GPO
Galaxy Pool

WHITE PAPER

CONTANS

Overview of the global data storage market

With the rise of cloud computing and big data technology, the data produced every year in the world has exploded rapidly, and the ability to master and process data has become the major competitive strength comparison of business giants.Among them, data storage is the most basic, as well as the most critical technology, which is the core asset of the formation of specific products.According to the research report of international data company IDC in 2016, the total amount of data in the world that year was about 16.1ZB, and it also maintained a compound annual growth rate of about 40%.By 2025, the total amount of data in the world is expected to reach 163ZB. In more segmented related segments, industry solutions ranked high with 34.3% market share, while storage services and database services accounted for 13.9% and 7.8%, respectively.In a real-world scenario, storage services and database services are often interdependent, so the combined market share is 21.7%,which ranks only second to the size of the market for industry solutions, the business community is in great demand for storage and database services.

Centralized and distributed storage

There are security flaw in the closed platform of centralized data storage.Hackers treat central servers containing millions of users' personal information as "honeypots", and multiple data breaches have shown that such storage models can cause serious damage.As the industry gathers more and more user data for monetization, U/ UX, market research, or machine learning purposes,it is obvious that eliminating central points of failure in the data store becomes critical.The transition to new policies and data models is bound to be a slow and challenging violation, as the company's incentives are not aligned with user privacy.Therefore, users have made a compromise between convenience and privacy, allowing their data to be privatized on the server side and only showing concern in the event of a major hacker attack.

The reliability of centralized storage has reached an extreme. It is difficult to solve some non-technical factors and influence data reliability and service stability by technical improvement alone.For example, in August 2018, Tencent cloud completely lost user data (hardware failure and operation and maintenance personnel misoperation), and in September 2018, Microsoft Texas data center stopped service for more than 20 hours (because the refrigeration equipment was damaged by lightning).As well as the 2017 AWS object storage failure (misoperation by operations personnel) and the alipay outage (fiber optic was cut off), not to mention the fact that 9/11 directly destroyed the headquarters of many large companies.
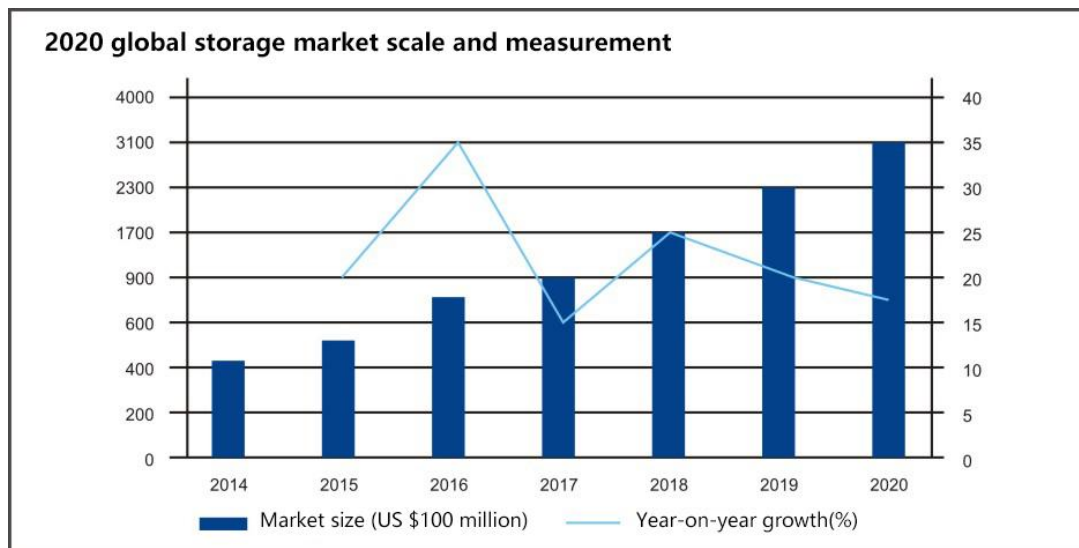
In order to improve the reliability of persistent storage, it is necessary to establish storage nodes scattered around the world. The more scattered the storage nodes are, the more reliable the data will be.

