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5AI White Paper
**The world's first artificial intelligence chained
community project**



1. Summary

Over the past decade, the rapid development of artificial intelligence has comprehensively covered all aspects of human life aspect. Autonomous driving will open a new travel economy; the world's top chess players are AlphaGO wins; IBM's Watson is analyzing a large number of Medical imaging; Amazon uses AI to optimize and manage a huge logistics system. We are at During the outbreak of artificial intelligence.

Advances in artificial intelligence require large amounts of data, and each of us is already connected A lot of data is left online. In the future, there will be more data on the blockchain. use our own data on the internet and blockchain to generate our own personal artificial intelligence Yes (5AI). Let everyone have their own artificial intelligence, let everyone manage their own management, serve yourself, form a point-to-point artificial intelligence network, and humans will form methods and systems for effectively driving and managing artificial intelligence.

5AI is committed to creating a new generation of intelligent IoT public chain. This is a DPoR based(Randomness of commissioned verification) A new intelligent IoT platform for consensus algorithms, it will point-to-point artificial intelligence is integrated with the underlying computing of the blockchain, and is conceived to be in the real world. The trusted devices of IoT terminals in the world and the sensors of future machines

are connected, so that the massive data and resources on the blockchain are effectively analyzed and utilized.

At the same time, a 5AI-IoT platform built on the principles of IoT-friendly design. It is a complete ecological closed loop, including three major sections: the Internet of Things smart economy, the Internet of things. Internet instant messaging and IoT service ecosystem. First, we will digitally Combination of technology and intelligent virtual identity to create a new digital economy-Artificial intelligence-based intelligent economic system for the Internet of Things, and 5AIPeer-to-peer network commercial closed-loop IoT is about to establish 5G signal services Facility-based instant messaging platform, users from all over the world can in the circle, tokens are used for social, business cooperation, value exchange, etc., and ensure that a series of issues such as the security and privacy of user information.

5AI instant communication based on point-to-point peer-to-peer network while ensuring user privacy and data. According to ownership. Anonymous authentication through unique consensus algorithms and custom usernames. By the way, users will retain ownership of personal information, data and communication transactions. User can build your own community or have a one-on-one conversation with other users. These contents will be private and confidential. This network will allow customers to pass send information, call, video, file transfer, etc. for seamless P2P (end-to-end) communication, and can improve users in communication, identity management and

unlimited secure communication. Trading experience. Through distributed blocks, 5AI networks can fundamentally relieve security risks in current Internet communication systems and will continue to adopt exclusive and New security technologies.

2. Industry background

2.1 Industry Overview

According to US Statista and Tractica statistics, 2016Global artificial intelligence industry market size is \$ 643.7 million and will reach 2025\$ 36.8 billion. As of the third quarter of 2016, global AI startups has 1,287 companies, of which 585 have received investment, and the total investment amount has reached 77US \$ billion, of which US investment exceeds US \$ 3.1 billion. Blockchain technology has been implementedGlobal application deployment, all countries are paying close attention to the development of blockchain, and plan the application of blockchain. Blockchain technology exchanges almost barrier-free value, will change the way we record and access certain types of data. The ability to quickly analyze massive amounts of data will generate a new kind of highly intelligent STATIC SYSTEM.

Thousands of artificial intelligence startups around the world are gaining momentum. And Branch Compared with technology giants, the competitiveness of startups lies in the segmentation of artificial intelligence. In combination with its own characteristics, carry out in-depth research, exploration and corresponding product development. Thousands of artificial intelligence startups around the world are gaining momentum.

And tech giants in contrast, the competitiveness of startups lies in the subdivision of artificial intelligence, combining personal characteristics, carry out in-depth research, exploration and corresponding product development; blockchain as an innovative and disruptive technology, it can effectively empower startups, combining human intelligence will produce high-intensity synergy effects with great prospects.

2.1.1 In the field of technology

From the century Go battle of ALPHAGO and Ke Jie to the official launch of driverless vehicles On the road, the application of artificial intelligence gradually involves all aspects of daily life. Artificial "Intelligence" is the theory that researches, develops, simulates, extends, and extends human intelligence, a new technology science of methods, technologies and application systems. "For example, as the core of artificial intelligence, smart chips have become major technology giants. Focus area for head layout. Traditional chip giants such as Intel and Nvidia join hands in ValleyGe, Microsoft, Qualcomm and other companies occupy half of the smart chip.

From iPhone Siri to Microsoft's "Xiaobing", speech recognition technology is widely used in medical, Education, Internet, electronic information, office and other industries. It is worth mentioning that despite speech recognition has high technical barriers, but given the different languages DFX has the world's leading Chinese speech recognition technology. With picture recognition technology with the development of cloud computing, the security system will also transform from passive defense to early

warning intelligence. Can defend. Intelligent public security management system, intelligent traffic management system, intelligent building management. The management system is continuously developing in a more efficient, accurate, and broad direction.

According to the technology maturity curve forecast released by Gartner in 2017, artificial intelligence will be the most disruptive technology in the next 10 years, everywhere "AI +" will become the mainstream. Thousands of AI startups worldwide are accumulating Ready to go. Compared with tech giants, the competitiveness of startup tech companies is intelligent subdivided fields, combined with its own characteristics, conduct in-depth research, exploration and corresponding product development.

