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# JLY record chain White Paper

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# Chapter I Preface

## 1. JLY record chain

the record chain JLY is developed by the technical team of JLWAK technology company. it is an encrypted digital currency based on blockchain and JLY intelligent contract technology for JLY commercial landing application ecosystem.

JLWAK as a medium, using blockchain technology will improve traceability and transparency in the value chain of commercial landing applications. aggregate big data cloud computing model analysis to provide intelligent record chain mode. sharing global business information solutions. reduce commercial production costs. mutual benefit price and subvert the traditional market model. Collect actual data of business, innovate commercial production technology, optimize commercial production, as well as commercial intellectual property protection and commercial property transaction. Combined with the Internet, Internet of things, to the existing crowd entrepreneurship play a good role in simplifying. Second, all things are used to create a contract mechanism chain.

The house lease business, everyone can release the rental and sale information through the JLY mall APP, only the EB holder has the right to issue the house lease transaction, all the business through the JLY token transaction, each transaction through the JLY token in the JLY mall will enhance the user's JLY credit points.

JLY intelligent lock mining business, the official website directly sold one thing two use, Zhou Chuang intelligent mining lock can be installed each door, biometric technology plus face recognition technology. Korean imported chip, parry alarm prompt. With 4 G data card, big battery, with EB



wallet. Creative contract mining mechanism.

JLY CarLog and vehicle navigation mining business, JLY intelligent contract mining mechanism, open CarLog driving mileage is calculated mining income. With JLY wallet, real-time video, remote 360° monitoring. Electronic dog function, voice broadcast, reverse image function. self-configured 256 G memory card ,1080 P ultra high clear image.JLY cloud, energy saving mining.

JLY mall business, using blockchain technology to develop global shared information mall. All JLY holders can open stores in the mall. buy and sell goods through articles information articles and videos. All transactions are circulated through JLY tokens. JLY credit points will be enhanced by trading JLY tokens in JLY Mall.

JLY block chain online university to achieve one-to-one VR tutorials, screening quality teaching articles and videos. Teaching and learning earn each other JLY, can reward JLY money to publish content.

JLY record chain uses JLY Token to quantify, motivate and circulate values and trust within the ecosystem, thus providing intelligent services for global business transactions.

JLY record chain encapsulates the underlying blockchain technology and provides access to various DAPP. Support cross-chain mapping, while providing intelligent contract setting, intelligent contract trigger, automatic billing, data link, data traceability, one-click Token、 one-click DAPP and other services.

JLY intelligent contract public chain will creatively use the mining method of AI and AR technology and mixed consensus mechanism, and the DAPP, of the first de-intermediation block chain AR advertising will take the lead in breaking the situation that there is no large-scale commercial application in the existing public chain and accelerating the development of block chain 3.0.

## **2.JLY record chain values**

JLY team will always adhere to the initial heart of improving the global intelligent business industry chain digital trading , " open, innovative, integrity, enabling "as the purpose, intelligent business field block chain technology innovation as the starting point, to promote the vigorous development of business pan-trading as a grand wish, to lead the public to share blockchain dividends as their own responsibility. Achievement users, achievement self, achievement times.

## **Characteristics of 3.JLY record chain**

JLY record chain first from the business media sector involved in large-



scale commercial applications, vehicle navigation and CarLog mining  
(Jlwak Mining: JKY) Rapid access to large numbers of users and  
businesses, accumulation of business data, and adoption of

DAPP - Business Points Trading System (JLWak integration trading system : JLY) and DAPP - Data Asset Trading System (Data assets trading systems : JLY) will continuously increase the number of users and business enterprises, increase the data dimension, enhance the data value, improve the ecosystem, and form the ecosystem bootstrap ability. Finally, it will gradually cover the whole field of intelligent business pan-trade and build a world-class decentralized, self-disciplined and transparent business ecological community.

JLY record chain, aiming at the weaknesses of the existing transaction contracts, such as the difficulty of development, the unstructured coding adjustment, and the insecure review mechanism, designs a new generation of AI security intelligence contracts with high binding and flexibility by introducing artificial intelligence and secure trusted execution mechanism and based on bionic intelligent virtual machine.

JLY record chain uses POW+DPOS mixed consensus mechanism, and uses the unique AI reconstruction technology, and uses the GAN algorithm system to optimize, repair and upgrade the consensus mechanism continuously, thus greatly reduces

POW the high cost of communication and transaction in the process of consensus formation, the current situation POW consensus mechanism is becoming more and more central, so that a large number of people holding mobile terminal more convenient and lower cost to participate. JLY record chain is based on blockchain technology +IoT Internet of things & intelligent technology IoE the interconnection of all things

Fusion, through the global block node to create a large number of digital asset-based trading models and business processes, and form a variety of standardized security intelligent contracts. When the user creates his own digital asset system, he only needs to call the corresponding JLY record chain built-in asset contract interface, and the corresponding transaction



logic can directly inherit the model already defined in the JLY record chain, and can also be generated by various bionic intelligent models JLY the record chain.

JLY record chain will also develop a one-click DAPP generation service to provide enterprises and individuals with the safest and most convenient "self-finance "," self-media" digital asset value experience.

JLY record chain will lead to the third stage of block chain landing entity field -- domain-like generic transactions

## Chapter II JLY Project background

### History of 1. Block Chain Development

For the past 2017, the global economy has focused on an industry —— blockchain.

In the beginning of 2018, the popularity of the blockchain industry is still unabated, but there are few successful blockchain applications at present, which can almost judge that the blockchain industry is still in its early stage and still needs to be continuously developed. The current development of blockchain is divided into three stages:

#### 1.1 Block chain 1.0 era

At the end of 2008, Nakamoto published a paper called Bitcoin: A Point-to-Point E-cash System, in which the concept of blockchain" was first mentioned. Simply put, the block-like data is hash encrypted and timestamped, and then the hash is broadcast to make it transparent and non-tampering, which solves the security problem of electronic cash. As Nakamoto's first bitcoins were dug out, the blockchain The 1.0 era also started, and the 1.0 era didn't do much, but brought the blockchain into real society. In the 1.0 era, people paid too much attention to those virtual currencies based on blockchain technology, focusing on how much they were worth, how to dig, how to buy, how to sell. But over time, there will naturally be more attention to technology itself, followed by a new revolution —— the blockchain 2.0 era.

