SSVP

Super star universe profound

Immersive Interactive Virtual Ecosystem Based on Metaverse

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Foreword

The maturity of blockchain 1.0 represented by Bitcoin and blockchain 2.0 represented by Ethereum has made the blockchain out of the conceptual stage. At present, entering the era of blockchain 3.0, blockchain 3.0 is a blockchain application beyond the scope of currency and finance. It will be integrated with practical applications in various industries, allowing users to feel the true value of blockchain. .

Metaverse can be said to be the hottest concept in the entire blockchain industry, and even the Internet industry recently. However, it is not a new term born in the blockchain industry, but has entered the blockchain industry from the Internet circle, and concepts such as DeFi, NFT, and GameFi have spread rapidly.

Simply put, the metaverse creates an online virtual reality world where people can use VR devices to entertain, play games, work, and socialize in a virtual environment. The term first appeared in Neal Stephenson's Created in the science fiction novel "Avalanche" published in 1992, it refers to a state in which three modes of physical reality, augmented reality and virtual reality merge with each other in a shared cyberspace.

For example, in the movie "Out of Control Player", with the help of AR, VR, AI and other technologies, a virtual world that is very similar to the real world can be created. Each person has one or more avatars in the virtual world other than the physical world. Various activities such as socializing, entertainment, gaming, work, display, education, trading, etc. can be carried out at the same time. In virtual reality, there must be participants to complete the construction, so the creation of participants becomes an important part, and in order to create participants, it is necessary to create the benefits that can be obtained. In order to attract more participants into the virtual reality ecosystem, a form of compensation called NFT has emerged to open up the virtual reality era.

When the era of virtual reality comes, we can create characters that only belong to ourselves in the virtual reality, communicate with friends, and trade with virtual reality currency. The world is coming soon. At the same time, assets and influences in the virtual world are mapped to the real world, allowing the two worlds to become one.

On the basis of bringing together the world's top technical teams and community elites, the SSVP team has created the Super star universe profound, the SSVP project (www.coinssvp.com) - a blockchain-based virtual reality ecosystem that allows users to Create your own wealth empire in this metaverse virtual world.

In the Super star universe profound ecosystem, users can enter the virtual reality world through an immersive interactive interface. All users can interact with the realization through virtual reality with low threshold, and realize the dream linkage of value transfer and immersive experience. In addition, Super star universe profound will also be committed to creating an ecosystem of interconnection of all things based on platform tokens and virtual reality. Connecting to the web, making the virtual metaverse at its core more relevant and valuable by bringing people, processes, data and things together.

Catalog

Chapter I Overview of Project Birth Background

1.1 Blockchain and Crypto Markets

Blockchain, a distributed accounting technology, can allow all parties involved to build trust at the technical level, and has the potential to become the infrastructure for building a future value free circulation network, that is, the formation of the Internet of Value. Although the time of the widespread arrival of the Internet of Value is still unknown, from today's development, some local area networks of value have been gradually formed. In fact, in some specific fields, several partners or participants in the industry chain are jointly establishing a blockchain trust network. This value local area network is already in the process of implementation, not just a concept. A possible evolution path from the value local area network to the value Internet is: analogous to the development process of the Internet, the early stage is an independent local value circulation network formed by each industry according to its own needs, and the later stage is driven by the demand for cross-industry value exchange. and gradually form a large-scale, shared value free circulation network.

In 2021, trust will be even more valuable. Under the impact of the epidemic, the uncertainty of the global environment has increased, the original social order has been disrupted, the international political and economic situation has also undergone major changes, the anti-globalization thinking has further spread, countries have a sense of distrust of other countries and the supply chain is too concentrated The resulting vulnerability is even more severe. In this context, as a machine for transmitting trust, the value of the blockchain has become more apparent. From the results, blockchain technology has played a natural role in transmitting trust, helping industries realize digital transformation, building digital economic infrastructure, and liberating data productivity by virtue of its advantages of distribution, equivalence, difficult to tamper, and transparent mechanism. The advantages have gradually come into play in some distributed business application scenarios that require cross-border, cross-industry, and cross-industry collaboration, and the market scale has also grown rapidly.

At present, blockchain technology is regarded by many large institutions as a

major breakthrough technology that completely changes the way businesses and institutions operate. The technical foundation of blockchain is a distributed network architecture. It is precisely because of the maturity of distributed network technology that decentralized, weak centers, sub-centers, and shared, consensus, and shared organizational structures and business structures can be effectively established. .

In 2008, the birth of Bitcoin opened the door to the era of blockchain and encrypted digital assets. Due to the subversive design of "decentralization", in the past ten years, blockchain technology has stood at the forefront of the times and has been raised to a strategic height by countries around the world. Good progress has been made in landing. According to CoinMarketCap, as of 2021, there will be more than 11,000 types of encrypted digital assets in the world, and the asset scale will reach trillions of dollars at its peak. Compared with April 2013, the total size of encrypted digital assets was only US$1.5 billion. In the past few years, the market value of encrypted digital assets has grown thousands of times.

According to statistics, the number of encrypted digital asset investors is conservatively estimated to exceed 300 million. Although encrypted digital assets have achieved staged development, looking at the global economy and traditional financial markets, encrypted digital assets still have huge market space in the future. First of all, the trend of asset digitization has been formed. The Internet of Things, big data, artificial intelligence and asset security needs promote the digitization of assets. In the future, all assets will be digitized and can be confirmed and used in the network.

Secondly, the gradual maturity of blockchain technology and cryptocurrencies have inspired the national economic system. At present, many countries have issued national cryptocurrencies. The International Monetary Fund believes that central banks of various countries should consider issuing cryptocurrencies, while the United States, China, and Europe The central bank also does keep a close eye and active research on cryptocurrencies. At present, the penetration rate of encrypted digital assets investors is still extremely low. Compared with investments in stocks, real estate, and gold, encrypted digital assets have more investment value under the trend of asset digitization.

In the era of the digital economy, cryptocurrencies will play a more important role.

• Ability to reduce financial trust risk. Blockchain technology has the characteristics of open source and transparency. The participants of the system can know the operating rules of the system, verify the authenticity and integrity of the account book content and account book construction history, and ensure that the transaction history is reliable and has not been tampered with, which is equivalent to The accountability of the system is improved, and the trust risk of the system is reduced. For example, the blockchain can avoid the current frequent explosions, runaways and other events.

• It can improve the efficiency of fund payment, transaction and settlement. On the blockchain, the process of transaction confirmation is the process of clearing, settlement and auditing. The blockchain uses distributed accounting, all transactions are displayed in real time on a spreadsheet platform similar to global sharing, and the efficiency is greatly improved. The blockchain can improve the efficiency to the minute level, which can reduce the settlement risk by 99%, thereby effectively reducing the cost of capital and systemic risk.

• Can effectively prevent failures and attacks. The traditional financial model is centered on financial institutions such as exchanges or banks. Once the center fails or is attacked, the entire network may be paralyzed and transactions will be suspended. The blockchain is supported by many distributed nodes and computer servers on a peer-to-peer network. Any problems in any part will not affect the overall operation, and each node saves a copy of the blockchain data. Therefore, the blockchain has built-in business continuity, which has extremely high reliability and fault tolerance.

• Ability to increase automation levels. Since all files or cryptocurrency assets can be represented in the form of codes or ledgers, smart contracts and automated transactions are possible on the blockchain by setting up data processing programs on the blockchain. For example, a smart contract can write a set of financial contract terms into the agreement, guaranteeing the automatic execution of the contract and the default payment.

1.2 DeFi and Socialfi

DeFi (Decentralized Finance) is decentralized finance, which refers to financial behaviors that run on the underlying systems of blockchains such as ETH and Ethereum. DeFi uses smart contracts to allow digital assets to rebuild the traditional

financial order in the blockchain network, and create synergies with each other. DeFi uses smart contracts to allow digital assets to rebuild the traditional financial order in the blockchain network, and create synergies with each other. Typical applications include quantification, market making, lending, insurance, swap, liquidity mining, derivatives, machine gun pools, clearing and settlement using digital assets. With the prosperity of the DeFi market, its integration with new concepts such as games, social networking, and metaverse makes GameFi, Socialfi, etc. possible.