2.1.2 At the level of industrial development

An industrial revolution is taking place in various countries. National strategic deployments such as manufacturing, British Industry 2050, etc. The key point of the revolutionary competition of the chemical industry points to Industry 4.0. Today, the world is already in a post-industrial state with overcapacity, innovation and cost problems such as pressure have gradually increased. In this form, we begin to look at new industries. The production model to solve the problems that have emerged has given birth to Industry 4.0. Industry 4.0 The era of intelligence is the automation technology and architecture of the "Industry 3.0" era.

Based on this, the production mode from centralized central control to decentralized enhanced control is realized. Change, using sensors and the Internet to interconnect production equipment to form a mass production mode that can be flexibly produced and meets individual needs. Industry the connotation of 4.0 lies in real-time sensing and monitoring massive data generated during the production process to achieve intelligent analysis and decision-making of production systems, The production process has become more automated, networked, and intelligent. Collaborative network manufacturing and large-scale personalized customization have become the new format of production. Solve the original question. Problems, avoid risks, improve security, a new working model and definition, let it more adapted to the requirements of development, this is the industrial revolution, but also a revolution in the mode of production. In the future, human society will become more intelligent, and artificial intelligence will be applied in various industries. Energy, block chain and other advanced technologies, a large number of enterprises are facing change, which will bring huge momentum for economic growth and innovation opportunities. Automated operations will be replaced by intelligent operations, and the cost advantage is not only reflected in the production the reduction in labor costs after the production line upgrade is more reflected in the digitalization of upstream and downstream integration reduction of production materials and operating costs due to deployment system and lean and customized production low.

2.1.3 At the level of social public services

Blockchain technology is penetrating into social security, intellectual property and public administration domains, mainly focused on four areas: identity verification, forensic authentication, information sharing and transparent governance. The UK government released the first 2016 distributed ledger technology: Beyond Blockchain Report, which explores the role of distributed ledgers in government Critical applications in business. Subsequently, the United States established the "Core Blockchain of Congress Group ", Russia, Singapore, Dubai, Japan have all accelerated the development of blockchain technology will apply. In the basic idea of distributed consensus, the transparent open source of blockchain technology and under the influence of social collaboration, public services have achieved the overall change in management thinking helps to increase public participation and reduce the cost of social operations to improve the quality and efficiency of social management, and to improve the level of social management and governance Level plays an important role. Changes brought about by the combination of artificial intelligence and blockchain technology Revolution, which will cover all application areas, including the traditional Internet, will usher in major changes Into.

2.2 Industry Pain Points

Artificial intelligence came up with concepts at the Dartmouth Society in the 1950s, After years of vigorous development, it has shown broad development prospects. From large numbers Data, cloud computing, and deep learning, artificial intelligence

can not only let machines substitute humans to work in dangerous places or places beyond human power. Of course, language recognition and understanding technology has surpassed humans, and began to It is widely used in the fields of customer service, automated customer service, etc., and is also marching toward simultaneous interpretation. Even more It is important that various applications based on deep learning have achieved excellent application results As a result, human society is being transformed from the information age to the intelligent age. In the cloud Driven by computing, big data, and deep learning, IBM Continued technology accumulation, and its achievements have been discussed in more than a dozen industries. Application, from the initial information industry to medical, environmental protection, investment, insurance, and purchase, law, fashion, games, etc., to provide a more complete solution for related users case.

Artificial intelligence has penetrated into all aspects of modern human life. Major economies such as Russia and Russia are scrambling to invest in artificial intelligence. It has become a new area of global competition. The powerful power of artificial intelligence has gradually emerged. A strategic layout of future core competitiveness. United States was founded in May 2016 by United States" Machine Learning and Artificial Intelligence Subcommittee" managed by the National Science and Technology Commission; From October to December 2016, the United States White House successively released Get Ready, the National Artificial Intelligence Research and Development Strategy Plan, and three artificial intelligence development reports,

Artificial Intelligence, Automation and Economics. United Kingdom, Japan, Singapore and other technology powerhouses have also issued key reports on artificial intelligence. Report, national strategy, want to take the lead in the tide of global artificial intelligence development, Seize the historical opportunity of a new round of industrial technological revolution.

Currently, the intelligence-related industries are facing tremendous pressure for transformation. On the one hand Rapid increase in labor costs, overcapacity, fierce competition, and increasing customer demand Growth and other factors are forcing manufacturing companies to shift from low-cost competitive strategies to establishing differentiation Competitive Advantage. At the enterprise level, they face difficulties in recruiting workers and lack of professional technicians. There is tremendous pressure to reduce staffing and increase efficiency, and there is an urgent need to advance the construction of smart industries. On the other hand, the Internet of Things, collaborative robots, additive manufacturing, predictive maintenance, Emerging technologies, such as camera vision, are rapidly emerging to promote the construction of smart industries and smart cities. The design provides good technical support. Together with the strong support of many world powers, More and more large and medium-sized enterprises in various industries have begun the journey of intelligent industrial construction.

