Financial Ecosystem Chain (FEC)

Next-Gen Decentralized Financial Ecosystem based on Blockchain Technology

White Paper 1.0

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1. Abstract

Blockchain originated from a paper on Bitcoin by Nakamoto in 2008, which came into public view as the underlying technology of Bitcoin. After nearly 10 years of development, blockchain has developed from the era of 1.0, which supports digital currency only, to the current 3.0 era. It has realized decoupling with Bitcoin, and has begun to be applied in many fields other than finance. With the rapid progress of blockchain technology, various value applications are constantly landing, and the blockchain industry is experiencing great transformation. As an emerging technology, blockchain industry has the characteristics of strong compatibility and high flow, which makes it can be combined with traditional industries, help the development of traditional industries and empower them.

However, the real industry has many pain points and problems, which greatly limits its sustainable development. Based on blockchain technology and ecology, financial ecosystem chain (FEC) breaks regional barriers through digital economy, forms a verifiable open,

transparent and traceable economic model, breaks through regional restrictions, creates a new economy of blockchain and real industry, and truly realizes the real economy of blockchain and real industry.

2. Project Background

With the continuous development of blockchain technology, blockchain technology is deeply integrated with more and more real industries, and plays an increasingly critical role in promoting cross regional collaborative development of manufacturing industry, industrial interconnection, intelligent manufacturing, data sharing, and financial empowerment of the real economy. The integrated application of blockchain technology plays an important role in the new technological innovation and industrial transformation. As an important breakthrough of independent innovation of core technology, blockchain technology and industry are developing rapidly. It can be seen that blockchain technology and ecology are ushering in a new digital economy society. Specifically, the core technical features of blockchain include "decentralization", "traceability" and "unalterable", which can effectively support the upgrading of "manufacturing service" and "industrial sharing economy". In particular, the output, circulation and incentive of digital value token based on the realization of blockchain intelligent products can effectively promote the rapid development of manufacturing innovation and entrepreneurship enterprises To cross the

gap, realize exponential growth, and form a new business ecology based on intelligent hardware.

At present, the core of blockchain development is still to enable the real economy, and truly solve the problems and pain points in the industry, so as to truly reflect the value of blockchain. At present, blockchain has many entity landing scenarios. Blockchain enables intelligent manufacturing product R&D and manufacturing business model innovation, which can effectively solve the problems of trust and efficiency in the industry and bring new value experience to users. Supply chain finance is an important combination of the real economy and the financial field. The blockchain breaks the barriers between the financial and the real economy and effectively promotes the integration and symbiosis development. The financing problem faced by traditional industrial manufacturing can endow the supply chain with new vitality by deepening the combination of supply chain management and block chain. Blockchain can make financial information no longer become an island. Transparent supply chain is conducive to the financial management and ecological construction of supply chain in manufacturing industry. At the same time, blockchain enables the industrial Internet, seizing the opportunity of blockchain technology integration, function expansion and industrial segmentation, and can give full play to the role of blockchain in promoting data sharing,

optimizing business processes, reducing operating costs, and improving collaborative efficiency. Through the combination of blockchain and big data, Internet of things and artificial intelligence, industrial big data can be enabled to build a credible industrial Internet.

Financial Ecosystem Chain (FEC) is such a blockchain project that, although based on the blockchain outlet, is not arrogant and impetuous, and is committed to making the blockchain really solve the problems and pain points of the betel nut industry, and ultimately realize the sustainable development of the betel nut industry.

3. Project Introduction

3.1 What is Financial Ecosystem Chain (FEC)?

Founded by the Singapore foundation, financial ecosystem chain is the world's first digital asset-based ecological platform for real industry based on blockchain technology. It has the functions of anti-counterfeiting and traceability, boutique mall, supply chain finance, intelligent futures trading, asset right confirmation and online. Financial ecosystem chain aims to solve the problems of complex and different standards of real industry system, lack of sustainable business model, difficulty in asset circulation and financing development, and is committed to reDeFining the new standard of global real industry,

enabling the green and sustainable development of real industry, and leading the global real industry into the era of block chain digital assets.

3.2 Characteristics of Financial Ecosystem Chain (FEC)

FEC has become the key button for asset replacement of financial ecosystem chain (FEC). FEC can be circulated and exchanged in financial ecosystem chain (FEC) DAPP, and FEC can be used in financial ecosystem chain (FEC) platform for corresponding resource replacement. At present, digital assets are in the state of being developed, and financial ecosystem chain (FEC) is likely to shoulder the banner of wealth industry payment in the digital era. Compared with the traditional industry platform, the advantages of financial ecosystem chain (FEC) are as follows:

1. Establish an audit mechanism to trace the whole process of planting, picking, processing, warehousing, logistics and consumption;
2. Launch the decentralized intelligent futures trading platform, and use financial technology to change the financing development problems of the industry;
3. Use blockchain technology to break regional restrictions and create a global decentralized service model FEC digital assets are used to stimulate the consumption demand of users;

4. Use the concept of supply chain finance to integrate the resources of industry chain to build a global industry community.

3.3 System Infrastructure

The system architecture of financial ecosystem chain (FEC) needs to fully conform to the operation logic of the real industry. It will create a more sustainable, decentralized and innovative industry with new landing thinking and new marketing concepts. Therefore, the system architecture adopts hierarchical system, which is divided into application layer, interface layer, blockchain core layer and infrastructure layer.