In order to accelerate the network, decentralization is also needed to establish CDN nodes scattered around the world. The more the number of CDN nodes, the closer they are to the end users, the better the effect of network acceleration.

Therefore, distributed storage node is the basis for effectively improving data security. With rich experience in mine operation, Galaxy Pool team makes use of global resource advantages to realize distributed storage. The global layout of storage nodes, through the service of Galaxy Pool, enables the ordinary people to participate in the mining of energy with low cost.Galaxy Pool is committed to building the largest, most stable, efficient and productive storage Pool in Asia and even the world in cooperation with KWJ, the top storage miner in the industry.Galaxy Pool's services include mining Pool construction, mining Pool operation, storage resource accumulation, storage resource rental and other businesses.Galaxy Pool is responsible for the construction and operation of storage resources in all parts of the world. Users can obtain the profits from mining by using Galaxy Pool, and Galaxy Pool issues token GPO as proof of interest. GPO total issuance of 600 million, never additional.Relying on the storage resources of tens of thousands of Galaxy Pool mining machines, GPO can not only serve as the proof that users enjoy the rights of Galaxy Pool mining pools, but also be a kind of freely circulating block chain asset that can be realized in the secondary market.

The market demand

1. The huge cloud storage market

According to Cryptoslate, the global technology company Cisco Systems has released a report focusing on its enterprise block chain platform.The report predicts that the storage potential of block chain could account for 10% of global GDP. Currently, global GDP is estimated at $80 trillion, which means that by 2027, a decentralized and licensed block chain could store trillions of dollars in value.It is understood that the global storage market size exceeded us $90 billion in 2017, us $172.2 billion in 2018, and is expected to reach us $310 billion in 2020, with a compound annual growth rate up to 30%.With the increasing demand of enterprises for data storage services, the global storage market is gradually maturing and developing rapidly, and the domestic cloud storage market is developing rapidly and expanding obviously.

2. General consensus

Traditional cloud storage is popular because of its high efficiency and high commercial availability, but due to the increasing demand for cost-effective storage, the increasing popularity of cloud technology and the aggravation of security and privacy issues, people have to seek other solutions.Distributed cloud storage can provide end-to-end encryption and highly decentralized information storage function, with advantages of low cost, high security and full utilization of idle resources. It may become the mainstream cloud storage solution in the future.

3、POW(Proof Of Work)

Because one of the characteristics of block chain is distributed system, it has extended a very potential field -- distributed storage, also known as block chain storage. Block chain storage does not store data on the block chain, but decentralized storage and the incentive of block chain, which can be used to let more nodes and users join the system, so as to build a more reliable, low-cost and large-scale storage system.In the field of block chain storage, the best known are Yotta Chain and IPFS and their original driver Filecoin.They are a decentralized storage network, uploaded to the decentralized stored data on the network will be cut into several pieces, miners need to compete for these pieces, and each fragment is stored in the machine's hard disk is bidding, rob single, storage, and a series of process, therefore, save force mining operations and adjustable parameter is particularly important.

Not only operation and maintenance is particularly important, because of the particularity of storage, the mine is basically arranged in IDC machine room, temperature, humidity and dust degree should be well controlled, but also to prevent power and network interruption, and also need 24-hour operation and maintenance personnel real-time monitoring.In addition, the profit of storage mining is also related to the area where the mining machine is located, especially the area with high network traffic, namely the big city.In summary, it can be seen from the above content that deposit-power mining has a direct effect on networked storage and a considerable development prospect. Moreover, decentralized storage is the future cornerstone of block chain, and its entry threshold is quite high. Therefore, ordinary computer equipment cannot be satisfied at all.Compared with the

situation that the personal computer could mine in the early days of bitcoin, deposit mining needs professional mines from the very beginning. It utilizes a large number of specialized mining machines and equipment to dig mines through clustering.For ordinary users who do not have the conditions to buy mining machines but want to participate in deposit mining, it is their only choice to become the holder of specialized storage pool interests through fragmentation investment.