2.2.1 The cost of data collection is high, and it is easy to form a data island chain For

the future of Industry 4.0, not only the data intelligence within the industry is required. The need for interoperability, coordination and cooperation between different industries in different regions of the industry chain. It is the basis of industrial cooperation. But the current status of the industry is some in the industry chain. Powerful factories have been digitalized, but most small and medium factories are not. For small and medium producers to join Industry 4.0, the production of data is based on the companies they rely on. This pair of small and medium-sized enterprises is a high-risk, single-function investment for producers. Of large companies provide their own production data and have no other use, if large companies and them after the cooperation is terminated, the data may be invalidated. For SMEs, Easy data acquisition cost is too high. Looking at most manufacturing companies, each IT system, each the business department is still operating independently, and the R & D, design, production, sales, marketing and other departments. The door IT system is not fully integrated, and the operation process has not been integrated. Increase the communication cost of enterprises and reduce production efficiency; extending from the industrial chain, suppliers, enterprises, customers, and consumers are still in a state of fragmentation. The requirements cannot be matched well, and the terminal products are also passively accepted. The business has brought great trouble.

2.2.2 Credit problems of relevant participants are increasingly prominent related industries in terms of production capacity, personnel mobility, technical capabilities, operating data, and item flow there is no unified platform for notarization of

communication links such as sales and product sales, and it is difficult for enterprises. Identify the credit rating of partners. The process of verifying and verifying a partner's credit will undoubtedly take Spend more time, money and energy. For SMEs, hidden costs at the same time, some opportunities for cooperation with large enterprises will be lost.

2.2.3 Centralized Platform , Centralization Centralized data platforms bring great value to all industries, but also exist There are obvious disadvantages. There are obvious disadvantages to the centralized digital system:

1) The data information of the centralized data platform cannot be unified. Due to industry standardization, Enterprises in various regions and industries determine corresponding data references based on self-built databases. The data information obtained from the data platform is also different. Lack of platform data for industries Standards are one of the main obstacles to the rapid development of the intelligent industry;

2) It is difficult to guarantee the privacy and security of transaction information. The largest centralized data platform. The risk is that once the platform is subject to technical attacks, information is tampered with or stolen, and it is impossible to ensure the safety of users, many aspects of data are important assets of the enterprise. The information was leaked and misused, with unpredictable consequences;

3) It is difficult for a centralized data platform to ensure the trustworthiness and openness of data sharing. The flow of information creates and generates value, and the data flow is subject to tampering or theft after the pass, the adopters may suffer financial losses. Data sources for centralized platforms. There is no guarantee of its authenticity. In addition, the data openness and commonality of the centralized platform. The enjoyment is not high, the timeliness of information is not strong, the data cannot be circulated in a timely manner, However, it cannot create value and cannot meet the needs of participants.

3. Project Overview

3.1 Design principles

5AI's goal is to become a privacy-conscious and scalable person in the Internet of Things Intelligent IoT platform. In order to achieve this goal, A series of challenges, the architecture design of 5AI will follow the following principles.

3.1.1 LoT Friendly As mentioned earlier, the IoT world is full of heterogeneous systems and nodes, their calculations Power, storage capacity, and power consumption vary. Because strong nodes can easily complete weak nodes Operations that can be completed, so we should optimize blockchain operations with weak nodes as the design goal make. For example, operations need to be lightweight in order to save computing power, storage space, and related resources such as energy.

3.1.2 Separation of Duties It is not realistic to directly connect all IoT nodes into a single blockchain of. In addition to different IoT applications requiring different blockchain property settings in addition, in a single blockchain, the burden of too many IoT nodes on its scale and computing power the requirements have skyrocketed, which is too heavy for IoT devices. Instead, separation of duties can be Ensure that each blockchain interacts with a specific group of IoT nodes. Only then interact with other blockchains. This is similar to the structure of the Internet. The device first forms an internally connected group, the internal network. Smaller internal network and then form a larger internal network that eventually connects to the Internet hub and communication. "Separation of Duties" usually creates a balanced system to maximize to improve efficiency and protect privacy.

3.2 Theoretical basis Occam's Razor Each blockchain has different uses and applications and should be designed in a targeted manner and optimization. For example, a blockchain dedicated to transaction delivery need not be Turing-complete (Turning-complete) Smart contract; the blockchain running in the trust zone has no too much emphasis on transaction privacy.

3.3 Solution

3.3.1 Artificial Intelligence Empowers Data Security Artificial Intelligence (AI) Essence, producing a new kind of intelligence that can respond in a similar way to human

intelligence. Functional machines, research in this area includes robotics, speech recognition, image recognition, Natural language processing and expert systems. The theory and technology of artificial intelligence are becoming more and more mature. The application field is also expanding, and various products derived from artificial intelligence will be brought together in the future. Human wisdom.

Artificial intelligence can identify the value of data in the Internet through intelligent systems, and then there will be value data is stored in IoT storage devices. The main source of data on the Internet Users of network devices such as servers and Internet terminals, such as large amounts of text data and social data; industrial data mainly comes from machine equipment data, industrial information Information data and industry chain related data. From the type of data collection, not only covering basic data, it will also gradually include semi-structured user behavior data like social relationship data, text or audio user feedback and feedback data, periodic data collected by devices and sensors, Internet numbers acquired by web crawlers Data, and more and more data of potential significance in the future.

