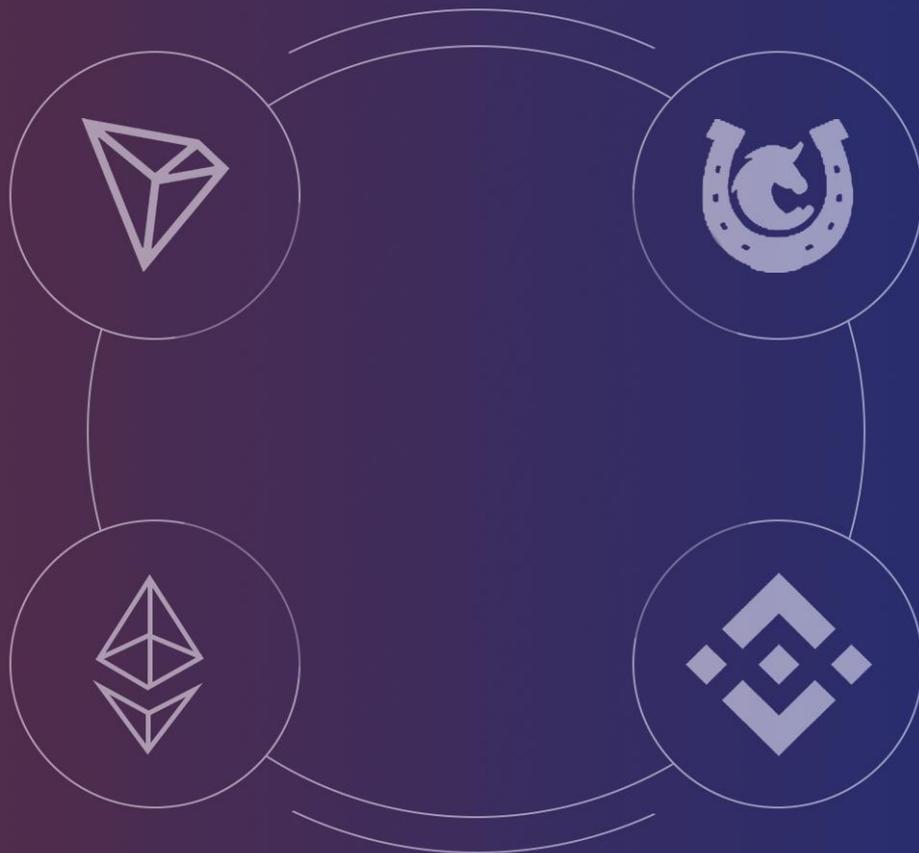


QUATRO

Smart Contract

TOBI *swap*



World's Most Innovative DeFi Ecological Platform

Contents

- I. Business Background..... - 1 -
 - 1.1 Development of Blockchain Industry..... - 1 -
 - 1.2 Continuous Rise of DEFI..... - 2 -
 - 1.3 QUATRO Ecosystem Takes Lead in DEFI 2.0 Era..... - 3 -
- II. Project Introduction..... - 6 -
 - 2.1 Project Description..... - 6 -
 - 2.2 Project Highlights..... - 7 -
- III. Technical Application..... - 10 -
 - 3.1 Technical Framework..... - 10 -
 - 3.2 TUBE Cross-Chain Concept and QBRIDGE Protocol..... - 12 -
 - 3.3 Cross-Chain "Bridge" Structure..... - 18 -
 - 3.4 Decentralized Distributed Data Storage..... - 21 -
- IV. Ecological Construction..... - 25 -
 - 4.1 Decentralized Exchange (Dex)..... - 25 -
 - 4.1.1 Decentralized Exchange Uswap..... - 26 -
 - 4.1.2 Liquidity Provider..... - 27 -
 - 4.1.3 Automated Market Maker..... - 27 -
 - 4.1.4 Liquidity Mining..... - 29 -
 - 4.1.5 Decentralized Exchange with TUBE Protocol..... - 30 -
 - 4.2 Decentralized Loan..... - 32 -
 - 4.3 Aggregator/Smart Pool..... - 34 -

4.4 Cross-Chain Contract Protocol.....	- 35 -
4.5 DEQUEST Decentralized Acquisition.....	- 38 -
4.6 Payment.....	- 39 -
4.7 Algorithmic Stablecoin.....	- 41 -
V. Platform Community Construction.....	- 43 -
5.1 Community Establishment.....	- 43 -
5.2 Community Incentives.....	- 45 -
VI. Project Roadmap.....	- 46 -
VII. Team Introduction.....	- 47 -
VIII. Exclusion Clauses.....	- 48 -
IX. Risk Warning.....	- 49 -

I. Business Background

1.1 Development of Blockchain Industry

Blockchain is quietly changing our lives in the same way of the Internet about two decades ago. Because it can record, share and trade data in the immutable, transparent and decentralized manner, it has fundamentally subverted almost all industries. From Bitcoin to blockchain invoices and then to blockchain public services, blockchain has inevitably entered our daily lives.

In the past centuries, centralized collaboration has effectively promoted the social development despite many inevitable drawbacks. With the development of digital economy in 2021, the development of DEFI (Decentralized Finance) has aroused widespread public attention.

As the world's most innovative DEFI ecological platform, QUATRO can provide revolutionary distributed digital financial services for hundreds of millions of users in the world by organic combination with blockchain, cryptography, matching engine, encrypted digital asset storage and other technologies. It has opened the window for a new world of DEFI to jointly construct a global digital asset circulation ecosystem with open and sharing, free and innovative as well as decentralized features.

1.2 Continuous Rise of DEFI

DEFI serves as the abbreviation of Decentralized Finance, which is the field of blockchain applications with the fastest growth in 2020 and 2021. It aims to subvert the traditional financial service system and promote the new era of digital economy so that all the people can achieve great economic freedom. Within the new DEFI system, users can access to financial services monopolized by authority and completely control the data of personal wealth and assets.

With the growth of blockchain assets, the demand for digital assets exchange has also gradually increased. According to the latest survey by qkl123.com in 2021, the value locked by DEFI is approximately worth US\$53.989 billion. More and more traditional financial institutions in Europe tend to adopt DEFI to promote faster and safer payment processing service.

In the future, DEFI will develop into a new financial form with the construction of digital economy and the development of mature blockchain technology. In the brand-new financial system, QUATRO will carry values with digital technology and complete the values across time and space with decentralized network construction, so that the financial rights can return to the public to achieve more efficient, inclusive and fairer financial services.

1.3 QUATRO Ecosystem Takes Lead in DEFI 2.0 Era

Since the birth of smart contracts, the concept of DEFI has been so popular that thousands of relevant projects have emerged on the market, such as decentralized exchanges (DEX), wallets, stablecoins and mortgage loans, which fully demonstrate the booming growth of DEFI ecosystem.

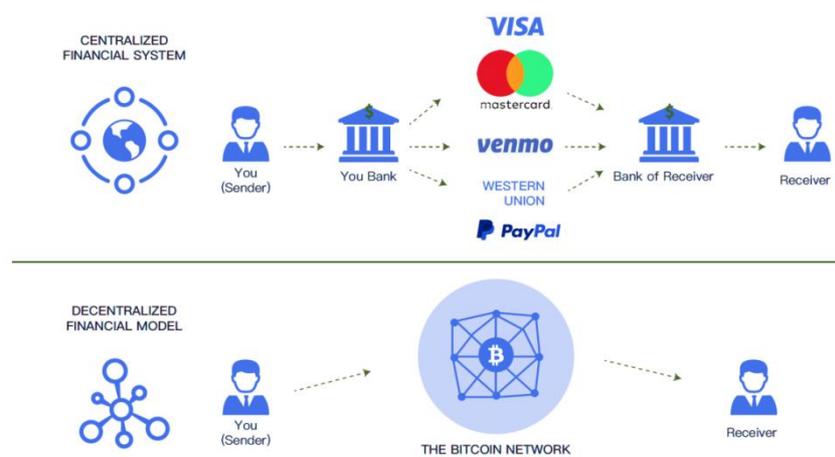


Figure 1-1: Simple Model of DEFI Ecology

However, many financial services now have to face many problems due to the existence of centralized and single institutions, which makes all transactions in traditional financial system supervised by a third party and individual financial freedom has been deprived to a certain extent. DEFI just aims to allow all the ordinary people to obtain autonomous and equal financial services.