GameFi is generally called Game+DeFi, which adds financial realization to the game. GameFi presents financial products in the form of games, turns DeFi into gamification, game props derivatives NFT, introduces PK battle mode, increases user/player interaction, improves the fun, and earns while playing in the game. With the rise of more and more new concepts, in addition to integrating DeFi and Play-to-Earn properties, GameFi also combines the back-end DeFi with the inclusion of collectible NFTs, and users do not need to interact with hard-to-use or boring financial interfaces , but immerse yourself in a virtual world, earn money from gaming and invest in the ecosystem to help it grow.

DeFi has greatly enriched the gameplay of the crypto market, and GameFi has helped many blockchain and game enthusiasts to earn while playing (Play-2-Earn). Following the outbreak of DeFi and GameFi, the concept of SocialFi has also become active.

The full name of SocialFi is Social Finance, which is a combination of Social and Finance, that is, Social Finance. Social refers to the behavior patterns of content creation, interaction, and interpersonal relationships that we make on social media. Finance, on the other hand, realizes the value brought by these actions through specific channels to generate income.

Currently, one of the most important features of Web 2.0 is that users can produce their own content and interact with other users. However, these benefits are often concentrated on the more popular top creators in high-profile platforms. High traffic and high popularity bring high profits to these creators, and also bring more resources. And multiple resources can help these creators get exposure and bring more traffic and popularity. Therefore, with the inclination of resources and traffic, it becomes more and more difficult for ordinary users and new entrants to get enough exposure, and the traffic they create will be limited, and the income they will get will naturally be limited.

Web3.0, which is regarded as the next breakthrough of the Internet along with blockchain technology, is characterized by decentralization, that is, each user has his own data ownership, and is no longer monopolized by centralized Internet giants and control, to create a new Internet that respects the concept of "every individual value".

In GameFi, DeFi gameplay was introduced into blockchain games. Players earn profits by playing games, including completing levels and completing tasks. The introduction of DeFi has created a self-consistent economic system for blockchain games, and developers and players can jointly enjoy the profits brought by game development.

Similar to GameFi, in SocialFi, project parties issue specific tokens to allow general participants to connect directly. Participants bring more token benefits to themselves through their own social relationships and the influence of content creation. At the same time, with the help of decentralized blockchain technology, the content belongs to the creator; and by creating a token economy, value transfer can also achieve the purpose of decentralization. The content produced by users can be directly rewarded by other audience users, and through the likes, comments, forwarding and other indicators of audience users, it can also bring systematic token rewards to creators. Through the above series of ecological interactions, the situation in Web 2.0, such as Internet companies monopolizing most of the resources, controlling advertising commission income, and small traffic creators being restricted by the company and unable to get exposure, may have the opportunity to be broken.

Compared with the current hot DeFi and GameFi, the SocialFi sector is still in an early stage of development, and many projects have not yet been widely promoted and used. However, through blockchain-related technologies to ensure the open and transparent operation of all economic activities and create a complete economic ecosystem, it is hoped to break the dual revenue monopoly of the platform for creators and high-profile creators over ordinary creators, which SocialFi values   and highlights. personal value can also be further reflected. With the development of related technologies such as metaverse virtual reality, SocialFi may also derive more existing modes and gameplays that are not limited to Facebook, Twitter, Instagram, etc. to meet the needs of creators and create an unprecedented social world.

1.3 Metaverse Virtual Reality Application Overview

Looking back at the development of the Internet, from the PC LAN to the mobile Internet, the immersion of Internet use has gradually increased, and the distance between virtual and reality has gradually narrowed. Under this trend, virtual reality or the "ultimate form" of the Internet, where immersion and participation have reached their peak.

Technically, on the basis of the traditional Internet, the Metaverse has put forward higher requirements in terms of immersion, participation, sustainability, etc. Therefore, it will be supported by many independent tools, platforms, infrastructures, protocols, etc. run. With the increasing maturity of technologies such as AR, VR, 5G, and cloud computing, the Metaverse is expected to gradually move from concept to reality. From a functional perspective, Metaverse Virtual Reality is a three-dimensional space that carries virtual activities. Users can socialize, entertain, create, display, educate, trade and other social and spiritual activities. Metaverse provides users with rich consumption content, a fair creation platform, a reliable economic system, and an immersive interactive experience. The Metaverse can entrust people's emotions and give users a sense of psychological belonging. Users can experience different contents in the virtual reality of the Metaverse, make friends in the digital world, create their own works, and conduct social activities such as transactions, education, and meetings.

With the iterative development of VR devices, the Internet of Things, and artificial intelligence, one day humans will open the door to parallel worlds through the metaverse. We believe that the application of the metaverse can achieve application breakthroughs in the following aspects:

1) Leisure and entertainment

Metaverse's system will provide users with a large number of on-chain entertainment projects to satisfy everyone's spiritual life. The experience of games in virtual reality will be better. Therefore, a large number of investment opportunities will be born in the entertainment field. Games will attract a large number of users, while virtual reality will also increase user stickiness.

2) Investment and wealth management

With the increase of investors' digital assets, financial products will be needed

to meet everyone's asset allocation. On-chain financial innovation projects such as DEFI (decentralized finance), insurance, and trust are worthy of attention. DEFI has far-reaching significance for virtual reality. A decentralized and efficient and autonomous financial system can accelerate the construction of virtual reality. Users can freely control various financial activities of assets on their own chains, and everyone's financial operations are not restricted by geography, economic level, and trust. The combination of DeFi and NFT can expand to the content, intellectual property rights, records and identity certificates, financial documents, etc. of the Metaverse virtual reality, and can create a transparent and autonomous financial system that can accommodate more diverse assets and more complex transactions. The construction of virtual reality civilization.

3) Consumer shopping

In the Metaverse Era, new consumer groups have a high degree of overlap with labels such as "emphasis on experience, pursuit of individuality, and willingness to explore", and commercial entities need to have a sense of story, substitution, interaction, difference, and immersion, so as to meet the needs of new consumer groups .

4) Work Entrepreneurship

The building block SaaS system based on blockchain token may be a good direction. In the future, each company's office system will be built foolishly according to its own strategy. According to the corporate culture, there will be different spatial forms. Everyone is in the company. In the space created by yourself, you can freely extract the information you need and upload the value you create.

5) Exercise and fitness

Exercise and fitness will be carried out regardless of the weather. You can start using fragmented time at any time and anywhere without the need for a venue. Online robot coaches can guide your movements through somatosensory equipment and monitoring indicators, and guide you according to each person's physical condition.

6) Art Collection

Art collection can be a hobby or a profession. The issue of authenticity on the

blockchain may no longer be the main problem that plagues collectors, and transactions on the blockchain will also be more convenient. Under the application scenario of art collection, the entrepreneurial projects related to artwork NFT deserve the attention of investors.

7) Consultation and treatment

More and more patients have online consultation records on online medical platforms. These consultations are mainly in the form of text and pictures. This requires patients to provide enough accurate information so that doctors can make a correct diagnosis. In the future, we can use XR technology to scan patients' body data in virtual reality scenarios, and patients will have more in-depth communication with doctors in a virtual space.

8) Education and training

A more immersive educational experience, so that students can feel the same feeling as in school at home. Building the classroom on the virtual reality of the metaverse may be more able to achieve education equity and improve the effect of education.

9) Social gatherings

In the future, through the entrance of the metaverse virtual reality, the way of online dating and communication may change. Different dating scenes can be set, and even different makeup and virtual digital clothing can be set according to different people. The epidemic has swept the world, and the holographic projection meeting method can greatly reduce the contact between people and improve the efficiency of work. Combining VR and the Internet of Things can better capture user behavior, thereby bringing users a more immersive experience. User settings can use voice or gestures on any device to interact with other players in the metaverse virtual reality.

1.4 Fusion of Blockchain and Metaverse Scenarios

With the upgrade and iteration of the underlying technology of the blockchain, it will provide more stable support for the realization of the metaverse virtual reality

space. Blockchain can solve the problems of Identity and Economy; VR can solve the problem of Immersive (immersion), 5G and cloud computing can solve the problems of Anywhere (anywhere) and Low Friction (low latency); open UCG content production As well as game modes, it provides a problem-solving idea for solving Variety (diversity), Civility (civilization) and Friends (friends), which together form a complete metaverse solution.

