



BLOCKCHAIN 2020

TEMPLE FUND MANAGEMENT

GTST WHITE PAPER



A DECENTRALIZED TEMPLE FUND MANAGEMENT
PLATFORM; A BLOCKCHAIN ECOLOGICAL PLATFORM
THAT SUPPORTS VARIOUS TEMPLE APPLICATIONS.





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Introduction: opportunities brought by blockchain

Pan-centralization, also known as "decentralization", is one of the biggest advantages of the blockchain technology system. The blockchain system is based on a decentralized system structure and uses cryptographic algorithms to establish a trust relationship between decentralized nodes. Thus, a decentralized decentralized system is formed. In a decentralized system, the entire transaction no longer requires a centralized third-party vendor intermediation, the rights and obligations between any nodes are equal, and any single node in the system is damaged or lost, it will not affect the operation of the entire system.

After people have completely transferred various assets in real life to the chain, the virtual person representing an individual social individual will be saved and evolved on the chain forever with the individual assets, thus realizing the virtual immortality of human society. This is the future the

blockchain is a world in which the information mapping and value mapping between the real world and the virtual world are fully realized.

With the development of blockchain in many years of practice, it has already broken through the original technological boundary and gradually formed the influence of industrialization. Under the trend of the new digital economy era, we see that blockchain practice cases continue to respond. Landing.

GTST advances and develops the cultural beliefs of the temple religion through its characteristics of flexibility, expandability, stability, openness and circulation to support multiple consensus and performance requirements to ensure the stable and safe operation of the platform system, thereby satisfying the rich palaces. The scene of temple religious culture integration commercial application.

1

Project background: religious development in the temple

1.1 Brief introduction to religious culture

Belief is closely related to culture, what culture is, and culture is a carrier of belief. A nation has different customs and civilizations, but its cultural connotation is the same, and beliefs have finally become a stream. And the Chinese national traditional culture is also the carrier of belief of the Chinese nation! In layman's terms, faith is a person's pursuit of life, courage to difficulties, a bottom line to himself, and the ability to affirm himself by his own strength, not a superficial form.

The same is true for nations, with common pursuits, common goals, and overall cultural beliefs. Just like the Chinese nation, they have the same desire for strong, developed, and prosperous, and have a firm belief in the meaning of life. It is our belief in the Chinese nation. For example: the succession of Taoism and Confucianism, the prevalence of Taoism in the

early Han Dynasty until the end of the Eastern Han Dynasty 400 years later, come back to see whether both the emperor or the common people in the early Han Dynasty "Wiwu" was the center of his own culture, so the national beliefs at that time educated the world with good Taoism. After that, the cultural system began to change. The "doing nothing" of Taoism gradually transformed into the "sage" of Confucianism, and the national faith also began to transform and integrate. But when the culture of a dynasty changed, and the national beliefs began to change, the rule of the Han Dynasty would slowly decline. As someone said, the end or variation of a country's history often depends on the end or change of traditional culture and belief.

The traditional religious culture of the Chinese nation is a carrier of national belief. Because we have a unique cultural form, we have a unique pursuit of national faith. The belief of the Chinese nation has always been different from western countries and other eastern countries. It can also be said that it was not available. During the middle and lower reaches of the Qing Dynasty, the missionaries transmitted Christianity to China. The essence of Christianity is 'gratefulness', such as praying and thanking God for giving

us everything, including life. At that time, the Chinese people also slowly Influenced by Christian culture, fortunately the Chinese did not give up traditional religious cultural beliefs, but slowly integrated the advantages of Christianity into tradition.

China's traditional religious culture tends to see the big picture, which is a major highlight of the traditional beliefs of the Chinese nation. Of course, with the continuous melting of traditional culture and modern culture, details in the big picture continue to make the traditional religion and culture of the Chinese nation and the nation's unique beliefs continue to elevate.

1.2 Social psychology today

The society is renewing. With the progress of the times, the scientific concept has become one of our basic concepts. Our era is a time of rationalization and rationality. The ultimate and noble concept of God, the core of religious belief, is in the public Retreat from life or into the transcendence of mysterious life, or the fraternity of direct interpersonal relationships. In social life, people's awareness of freedom is increasing.

Religious organizations have also made new interpretations of traditional teachings to meet the needs of society, so that the secularization of the interpretation of "God", part of the secularization transforms the humanistic thinking. As a result, most of the people participating in religious activities find a spiritual sustenance or join in the fun. Believe some or not, believe this can also believe that Yes, in fact, if you have the benefit, believe in it for the time being; if there is no benefit, you will believe in it. If there is an event, you will burn the incense temporarily, repent, and ask for comfort. You also did not take it as the inevitable and only result. If one day, church temples wrestle with religious doctrines and demand believers.

In this way, love and unbelief will be coaxed and scattered, which is a manifestation of no belief. This view lacks serious thinking. The reason is that they understand Chinese-style beliefs according to their religious belief styles. Different Chinese styles Make them incomprehensible. However, the point is not that they can't understand and want to understand, the important thing is whether we ourselves can understand,

understand, and inherit this social culture. Reflects our rationality and advanced: stand up, go far.

The times are advancing, the society is advancing, and people's consciousness is also improving. In the face of religion, we are in awe of being neither active nor opposed. In the modern world of today's global village, people's consciousness is constantly refreshed and improved. It is impossible to stick to the "past", and closed development will only lag the times.

1.3 Analysis of the status quo of the religion in the temple

In the study of temple religion, there are two main paradigms, one is called secularization, which means that with the development of modernity, people will become more and more rational, and the mysterious things in the temple religion will be eliminated. (disenchantment), so the temple religion will develop in the direction of secularization. However, the leader of this paradigm, Berger, in the last century has almost declared the weakness of this paradigm-although there is still a follow-up of this path Development research. Another paradigm is called the economics path,

which emphasizes the use of basic economics methods to study religion. Although this road has been opposed by many religious people and other social parties, its explanatory power is very strong.

It is understood that there are thousands of spiritual temples in Lukang Tin Hau Temple, and believers are scattered in all corners of Taiwan. Pilgrims who come to worship are endless. When the Mazu Christmas-the lunar calendar, from January to March, the wave of incense comes out. Lively religious carnival. Just like the Temple of Heaven in Tainan, every year the Tainan Temple of Heaven ' s Temple of Lights and Blessings attracts many believers. Here, there are 6 types of lighting and blessings, which attract about 60,000 believers to come here to light and pray. Today, the number has far exceeded 60,000.

Analyzing this process from the path of economics can be from two aspects:

- 1.The temple provides religious products and services to meet the needs of its target supporters.

2.The consumers of these temples and religious products and services provide time, experience and resources to maximize the relevant goals and needs.

From a market perspective, unless there is a state-supported monopolistic temple and religious market, there will be competition, which will attract and maintain believers through marketing or promotion methods such as staged innovation and scenario replication. There are also some small temples. By not participating in the market, the result is that the market is isolated and therefore marginalized.