#### 1.2 Blockchain 2.0 era

The blockchain 2.0 era is a smart contract represented by Ethernet Square and Ribo coins or is understood as "programmable gold Melt ", is to the financial domain uses the scene and the flow to carry on the comb, the optimization application. Block chain 2.0 era is intelligent contract development and application. Smart contracts are simple

transactions that can be executed automatically.

The best known of the blockchain 2.0 era is the common blockchain platform  
Ethereum with smart contract functionality

Square, can also be said to be the etheric workshop set off a wave of blockchain 2.0  
revolution. To solve the problem of Bitcoin

The problem of poor scalability has proven to be the same, and a large number of Token based on ethernet have successfully pushed ETH to second place in the global cryptocurrency market cap. But the 2.0 technology of block chain can only reach 70 to 80 transactions per second, which is a constraint to its rapid development. So, this needs to be eyes to the future 3.0 era.

### **1.3 Block chain 3.0 era**

blockchain 3.0 era is the application scenario implementation of blockchain technology in the social field. it extends blockchain technology beyond the financial field to provide a "programmable society" of decentralized solutions for various industries. In the age of blockchain 1.0 and blockchain 2.0, blockchain only affected a small number of people in a small range, confined to money, gold in the melt industry. And blockchain 3.0 will give us a bigger and wider world. The future blockchain 3.0 may be more than one chain and one coin, an ecological, multi-chain network, similar to a huge operating system made up of global terminal sharing.

In the 3.0 era of blockchain, the value of blockchain will go far beyond the economic fields of money, payment and finance, which will reshape all aspects of human society. A revolution without gunsmoke, what EB team has to do is meet it, embrace it, accelerate it and finally change the world.

### **Current status of 2. public chain**

Since bitcoin code was opened in 2009, there have been many tokens and blockchain concept projects in the community. More prominent are the etheric workshop projects and many similar public-chain projects dedicated to becoming general-purpose smart contract platforms and decentralized application platforms. But these public chains still face great challenges from the technical point of view, especially in the field of industry application. The main issues are as follows:

A the lack of new domain-like intelligent contract platform, too general intelligent contract leads to block chain technology can not be combined with the actual scene landing. Because of the lack of connection with the real society, the wide application of bitcoin ecology and etheric workshop ecology is restricted.

B compatibility between different blockchain platforms. For example, Bitcoin ecology based on UTXO model and based on Account model's ethernet ecology is not compatible.

C consensus mechanisms themselves lack flexibility. Because of the different identity and behavior of the participants, the need for consensus mechanism is different in the public chain and the alliance chain.

D the existing blockchain system has a large closure. At present, most intelligent contracts only accept the data on the chain as the trigger condition, and lack effective interaction with the real offline world.

E traditional POW consensus mechanism is a crude and inefficient exhaustive mechanism, huge amounts of energy consumption and machine computing power hijacking to block a large number of ordinary users outside the door, resulting in the ecosystem does not have enough ecological flow.

For one or more of the above reasons, F basically all public chains lack large-scale commercial landing applications that meet the following requirements as a strong support --- (1) sea population (2) high frequency (3) offline rigid demand.

And we want to build a whole new domain-like public chain ——EB human chain. business activity is the most basic activity for human social organizations (individuals) to interact to obtain living conditions. therefore EB regard the business domain public chain as the optional blockchain value and trust transmission ecological platform in the future mixed real world. EB renren chain is committed to greatly promote the ease of use of the whole blockchain industry, and promote the rapid iterative upgrading of blockchain technology through the technical requirements generated by a large number of landing applications.

JLY record chain is based on the UTXO AI security intelligent contract model, facing the public chain flexible hybrid consensus mechanism to achieve the compatibility of bitcoin and ethernet. Through the design and

implementation of Oracle and data feed (Data Feeds), the JLY record chain becomes a convenient bridge between the blockchain world and the real business world.

### **3. JLY design principles**

Aiming at the limitations of public chain technology and industry application, JLY proposed the following improvement schemes:

A the introduction of the new design of the main control contract, through the chain data and the chain data input as a trigger condition to complete the contract execution.

B achieve compatibility between blockchain technologies and solve cross-chain mapping.

C hybrid consensus mechanism (POW+DPOS) POW+DPOSAI algorithm.

D user data is effectively isolated, the call of user behavior data is decided by the user himself.

E increase consideration of industry compliance by providing optional identification modules;

F use AI technology to change the traditional mining methods, so that mining and a large number of commercial car manufacturers to do effective bonding.

G build the traditional commercial security intelligent contract classification model, and finally achieve one-click generation

DAPP.JLY record chain also includes modular design and usability considerations in the development process. For the sake of

to facilitate development and maintenance, the JLY is divided into three modules: JLY technology module, JLY user interaction module and JLY sharing mining module.

#### **4.JLY vision**

JLY record chain is dedicated to creating an open source community ecology that is the most influential in the world through community, third-party developers and technological innovation, with the ultimate goal of integrating the block chain into different industries throughout the automotive mining ecology.JLY record chain is compatible with the ecological society and incorporates the logic of regulation through

Oracle and Data Feed bridge the block chain with the real business society, JLY the ecological construction and technology development of the record chain will follow "customer easy to use, system security, closed-loop integrity, application high viscosity, accurate demand

"Five principles.



## Chapter III JLY technology system

### 1. overview

JLY record chain is committed to building a brand new pan-trading ecosystem in the business field, and is guided by the application of various major industries in the automotive field. through the mobile end DAPP development strategy, the technical advantages of the block chain are brought to the users and ordinary users of different industries.

JLY focus on the automotive application of smart contracts, through the design of perfect Oracle and Identity modules, and the data feed (DataFeeds) mechanism is added to make traditional internet enterprises (finance, internet of things, etc.) meet the requirements of relevant compliance when applying blockchain technology.

JLY pay attention to the application of artificial intelligence AI and AR in block chain, use AR to improve user viscosity, capture user behavior, and transfer value and trust quickly, accurately and safely through continuous deep learning in AI, refactoring and upgrading and optimizing the mixed consensus mechanism.

### 2. technology architecture

EB human chain technology architecture from the bottom up for the network layer-basic layer-core layer-application layer. Figure:

## **2.1 Distributed Structure**

According to the open source and decentralized protocol, the block chain of the JLY record chain constructs a distributed structure system, which allows the value exchange information to be sent to the whole network through distributed dissemination, determines the information data content through distributed accounting, generates block data after stamping, and then sends it to each node through distributed dissemination to realize distributed storage.

The distributed structure is embodied in the following three aspects:

### **2.1.1 Distributed Accounting**

JLY record chain establishes a distributed accounting system in which everyone can participate in recording information through the principle of voluntariness, thus decentralizing accounting responsibilities and recording them jointly by all participants in the whole network.