3.4 Business Structure

Financial ecosystem chain (FEC) is committed to enabling the real industry by blockchain, solving the problems of complex and different standards of real industry system, lack of sustainable business model, difficulty in asset circulation and realization and financing development, and create a new real retail economy. The system architecture of financial ecosystem chain (FEC) needs to be able to meet the business development needs of the real economy. Therefore, the financial ecosystem chain (FEC) platform covers commodity contract, warehouse management, asset chain, physical insurance, boutique market and other application modules, so as to meet the realization

needs of the real industry. Through the public blockchain layer of financial ecosystem chain (FEC) and FEC token, the payment system of global real industry can be realized and an efficient payment ecology of real industry can be created. At the same time, the financial ecosystem chain (FEC) private chain system can well manage data rights to ensure that users' privacy will not be disclosed, which meets the needs of consumers for privacy protection in the real economy.

Traceability and certification: in the production process of physical products, the relevant data is stored in all nodes of the blockchain, which solves the disadvantages of centralization. No organization or individual can modify product information for their own interests, and realize food traceability perfectly.

Right confirmation and evidence collection: financial ecosystem chain (FEC) provides a transparent, traceable and distributed data account book, and all information can be truthfully and completely recorded, providing the basis for digital right confirmation and traceability.

Token incentive: the incentive mechanism for each participant in financial ecosystem chain (FEC) to participate in the operation and maintenance of the blockchain, so as to improve the participation of all users, which will bring enough social influencers and commercial value.

Token consumption: when the system has set the exchange standard, it

can be directly used as cash in the consumption process; when users purchase physical products, they need to consume the token.

Token query: query the remaining total amount, consumption record, transfer record and acquisition record of users in the chain through hash value.

Token transaction: it is the process of transferring to the receiver after deducting from the user's own token account, which is the free transaction behavior of both users.

Token settlement: in the digital currency exchange, digital currency withdrawal (i.e. token settlement) can be carried out.

3.5 Technical advantage

Financial ecosystem chain (FEC) is committed to technological innovation. While introducing blockchain technology, it also innovates and develops blockchain, so as to meet the needs of real industry in the actual development process.

3.5.1 Zero Knowledge Proof

Through zero knowledge proof, the prover can interact with the verifier, and the prover can make the verifier believe that a certain conclusion is correct without providing any useful information to the verifier, thus protecting the privacy of users.

3.5.2 Sharding technology

Sharding is a solution to block capacity. Generally, each node and blockchain network contain a complete copy of the blockchain. Sharding is a technology that allows nodes to have a partial copy of the complete blockchain, so as to improve the overall performance and stability speed. Financial ecosystem chain (FEC) can greatly increase the transaction speed, realize the combination of real industry and blockchain, and create large-scale application.

3.5.3 Cross-Chain technology

Financial ecosystem chain (FEC) operating system aims to promote the cross chain interaction between blockchains, which is realized by simplifying the proof of message existence and the proof of message sequence. These proofs are combined with the application architecture design around information transmission, and can hide the details of cross chain interaction and verification and avoid being exposed to application developers. The establishment of cross chain mechanism is conducive to the rapid exchange of different public chain assets and information, meeting the diversity of payment, breaking the barriers between different assets, and realizing the maximum development of financial ecosystem chain (FEC).

3.5.4 Consensus Algorithm

Financial ecosystem chain (FEC) adopts a new and original POSC consensus mechanism. POSC integrates the advantages of multiple consensus mechanisms, avoids the disadvantages of other consensus mechanisms, and solves the problems of excessive energy waste, slow transaction speed and oligopoly caused by ASIC, and also solves POS The result is that the degree of centralization is too high. In POSC algorithm, the hard disk mapping algorithm based on plot makes miners need P disk first, that is, according to their own public key and shabal algorithm, generate plot files on the hard disk and lock part of the unit space at the same time. The larger the remaining capacity of the hard disk, the more hash values filled in the plot file, the higher the probability of block production. At the same time, based on POC capacity proof algorithm, miners ask the wallet for mining information: block packing signature, basetarget, next block height. The wallet is responsible for the block packaging signature and the next block height. The miner uses these two information to generate generationhash through the shabal256 algorithm, and then obtains the SCOP value through modular operation (4096). For each transaction packed into the block, the wallet needs to check, for example, whether the signature of the transaction is correct, whether the time is correct, and so on. After the wallet of other nodes receives the block, it verifies the transaction of

the block one by one, and gives rewards to the miners. When calculating the reward, the wallet first searches the mortgage information in the local block. If the money pledged by the miner meets the mortgage conditions DeFined in the economic model, the full reward can be obtained.

1) High performance, in line with the real economy

In order to facilitate large-scale commercial use in the future, when we design at the bottom, high-performance is the key one of our important technical indicators. At present, BTC can only accept seven transactions per second, and the third generation public chain EOS, which claims that TPS is more than one million, eventually TPS does not exceed 5000. This is far from meeting the commercial demand, especially for a large number of enterprises. After the Merchants join in, the congestion will be more serious. We have taken these problems into consideration at the beginning of designing the underlying architecture. With the support of advanced technologies such as slicing technology, side chain technology, cross chain technology and zero knowledge proof, we will meet a large number of commercial large-scale applications in the future. At present, before the function is fully developed, our TPS has exceeded 10000.

2) Low mining threshold

POW consensus mechanism (BTC, ETH, etc.) mining requires expensive and dedicated ASIC or GPU mining machines. Compared with this, financial ecosystem chain (FEC) network mining only needs one computer or notebook computer to participate in mining. As long as the idle several terabytes of disk space can be used to enter the financial ecosystem chain (FEC) network mining, only POSC Only in this way can we really reduce the mining threshold and realize the vision that everyone has mining machines and everyone participates in mining. At present, the price of 3T capacity of ordinary hard disk is about 500 yuan. Only one ordinary PC can participate in the mining of financial ecosystem chain (FEC) network based on tokenword consensus process. This is a very low threshold for those who first understand and enter the field of digital currency.