Project introduction

According to the market demand, after long-term market research by the Galaxy Pool team, it is believed that the storage mine Pool has a great development space in the future.Based on this, Galaxy Pool cooperated with KWJ, the top storage mining machine manufacturer in the industry, committed to building the largest, most stable, efficient and high-yield storage mining Pool distributed in Asia and even the world, and developed the latest generation of storage resource service platform on this basis.Based on this, Galaxy Pool cooperated with KWJ, the top storage mining machine manufacturer in the industry, to build the largest, most stable, efficient and high-yield storage mining Pool distributed in Asia and even the world, and developed the latest generation of storage resource service platform on this basis.Through self-operated and cooperative mining infrastructure, the platform provides global users with mining pool rights subscription, mine operation, mining machine trading, storage resource circulation, exchange and other services.By reducing mining costs, such as big data, cloud computing, quantum computing, CDN core machine room network, etc., mining services turns out to be more convenient, efficient and fair.

service content

Services offered by Galaxy Pool

1. Storage rights transaction

Galaxy Pool produces a large amount of energy storage resources through self-built and cooperative mines. In order to facilitate the participation of users, Galaxy Pool also issues a GPO of mineral Pool equity token. After holding the GPO, users can become the equity owner of mineral Pool resources, and users holding the GPO can get corresponding benefits.

In order to enrich the storage resources of the platform, Galaxy Pool will also open the platform to attract the third party holding a large number of storage resources to enter the platform. These participants who hold mining machine storage can be converted into storage rights through the Galaxy Pool platform, and the trading of mining Pool rights is highly free.

Galaxy Pool's original trading mode of mineral Pool equity, the mineral Pool equity held by users, can be used to prove the equity to obtain the income of the platform, and can also be realized through trading (secondary market). Users holding GPO can customize the price for trading. Users can also make GPO transactions through OTC OTC transactions.

2. Ore machine subscription and trusteeship

The mining machine is also a kind of resource. Galaxy Pool will subscribe to the mining machine for customers. The mining machine subscribed by users can be directly hosted by Galaxy Pool.As long as the user pays a certain electricity fee and custodian fee, all the storage resources are in the hands of the customer, and the digital currency is also held by the customer.