In the competitive temple and temple religious market, you can study from the following perspectives:

1、Who will be interested in temple worship and participate in and compare different temples to choose the most suitable worship to meet their needs.

2.The success of temples depends on whether they attract more worshippers.



3. Temple managers will try to increase their competitive advantage.

4. Unless other conditions remain unchanged, the increase in temples will lead to more worshippers.

5. The income of the temple is directly related to the degree of meeting the needs of worshippers.

It is necessary to explain here the application of the most basic assumptions of religious economics. Foreign religions can be generally defined by exclusive religions, while Chinese religions are generally non-exclusive religions. In the context of China, religious economics the path is more applicable. For example, in exclusive religion, conversion is difficult because it means losing the original social capital (that is, losing the social connection with the original religious group) and joining a new religion. Learning new scriptures and rituals is also a costly investment.

In China's non-exclusive religion, this conversion is relatively less difficult. Of course, China's non-exclusive religion market does not mean that this market is a natural and dynamic development process. Once there is government intervention, it will be disrupted, so we only consider market factors and try to exclude political influences.

◆ Palace temple as a company

How would that be? First, we observed that the palace temple also provides products and services. A palace temple is like a dealer shop. A small temple is like a local shop, such as a small shop underneath a community or a town, providing personality and humanized services. The temple is like a shopping mall, a religious supermarket. The size of the temple determines that it must attract more tourists to obtain investor funds to maintain the temple construction. And operation. If it is a store, the location is also a very important influencing factor. So, is the temple the same? Generally new stores will be built near the main traffic routes to get better flow of people, we predict the palace the location of the temple is also critical.

◆ Palace temple as investment

The investment of palace temples in most cities considers the long-term economic benefits, attracts Hong Kong and Taiwan capital, and promotes the long-term development of the local economy. For local groups, they hope to restore local cultural traditions. For local people and believers There is also a purpose to restore the spiritual experience of the gods. But

it is not necessary to explain all the motives. It can be said that the temple as an investment is not just a pious motive.

◆ Innovation

Some palaces and temples rely heavily on innovation, but this innovation is used in the wrong place, so the effect is not very good. For example, using a mobile phone to pay for religious investment, but outside the palace temple, everyone is not interested in it. Some innovations are, some very effective spiritual media, such as a rural woman who said she was talking to Huang Daxian, was also invited to the palace temple, and achieved good results, so it has been emulated by other palace temples. Some palace temples use it the innovation is also very successful. It used advertisements, aired television advertisements for temple fairs in Hong Kong, and printed advertisements in commercial newspapers in Guangzhou. These advertisements even reached the level of modern commercial advertisements, and the results it achieved were also amazing.

1.4 Palace temple funds flow

Who does the management and operation of the palace temple belong to?

On the surface, the palace temple is the palace temple, but in actual life it may be far more complicated than I imagine. There are several cases:

- 1) Most or all of the funds such as merit box income and donations are managed and managed by the scenic area where the palace temple is located or the higher management department. This kind of income almost flows into the expenditure of the non-Buddhist department, and even more completely acts as the leader of some institutions and governments. Convenient means of accumulating money. This phenomenon often occurs in some tourist attractions, because of the large number of tourists, naturally many rights units and illegal leaders want to take a share, such income is almost completely zero cost for them. There are some False palace temples established by developers or government leaders, criminals, etc. They set up a Buddhist palace and temple sign on the surface, but even the monks inside it were looking for someone to pretend. Fortunately, with the strengthening of anti-corruption efforts today, this phenomenon has also converged.

2) The funds are grouped into real monks or Buddhist institutions. Of course, this phenomenon is good. After all, true Buddhism is good to others. The Buddhist monks of Zhengxin also focus on improving their cultivation and promoting their lives. The income is used for the palace. The construction and maintenance of temple hardware and software facilities, the normal living expenses of the temple, the expenses of Buddhist activities, the development of social charity, etc.

For example, for example, a considerable part of the society questioned the business practices of Shaolin Temple, but they did not know the real intention behind Shaolin Temple. Shaolin Temple caused so much criticism and misunderstanding because of the imbalance in the distribution of the interests of the three parties (Gong Temple, Government (Scenic Area Management Company, Hong Kong and China Travel Service), and the latter two who have power and money will naturally use various means to discredit the solemn purity of a Buddhist palace and temple. However, Shaolin Temple itself has hardly justified this externally because of Buddhist thought. It itself teaches us to "defend everything by refuting it", do our best, and stick to it. One

day, you will understand the true intentions of the good and bad. The four seas reveal the secrets of Shaolin Temple's various business insiders. Giving and fearless giving give good causes to get the good fruits of the future.

As ordinary people who do not have Buddhist beliefs, this matter is mostly treated with a secular perspective, which is understandable. However, as true Buddhists and Buddhist institutions, what they do is to respect their noble faith. For monks, Buddhists often in a word: "The donor has a grain of rice, which is as big as Mt. Sumi. This life is impossible, and the hair is worn with horns." The Buddha demanded that the actions of the monks were worthy of all beings.

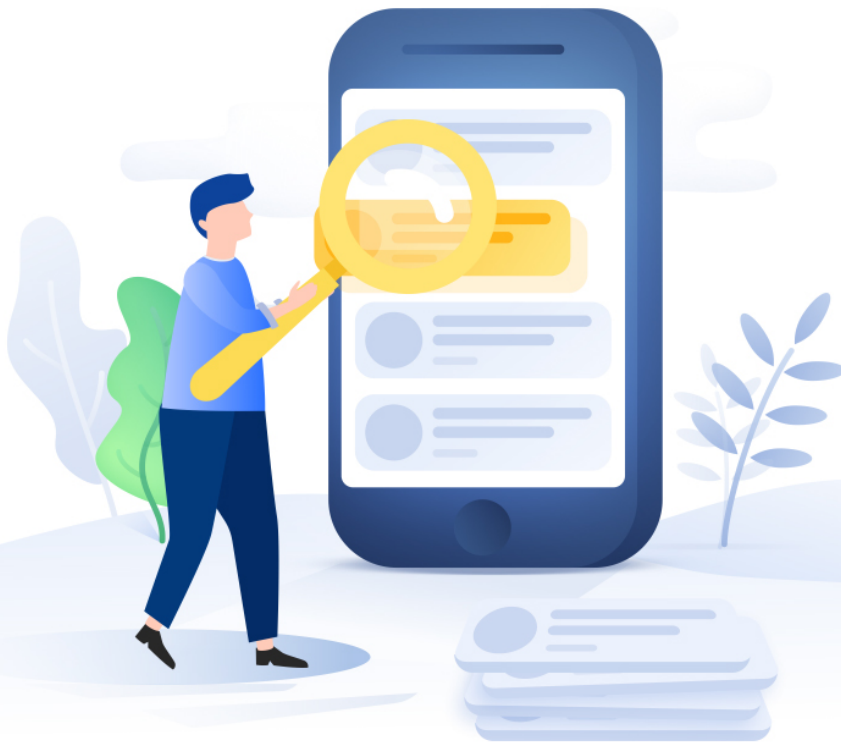
In fact, some of the various temples and temples appearing in China today are not just a problem of Buddhist management. The temples were originally a place of religion and are indisputable in the world, but they are exposed to today's economic society and rapid development. Under the social background, it will inevitably be caught up in various waves.

