# Table of Content

1 Background .................................................................................................
   1.1 Introduction to and Prospect of BitNine Ecological Platform for Global Pan-tourism. 2
   1.2 Global Pan-tourism Market ...................................................................... 2
   1.3 Global Pan-tourism Industry ..................................................................... 3
   1.4 Global Tourism and Blockchain ................................................................. 4
   1.5 Targets of BitNine Ecological Platform for Global Pan-tourism ................... 4

2 Ecology of BitNine Pan-tourism ................................................................. 6
   2.1 Three Layers of BitNine Ecology .............................................................. 6
   2.2 Ecology of BitNine Community Participants ............................................ 6
   2.3 Ecology of BitNine Scenario Application System ..................................... 8
   2.4 BitNine Blockchain Ecology .................................................................... 12
   2.5 The Ecological Value and Prospect of BitNine ......................................... 13

3 BitNine Ecological Blockchain Technology ............................................ 14
   3.1 BitNine Ecological Technological Architecture ........................................ 14
   3.2 Personal Identity and Credit Data Center ............................................... 16
   3.3 Consensus Mechanism ........................................................................... 17
   3.4 Wallet ...................................................................................................... 18
   3.5 Node and Mining Machine ..................................................................... 19
   3.6 Modularized Smart contract ................................................................... 19
   3.7 Sidechain for Ecological Application ....................................................... 20
   3.8 Open API for Ecological Application ....................................................... 21

4 BitNine Token Economy ............................................................................ 22
   4.1 BitNine Token .......................................................................................... 22
   4.2 BitNine Ecological Fund ......................................................................... 22
   4.3 BitNine Mining Mechanism ..................................................................... 22
   4.4 BitNine Application Scenarios ................................................................. 23
   4.5 BitNine Token Issuance Plan ................................................................... 24
   4.6 Usage: .................................................................................................... 25

5 Project Progress ......................................................................................... 26

6 Company Profile ....................................................................................... 27

7 Core Members ........................................................................................... 27
1 Background

1.1 Introduction to and Prospect of BitNine Ecological Platform for Global Pan-tourism

The BitNine ecological platform for global pan-tourism is a product of the combination of blockchain technology and tourism industry based on the novel tourism identity and credit data system. BitNine ecological platform for global tourism provides customers with overall application scenarios concerning tourism, such as tourism consumption, tourism investment, and the application of pan-tourism business alliance.

As the founder of BitNine ecological platform for global pan-tourism, we are dedicated to building a convenient access to the sharing ecological platform for pan-tourism technical development and business cooperation based on the decentralization, non-tempering, irreversibility, expansibility, universality, and simplicity that have effectively reduced the threshold for accessing digital currency and blockchain, thereby benefiting the public with the dividend of blockchain technology.

The ultimate goal that BitNine ecological platform for global pan-tourism is pursuing is to link the participants of pan-tourism to build an ideal global pan-tourism sphere and realize co-creation, co-operation, and a win-win situation among all tourism ecological builders by means of decentralized and trustless blockchain.

1.2 Global Pan-tourism Market

Latest data released by International Tourism Society suggests that the total income of global tourism industry has reached eight trillion dollars, which accounts for 10% of global GDP. In 2017, the total number of tourists was 11.9 billion all over the world, which was 1.6 times world population. Both total number of tourists and tourism income grew faster than world GDP, increasing 6.8% and 4.8% in 2017, respectively. Therefore, tourism has made significant contribution to global economic growth.

On the one hand, tourism economy has been growing rapidly. On the other hand, traditional tourism pattern has faced with increasingly prominent problems. For example, the “pricey fish”, “tourist trap”, and “pass-the-buck” among departments in charge have been constantly reported. In these cases, how can tourists safeguard their legal rights? The
The aforementioned phenomena are rooted in that 99% of tourism transactions derive from the centralized third-party intermediary platforms in current tourism industry. Third-party platforms provide information aggregation, reservation guarantee, and credit rating, thus charging commission amounting to 40% of the transactions or more as their income.

