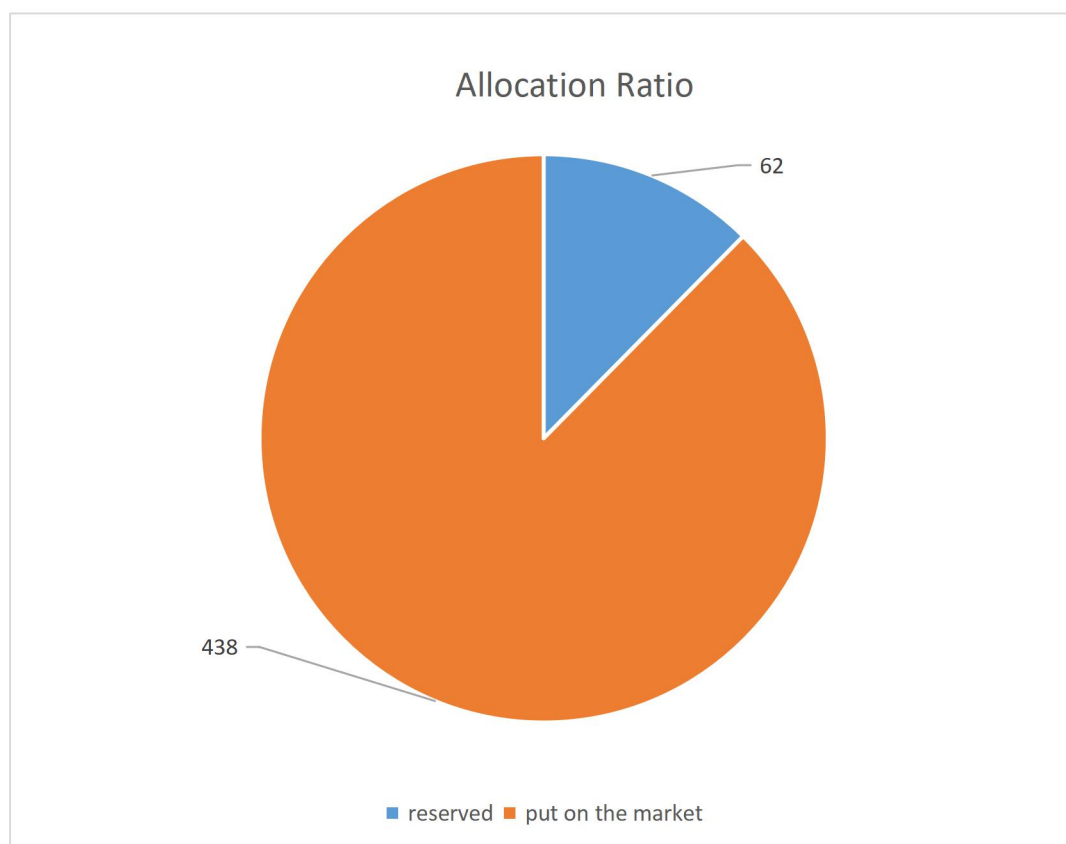
Chapter V Design of TFX Certificate Economic Model

5.1 TFX token economics

The total amount of TFX tokens issued, stages:

It is planned to drive and operate the platform with a constant total of 50 billion platform coins.

Among them, 6.2 billion coins are reserved for the node construction of the public chain, and the remaining 43.8 billion coins are gradually put into the market in 10 years.



The initial parent currency is 600 million, and the currency price is 1.3 yuan (\$2) each. The technical team holds 120 million coins (accounting for 20%); 480 million coins (accounting for 80%) enter the market. Among them, 200 million coins are subscribed by members, and the remaining 280 million coins are used as rewards.

The pledge interest payment (equivalent to POS mining) is 100% in the first year, 90% in the second year, and decreases by 10% every year thereafter until 20% in the ninth year and 20% in the tenth year, and 43.8 billion coins have been distributed.

Game coins, ecological coins, etc. are obtained through various customs clearance and competition methods.

Mining mechanism: The platform currency is released by pledge and interest payment, which is equivalent to POS mining. Game currency is won by way of clearance, competition, etc.

Operational planning: It will take 3 to 5 years from the intervention of the marketing team, to the launch of the internal exchange, to the top exchange, and finally to the public chain to create a variety of application scenarios. It is estimated that the platform's valuation will reach 300 billion in 5 years and 1 trillion in 10 years.