To sum up, it can be seen that the model of Galaxy Pool is completely created according to the current demand of storage and mining market.Through innovation of model and product, Galaxy Pool fully applies the feature of block chain technology to solve transaction mutual trust in the field of stock equity trading.Through Galaxy Pool, users can significantly reduce the cost of mining energy, and at the same time, reduce users' profit risks and improve their experience through a variety of services.
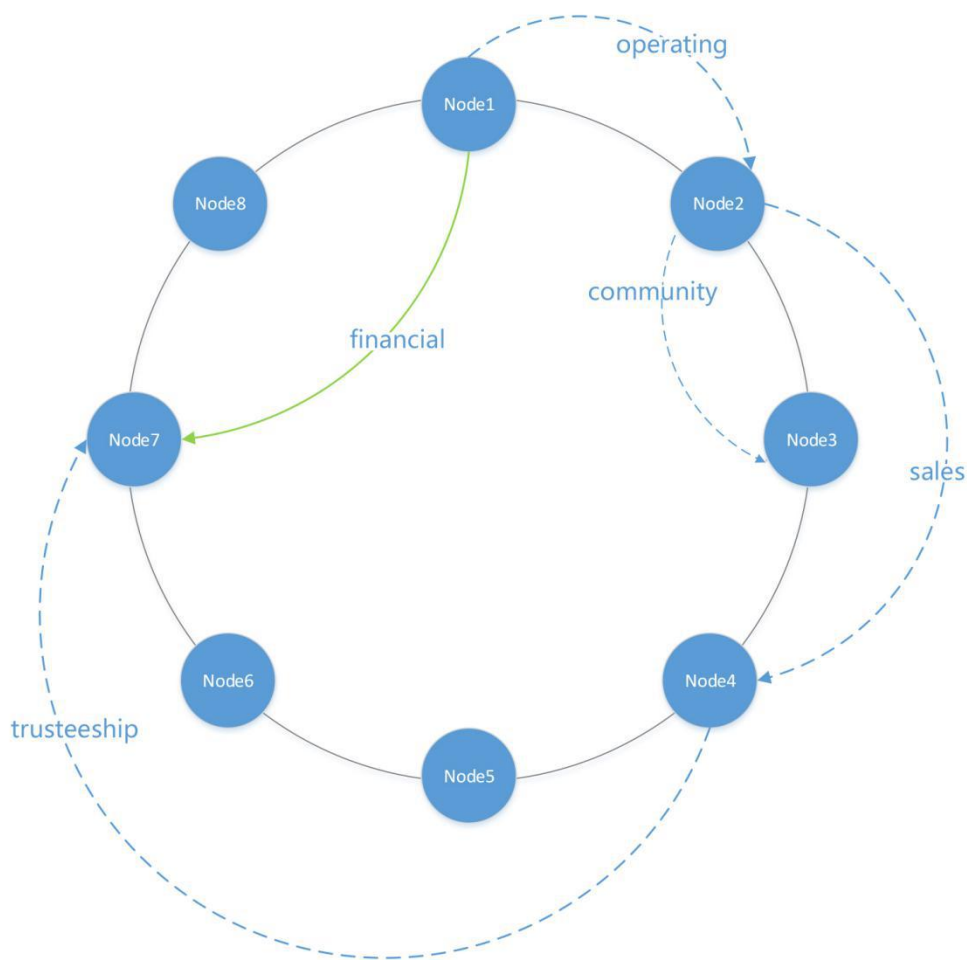
Application scenarios

There are many usage scenarios for digital assets on the Galaxy Pool

[Mining Pool operation] : this is the core business of Galaxy Pool. We will build a high-performance storage mining machine operation service platform to provide stable, safe, open and open services for the mining operators of Storage power.By holding GPO, the holder of interest in the mine Pool can deeply participate in the development of Galaxy Pool and share the fruits of the growth of the mine Pool.

[Miner subscription and hosting] : users can subscribe to the miner and use the hosting service on Galaxy Pool, and make payment using GPO.

[Digital finance] : Galaxy Pool will open digital currency leasing and other services. Users can pledge their GPO holdings or other digital currencies to Galaxy Pool. The platform will lease miners in proportion to dig more digital currencies for customers and get more returns.

[Social services] : Galaxy Pool will build a community so that a large number of investors, developers, users and other block chain enthusiasts can freely exchange block chain issues.It can be more timely, convenient and efficient to learn the latest information and communicate with other parties, so that more and more people participate in the platform, forming a good atmosphere.Many activities in the community, such as offering rewards, offering rewards, internal information search, etc., need to consume GPO.

In the era of the Internet of things, artificial intelligence, block chain, cloud platform and edge computing, computing and storage are always the foundation of the Internet of everything.Well-known cloud service providers, such as amazon AWS, Google cloud, Microsoft Azure, Aliyun, Dropbox, etc., have a combined market value of more than one trillion dollars.However, decentralized storage is the cornerstone of the future of block chain, and from the current situation, star projects of distributed storage are likely to replace these cloud services and supplier giants.Therefore, the existence of Galaxy Pool is of great value and significance. In the future, Galaxy Pool will become a global super supplier of block chain distributed storage.