The value of blockchain in metaverse virtual reality:

1) Payment and settlement system

The basic features based on blockchain include not easy to tamper, open and transparent, P2P payment, etc. In the virtual reality of the metaverse, the economic system will become the key to realizing large-scale and persistent operation, and blockchain technology will provide virtual reality with a network virtual space due to its natural "decentralized value transfer" feature. A seamless payment and clearing system.

2) Smart contract deployment

Due to the openness and transparency of the blockchain network itself, smart contracts have excellent characteristics such as automation, programmability, openness and transparency, and verifiability, so that trusted interactions on the chain can be performed without the need for a third-party verification platform. If the financial system in the virtual reality is built on the blockchain, the characteristics of smart contracts can be used to decentralize the contract in a programmatic, non-custodial, verifiable, traceable, and trustworthy manner, thereby It can greatly reduce harmful behaviors such as rent-seeking, corruption and black-box operations that may exist in the financial system, and can be widely used in finance, social networking, games and other fields.

3) NFT non-fungible tokens

As mentioned above, the biggest feature of NFT is that it is both indivisible and unique, so it is very suitable for marking exclusive and indivisible rights and assets, and can be freely traded and transferred.

We believe that the Metaverse is a highly interconnected virtual and reality, closed-loop economy attached to an open-source platform. Although there is no

detailed description of the final form of virtual reality in the industry, we can still determine the four core attributes of virtual reality by refining its characteristics:

• Synchronization and immersion. The virtual space maintains a high degree of synchronization and intercommunication with the real society, and the interaction effect is close to reality. Synchronization and simulation of the virtual world are the basic conditions for the formation of virtual reality, which means that all events in the real society will be synchronized with the virtual world, and users can get feedback information close to the real when interacting in the virtual reality.

• Open source and create. Open source also means open source technology and open source platform. Virtual reality encapsulates and modularizes the code to different degrees by formulating "standards" and "protocols". Users with different needs can create in virtual reality to form a native virtual world. , constantly expanding the boundaries of virtual reality.

• Sustainability. Virtual reality platforms do not "pause" or "end", but operate as open source and continue indefinitely.

• Closed-loop economic system. The user's production and work activities will be recognized in the platform's unified currency. Players can use the currency to consume content on the platform, or exchange the real currency through a certain percentage. The economic system is the engine that drives the continuous progress and development of virtual reality.

We believe that the integration of blockchain technology and the virtual reality of the Metaverse can provide an ideal state for the landing of the Metaverse, that is, a social system with an extremely immersive experience, a timeless social system, a rich and colorful content ecology, and a combination of reality and reality. Economic system and super-large digital community that can mirror real human social civilization.

Chapter II Super star universe profound project

2.1 Project Overview

Based on the integration of concepts such as blockchain, DeFi, NFT and Metaverse, the virtual reality has more value support. Therefore, the Singapore SSVP Ecological Development Foundation is actively deploying, using DAO as the governance model, and using the Metaverse virtual reality. Taking the immersive ecology of environment + real scene mapping as the landing goal, a blockchain-based metaverse virtual reality ecosystem - Super star universe profound metaverse platform has been created.

Super star universe profound is an immersive interactive space that integrates social, entertainment, business, shopping, games and other attributes realized in virtual reality. It uses the world's most advanced 3D creation engine to build a replica in the virtual reality world. Various scenes in the real world, such as cities, streets, real estate, commercial streets, etc., the visualization effect greatly improves the user experience, and people can experience immersive content in different scenes in this space, such as communication, chain business shopping, time and space shuttle and earning income. Let users create their own wealth empire in the virtual world through the metaverse.

Super star universe profound hopes to create the ultimate virtual reality center each, focusing users in an immersive and engaging environment - for the first time ever, users can access encrypted information and immersive content in one place, and get Different levels of blockchain educational resources, virtual business resources, realistic gaming experiences, and anything else imagined through virtual reality experiences. As a platform, Super star universe profound will provide users with the ability to display, share, trade and allow users to create secondary creations in the virtual space of the metaverse.

- Showcase: Rendering through VR and AR, allowing users to view more detailed realistic IP. Among them, AR supports virtual objects to be attached to the real environment, providing a virtual and real experience similar to that of a player who is out of control in a movie; virtual characters are projected into real life to complete preset actions and interact with elements in the real environment.

• Secondary creation: After the user buys the avatar, he can customize it, (for example), for example, put a virtual scarf he bought on the avatar to generate a unique avatar with personalized matching , and this secondary creation product has an NFT anti-counterfeiting certificate.

• Sharing: Users can project their purchased virtual IPs into the real world through AR. Users can interact with avatars and post photos or videos of the content to the community, or they can post their secondary creations in the same way to share.

• Transaction: Cooperative virtual IP holders, not limited to companies or individuals, can carry out commodity listings and transactions on Super star universe profound. In the future, Super star universe profound will also create more social scenes with immersive experience, such as virtual real estate and virtual exhibitions.

In addition, in terms of specific functional modules, Super star universe profound has created applications such as Socialfi and virtual shopping malls, which will make the experience in virtual reality more realistic and interesting. In these applications, Super star universe profound will combine virtual reality with virtual reality. With the integration of physical industries, users can experience the same as the actual experience, and can visit all the places they want to visit without going out. At the same time, NFTs of different projects can be received into our parallel world, and we only support 3D characters and commodities.

In the exploration of virtual reality, Super star universe profound will be the first stage of interaction by issuing commands through mouse and keyboard devices and touch operations to operate computers and mobile phones and other devices; through gesture interaction, voice interaction and other technologies to carry out human-computer interaction, The second stage of the interaction of intelligent experience; the third stage of full-body tracking and whole-body sensing through virtual reality and augmented reality technology for a better immersive interactive experience is gradually realized, allowing Super star universe to profoundly change the world.

As the key to open the virtual reality world, devices such as VR/AR are currently becoming the best presentation carrier for virtual reality. In the 5G era, cloud technology + AI provides an infinitely growing technical soil for virtual reality, and the immersive interactive experience brought by virtual reality will have the

opportunity to change the form of the Internet. With the gradual improvement of the infrastructure for creating virtual reality, the arrival of virtual reality will be faster and faster, and the prototype of virtual reality based on the existing infrastructure has actually appeared.

Based on this, the application of Super star universe profound metaverse world will also have more support, and as the benchmark of metaverse, Super star universe profound will provide technology landing scenes including VR, AR, MR, XR, ER, etc. Support, in order to drive the accelerated arrival of the virtual reality era.

2.2 SSVP Chain Game Ecosystem

As a platform focusing on the application of the metaverse, Super star universe profound will first establish an SSVP chain game ecosystem, allowing users to obtain a full range of income guarantees in the SSVP chain game.

1) SSVP Chain Tour Guarantee System

When users participate in SSVP chain games, the comprehensive guarantees we provide include:

• Game asset trading: SSVP Chain Games has a secure and free decentralized trading system composed of multiple high-performance nodes. The nodes of the exchange can be expanded and adjusted at any time, providing users with 24/7, real-time, safe and stable free matching or directional trading Serve. The cross-regional acceptance gateway group provides currency exchange and consumption services for game assets circulating in the exchange. In addition to providing game users with automatic acceptance system construction services, SSVP Chain Games also accepts them as transaction node service providers to jointly maintain the transaction network.

• Democratic game environment: All game data on the SSVP chain, including game item reward probability, random event parameters in the game, player matching balance values, etc., inherit the immutable characteristics of the blockchain system, and benefit from the underlying The efficient processing power brought by the framework perfectly solves the unfair problems of low transaction

efficiency and game oligopoly of most game platforms. At the same time, the SSVP chain game chain game ecosystem will open up more than 90% of the source code of the core system on Github.com, the world's largest third-party open source site. Global users can witness the open, transparent, safe and reliable attitude of the SSVP chain game system.

- Digital asset access: SSVP Chain Games will establish a new asset circulation and admission mechanism to determine the game assets that are already in circulation in the market and request for circulation in SSVP Chain Games through assessment, user volume evaluation, and sample user voting. Whether to admit new assets or not, the admission of all new assets will be based on the premise of maximizing the security of user assets.