### **2.1.2 Distributed communication**

Each new transaction in the block chain is propagated in a distributed structure. According to the P2P network layer protocol, the message is sent directly by a single node to all other nodes in the whole network.

### **2.1.3 Distributed storage**

Let all data in the database be stored in all computer nodes of the system and updated in real time. The completely decentralized structure enables the data to be recorded in real time and updated in every network node involved in data storage, which greatly improves the security of the database.

Through distributed accounting, distributed communication and distributed storage, all the data storage, transaction verification and information transmission processes in the system are decentralized. In the absence of a center, large-scale participants will reach a consensus and jointly build a blockchain database.

## **2.2 Consensus mechanisms**

JLY record chain adopts the POW+DPOS hybrid consensus mechanism + artificial intelligence GAN algorithm system, which will constrain, reconstruct and upgrade the consensus based on massive users and extensive application depth learning.

### 2.2.1 POW : workload certification mechanism

#### **A rationale:**

the first generation consensus mechanism, the basis of bitcoin. Understandably, it's simply "pay for what you do," and you get what you do (cryptocurrencies like bitcoin). Here, in the online world, the job is to provide computing services for the network (computing power x time), the process of providing such services is "mining." If it is a real mine, it is obvious that under the premise of uniform distribution, the proportion of people's "mining" is directly proportional to the calculation force provided by each other.

#### **Advantages of B POW mechanisms:**

The mechanism itself is, of course, complex, with many details, such as automatic adjustment of mining difficulty and gradual halving of block rewards, all based on economic principles that attract and encourage more people to participate. Ideally, the POW mechanism can attract a lot of users to participate in it, especially the more the first participation is obtained, which will promote the rapid development of the initial stage of encrypted currency and the rapid expansion of the node network. Bitcoin did attract a lot of people to "dig" in the era of CPU mining, which is good proof. By "mining" the way to issue new coins, the distribution of bitcoin to individuals, achieve a relatively fair. POW mechanism is also the safest consensus mechanism in the absence of 51 per cent force attack.

#### **Disadvantages of C POW mechanisms:**

Computing power is provided by computer hardware (CPU、 GPU, etc.), to consume electricity, is the direct consumption of energy, contrary to the human pursuit of energy conservation, clean, environmental protection concept. This mechanism develops to today, the provision of computing power is no longer a

simple CPU, but gradually developed to GPU、FPGA, and even ASIC mining machine. Users have also developed from individual mining to large mining pools and mines, and the concentration of computing power is becoming more and more obvious. This is contrary to the direction of de-centralization, which is becoming more and more remote, and the security of the network is gradually threatened. Certified

A Ghash( mine) has been shown to have launched a double-spending attack on gambling sites (in short, twice a sum of money). Hijacking of machine computing power further reduces the security of the POW mechanism and prevents a large number of ordinary users from participating.

Data show that global smartphone holdings will reach 3 billion by 2018, and how to make it easy for massive mobile users to join is the first issue to be considered in JLY record chain.

### **2.2.2 DPOS: voting rights certification mechanism**

#### **A rationale:**

DPOS similar to voting proof, achieving this does not require trusting anyone because everything is hard-coded into the software and has the corresponding voting rights as long as you are the holder of the Token.

#### **Advantages of B DPOS mechanisms:**

The DPOS mechanism is for each holder of the Token to vote on the person representing the entire system's resources, while the 101 delegates who receive the largest number of votes (which can be understood as 101 pools) carry out the transaction package calculation. From a point of view, DPOS is a bit like a parliamentary system, but not a four-year election, but always in the election. Those who hold the ballot can vote to replace the representatives at any time. If their computing power is unstable, their computers are down, or they try to use their power to do evil, they will be kicked out of the system immediately by angry voters, who can be replaced at any time.

DPOS on the premise of ensuring network security, the energy consumption of the whole network is further reduced, the running cost of the

network is the lowest, and it is closer to the concept of decentralization of Nakamoto Cong. Encrypted currency DPOS the mechanism is faster, DPOS blocks can hold more transactions than POW or POS, allowing encrypted digital currencies to trade at a pace close to centralized clearing systems like Visa and Mastercard.

**Disadvantages of C DPOS mechanisms:**

Because of the low level of participation of the holder, voting takes time, energy and skills (which is precisely what most holders lack), which ultimately leads to a low level of motivation, and the vast majority of the holder may never participate in the voting. There are many difficulties in dealing with bad nodes, community election can not prevent the emergence of some damaged nodes in time and effectively, and the network has great security risks.

**2.2.3 JLY Mixed Consensus Mechanism**

JLY record chain considers the advantages and disadvantages of POW mechanism and DPOS mechanism, Choosing POW+DPOS hybrid consensus mechanism, And add artificial intelligence GAN algorithm system to hybrid consensus system, Intelligent constraints on consensus, reconstruction and upgrading. The POW mechanism EB responsible for block mining and packing in the Mixed Consensus on the Renren chain, DPOS mechanism is responsible for trading, community consensus voting on major issues, and through voting rights mechanism to ensure the interests of miners and maintain miners active.

JLY record chain application AI and AR technology combined with commercial vehicle configuration requirements development DAPP AI Mining

(JLY) Ordinary users can easily use mobile terminals to open APP anytime, anywhere using fragmentation time into the POW mechanism mining.

**2.3 AI Security Smart Contract****2.3.1 Status of smart contracts**



The traditional smart-contract deal, which is still in its savage growth phase, is akin to a "jungle adventure ". At present, there are a lot of intelligent contract projects based on Ethereum Square, and Augur 、 Digix 、 are more famous FirstBlood wait. These traditional smart contracts are complex and cumbersome, prone to logical loopholes. If the user

With little experience, such incidents are highly susceptible to occurrence. The essence of this phenomenon lies in the fact that the blockchain is designed as an environment without trust and does not have a central adjudicatory body, so that the mechanism of "ex post representations and arbitration" can not be implemented, which means that as long as the error occurs, it can not be corrected. In addition, money can not be transferred to a specified wallet when a breach exists in the contract, such as when the current transaction is executed but the transaction wallet is not revoked. Therefore, it is necessary to improve the security level of intelligent contract by modifying the existing intelligent contract, and to realize the intelligent analysis and defect prevention of the logical behavior of the contract through some mechanism, and finally to minimize the vulnerability probability.