Take the reservation of travel accommodation as an example:

From the perspective of travel accommodation service providers, they suffer from the high commission of third-party platforms, which is usually 15%-20% for conventional platforms and 10%-30% for sharing short-term rent platforms. In other words, 10-30 yuan (RMB, the same blow) out of the 100-yuan income of hotels/homestays will be taken by these platforms. On the other hand, refusing to cooperate with third-party platforms that possess tourism demand information will result in sharp decline of occupancy rate of hotels.

From tourists’ perspective, they are also deeply afflicted by the contradictory situation between successful online room reservation and “no room available” in reality.

From the platforms’ perspective, there is interest game between the B-end (such as hotels and inns) and platforms, which makes it difficult to guarantee user experience at the C-end.

1.3 Global Pan-tourism Industry

Pan-tourism industry is the main tendency for the development of current tourism industry. Covering a wide conceptual range, it is a generic term of a series of industries that provide people with experience consumption services that are interesting, artistic, informative, and exciting. Pan-tourism industry includes convention and exhibition, sports, health and fitness, and entertainment, etc. With an industrial chain covering various sectors like catering, transportation, hotel, business, and agriculture, pan-tourism presents high added value and overflow effect by integrating various industries.

The value of pan-tourism industry lies in constructing the experience content attractive to customers, gathering consumers, and building a diversified tourism and consumption world integrating recreational area, resort, exhibition area, entertainment area, pedestrian mall, consumption and recreational area, and tourism town, thereby forming powerful regional aggregation and economic facilitation and promoting regional course of urbanization. Currently, pan-tourism has been widely recognized as an effective means of improving urban
functions and promoting urban operation. From the perspective of economic operation, pan-tourism is a part of “travelling consumption economy”. Thus, a giant consumption economic framework can be constructed fusing all the forms of consumption economy based on the premise of “travelling behavior”.

1.4 Global Tourism and Blockchain

The feasibility of integrating global tourism and blockchain lies in the fact that blockchain is a novel application model that features distributed data storage, point-to-point transmission, consensus mechanism, and encryption algorithm. It is essentially a decentralized database. Intuitively, it is a reliable decentralized and trustless database technology that is targeted for solving the trust and security issues in transaction. Therefore, a direct link between users and business can be realized based on the decentralization technique of blockchain, thus avoiding the difference pocketed by the intermediaries. Starting from travelling accommodation reservation, a travel service ecology is built based on trust, incentive and zero commission. In a broad sense, the decentralized of blockchain based on this principle also applies to commercial activities, such as real estate property, hotel, entertainment, and casino.

According to the result of a Japanese tourism website named “Travelvoice”, Hotel Amaterrace-Yosuga that is the first hole supporting MUC, a digital currency, in Osaka was commenced on January 30, 2018. In South Korea, WeMakePrice, which is an online shopping website similar with Taobao in China, also pronounced to support MUC transaction from February 28, 2018. Up to now, businesses that have accepted MUC-based payment include Peach Airline that is the largest budget airline in Japan, Capsule that is a budget chain hotel, and Bic Camera that is a retailer, etc. Digital currency, on the whole, has been promoted and applied to all the sectors for the basic necessities of life. In addition, the other digital currency forms except for Bitcoin have also joined in the ranks of payment.

1.5 Targets of BitNine Ecological Platform for Global Pan-tourism

In view of the inefficiency, low transparency, and poor credit that tourism is currently faced with, BitNine ecological platform for global pan-tourism is aimed to reconstruct the ecology of global pan-tourism using blockchain technology. The platform provides efficient smart contracts, highly-transparent blockchain data, and trustless network services. BitNine ecological platform builds a BitNine application scenario system with the operating pattern of
BitNine participant community, setting an innovative example for current global tourism industry by centering on personal identity and credit system integrating the application scenarios of payment, consumption, investment, and business alliance, as well as BitNine blockchain technology. We have set a grand vision and clear targets:

- Establish an ecology for pan-tourism community participants
- Establish an ecology of five scenario application system
- Personal identity and credit data system
- Payment system
- Consumption and business system
- Investment, asset management and transaction system
- Business alliance open application platform system
- Establish a pan-tourism blockchain ecology