Profit model

The main profit models of Galaxy Pool

1. Profit from mining: Galaxy Pool will make profits from mining itself in the case of rich storage resources. Galaxy Pool will automatically switch between high-yielding projects. The main storage service of Galaxy Pool is Filecoin and YottaChain. Filecoin was the largest ICO project in the world at that time, with investment from sequoia capital and Union Square Ventures, a well-known venture capital firm in silicon valley. Its future market value is inestimable.Yotta Chain was built by a professional team led by international top scientist Wang donglin. By connecting scattered storage resources, Yotta Chain forms a self-healing, large-scale and globally Shared unified storage pool.And can ensure everyone's data sovereignty, in storage efficiency, data reliability, data security and reduce storage costs and other aspects of the extreme.

Yotta Chain has mastered the core technology of block chain storage, has 20 years' + cryptography application experience and nearly 10 years' distributed storage experience, and has won more than 200 domestic and foreign patent technologies and other awards in the storage field. It is honored as the most promising storage block chain project beyond IPFS/ Fillecoin.

2. GPO transaction: Galaxy Pool provides storage service for users who need it through self-built + cooperative mine.The GPO will be traded as proof of income of the ore pool, and the holding of the GPO can obtain the reserve income of the ore pool.

3. Mining machine trusteeship: in the self-built mine + cooperative mine, we will also provide mining machine trusteeship services for customers of our own mining machines. The income of the trusteeship business is mainly the trusteeship fee.

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The advantage of project

GPO is the Token of interest of Galaxy Pool mine. Galaxy Pool is a project with solid physical resources. Galaxy Pool is affiliated with the Galaxy Pool foundation of Singapore and cooperated with KWJ, the largest storage miner manufacturer in the industry.As of August 1, 2019, the management scale of unbounded mining team exceeds 600PB.The mines are all over China's first-tier cities and second-tier cities. The multi-core fiber is directly connected to the backbone network of China NET, and the computer room is secured with 4G firewall cluster +2G black hole firewall as traction and the power supply environment is protected by three layers.Ensure the normal operation of the server, equipped with first-class fire protection, security, air conditioning, construction and other environments. In case of emergency, the personnel stationed in the computer room can respond within the first time to meet the different needs of users. CDN core computer room network is adopted.Setting up local Cache in different regions accelerates the access speed of different nodes and greatly improves the stability of the above mining nodes. The cluster can resist attacks on the widely distributed CDN nodes and the intelligent redundancy mechanism between nodes.It can effectively prevent hacker intrusion and reduce the impact of various DDOS attacks on the website, and at the same time ensure a better quality of service.In addition, Galaxy Pool also participates in some super nodes of storage mining projects, which can provide Galaxy Pool users with more energy saving benefits.In the future, Galaxy Pool will participate in more super nodes of storage projects with its powerful storage resources, which will provide sufficient support for the operation of Galaxy Pool.

Administrative organization

The Galaxy Pool project proposes a decentralized governance structure, which solves the governance structure problem of block chain.

The Galaxy Pool project is initiated and operated by the Singapore Galaxy Pool foundation, which is committed to the construction and governance of the Galaxy Pool project. The main goal is to ensure the sustainable development of the Galaxy Pool project, as well as the security and management effectiveness of fund raising.The organizational structure of the foundation consists of community governance committee, ecological construction committee and investor committee. The governance structure includes operational procedures and rules for daily work and special situations.The foundation is committed to the construction and governance of Galaxy Pool, with the main objective of ensuring the sustainable development of the project, as well as the security and management effectiveness of fund raising. In addition, an investor committee was set up to oversee the financial operations of the foundation.