### 2.3.2 JLY AI security smart contracts

JLY record chain aims at the weaknesses of the existing transaction contract, such as the difficulty of development, the unstructured coding adjustment, and the no security review mechanism, and innovates from the framework of SDAG( super directed acyclic graph), designs the contract account, which has the same function as the normal account: opening, sending, receiving and changing the representative. Contract accounts are code-controlled, each of which is a separate chain from the initial block

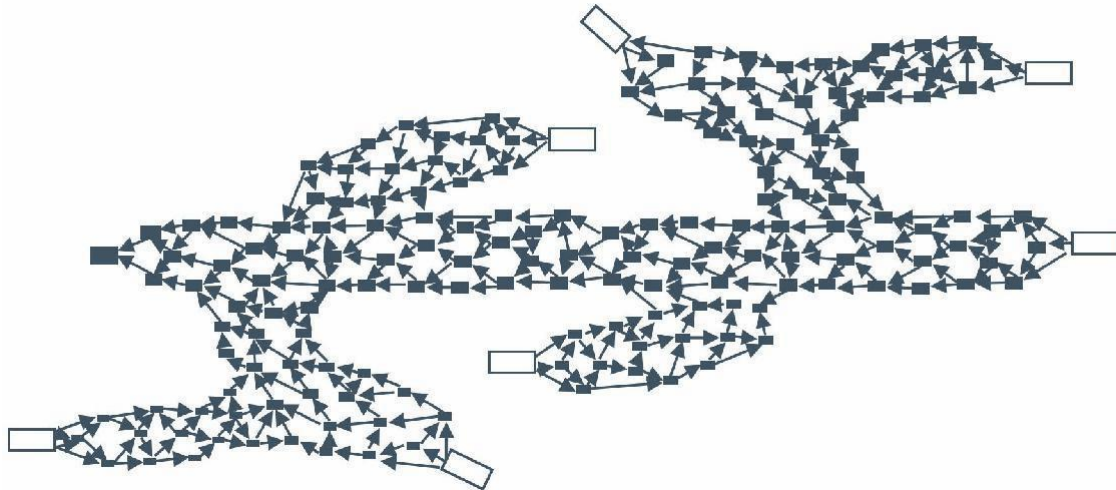
BLOCK sending and receiving transactions constitute block-free blocks.

SDAG- super directed acyclic graph (Super directed acyclic graph) is based on existing

DAG technology, build block chain hierarchical entanglement network, each level of block chain network to store the corresponding data. Similar to the State -> province -> city -> county -> district, each administrative center manages the



data separately, between provinces and provinces, between the state and the state, does not care about each other's data. By separating the block data of the whole network, each block network only cares about the block data that each needs, it can reduce a lot of data redundancy.



### SDAG super directed acyclic graph

JLY record chain through the introduction of artificial intelligence and secure and trusted execution mechanism, and based on bionic intelligent virtual machine, automatically judge the rationality of the trading model, automatically sniff out trading vulnerabilities, forming a new generation of security intelligence contracts. On the basis of supporting the principle of non-discrimination, contract users can choose the bionic intelligent model as the basic guarantee, and automatically reject unreasonable transactions under the permission of users. If users abandon bionic intelligent protection, can also complete the transaction, but the consequences need to be borne by the user. This has led to more secure, more flexible and open contract transactions.

### **2.3.3 AI Security Intelligent Contract Definition**

AI security intelligence contracts are event-driven, capable of supporting bionic intelligent hosting and adjudication through JLY record chain bionic intelligent review, capable of continuing to run on a copied, shared account book (The Replicated, Shared Ledger), and capable of keeping the assets on the account book, enabling access to external data through interfaces and trusted gateways specified by the JLY record chain.

### **2.3.4 Intelligent contract cycle management**

A secure intelligent contract is a chain object that includes code, data storage, and specifying the bionic intelligent reference model and the bionic intelligent decision rule in the JLY record chain system. The contract author can describe the terms of the contract by language, define the bionic intelligent rules of the contract and the bionic intelligent reference model, set the execution conditions, and perform the operation and participate in the interface after the execution condition is reached. After the contract author registers the contract to the JLY record chain, other users will participate in the contract by calling the interface.

### 2.3.5 Security Intelligent Contract Programming

Because the core idea of the security intelligent contract is to complete the contract review and guarantee the contract execution by establishing various bionic intelligent models. Therefore, how to bind these basic bionic intelligent models (glue) to form the most suitable scene models for users in the business field is the focus of JLY recording chain to consider programming language. JLY currently use Lua as the default programming language for security intelligence contracts. Lua is a small and lightweight scripting language that meets the requirements of Turing's completeness, is written in standard C language and is open in source code, and is designed to embed in the application to provide flexible extension and customization capabilities for the application.

### 2.3.6 DAPP generated by one key

the vast majority of blockchain applications revolve around digital assets, and business users or individuals are usually more willing to create their own asset types and use smart contracts to control its issuing and trading logic as long as they think their goodwill is sufficient to support the flow of digital assets. But in traditional blockchain design, each digital asset needs to develop its own set of business processes based on smart contracts, such as the etheric workshop platform, in a way similar to "everyone inventing wheels over and over again ", an implementation process that is extremely wasteful and inefficient and error-prone. At the same time, a large number of small users do not have the economic strength and technical level to carry out this work, which will greatly restrict the speed of blockchain technology landing

Degree. "The household has the card, the card is easy to flash" will be the future commercial domain block chain trend. JLY record chain co-developers community uses bionic intelligence technology to create a large number of digital asset



trading models and business processes suitable for offline business scenarios. Any user in the creation of their own digital assets, just call the corresponding JLY record chain built-in asset contract interface, you can generate a complete digital asset system. Users can develop their own digital asset transaction logic, can also be customized through various bionic intelligent models JLY the record chain, and can directly inherit the digital asset delivery that has been defined in the JLY record chain

Easy logic model.

JLY can allow users to customize digital assets simply and quickly under the premise of ensuring security, which means that JLY business domain chain will lead the block chain into the era of "self-media "&" self-finance ". Under the condition that the bionic intelligence examination is qualified, the user can according to the contract way, according to its own special attribute

TOKEN form of sale, and on the JLY of secure and reliable transactions, and in accordance with the security of smart contracts for various ownership transactions and realization. A large number of entrepreneurship and innovation are likely to receive adequate financial support, while users who buy entrepreneurial ideas can enjoy the corresponding rights. In general, the digital assets created by users are usually only online assets, and can not interact with offline assets and behaviors through traditional smart contracts. And JLY business domain public chain through various extensions, the introduction of bionic intelligent judgment mechanism and trusted gateway equipment, to achieve online and offline connectivity and interaction.