3) Energy saving and environmental protection

The POSC consensus mechanism used in financial ecosystem chain (FEC) network does not need to consume a lot of electric energy and generate a lot of heat due to the lack of a large number of meaningless hash operations. The features of low noise and low cost are more suitable for most people to participate in mining, deploy some blocks and throw them into the corner of the hard disk, so there is no need to

worry about huge electricity charges. In the financial ecosystem chain (FEC) network, the mining program will store the scheme value of the calculated hash function in the hard disk, and scan the hard disk once to find the correct scheme value when the new block is generated. The process of scanning the hard disk consumes very low power, and there is no hash operation, which avoids a lot of power loss.

4) Anti ASIC

POSC consensus mechanism has the characteristics of natural anti ASIC. Under the pow consensus, miners constantly replace new chips in pursuit of greater computing power. These chips become chips specially designed for these algorithms in the later stage, namely ASIC mining machine. This problem will not exist in the mining of POSC consensus of financial ecosystem chain (FEC). Since there is no need for a lot of hash calculation, the computing power has little relationship with the computing chip. If miners want to improve their computing power, the only thing they can do is to expand the hard disk capacity. At the same time, hard disk also has a high rate of value preservation. Even if it does not participate in mining in the later stage, the old hard disk can also be used to store data and sell it for the second time. Therefore, compared with pow mining machine, the residual value and value preservation rate of hard disk are very high.

3.5.5 IPFS decentralized storage

Financial ecosystem chain (FEC) will be combined with IPFS decentralized storage technology to ensure the safe storage of user data in business activities. It can also greatly reduce the storage cost and avoid the waste of storage space. Through cryptography, everything has its own code to automatically identify duplicate files. Therefore, IPFS decentralized storage technology can be more secure, open and cheaper than the traditional centralized cloud storage, and solve the problems of data right confirmation and privacy, which will solve the traditional personal and enterprise data storage problems, so as to better enable the application development and landing of various kinds of real industries.

3.5.6 Decentralized Finance

As a distributed financial platform, DeFi has the characteristics of adopting blockchain technology, serving the financial industry, open source code and having a sound developer platform. The emergence of DeFi breaks the shackles and restrictions of traditional financial centralization, creates an open financial system, and promotes the development and innovation of the global financial system. Based on the DeFi infrastructure, financial ecosystem chain (FEC) will create a corresponding stable digital currency through CDP mortgage system, which not only ensures the reliability and stability of its stable digital currency, but also makes a great contribution and role in the

combination of real industry and blockchain technology ecology.

4. Ecological applications

4.1 Traceable e-commerce platform

Financial Ecosystem Chain (FEC) based on blockchain technology, it creates an e-commerce platform with whole process traceability, and creates a reliable, visible, credible and perceptible user experience, including blockchain traceability, live tracking, traceability of source code, environmental monitoring and traceability, intelligent vending freezer, etc., recording all information of the entity's planting, processing, packaging, transportation, storage, distribution and distribution stages Chain, to build the traceability system of entity whole life cycle blockchain.

Specifically, consumers can intuitively see the production, production, packaging and delivery process of the purchased physical products through the real-time video after sending out the shopping request through the electronic purchase order on the entity traceability e-commerce. In this process, consumers can directly and clearly see the production place and product manufacturer of physical products, and put all the procedures that were not seen by consumers in the sun, and complete under the supervision of consumers, so that all fake parallel

products and fake substandard products can not escape. From the source of production and manufacturing to the hands of consumers, every link is open and transparent, so that consumers can see the truth, and all data will be stored on the blockchain, so as to truly achieve the authenticity and reliability of the data.

At the same time, the natural decentralized nature of blockchain technology will directly deliver global high-quality physical goods from the source of production and manufacturing to consumers, ensure the gene of physical products, and shorten the links between consumers and high-quality products. By cutting off the layers of dealers between manufacturers and consumers to streamline the shopping chain, effectively avoid the middle bad entity dealers under the banner of mixing fake and shoddy products and other invisible behaviors, which is conducive to re-establish integrity with consumers.

4.2 Assets on chain

With the gradual maturity of policies and technologies, blockchain applications begin to shift from virtual to real, and computing power will become a new productivity. Financial ecosystem chain (FEC) will also step into the ultra-high speed track. It will use the combination of real industry and blockchain technology to "Encrypt" each physical product, so that the whole process of production and circulation can be followed. Consumers can obtain the right confirmation information by

tracing the physical block chain, so as to solve the "trust crisis" of food, break the boundaries of global real industry and form a "go" The community consensus of centralized blockchain will reshape the real industry system.

In addition, the financial ecosystem chain (FEC) fully integrates the upstream and downstream industries of global real estate, realizes the circulation of global entity digital assets and enables the development and upgrading of the real industry through the application links of real asset right confirmation, traceability, bidding transaction, custody storage, pledge service, guarantee service, etc. With the sharing and circulation of data assets across platforms and institutions, new business value is constantly created and fed back to the participants who trust each other. This positive feedback mechanism can also continuously attract more participants and more data, so as to further expand and expand the global entity ecosystem. Asset ownership chain not only ensures the reliability and liquidity of physical products, but also can map the enterprise value to the chain according to the valuation, so as to realize the assets on the chain, so as to facilitate the financing, trading and circulation of the real enterprise, so as to help the entity enterprise obtain financing better and promote the sustainable development of the entity enterprise.