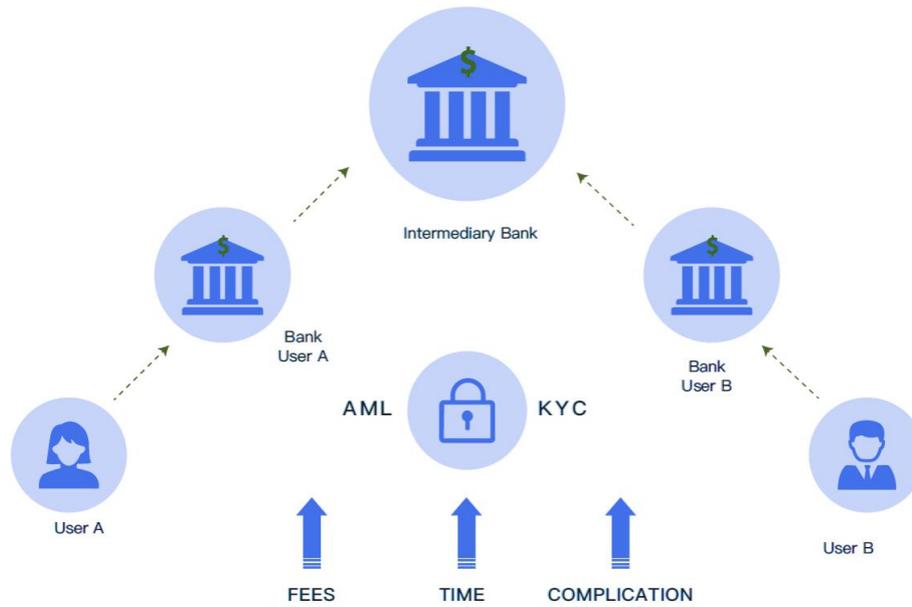


Figure 1-2: Simple Ecological Model of Traditional Finance

Drawbacks of traditional financial system are as follows:

1. Differentiated financial services;
2. Unnecessary supervision and censorship;
3. Lack of necessary transparency;

The aforesaid drawbacks have resulted in following consequences:

- a. high commission of traditional financial facilities;
- b. The lack of assets, bureaucracy and censorship caused by geographic boundaries, so that it's impossible to diversify investment portfolio and many opportunities get lose.
- c. Individuals have to bear excessive and unnecessary counterparty risks;
- d. Most financial markets are zero-sum games and very few people make money while most people suffer;

Based on the features of DeFi and the development of blockchain technology, QUATRO open financial ecosystem enables DeFi to solve the current problems faced by financial institutions through P2P finance, achieve the exchange of encrypted digital currency assets and officially lead the vigorous development of the DeFi 2.0 era!

II. Project Introduction

2.1 Project Description

As the world's most innovative decentralized financial ecological platform and the infrastructure of a new generation of DeFi, QUATRO aims to create a comprehensive smart financial ecological network for all the investors. Due to the innovative "QUATRO Protocol", it can be perfectly embedded in any DeFi applications and network systems based on multi-blockchain technology, which greatly improves transaction efficiency, reduces transaction costs, avoids the transaction congestion and high commission in current mainstream public chains.

QUATRO's unique technical features have greatly promoted the development of DeFi ecosystem and attracted more DeFi industry practitioners and developers. In the future, more projects and technologies will be derived and developed based on "QUATRO Protocol".

With great enthusiasm for smart contracts, more and more technology geeks worldwide have gathered together to establish the DAO organization and DEXTOR lab. With mature and professional decentralized autonomous system, DEXTOR Lab has quickly developed into the leading team in the DeFi 2.0 era. After five years of preparation, it has officially launched the QUATRO ecosystem with the ultimate goal

of establishing a new generation of DeFi 2.0 smart ecosystem connecting everything.

In the future, the platform will focus on the ecological construction of DeFi industry, promote smart contract to be embedded in the terminals of data analysis end and data generation and form the ecological loop of data processing to break the bottleneck in mainstream finance and DeFi fields, so that it is possible to form an exponential growth of ecological value within a short period of time.

2.2 Project Highlights

QUATRO ecological platform is devoted to the integration of the DeFi ecosystem so as to build a complete set of decentralized financial solutions to establish brand-new digital economy and financial ecology by creating the high-performance blockchain application layer smart contracts and embedding some applications scenarios such as decentralized exchange, decentralized deposit/loan, aggregators/smart pool, cross-chain contract agreement, decentralized acquisition, payment and algorithmic stablecoin.

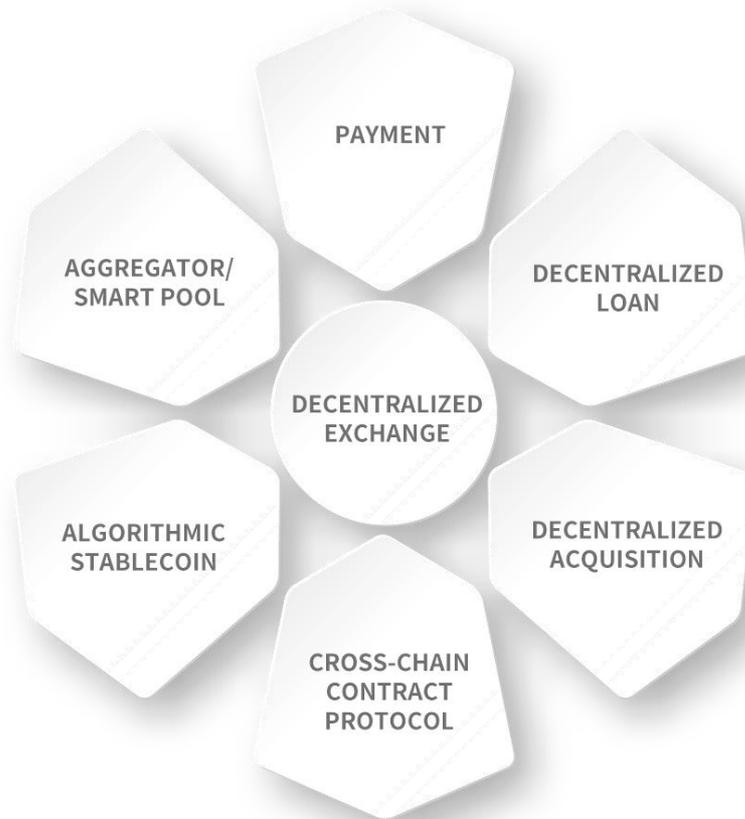


Figure 2-1: Seven Ecosystems of Smart Contracts

QUATRO will conduct cross-space, cross-regional and cross-chain value transfer with "digitalization + intelligence" to achieve the ultimate value of DeFi 2.0. It adopts the latest multi-factor security mechanism to ensure the exchange security in all aspects. Taking the technology and financial innovation as the core driving force, it can accelerate the reconstruction of new financial form of value circulation and create a complete DeFi infrastructure.

For the sake of better autonomous management of global finance, we will fully embed "QUATRO Protocol" to improve the construction of full ecological platform and execute smart contract by introducing

computer language. We will realize the decentralization of financial transactions and establish platform consensus mechanism to build trust on the financial ecological consensus in autonomous communities.

III. Technical Application

3.1 Technical Framework

QUATRO conducts the ledger connection and value exchange in different blockchains in the distributed manner. With the cutting-edge theory of cryptography, it can create universal cross-chain protocol and distributed ledger recording cross-chain and intra-chain transactions. Either public chain, private chain or consortium chain can be embedded into QUATRO smart contract at low cost to realize the connection of different blockchain ledgers and the transfer of assets across ledgers. It can support the smart contract cross-chain interactions and protect the privacy of smart contract token transactions.

Based on QUATRO smart contract, any institution or individual can open its own business window and provide services such as deposit and loan, exchange, payment and settlement based on digital assets. By means of the blockchain infrastructure provided by the platform, more people can enjoy more diversified financial services based on digital assets. Technically, QUATRO serves as an infrastructure providing cross-chain asset transfer in different blockchains, a distributed ledger capable of the interconnection with different blockchains through cross-chain protocols, full records of cross-chain transactions and maintenance of intra-chain transaction details. QUATRO smart contract will support the mainstream

public chains and consortium chains as well as their mutual interactions across chains to map out new assets.



Figure 3-1: Personal Windows of QUATRO Smart Contract

DEXTOR Lab aims to build a safe and reliable decentralized storage network to achieve data decentralized storage, data security verification, market-based storage transactions and operation of cognitive computing based on QUATRO network, so as to establish effective data storage and analysis capabilities for the DeFi ecosystem. QUATRO can ensure the efficiency and reliability of network transactions, so that the decentralized transactions can be completed on the chain by connecting smart terminals to the transaction market.

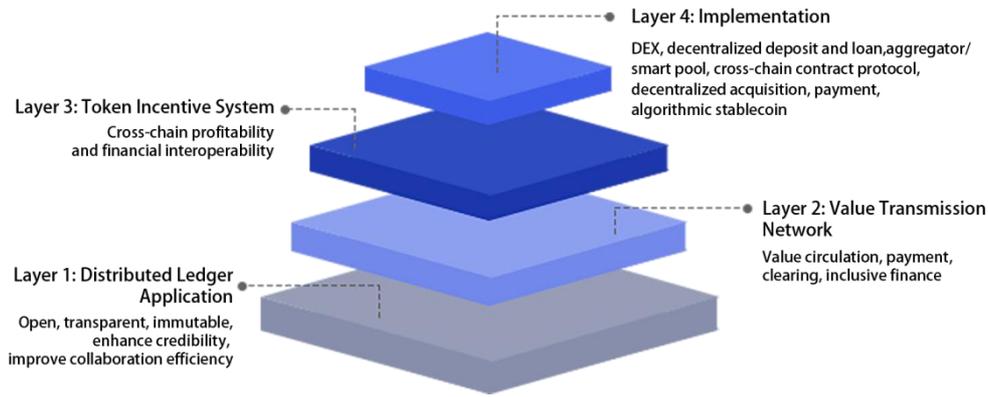


Figure 3-2: Structure of QUATRO Network System

3.2 TUBE Cross-Chain Concept and QBRIDGE Protocol

Since the birth of Bitcoin, the blockchain has greatly changed the whole world. Unfortunately, although different blockchains have certain number of users and various DApps such as some public chains like Bitcoin and Ethereum, the overall blockchain network is actually in the state of isolation. Each blockchain system is just like an island of information incapable of cross-chain activities or mutual communication.