### **3. ecological interface**

To facilitate the docking of enterprise business systems, the JLY record chain system provides an independent API gateway, providing the business functions provided by the Renren chain system in the form of REST API, and enterprise customers can quickly access the Renren chain system and integrate with other systems within the enterprise. Block chain technology for JLY record chain system heart, to achieve an open, mutually trusted point-to-point collaboration model. Existing JLY record chain platform supports intelligent contract technology, which can meet the requirements of multi-party cooperative contract signing



and automatic transaction accounting operation. But the current blockchain network performance can not meet the needs of high concurrency scenarios, we will use the lightning network to move a large number of small payments under the chain processing, both performance and data credibility. As a whole, we divide the JLY record chain into three sides from the technical point of view: user, business server and blockchain network. From the data processing logic of the whole JLY record chain, it is divided into network layer-basic layer-core layer-application layer.

#### **4. data traceability system**

Data traceability system refers to the multi-interaction of big data and cloud platform, relying on the complete data recording chain,

To realize the core functions of unique identification code anti-counterfeiting, copyright flow track tracing, information source track tracing, process management, traceability authentic verification mall and so on. Data tracing technology gives every data a unique encryption and anti-replication source code, and realizes the information chain by collecting and recording every link information of ownership registration, transaction and circulation.

"Sources can be found, whereabouts can be traced, responsibility can be investigated. Because the technology of block chain can not be tampered with and stored permanently, the characteristics of distributed storage can provide technical guarantee for verification. All parties in the application of data assets only need to know the initial source of data, circulation and other related links through the platform, so as to realize fair and just visual circulation and consumption.

## **5. secure encryption algorithm**

JLY record chain uses cryptography to resolve consensus mechanisms. The operating principle of this consensus mechanism is "asymmetric encryption mathematics ". Simply put, it allows us to use two passwords in the process of "encryption" and "decryption ", two passwords with asymmetric characteristics: one is that the password when encryption (known as" public key "in the block chain) is visible to the whole network, and everyone can encrypt a piece of information with their own public key

(The authenticity of the information); Second, the decryption of the password (in the block chain known as the "private key ") is only the information owner know, encrypted information only has the corresponding private key can be decrypted.

## 5.1 Symmetrical encryption

Symmetrical encryption is the fastest and simplest way of encryption, encryption (e n c r y p t i o n) and decryption (d e c r y p t i o n)

Using the same key (s e c r e t k e y). Symmetric encryption typically uses relatively small keys, typically less than 256 bit.. A key size is a trade-off. that takes into account both security and efficiency

## 5.2 Asymmetric encryption

The asymmetric encryption provides a very secure method for data encryption and decryption, which uses a pair of keys, public key (p u b l i c k e y) and private key (p r i v a t e k e y). The private key can only be safely held by one party and can not be leaked, while the public key can be sent to anyone requesting it. Asymmetric encryption uses one of these keys to encrypt, while decryption requires another.

### **5.3 Private key (private key)**

Closed, is a 256-bit random number, kept by the user and not open to the public. The private key is usually generated randomly by the system, which is the only proof of the user's right to use the account and the ownership of the assets in the account.

### **5.4 Public key (public key)**

Open, each private key has a public key that matches it. ECC public key can be generated by the private key through a one-way, deterministic algorithm. currently commonly used schemes include: secp256r1( international universal standard), secp256k1( bitcoin standard) and SM2( chinese national standard). bionic chain control chain with initial data chain selection secp256r1 as the key scheme.

## Chapter IV Commercial applications in public chains

### **Current status of commercial application of 1. public chain:**

At present, there is no large-scale real business application of the public chain, that is, usually said that can not land, as follows:

A basic public chain performance bottleneck shackled everyone's business creativity. At present, the most mature blockchain network is Ethernet Square, which has higher performance than Bitcoin, but the TPS is still low, the transaction delay is longer, and the transaction fee is still high. For most business scenarios, operating data can only be read and used in traditional data warehouses.

B all basic public chains want to be operating systems suitable for universal applications to obtain a huge increase in valuation, they do not realize that the soul of the block chain is not just technology, but a major reconfiguration and transformation of commercial social relations. The development of the Internet to the present centralization has seriously restricted the whole social innovation power, blockchain is precisely through the code trust to break this deadlock, challenge and change the brand trust that can not be completely transparent.

C ordinary blockchain projects because of the lack of public chain R & D capabilities, although also involving a lot of subdivision industries and specialties, but limited by the expansion of the basic chain, compatibility and security, will form a large number of blockchain projects isolated islands, can not significantly promote the rapid development of blockchain 3.0.



D the existing token economy is still only in the exchange, offline business scenarios are rarely used, through a large number of people and a large number of applications to generate demand for technology, promote technology iterative upgrading.

we clearly realize that the development of blockchain technology is currently in a very early state. the so-called blockchain technology does not refer to any new technology, such as hash algorithm, DAG, AI, spv verification and so on, which are already existing single technology. As a whole, blockchain technology should refer to the technology group that reconstitute and skillfully lap all kinds of existing technologies to satisfy the practical application. So it's a big deal



The domain-like public chain is the only way to block chain 3.0.

JLY record chain selects the business domain development domain class public chain is to solve the above problem. The commercial application of JLY record chain starts from DAPP JLY and DAPP BITs, and forms the DAPP group ecological infrastructure with bootstrap ability, and finally expands to the business domain pan-transaction gradually.

## **2.JLWAK MiningDAPP (JLY)**

### 2.1.1 Data Island Problem

The best way to put in ads is to put in and get a portrait of the user, but it's not perfect at the current stage, and we've heard too much about the so-called "precision delivery" approach. For example, after a user has just bought something on a platform, the advertising system of the platform will continue to recommend similar products that have been purchased before, based on what the user has purchased before. Therefore, for users, platforms, advertisers, they need a new system that can recommend to users at any time that they want to buy products. The main reason for the "inaccuracy" of advertising is that the data are collected independently and scattered,



## **2.3 Car Navigation and CarLog Mining Scale**

### **2.3.1 Global vehicle built-in vehicle navigation and CarLog scale**

According to global data, the global vehicle navigation and CarLog market in 2015 was \$50 billion,

With \$63 billion in 2016 and \$80 billion in 2017, it will reach more than \$200 billion by 2020. and this will bring JLY a stable basis for commercial applications.