Galaxy Pool adopts representative system, and the rules of Galaxy Pool are determined by the governance committee elected by all the coin holders.This is for the sake of efficiency, if everything is voted by all the holders, it will be unworkable.For professional reasons, rules need to be written by someone with professional competence, not to mention the substantive question of how the legal provisions define the purpose.It is not easy to maintain consistency between laws and clauses. Closing legislative loopholes and realizing the consistency of crimes and punishments are all very professional. It is also an inevitable choice for people with professional ability to legislate.All the rules are made by the community governance committee, which can recall the holder if the rules are against the interests of the majority of the holder.A referendum could be automatically held as long as a certain number of holders proposed it. Block chain ensures that this mechanism can be carried out in an efficient, low-cost and fair manner. From the initiation, holding and performance of voting results, it is automatically executed. Similar to EOS election super node, it is difficult for anyone to block or cheat.Such a mechanism would ensure that the governance committee was "substantially" in the interest of all stakeholders. "By and large" is a compromise between fairness and efficiency, and a governance committee cannot be reelected for occasional non-critical errors.

Through the above institutionalized design, it can be ensured that Galaxy Pool is a project that is constantly developed and improved, all the power is vested in all the currency holders, rules can be formulated efficiently and professionally, all rules can be guaranteed to be executed into code, and any mistake made by anyone has corresponding remedial measures. In this way, a completely decentralized block
chain project can be built, while its operation does not lose professionalism and efficiency.

Introduction of the Team

Engineer Zhang Mengyang

He is a former manager of multimedia business division of foxconn holding company. He graduated from Yuanzhi university in Taiwan with a master's degree in management.Responsible for enterprise virtualization cloud computing and cloud storage design, and security information industry implementation experience. And computer network background server management and program development, once assisted to import the international information security standard system BS799 and obtained the certification.

Steven engineer

Former manager of foxconn technology research and development department, graduated from Taiwan university information engineering department, won a master's degree in management, responsible for enterprise programming and information encryption, and computer network server management and program development.

DanielCOO

The chief operating officer of the enterprise has rich working experience in project management, scheme planning, market strategy, enterprise operation, team management and capital negotiation in listed companies for many years, and has several years of practical experience in distributed system development, management and block chain industry operation.With superb overall command, coordination, overall control of the operation ability. Unique vision, keen sense of smell, long-term commitment to cutting-edge technology and Internet technology innovation industry. Ethereum early miners.

Jun Tian network engineer

9 years of work experience as a network engineer, proficient in various processes of network engineers, proficient in the configuration of TCP/IP, RIP, OSPF, VLAN, BGP and other routing protocols.Proficient in the configuration of ACL, NAT, QOS, load balancing, re-release, policy routing based on various applications, proficient in the installation, configuration and use of VSphere, hyper-v and other virtual platforms, master the service and policy configuration of Linux and Windows system versions,

can independently write basic SQL, Shell and Python scripts, with C# programming ability.

William CFO

Many years of experience in financial management of listed companies, including financial control system construction and optimization, the consortium's comb and optimize the organizational structure, financial process and internal control and optimization, set up and implement of comprehensive budget system, intelligent the establishment and implementation of financial planning analysis, group funds, field large enterprise internal control and risk control management, and accounting firms, law firms, close interaction. Participated in the early investment of several blockchain projects.

Gangping Wang operations management

Mainly engaged in, server, router and other equipment management,IDC topology architecture,IDC room Linux business server configuration, protocol system, automatic operation and maintenance, large-scale cluster tool development, management.Network platform operation monitoring, maintenance, tuning, troubleshooting, security, performance evaluation and other work , who is a senior responsible professional IDC operation and maintenance management personnel.

Liangzhong He is an engineer

Familiar with integration architecture and software development architecture, proficient in virtual technology and real-time monitoring of these systems, proficient in Linux and Windows operating systems, proficient in Glusterfs network storage system deployment, proficient in j2ee technology system, proficient in ejb2.eib3.Servlet JDBC webservice.socket.jsp. javascript, etc.Familiar with iv vs load balancing, proficient in Oracle database system installation, maintenance, tuning and backup, Mysql database and Fabric cluster mirroring technology.Familiar with the development of Android environment software, and the construction of DHCP and DNS primary and secondary systems. Worked for dell.