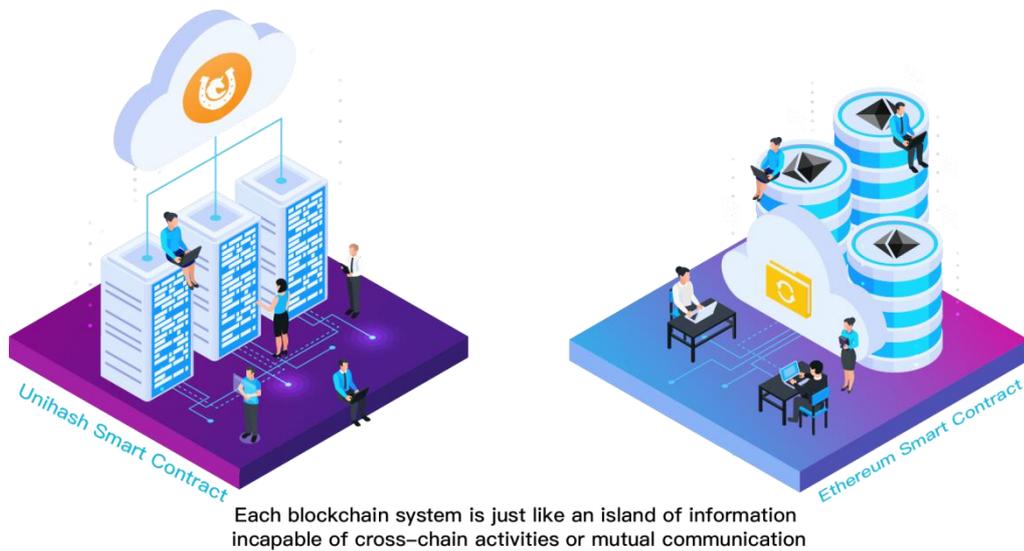


Figure 3-3: Information Islands of Blockchain System

All these problems have greatly prevented the ecological development of DeFi 2.0. For example, the Ethereum smart contract cannot access to the circulation of Bitcoin Token, which greatly affects the performance and scalability of blockchain. Therefore, it's the inevitable law and ideal result of blockchain development to build a world capable of supporting multiple blockchain networks in parallel so that each chain can perform its duties for a specific scenario and communicate with each other.

However, such a concept does not develop very smoothly. Nowadays, only the centralized exchange can realize high-performance cross-chain transactions, although the resulting monopoly and centralization bring more harm than benefits. Certainly, it's also contrary to the DeFi 2.0 of QUATRO ecological platform.

Although some side chains such as RSK and Loom are trying to solve this problem, they either have very limited application scenarios or cannot provide a universal interface. Ideally, the distributed applications and smart contracts developed on Ethereum and EOS should be allowed to perform atomic-level transactions and information exchange with the assets and data in other blockchains, so as to achieve the expected extensibility and full implementation in modern business and Internet society.

T Protocol -- TRON Smart Contract

TRON efficient smart contract is realized based on the aspects as follows:

1. TRON supports Java with mature developer community, high development efficiency and many suitable scenarios
2. Efficient consensus mechanism.
3. Good database structure and account system, which can better help users change complex ideas and models into application entities.

Due to many advantages of TRON, we aim to build an ecosystem platform based on TRON where everyone can participate and benefit from it. The users can reduce various costs and improve convenience of life by means of the TRON network and various DAPP functions. The developers can deploy DAPP on the TRON network and maintenance nodes to support the operation of TRON network so as to get profits.

For not only the users and developers but also the maintenance nodes on TRON network, all will participate in the construction of TRON platform ecosystem and contribute to the prosperity with corresponding rewards.

U Protocol-Unihash Smart Contract

The underlying main chain technology is based on POW to achieve complete decentralization and free access to nodes. Based on the POW

mechanism, a random number satisfying the rules is generated during transaction process so as to obtain the ledger right, send out the data to be recorded in this round and store it together in other nodes of the entire network after being verified.

At present, the Unihash smart contract has a big and complete ecosystem and the tokens developed on main chain include: UNIE, UNIGRAM, YOUBOCOIN, Hashbrid Coin, PQoin, DES Coin, UHCLLOUD Coin, etc. The implemented applications developed by the Unihash smart contract include cryptocurrency wallet: Neuron Wallet, POWER Proof of Work Equilibrium Reserves, D.E.S cross-chain wallet, etc.

Unihash owns very healthy ecological development, a large number of users and exclusive community -- "Unihash Genesis Community". In the future, the founding team will reach a consensus with other main chains to achieve mutual traffic, such as ETH, BTC, BINANCE, HUOB, TRON, etc.

B Protocol -- BNB Smart Contract

BSC refers to Binance smart contract platform for decentralized applications (Dapps). Specifically, the BSC network adopts the modified Proof of Stake (PoS) consensus known as the Proof of Stake (PoSA) algorithm. In short, it means that BSC is concentrated on 21 validators

who pledge BNB and are responsible to verify the blocks produced by BSC network.

With the features of high throughput and low latency comparable to the centralized systems, BinanceDex is well-known for the high transaction speed and good user experience. Based on the professional financial product module of Binance Centralized Exchange, BinanceDEX tries to use the advantages and concepts of decentralized exchange to solve a series of pain points such as false currency increase and opaque user assets in some centralized exchanges and return the control of assets to the users.

It adopts the PoSA (Proof of Stake Authority) consensus algorithm, which combines the functions of Delegated Proof of Stake (DPoS) and Proof of Authority (PoA) mechanism. Being built on a network of 21 verification nodes, it's capable of block generation within seconds so as to create high-speed infrastructure for the DeFi Protocol.

E Protocol--Ethereum Smart Contract

Instead of the common contract in reality, the Ethereum smart contract is a section of program codes stored and triggered to execute on blockchain. These codes can achieve certain predetermined rules, so they are the "autonomous agent" in the Ethereum execution environment.

proxy". The account and contract of Ethereum are as shown in the figure below.

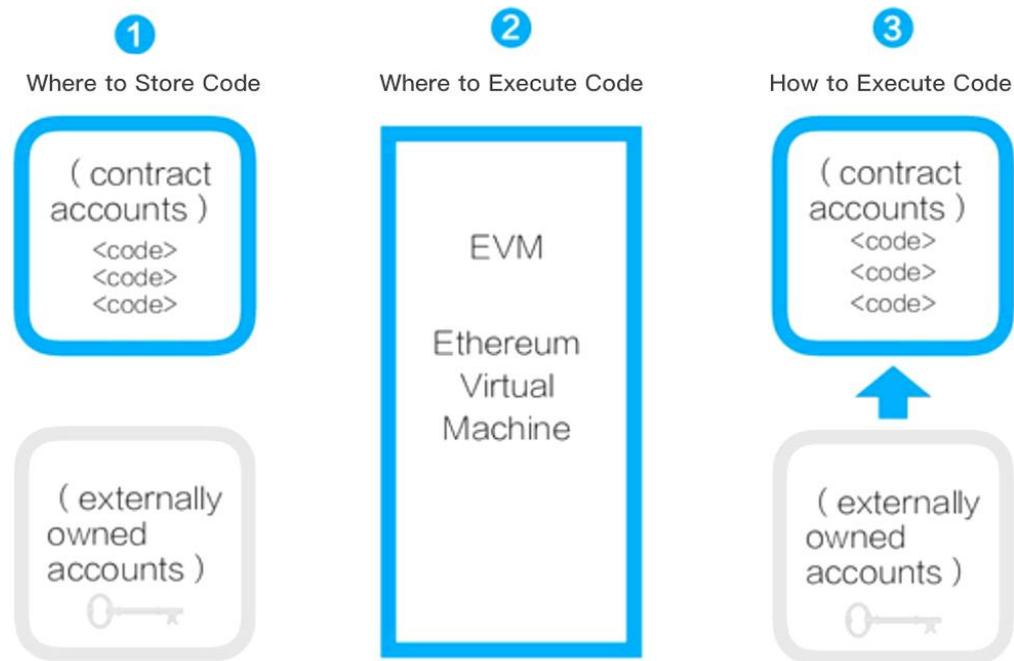


Figure 3-4: Ethereum Account And Contract

Ethereum adopts very concise design in smart contract.

On Ethereum blockchain, anyone can develop smart contract whose codes are stored in Ethereum accounts. The accounts stored with codes are known as contract accounts. Correspondingly, the accounts controlled by the key are known as externally owned accounts.

Ethereum smart contract runs on the Ethereum Virtual Machine (EVM).

Contract account cannot start and run its own smart contract independently. To run a smart contract, the externally owned account needs to initiate a transaction to contract account so as to trigger the code execution.

One major difference between Ethereum and Bitcoin is that the former provides a programming language with Turing Completeness (Solidity) and corresponding operating environment (EVM). The so-called Turing Completeness means that the scripting programming language can run all possible calculations while Bitcoin's UTXO model and script can only run some calculations.

Due to aforesaid reasons, since the smart contracts of different main chains are incapable of interaction, QUATRO proposes a heterogeneous "bridge technology" -- the QBRIDGE Protocol. Due to its parallel cross-chain structure protocol with potentially different features, it enables different cross-chain protocols or chains to support anonymity and serve specific scenarios. Both private chains and alliance chains with interface structures can access the QUATRO ecological platform network through the bridge technology of QBRIDGE protocol.

Now, all the four TUBE protocols have been embedded with QBRIDGE smart contract so as to realize the interchange.