### 2.3.2 Vehicle Navigation and CarLog

If we analyze the subdivision of the whole automobile market in more detail, we can distinguish two key competitive segments: vehicle navigation and CarLog segmentation. As part of the overall trend in the car market, car lines also assemble \$20 billion a year in vehicle navigation and CarLog. JLY the mobile side of the record chain combined with block chain mining, digital vehicle navigation and CarLog mining will bring a more novel and more interesting era of comprehensive experience, will promote digital new technology mining in the subdivision of the top.

In some countries, car-mounted navigation has gained more than 5% of the market. Over the past five years, the market for new vehicle navigation and recorder has contributed mainly to the development of South Korea, the United States, Japan, Eastern Europe, the Middle East and South America.

The global market share of each segment is updated as shown below:

## 2.4 AI、AR+ block

Over the next 10 years, We're going to go into a VR/AR/MR - based computing platform, AI+ voice/ gesture/ somatosensory/emotional/action, and super internet age based on blockchain technology (or similar technology). The hybrid reality hardware (VR/AR/MR) will replace mobile phones and PC, become a new generation computing platform; AI + voice / gesture / emotion, etc. Will replace keyboards and softkeys in most scenarios, become the main way we communicate with computers and other users. The AR technology is best suited to the needs of large-scale commercial landing applications in the current JLY record chain.

## 2.5 JLY DAPP

JLY new smart contract mining as a large-scale commercial application, the specific characteristics are as follows: low threshold for A miners: as long as the car built-in vehicle navigation installation JLYDAPP start the vehicle driving mining. The number of B users is huge: new technology, new kinetic energy, new energy vehicles are sold trillions a year around the world, so JLYDAPP vehicle navigation and car recorder mining can account for a large number of markets.

Solid business foundation in C :\$60 billion in vehicle navigation and recorder + worldwide per year

Decentralization of D mining: because of the average

computational power, mining is no longer hijacked by machine computing power, more in line with the idea of decentralization, but also make the system more secure.

The E effect is outstanding: vehicle navigation and CarLog mining contains a new concept of exploration, mining process has a super energy saving, mining does not consume electricity, as long as the user car is equipped with JLYDAPP start-up vehicles to dig TOKEN more impressive, mining conversion rate will be greatly increased.

F green economy environmental protection: by releasing a large number of mobile terminals idle mobile terminal computing power, abandon mining machine mining malpractice, save a lot of energy.

G business closed loop integrity: based on the behavior of a large number of JLY miners involved, vehicle navigation and CarLog are sold to global carmakers. A large number of automobile agents in the future promote users to participate in JLY mining, forming a profit-making JLY business closed loop.

H data contract rich: JLY mining in the global vehicle built-in vehicle navigation or CarLog and terminal operation data, forming user data assets, data assets can be traded and circulated in the data asset trading system (Data assets trading systems).

### **3. Business Points Trading DAPP (BITs)**

JLY integral trading system (JLWAK integration trading system) DAPP abbreviation BITs, is the next application scene based on JLY massive user, merchant and existing merchant integral market of the record chain.

### **3.1 Market Status of Commercial Points**

In today's consumer market fierce competition, how to cultivate high-quality loyal customers become the theme of business thinking, integral marketing as a means to maintain customer loyalty is common. Business customer relationship management, whether large or small enterprises for customer management and customer retention, basically will give you points, such as supermarkets, department stores, hotels, catering, banking, aviation and other enterprises, issued a variety of points such as credit card accumulation

Points, airline points, e-commerce shopping points, supermarket shopping points, beauty salon points, star hotel points, etc., points marketing behavior everywhere. People hand a variety of points more and more, a variety of large volume, is the current situation of the domestic integration industry. But when the user really uses the integral, discovers the integral can exchange the service or the commodity is single, has the satisfactory service or the commodity but discovers the integral insufficiency. According to statistics, domestic financial, telecommunications, travel, e-commerce, department stores and other industries, the circulation of points worth tens of billions of yuan, but the actual consumption rate of points is only 20%, a large number of points by the user precipitation is not used, points for most users are only chicken ribs.

### **3.2 Pain Point in the Business Points Market**

The traditional integral model has the following pain points:

A points exchange restrictions, the exchange process cumbersome

B users get too many kinds of points and scattered, can not be collected after the effective centralized use



- C the points of different merchants can not be exchanged, the direct establishment of points between merchants and merchants involves the loss of customer data
- D points have no room for appreciation or even zero

E a single enterprise can not provide points to exchange goods or services to cover user needs, the old customer loyalty once again has encountered a bottleneck

### 3.3 The Role of Integral Marketing to Enterprises

For enterprises:

A the marketing cost of keeping an old customer is only 20% of the marketing cost of attracting a new customer. B success probability of selling to old customers is 50%, and the success probability of selling to new customers is not more than 5%. C customer loyalty falls by 5%, profits will fall by 20%.

D if the annual customer loyalty retention rate is increased by 5%, the profit will increase by 85%.

Research data show that more new customers come from the recommendation of old customers. How to make precipitation points flow up, further improve the existing customer loyalty, easy access to new customers become the next important breakthrough in enterprise integral marketing.

### 3.4 JLY DAPP

JLY DAPP is the business integral trading circulation platform set up for enterprises and consumers according to the pain point of the existing integral market in the JLY record chain, which further enriches the business basic data of the pan-trading ecosystem in the field of digital commerce. JLY will use the AI security intelligent contract of the JLY public chain to assist the enterprises with the existing points system to transform the old points into the tradable and negotiable enterprise exclusive digital assets based on the JLY record public chain,





to assist the enterprises interested in building the points system to build the enterprise exclusive digital assets system, and to use the JLY Token as the trading medium for the enterprise exclusive digital assets. Users can trade in the JLY ecological application and exchange the enterprise consumption points.

Do not obtain enterprise customer data, all points trading exchange through the digital wallet completed.

## **4. Data Asset Trading DAPP (JLY)**

### **4.1 Data asset trading system JLY**

The data asset trading system (Data assets trading systems) DTSS, is an indispensable and important application that runs through the whole ecosystem in the JLY record public chain, and is an important basis and means for the iterative upgrading of the "digital intelligent business field pan-transaction system" in the record chain. JLY based on massive data and AI technology, users can be accurately portrait, to meet the needs of enterprise grading sales and expansion of sales, user data asset realization and appropriate marketing will greatly improve the viscosity and reputation of users, so that the whole JLY record chain DAPP ecological closed loop will form a strong positive bootstrap ability.