- Diverse incentive system: SSVP Chain Games aims to establish a high-quality Metaverse Chain Games incentive ecosystem, with activity and contribution as the standard to measure the amount of user benefits. At the same time, through the generation, circulation and value fission of the platform token SSVP, the user can maximize the value of revenue. All business behaviors on the SSVP chain game need to be driven by basic tokens. These tokens are recovered by the system in the form of handling fees and deposited into the fund pool for rewards to users who contribute to the entire system and the entire network. Ways of Token include but are not limited to: participating in games, trading game assets, providing node verification support for the entire network, and actively participating in operating communities, etc.

- System security: The mutually redundant nodes cooperate with the connection quality detection/link selection procedure, so that the SSVP chain tour is sufficiently high-performance, safe and robust, and can effectively resist access pressure, theft risk and node failure. At the same time, nodes are deployed in many countries and regions, and third-party node operators are accepted to provide safe and stable uninterrupted game services.

2) SSVP chain game development ecology

Super star universe profound hopes to carry the value fission of the digital asset economic model through the model of NFT + metaverse + SSVP chain game, and help developers and players achieve better interest consistency:

- Under the support of the bottom layer, the application development

framework of various operating systems and various blockchain environments;

• Provides fully scripted, componentized and data-driven application development tools;

• A high-performance application-oriented, using existing toolset, closely integrated with the blockchain interface layer, so that all games can easily support the blockchain.

• Realize the NFTization of game assets and props in the metaverse, so that anyone can participate in the generation, production, investment and collection of NFTs, so that each participant in the game can obtain better value.

In the future, Super star universe profound will continue to expand the multi-ecology including game data storage cloud platform, distribution platform, item trading platform, NFT asset exchange and Super star universe profound incubator. Advertisers provide complete blockchain solutions to build a complete ecosystem. SSVP chain game derivative function developers can also create blockchain applications through the platform toolset, and obtain comprehensive metaverse service support through other platforms.

2.3 Social ecology in the metaverse

From DeFi, NFT to GameFi, blockchain technology seeks to be applied, and new outlets are constantly emerging. At the moment when web2.0 turns to Web3.0, SocialFi may become the next outlet. In the Super star universe profound metaverse, the traditional social model will be completely subverted, and an innovative SocialFi social ecology will be built. Users can create virtual characters in the Super star universe profound metaverse, and meet together for social activities such as shopping, games, and consumption.

Each user has a virtual identity in the metaverse of Super star universe profound, and they can publish content. Super star universe profound will recommend users and information through AI algorithms based on users' social portraits and interest graphs. Based on this, each user can establish a new social relationship in the metaverse. This kind of social interaction is no longer "nearby" to

a physical location, no longer aimed at "adding a friend", and no longer a mapping of offline social relationships. This higher-dimensional virtual social network is what Super star universe profound calls "social virtual reality".

Super star universe profound will break through the limitations of time and space, and expand the scope of our friendship. In Super star universe profound, using holographic virtual imaging technology, we can achieve a huge restoration of the real scene, and at the same time borrow some auxiliary equipment, can Greatly improve user experience and increase user stickiness. Compared with virtual social networking, Super star universe profound metaverse social interaction advantage is more obvious, more like a combination of online social networking and offline social networking.

In addition, the Super star universe profound team believes that what SocialFi shows is the display of personal value. Only by empowering the creative content and social influence produced by a single person can more individuals benefit from the creator economic system. Only the value ecology can develop and expand. Therefore, in the SocialFi social ecology supported by the Super star universe profound metaverse, a complete self-negotiation economic system is built for users, and everyone can get benefits through their own value. Players can independently build a social ecology based on blockchain and VR, and can earn income by creating content, making Super star universe profound a hybrid of social media platform and NFT market.

Super star universe profound SocialFi social ecology has built a complete ecology, mainly carrying three layers of innovative value:

• Social layer: Social to Earn, earn as you follow. Super star universe profound users first establish social connections through investment strategy subscriptions, which are more sustainable based on on-chain reputation.

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

- Core layer: Invest to Earn, earn while investing. Whether it is earning while following or earning while investing, for virtual reality explorers, Invest to Earn is the most efficient way. This is also the most important result of investment strategies. In the core layer of the Super star universe profound metaverse , creators will tokenize their investment strategy content, not only to attract subscribers to learn the content, but also to allow followers to participate in investment, thereby providing high-value liquidity to the market, among which professional investors "navigators" are indispensable.

Super star universe profound The primary incentive for the metaverse is to empower creators to consistently produce high-value SocialFi models. The virtual reality ecology also requires intermediate inviters to be responsible for mining, screening, and matching, so as to attract more participants to subscribe to high-quality SocialFi participation strategies, and invitees will also receive corresponding incentives.

2.4 NFT application of virtual assets

In the Super star universe profound metaverse, all assets will have NFT attributes correspondingly, and the value of assets circulating in the form of NFT will be higher. We will solve the problem of authenticity of virtual IP through NFT technology. Each commodity will be cast with NFT certificate to ensure uniqueness and traceability. NFT holders can also choose to extract NFT from Super star universe profound to their own blockchain wallet . At the same time, for third-party projects to access the Super star universe profound metaverse, NFT will be the entry condition.

Each virtual product in the Super star universe profound metaverse is an NFT, and NFT gives the virtual product real ownership. Brands can officially issue NFTs for virtual goods, such as NFTs for wearable and usable tools such as virtual clothing and handmade products, and many more. Some branded product NFTs can achieve a one-to-one correspondence between physical and virtual products through QR codes. Users can hold both physical and virtual products. At the same time, players can independently cast NFTs, such as avatars, virtual clothing designed by clothing tools, 3D model buildings that meet technical standards, furniture, decorations, artworks, music, videos, etc.

In order to realize the efficient circulation of NFT assets in the virtual reality, in Super star universe profound, we will help high-quality projects, users, investors, related institutions, etc. to conduct primary issuance, trading and circulation of NFT assets. Through the Super star universe profound metaverse, users or players can buy NFTs before they flow into the secondary trading market, so as to get a better entry price or the priority right to experience the project earlier. For example, users can directly participate in the market subscription on the Super star universe profound metaverse platform, so as to obtain a better entry price or the priority right to experience the project earlier.

In terms of secondary market liquidity, Super star universe profound metaverse secondary market will rely on the huge traffic of the community to help users solve the problem of secondary market liquidity. Buyers and sellers can freely trade on the NFT secondary market.

In terms of GAS fees, compared with general NFT trading platforms, Super star universe profound has no user threshold and no distribution restrictions. At the same time, the Metaverse transaction fee is 0, which perfectly solves the problem of excessive gas fees. In addition, for the NFT minted in the Metaverse, the data is stored in the decentralized storage network, which ensures the persistence and immutability of the data.

In the future, with the first-mover advantage and the continuous accumulation of network effects, Super star universe profound will surely become a comprehensive NFT circulation platform covering the widest range and the most digital commodities. The field of NFT trading continues to be deeply cultivated and has formed an irreplaceable dominant position.

2.5 Service support for users

In the super star universe profound metaverse parallel world, users have the opportunity to experience more than just playing games, shopping, socializing, trading, investing, etc. Unlike using traditional electronic devices such as mobile phones or laptops to access virtual reality, Super star The scenes provided by universe profound with virtual reality are richer. In addition, the Super star universe profound metaverse parallel world will provide new participation support, such as:

learning education, monetization, gaming, and content creation.

1) Learning education

Cryptography can be a challenging industry for many players, requiring in-depth knowledge and knowledge in many areas. The Super star universe profound metaverse aims to "educate oneself in the crypto world", establishes associations with various top platforms, and becomes an open center for users to learn more about the crypto industry.

Not only that, with the help of the virtual reality of Super star universe profound, remote sessions can be turned into interactive, virtual in-person experiences, and colleagues can meet in the virtual meeting room (or office) of the Super star universe profound skyscraper without having to Connect on the phone. Imagine that instead of looking at faces in front of a screen, you walk into a venue and meet Vitalik Buterin or another industry luminary in the lobby, maybe even more realistic than you think.

2) Make money and profit

Super star universe profound will be a place to provide users with the opportunity to make money, all users can buy virtual properties in the virtual reality world and profit from pledge, advertising and other passive income. Users can trade and lease virtual properties, which incentivizes them to speculate on virtual real estate, which can then be resold for profit or rented out for passive income. In addition, when some partners place advertisements within the Super star universe profound, platform token holders can also get part of the advertising fees.