Release notes

GPO Introduction

GPO, fully known as Galaxy Pool Coin in English, is a new way of issuing assets on the chain.GPO is a decentralized block chain digital asset based on erc-20 created by ethereum, which adopts intelligent contract to launch its first digital asset.In layman's terms, participants use GPO assets as mining machines to dig up various other digital assets and obtain the added value of GPO through the repurchase and destruction of mine pool profits.And this kind of brand-new on the chain asset issue way, can offer investor at any time withdraw and more accord with human nature investment opportunity.

The total number of GPO issued is 600 million, and it is guaranteed never to issue more. The main issuance plan is as follows: GPO issuance details
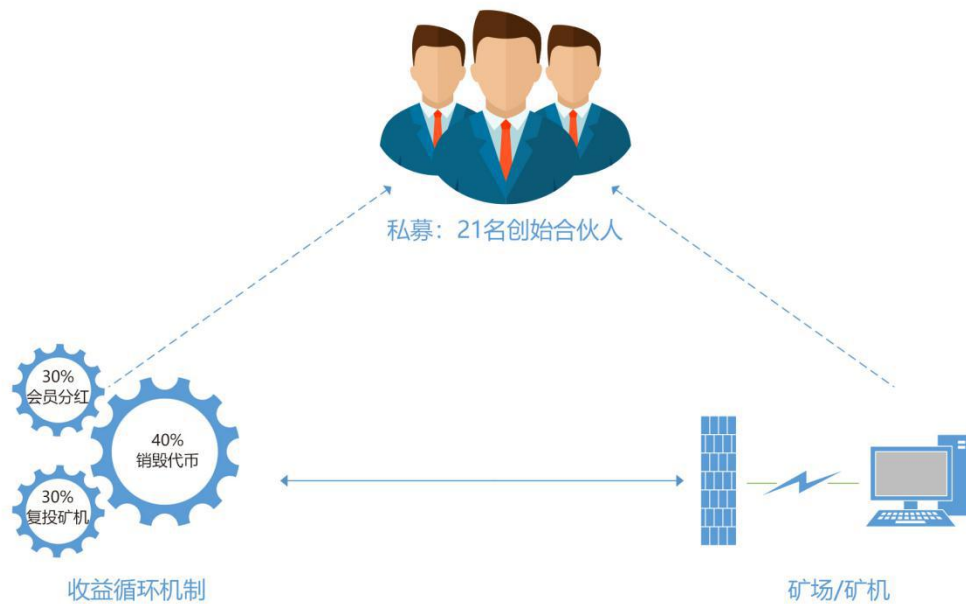
Allocation scheme allocation proportion

Purpose	instructions	Allocation proportion
Ore pool construction	Storage mining reward, used to attract and motivate users to join the ecological sub - 8 month linear release.	70%
Founding team	Team members' contributions to the development and operations process are released linearly over a period of 5 years.	15%
The foundation	For the daily expenses of the foundation and the community. Linear release in 5 years.	10%
The technical team	For Galaxy Pool technology development and late technology management.	5%
summation		100%

Release notes

[Repurchase mechanism] :

    1.The mine pool will spend 40% of the profit of the mine pool, buy back and destroy the GPO circulating in the market, and trade HASH HASH publicly in every quarter.

    2. The mine pool will take 30% of the profits from the mine pool and expand the construction of mine pool in every quarter.

    3. The mine pool will take out 30% of the mine pool profits in tokens, and distribute the COINS to the founding team that meets the standard in every quarter.

Disclaimer

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This document only for the use of a message, file contents are for reference only. Does not constitute any investment buying or selling advice, solicitation or solicitation to sell shares or securities in Galaxy Pool or its related companies.

This document does not constitute nor is it understood as an undertaking to provide any sale or purchase, any invitation to buy or sell, or any form of security, or any other form of contract or commitment.

Relevant intended users clearly understand the risks of the Galaxy Pool project. Once investors participate in the investment, they will understand and accept the risks of the project, and they are willing to bear all the corresponding results or consequences. The project team will not bear any project risks of asset loss caused by participating in the Galaxy Pool project.