### **4.2 Status of data assets**

Data assets are not new concepts, in the Internet centralized ecological platform such as Ali, Amazon, Ctrip and so on, each user in the long-term use of their own data assets, only in these centralized platforms, for the use of these data assets, the output does not have the right to control and know. And it is these massive data assets that have created the ultra-high market value of these Internet-centric platform enterprises that data producers have not shared any dividends. Block chain 3.0 era, can let the user's data assets in circulation and realization, to achieve "my data I decide".

### **4.3 JLY application notes**

Authorized by the user to package their own records in the JLY record



chain ecology, and asymmetric encryption, the secret key by the user's own control, according to their own will to decide whether to use the data consumer.

With regard to the actual scenario application process of the JLY, we can roughly express it in the following literal form: the data consumer A issue the instruction to purchase user dimension data, and the JLY issues the authorization query instruction to the corresponding user. After the user agrees, the intelligent contract is broadcast to all data consumer nodes that have such data sources. Each node searches according to the condition of the intelligent contract to query whether other data consumers have corresponding data. where there is, transmitted by other data consumers through point-to-point asymmetric encryption to A, A by paying two fees as agreed in the smart contract, one B to other data parties and one C to the data source (user). If some data is not available at all data consumption nodes, it is transmitted directly to the A, by the user through point-to-point asymmetric encryption

A pay the query fee D to the user, here to pay attention to the query fee  $D=B+C$ , that is, no matter where the data consumer gets the data from, the data source (user) will continue to get revenue.

#### 4.4 JLY characteristics

If there is no block chain, our credit to the platform, the credit between people, the credit between the platform and the platform can not be built, and the transaction of data assets can only be a slogan. Depending on the data asset transaction, you can bring us a completely different transaction experience in the data asset field. In the future, everyone will have a data contract. You can sign an automated contract with other people or organizations or institutions through the mobile phone APP. It can guarantee that after others use your data, you can have a certain profit, and when you do not have authorization, others can not obtain your data. China's law on digital privacy security is changing, and



many centralised platforms will be restricted from accessing and abusing the data, which are managed and processed by data producers themselves.

The JLY, relying on the common chain of JLY records, will attract more applications to JLY ecosystem, which will enrich the JLY data and data dimension. JLY will become one of the most important applications of the common chain

## Chapter V Development planning

At the core of this project is the application +AI blockchain public chain technology and vehicle navigation and CarLog, so the early work of the technical team is focused on community wallet development, basic public chain development and vehicle navigation and CarLog mining

DAPP development throughout the process. The operations team is responsible for foundation building, multilingual website building, publishing white papers, launching early investment, candy community building, business alliance, promotional roadshow, online exchange, etc.

**The main technology development is expected to be completed by the end of December 2020, as follows :1.0 wallet (transfer and cash function),2.0 wallet (community interaction function), millisecond node, consensus open, dedicated block, block generation and development, vehicle navigation and CarLog mining, block reorganization break, miner voting function, block testing, node testing,**

**Special means such as ddos attack penetration test, compression time system, landing public chain DAPP application (JLY)**

**M I N I N G), mapping JLY, global synchronization.**

## Chapter VIJLY Token

JLY Token (hereinafter referred to as JLY) is issued by the JLY foundation with a total of 38 million. JLY the JLY generated before the main online line is based on the ethernet ERC-20 standard, the JLY generated after the main online line is based on the standard will be mapped to the main network assets.

Project abbreviation:

JLY record chain

token abbreviation:

JLY:

Total :38 million

Currency of receipt: USDT /ETH

Price :1 USDT=4.7 JLY 《 Phase I 4 million)

Price :1 USDT=2.8 JLY 《 Phase I 5 million)

Price :1 USDT=1.6 JLY 《 Phase I 6 million)

JLY distribution is as follows:

Mining	≈52.63 per cent (20 million)
Keystone investment	≈39.47 per cent (unlocked)(15 million)
Community outreach	≈2.63 per cent (unlocked)(1 million)
Founding team	≈5.27%(5 years)(2 million) Release of 20 per cent per year

## Chapter VII Core team

### CEO



**Andy**

**JLY of Famous Angel Investors**

**Record chain founder**

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**CTO**

**Crimson**

Full stack engineer, more than 10 years development experience, cryptography expert, EB wallet developer. C /C++、 proficiency java、 Android、 iOS、 LinuxPERL、 PHP、 JavaScript、 SQL wait.

## Communication Technology



**Peggy**

Graduated from Zhejiang University in 2012 with more than 5 years research and development experience in computer application system technology, R & D At least 4 years experience in management, software design and system architecture. Specializing in fine-tuning of large-scale Internet system architecture and large-scale data system architecture design, has rich experience in website architecture, has participated in the development of java 、 php and go projects.

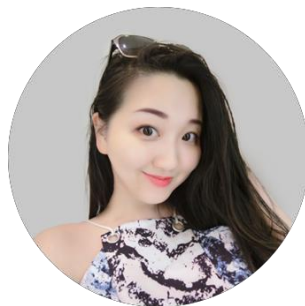
## Block Engineer



**Aleksandar**

familiar with the common consensus mechanism of block chain, such as POW 、 POS 、 DPOS, research and deep understanding of bitcoin source code, master the common technology around block chain: such as elliptical algorithm, asymmetric encryption, lightning network, ethernet chip technology, hyperledger fabric project. Knowledge of C languages, SQL 、 java 、 Scala, shell wait.

## CMO



**Xiao Yuting**

Senior media person, major in the United States, English and Korean language host, Korean University Master's degree, after the United States Caltech University. 15 years of TV media hosting experience, hosted a variety of large parties, press conferences, charity gala, Hong Kong, Taiwan and mainland star concert, in the United States, Australia, New Zealand, Canada, Dubai, Singapore and other countries hosted a number of public company press conferences thousands of times, won the highest honor of many countries



"Golden microphone" host title, block chain industry senior media

Body person, won the block chain chief anchorwoman title.