3.3.2 Peer-to-Peer Trust Network. Since Satoshi Nakamoto implemented the Bitcoin network, the blockchain has public ledger and peer-to-peer network created a distributed trusted network type. On this basis, various public chains continue to improve the application of peer-to-peer trusted networks. Use range, improve consensus algorithm, improve confirmation efficiency of network consensus protocol,

point-to-point peer-to-peer networks are gradually changing to solve the centralized anxiety problem of centralized networks. Peer-to-peer network can effectively reduce trust in current business processes cost, general business behavior requires participants to ensure the final completion of the transaction through self-discipline. In the event of fraud, the other party involved in the business transaction will suffer heavy losses. In under the characteristics of a centralized network, only a very large centralized system can obtain a more stable trust foundation, while other small and medium entities involved in commercial applications need to bear larger. The cost of trust. The advent of peer-to-peer network technology has changed these situations, making participation in business any subject is equally credible and the cost of trust is low. Through blockchain, smartApplication of peer-to-peer network technologies such as contracts and zero-knowledge proofs in peer-to-peer networks Business operation costs will gradually reduce, promote social optimization of production relations, improve productive forces.

4. Technical framework

4.1 5AI consensus algorithm DPoR (Delegation-Verification Randomness)

The key features and advantages of the consensus algorithm in the 5AI intelligent IoT platform are CoS (Class of Service) allows users to give options for transaction speed and verification commissions. DPoR (Delegated-Proof-of-Stake) algorithm is used in 5AI platform consistency algorithm. DPoR combines two DPoS concepts (Delegated-of-Stof) algorithm and PBFT (actual Byzantine fault tolerance), which are upgraded to

public and private blockchain networks, the CoS (Service Level) algorithm speeds up the settlement process and enables transaction processing is faster. The consensus process is based on the PBFT algorithm and finally verifies the node's Connection uses CoS algorithm to resolve commission rate and verification speed as user options problematic relevance.

The overall consensus process of the 5AI platform is similar to PBFT. As mentioned above, 5AI passes adding DPoS concepts and CoS to PBFT and stake-based voting consistency algorithm for blockchain. 5AI solves double voting through its locking mechanism. Issues in order to freeze and release voting rights in the network during voting. Through this way, 5AI platform takes away bets by capturing intentional harmful behavior on the blockchain. To deal with the current wrong punishment of malicious actors by existing blockchains. PBFT (Actual Byzantine Fault Tolerance)

PBFT is a consensus algorithm, which was developed so that distributed systems can exist When a non-coordinated asynchronous system with no nodes exists, make all participating in the distributed system. The nodes successfully reached an agreement. The existence of a consensus algorithm called "primary" or a special node for "leaders" that sorts the client's request sequence sequence, write the result of the request, and pass it to other nodes. The consensus process is as follows:

- 1) The leader collects and submits customer requests in order and broadcasts them, other sections. Click the execution result;

- 2) The node that has received the Leader message again receives the message from other nodes. Information broadcast to the remaining nodes;
 - 3) All nodes broadcast to other nodes the most messages they receive from other nodes.
- 4) When the processes of (1), (2) and (3) are completed, all nodes have the same number as agreed by a set number $(3f + 1)$. By using two broadcast processes, even malicious or misleading messages are sent to Byzantine Court leader or Byzantine verification node for network outbreak, PBFT allows all nodes in have the same message. CoS (Class of Service) 5AI smart IoT platform applies service levels to verification speed and commissions policies to handle user requests. Platform users can choose the number of validators themselves volume and adjust transaction speed and commission rate accordingly.

4.2 5AI Architecture Overview 5AI will build a peer-to-peer intelligent IoT network to complement peer-to-peer Wait for key links in business on the network to communicate securely. 5AI creates a peer-to-peer network wallet address for each user as a communication. The unique ID of the user in the network. This ID can be used to send messages or to send smart contracts or digital currencies. 5AI runs on peer-to-peer secure communication. High-performance network based on end-to-end secure communication algorithms effect. When two users communicate, the user who initiated the communication generates a connection via 5AIConnection request, the connection request is synchronized to the receiver through the entire consensus network, and the receiver receives. After the request is generated, a response

transaction is generated. Both the connection request and the response request include both parties. Signature to ensure credibility on both sides. Requester starts to create encryption after receiving the response transaction Communication connection, the consensus network creates a key signed by both parties for the connection, the communication connection is encrypted using this key, and the connection is created when both parties are online Build was successful, and communication started successfully. 5 Messages sent by both sides of the AI communication are appropriate Encrypt with session key, confirm four options of message creation based on session creation Save or destroy. 5AI is suitable for communication scenarios in business activities. Company A and Company B can Fully communicate the details of the cooperation agreement in the trusted and secure network Messages are kept secret through IoT devices.