3) Games

Gaming is an important part of the user experience, and through the Super star universe profound metaverse, users can play games, entertain friends and network in a truly immersive first-person perspective. The top layer will invite players and users to participate in the game and compete for platform token rewards.

4) Content Creation

In the Super star universe profound, users get builder tools to create their own scenes, artwork, and challenge events that earn token rewards. For more

experienced creators, the software development kit can also support building social games and applications.

With the advent of the post-epidemic era, more and more scenarios and use cases in the physical world will be completed online. As people invest more time and energy in the virtual world, user habits will gradually become online, and production and lifestyle will be Subtly, profound changes will occur, and the value recognition of the virtual world will continue to increase, which will pave the way for the landing of the Super star universe profound metaverse from the technical and cultural levels.

Chapter III Technical System

3.1 underlying system architecture

With the support of Ethereum technology, the Super star universe profound metaverse platform has a total of six layers of infrastructure: data layer, network layer, consensus layer, incentive layer, contract layer and application layer.

1) Data layer

Based on the highly redundant storage mechanism of the blockchain, the blockchain storage has a certain impact on the scalability and performance of the blockchain. The Super star universe profound framework is designed with a multi-level node system. According to different node applications, select Different storage strategies (distributed accounting).

2) Network layer

The P2P protocol (P2P Protocol) supports the data transmission and signaling exchange of each node in the blockchain network, and is an important communication guarantee for data distribution or consensus mechanism. Super star universe profound system design supports a variety of P2P protocols, communication mechanisms and The configuration of the serialization mechanism can be used flexibly according to different scenarios. In terms of communication security, it flexibly supports protocols such as HTTPS, TLS, WSS (Secure Websockets), and can expand the authentication integration supporting OAuth when establishing an external service interface for platform applications.

3) Consensus layer

With the support of Ethereum technology, the Super star universe profound consensus algorithm realizes the integration of the advantages of various mechanisms and creates a new type of consensus system. Therefore, Super star universe profound has the characteristics of high performance and high consistency, and is more suitable for weak central upper-layer applications with frequent mining, payment, and transaction data generation and high real-time accounting requirements.

4) Incentive layer

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

5) Contract layer

Super star universe profoundly conducts complete and controllable process management for the submission, deployment, use, and cancellation of smart contracts, and integrates the authority management mechanism for comprehensive security management of various mechanisms of smart contract operations.

6) Application layer

The application layer will provide a general transaction protocol, support multi-language integration and function expansion, and support multiple languages   such as Java, JavaScript, Python, etc., and has been fully suitable for Super star universe profound network expansion.

3.2 Application APP Development Architecture

The Super star universe profound application APP is developed based on the MVVM architecture, which can reasonably respond to the increasingly complex demand changes, so as to quickly iterate the specified functions without affecting the functions of other modules.

The front-end uses the Coredata relational data recommended by Apple, and the server-side also uses ORM object-relational mapping to accurately connect the front-end transmission through Redis and PostgreSQL databases. As the core functions in the App, 3D and AR display technology using Apple's official RealityKit technology, combined with the excellent front-end display features of the

underlying ARKit and SwiftUI, allowing developers to perform different tasks in image rendering, camera effects, animation, physical effects, etc. Under the premise of falling below the standard, do more augmented reality development such as physically-based hyper-realistic rendering, skeletal animation, spatial audio and rigid body physics.

At the application layer, Super star universe profound adopts a top-down design method, first focusing on the design of the blockchain protocol, solving the problems of data standardization and multi-chain interoperability in the application; secondly, defining a general blockchain system The component model realizes the loose coupling and pluggability of specific functional components, and solves the needs of custom expansion in the application according to the specific situation; finally, based on the standardized blockchain protocol and component model, it provides a specific virtual reality platform implementation and Related tools and development kits provide tools for the rapid realization of commercial-grade virtual reality applications.

1) Blockchain protocol

The super star universe profound application APP system protocol is the top-level architecture design, which defines the data format standard of the blockchain, including the data standards of the ledger status, historical proof, ledger operation set, and contract instruction set.

2) Component model

The "component model" is the framework model of the blockchain logic components, and the realization framework of the underlying system protocol of Super star universe profound. It includes four components: consensus network, ledger, persistence engine, and contract engine.

3) Service Model

The "service model" is the specific implementation of the upper-layer blockchain protocol and component model, consisting of gateways, services, node networks, SDKs and a set of tools.

3.3 Ledger Protocol

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

The standard format of ledger data consists of two parts:

• "Ledger status" indicates the current real-time data content;

• "Proof of History" represents the characteristics of the ledger data and the characteristics of the data change history.

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

• "Ledger operation set" defines the standard representation of the type of write operation to the ledger data and the standard format of the parameters;

• "Contract instruction set" defines a standardized contract language instruction format.

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

1) Ledger status

The word "state" here is a concept in the computer field, here it represents the state of the blockchain system at a certain time, which is composed of the business data saved by the system and the control attributes of the system operation.

The "ledger state" of the underlying system of Super star universe profound consists of "identity", "KV data", "authority", and "contract code".

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

• "KV data" is the representation of ledger data, uniquely identified by the key

(Key), and recorded by the value (Value);

- "Contract code" represents the logic of state change, represented by a sequence of contract instructions;

- "Permission" is the access control code of "Identity" to "KV Data" and "Contract Code".

2) Ledger operation set

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

- Identity registration

- Status data read and write

- Contract deployment

- Contract invocation

- Permission settings

3) Contract instruction set

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

3.4 Component model

" "Component model" is a logical functional module design and a logical framework for implementing the ledger protocol. It defines the standardized interface of components, so that the implementation of the blockchain system that follows the component model has the characteristics of loose coupling and pluggability.

1) Consensus network

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

- Transaction proliferation;

- Transaction ordering;

- call the trade execution program;

- Consensus on transaction execution results;

- Submit consensus results.

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

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

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

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

Starting from the characteristics of industry-oriented commercial-level

application scenarios, we select an algorithm similar to POW+POS mechanism, and optimize on this basis, providing the characteristics of deterministic transaction execution, Byzantine fault tolerance, and dynamic node adjustment. The consensus network components of Super star universe profound are designed according to the idea of   modularization, encapsulated based on the above general stages, and abstracting the scalable standard interface.

2) Ledger and contract

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

3) Persistent storage

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

4) Contract engine

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

3.5 Service Model

The service model functional modules of Super star universe profound are divided into four parts: blockchain gateway, blockchain node service, blockchain consensus network, and supporting tools.

1) Blockchain Gateway

The "blockchain gateway" is designed as a lightweight gateway system, usually

deployed in the participant's network environment, providing functions including:

- Private key management: provide fully localized private key custody;

- Privacy protection: use end-to-end encryption to achieve privacy protection;

- Protocol conversion: Provides a lightweight HTTP Restful Service and a blockchain node API that adapts to the TCP protocol.

2) Blockchain node service

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

- Application-oriented account management;

- Authentication and authorization of accounts;

- Object-oriented ledger data access framework;

- Event notification mechanism;

- Smart contract management.

3) Blockchain consensus network

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

4) Tools

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

3.6 Platform Performance

The bottom system of Super star universe profound supports dynamic adjustment of network topology, and realizes dynamic joining and active exit of nodes. At the same time, users can also choose a non-Byzantine consensus protocol with better performance according to their own needs to improve the operation efficiency of the entire blockchain. In order to cope with diverse business scenarios, meet information security requirements, and improve business throughput, the underlying system of Super star universe profound supports multi-chain architecture. Unrelated businesses run on multiple parallel blockchains, which provides the Super star universe profound with the ability to scale linearly for businesses. For the interoperability between multiple chains, Super star universe profound adopts the relay chain mode, participating in the relay chain nodes in all directions to submit proposals, and the results are confirmed after consensus.

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

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

• Adopt a flexible data storage structure to support the separation of hot and cold data;

• Support dynamic joining and exit of nodes to achieve high availability of the system and ensure uninterrupted business operation.

3.7 underlying system functions

Super star universe profound adopts a general event-driven model framework. Access to AKKA's Actor model, a higher abstraction of the concurrency model. Use lightweight transaction processing to achieve fine-grained component reuse from the event level.