4.3 Supply Chain Finance

The emergence of blockchain technology and mode has led the supply chain finance to a new height, which has brought great improvement to the real industry supply chain finance, such as eliminating the false and retaining the true, authentication, information collaboration and so on. Therefore, the supply chain finance of the real industry will help to form the future industrial ecology in the form of digitalization and intelligence, and relying on the paradigm of blockchain. The development of supply chain financial business will have an impact on the pattern of the real industry. The giant enterprises in the same industry will compete in this link, which can better realize the platform of capital flow, and establish closer business cooperation with suppliers and distributors in the upstream and downstream of the real industry.

Moreover, with the assets on the chain, the ability of enterprises based on financial ecosystem chain (FEC) in asset credit rating, enterprise credit rating and risk control will become the core competitiveness of expanding capital sources in the future. Financial Ecosystem Chain (FEC) connect all enterprises and financial institutions in the supply chain, improve the efficiency of capital allocation, support small and micro enterprises to finance based on the supply chain, reduce financing costs, and deeply activate financial resources. This is bound to promote

the rapid development of the supply chain financial market. The penetrating supervision of the underlying assets will also help to improve the asset rating and promote the issuance of ABS products of supply chain finance.

4.4 Intelligent futures trading platform

The real industry chain is long, and there may be various capital flow related risks. The smart contract based blockchain technology closely links futures exchanges, delivery warehouses, inspection departments, banks and futures companies, which can improve process operation efficiency, shorten capital flow cycle, reduce delivery risk, and promote the linkage of futures and spot markets. Through the intelligent futures trading platform, investors or manufacturers can realize hedging and ensure that their assets are not damaged. At the same time, the intelligent futures trading platform can use digital assets as circulation, breaking the isolated island of global real industry, realizing the efficient circulation of global physical assets, and promoting the sustainable development of the real economy.

4.5 Physical Ecological Industrial Park

The ecological industrial park built by financial ecosystem chain (FEC) will build a global and sustainable ecological industrial system from the perspectives of tourism and ecological mall. From the perspective of

entity related tourism, leisure and vacation, financial ecosystem chain (FEC) will select 21 tourist resorts around the world and launch entity themed tourism and leisure services, so that users can fully enjoy different cultural landscapes while experiencing physical products. At the same time, financial ecosystem chain (FEC) will also create an ecological boutique mall, including physical tea making, wine making, pharmaceutical and other products, so that consumers can freely choose and buy. Combined with the characteristics of blockchain traceability and digital token payment, consumers can feel at ease and eat at ease. At the same time, they can also enjoy low-cost, efficient and global payment means, which greatly reduces the purchase cost.

4.6 Diversified application scenarios

Based on the public chain of financial ecosystem chain (FEC) and global real industry to promote diversified industrial platform, more scenes of real industry ecology are opened up, and diversified application scenarios such as financial insurance of real industry, intelligent logistics of real industry and innovation incubation of real industry are gradually promoted.

5. Token Issuance

In order to fully meet the development goals of the real economy, financial ecosystem chain (FEC) will introduce double token

mechanism, namely stable currency and equity currency. Among them, the stable coin FUSD is applicable to supply chain finance, and the delivery right within the whole ecological industry is used for payment and circulation; while the equity coin FEC is for the shares of the whole entity public chain, users can manage dividends and enjoy value-added dividends.

5.1 FUSD

5.1.1 Principle of the system

FUSD is a stable currency supported by the value of cryptocurrency assets BTC, ETH and FEC based on the underlying principle of decentralized finance. Its valuation is anchored with the US dollar. In the later stage, FUSD will also accept other cryptocurrencies and even off chain assets as collateral. Specifically, any user holding BTC, ETH or FEC mortgage assets can send mortgage assets to collateralized debt position (CDP) to obtain a certain proportion of

FUSD, which depends on the mortgage rate selected by users. FUSD system adopts the way of over mortgage, so it means that the mortgagor must pay more mortgage assets than the value of FUSD loan to complete the transaction.

In order to maintain the stability of the stable currency value, the system

needs to ensure that there are enough decentralized asset collateral behind each issued FUSD. Therefore, the system introduces a clearing system to clear the CDP with insolvency risk. At the same time, the system will also store part of the risk reserve to cope with the huge fluctuations of digital currency caused by the black swan event. At the same time, in order to improve the liquidity of FUSD, various applications on financial ecosystem chain (FEC) and third-party cooperation will provide FUSD with continuously expanding demand, stabilize currency and mortgage assets, and promote mutual development.

5.1.2 System Participators

1) Price feeder：In order to stabilize the currency system, it provides the main body of FEC, BTC and ETH in the secondary market price. The price feeder is the super node of financial ecosystem chain (FEC), and it needs to meet the requirement of locking a certain amount of FEC.

2) Stake：Users who stake assets in CDP. It can be because of the application needs of DAPP, leverage of cryptocurrency, and other financial needs to obtain FUSD by mortgage assets, and obtain additional liquidity without giving up the ownership of mortgage assets.

3) Settlement：Under the clearing mechanism, users participating in clearing abnormal CDP. The liquidator can be any person in the market. As long as he has FUSD, he can participate in the liquidation and obtain systematic interest in the liquidation.