A novel and complete pan-tourism ecology is constructed by linking the aforementioned three ecologies and five scenario application systems.
2 Ecology of BitNine Pan-tourism

2.1 Three Layers of BitNine Ecology

A three-layer ecological framework is built by BitNine: community participant ecology; the ecology of five scenario application system; blockchain ecology. The three-layer ecologies constitute the global pan-tourism ecology based on BitNine credit and token. Moreover, the community ecological activities are constructed based on community participants, including tourists, tourism investors, tourism project participants, and businesses. Also, investment is made into the five-scenario application centered on credit data to promote the value cycle of the three-layer ecology, creating more value, and return the value to ecological participants continuously, thereby realizing ecological targets of co-creation, co-operation, and win-win situation.

2.2 Ecology of BitNine Community Participants

In traditional tourism industry, travelers seek to book cheap air tickets and hotel rooms and purchase cheap tourism-related consumption products and services, whereas businesses attempt to squeeze more profits from travelers even by providing fakes or unreasonable services, which has resulted in opposition between them. BitNine ecological platform for global pan-tourism is aimed to break such opposition with a novel concept of tourism community participant. We propose that both travelers and businesses are participants of the tourism community of BitNine ecological platform for global pan-tourism. Objectively speaking, community activity involves contributors and trustworthy participants. When one has made certain contribution or accumulated a certain amount of credit in the community, the platform ecological foundation will accordingly issue him/her BitNine earnings or set aside recommended visitor traffic. For example, travelers who pay for consumption using NINE (currency issued by BitNine) will be able to evaluate current consumption experience as a contributor. With positive evaluation, businesses will be awarded business integrity points. When business integrity points have reached a certain level, the business will become a trustworthy business that will obtain additional visitor traffic recommended by BitNine ecological platform. Excellent active contributors and trustworthy businesses will share the earnings of the BitNine ecological platform for global pan-tourism issued by BitNine ecological foundation.

BitNine ecological platform for global pan-tourism is aimed at establishing a better global
pan-tourism ecology. Excellent project initiators and investors are required to make a prosperous tourism ecology. As a result, tourism project initiator and investor will also be included as the BitNine community participants. Project participants (project initiators and investors) that possess regional resource will launch tourism projects by means of the community operation of BitNine ecological platform for global pan-tourism, such as local scenic spots, characteristic homestays, hotels, or tourism-related products or services. NINE can be used as the capital for crowdfunding. Tourists may give their comments and suggestions as contributors, or invest NINE into the projects and thus take a share from project benefits as investors. At the meantime, the projects with successful crowdfunding and proper management will bring steady income for investors, by which project participants will also enjoy higher integrity and thus become trustworthy participants.

BitNine ecological platform for global pan-tourism breaks the opposition between tourism participants by means of the community participant ecological model. In the future, there will be infinite possibilities in store for BitNine community operation. For example, tourists call on a package tour on the platform; senior tourists answer the questions asked by green hands; tourists vote for business and project participants; businesses help each other; senior investors share investment experience.

Excellent active contributors and trustworthy participants will be awarded by BitNine ecological foundation to enhance their sense of community participation. The contribution and credit behavior of participants will be recorded in BitNine credit system, by which they will be granted rights and interests on BitNine platform accordingly.
2.3 Ecology of BitNine Scenario Application System

The five-scenario application system of BitNine platform is the key ecology of BitNine pan-tourism. On the one hand, it is able to provide high-end community participants with...
complete pan-tourism experience. On the other hand, the value data in the community is entered into the blockchain database in the lower layer. BitNine identity and credit data system serves as the key to the five scenarios. We believe that an ecology with virtuous circle is built based on the value of integrity. An identity and credit system for pan-tourism participants is built using the high transparency, decentralization and irreversibility of blockchain. This credit system runs through the whole BitNine platform, thus constructing a perfect pan-tourism ecology.