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

- Support user real-name and authentication;

- Support enterprise data governance;

- Supports an event-driven business collaboration model;

- Support multiple ledgers to manage on-chain data by business dimensions.

1) Ecological security

- Pluggable cryptographic algorithms, which can flexibly formulate corresponding cryptographic systems;

- The platform implements multiple sets of cryptographic algorithms by default, including national cryptographic algorithms and hardware encryption devices.

2) Smart Contract

- Support reusable smart contracts;

- Supports debugging functions for smart contract languages.

3) Application compliance

- Support CA-based account authentication;

- Support access to supervisory nodes;

- Support data filing.

3.8 Improved NFT Asset Protocol

1) Improved non-fungible digital asset (NFT) data structure

Non-homogeneous digital assets (NFT) is a type of digital assets used in distributed accounting networks. Asset instances are unique. By optimizing the structure of non-homogeneous digital assets (NFT), it can be used more flexibly. in blockchain online games.

Super star universe profoundly redesigned the data structure and added custom data storage to accommodate possible game data and expansion content. At the same time, key processes such as consensus, witness, and block generation are also adjusted accordingly to match the new data structure. The prop data in the Super star universe profound is only recorded in the block data when it is generated and its attributes are changed. During ordinary transactions and transfers, only the hash pointer is recorded to ensure that the volume of the block data will not be changed due to long-term transactions. fast growth.

2) Data separation of assets and contracts

On-chain storage of homogenous, non-fungible assets (NFTs) and smart contract data is separated. There will be a large number of ongoing transactions in the profound network of the Super star universe. It is necessary to reduce the computing cost of asset analysis and circulation as much as possible. The separation of assets and contracts can realize the separate analysis and execution of contracts and the operation of necessary results on the chain.

Under the design of the separation of asset and contract data storage, the asset owner has all the permissions of the asset, and the operation of the asset can only be completed by the owner's authorization. It can avoid the situation of destroying asset properties or calling other people's assets by modifying the contract content because the asset contract is not separated, and it is easier to realize the cross-chain acceptance of non-fungible assets (NFT) without considering the constraints of contract factors. Therefore, assets Separating from

contracts is a safer design.

3) Security guaranteed by modern cryptography

The full name of the ECC algorithm is Elliptic curve cryptography, which was proposed by Neal Koblitz and Victor Miller in 1985. Modern cryptography technology is a cryptography technology based on mathematical principles. It has been widely used in various industries in the Internet field. Common symmetric encryption technologies include AES encryption used in WiFi, and asymmetric encryption algorithms (public and private key cryptosystems) RSA, ECC, etc., of which ECC (Elliptical Encryption Algorithm) is a commonly used encryption algorithm in the blockchain field. These algorithms use mathematical principles to design an encryption and decryption system with unacceptable computational consumption to prevent encryption from being broken. On the premise that the key is not obtained correctly, attempts to crack such encryption algorithms will take too long to implement due to the excessive computational load (usually it takes nearly a hundred years to try to crack/guess the key system). Lose the value of cracking behavior.

3.9 Multi-chain, cross-chain system

In recent years, the popularity of the blockchain has brought about the prosperity and development of the DAPP ecosystem, but as we all know, most DAPPs are facing the same dilemma: the existing blockchain performance on the market cannot meet the enterprise-level high concurrency, large Scale application requirements. It is specifically manifested in the following aspects:

• The immutability of the blockchain itself is necessary in some applications, but the increasing ledger data makes the blockchain network nodes bloated and cumbersome, which consumes storage resources and causes storage expansion.

• The type of blockchain nodes is highly homogenized, and the execution speed is slow, resulting in a transaction scale and transaction speed that are far from the requirements of high concurrency and high response speed for commercial applications.

• The existing smart contract programming requirements are high, and the

business expression ability is not enough, and there is no suitable solution for large and medium-sized enterprise applications.

Therefore, Super star universe profound is extended on the basis of Ethereum cross-chain, and a high-performance bottom layer that supports multi-chain and cross-chain is designed to solve the problem of parallel computing.

1) Multi-chain architecture

The existing blockchain platforms are basically single-chain, that is, the entire blockchain network has a unique main chain, but the single-chain often does not meet the actual production standards in practical applications.

First of all, in terms of performance, the performance bottleneck problem of a single chain has not been solved yet. The public chain represented by Ethereum still has the problem of transaction blocking, resulting in a long delay in transactions. In addition, the application layer tends to be more complicated. requirements, such as business isolation for related businesses. Under one main chain, multiple derivative chains will appear, sharing part of the business pressure of the main chain. In addition, business isolation can also be achieved through the derivative chain, such as the artwork traceability business and the transaction business as two different derivatives. The blockchain performs business processing, which not only meets the complex business requirements of the application layer, but also improves the performance of the blockchain network to a certain extent.

Super star universe profound intends to solve the compatibility problem of different public chains by integrating the advantages of Ethereum and other cross-chains, and developers can call the smart contracts of Super star universe profound in different public chains. However, it is conceivable that in the technical cooperation of public chains, it is easy to be restricted by the public chains with poor performance. Therefore, Super star universe profound adopts the "relay node technology", which divides the link by adding relay nodes. This improves link capacity and efficiency.

In addition, Super star universe profound uses cross-chain technology to solve the problem of data incompatibility in the community and avoid the situation of closed public chain data. In addition, due to the existence of cross-chain characteristics, Super star universe profound supports cross-chain calls of non-native Tokens, such as BNB, ETH/ERC20 and other tokens, making the platform

more cross-platform.

2) Cross-chain information exchange

Super star universe profound adopts IPLD (InterPlanetary Linked Data) as the cross-chain data exchange structure. IPLD is a standard data model proposed by the Protocol Lab (IPFS team). IPLD is a data model of the decentralized web. data and make it easy to exchange and link data.

IPLD components include:

• CID: Self-describing content-addressable identifier for distributed systems.

• IPLD tree: A cross-protocol data model based on JSON, Protobu, and path navigation designed to easily interoperate with parsers related to pluggable formats.

• IPLD Resolvers: IPLD resolvers can introduce new systems into the IPLD protocol.

It can be seen that IPLD is mainly responsible for the definition of data, that is, functions such as naming, file data exchange, etc. In addition, IPLD can regard all hash-linked data structures as a subset of the unified information space, and connect all data with hashes. The data model is unified into IPLD instances. Therefore, in terms of cross-chain, IPLD can be used as the middle layer of data exchange to realize data exchange between different blockchains and realize cross-chain data exchange.

3.10 System technical advantages

Super star universe profound hopes to build a set of bridge-style virtual reality application platform that can connect with real world assets, allowing users to create their own wealth empire in the virtual world by combining with metaverse virtual reality. In order to realize this vision, Super star universe profound has made corresponding layout in the bottom design and top application.

1) Quick verification in seconds

Through the optimization of key links such as signature algorithm, ledger structure, data operation, serialization, consensus mechanism, and message diffusion, Super star universe profound will achieve rapid verification in seconds. Satisfy the user experience of physical scenarios under most blockchain applications.

2) Storage of massive financial data

The double-entry accounting mode of the blockchain, in the continuous use of the system, accumulates a large amount of data, resulting in a decrease in the running speed. Super star universe profound will realize the separation storage, sub-table storage mechanism, and realize the mass storage of data.

3) Increase in throughput

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

4) Fast synchronization of node data

Super star universe profound will develop a mirroring mechanism, which can regularly mirror the local ledger to realize a convenient rollback mechanism. Under a unified consensus, mirror tags can be specified for rollback. At the same time, the cycle for newly added nodes to join the operation is shortened, and it only needs to synchronize the latest image and a small number of recent transaction sets to integrate into the network and participate in consensus verification.

5) Data access control strategy

Super star universe profound provides two types of permission control strategies for data information writing and reading. Data information write permission, set up multiple users under the same account, and set corresponding permissions for different operations to meet the usage scenarios of multi-party signature control. Data information read permission, the user can grant and revoke

the data operation permission for a single user or user group, and the user group can be flexibly configured by the user. The data includes user account information, transaction information, etc. The granularity can be refined to various attribute fields of transactions or accounts.

6) Diversified expansion development

The profound blockchain structure of Super star universe can meet the needs of different business fields and improve the scalability and maintenance efficiency of the system. It can be used to mark assets and asset transfers, provide multi-dimensional event records that cannot be tampered with, and can also be used for traceability to track the flow of financial assets.