## **Overseas Technical**



**Adviser**

**Ralf Geiser**

Expert on Cornerstone OnDemand  
Technology of American Listed Companies  
AI Intelligent Robot Technology  
Specialist

## **Overseas Operations Officer**



**Mike Craig**

Early digital money  
investor, chairman of the  
American Airlines Small  
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**Development Adviser**



Founding Partner, Xiongan Group

**Li Shuang**  
**Principal Financial Adviser**



Licensor of the Hong Kong  
Securities Regulatory Commission  
China Quantification Trading Fund (QTF),  
President of China, Pan-Hai International  
Securities (formerly Hong Kong Hua Fu Jialuo  
Securities)

**Xu Gang**  
**Principal Ecological**



**Adviser**

Chairman, Yunqi Holdings  
Sponsors of the International Community Block Chain Alliance

**Gemstone  
Principal Public**



**Relations Adviser**

Founder, Shenzhen Institute

**Hoose  
Keystone  
e  
investors**



Founder, NutsCapital Fund

## Chapter IX Council

### 1. governing bodies

As the main body of block chain governance of this project, set up a JLY record chain investor community conference, dedicated to the development of the platform and governance transparency, promote the safe and harmonious development of the public chain platform, and help manage the general and privileged matters of the platform. JLY record chain investors community conference will consider the sustainability of the public chain platform project, management effectiveness and the security of raising funds, and then promote the efficient and healthy development of the project.

Meanwhile, in order to ensure the openness and transparency of the JLY record chain project, the JLY record chain is managed through the establishment — the Governing Council of the highest decision-making body. The governing board consists of an operational committee, a technical committee and a community development committee. The governing body will consist of developers and functional committees. Each term of office of the members of the Governing Council is two years, and the first members of the Governing Council are composed of members of the core team of the JLY record chain, eminent persons in the blockchain industry, legal experts and early investors, and some members of the subsequent decision-making committee are elected by the community.

### 2. directorate

In order to ensure the efficient, transparent and healthy operation of the





platform, it is necessary to supervise the activities of the whole platform.

Because of the application of blockchain technology, all kinds of data generated by the platform can be recorded and can not be tampered with, so on the one hand, the platform can self-internal supervision and self-trust; on the other hand, the platform sets up autonomous committees and governing supervision committees, which are responsible for the investor community assembly, and are responsible for the functions of managing and supervising them, and the dual supervision guarantees the platform and the interests of the platform stakeholders. The self-government committee changes annually according to the number of tokens held and the age of the currency.

Governing supervision of JLY record chain project is mainly "controlling risk, process specification, openness and transparency"



Principles. In the preservation and sale of digital assets raised in the market, multi-signature system and voting weight system are adopted to guarantee the democracy of decision-making committee in decision-making process and decision-making result. USDT/ETH, from the sale of digital capital can only be raised to the corresponding account.

In addition, the Council establishes consultants for audit, legal, financial and other matters to provide periodic and irregular information disclosure in the form of reports and public information. The contact information of the principal head of the Council is open and subject to contact and supervision by all parties. Furthermore, through the two-way channel of supervision and reporting, the Council welcomes the JLY record chain platform user investors to participate in the management, supervision and operation of the platform to report problems, major crises, fraud, fraud and other issues during the operation of the platform, and must ensure the information protection of whistleblowers.

### **3. Council Team**

Board of Directors: after the expiration of the term of the Board, all members of the Community holding the currency vote on the basis of the number of JLY record chains held and the weight of the currency age calculation. The core members of the Board, who are not more than seven, will be elected to make important and urgent decisions on behalf of the JLY record chain community and will need to receive credit surveys and disclose remuneration during their tenure.

Executive head: the executive head is elected by the governing committee and is responsible for the daily operation and management of the JLY record chain community, the coordination of the work of the subordinate committee, the chairing of the decision-making committee meetings, etc. The Executive Head reports regularly to the Policy

## Committee on the progress of work.

Business committee: responsible for the overall design planning of the community, as well as the introduction of relevant partners, etc.

Technical committee: the technical committee is composed of core developers, responsible for the underlying technology development and audit, product development and audit, etc. The Technical Committee holds regular project tracking meetings to communicate needs and project progress. Technical committee members need to understand community dynamics and hot spots, communicate with business participants and holders in the community and hold occasional technical exchanges.

## CHAPTER XAppendix

### 1. Risk


#### Tips

A variety of risks exist in the development, maintenance and operation of the JLY record chain, many of which are beyond the control of the JLY record chain developer. In addition to what is stated in this white paper, participants are invited to be fully aware of and agree to accept the following risks:

- Market risk

JLY record chain prices are inextricably linked to the overall situation in the digital money market, such as the overall low market prices or the presence of other uncontrollable factors, it may cause JLY record chain itself, even if it has a good prospect, but the price is still underpriced for a long time.

- Regulatory risk

Because the development of block chain is still in the early stage, there are no relevant regulatory documents about the pre-requirements, transaction requirements, information disclosure requirements, locking requirements and so on in the global collection process. And it is unclear how policies will be implemented, which could have an uncertain impact on  development and liquidity. blockchain technology has become the main object of supervision in all major countries in the world. if regulators intervene or exert influence, the JLY record chain may be affected by it, such as statutory restrictions on use, JLY record chain may be restricted, hindered or even directly terminated JLY record chain application and development.

- Competition risk

At present, there are many projects in the field of block chain, the



competition is very fierce, and there is strong market competition and project operation pressure. Whether the JLY record chain project can break through in many excellent projects is widely recognized, linked to its own team ability, strategic planning and so on, but also by the market many competitors are 至 oligarchs, there is the possibility of facing vicious competition.

- Risk of brain drain

JLY record chain brings together a team of talents with both vitality and strength, and attracts the senior practitioners of the block chain and the technical developers with rich management. During the future development, the possibility of core personnel leaving, conflict within the team and resulting in negative impact on the JLY record chain as a whole is not ruled out.

- Project technical risks

The accelerated development of cryptography or the development of technology such as quantum computers, or the risk of cracking to the JLY record chain platform, which may lead to the loss of data JLY the record chain. During the project update process, there may be a vulnerability, the vulnerability will be fixed in time after discovery, but there is no guarantee that it will not cause any impact.

- Other risks currently unknown

In addition to the risks mentioned in this white paper, there are some risks that the founding team has not mentioned or anticipated. In addition, other risks may arise suddenly or in a combination of multiple risks already mentioned. Participants are asked to be fully aware of the team background and the items before making the decision

☐ the overall framework and ideas, rational participation.

## 2. Disclaimer

this document is only used to convey the way of information and does not constitute a relevant opinion on the sale of this project; the above information or analysis does not constitute an investment decision; this document does not constitute any investment proposal, investment intention or abetting investment.



This document does not constitute and is not understood as providing for any sale, nor is it any form of contract or commitment.

The interested users are clearly aware of the risks of the project, and once the investors participate in the investment, they express their understanding and acceptance of the risk of the project, and are willing to bear all the corresponding results or consequences for the individual.

JLY record chain does not bear any direct or indirect losses resulting from participation in this project.