At present, the gold flow in each palace and temple is usually managed by each palace and temple, but it cannot be effectively managed. The gold flow is usually opaque. It is not known who has entered the pockets of donations received during the festival. We hope that by the virtual currency is used to allow the friendship club to achieve transparent and decentralized management of the gold flow, rather than letting money into whose pockets.

The sorority is a union-like organization formed by temples in various places to develop, but most of them are based on Taoism, such as the Mazu belief, and relatively few Buddhists.

After the establishment of the fraternity, it began to play a group function. On the one hand, it actively carried out folk-religious and cultural exchanges and exchanges between palaces and temples through a series of activities including worshipping ancestors, participating in temple fair celebrations, and supporting each other in the reconstruction of official temple funds; On the one hand, the fraternity is committed to making the development of the cultural beliefs of the temples on a standardized track,

and strives to promote the standardized "traditional resources" to the temples and temples.



2

Project introduction: GTST's solution strategy

2.1 Introduction of blockchain

Now, we are in a silent revolution, from the information Internet to the value Internet revolution, that is, the blockchain technology revolution. Blockchain is the most advanced steam engine, electricity, information and Internet technology. Potential core technology for launching the fifth wave of disruptive revolution.

In fact, the essence of blockchain is a tool for large-scale human collaboration. It implements trust building in a non-trust environment, and achieves greater collaboration through economic positive (incentive) and reverse (punitive) incentives. When the boundary of consensus is opened, the production relationship also changes, and the possibility of large-scale human collaboration begins. At present, blockchain technology has

become one of the important infrastructures of the "Internet of Value", completely subverting the traditional Trust mechanism.

With the continuous upgrade of blockchain technology, blockchain will profoundly change the face and operating mechanism of this world, bring more mutual trust, freedom, order and justice to people, and make people's life and work more reliable, safe and convenient.

GTST follows the trend, grasps the trend, integrates the token economy with blockchain technology, and builds an integrated platform such as palace temple culture, religious beliefs, and gold flow management to drive the development of cultural beliefs.

2.2 GTST Introduction



GTST (GoldTiger Smart Token, Tiger Coin) is a decentralized palace and temple gold flow management platform designed and developed based on blockchain technology. GTST creatively combines blockchain with palace and temple gold flow management, using traditional Chinese religion Belief as the foundation, integrated

into the international palace and temple culture and front culture, and weak support, to create a blockchain ecological platform that supports various palace and temple applications.

The goal of the GTST team is to achieve the interconnection of internationalized temple and temple culture and religious belief information through blockchain technology, to ensure the privacy and security of information and to comply with regulations, and then to explain through the information contributors that the industry has established a new, trustworthy, The shared business collaboration model finally makes the collaboration of all parties more convenient and smooth with the support of more secure and reliable information sharing and more accurate and timely information.

GTST is based on blockchain technology and has constructed a consensus, extensible, standardized, complete, industry-leading vertical main chain that is easy to develop and collaborate. It redefines the current transaction methods and information conversion rules for palace temple applications In order to build various smart contracts in the business form, the value flow and exchange of information and materials can be implemented in a

healthy manner in the business cooperation provided by all parties, thereby increasing the capital utilization rate of each participant and greatly increasing the speed of value transfer. In order to support more commercial development of the temple's cultural beliefs.

2.3 Token economic ecology

GTST's token economy is based on the blockchain, forming an open-circulation, incentive-valued closed-loop economy, enabling value to be created, flowed, transferred, and transformed inside and outside this economy.

In order to motivate ecological builders and participants, GTST issues an ecological universal native token, GTST, to implement the reward system within the platform and the distribution of benefits for all parties.

The setting of GTST's token makes transactions in the entire system more convenient and transparent, and can implement functions such as automatic execution and supervision through smart contracts, ensuring the fairness and impartiality of transactions without third party guarantees.

As a decentralized palace and temple fund flow management project with huge scale and significant application value in the future, the development

of the project is strongly related to the value of economic application. Through its cultural development based on influence and contribution, each GTST corresponds to the time of release. The value corresponding to the platform is a truly valuable "asset" and a digital token that has already landed. With the credit establishment of the owners behind these assets, the circulation of assets, the evolution of mergers, etc., it is bound to gather great value "Chemical reaction" corresponds to the long-term appreciation process of the issued GTST. At the same time, the impact and contribution value of each newly generated GTST will increase.

2.4 GTST vision

The founders of GTST are committed to helping the problems of information and capital management between the temple religion and the temple through the advantages of the blockchain token economy and the natural characteristics of blockchain decentralization. Information sharing between them, while improving the reuse of inaccurate traffic. On the other hand, GTST encourages individuals to encrypt personal information and demand on the chain to accurately match demand and supply. This forms a decentralized business data process. Transform the ecosystem, realize the point-to-point value transfer, build a decentralized business ecology

for the management of religious funds in each new palace, and expand the existing business model and gold flow.

At present, all palaces and temples are centralized gold flow management, that is, the palaces and temples are the center; the gold flow is opaque and the management is not transparent; the GTST project allows various types of palace and temple festival donations to be transparent and decentralized, avoiding the above industry problems. At the same time, through the platform's autonomous management, various palace temple related applications can fully land on the GTST ecological platform; the circulation of GTST will promote the value circulation of the platform, such as the sale of goods in the palace temple, point of light, Antai Sui and other services. Both can be purchased with Tigercoin.



3

Project advantage: value manifestation

3.1 Platform community autonomy

At this stage, the GTST user ecology of all religious temples, participants and investors is established. GTST will allow users to form "cultural community organizations" in the community, unify the value of "people flow is economy", and promote the independence of Huawei The operating "GTST platform community" allows users to invest in GTST Tokens to participate in "cultural community organizations" within GTST, to contribute to the development of the organization, while sharing the benefits of "social organizations".

Based on the advantages of the blockchain, GTST solves the three major problems of revenue measurement, dividend distribution and supporter management. The GTST autonomous economic system based on the blockchain makes every income and expenditure of everyone in the system open, transparent, and impossible. Tampering, users can automatically

participate in the creation of religious cultural content in the temple, and through smart contracts, their digital assets are purchased and the dividends are automatically shared for growth according to the agreement, without the need for any third-party manufacturers to supervise to complete the entire process fairly.

In the future, in GTST, most users have enough options to give their various support to promising cultural organizations, help the cultural organizations to create better works, and enjoy the investment income of the development of the social organizations. In the ecology, both creators and users can achieve a win-win situation, and no longer need to give a large amount of sunk costs to traditional platforms, but instead return a large amount of funds that would have been given to platform operations to the GTST community, forming a good development ecology. It is the core advantage of decentralization and token economy.