7) Visual operation and maintenance support

Super star universe profound will provide the visualization tools required for operation and maintenance management. System monitoring services deployed on nodes: support business (blocks, transactions, contracts, consensus, etc.), network (networking, delay, throughput, etc.), data information monitoring at the system level (CPU, memory, disk, etc.); At the same time, it provides a complete log, alarm and notification mechanism to facilitate the maintenance of financial commercial systems.。
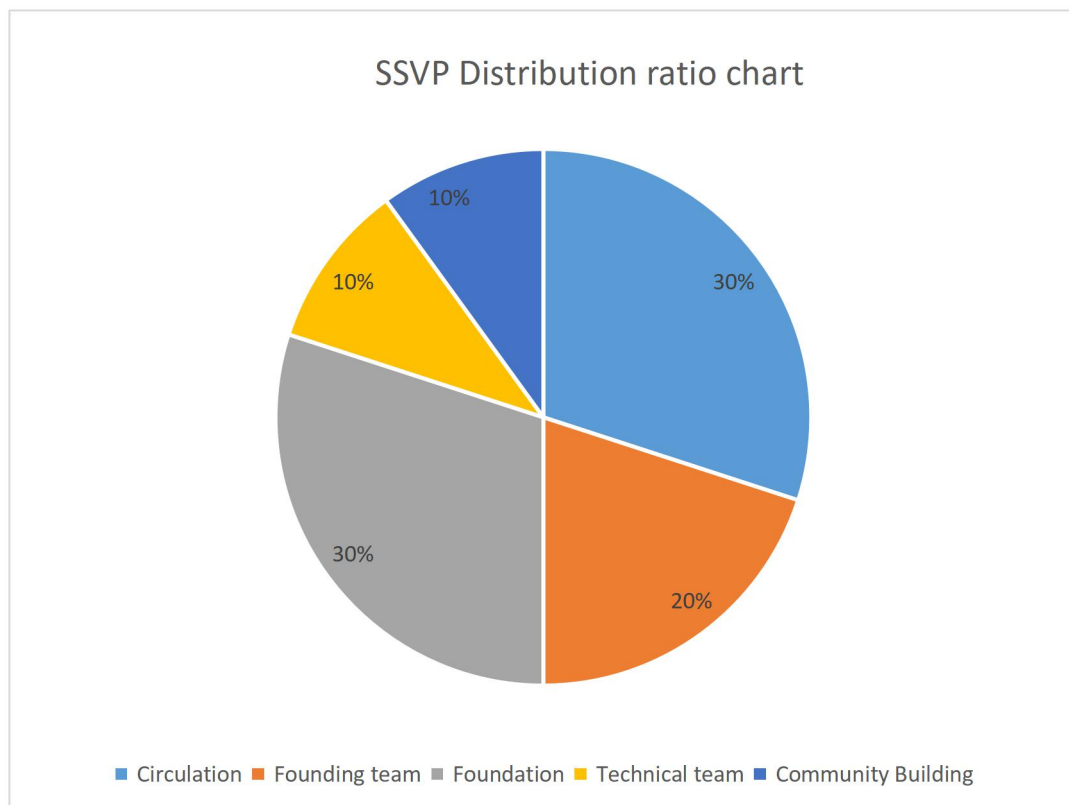
Chapter IV SSVP Token Economics

4.1 SSVP Token Issuance and Distribution

Total circulation of SSVP: 1 billion

Private sale price: 0.0014USDT

ICO time: March 1, 2022 to May 31, 2022

Token distribution: 30% circulation, 20% founding team, 30% foundation, 10% technical team, 10% community building

SSVP Distribution ratio chart

The SSVP token will provide a value carrier for the Super star universe profound metaverse and the Internet of Everything, drive the realization of virtual and network interconnection, and make network connections more relevant and valuable by combining people, processes, data and things.

In the future, after the SSVP token is launched on major global exchanges, the value and price will increase, and user income will continue to increase. Overall, the

value, incentives, governance of SSVP tokens and the security of the Super star universe profound have profound logic, reflecting the value characteristics of SSVP:

• In terms of value, SSVP condenses the carrier of "trust value" and "consensus value";

• In terms of incentives, SSVP is an economic reward that motivates the participation of "bookkeepers" in the network;

• From a governance point of view, SSVP is a certificate of equity for participating in the network;

• From a security point of view, the existence of SSVP value incentives improves network security;

• In terms of revenue, SSVP is the embodiment of value revenue in the virtual reality token mechanism.

4.2 Acquisition and circulation of SSVP

1) How to get

The methods of obtaining SSVP include but are not limited to:

• Value Creation: Includes (A) contributions to the creation of digital assets in virtual reality. For a single digital asset, the distribution of platform incentives is proportional to the value of the asset created by the participants, and inversely proportional to the duration of the Super star universe profound platform and the total asset value of the system. The contribution of the value of digital assets, that is, the creation of assets that reach a certain fee and asset circulation scale can obtain SSVP;

• Platform Contribution Rewards: Users who contribute to the SSVP community can get SSVP. In the initial stage, we issued SSVP based on the historical contribution of the developer community (code contribution points to the virtual reality engine, online community interaction points, etc.). In the later stage, the platform will use various forms such as bounty tasks and free assets to encourage

developers to develop new functions, upgrades, bug fixes, testing and other community behaviors on the platform;

• Chain game asset circulation: SSVP tokens can be obtained by selling NFT assets acquired in the SSVP chain game. The incentives of this part are related to virtual gameplay and economic system, and are determined by developers and market laws;

• Behavioral Incentives: A variety of effective behaviors in the Super star universe profound metaverse space, community and SSVP chain games will be exchanged for SSVP according to a certain degree of contribution. For example, users register platform accounts and participate in various interactions in the community to obtain SSVP. The platform confirms whether the user's behavior is effective by analyzing the dimensions of access validity, information integrity, and behavior rationality, and issues incentives for SSVP;

• SSVP consensus work contribution reward.

2) Value circulation of SSVP

As a value medium in the Super star universe profound ecology, SSVP has a wider circulation value, which is reflected in the following aspects:

• On the basis of Super star universe profound metaverse network, many applications will be derived. SSVP chain games, social networking, virtual shopping malls, blind boxes, lending, entertainment, education, tourism, commerce, real estate, etc., all use SSVP as a means of payment for participation.

• After the SSVP token is listed on the exchange, it can be exchanged with all digital currencies, and supports the circulation and payment of various links in the virtual reality ecosystem, such as receipt and payment, transfer, legal currency transaction, currency deposit, currency withdrawal, currency allocation, mortgage, All circulation transactions such as public welfare and game malls use SSVP as the medium.

• SSVP can realize settlement with global legal currency.

• For users, SSVP can be used for various consumptions in virtual reality and real world. At the same time, it can also be used as a basic means of cross-border

payment, so as to bring more benefits to itself. When SSVP is connected with the global mainstream platforms, gamers can enjoy the wider convenience of global entertainment and leisure brought by SSVP.

In terms of versatility, the underlying network of Super star universe profound can adapt to more diversified business needs and meet data sharing across business chains through continuous improvement and business model exploration. The recording method of data has enough common and standard, can represent various structured and unstructured information, and can meet the cross-chain requirements required as the business scope expands. And this provides more value flow basis for the generality of SSVP token.

4.3 DAO Community Governance Model

Through the development process of the industry, it can be seen that the rise of NFT and the Metaverse has given the industry greater support. In addition, the popularity of GameFi and SocialFi has also made DAO, which has been silently contributing core values to the industry, embraced by users.

Super star universe profound knows that in order to promote the development of the metaverse, there needs to be a perfect governance model that can better realize the internal circulation and decentralization of value. Therefore, Super star universe profound is innovating on the DAO model.

1) SSVP DAO governance form

Under the leadership of DAO, Super star universe profound community governance organization - SSVP Dao, will achieve complete decentralization and a high degree of community consensus. The new decentralized autonomous organization initiated by SSVP Dao belongs to the category of dedicated DAO. The community has a strong consensus and is 100% self-managed by the community. After the project goes live, the community will vote to develop its own decentralized applications and DAPPs.