2.3.1 Personal Identity and Credit Data System

The identity and credit data system of BitNine platform is dedicated to solving the trust issues between consumers, between consumers and businesses, and between businesses. We have proposed contribution point and credit point for the community participant system. Behaviors of ecological participants in community scenarios will be recorded. BitNine platform evaluates participant credit based on blockchain big data and artificial intelligence-based credit information, based on which BitNine credit is produced and recorded on blockchain. BitNine credit is divided into personal credit and business credit. (1) Participants with high personal credit points will enjoy credit privileges granted by BitNine platform, including credit travel, credit consumption, credit investment, and credit finance. (2) Participants with higher business credit points will be granted the credit visitor flow and business credit financial privileges issued by BitNine platform. Features of credit privileges of BitNine credit are:

Personal credit:

Credit travel: participants with certain credit points will enjoy deposit-free travelling privileges, including renting holes, homestays, cars, and travel accessories.

Credit consumption: participants with certain credit points will accordingly enjoy certain free consumer credit, consume first and pay later using the BitNine wallet or credit, and enjoy certain consumption discount based on personal credit.

Credit investment: participants with certain credit points will be eligible to participate in high-end investment projects and asset token transaction.

Credit finance: participants with certain credit points will be able to access travelling loans and consumer installment.
Credit customer traffic: businesses or project participants with certain credit points will be granted additional customer traffic for promotion.

Business credit finance: businesses or project participants with certain credit points are permitted to launch crowdfunding to raise funds.

2.3.2 Payment System

The payment system of BitNine platform is dedicated to solving the transaction problems concerning BitNine tourism ecology. It provides payment and transaction solutions for all tourism scenarios by linking to BitNine credit data. In the early stages, consumption and investment scenarios on BitNine platform are supported by BitNine wallet and BitNine international credit card. Besides, we have also proposed a concept of “credit as payment”, conducting platform management and providing users with top quality payment experience using the big data of our blockchain credit. Up to now, BitNine platform has been granted the European payment license and is planning to apply for more payment licenses to various countries all over the world. BitNine has also developed a Debit Card by cooperating with UnionPay International, which is designed for BitNine top-up and UnionPay consumption. In the future, BitNine payment system will provide more tourism payment scenarios with payment services, such as insurance, remittance, money management, and medical care. The other ecological partners will also be able to access to our payment Application Programming Interface (API), thereby promoting the global circulation of NINE.

2.3.3 Consumption and Business System

With an innovative idea of community participants, participant behaviors in the community are quantified by contribution points and integrity points, which are linked to corresponding NINE awards and improvement of their BitNine credit when the points have reached a certain level. This is a brilliant model since consumers and businesses that mutually opposite are transformed into joint community builders. Tourists give comments and suggestions whilst consuming, which will help business learn more about the market. On the other hand, businesses can also offer credible consumers discounts or gifts as a surprise for their consumption. In this way, high-quality consumers and businesses will stand out and unscrupulous ones will be excluded. Therefore, the quality consumption philosophy that
BitNine platform advocates will be sustained in such a mechanism of retaining the superior and eliminating the inferior. BitNine platform is dedicated to recommending top-quality businesses to consumers. We will make big data analysis based on online business information, save the analysis result in BitNine blockchain database, and recommend appropriate businesses to travelers according to their consumption history on BitNine platform. Currently, BitNine platform has accumulated the consumption data of hundreds of thousands of offline businesses all over the world and signed cooperation agreements with thousands of them that cover nearly every sector regarding tourism and travelling, such as airlines, hotels, homestay brands, catering, bars, scenic spots, hospitals, and local recreational facilities.

2.3.4 Investment, Asset Management and Trade System

BitNine platform insists that pan-tourism ecology contains not only consumption scenarios, but also investment scenarios. To build a complete pan-tourism ecology with better ecological circulation, BitNine platform is also committed to promoting the development of global high-quality tourism projects. By means of BitNine crowdfunding platform, tourism project initiators may raise funds for local scenic spots, tourism real estate, characteristic homestays, hotels, and tourism-related product or services, etc. High-quality tourism projects that pass the project initiator credit examination and overall project intelligent evaluation made by BitNine platform will be divided into a certain amount of token assets using the blockchain asset management and smart contract technique developed by BitNine. Afterwards, they will be launched to BitNine crowdfunding platform to raise funds. Investors who favor a certain project are allowed to purchase its token asset within a certain time limit. The token assets investors purchase will be recorded on blockchain as the physical rights of asset and rights to earnings that investors own with respect to the project. They may also purchase the right to earnings or consumption right of the project. In this case, BitNine platform will follow up the project progress and make asset management on behalf of investors and return the project earnings to investors as scheduled by the smart contract.