3.2 Decentralized management

1) Content on-chain

In order to realize the needs of various temple and temple cultures, religious beliefs, transaction content values that cannot be tampered with, and

permanent preservation and traceability, GTST makes full use of the decentralized characteristics of blockchain technology to design public property rights and transaction information in a public manner. Immediately recorded on the blockchain, users confirm signatures, transactions or authorizations with private keys.

GTST uses the consensus mechanism to work in coordination, and will not be unilaterally tampered with or transferred by cultural factors or transfer of cultural property and transaction information. User rights information is stored on decentralized consensus node chains in different regions, and will not be affected by natural disasters, Damage or loss of data caused by cyber-attacks or the destruction of individual nodes caused by human factors.

2) Proof of originality

By encrypting the information, content information, creation time information, and initial dissemination of the cultural content creators of the temple and temple through encrypted algorithms, the abbreviated digital information is formed and recorded in the blockchain to prove the originality of cultural works. The way to register, using this abbreviated

digital information can effectively prove the originality and uniqueness of cultural content.

3) Anti-counterfeiting determination

GTST is non-tamperable, transparent and query able. Once the feature mark of the cultural work and the creator's mark and the initial time enter the blockchain, it cannot be arbitrarily changed. The feature cannot be forged after being processed by technology. When the feature mark is related to the so-called creation When the evidence matches or matches, the authenticity can be proved.

4) Manage digital copyright and rationalize income distribution

Based on blockchain technology, GTST can use "smart contracts" to explain that users manage digital copyrights and allocate funds to all users. "Smart contracts" have the potential to replace traditional contracts in traditional cultural and creative contracts that involve creativity. In terms of terms, the terms are usually vague and obscure. The connotation is either too broad or too narrow, and users have little control over the content they create. With smart contracts, the coverage is wider and it is fairer to all users. Terms.

5) Asset tokenization

With the development of human society, it is required to realize a large-scale group collaboration model. On the one hand, it needs sufficient asset value exchange efficiency (fast establishment of trust or trust-free, rapid realization of value circulation), and on the other hand, effective asset incentive mechanisms (for Participants are open, fair, and fair incentives.) Asset tokenization perfectly fits the large-scale, differentiated and collaborative development model.

6) Transparent peer-to-peer transactions

At GTST, all transactions can be seen and confirmed. This feature allows owners to better recognize the overall value of transaction certificates, which exist in the form of digital ledger within the blockchain.



3.3 Gold flow data management services

**GTST
design
goals**

01

Achieve compatibility of blockchain technology for commercial applications

02

Flexible and comprehensive consensus mechanism

03

Solving credit costs and credit problems in real business scenarios

04

Conditional release of smart contracts combined with on-chain data triggering to achieve interaction with the real world

05

Provide a universal account system to eliminate boundaries between applications

06

Clarify the rights of all participants

07

Help participants to manage their digital asset gold flows after their rights are confirmed

Based on these goals, GTST will eventually provide a solution with five main modules to improve the future capital circulation and service system:

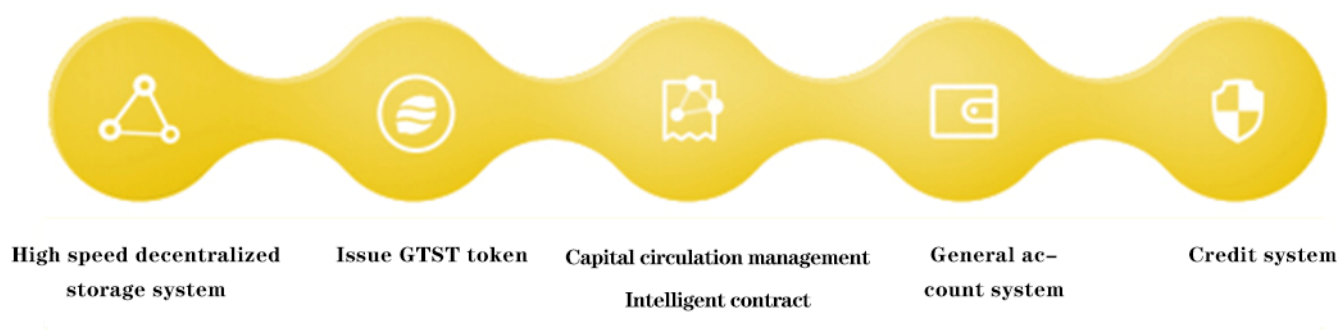
1. A fund circulation system based on multi-party secure computing and smart contracts, which explains the effective exchange and circulation of information materials and digital assets by users;

2. A high-speed decentralized data storage and transmission system based on blockchain smart contracts and encryption technology, providing secure storage data (flow of funds) to ensure the rights and interests of all participants;

3. Issuance of GTST tokens as a quantitative proof of ownership and circulation medium for capital circulation management;

4. An account system that establishes universal accounts for all participants in the system, eliminating the value boundary between application scenarios;

5. A credit system that uses smart contracts to agree on the credit impact of different community behaviors, maintains the community's value system in a decentralized manner, rewards high-quality participants, and punishes or expels poor-quality participants;



4

Technical architecture: underlying core technical

4.1 Hierarchical architecture

GTST System Architecture

Data layer

Network layer

Consensus layer

Incentive layer

Contract layer

Application layer

● Data layer

Based on the highly redundant storage mechanism of the blockchain, blockchain storage has a certain impact on the scalability and performance of the blockchain. The GTST framework is designed with a multi-level node system, and different storage is selected according to different node applications. Strategy (decentralized accounting).

Accounting node: The core role of GTST, entrusted by GTST holders, is responsible for participating in the consensus mechanism and manufacturing blocks.

Full node: Responsible for saving complete data, but does not participate in consensus, listens to and relays transactions. Ordinary users access directly through the interface or user terminal, and do not save data.

The advantage of a multi-level node system is that you do not want all nodes to participate in accounting (mining), store complete data, and rebroadcast transactions. Because not all nodes have common requirements, they want to save complete data, and the GTST design allows the entire system. There is a clear division of roles, and professional nodes do professional things, which saves energy and improves the efficiency of the entire system.

● Network layer

The P2P Protocol (P2P Protocol) supports the data transmission and signaling exchange of each node in the blockchain network. It is an important communication guarantee for the data distribution or

consensus mechanism. The GTST system design supports multiple P2P protocols, communication mechanisms, and serialization mechanisms. According to different scenarios, Dihang needs flexible protocols to use. In terms of communication security, it can flexibly support HTTPS, TLS, WSS (Secure Web sockets) and other secure communication protocols. To achieve a certain level of security and security. On the external service interface of the platform application that needs to be established, it can be extended to support OAuth authentication integration.