3.3 Cross-Chain "Bridge" Structure

On the premise of ensuring security of each blockchain, QUATRO communicates and connects each independent chain through the "QBRIDGE Protocol", which plays the role of a "bridge" to connect various chains in a secure manner. For example, the bridge connection to

Ethereum and Bitcoin will allow the QBRIDGE protocol to access to the smart contracts on Ethereum.



Figure 3-5: QUATRO Cross-Chain "Bridge" Structure

Both digital assets and mapped digital assets represent the proof of equity. Therefore, the asset verification node and the mapped node will reach a Nash balance. The bridge connection also has ways to improve the security of its own chain, so the cornerstone status of platform asset will not be affected in the QUATRO system.

Cross-chain technology can realize information interaction between dual main chains and ensure high scalability, security and efficiency in the system. Meanwhile, it can increase the TPS of on-chain transactions to meet the requirements of high-speed, high-frequency and low commissions; Whether the high concurrency and TPS business or the

high scalability and strong intelligence business, the QUATRO protocol can cope with them with full competence.

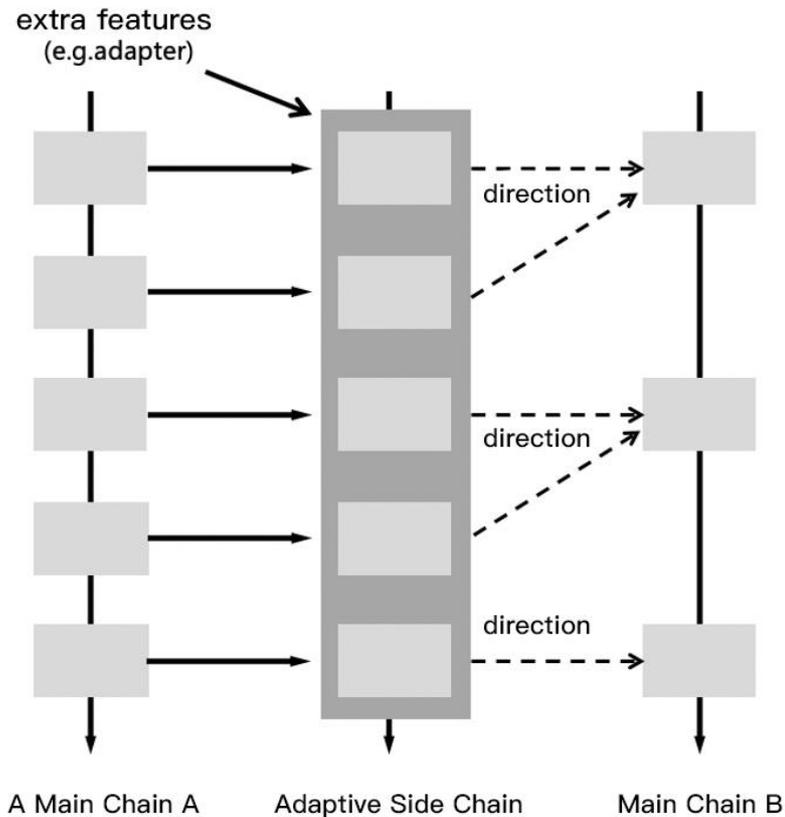


Figure 3-6: Information Exchange between Dual Main Chains

Cross-chain interaction can be referred to as a bridge between each blockchain (e.g. the adaptive side chain in the figure) to realize the value conversion and information interaction between chains. By means of the side chain, interaction between two main networks or even more main networks can be realized. From the perspective of technology only, blockchain is a distributed ledger while in terms of the commercial level, it's the extension of value network. More effective nodes in network will

result in greater values. Therefore, cross-chain technology is needed to expand to different blockchains so as to build a huge network of values.

3.4 Decentralized Distributed Data Storage

As the important value support for QUATRO decentralized financial infrastructure, distributed storage provides the most powerful security guarantee for financial data storage. Due to the limited storage capability of virtual machine, it cannot meet the users' needs for establishing static links or storing original documents on the chain. Distributed storage can store data outside the chain and provide appropriate choices for the needs in different scenarios or the choices between private storage and public access. Therefore, the privacy and security of financial data will also be seriously considered based on high storage efficiency.

QUATRO accelerate the research and development based on the decentralized storage by a third party. To ensure the safety and privacy of users, the decentralized storage by third party should adopt serverless interactive system as storage architecture solution. With regard to the way to implement distributed storage, QUATRO demands that DHT (distributed hash table) be adopted as the P2P communication structure, which is also a very mature technical solution for distributed storage.

QUATRO takes the 3rd-generation DHT-Kadmilia as the structure of P2P network. The whole network is designed with the KeyValue

method. The key is used for precise search and the final download through multiple distance jump addressing. In the worst case, in the Kad network with 2^n nodes, the node or value to be searched can be found within at most n steps. In addition, QUATRO will also randomly change multiple, heterogeneous storage systems and other security strategies to increase the difficulty of hacker attacks, so as to improve the security and privacy of the storage system.

DHT-Kademlia Overviews and Algorithm Principle:

DHT is also known as the distributed hash table which is used to store a large amount of data. In the actual situation, the hash value is directly calculated for "each business data" stored, then the hash value serves as the key while the business data serves as the value.

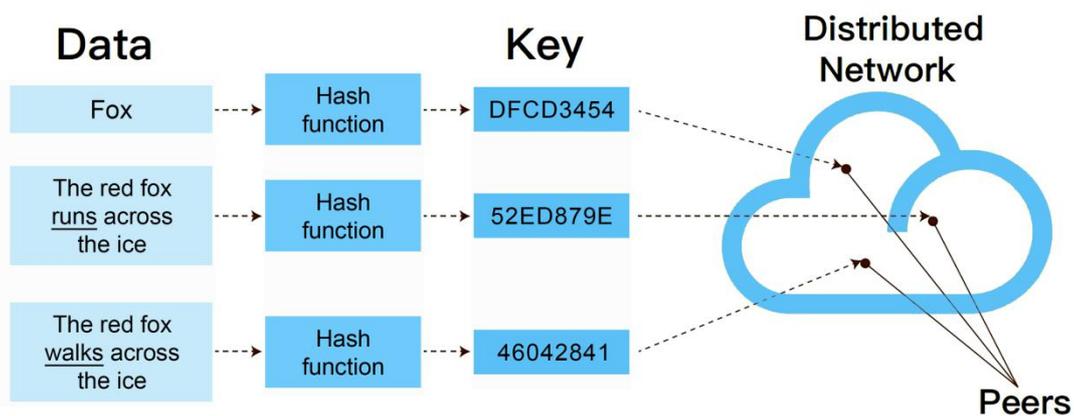


Figure 3-7: Diagram of DHT

Assume the Kademlia network $X_1 \dots X_n$ composed of n nodes, and write IDs as a sum string consisting of 0 and 1 in order from high bits to low bits. We fully express $X_1 \dots X_n$ in a binary trie, which is an ordered

tree data structure invented by Fredkin. The path corresponds to the bit strings: 0 corresponds to the left substring, and 1 corresponds to the right substring. On the path of length d to the leaf (end node of trie structure), the id or value with leaf status will be encountered. Therefore, the height of binary trie is d and the distance from root to root is d , so there are exactly n leaf nodes.

Assume $x=(x_1,\dots,x_d)$ and $y=(y_1,\dots,y_d)$ with two ids (leaf) in the trie. Set $l(x,y)$ as the length of root path to the lowest common ancestor data of x and y , e.g. the length of common prefix of x and y , we will get:

$$l(x,y)=\max\{i: x_1=y_1,\dots,x_i=y_i\}$$

It's easy to verify the distance x and y to the boundary of $l(x,y)$

$$2^{d-l(x,y)-1} \leq \delta(x,y) < 2^{d-l(x,y)}$$

Therefore, if we divide $\{1,1\}^d \setminus \{x\}$ according to the distance to x , as shown below

$$D_i(x)=\{y: 2^{i-1} \leq \delta(x,y) < 2^i\}, \quad i=1,\dots,d$$

Then $D_i(x)$ is equivalent to a subtree in the trie, where each node shares a common prefix of length i with x :

$$D_i(x)=\{y: l(x,y)=d-i\}, \quad i=1,\dots,d$$

Assume $B_i(x)$ as the id set corresponding to $D_i(x)$ in k -bucket(x). In our model, suppose that if $|D_i(x)| \leq k$, then $B_i(x)=D_i(x)$. Otherwise, for all $A \subset D_i(x)$ and $|A|=k$, we will get:

IV. Ecological Construction

In the decentralized financial market, the DeFi layout in the QUATRO ecosystem includes seven parts: DEX, decentralized deposit/loan, aggregator/smart pool, cross-chain contract agreement, decentralized acquisition, payment and algorithmic stablecoin, on which it can create the future trends and form unprecedented innovation.

4.1 Decentralized Exchange (Dex)

As the world's most innovative DeFi ecological platform, QUATRO will create four Dex in the ecosystem: Tswap, Uswap, Bswap, and Eswap through the TUBE protocol. Based on the liquidity mining on the four different main chains, new digital assets TUBE 1, TUBE 2, TUBE 3 and TUBE 4 will be obtained for mutual cross-chain transaction so as to create interactive network within the ecology. It will support automated market makers in various Dex to ensure the liquidity of the liquid pool.

With the Unihash Smart Contract, the role of centralized exchange will gradually be replaced, and users can realize the circulation of funds without mortgaging the assets in the centralized exchange. Without depending on the order book, automated market makers can determine the transaction price of assets through algorithmic equations and act as the transaction counterparty for the users.