4) Acceptor: a mortgagor who provides FUSD for others and benefits from it. The acceptor provides services to users who want to buy FUSD directly instead of mortgage, and provides reverse exchange. In the exchange service, the acceptor makes profits through premium or service charge. In order to encourage the acceptors to issue enough FUSD for market circulation, the interest rate of stabilization fee is set to be negatively correlated with the lending volume. The interest rate of stabilization fee will decrease exponentially as the number of wusd loans increases.

5) Governance：FEC holding users will obtain corresponding rights, responsibilities and obligations in the system.

5.1.3 Stable mechanism

According to the above, CDP is used to preserve and protect the assets mortgaged by users. The FUSD obtained by the mortgagor from CDP is his debt, and the mortgagor can only take back the mortgaged assets after paying off FUSD . Like the asset mortgage in the fiat currency

society, the excess mortgage means that the value of the mortgage assets is higher than the value of the debt. This is mainly due to the volatility of cryptocurrency, so the value of mortgage assets in the stable currency system is also fluctuating, and the mortgage rate will change accordingly. The system will sense the corresponding mortgage rate of all CDPS in real time. When the mortgage rate drops to 150% or below, this kind of CDP will be DeFined as abnormal state by the system, otherwise, it will be DeFined as safe state. In order to ensure that there are enough assets behind the FUSD for each stable currency issued, abnormal CDP needs to be closed in time. In this way, the value of FUSD can always be in a stable state, so as to meet the value characteristics of its stable currency. The encrypted asset that can be mortgaged at the initial stage is the financial ecosystem chain (FEC) token FEC, which is then incorporated into BTC and ETH. With the development, it will gradually include other valuable assets.

5.1.4 Supply demand

In the system, the price of FUSD is hard anchored to US $1, while in the secondary market outside the system, due to the change of supply and demand, the price of FUSD will be soft anchored to USD. Therefore, in addition to using liquidation mechanism and risk reserve to protect the value of mortgage assets higher than the value of issued stable currency,

we also need to respond to the price fluctuation of FUSD in the secondary market. Specifically, if the value of FUSD is higher than $1 in the long run. In theory, market arbitrage behavior can make the price callback, but the arbitrage path is long, and it has to bear the risk of asset volatility. Therefore, in practice, the self-regulation effect of the market is not good and accurate prediction. Therefore, if the market behavior does not work for a long time, it is necessary for the administrator to play a governance role, such as reducing interest rates and encouraging mortgagors to issue a large number of FUSD.

If the value of FUSD is less than $1 for a long time. For the liquidator, FUSD can be hoarded for use in liquidation, which expands the income. If the market behavior can not play a better role, it is also necessary for the administrator to play a governance role, such as raising the interest rate of the stabilization fee and actively expanding the application demand.

5.1.5 Settlement mechanism

The normal CDP belongs only to the mortgagor, and only the mortgagor can redeem it. The abnormal CDP will enter the forced clearing pool, and anyone can initiate the liquidation; at the same time, the mortgagor can redeem his abnormal CDP in the redemption operation interface.

There is no stabilization fee for the cleared CDP, but there is a fine. The fine rate is 13%, which is calculated by single calculation. In addition, in order to complete the liquidation as soon as possible, the liquidation assets will be sold to the liquidator at a discount of 97%.

According to the different staking rates in liquidation, there are three situations in theory.

1. The staking rate is between 113% and 150%

113% of the value of the loan FUSD mortgage assets will be sold to the liquidator, who can obtain the mortgage assets by giving the corresponding FUSD to the system. There are three directions for the FUSD given to the system by the liquidator. The same amount of FUSD as the loan value will be destroyed. 50% of the remaining FUSD will be put into the risk reserve pool, and 50% will be converted into FEC and automatically destroyed. The mortgaged assets not sold shall be returned to the mortgagor.

2. The staking rate is between 113% and 150%

All the staked assets will be sold to the liquidator and no remaining assets will be returned to the mortgagor. The FUSD of the system given by the liquidator also meets the closing demand of CDP first. The remaining 50% is converted into FEC and then destroyed, and the other

50% enters the risk reserve pool. The difference is that the actual fine rate is 4% - 13%.

3. The staking rate is between 113% and 150% At this time, the system will use the FUSD in the risk reserve to close the position of the insolvent CDP, and then the assets released from the CDP will be converted into FEC, and at the same time, FEC will be issued to convert into FUSD in the decentralized exchange. After the transaction is completed, the two parts of FUSD will return the risk reserve.

5.2 FEC

In addition to obtaining the stabilization fee and fine, the administrator also plays a key role in the management of financial ecosystem chain (FEC) to maintain the stable operation of the system. FEC is the equity currency of FUSD. The users who hold FEC are the administrators of the system. The voting participants in the financial ecosystem chain (FEC) super node election will receive FEC rewards. Any governance person who meets the rules set by the system can initiate a proposal and then vote to decide whether the proposal is tokened and implemented. The whole governance is shared by FEC holders. A qualified proposal is put forward, and then voting begins. All FEC holders can vote to decide whether the proposal is tokened and implemented. The main content of the proposal is to set the parameters of the system operation, including interest rate, penalty rate and so on. Therefore, equity digital token

FEC is an important part of financial ecosystem chain (FEC) ecology. It is designed to fully serve the financial ecosystem chain (FEC) network. On the whole, FEC can be regarded as the shares of this entity's public chain, and users can get dividends when they participate in governance. At the same time, with the continuous expansion and development of financial ecosystem chain (FEC), users can also enjoy dividends.