4.3 5AI Smart Contract In addition to sending and receiving messages and digital assets, 5AI can also send and sign Can contract. Every transaction in the business society is actually the performance of a contract Row. 5AI completes the communication economic network through support for smart contract issuance and signing Network building. 5AI two or more parties can be created in a peer-to-peer network and release of smart contracts, smart contracts are only in secure distributed storage before signing In 5AI, participants in smart contracts can communicate and collaborate securely and efficiently in 5AI. Work together to complete the adjustment of the smart contract, and finally pass 5AI to initiate a joint signing Department. After

the smart contract is signed, it will take effect on the asset network of 5AIToken, but the transaction. Key data is not public, only contract participants can view the smart contract agreement Negotiated specific asset data content. 5AI stores smart contracts through asymmetric multi-key encryption. The execution conditions of the contract are displayed and not encrypted. The asset trading department of the smart contract. It is strictly encrypted and only visible to each contract participant. 5AI smart contract signing capabilities, a peer-to-peer security and trusted foundation. To greatly reduce the cost of signing offline contracts in the business community, Networks provide new directions.

4.4 Resistance to quantum attacks.

In the daily life or work of people, in the normal operation and maintenance of the Internet today. It is inseparable from modern public key passwords. Modern public key passwords constitute a network space. An anchor of trust between the chains. It is no exaggeration to say that human society has never been like today as such, entrust such huge assets (physical and virtual) to the modern company key cryptosystem. Algorithms have always been the underlying core of blockchain technology. The potential threat of a quantum computer attack will have a huge impact. Security trust not here.

The efficiency of quantum algorithms will make some encryption algorithms vulnerable. The academia is a spear and a shield that advance each other. There is no absolutely secure password. An absolutely efficient way to crack any password. Use the quantum method to deal with traditional method, which has advantages, but new attacks will always appear, there are quantum attacks, and there will be quantum

defense. 5AI systems will fully recognize quantum cryptography (quantum communication) And the nature of quantum-resistant cryptography, a quantum-resistant computing will be made in the near future signature algorithm, this algorithm will replace the asymmetric calculations currently used by digital currencies method, thereby resisting possible quantum attacks.

5. Commercial map

5.1 IoT Smart Economy

5.1.1 5AI IoT Vision

5AI believes that everyone in the world has the right to create, own, manage and use your 5AI and let 5AI serve you. For this ideal, 5AI designed a blockchain protocol that allows people to have traceable ownership of their 5AI, go centralized management and liquidation rights, and 5AI has continuous artificial intelligence learning capabilities force. Such a 5AI-centric protocol allows everyone's data to be related to themselves 5AI connected to ensure security and uniqueness through the blockchain network, and let people The benefits of contributing data are the foundation of the new digital economy. At this in this economic system, each person's 5AI is a certified 3D artificial intelligence able to be an image, similar to the master, sound similar, and continue to learn and understand the master people, answer questions, are not limited by time and space, and do things on behalf of the owner. Unlike traditional blockchain protocols, the 5AI blockchain protocol has an artificial intelligence learning artificial intelligence network module. Distributed artificial intelligence algorithm intertwined in the blockchain. Architecturally, it is the core module of the 5AI blockchain. Blockchain

makes more people willing to share data and resources that would not have been previously shared, such large-scale data and resources bigger than the internet, so machine learning and artificial intelligence are needed for data analysis and resource call management.

5AI blockchain protocol is custom designed for artificial intelligence, The agency provided a blockchain platform. More data and resources, including computing power, be shared without worrying about privacy, security, and being taken away by competitors. Make applications and records are distributed across large, decentralized computer networks. Artificial intelligence technology to provide users and developers with learning capabilities, users can continue to improve themselves artificial intelligence, developers can use artificial intelligence algorithms and computing power to provide users better service. The participation of everyone makes the artificial intelligence system progress faster and more powerful.

5.1.2 Artificial Intelligence Economic System The combination of our digital assets and intelligent virtual identity technology can create a complete the new digital economy- the economic system of artificial intelligence. On this platform, each the intelligent identity of a person and a TA is a point on the network. The more people move and flow, the higher the contribution to the network, the greater the profit. By putting me Our digital assets are intelligent, giving data a life, making data concrete and alive in the future, a new artificial intelligence economy can be built. We can not only show

Intelligent identities similar to ours can also show a variety of more free, idealized, more fun virtual yourself. As data contributors, when we envision how to use intelligent identity means that when we go to work and do things, we have more imagination and freedom of use. We have the right to decide how to release our personal digital products, how to motivate program developers, and how to charge users of information.

The coming economic system can be people-centered, and values are managed and maintained by people. And used by people.

5.2 IoT instant messaging

5.2.1 Vision of Internet of Things Communication Based on BlockchainBased on the 5AI-IoT global ecosystem layout, users from all over the world can in the ecosystem, tokens are used for gaming, socializing, etc., and ensuring the user information security, privacy and other issues, so a complete ecological closed loop has been established.

5.2.2 Provide secure communication chat function room (basic function)In addition to storing and managing 5AI assets, 5AI is also based on ensuring secure communications. Provide wallet management services for other digital currencies, including sending and receiving digital assets production, digital asset red envelope and other functions. The storage of chat history is no longer silent. Recognize that the information on the chain can also be freely selected or destroyed. 5AI Communication

Economic Network Also open to expand development capabilities and support 5AI Token for 5AI communication Economic networks provide richer application capabilities. 5AI also supports the bounty of other digital currencies to complete the 5AI function enhancement. 5AI It also provides emoji service for 5AI users. Emoticons provide users with a fun Visual communication to interact with their friends and family, with user engagement, the emoji package provides users with efficient and concise expressions. It also increases the fun of communication and solves the coldness of face-to-face communication.