4.1.1 Decentralized Exchange Uswap

With the smart contract on-chain system on Unihash blockchain, the automatic liquidity protocol can be realized based on the "constant product formula". Uswap will activate the liquidity mining function to allow users to freely receive the mapped platform asset TUBE 1 with free access after storing Unihash or Unigram. Moreover, it's the same for other digital assets on the Uswap exchange. The number of token pairs is the best path for specific pairs in the trade. Users can pledge tokens to the designated trading pairs on Uswap to efficiently produce TUBE1 or other corresponding assets through on-chain liquidity mining.

In this way, the problem of insufficient liquidity at the beginning of Uswap startup will be avoided. TUBE 1 can be obtained by pledging in Unigram-Unihash trading pairing. By mortgaging the tokens such as Unigram and Unihash, a huge demand for pledge will be created. Limit the TUBE 1 production to push the value of Unihash ecological tokens.

Meanwhile, Uswap supports automated market makers, which provides the depth of transaction flow by means of the algorithms. It means that the price of asset is embedded in the automated market maker's product, which will only change when a transaction occurs, and it's less easily be manipulated by the external factors. It can be achieved only through smart contracts without the manual intervention in the transaction.

4.1.2 Liquidity Provider

Due to the lack of space liquidity and the large transaction volume, the price of DeFi token is more likely to fluctuate. The big fluctuation may create a vicious circle so that the tokens with large price ups and downs are unlikely to be accepted by the exchanges. Although rapid growth has been achieved in the AMM field, the problems such as inefficient funds, multi-currency holdings and temporary losses must be resolved in order to establish the required infrastructure to attract large-scale liquidity providers from the traditional industries.

Therefore, Uswap will adopt the model of automated market makers to gather the liquidity of market makers and traders by algorithmic operations to ensure the capital pool can be continuously expanded. According to the algorithm, transactions on the platform will be conducted by setting parameters. Each automated market maker exchange will store the buyer's and seller's funds in a liquidity pool.

4.1.3 Automated Market Maker

Automated market makers use the "Money Robots" algorithm in virtual markets such as DeFi to imitate the trading behavior of traditional market makers. They do not specify the selling price or the buying amount. On the contrary, the automated market maker DEX gathers the

crypto assets into a liquidity pool and adopts deterministic algorithms to make the markets. According to the algorithm, some predefined criteria will be adopted to provide quotations for the buyers, although each automated market maker exchange has its own algorithm. AMM can not only improve market liquidity like traditional market makers, but also own the advantages of high safety and reliability without the geographical restrictions and the need of custody.

It has fundamentally changed the way users trade encrypted currencies. Unlike the traditional model of order book transaction, both parties of AMM transactions are interacting with the on-chain liquid asset pool. The liquidity pool allows the users to seamlessly switch between the tokens on the chain in a fully decentralized and non-custodial manner. The liquidity provider can earn passive income through transaction fees based on the percentage of their contribution to the asset pool.

Uswap adopts constant product market maker (AMM), AMM is based on the function $x*y=k$, which determines the price range of two tokens based on the available quantity (liquidity) of each token. To maintain a constant product K , when the supply of tokens X increases, the supply of tokens Y will correspondingly decrease, and vice versa. When drawing this function, the result is presented in a hyperbola. The liquidity is always available, but the price will get higher and higher, so at both ends it will approach infinity. When the user performs the SWAP

function at the Swap, the pricing price in the pledge pool will be affected according to the constant product AMM formula $x*y=k$.

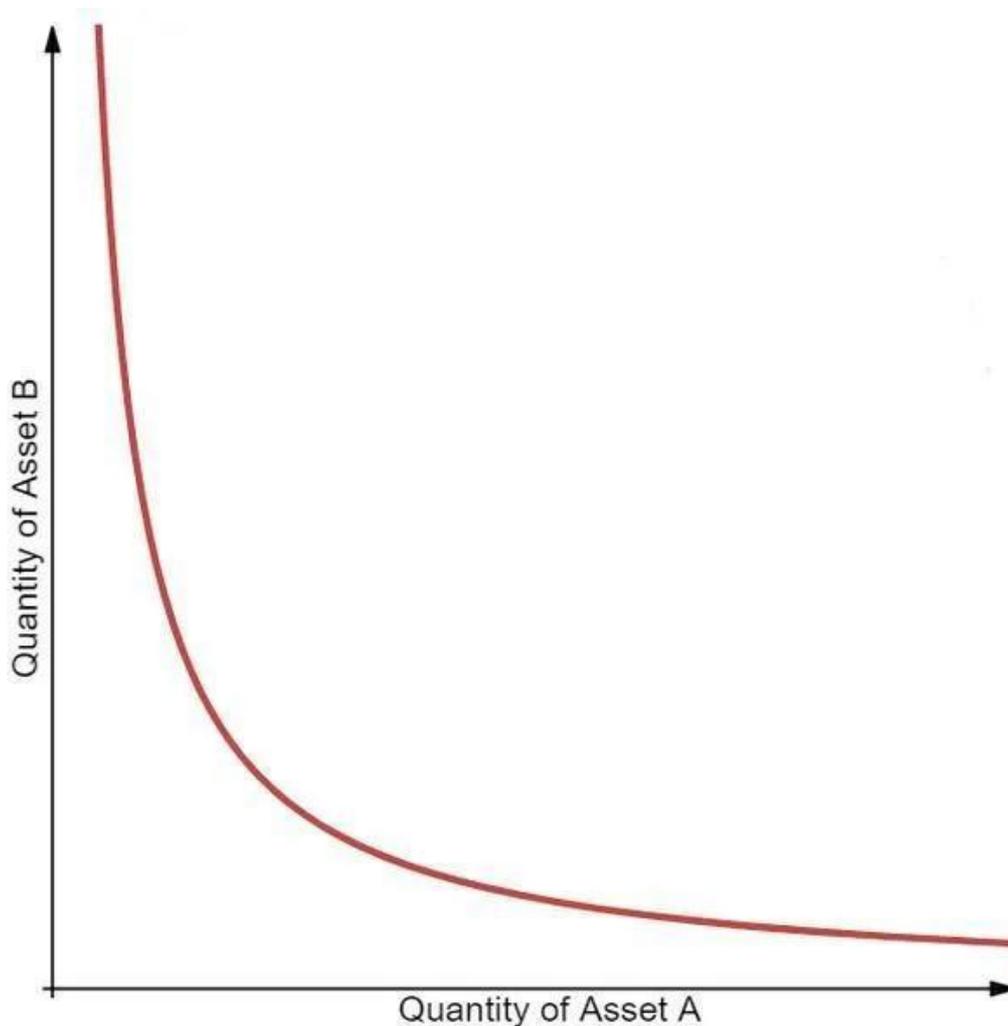


Figure 4-1: AMM Function

4.1.4 Liquidity Mining

The DeFi liquidity mining mainly includes the products on the Ethereum blockchain, which gains profits by providing liquidity for DeFi products on the Ethereum. Simply speaking, people participate in mining after depositing certain token assets. The reason why it is called mining is also due to the conventional name in the Bitcoin industry.

The profits of liquid mining include governance tokens, commissions, etc. With regard to the liquidity mining, people can obtain passive profits simply by depositing tokens. However, if they want higher returns, proper management should be indispensable. Different protocols bring different rates of return, and even the same protocol may result in various benefits between different currency markets or token pools.

The income of liquidity mining is determined by multiple factors. Since the number of tokens issued in each time period (daily or weekly) is usually fixed, the income is mainly determined by the price of reward tokens, the weight of liquidity itself and the proportion of the total liquidity.

4.1.5 Decentralized Exchange with TUBE Protocol

QUATRO ecological platform has created four smart contracts with TUBE protocol to be applied on four blockchains. Apart from the aforesaid Unihash with Unihash Smart Contract, there're three other smart contracts, e.g. T (TRON), B (BNB) and E (ETH), which have been applied to four blockchains.

The smart contract on-chain system on each blockchain implements the automatic liquidity protocols based on the "constant product formula". In the end, DEX will activate the "SWAP" function to allow users to freely receive the mapped assets and use them elsewhere on the chain.

"QUATRO Protocol" will enable the pairing number between any tokens to find the best path to trade and efficiently produce DEX platform coins through the on-chain aggregator. According to the SWAP function, the users can freely deposit tokens for exchange with the token pool instead of other users since the pool can provide the liquidity to realize the transaction of digital assets. Whenever someone completes the asset transaction, the pledge pool price will adopt AMM calculation according to the advanced hybrid constant function to achieve specific behaviors by combining a variety of functions and parameters, such as adjusting the risk exposure of liquidity providers or reducing the slippage of transaction price.

Meanwhile, the four smart contracts will achieve interconnection through the DeFi on QBRIDGE, so that TRON, Unihash, BNB and ETH can be interactively mapped.