Token application: First of all, use the platform currency (token) to attract fans. Secondly, the agency and introduction of chain games are expected to maintain 200 chain games. Each chain game is driven by three sets of tokens, namely character currency, blind box and income currency, and the conversion and destruction mechanism is set to maintain the income of each chain game. Reasonable value-added of coins and platform coins; finally, in the panoramic ecology including easy shopping, social networking, chain games, entertainment, funbu, public welfare, etc., multiple sets of tokens are used to reflect the value contribution of participants.

5.2 The value of TFX reflects it

TFX tokens will provide a value carrier for the TFX blockchain application platform, drive the realization of virtual and network interconnection, and make network connections more relevant and valuable by combining people, processes, data and things. After the TFX token is launched on major global exchanges, the value and price will increase, and user income will continue to increase. Overall, the value, incentives, governance of TFX tokens and the TFX blockchain application platform have profound logic, reflecting the value characteristics of TFX:

- In terms of value, TFX condenses the carrier of "trust value" and "consensus value";
- In terms of incentives, TFX is an economic reward that motivates the participation of "bookkeepers" in the network;
- From a governance point of view, TFX is an equity certificate for participating in the network;
- From a security point of view, the existence of TFX value incentives improves network security;
- From the point of view of income, TFX is the embodiment of value income in ecological participation mechanisms such as easy-to-buy, social networking, chain games, entertainment, funbu, and public welfare.

In the future, as the value medium in the ecology, TFX has a wider circulation value, which is reflected in the following aspects:

- On the basis of the TFX blockchain application platform, many applications will be derived. Chain games, social networking, shopping malls, lending, entertainment, education, tourism, commerce, real estate, health, etc. all use TFX as the payment method for participation.
- After the TFX token is listed on the exchange, it can be exchanged with all digital currencies, and supports the circulation and payment of various links in the virtual reality ecosystem, such as receipt and payment, transfer, legal currency transaction, currency deposit, currency withdrawal, currency allocation, mortgage,

etc. All circulating transactions use TFX as the medium.

- TFX can achieve settlement with global fiat currencies and exchange the sovereign currencies of countries around the world.

- For users, TFX can be used for various consumptions around the world. At the same time, it can also be used as a basic means of cross-border payment, so as to bring more benefits to itself. When TFX is connected with the global mainstream platforms, gamers can enjoy the wider global entertainment and leisure convenience brought by TFX.

In terms of versatility, the underlying network of the TFX blockchain application platform adapts to more diverse business needs through continuous improvement and business model exploration, and meets data sharing across business chains, which means that the underlying network of the TFX blockchain application platform The recording method of data has enough common and standard, can represent various structured and unstructured information, and can meet the cross-chain requirements required as the business scope expands. This provides more value flow basis for the generality of TFX tokens.

5.3 A governance model for the TFX

Through the development process of the industry, we can see that the rise of new concepts has given greater support to the industry. In addition, the popularity of DeFi also makes DAO, which has been quietly contributing its core values to the industry, be supported by users. The TFX team knows that to promote the industry, it needs a perfect and better realize the value cycle and decentralized governance model, so TFX innovates in the DAO model.

1) The governance form of TFX

Under the leadership of DAO, TFX's community governance organization, TFX DAO, will achieve complete decentralization and a high degree of community consensus. The new decentralized autonomous organization initiated by TFX DAO belongs to the category of dedicated DAO. The community has a strong consensus

and 100% of the community manages it by itself. After the project goes live, the community will vote to develop its own decentralized applications and DAPPs.

The global community building of TFX DAO follows a high degree of decentralization and is carried out through a combination of on-chain and off-chain models. After all the programs of TFX DAO are successfully set, it can start to operate according to the original rules. In the process of operation, it can also continuously maintain and upgrade itself according to the actual situation. Through the continuous self-improvement mechanism, it not only eliminates the trust problem, but also achieves an unprecedented level of collective coordination, thus forming the technical foundation of TFX DAO.

TFX token will be the core driving force of TFX ecological governance and development. Therefore, TFX DAO hopes to stimulate the subjective initiative of the community, mobilize the high-quality resources of the community in a democratic, collaborative and transparent way, and promote the construction of a decentralized and positive-driven DAO autonomous system.

2) Governance elements of TFX

As a decentralized autonomous organization, TFX DAO is a technical tool written in code and running on the blockchain. It is also a new type of governance institution that can achieve openness and fairness, unattended and autonomous operation, and there is no legal entity.