No problem with temperature. 5AI's emoji market gives every participant the opportunity to create build your own emoticon products and transfer value on the 5AI network, because of the resources contributions and copyright disputes will no longer be issues to be resolved.

5.2.3 Communication treasure. In order to facilitate users to check their communication with others, we will develop communications Bao, users can obtain free and paid two different ways according to their own need information. Communication treasure provides users with their own communication information and token consumption for free quantity, etc. You can also pay a certain token after checking the consent of others, check him people-related information. We will set up communication rankings and consumption rankings on the homepage. Correct on the list of users, the official will give a certain token reward.

5.3 IoT Service Ecology

5.3.1 Master Node VPN Service each region or country has basically set up a firewall for its own network security. Can result in normal communication between users in different areas. 5AI will open Specific nodes are used as VPN service channels to establish a private network on the public network. Encrypted communication to solve such cross-region and cross-border communication problems. While the 5AI token will become the payment medium for this service item.

5.3.2 5G Communication Facilities Support Services 5G communication facility support services for IoT built on peer-to-peer networks. An infrastructure support service for communications. Users can use within the 5AI ecosystem. Token payment is used to enjoy the convenience of IoT communication brought by 5G communication. First the indicator is "high speed", 5G can download 8GB HD movies in 6 seconds, and 4G takes 7 minutes. Another typical indicator of 5G is "zero latency". Now in areas such as medical and autonomous driving. 5G technology in autonomous driving operating systems can collect all the data points in real time and send them to the data center and then these. The data will be processed on the server and then sent to the car's computer-Everything should happen in an instant so that neither the machine nor the human would notice the heavy big delay.

5.3.3 Trusted Device Chip Based on Asymmetric Encryption security authentication is a basic function for electronic devices to participate in secure interaction and use.

particular It is in the Internet of Things (IoT) field that security certification is very important: untrusted endpoints may put the entire infrastructure at risk. 5AI developed asymmetric encryption security chip, which relies on two keys: a private key and a public key. Only the certified device knows the private key, and the public key can be disclosed to anyone who wants to authenticate the device securely any party. As with the methods discussed above, the host sends a challenge to the device. Assume the device calculates a digital signature based on the challenge and private key and sends it to the host (see below) Figure). But at this time, the host uses the public key to verify the digital signature.

It is important that word-signed functions have certain mathematical properties. 5AI Trusted Device Chip the functions in the asymmetric method used are RSA and ECDSA.

6. Token economic model

6.1 5AI Token Overview 5AI Token is used to support value transfer and core in the intelligent IoT platform operation of heart function. In addition to sending and receiving messages, 5AI is also 5AIToken money package that can store and control assets. 5AIToken is used to motivate 5AI peer-to-peer construction of peer-to-peer networks to build richer communication applications based on peer-to-peer networks use. By introducing 5AIToken, 5AI peer-to-peer communication economic network can be solved the problem of incentive misplacement in the current centralized network. At the same time, at the governance level, give participants in the network 5AIToken

certain rights and give them a voice opportunities and capabilities to influence the development direction of the future communication economic network.

The core function of 5AI Token is to enable users to enjoy high-quality and secure peer-to-peer communication so that every loop of business applications can be completed in a point-to-point peer-to-peer network interaction. At the same time, 5AIToken also enables core users to choose and make decisions. The development direction of peer-to-peer communication network software. 5AIToken users suggest decision policy, any user can make suggestions, the number of tokens held is the decision. The weight of the vote does not affect the weight. 5AI Token allows users to make key decisions on platform software development, using users can also set up bounty to stimulate the development of certain functions.

5AI Token Fund Bounty is also set up on communication network platforms to reward platform code contributors. Base gold and Token holders work together to influence the development direction of the communication platform. By default, users can send small amounts of message content at 5AI for free. The user's identity is authenticated by the 5AI public key. The user's status is imminent through transaction form communication network propagates storage, including whether it is online. 5AIToken in the asset chain storage, instant messaging network and asset chain are interconnected independently.

6.2 5AI Token Ecology 5AI's official digital asset name is 5AI, which is based on a peer-to-peer network of digital cryptocurrencies. 5AI ecological applications:

1. Provide secure communication chat room
2. Digital Management Platform Based on Intelligent Internet of Things.
3. Ecological application of VPN based on master node
4. Intelligent browser based on 5AI transmission blockchain (Communication treasure)
5. Provide a developer community

6.3 Allocation plan. The total number of 5AI tokens is 10 billion and will never be issued. The initial distribution plan is as follows: 20% strategic cooperation this part of the token is exchanged for tokens for strategic partners. Operation team 10% This part of the token is used to pay the operating and management expenses of the 5AI early team. Ecological construction 40% This part of the token is used to build the early 5AI ecosystem, and encourage all parties in the ecosystem to participate in ecological construction with a positive attitude.

This part of the token is used as the project token held by the foundation to maintain the foundation's integrity recurring expenses, 5AI strategic cooperation investment, maintenance platform and standardized operation of service providers and healthy development. Founding team 10% This part of the token is owned by the founding team and is used for continuous development funding. 5AI uses a halving model every 2 years to issue a total of 10 billion 5AI. User communication all types of assets that

have entered 5AI through the cross-chain system will be automatically converted to daily average prices 5AI market value, 5AI issued based on the total market value of assets held.