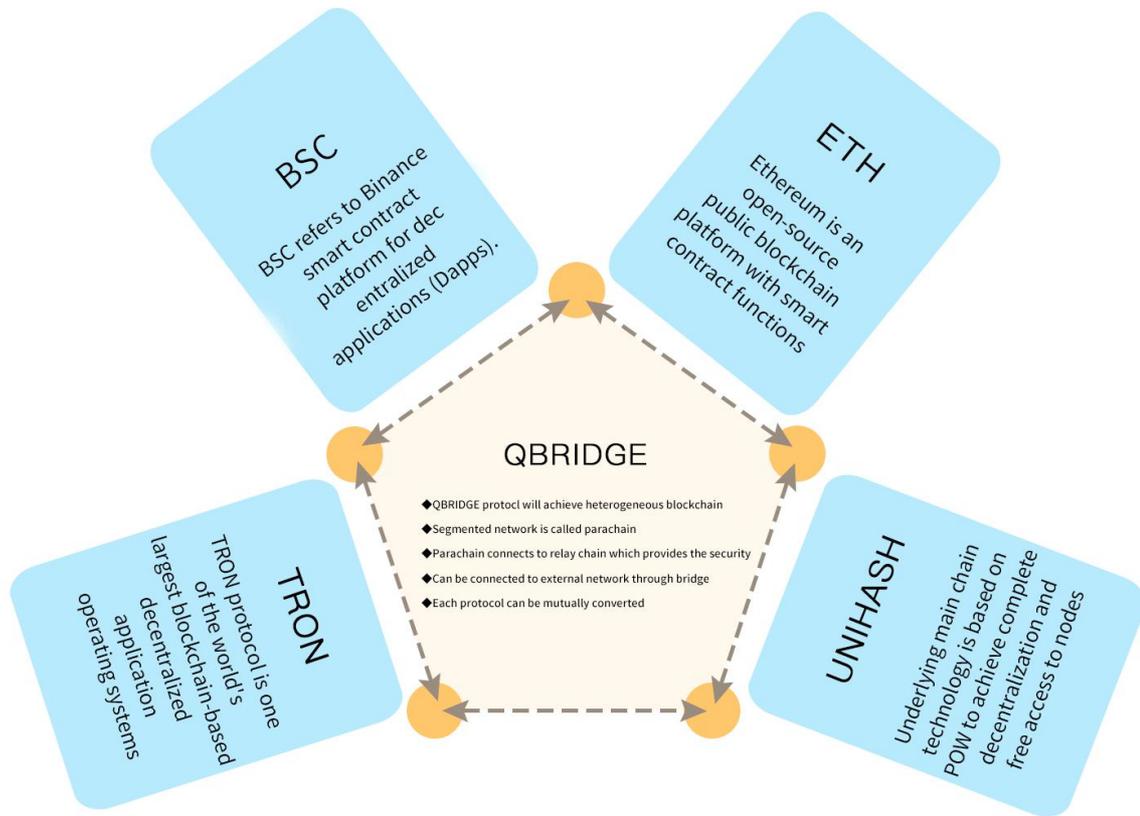


Figure 4-2: QBRIDGE applied to multiple blockchains

4.2 Decentralized Loan

In the process of most traditional loans, the centralized institutions, such as banks, always play the indispensable role. These institutions often have disadvantages such as complicated procedures and long period of qualification reviews. Moreover, the institutions treat the lenders and borrowers separately to earn commissions and interest differentials. In this case, the lender's profits have been greatly reduced while the borrower's expenditures have been correspondingly increased, which is actually a lose-lose situation.

The P2P products, which have been very popular on Internet in the past years, are also the peer-to-peer mortgage. However, the P2P products have suffered from unexpected accidents recently. With regard to the unsuccessful revolution against the centralized institutions, the root reason is nothing but the opaque operations which may result in funds embezzlement, poor reviews and high rate of bad debts.

The decentralization, openness and transparency of blockchain technology can perfectly solve this problem. Through the peer-to-peer mortgage platform on the blockchain network, the account transfer is so fast with high level of transparency that the users can clearly trace the transaction of each fund.

As for the peer-to-peer mortgage and loan service on QUATRO platform, the whole transactions are completed by smart contracts, which can be traced on the chain with high level of openness and transparency. In QUATRO system, the borrower needs to mortgage the digital assets whose interest will be determined by the smart contract. The lender can independently select the borrower by checking his loan form and make decisions based on real data during the process. This mechanism can greatly reduce the loan risks and provide the borrowers with higher level of security. Meanwhile, the saved costs can be used as the interest to rebate so that the QUATRO platform is more competitive than the traditional centralized financial platforms.

QUATRO platform can support BTC, USDT, ETH and other digital assets to bring the fast and convenient mortgage procedure. With the mechanism of matching mortgage and credit deposit, it's capable of fast matching, instant transfer, daily interest and prepayment. Both mortgage and investment will not be affected by the market situation. The efficient and convenient operations can effectively protect the principal security of the investors.



Figure 4-3: QUATRO Mortgage Mechanism

4.3 Aggregator/Smart Pool

Aggregator can be simply referred to as the service-integrated platform which can provide integrated services such as data aggregation, transaction aggregation, revenue aggregation, financial aggregation, etc. By means of the composable and permission-less features of the DeFi, it can constantly look for better revenue strategies to help users with more revenues. QUATRO aggregator/smart pool is integrated with multiple DEX protocols such as Airswap, Uniswap, Uniswap2, Kyber, Curve,

Oasis, 0x and dForce Swap so as to enhance liquidity and provide users with the best trading path.

QUATRO platform, which supports multiple DeFi protocols, can automatically transfer between various DeFi protocols providing liquid mining to help users with higher returns. The smart contract can be connected to other mortgage projects. When we deposit our digital assets in the aggregator, the smart contract will automatically find and transfer the assets to the project with the highest rate of return and the mortgage funds are provided to obtain income. The smart contract will be automatically connected to the contracts for lending and trading projects to choose the one with the highest yield to conduct the investment. All the resulting profits will be collected in a pool and distributed to users according to certain rules.

4.4 Cross-Chain Contract Protocol

Since the cross-chain transactions need to be optimized to match the block generation speed on different chains, we designed QBRIDGE mechanism to solve this problem. Firstly, the cross-chain contract protocol. According to the block generation speed, we divide the chains into different layers provided with proprietary adaptive chain or module to promote cross-chain transactions in the layer. Secondly, the cross-layer guarantee mechanism. With regard to the cross-chain transaction at

different layers, it's an effective solution to set the slower chain as the main chain. In this way, the interactive exchange function in the ecosystem is connected by the four TUBE protocols.

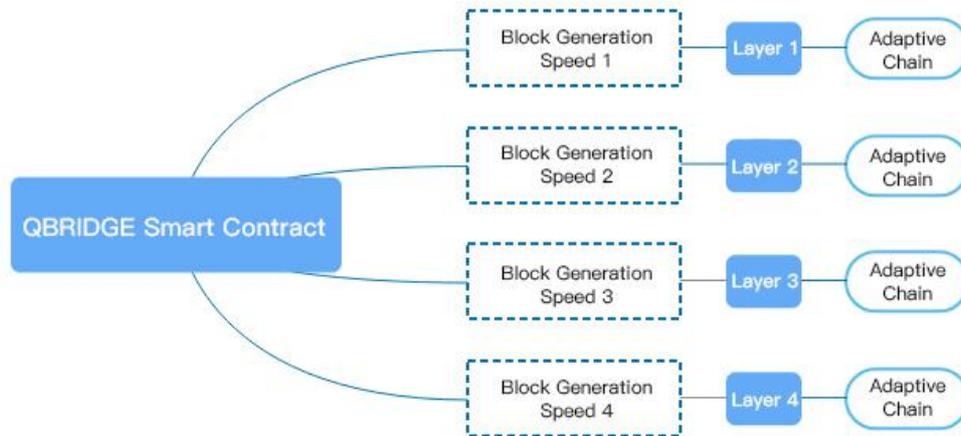


Figure 4-4: QBRIDGE Connection

"QBRIDGE" protocol is a fragmented blockchain, which means that multiple chains are integrated within one network so that they can trade and exchange data between different chains with security protection. Multiple transactions can be processed by bridging multiple specified chains to one fragmented network, which breaks the bottleneck of successive transaction process in the traditional network.