BitNine platform will also set up a token asset exchange to boost token circulation. Investors who invest into the crowdfunding project may increase their holdings, withdraw their investment, or invest in other existing projects. Transactions are all settled by NINE.
BitNine platform has given a new definition to tourism project investment using token asset and smart contract technique and overcome the difficulty in high-quality tourism project financing and investment withdrawal, thus significantly enhancing the mobility of project equity and creating a new atmosphere for global tourism projects.

2.3.5 Business Alliance Open Application Platform System

BitNine platform is confident that a perfect ecological platform should be inclusive, gathering different ecological partners with shared dividends for mutual benefit. Therefore, Restful API of BitNine platform will be open by BitNine business alliance open application platform system. Various capabilities, including BitNine credit, NINE payment, token, and blockchain technology, will be offered to developer and application platform partners of all industries, including tourism, travelling, entertainment, retail, catering, hotel, medical care, insurance, and education, thereby enhancing their quick access to BitNine platform. At the meantime, BitNine platform system is also synchronized for integration. In addition, the applications of partners can also be run independently or transferred to BitNine APP like applets, thus building a BitNine business alliance and an expansive dream of pan-tourism.

2.4 BitNine Blockchain Ecology

BitNine blockchain ecology is the underlying backbone of the whole BitNine pan-tourism ecology, providing the upper-layer ecologies with blockchain technology, artificial intelligence technology and big data technology, thereby implementing all the application functions regarding the ecology of BitNine scenario application system. In view of the problems currently facing mainstream blockchain, such as slow transaction, difficulty in expansion and access, the technical team of BitNine blockchain has developed and improved a public blockchain technology for total scenarios of pan-tourism ecology, so that not only have the decentralized, trustless and non-tempering characteristics of blockchain been retained, but transaction speed, expansibility and accessibility have also been enhanced. In addition, artificial intelligence and big data analytical capacity are also included. The Byzantine Fault Tolerance - Delegated Proof of Stake (BFT-DPoS) we develop is a novel consensus mechanism with a transaction speed reaching as high as 100 TPS, which is 140,000 times the speed or current Bitcoin or 30,000 times of that of Ethereum. It is able to process enormous transactions generated by ButNine pan-tourism ecology. BitNine blockchain ecology contains the miner system and technical
system. And our blockchain codes will also be released on global mainstream GITHUB codebase to ensure openness, justice, and fairness.

The miner system can be divided into common miner (node) and super miner (super miner). In BFT-DPoS, miners and super miners have their own divisions of labor—processing transaction consensuses, save transaction records in the blockchain database, and accordingly obtain NINEs at return, which is also known as “mining”.

Technical system contains all the underlying technologies used in BitNine platform, including BitNine token, BitNine credit, token asset, blockchain database, smart contract, consensus mechanism, DAPP, API, and mining machine, as well as artificial intelligence and big data.

2.5 The Ecological Value and Prospect of BitNine

According the report of 2018 released by Researchnester (https://www.researchnester.com/), a global industrial research institution, the scale of global pan-tourism industry had reached 7.6 trillion dollars in 2014, which accounted for 10% of world GDP of the same year. With an annual growth of 3.9%, it is estimated that the figure can reach 11.4 trillion dollars or 10.6% of global GDP by 2025. On the other hand, global pan-tourism investment was 814 billion dollars in total in 2014. With an annual growth of 4.7%, it would rise to 1.34 billion dollars by 2025. In addition, it was predicted by World Tourist City Federation that the total number of tourists would reach 11.9 billion in 2017 all over the world, which was 1.6 times of global population.