The global community building of SSVP Dao follows a high degree of decentralization and is carried out through a combination of on-chain and

off-chain models. After all the programs of SSVP Dao are set up successfully, it can start running according to the original rules. In the process of operation, it can also continuously maintain and upgrade itself according to the actual situation. Through the continuous self-improvement mechanism, it not only eliminates the trust problem, but also achieves an unprecedented level of collective coordination, thus forming the technical foundation of SSVP Dao.

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

2) Governance elements of SSVP Dao

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

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

- Community Development Matters

- Proposal on token economics

- Important model parameters of SSVP DAO

- Cooperation and development of SSVP DAO

- Marketing activities

- Exchange and cooperation

- Other matters related to marketing strategy

In the future, SSVP holders will be able to fully control the SSVP DAO and decide on matters such as development direction, market expansion plans, technology roadmaps, asset security, and ecological incentives.

3) DAO governance introduces DeFi pledge

The SSVP DAO is still in its early stages, and community members are not yet familiar with the DAO governance mechanism. Therefore, SSVP DAO will adopt the DAO principle of "governance earning" in the early stage to encourage and attract more users to actively participate in DAO governance. Before participating in DAO governance, players need to stake a certain amount of SSVP to gain voting rights. In return, users can earn rewards for voting and the proposal process.

- Users who pledge more than a certain amount, such as 100 SSVP (pending), have the right to initiate proposals. If half of the staking users agree, the proposal will officially enter the DAO governance stage.

- Each user can vote at least 10 SSVPs (to be determined) at a time, and there is no upper limit. 10 SSVPs correspond to 1 voting weight, and the proposal with the highest voting weight shall prevail.

- After each round of DAO governance, the SSVP consumed by the successful proposal with the highest voting weight will be returned to the users who voted on the proposal. The SSVP consumed by failed proposals will be fairly distributed to users participating in successful proposals according to the voting weight.

- All participating users can get 7% SSVP staking reward.

DAO uses parliamentary voting to protect DAO members and community nodes. Any community member can act as a proposer. SSVP DAO will be a voluntary, self-organizing, self-governing blockchain community. It is not a company or entity owned by a handful of founders and investors, but a borderless organization owned by those who contribute to it. Ownership, power and control are in the hands of all community members. Everyone can make a difference, regardless of their abilities and experience. Every community member committed to development and a shared mission is equal. Community members are welcome to initiate proposals, participate in discussions and vote on the following platforms.

Chapter V Global Team and Development Planning

5.1 Global team

With the support of the Singapore SSVP Ecological Development Foundation, most of the core technology R&D team members of Super star universe profound come from top international blockchain projects and well-known Internet companies. It brings together the industry's best technical experts in various fields such as computer, information security, games, communications, mathematics, finance, web development and high-frequency algorithmic trading. At the same time, team members have market and practical experience in DAPP development, DeFi, NFT, Metaverse, Chain Games, GameFi, SocialFi, VR/AR, etc. They not only have strong technical capabilities, but also have excellent scientific research capabilities. The field has achieved outstanding results.

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

Naomi Matsumoto - a famous Japanese blockchain software development engineer, responsible for the cross-platform transplantation of mining algorithms for virtual currencies such as Bitcoin and ETH, and the development and management of mining machine software. It has accumulated rich industrial experience in the technical architecture of virtual digital currency wallets and virtual digital exchanges.

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

Jimmy Wong - MS and PhD in Electrical Engineering and Computer Science, National University of Singapore. His research involves data mining, e-commerce

data and algorithm optimization. Responsible for the construction and optimization of artificial intelligence algorithms for the project.

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

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

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

5.2 Project development plan

1) start-up period

Set up a Super star universe profound R&D team, clarify business development needs, determine design ideas, and formulate preliminary development and operation plans:

• SSVP token issuance, white paper, roadmap, audit, cmc, token application model launch, etc.;

• The Super star universe profound platform is completed, and the metaverse virtual reality ecology is initially established.

2) Development period

Metaverse ecological research and development expands more cross-chain ecosystems on the basis of the Ethereum public chain. Third-party developers can also use our system to easily and efficiently create virtual reality-based applications:

  • SSVP chain games, SocialFi, virtual shopping malls and other applications are online, users can complete virtual and real tours;

  • The platform currency is listed on the international mainstream exchanges, and the issuance and distribution and in-depth ecological construction are started.

3) Mature period

Create a new ecology of blockchain + metaverse + immersive interactive experience, and provide comprehensive blockchain solutions for players, metaverse content providers, channels and advertisers. Users can participate in various virtual reality DAPP applications on the platform through the Super star universe profound identity.

In the future, Super star universe profound is determined to create more application ecology and token value models on the basis of the commercial application of the Metaverse, to create brilliance together with global users, and to create our own decentralized Metaverse ecology and DAO community consensus.

5.3 Project implementation support

Super star universe profound will realize the implementation of blockchain network + virtual ecology through the metaverse virtual reality conceptual model. This is not only to provide a technology, but also to provide a service model and solution, which will further improve the Internet industry. Development has played an extremely important role in promoting. The future of the Metaverse will be "Internet of Everything + Interconnection of Ten Thousand Chains". Super star universe profound is driving the arrival of the era of the Internet of Everything with the support of powerful technologies, resources, governance, and communities. In the process of Internet of Everything + Interconnection of 10,000 Chains, the Super star universe profound token will play the role of the core link.

Adhering to the concept of applying the concept of virtual reality to more scenes, Super star universe profound will open a new era of value Internet. Benefiting from the advantages of continuous development and innovation of technology, extensive commercial applications, and refined governance, Super star universe profound metaverse business value logic and support are competitive in the following aspects:

• Technology: Super star universe profound has very mature and powerful technical support, and has accumulated rich industry and technical experience in blockchain, games, artificial intelligence, NFT, metaverse, VR/AR and other fields. Industry-leading breakthroughs have been made in the development and application of the underlying technology of the chain. The Super star universe profound team is a perfect gathering of veterans from multiple industries, many years of practical operation experience, and deep insights into the development of the industry.

• Industry resources: Super star universe profound will sign strategic cooperation agreements with top leading companies in the target industry, which will provide strong support for entering the target industry, so as to truly promote the actual implementation of Super star universe profound+ metaverse applications.

• Business Governance: Different from general projects, Super star universe profound has a clear and definite strategic plan for the target industry, and continues to empower free, fair and high-value ecological prosperity in the form of an autonomous community. Super star universe profound is more dedicated and professional to use the distributed decentralization, immutability and encryption security of blockchain technology and the characteristics of point-to-point transmission of value to penetrate the target industry and quickly gain market share.

• Fund management: The fund management of Super star universe profound will be under the leadership of SSVP DAO, strictly abide by the principles of fairness, justice and openness, and take the development of the project as the primary purpose. Safety and Sustainability. All funds used will be disclosed to all investors on a regular basis to ensure the openness of the use of funds.

• Development space: The target industry of Super star universe profound is the trillion-level market. The development team effectively manages general affairs,

code management, financial management, compensation management, and privileged operating scope by formulating a sound governance structure to ensure sustainable development.

In the future, Super star universe profound will fully absorb the advantages of blockchain 1.0, blockchain 2.0 and blockchain 3.0 projects, solve their outstanding problems and technical defects, and build on the metaverse virtual reality conceptual model. A new era of a more prosperous interconnected metaverse.

Super star universe profound metaverse era will provide a blockchain network for various virtual value transmission applications, and support various practical applications to land in the metaverse virtual reality in different forms. At the same time, the oriented application scenarios are not limited to the application of digital currency represented by Bitcoin in the context of blockchain 1.0, the financial field that combines digital currency and smart contracts in the context of blockchain 2.0, and not limited to blockchain 3.0 Application attempts in the fields of government, health, culture and art; blockchain 4.0 and virtual reality network based on Super star universe profound will become the infrastructure of many industries, forming a perfect industry ecosystem based on blockchain, It will change people's way of life extensively and profoundly.

In the future, Super star universe profound will completely reshape the operating model of the existing Internet, turning the economic incentive system itself into a system that can circulate within the system, creating a completely decentralized Internet value transmission ecosystem, which is also a completely open Community ecosystem, transcending national borders, so that every participant can obtain the corresponding value in the metaverse.

Chapter VI Disclaimer

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