● Consensus layer

GTST uses the POP (Proof of Powers) consensus algorithm. By taking the amount of rights records obtained in the past as a reference, the greater the amount of historical records, the greater the right to obtain accounting. In the past 1000 record blocks, the more credit records, Will have a greater probability to obtain the right to record information in the next block. In a certain period, whoever first calculates the Hash that meets the target value, whoever can get the right to book first, and at this time will affect the acquisition of the next block Difficulty of recording rights.

In a certain period in the future, if no next block is calculated, and a node with a larger right at this time calculates a block of the same height, the block of a node with a large right is the longest chain. However, this mechanism is not It has always been a powerful node.

Continuous access to record rights: Other nodes (lesser rights) need only to increase the computing power if they want to obtain the right to record data, so that the calculation speed is increased, and the difficulty of obtaining the record rights of the current block is reduced; nodes with large rights may not be able to The right to obtain records before other nodes that have improved computing power.

● Incentive layer

Because GTST's unique consensus mechanism and full-node network are unknown, performance is not affected by the number of nodes, so GTST's consensus nodes have no upper limit and are dynamically developed, and anyone can join to earn rewards at any time.

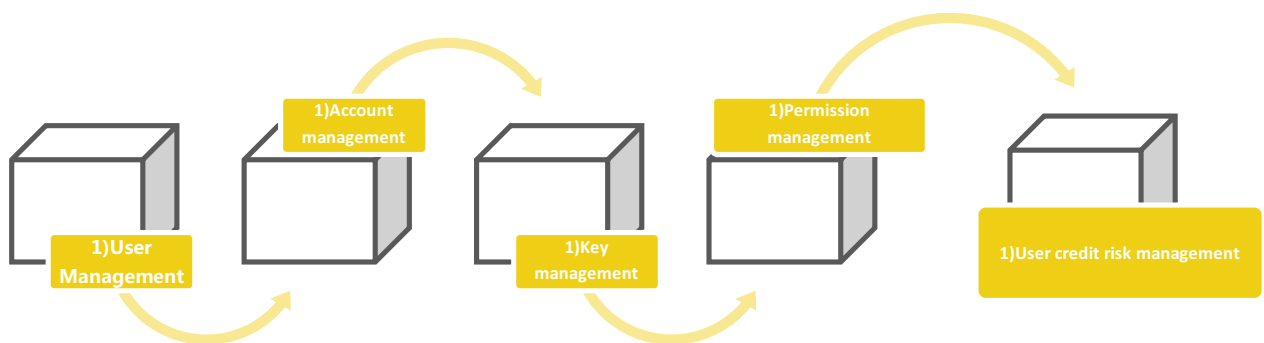
● Token layer

For each token, as a full life cycle management of financial assets on the blockchain, complete and controllable process management for the submission, deployment, use, and cancellation of tokens, and integrated permission management mechanism for tokens the various mechanisms of operation are integrated for safety management.

● Application layer

The biggest feature of the application layer is that it can provide a universal transaction agreement, support multi-language integration and function expansion. One after another will support multi-language and general integrity agreements such as Java, JavaScript, Python.

4.2 Accounts and features



1) User management

GTST user management mainly solves the mapping relationship between user identity and blockchain address, and the privacy of user privacy.

2) Account management

GTST account management is responsible for user account management, including account registration, login, logout, and irrelevant processing of accounts and keys. When the account is registered, the identity information such as the username and password used by the original user is mapped to the blockchain Address.

3) Key management

In the fully managed mode, the GTST key management system is responsible for the association of user keys with accounts, security management of keys, and recovery of lost keys. User keys are generated on the client side, and users can choose to save the keys in a key safe. Or it can be delegated to the linked account so that the key can be retrieved after the loss. In order to ensure the reliability of the relationship between

the user account and the key, the key management system stores the signature of the linked relationship in a multi-node chain.

4) Permission management

The GTST permission management module is responsible for the control and management of user accounts, key systems, node join and exit, and data access permissions, including account delegation permissions, node consensus permissions, and user data access permissions. Permission is to provide an audit function for the supervisory authority, to strictly control access rights and data scope, and to associate users with transactions that are irrelevant on the shared ledger. Account delegation permissions are used to control user accounts Delegate relationship access control. Consensus permission manages the permission of participating or newly joining nodes, and access permission is used to manage the user's permission to query data on the blockchain.

5) User credit risk management

The risk control module is responsible for risk control of user transactions in the blockchain.

4.3 Quantum entanglement encryption technology

GTST uses quantum entanglement technology, which is a secure encryption technology for transmitting information. It is related to the transmission of information at the speed of light. The "communication" between these particles is fast, and this connection is used to control and transmit information at such a fast speed.

At the same time, the blockchain also uses asymmetric encrypted public-private key pairs to build trust between nodes. Asymmetric encryption algorithms consist of a corresponding pair of unique keys (i.e., public and private keys). Anyone who uses the user's public key can encrypt the information with the user's public key and implement secure information interaction with the user. Due to the dependency relationship between the public key and the private key, only the user holding the private key can Decrypt the information, and it cannot be decrypted by any unauthorized user or even the sender of the information.

The encryption function component has the following functions:

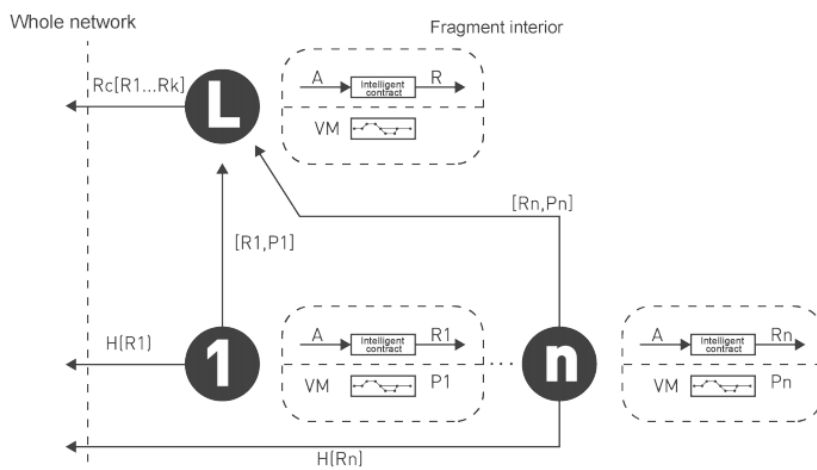
- 1) Support international mainstream encryption algorithms, such as symmetric encryption algorithms such as aes256 and asymmetric encryption algorithms like RSA.
- 2) Supports commercial secret algorithms, such as symmetric encryption algorithms such as sm4 and sm7, and asymmetric encryption algorithms such as sm2 and sm9;
- 3) Should have a clear key management scheme to ensure the normal operation of the underlying security mechanism of the blockchain;
- 4) Cryptographic algorithms should have the ability to resist cracking. The security of cryptographic algorithms should be regularly reviewed. If necessary, encryption algorithms with higher computational complexity should be used.