All holders of the governance token TFX are entitled to participate in the TFX DAO. Under the basic principle of "one TFX, one vote", all community members work together to build a scientific governance system to achieve DAO governance with goals, processes and results. Different users may have different voting weights. Exchange addresses cannot participate in voting. TFX holders can participate in the following discussions on what will benefit the development of the project:

- Community Development Matters
- Proposal on token economics
- Important model parameters for TFX

- Cooperation and development of TFX
- Marketing activities
- Exchange and cooperation
- Other matters related to marketing strategy

In the future, TFX holders will be able to fully control the project and decide the development direction, market expansion plan, technology roadmap, asset security and ecological incentives, with a view to achieving complete decentralization.



Chapter VI: The Project Team

With the support of the Silicon Valley Blockchain Digital Research Institute, most of the core technology R&D team members of the TFX blockchain application platform are from the Silicon Valley technical elite team, other top blockchain projects and well-known Internet companies. It brings together the industry's best technical experts in various fields such as computer, information security, games, communications, mathematics, finance, web development and high-frequency algorithmic trading. At the same time, team members have market and practical experience in DAPP development, DeFi, NFT, Metaverse, chain games, big data, social networking, public welfare, shopping malls, etc., not only have strong technical capabilities, but also have excellent scientific research capabilities. Outstanding results have been achieved in this area.

Rick Fishbune - Singapore computer scientist, worked at IBM Computer Research Center. Proficient in the principles and implementation of mainstream blockchain technologies such as Bitcoin, Ethereum, and HyperLedger, and have a deep understanding and rich practice in blockchain consensus mechanism, smart contracts, cross-chain technology, side-chain technology, and privacy protection.

Richard Dobrow, a famous blockchain software development engineer in Silicon Valley, is responsible for the cross-platform porting of mining algorithms for virtual currencies such as Bitcoin and ETH, and the development and management of mining machine software. It has accumulated rich industrial experience in the technical architecture of virtual digital currency wallets and virtual digital exchanges.

Justin Drake — The research focuses on big data parallel computing and distributed algorithm optimization, and has rich research experience in blockchain, cryptography, and data mining. In-depth algorithm support will be provided for the project at the core mathematical model of blockchain, core algorithm of artificial intelligence, and parallel computing of big data.

Jimmy Lee - Master and Ph.D. in Electrical Engineering and Computer Science, National University of Singapore. His research involves data mining, e-commerce data and algorithm optimization. Responsible for the construction and optimization of artificial intelligence algorithms for the project.

Tony Wong - Ph.D., Postdoc in Computer Science, Yale University. 10 years of data storage R&D experience. He has served as the chief scientist of several big data companies successively. He is an expert in business intelligence systems and has authoritative influence in data mining. He has founded his own big data research company and is responsible for project architecture and program design.

Maaghul Clinton - technical developer, master of computer science from Harvard University, Python language expert, blockchain technology engineer. His research involves data mining, artificial intelligence and algorithm optimization. Responsible for the construction and optimization of artificial intelligence algorithms for the project.

Matthew Walther — — Program developer, senior engineer of blockchain technology application, has senior development experience in the field of private social networks. With 15 years of experience in the Internet industry, proficient in multiple computer languages, good at massive high-concurrency available architecture design, and rich experience in R&D management.



Chapter VII Risk Tips and Disclaimers

7.1 Risk warning

1) Risk of losing digital tokens due to certificate loss

The purchaser's tokens may be associated with an account before they are distributed to the purchaser. The only way to enter the account is the relevant login credentials selected by the purchaser. Losing these credentials will result in the loss of digital tokens. The best way to securely store login credentials is for the purchaser to separate the credentials to one or more places for safe storage, and preferably not to store or expose them at work.

2) Risks related to core protocols

Digital tokens and applications are developed similarly to the Ethereum protocol, so any failure of the core protocol, unanticipated functional problems or attacks may cause digital tokens or applications to stop working or lose functionality in unexpected ways. In addition, the value of the account in the protocol may also decrease in value in the same way as the digital token or in other ways.

3) Risks associated with purchaser certificates

Any third party that obtains the purchaser's login credentials or private key may directly control the purchaser's digital tokens. To minimize this risk, the purchaser must protect his electronic device to prevent unauthenticated access requests from passing through and accessing the device. content.

4) Related policy risks

Blockchain technology has become the main object of supervision in major countries in the world. If the regulatory body intervenes or exerts influence, applications or digital tokens may be affected by it, such as legal restrictions on the use, sales, electronic digital tokens such as digital tokens have May be restricted, hindered or even directly terminated the development of the application.

5) The risk of lack of attention to the application

There is a possibility that project applications are not used by a large number of individuals or organizations, which means that the public does not have enough interest in developing and developing these related distributed applications. Such a lack of interest may have a negative impact on tokens and applications.