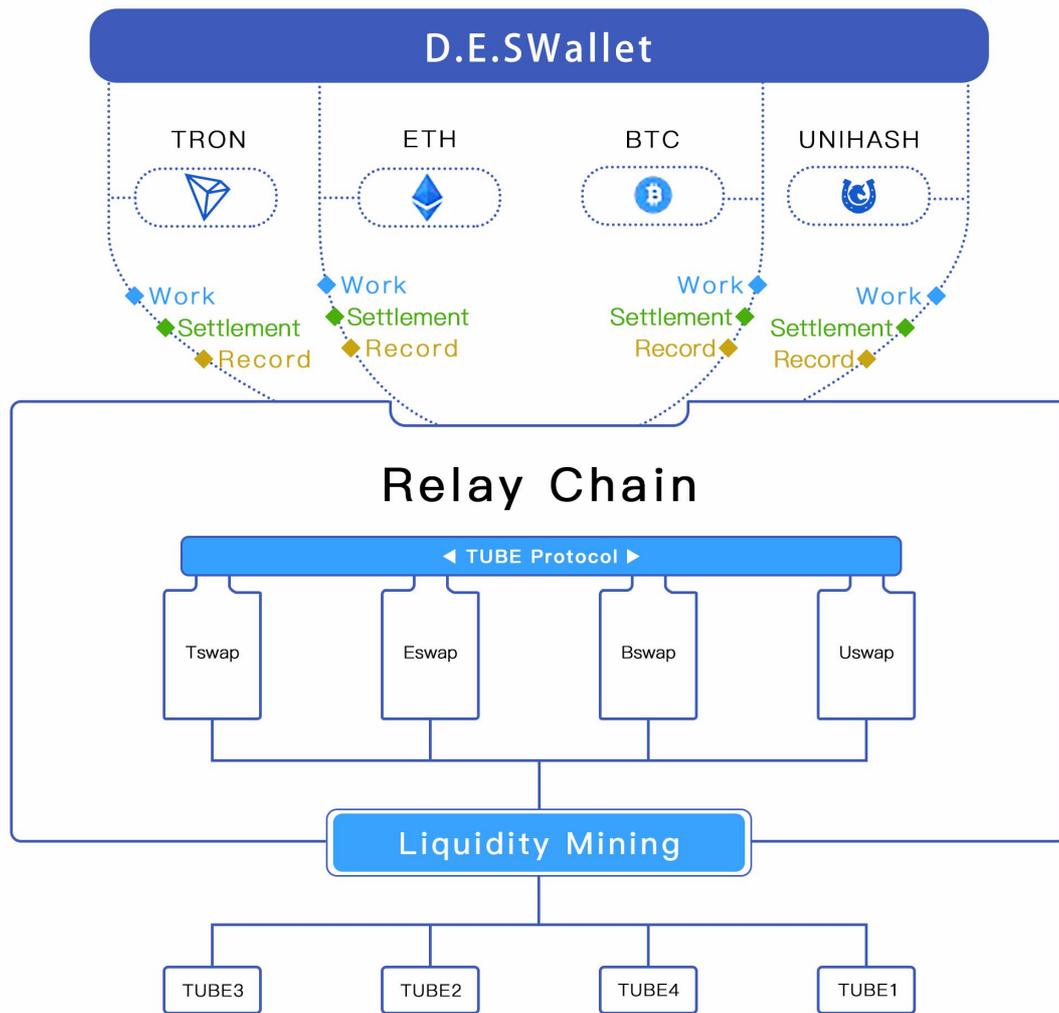


Figure 4-5: QBRIDGE Protocol

In the future, "QBRIDGE" protocol will be further expanded by embedment in relay chains, which will increase the number of fragmented blockchains to added in the network. Through cross-chain composability and message transfer, the fragmented blockchains can communicate with each other, exchange values and share functions, which opens the door to a new round of innovation, truly implements the concept of blockchain empowering the real economy and develops the platform as the cornerstone of digital economy.

4.5 DEQUEST Decentralized Acquisition

DEQUEST, the decentralized acquisition system of QUATRO ecological platform, will be committed to realizing the community-based profits through the DeFi platform. It will carry out incentives and decentralized governance through DEQUEST system as well as obtain community incentives by means of some build-in functions such as transactions, pending orders, invitations and pledges, so as to increase the depth of pledge pool and enhance the stability of the ecosystem. Meanwhile, it will develop different smart contracts based on the TUBE protocol, so that every DEX will be equipped with the DEQUEST protocol.

Ecological process of decentralized acquisition 1:

Mortgage tokens to become liquidity provider -- obtain LP tokens -- designate matching pledge pool -- Start liquidity mining -- Obtain TUBE1 tokens (depending on daily output and number of pledged tokens) -- TUBE1/UETH (Swap is optional) --Swap to TUBE1—Dequest.

Ecological process of decentralized acquisition 2:

DES wallet binding -- Recharge Ethereum – Enter Dequest – exchange to UETH -- TUBE1/UETH (Swap is optional) – Swap to TUBE1 / Swap to UETH and deposit in DES wallet.

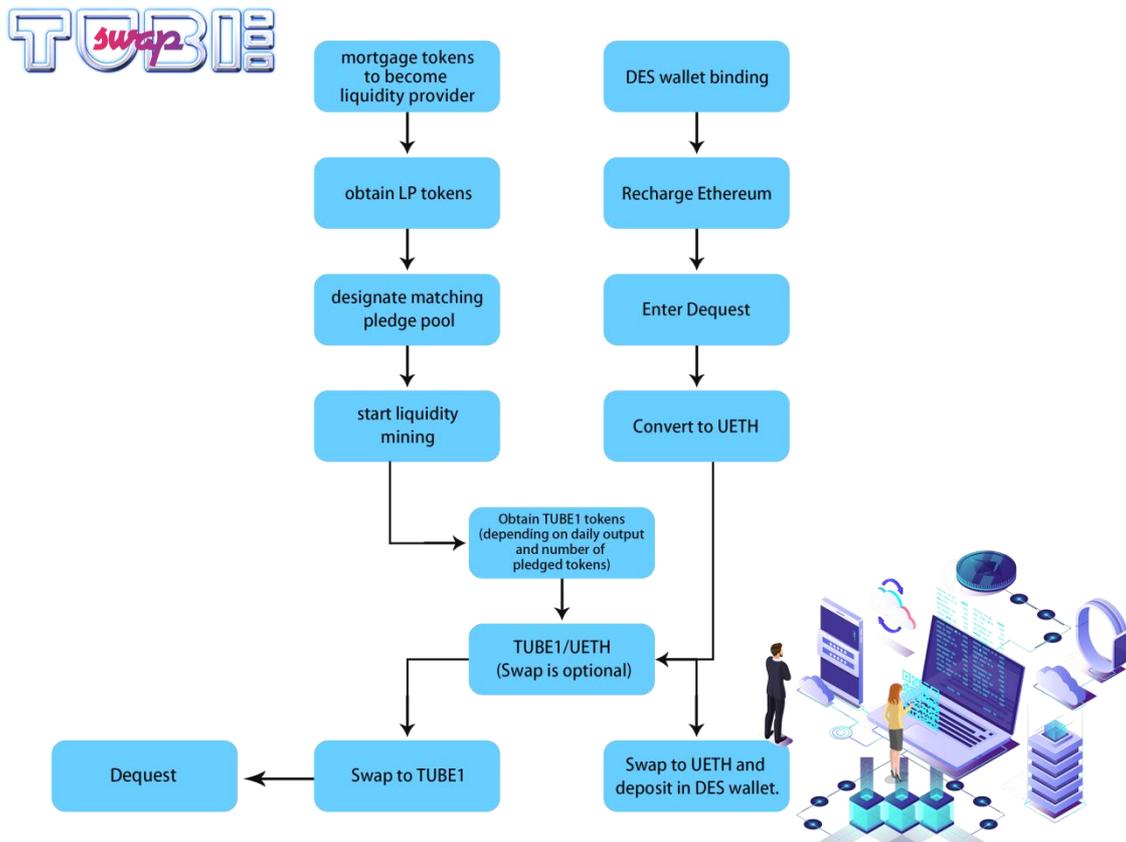


Figure 4-6: Ecological Process of Decentralized Acquisition

4.6 Payment

We will build mobile wallet, D.E.S decentralized wallet, on the QUATRO ecological platform. With unique decentralized autonomous management system, D.E.S wallet will support the payment system with four TUBE protocols. It has supported digital assets of Unihash and ERC now and in the future, it will support Bitchain, TRON and other main chains to form a multi-chain and cross-chain wallet with the four TUBE

protocols as the media. D.E.S can provide cross-chain wallet services for fully decentralized ecosystems.

Ecological Process of Swap Payment 1:

DES main wallet (coin transfer) -- Enter DES (Defi wallet) -- DES Connection to USwap -- Swap (Exchange)/Pledge Pool -- AMM (start AMM mode) -- Pool price changes -- Swap produces 1% commission to pay as LP profits.

Ecological Process of Swap Payment 2:

DES main wallet (coin transfer) -- Enter DES (Defi wallet) -- DES Connection to USwap -- Swap (Exchange)/Pledge Pool -- Pledge tokens to become liquidity provider -- Obtain LP commission as profits -- Obtain liquid mining tokens

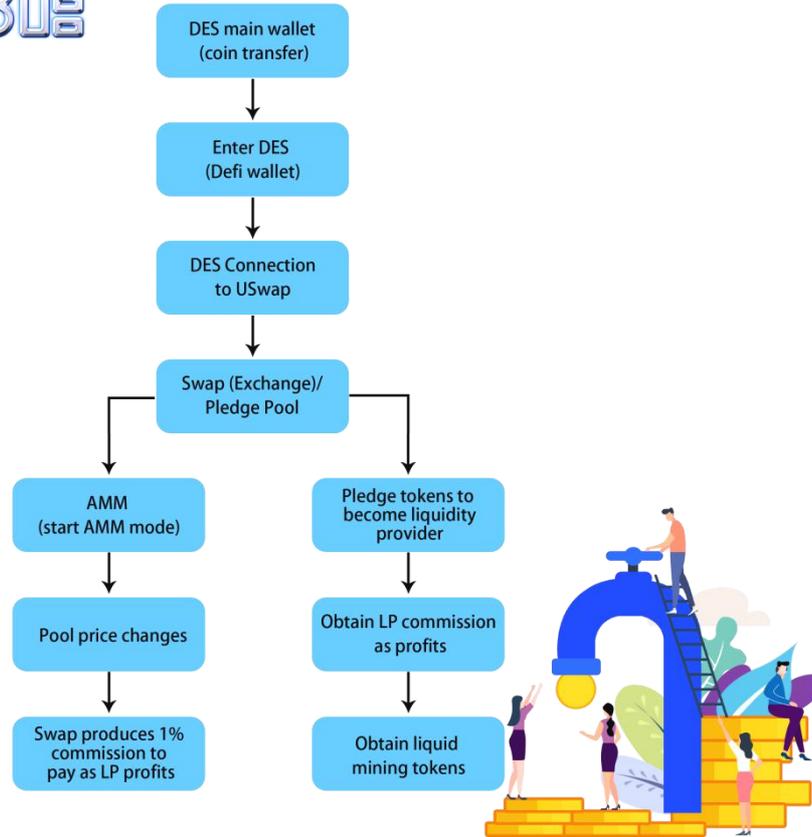


Figure 4-7: Ecological Process of Swap Payment

4.7 Algorithmic Stablecoin

As a kind of encrypted digital asset, Bitcoin adopts the blockchain technology which is well-known for the open, transparent and immutable features. Bitcoin is designed to reduce the threshold for the users to participate in financial services. Even without bank accounts, the users can still freely transfer money worldwide. With the private keys, they can control their own assets instead of being controlled by some centralized institutions.