As one of the largest worldwide industries, pan-tourism is still suffering from inefficiency, low transparency and poor credit, which has lead to loss to tourists and tourism industry, even to the whole nation. BitNine team has been committed to pan-tourism industry and considering to solve the following issues: (1) how to overcome industrial vices? (2) how to enhance industry transparency and benefits? (3) how to keep a virtuous cycle? Following an “ecological, co-creating, co-operating, and win-win” value, BitNine has built a “community- application-technology” three-layer ecology, establishing a value delivery system from upstream to downstream of pan-tourism and reconstructing a complete global pan-tourism ecology based on BitNine credit and token.
Now BitNine platform is working on the connection between upstream and downstream industries and serving the whole pan-tourism industry amounting to 7.6 trillion dollars. In the future, BitNine will pay close attention to the four general trends of pan-tourism industry: (1) sustainable development of pan-tourism industry, (2) accelerated development of pan-tourism cities, (3) rapid expansion of sharing economy, (4) accelerated integration between pan-tourism and the other industries. BitNine will empower and boost the development of ecological partners of all industries by means of BitNine ecology and the power of blockchain technology. In the general trend of globalization and integration, BitNine shoulders the mission of empowering and serving pan-tourism that links global industries, including agricultural tourism, sports tourism, medical tourism, recreational tourism, leisure and business travel, gambling tourism, and investment tourism, thereby building a super global pan-tourism ecology valued at tens of trillions of dollars.

3 BitNine Ecological Blockchain Technology
3.1 BitNine Ecological Technological Architecture
Ethereum technology is taken as the underlying blockchain architecture. The underlying
parent blockchains are connected to different sidechains, including personal identity and credit data blockchain, payment blockchain, transaction system blockchain, investment and asset management blockchain, and business alliance open application blockchain. With this architecture, independent blockchains with different functions are separated and run independently. A multi-layer strengthened identity authentication mechanism is used to safeguard the transactions between blockchains, so that the parent blockchain can maintain sufficient computing power to fulfill ledger synchronization and security protection mechanism, thereby constructing a flexible ecological system with reliable ledger operating capacity and high compatibility to tourism industry.
3.2 Personal Identity and Credit Data Center

BitNine believes that user identity authentication, privacy, and the integrity of credit information are the most important cornerstones of the platform. Therefore, BitNine team has built the personal identity and credit data center using the top-level security protection technology. The key function of personal identity and credit data center is for user identity (UUID) identification and claims in BitNine ecological system and extended services, the former of which is a random alphanumeric character string generated upon user registration. It is the unique identification code of an individual user in BitNine ecology. To protect user privacy, personal identity and credit data center will exchange signature with relevant services during identity authentication, which is aimed to determine that the service applying for authentication has sufficient permissions to read the identity data of a certain user. Claims are designed to record and prove the evaluation, points, and ownership a certain user obtain in BitNine ecological system, including the seals, content, and time limit and transfer forms that can be performed. Services provided by personal identity and credit data center will ensure the permanent existence of user identity, information, and ownership in BitNine ecological system.
Besides, user privacy is impregnably safeguarded.

### 3.3 Consensus Mechanism

BFT-DPoS is used as the consensus mechanism algorithm of BitNine blockchain, which is a novel DPOS-based algorithm of random block generation by witness. Every block generated by the witness suggests that the witness has made validity confirmation and expressed recognition of the whole blockchain. When over 2/3 of witnesses have expressed recognition, this transaction is considered irreversible. With BTF algorithm added, the witness generates a new block in this mechanism, which is immediately verified and signed by the other witnesses without waiting for the generation of another block to verify this one. In this way, transaction confirmation time has been significantly reduced, with transaction speed reaching 0.8-1 million TPS. By strengthening this algorithm, BitNine team has added a hybrid identity random witness mechanism whilst perfectly solving network delay and disagreement. Overall transaction speed has been boosted with ledger security and non-tempering principle guaranteed, thereby supporting the all-round development of BitNine ecological system.
3.4 Wallet

The wallet is a program storing encrypted currency. Every user registered on BitNine platform will be granted a wallet matching his/her private key, which is the only means of accessing the digital currency in the wallet and is thus the only way to sending the currency. Users keep their digital monetary assets in the wallet, which are equivalent the “common” money in our wallet. Generally speaking, users are not likely to put all their money in one wallet and they don’t think the wallet is safe enough, either. In this case, backup copy and security code are required to enhance the safety factor of the wallet. In addition, users may consider the wallet as a deposit book (paper wallet). Since the wallet is not accessed to the Internet, it is less vulnerable to hacker attacks.