4.4 Contract period

In current blockchain designs, the execution of smart contracts is performed synchronously outside of normal data verification. However, malicious

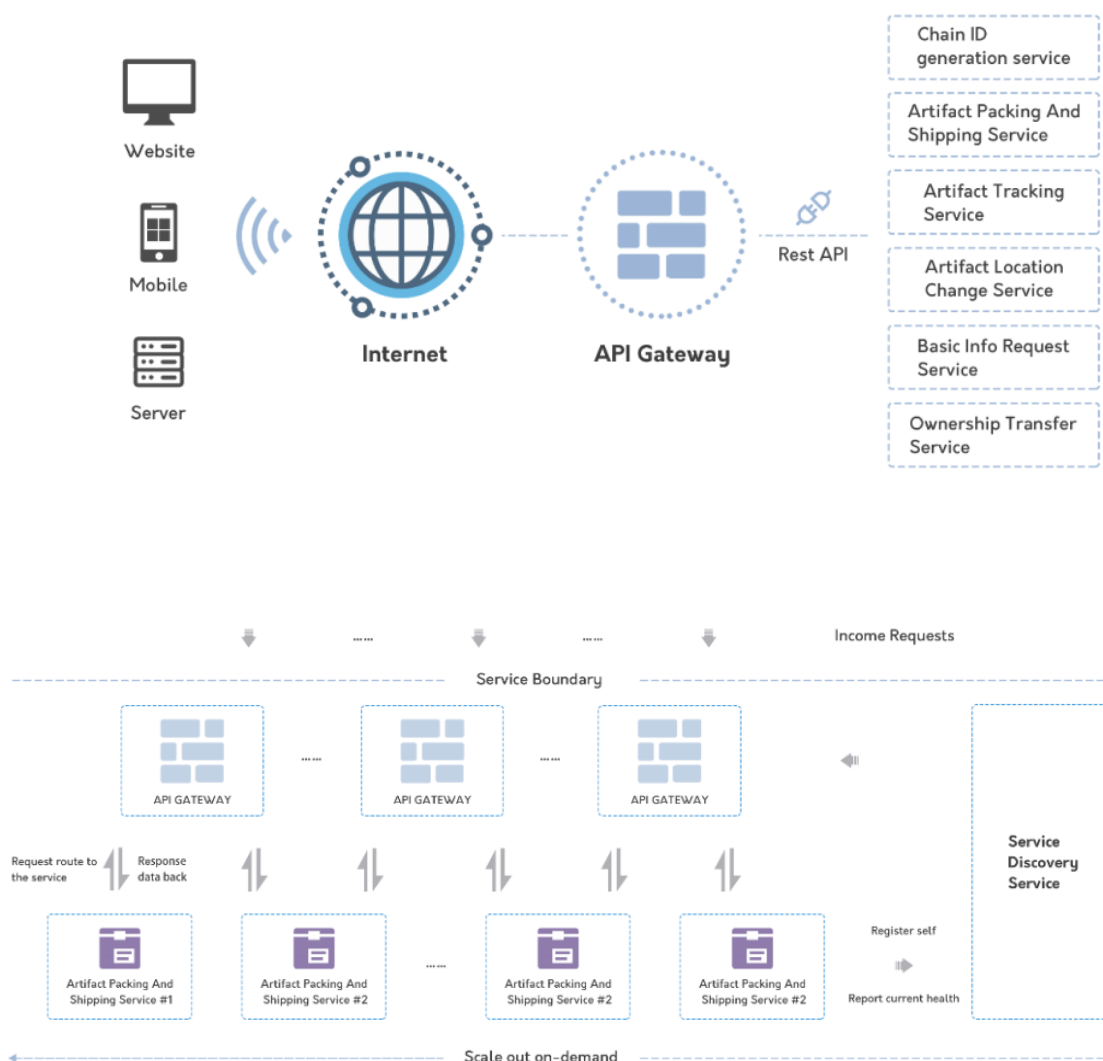
design or poor smart contracts will take longer to execute, which will affect normal billing behavior and cause facts Denial of service attacks on the current. The current smart contract economic model is divided into equity guarantees and fee enforcement. The two have adopted different strategies to prevent denial of service. The former requires that the smart contract must complete the operation within the block interval, and the latter is Economic methods are used to limit the occurrence of malicious behaviors. However, these two methods have obvious shortcomings: the equity guarantee cannot execute complex logical smart contracts or multi-layer smart contract calls, which limits the decentralized application ability; fee execution seems to be relatively Reasonable, but there are disadvantages.

In the design of the GTST smart contract, we adopted different strategies: first, the smart contract is run using asynchronous execution; second, the smart contract is run using fragmented execution to avoid denial of service and SPAM attacks; finally, the GTST system The implementation of the Chinese smart contract uses free or paid tokens issued by the publisher itself, making the cost controllable and the issue cost low.