7. Team background

Johniest Tomy, co-founder and CEO of 5AI, leading 5AI's strategic planning and the sustainable development of the business ecosystem. Serial entrepreneur, graduated from Columbia, USA University computer major and MBA from Stanford University Degree; previously responsible for business at Google, Microsoft and other leading international Internet technology companies Planning and product incubation, long-term work experience in technology innovation and entrepreneurship, innovation computer vision artificial intelligence company has also been successfully acquired by European giants. In 2014, he began to participate in the underlying technology research and commercial project investment in the blockchain field. And served as an expert consultant to a number of international blockchain organizations.

Dlex Randaim, co-founder and CTO of 5AI, leading 5AI's underlying technology research development, kernel building and continuous development of the technology community. Serial entrepreneur, graduated from Imperial College of Computer Science, Ph.D., long-term employment. In the field of artificial intelligence, he has in-depth research on third-generation neural networks and innovatively improves. The idea of building a smart network based on blockchain technology

has been published, and many research papers have been published internationally. Included by academic organizations. Previously worked as a professional artificial intelligence consultant for Big Blue IBM ask for consulting for large IT companies.

Mister Petrano, 5AI co-founder and COO, leads 5AI's brand strategy and community building, and the maintenance of international image. Serial entrepreneur, once in Europe the digital advertising company of the Valenburg family is responsible for brand planning and has led many the implementation of several successful projects enjoys a high reputation in the industry and has entered the block since 2016In the field of chains, it has provided multiple projects in the top 30 of global digital currencies. Professional brand advice and development guidance.

Brain Makki, co-founder and CFO of 5AI, leading 5AI's economic model optimizationAnd long-term operational management. Serial entrepreneur, graduated from the University of Paris in Business Administration, Deloitte and KPMG, two of the world ' s four largest accounting consulting firms division work, since entering the field of blockchain in 2016, we have deeply cultivated the token model optimization theory. And asset pricing theory, successfully providing professional guidance for multiple hundred-fold coin project.

8. Cooperative institutions and partners

8.1 Partner institutions

Pantera Capital, as the first U.S. Bitcoin investment company, is leadingThe blockchain investment company is also one of the largest institutional owners of cryptocurrencies.Pantera team focuses on investment in blockchain technology, in traditional financial and emergency areasExperience in blockchain technology. Pantera and some of the most promising companies in the spaceThe industry has built strong relationships with other top investors,Portfolios and bring industry-specific value-added resources to their portfolio companiesStrategic investment concept.

Kenetic Capital, whose various limited partnerships are owned by basic investment companiesA very high percentage of ownership is used as converted equity capital. Invested companyWith good management (to create important value together), the invested company has excellenceGross margin and attractive human and economic scalability, and in large marketsOperation.KRYPTONITE1, KR1 is Europe's leading digital asset investment company, supporting early stageDecentralized and open source blockchain projects. KR1 was established in 2016 and is a major projectOf primary investors, these projects will be decentralized to form the emerging Web3 infrastructurePlatforms and protocols provide support.

RedNova, headquartered in Singapore, has a mission to develop rapidlyGuide the project in an environment where the field dynamics change rapidly and the regulatory environment is full of uncertainty to the forefront of innovation. Since 2013, RedNova has built a industry's top resource network. RedNova's team includes venture capital

experts, entrepreneurs, Public relations marketing experts, public policy experts, and technology consultants. Red Nova in new Jiapo, Beijing, Shenzhen have offices, and have company representatives in the United States.

Pillar capital, third in management of investments in global real estate catastrophe risk markets party capital. Pillar Capital was originally developed by Bermuda's original management team in 2008. Established as Juniperus Capital Limited in April. The plan seeks opportunities for insurance related tools. Turing capital, an early fund of decentralized agreements and companies. Turing capital is a community of founders, engineers, and researchers, they bring our funding, expertise and network together to support the world on the most ambitious team.

9. Governance structure

9.1 Foundation establishment

As the most decentralized, safest and largest model POS cross-chain network, 5AI will set up a foundation, the foundation is committed to 5AI Development, construction and promotion, emphasizing transparent management, will promote the security of open source ecological society Development in harmony and harmony. The foundation's first decision-making committee consists of 8 members, of which community volunteers represent 5 people, 3 early cooperation representatives. After the expiration, they are re-elected by community voting. Decide after the term of the policy committee expires, 10 representatives are selected based on votes in the

community. The committee members select 8 core members of the decision-making committee based on the contributions of community members personnel. New members need to be approved by the members of the Strategic Decision Committee past selections. For the use of funds, the foundation will choose an international audit institution for formal Financial audit, which will publish the results regularly, enabling investors, ecological participants and Readers understand the progress of various tasks and the use of funds.

9.2 Committee Functions Executive committee Study and formulate long-term and short-term plans, formulate constitutions and management systems, and formulate projects Planning and strategic direction, assist in expanding media relations, manage daily operations, and be responsible for promotion The Foundation works smoothly and effectively. Operations Management Committee Responsible for the clear positioning of the project and the development strategy according to the foundation's development goals, Grasp user needs, and formulate operating models and directions. Remuneration and personnel committee Draw up and revise salary incentive plans, allocate agency settings and post settings, and conduct Employment of personnel.