Essentially, managing the digital asset is managing the private key, which has always been a tender spot for users. Once the key is lost, there won’t even a chance to retrieve it. As a result, most users prefer to trust their asset to the exchange, which, however, has posed assets to the risk of theft and platform collapse. This also goes against our original purpose of decentralization.

To safeguard the account security of BitNine users, BiNine has provided wallet applications with official certification—BitNine wallet that covers Web and APP versions. Besides, we also provide the cold and warm wallet use contexts. Officially certified wallet applications are provided with various protection mechanism, such as version verification and anti-phishing. Moreover, asset security is enhanced by some other means, such as anti-lost backup and offline signature. The concrete means are given as follows:

Firstly, the “cold wallet” mechanism is applied. The private key of a cold wallet is stored in an offline smart phone. Transaction authority is made by means of offline signature pairing. It is inaccessible by any other application.

Secondly, users are required to set a password once again based on private key. The new password is stronger since it is generated by hundreds of thousands of times of hash function operations, which is used to encrypt the clear-text private key into a cipher-text key. Then, the cipher-text key is stored in the file system. Every time the key is accessed, it must go through user authorization. The transaction signature cannot be made until the password is entered and
the private key is unlocked.

3.5 Node and Mining Machine

Awards to all the nodes on BitNine platform are issued based on the evaluation during transactions and the levels of interactions within the ecology. Besides, a fixed proportion of NINEs will be granted to nodes according to their participation performance every year. BitNine platform provide the following mining mechanism:

Ledger nodes on the parent blockchain of BitNine platform do not provide mining service. These nodes are elected based on BFT-DPoS. Every year, ledger nodes are awarded by BitNine platform as per the number of blocks.

Function sidechains of BitNine platform provide mining services instead of ledger services. The consensuses they follow can vary with services. Sidechain service nodes are awarded by BitNine platform at fixed rates every year.

BitNine platform defines an ID for each mining node. With fixed numbers, this ID is also the mining node ID generated by BitNine every year. It is also an inhomogeneous token. In other words, it is the only ID throughout the network. For mining legitimation, each mining node must have and only have one ID. BitNine platform offers awards to those mining nodes with IDs and inhomogeneous Tokens.

Considering that the number of sidechain services nodes (the number can be infinite) is not fixed like ledger nodes, BitNine platform will confirm whether a Node is qualified for mining based on mining ID in order to ensure the nodes providing mining services obtain sufficient earnings. For the sake of fairness to the other nodes, ID validity is one year. And mining nodes will be re-selected when their IDs expire.

3.6 Modularized Smart contract

Smart contracts on BitNine platform are irreversible. Therefore, these contracts can be automatically performed if they satisfy certain predetermined conditions. This feature ensures the fairness of smart contracts for all participants, with the whole process recorded. In addition, the rights of all parties are also ensured in the future.

BitNine blockchain technology supports a complete and advanced smart contract specification that contains two protocols, namely ERC 20 for mainstream digital currency
transaction and ERC 721 that supports digital asset registration and transaction. ERC, short for “Ethereum Request for Comments”, means a standard for uniform communication interfaces that are established by Ethereum developers based on public opinions, so that it will be easier for developers to write smart contracts. Currently, ERC 20 is a mainstream Ethereum token standard with the largest number of users. ERC20 token a mainly a utility token. Entrepreneurs issue tokens to users who, in turn, use the blockchain services developed by entrepreneurs by means of tokens. ERC721 is another Ethereum token standard that can be used to process non-replaceable assets. A replaceable asset resembles currency that can be replaced by any other equal units except housing and furniture. This is the main effect of ERC721 standard. Assets can be transformed into unique 256-bit tokens based on ERC721 standard. Such tokens can be tracked by the smart contracts on blockchain, thereby building digital assets.