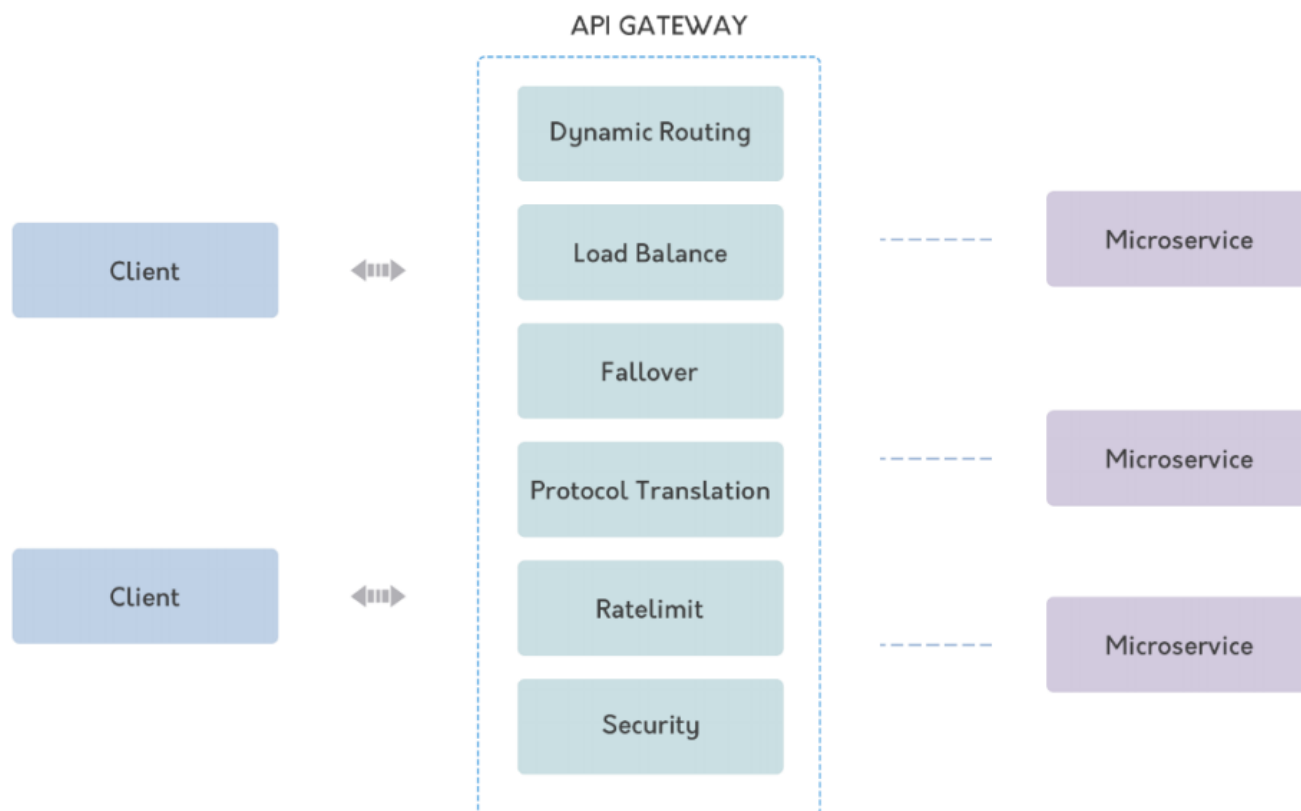
4.5 Standard API gateway

A universal application architecture interface designed for complex processes. The API gateway is the unified entry point for all API requests. It encapsulates the internal structure of the application. The client only needs to interact with the gateway without calling a specific service. When the internal architecture of the system is upgraded or new functions are deployed, the user terminal is completely transparent, and only needs to ensure the correctness of the switching protocol without caring about changes in the access method. API gateway network topology diagram, deployment diagram, and function diagram as follows:



The horizontal expansion characteristics of specific function nodes are also convenient for large-scale access. Different applications of the same service can ensure that the API gateway can appropriately divert service requests. API gateway support includes consistent hashing, ip-hash, random access, and limited access. Different access strategies. At the same

time, service discovery and API gateway services can be expanded according to actual needs.



4.6 Super node / edge node

GTST has optimized the super node mechanism so that it can better manage the tasks of the core network and system functions, including running multiple services on the sidechain, supporting 5g module group expansion, and tracking and measuring the normal execution time of the device.

In addition to executing smart contracts and generating blocks, the GTST super node also provides storage services for the massive data of the entire network. As the master node of the ipfs-like distributed storage network, it ensures that the entire GTST network provides efficient, reliable, and trusted blocks. In addition, the GTST super node also has a device module that can access smart terminal equipment and adapt to multiple terminal access modes such as video and network. Smart contracts and small calculations are performed on the super node.

Massive computing requirements will bring a serious load to super nodes. After stress testing on the super node mode, the team believes that super nodes are not suitable for complex and long-term computing tasks in the Internet of Everything environment, so edge computing node access is required to perform computationally intensive. On the other hand, in some IoT applications with high response requirements, the delay of the cloud response will cause the overall efficiency to be low.

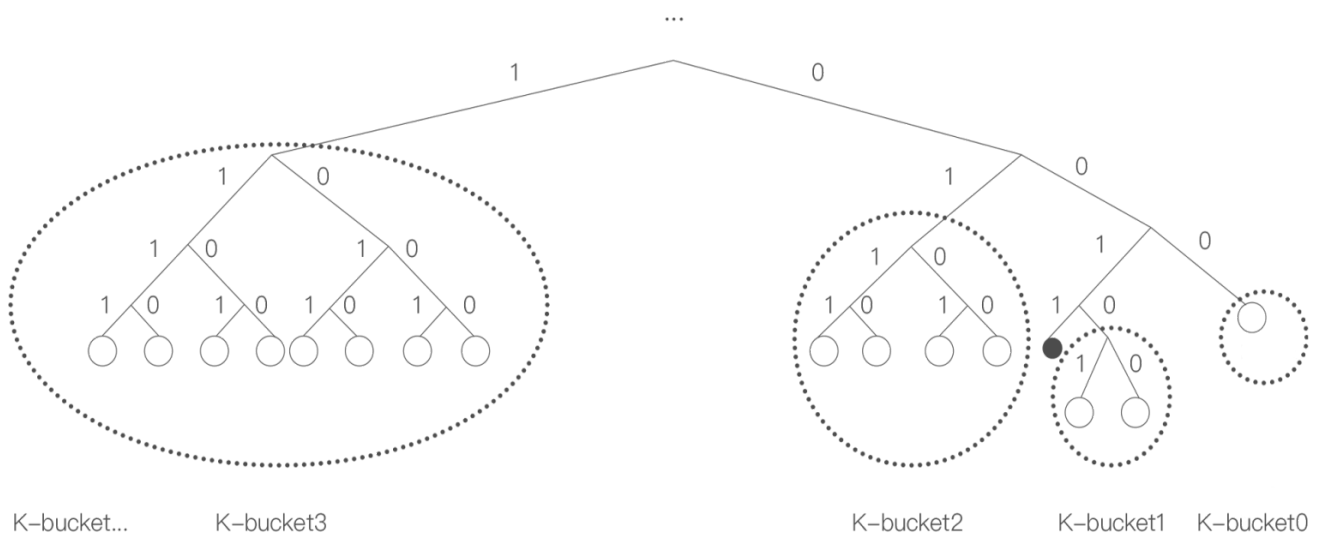
GTST introduces the concept of edge node. The edge node mechanism is a necessary complement to super nodes. It can sink intensive computing services to edge nodes. This helps reduce response delay and bandwidth

costs and meets decentralization. The needs of various smart scenarios under the architecture model.

As the source of mass computing and mass storage resources for the GTST network, edge nodes can be all future terminal devices with certain computing or storage capabilities. By making super nodes guarantee the edge nodes, they ensure that the edge nodes are large data storage and super high-speed intelligence. Contract edge computing processing provides an efficient, reliable, and trusted blockchain network service. By combining the idle computing capacity and storage capacity of many edge nodes into a decentralized computing and storage platform, it performs long-time computing tasks. Including AI applications, image processing, genetic sequencing and other scenarios that use edge nodes, after offloading intensive computing tasks from the cloud to the edge, the overall system consumes more than 40% of energy, and data can be reduced by 90% in terms of integration and migration. Above time.

The edge node data storage uses the following algorithm:

GTST uses an improved version of kademlia algorithm to implement data storage and retrieval. In GTST, the node Nid length is 512; the node redundancy parameter k is 32;



- 1) After joining the GTST, the edge node E1 requests the node ID from the GTST super node, and the neighboring super node H1 is selected from the id pool;
- 2) The edge node E1 calculates $Nid1 = sha3-512(id1)$ after receiving $id1$ (that is, the identity of the node);
- 3) When E1 receives the data1 storage request from the terminal device, it divides it according to the size of Data1, assuming the length of the node;
- 4) According to the user's payment of the GTST token, the matrix m is selected, and redundant data is generated according to m :

- A. The user selects the normal security mode, and the system generates redundant data at a ratio of 10%: $m_i = \lfloor n_i * 10\% \rfloor$, ($i = 0, 1$);
- B. The user selects the medium security mode, and the system generates redundant data at a ratio of 20%: $m_i = \lfloor n_i * 20\% \rfloor$, ($i = 0, 1$);
- C. The user selects the strong security mode, and the system generates redundant data at a ratio of 30%: $m_i = \lfloor n_i * 30\% \rfloor$, ($i = 0, 1$);
- D. The newly generated overall data is recorded as: $Data1 = \sum B_j$ ($B_j = B_j$ when $i \leq n_0 + n_1$, and B_j is redundant data when $i > n_0 + n_1$).