Audit and Compliance Committee Responsible for project monitoring and evaluation, including operation audit, financial audit, code review Taking into account the Token application review and other tasks to ensure project compliance and expenditure specifications , Improve the efficiency of fund use.

10.Disclaimer and Risk Warning

5AI tokens do not constitute securities in any jurisdiction. This white paper does not constitute any type of prospectus or offer document does not constitute any jurisdiction

District securities or solicitations for investment securities. This white paper does not constitute or become any relevant Reseller / supplier selling advice or 5AI tokens ("Reseller")Part of any comments made about any offer to buy any 5AI tokens, also should not, in whole or in part, and the facts presented constitute any contract or investment decision based on or dependent on any contract or investment decision.

No one shall enter into any contract or have a contract for the sale and purchase of 5AI tokens. Strong legal commitment and will not accept cryptocurrencies on the basis of this white paper or other payment methods. Any agreement between any distributor and you as a buyer and any agreement regarding the purchase and sale of 5AI tokens (mentioned in this white paper) is only governed by a separate document that sets out the terms and conditions ("Terms and Conditions"). If there is any inconsistency between the terms and conditions and this white paper, the former isquasi. Any information listed in this white paper has not been reviewed or approved by the regulatory body quasi. Under the laws of any jurisdiction, there are no regulatory requirements or rules, or such action will be taken. The publication, distribution or dissemination of this white paper does not imply that and has complied with applicable laws, regulatory requirements or rules.

11.1 Disclaimer to the maximum extent permitted by applicable laws, regulations and rules, 5AI and / or distribution the company does not assume any form of infringement, contract or other indirect, special, incidental, or other losses (including but not limited to loss of revenue or profit, and use or loss of data), from your endorsement or reliance on this white paper or any part thereof Produced or related to the division.

11.2 Risk and uncertainty

5AI potential buyers (as described in this white paper) should carefully consider and evaluate estimated with 5AI, dealers and their respective businesses and operations, 5AI tokens and ICOs all risks and uncertainties related to the issuance, all information before the purchase of 5AI tokens The collections are listed in this white paper and in the terms and conditions. If any such risks and uncertainties develop into actual events, 5AI and / or dealer business, financial status as a result, operating results and prospects may be materially and adversely affected. In this case You may lose all or part of the value of the 5AI token.11.3 Cautionary Statement Regarding Forward-Looking Statements all statements contained in this white paper, in press releases or in any publicly available A statement issued at the place reviewed and 5AI and / or the distributor or their respective responsibilities people, executive teams and employees representing 5AI and / or distributors (as the case may be)The oral statement that can be made is not a statement of historical fact. About 5AI and / or Distributors' financial

situation, business strategy, plans and prospects All statements regarding the future prospects of the industry in which 5AI and / or distributors are located are forward-looking Sex statement. These forward-looking statements include, but are not limited to, 5AI and / or distributors revenue and profitability, prospects, future plans, other expected industry trends, and none of the statements in this white paper regarding 5AI and / or other matters discussed by distributors are historical facts, but just predictions. These forward-looking statements involve known and unknown risks, uncertainties and other causes. May lead to actual expected results, performance or success of 5AI and / or distributors Performance and Expected Results, Expected Performance or Achievements, Performance or These Forward Looking Statements Are DarkShow. These factors include:

- (1) Changes in political, social, economic, and stock or cryptocurrency market conditions to and the regulatory environment of the countries where 5AI and / or distributors conduct their respective businesses and operations;
- (2) 5AI and / or distributors may not be able to execute their respective business strategies and future plans Planned risks;
- (3) Changes in expected growth strategies and expected internal growth of 5AI and / or distributors long;
- (4) Where relevant to their respective business and operations, to 5AI and / or distribution changes in the feasibility and cost of payment;
- (5) 5AI and / or distributors 'employees' needs for running their respective businesses and operations changes in usability and pay;

- (6) Changes in customer preferences of 5AI and / or distributors;
 - (7) Changes in competition conditions of 5AI and / or dealer operations and 5AI and / or the ability of sellers to compete under such conditions;
 - (8) 5AI and / or changes in future funding needs of dealers and meeting these needs financing and availability of funds;
 - (9) acts of war or terrorism; (
 - 10) Disastrous events affecting the business and / or operations of 5AI and / or distributors. Events and natural disasters;
 - (11) 5AI and / or other factors beyond the control of the dealer;
 - (12) with 5AI and / or dealers and their business and operations, 5AI tokens and 5AI
- Any risks and uncertainties related to the token sale. All made by or on behalf of 5AI and / or the dealer All forward-looking statements, whether vested or vested, are expressly limited by such factors. Given that actual expected results, performance or achievements to 5AI and / or distributors are the same as before this white paper
- Risks and uncertainties of materially different expectations expressed or implied in forward-looking statements. You should not rely too much on these statements. These forward-looking statements apply only in their own right. From the date of the paper.
- 5AI, the dealer or any other person does not represent, warrant and /Or promises that 5AI and / or dealers ' actual expected results, performance or achievements will come first Discussed in forward-looking statements.5Actual results, performance or achievements of AI and / or distributors may differ from these forward-looking The expected results in the statements differ greatly.