After the birth of Bitcoin, people realized that the token issuance, as one of the applications of blockchain technology, has complementary

relationship with the blockchain. The tokens will not only be used as the means of transaction payment; meanwhile it has also been embedded with more rights and interests to serve as the voucher in some projects similar to the membership. However, this kind of voucher can be circulated freely with open and transparent issuance quantity.

In the QUATRO system, the mapping of digital assets is protocolized by smart contracts. By means of contract drafting, the generation of platform coins will be obtained through mapping. When the mainstream coins are recharged to the platform, they will continue to deposit funds within the platform and generate protocolized tokens through cross-chain mapping, which is so-called platform coins.

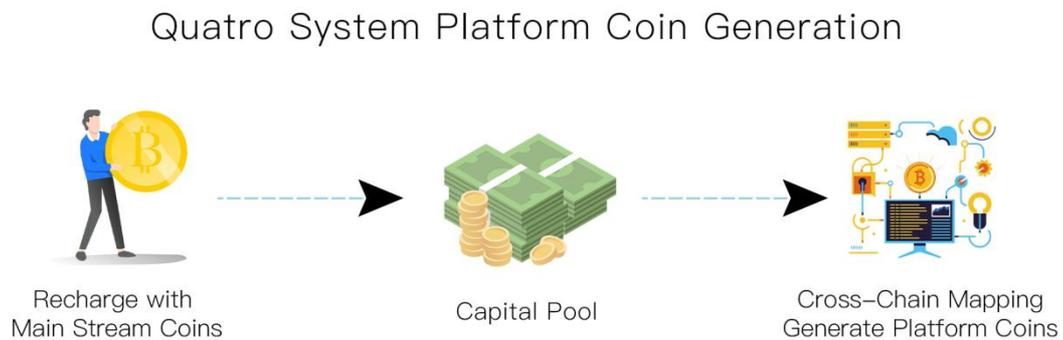


Figure 4-8: Generation of Algorithmic Stablecoin

V. Platform Community Construction

5.1 Community Establishment

The community will be composed of all blockchain enthusiasts and project participants to promote the positive ecological development with comprehensive governance. Based on the principles of sustainable development, efficient operation and equal rights, the community will complete the governance system and coordinate the general affairs.

Every community member will participate in the ecological development in the future. By developing and designing DEQUEST model, the community aims to attract new users with the incentive of autonomous tokens so as to promote new traffic combined with existing traffic to enter the full ecological circulation of the QUATRO protocol. The circulation of tokens and the QUATRO protocol are inseparable for the ecological development of DAO autonomous community.

The community can obtain rewards through different smart contract tokens. DEQUEST will also activate nodes and super nodes and collect commissions as the rewards. Consolidate the community viscosity and efficiency to ensure the ecological development to be fair, just and open in the future. With the DAO as the decision-making organization in the autonomous community, everyone has the voting right in the decentralized network. The development of DEQUEST will be promoted

by the global nodes and super nodes in the future to push the QUATRO protocol into the world.

a. As the decentralized autonomous organization, the community will fully follow the principle of openness, transparency and collaboration, adopt the rigorous and scientific organization structure for the participating individuals and organizations, and carry out rights activities based on the leader nodes.

b. As the open-source community, all participants in QUATRO ecosystem have the right to check the fundraising progress and implementation, so as to ensure the immutability of every investment.

c. The leader nodes in QUATRO community will participate in the election in the open and transparent manner, and the dynamic holding quotas can be inquired in real time. Any participant has the right to participate in the open election. Anyone who has been elected needs to fulfill the obligations and actively exercise the rights and interests granted by the organization for the sake of the maximum benefits of the organization.

d. The KPI for community leader nodes includes quota system, community scale, and promotion results. By means of the KPI assessment, the community encourages more outstanding leaders to integrate more

closely with projects and organizations. On the one hand, they can make more contributions to the community; on the other hand, they can continuously improve their rights and interests to bring more benefits for the community members.

5.2 Community Incentives

DEQUEST will be used as the main incentive, as well as governance tokens such as nodes, super nodes, voting and transactions, to promote the community development in the future. Moreover, the tokens can also be used for market forecasts in multiple decentralized scenarios based on the DeFi established within the ecosystem.

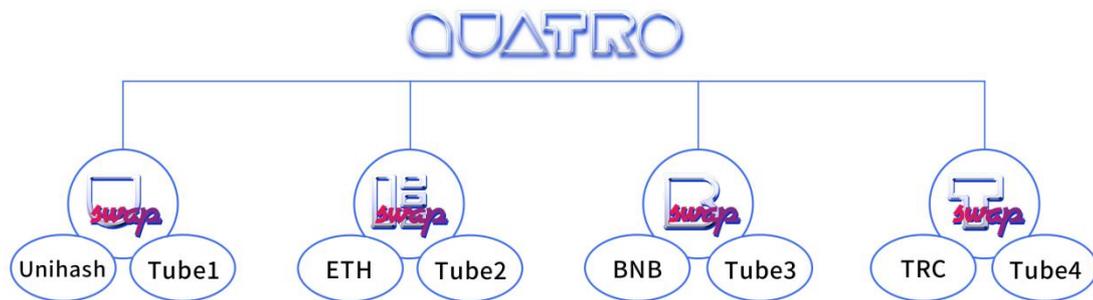


Figure 5-1: QUATRO Ecology

VI. Project Roadmap



Stage 1 — USWAP
First Quarter in 2021

Stage 2 — ESWAP
Second Quarter in 2021



Stage 3 — BSSWAP
Fourth Quarter in 2021



Stage 4 — TSWAP
Second Quarter in 2022



VII. Team Introduction

DEXTOR Lab, a world-famous geek organization, is composed of the blockchain technology and smart contract enthusiasts from all over the world. All the team members are graduated from the world-famous colleges and universities. Most of them are technicians and about 10 members have been granted with doctorate degree.

The founding members of DEXTOR Lab include the executives from Silicon Valley and blockchain experts worldwide. All the members share a common vision: to create a truly unified DEFI 2.0 solution.



VIII. Exclusion Clauses

1. The content of this white paper only aims to describe the project information to those who are willing to understand the project. It does not constitute any investment opinions, or security offers, prospectus, offer document, investment bidding or the offers to sell any product or assets.

2. The team owns the right to interpret and modify the information accuracy and completeness in the white paper. Please consult the legal, fiscal and taxation as well as other professional consultants before participating in any activities described in this white paper.

3. Supporters of all projects must fully assess their own risk tolerance, carefully read the white paper and related instructions on the official website, fully understand the blockchain technology and the project risks. Any participation in the distribution plan means that the participant has known and accepted the project risks, fully understood that the token acquisition is a kind of donation in the real essence, which is non-refundable and non-cancellable.

IX. Risk Warning

1. Cryptocurrency is greatly affected by the market situation and the price may fluctuate greatly with the expected value.

2. National policies on blockchain technology may vary in different countries, which may bring impact on the industry.

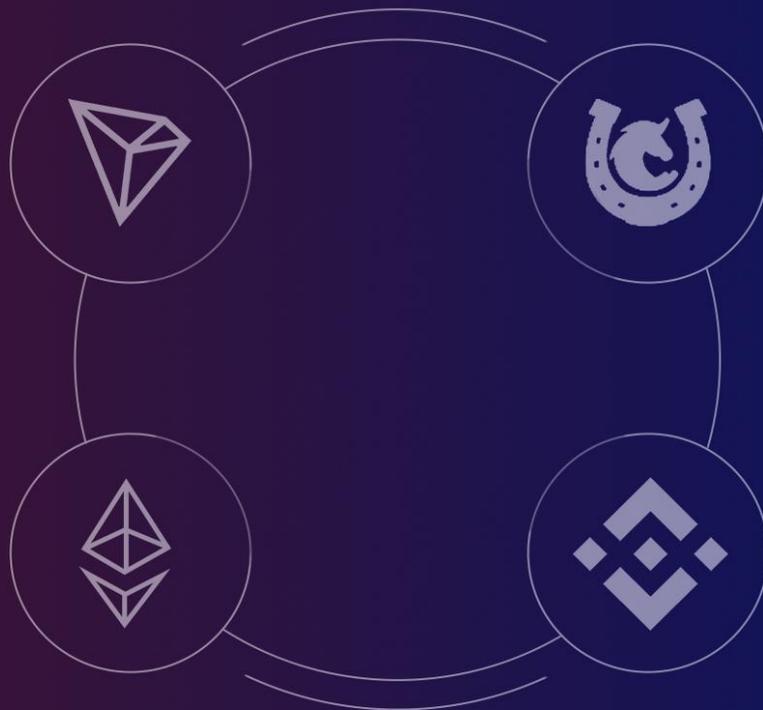
3. The underlying technology of blockchain may have potential security risks.

4. Cryptocurrency industry may face many uncertainties and unmentioned or unexpected risks. Rational participation is indispensable under the premise of fully understanding the risks of blockchain.

QUATRO

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World's Most Innovative DeFi Ecological Platform