5) For each j , calculate $Nid_j = h_j = \text{sha3-512}(B_j)$, and query whether the relevant data entry exists at the edge node according to h_j :

- A. Calculate the distance $d = Nid_1 \oplus Nid_j$ between the node $E1, i_0$ to be stored and the node $E1$, and check according to the Kademlia binary tree routing table;
- B. Use the ping command to find out whether $E1$ and i_0 are alive;
- C. If alive, send store B_j instruction to $E1, i_0$; next j processing;
- D. If the nodes $E1, i_0$ are not alive (report the non-alive node to the super node and deduct the related GTST reward), then the corresponding K-bucket set $\{E1, i_1, E1, i_2, \dots$ Indicates the distance between the node to be stored and the edge node, 2

$i \leq it < 2i + 1, t = 1, 2, \dots, k, k$ is selected to a maximum of 32. If the value is not found, the data is discarded) Select the first surviving node for storage.



5

Prospects: GTST ecology



5.1 Creative sharing

On GTST, everyone can create content, share their knowledge of the temple culture and religious beliefs to everyone, and let everyone join the cultural atmosphere. With GTST, anyone can easily shoot, produce your own content, the copyright of these content will be permanently stored in the blockchain, even GTST itself cannot use the content to make profits

without permission. GTST provides an open, trustworthy, Palace cultural content publishing platform that encourages exchange and sharing.

5.2 Cultural communication

Users distribute the content of the temple culture. The communication channel is not limited to GTST, but also other application platforms and social media platforms. With its communication behavior, users can obtain corresponding benefits.

5.3 Cultural games

GTST provides users with all kinds of mini-games about palace and temple culture. When playing games, everyone not only enjoys the fun, but also understands and appreciates the charm of the palace and temple culture more easily. At the same time, the development of GTST mini-games is also to increase user activity Inject more vitality into the platform, fully mobilize the enthusiasm of network data, and increase user stickiness while creating more economic value.

5.4 Platform mall

Online shopping mall with detailed classification, high-quality products that can be traced to the source, provide protection from the source, and

at the same time, select high-quality products combined with user experience for more users to choose. All products in the mall have real user experience scores Information, without false advertising, services such as goods sold in the temple, bright lights, and A Tai Sui can be purchased with GTST.

5.5 Investment works

This is a major innovation of GTST. In the future, all users can actively explore the newly released high-quality cultural and religious content in the platform community, and pay GTST to choose to become the investor of the work. According to the smart contract published in the work, The income rule of the cultural work is that in the future, the GTST obtained by the cultural work according to the user's rewards, payment viewing, and contribution rewards will be given to the investment users in the form of dividends according to the agreed proportion, so that the users truly participate in investing in themselves. Favorite quality cultural content.

6

Issuance plan: GTST token

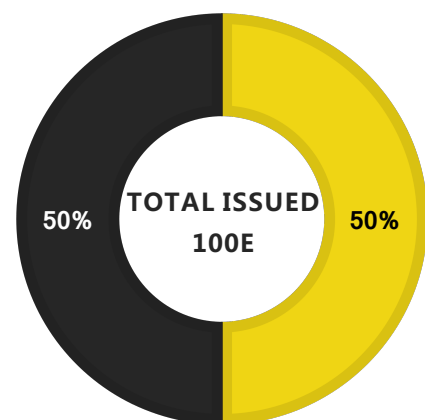
The GTST token economic system has its own token mechanism-GTST. Having GTST means having the right to use the GTST decentralized token economic system. The implementation of GTST is similar to other cryptocurrencies, with typical cryptocurrency characteristics: GTST and Corresponding wallet address association, wallet management and account-related public and private keys. Owning the wallet private key represents the control and ownership of the tokens.



GTST total release: 100E

Fraternity organization supervision 50%

50% of market circulation



■ Supervision of fraternity organizations ■ Market circulation

7

Development planning: operating route

First stage

- Carry out market research and propose a feasibility analysis plan

Second stage

- Complete gtst performance internal test, improve and optimize the operating system, and complete the gtst ecological basic framework

The third stage

- Organize and release the latest version of the white paper, the official website of the project

Fourth stage

- Conduct market promotion, integrate market resources, and help gtst ecological development



Appendix

Risk warning

There are various risks in the development, maintenance and operation of GTST, many of which are beyond the control of GTST developers. In addition to the other content described in this white paper, participants are requested to fully understand and agree to accept the following the risks mentioned:

◆ Market risk

The price of GTST is inseparable from the overall situation of the digital currency market. If the market is generally weak or there are other uncontrollable factors, it may cause the price of GTST itself to remain undervalued for a long time even if it has a good prospect.

◆ Regulatory risk

Because the development of blockchain is still in its early stages, there are no relevant regulatory documents related to the pre-requisition, transaction requirements, information disclosure requirements, lock-up requirements, etc. in the global fundraising process. It is unclear how the current policy will be implemented. These factors are all unclear. It may have an uncertain impact on the development and liquidity of Xiangyu. Blockchain technology has become the main object of supervision in various major countries in the world. If the regulatory body intervenes or exerts influence, GTST may

Affected by it, such as statutory restrictions on use, GTST may be restricted, hindered or even terminated GTST applications and development directly.

◆ Competition risk

At present, there are many projects in the blockchain field, and the competition is very fierce. There is strong market competition and project operation pressure. Whether the GTST project can break through in many excellent projects and is widely recognized, is linked to its own team

capabilities and strategic planning. Also affected by many competitors in the market, there is the possibility of facing vicious competition.

◆ Risk of brain drain

GTST brings together a team of talents with both vitality and strength, which has attracted senior practitioners of blockchain and technology developers with rich operations. In the future development, it is not excluded that core personnel leave and conflicts within the team result. The possibility of GTST being negatively affected. Accelerated technological risk cryptography development of the project or the development of technology such as the development of quantum computers, or the risk of cracking to the GTST platform, may cause the loss of GTST data. During the project update process, Vulnerabilities may occur and they will be repaired in time after discovery, but there is no guarantee that they will not have any impact. In addition to the risks mentioned in this white paper, there are also some risks not mentioned or expected by the founding team. In addition, other risks may also appear suddenly, or in a combination of multiple already mentioned risks. Participants are requested to fully understand the team background, the overall framework

and ideas of the project, and rational participation before making participation decisions.

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