Before the launch of the financial ecosystem chain (FEC) main network, the token was deployed on the Ethereum network according to the erc20 standard. After the release of the main network, the token will be fully migrated to the financial ecosystem chain (FEC) main network. As the circulation of ecological equity token, FEC improves the value of FEC through expanding payment scenarios and node locking liquidity, motivates community participants and builders, and maintains the stable ecological operation of financial ecosystem chain (FEC). Different from other projects, the total number of FEC token is 200 million, and the specific allocation rules are as follows:

-40% liquidity mining
-20% ecological expansion

-5% for global ecological strategic cooperation
-10% for foundation management

-10% community incentive

-5% owned by core team

5.3 Equity value

5.3.1 FUSD

Financial ecosystem chain (FEC) is committed to enabling the real economy by blockchain. Therefore, considering that the actual operation mode of the real economy needs to stabilize digital currency as a medium, and the volatility of ecological equity currency itself can not meet such demand, financial ecosystem chain (FEC) is committed to enabling the real economy by blockchain (FEC) has independently created FUSD stable digital currency through decentralized financial mechanism, which will be the only stable digital currency circulating in financial ecosystem chain (FEC) ecology. Its main equity values are as follows:

5.3.1.1 Payment & Liquidation

FUSD stable currency, as a combination of blockchain technology and the characteristics of stable legal currency value, can map the real-life physical assets to the blockchain by anchoring the legal currency, so that the transfer and transaction of physical assets can be easily completed on the blockchain. Financial ecosystem chain (FEC) is based on the global real industry, in which there is bound to be cross-border

payment scenarios, which will further enlarge FUSD's advantages of transfer speed and low cost. FUSD will help businesses in global real industries to open up global payment channels. At present, the handling fee of cross-border transfer platform used by these traditional platforms may be as high as 20%, while the service charge for using FUSD can be reduced to less than 0.1%. At the same time, based on the blockchain and smart contract, the transfer speed and efficiency of FUSD will also be greatly improved compared with the previous ones. The smart contract can ensure the accuracy of transfer, break the existing business trust model, and create a more efficient real industry economic model.

Users using FUSD stable currency to consume on the financial ecosystem chain (FEC) full traceability e-commerce platform can obtain additional discounts and rebates, so as to obtain a more favorable price system. At the same time, the FUSD stable currency can pay for various projects in the financial ecosystem chain (FEC) Industrial Ecological Park, and enjoy discounts, including tourism, leisure, vacation, etc., and can also purchase the physical products of the ecological boutique mall at a preferential price. At the same time, as long as it is a cooperative business on financial ecosystem chain (FEC), users can get certain discount and rebate by using FUSD to purchase payment products, thus promoting the liquidity of FUSD, so that users who hold and use FUSD can obtain real rights and interests.

5.3.1.2 Supply Chain Finance

Financial ecosystem chain (FEC) is based on the real industry chain, and combines the block chain with the real industry chain to create the supply chain financial products and ecology based on the physical industry chain. At present, small and medium-sized enterprises are an indispensable part of the national economy of any country. However, due to the lack of credit qualification, lack of mortgage and other factors, small and medium-sized enterprises have been facing the problem of financing, which affects the efficient operation of the industry and sustainable economic development. Supply chain finance is a kind of modern financial model which makes full use of information flow, logistics and capital flow to solve the problem of small and medium-sized enterprises' loan difficulty. Through the financial ecosystem chain (FEC) supply chain financial platform, relevant enterprises all over the world can conduct qualification rating through blockchain, so as to ensure the transparency and unforgeability of information. When an enterprise meets certain conditions, the financial ecosystem chain (FEC) supply chain financial platform will issue corresponding FUSD loans to meet the generation and operation needs of enterprises, and at the same time, it will charge a part of interest. Therefore, this will also be the right of financial ecosystem chain (FEC) ecological enterprises to use FUSD. At the same time, users can save

idle FUSD in financial ecosystem chain (FEC) platform to obtain interest. Finally, the financial ecosystem chain (FEC) will be able to combine with the real industry to greatly improve the efficiency of supply chain finance and promote the development of the real economy.

5.3.1.4 Financial Transaction

Most of the financial derivatives transactions are settled in cash. Stock exchanges, options exchanges and other modern financial infrastructure rely heavily on expensive intermediaries, such as clearing houses. And because of the opaque process of assets and capital flow, a series of financial risks are produced. In the foreseeable future, these derivatives can be settled on the financial ecosystem chain (FEC) through fusd stable currency, so as to minimize the cost of trust and improve the efficiency, at the same time, the ability to prevent financial risks is stronger. The stable currency fusd of financial ecosystem chain (FEC) is developed based on wikilink public chain. It has strong programmable ability. It can write derivatives and other rules into smart contracts. The rules are triggered by decentralized Oracle for settlement, so as to improve the efficiency and transparency of asset and capital flow. At the same time, using fusd as transaction settlement, investors can also enjoy the rights and interests of fee reduction and commission rebate. At the same time, fusd will become the trading pair of mainstream digital currency exchanges, so as to maximize the liquidity

of fusd and enhance the use value of fusd.

5.3.2 FEC

5.3.2.1 Yield Farming (Liquidity Mining)

Users can participate in liquidity mining by mortgaging FEC. Through the automatic lending agreement constructed by FEC DeFi, FEC DeFi decentralized financial platform will obtain excellent loan liquidity, thus promoting the sustainable development of FEC DeFi. Users can lend idle digital currency to FEC DeFi's fund pool to provide liquidity, and get corresponding token interest and FEC reward. In this way, with the increase of FEC DeFi lending rate, more and more FECs will carry out mortgage lending, thus reducing the overall circulation of FEC and creating a deflation model. With the continuous expansion of the capital pool of DeFi, the market value of FEC is also growing, which ultimately drives the continuous growth of FEC price. In addition to its own liquidity mining, FEC DeFi platform will integrate all relevant product information of the market as the entrance of the DeFi traffic, so that users can quickly realize arbitrage with one click, so as to achieve stable income.