6) The risk that the relevant application or product does not meet the standard

The expected risk of the project itself or the purchaser The application is currently in the development stage, and may undergo major changes before the official version is released. Any function or form of the application or digital tokens (including the behavior of participants)) expectations or imagination may fail to meet expectations, and any wrong analysis, change, etc. may lead to this situation.

7) Vulnerability risk or risk of rapid development of cryptography

The rapid development of cryptography or the development of technology, such as the development of quantum computers, may bring the risk of cracking to encrypted digital tokens and platforms, which may lead to the loss of digital tokens.

8) Risk of lack of maintenance or use

Digital tokens should not be considered an investment, and while digital tokens may have a certain value after a certain period of time, this value may be very small if there is a lack of maintenance or use. If this happens, there may be no follow-up or few follow-ups without this project. Obviously, this is very bad for digital tokens.

9) Risk of uninsured loss

Unlike bank accounts or accounts with other financial institutions, which are generally not insured on accounts or networks, there will be no public organization to cover your losses in any event of loss.

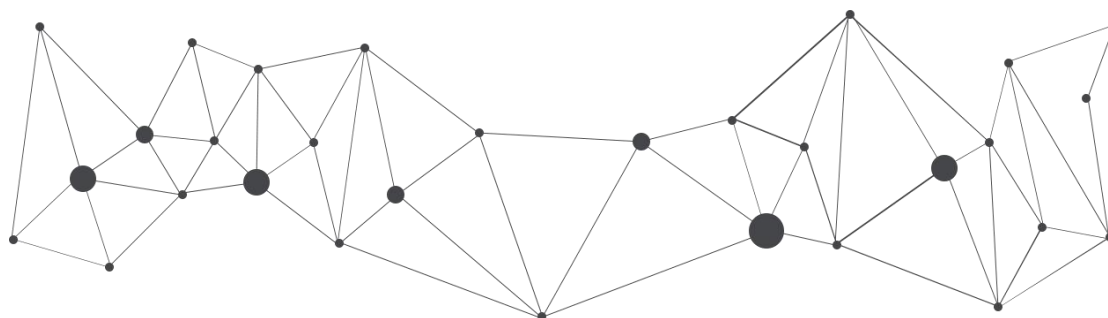
10) Other unforeseen risks

Cryptographic digital tokens are a brand-new and untested technology. In addition to the risks mentioned in this white paper, there are also some risks that

the team has not mentioned or not expected. In addition, other risks may also appear suddenly , or in a combination of the risks already mentioned.

11) Other instructions

Fully understand the development plan of the operation project and understand the relevant risks of the blockchain industry, otherwise it is not recommended to participate in project-related cooperation.



7.2 Disclaimer

The document is intended for information purposes only and is intended for reference only and does not constitute any investment advice, solicitation or offer to sell shares or securities on the TFX blockchain application platform and its related companies. Such offers must be in the form of a confidential memorandum and in accordance with relevant securities and other laws.

The contents of this document shall not be construed as a forced participation in the Token public offering. No action related to this White Paper shall be considered a participation in the Token Public Release, including a request to obtain a copy of or a share of this White Paper to others.

Participation in the Token public offering means that the participants have reached the age standard, have complete civil capacity, and the contract signed with the TFX blockchain application platform is true and effective. All the participants signed the contract voluntarily and had a clear and necessary

understanding of the TFX blockchain application platform before signing the contract.

The TFX team will continue to try to ensure that the information in this white paper is true and accurate. During the development process, the platform may be updated, and part of the document may be adjusted in the new white paper as the project progresses. The team will publish the update through an announcement or a new white paper on the website. Participants are sure to obtain the latest version of the white paper and adjust their decisions according to the updated content.

The TFX blockchain application platform makes it clear that it is not liable for losses caused by participants due to (a) reliance on the content of this document, (b) inaccuracies in the information contained in this article, and any actions caused by GiD here. The team will spare no effort to achieve the goals mentioned in the document, but based on the existence of force majeure, the team cannot fully make a completion commitment.

To the maximum extent permitted by applicable law, the Team shall not be liable for damages and risks arising from its participation in the Token public offering, including but not limited to direct or indirect personal damage, loss of business profits, loss of business information or any other economic losses.

The TFX blockchain application platform complies with any regulatory regulations and industry self-discipline statements conducive to the healthy development of the industry. Participant participation means that the representative will fully accept and comply with such examinations. Meanwhile, all the information disclosed by the participants to complete such examinations must be complete and accurate. The TFX team has clearly communicated the possible risks to the participants. Once the participants have participated in the Token issue, they have confirmed the understanding and approval of the terms in the rules, accepting the potential risks of the platform with their own consequences.