5.3.2.2 Governance

The equity digital currency in financial ecosystem chain (FEC) ecosystem is FEC. Only holding a certain amount of FEC can

participate in financial ecosystem chain (FEC) ecosystem governance, voting governance for major events of the project. If it fails to token, 10% of the FEC pledged by the proposer will be included in the "voting incentive pool", and the rest will be returned to the original holder; if the proposal is tokened, all the locked FEC will be returned to the original holders, and if the "voting incentive pool" has funds, the "FEC participating in voting / FEC in full circulation" will be adopted The proposer of this proposal will be rewarded in proportion. At the same time, FEC holders can participate in seven risk system behavior voting, including adding new types of mortgage positions, modifying existing types of mortgage positions, modifying sensitive parameters, modifying target price change rate, choosing trusted Oracle, adjusting price sensitivity and selecting global liquidator. At the same time, FEC holders can also participate in modifying the four risk parameters of CDP in fusd stable currency system: debt ceiling, liquidation ratio, stabilization cost and penalty ratio.

5.3.2.3 Bonus

FEC can be understood as a regulator in the whole stable currency system. When the stable currency system runs well, the interest generated by fusd generated by mortgage, the fine generated by clearing CDP, and other income will be given to FEC holders as governance dividends under certain conditions. At the same time, holding FEC is

equivalent to having the equity of financial ecosystem chain (FEC), and then can participate in node pledge and voting, and continuously obtain dividends.

5.3.2.4 Value increment

When users redeem the mortgage assets, they need to pay FEC as stabilization fee. In this case, FEC will be destroyed. As more and more people use fusd, more and more stabilization fees will be spent, and more and more FECs will be destroyed, and FECs will become more and more valuable. In this sense, FEC can be regarded as a deflationary system, and FEC holders can benefit from the widespread use of fusd.

5.3.2.5 Ecological gas

FEC is not only a functional token for the entire financial ecosystem chain (FEC) network, but also a fuel token. In addition to the above incentive as a holder of participating in the governance on the chain, it can also pay the fuel cost of DAPP in various application scenarios in the financial ecosystem chain (FEC) ecology, and only holding FEC can build the desired DAPP on the financial ecosystem chain (FEC). And different from other modes, its fuel consumption will enter the distribution pool and be redistributed to FEC holders. Therefore, in the financial ecosystem chain (FEC) ecosystem, the value storage and liquidity of the two token models are perfectly separated. If the stored

value is viewed as FEC, the circulation depends on fusd, and the increase of fusd's liquidity can be well fed back to FEC. Such appreciation logic is positively related to the ecological expansion of the whole platform.

5.3.2.6 Preemptive Right

Financial Ecosystem Chain (FEC) will regularly launch a limited edition of high-quality physical products, tourism services, asset auctions and other assets on the chain. Users who hold FEC equity coins can enjoy the preemptive right as VIPs. According to the number of FECs held, they will be divided into different VIP levels. The more they hold, the higher the level, they will be able to buy more high-quality products at lower prices and participate in more new projects. The right to subscribe is similar to the stock market innovation. It can purchase assets at a lower price to obtain higher returns, but it needs to hold FEC to participate.

5.3.2.7 Ecological Participation

Financial ecosystem chain (FEC) will break the geographical restrictions and provide global real industries with blockchain infrastructure, cross-border payment system, sales channel platform, accurate flow system, etc., so as to truly support the real industry. As an ecological platform for globalization, financial ecosystem chain (FEC)

also welcomes the participation of global ecological partners.

Business owners can obtain the rights and interests of joining the ecology by holding FEC tokens, so as to obtain accurate flow and sell their products in a more efficient and local way. The flow owners and service providers can realize the flow and services by holding FEC, and finally form a sustainable financial ecosystem chain (FEC) ecology.

6. Road Map

June 2019: the establishment of the founding team is completed and the project is launched;

September 2019: complete the market and industry research and achieve the integration of key resources for project preparation;

December 2019: the core development team of financial ecosystem chain has been established and the public chain prototype has been developed;

March 2020: sign cooperation agreements with more than 20 entity upstream and downstream enterprises and 10 liquor making brands;

August 2020: the financial ecosystem chain project was officially released and the white paper was published;

September 2020: start global promotion and issue FEC pass to attract more global ecological partners to join in;

October 2020: financial ecosystem chain test online line, mobile FEC

wallet development completed

February 2021: realize the whole process traceability platform and asset right confirmation Registration Platform Online and put into operation formally

August 2021: financial ecosystem chain mining launched, users can carry out POS mining in mobile wallet

December 2021: complete the public test and launch of the supply chain finance and intelligent futures platform, and complete the business data chain of 21 + entity enterprises;

March 2022: complete the site selection of 21 tourist resorts in the world, launch the physical Industrial Ecological Park, attract 30 well-known pharmaceutical and large-scale tourism brands to settle in, and create a global boutique mall.

August 2022: serving more than 100 real economies through the financial ecosystem chain (FEC) ecosystem;

December 2022: enter the upstream and downstream enterprises of the real industry ecology to realize global circulation;

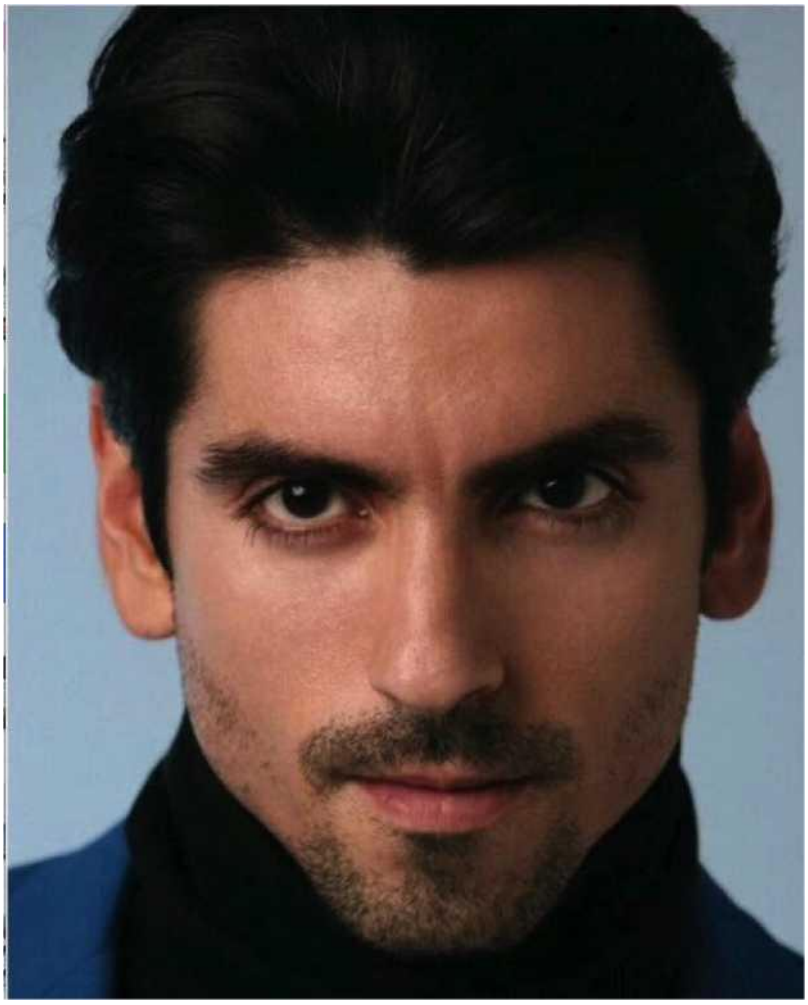
December 2023: update and iterate the technology and ecology, comprehensively upgrade the real industry, build a digital asset platform, and reshape the real industry with blockchain.

7. Team Members

Tony Denial

Foundation Chairman & CEO

Dr. Cornell University, an expert in the field of supply chain and finance, has worked for many listed companies. He has been deeply involved in global supply chain management for more than 10 years. He has extensive contacts in the global food health market and has a deep understanding of the global industrial chain.



Dony Betty

CMO

He is a distinguished senior lecturer in the school of finance, University of Southern California. He has 10 years of experience in Wall Street and worked as a senior project manager in several well-known trust companies. Early investors of blockchain, with rich investment experience and keen sense of investment, hold hundreds of millions of digital currency. They used to be cornerstone investors of ETH, EOS and other projects, and obtained huge returns.

Jay Belle

CTO

After graduating from Cambridge University of cryptography, he studied MBA and was a well-known cryptography expert in the industry. He has worked in IBM Los Angeles branch and Computer Department of branders University. He was responsible for the development of code distributed storage protocol based on IPFs and the Cloud Architecture Construction of teleexistence Inc. As a technical expert, I served as a technical consultant for several global blockchain projects.

Polly Wastern

CFO

He was admitted to top university with outstanding results and became an honorary professor of the National University of Singapore. He worked as financial consultant for Citigroup, JPMorgan Chase, Unilever and Ford. He has tutored Budweiser beer and other global companies in the construction of financial system.

8. Disclaimer

This document gives a brief introduction to the ecology and technology of financial ecosystem chain (FEC). This document does not provide any investment advice and advisory services. Interested investors should read this document carefully. This is not an investment guide.

Each potential investor should consult his own lawyers and consultants on all legal, tax, regulatory, financial and related matters related to his investment in the project.

This document does not constitute any act of selling or inviting others to buy or sell any form of FEC, or any connection, contract or commitment based on such form. All data or cases cited in this document are for presentation purposes only or represent industry averages and do not constitute a guarantee for the results of investor participation. Due to unforeseen circumstances, the objectives listed in this white paper are likely to change. The team will spare no effort to achieve the objectives mentioned in this white paper, but will not be fully committed, and all individuals and groups that purchase FEC will take their own risks.

As a new investment mode, token investment has certain risks.

- Insufficient information

As of the release date of this white paper, financial ecosystem chain (FEC) is still in the development stage, and its consensus mechanism, consensus mechanism and Rules, algorithms, code, and other technical details and parameters may vary.

- Risks caused by the loss of private key

The relevant login credentials of the FEC owner should be carefully

kept by the holder. Losing these credentials will lead to the loss of FEC. The best way to store the login credentials safely is to store the key in one or several secure places, not on the public computer.

After the FEC holder extracts his digital wallet, the only way to operate the address is the holder's relevant key (i.e. private key or wallet password). If the private key file or password is lost or stolen, the FEC related to the user's account (address) or password will not be recovered and will be lost permanently.