3.7 Sidechain for Ecological Application

BitNine platform is able to establish various means of intelligent transaction payment using sidechain technology. Sidechain technology has further expanded the range of application and innovative space of blockchain network of BitNine platform, enabling the blockchain network of BitNine platform to support a variety of asset types, as well micro-payment, smart contract, safe handling mechanism, and asset registration in the real world, etc. In addition, it also enhances the privacy protection performance of blockchain. Sidechain, also known as pegged sidechain, is another blockchain parallel to the parent blockchain. It is linked to the parent blockchain by “two-way pegging”, thereby conducting two-way transfer between the parent blockchain and sidechain.

On BitNine platform, one sidechain communicates with the other blockchains using Simplified Payment Verification proof (SPV) and joint pegging, which has made pan-life businesses no longer worry about the expansibility for innovation and adaption to new demands. Instead, what they need to do is simply connecting the sidechain technology of BitNine platform with third party blockchains. Considering that the sidechains of BitNine platform are an independent and isolated system, the influence of sidechain-related problems will be confined to the certain sidechain(s), which has significantly reduced the risks and cost of innovation. With sidechain technology and the smart contract function on blockchain network, BitNine platform enables users to make multi-industrial and cross-company payment transactions on
the blockchains of BitNine platform, thus opening a channel with which different blockchains communicate with each other. This will allow BitNine ecological system to achieve continuing advancement by drawing vitality from different blockchain systems.

3.8 Open API for Ecological Application

API plays a vital role on pan-life platforms like BitNine. Generic and stable API infrastructure enables users to access to BitNine platform more easily. BitNine platform will officially open blockchain technology by means of the APIs released on BitNine’s developer platform, thereby providing businesses, service institutions and partners with a novel application scenario access mode.

BitNine APIs allow registered users to inquire blockchains and send transaction-related
signals. They also allow developers to run fast test of chain codes or inquire transaction status. To facilitate the connection of business systems between cooperating businesses, service institutions and BitNine, BitNine blockchain system also offers enterprise-level APIs, providing business functions in the form of REST API over ssl for coordinated operation. On the one hand, this allows quick access of cooperating businesses and service institutions to BitNine blockchain system and system integration. On the other hand, user data can be accessed through the platform in real time. BitNine is striving to build a vertical application platform for blockchain life-style, devoting to gathering businesses and service institutions of all industries all over the globe and providing quality pan-life services.

### 4 BitNine Token Economy

#### 4.1 BitNine Token

As the key to BitNine pan-tourism ecology, BitNine token, together with BitNine credit, is the value carrier throughout the whole ecology, connects the three-layer ecologies and BitNinet, and builds BitNine ecological circulation. BitNine Token (i.e. NINE) is the only token that BitNine platform issues. In the early stage, NINE will be issued based on ERC20 smart contract. Later, it will be transferred to the major network of blockchain when the network is completed. Current size of issue is 600 million in total. Later, with mining mechanism added, an additional 10% will be issued in the next year, 9% in the year after, and so forth until it declines to 1%. NINE can be applied to a variety of scenarios with infinite possibilities. With an increasing number of ecological users and partners and the continuous development of ecological economy, we are convinced that the value of BitNine token will be substantially and continuously enhanced.

#### 4.2 BitNine Ecological Fund

For the first issuance, 30% of NINEs will be reserved as the foundation of ecological incentives, which will be used as the award pool for platform users. The award index will be determined flexibly by the system according to active index, integrity points and contribution points, based on which a corresponding number of NINEs will be allocated to the award pool every day.

#### 4.3 BitNine Mining Mechanism

BitNine miner system consists of miners and super miners. In the operation of BFT-DPoS,
miners and super miners are required to hold NINEs for voting and transaction consensus. The transactions are then recorded in the blockchain database. At the meantime, they are accordingly granted bonus from BitNine award pool and transaction fees as return. This mechanism makes BitNine blockchain supporter more motivated to establish miner unions to promote the ecological development of BitNine blockchain. In addition, we are planning to reserve 10% of NINEs as the award of the mining pool for the first year when the major network of blockchain is launched. In the next year, another 10% will be issued; this proportion will decrease by 1% every year until it declines to 1%. This is intended to stimulate miners to be dedicated to BitNine blockchain ecology continuously. We are also planning to develop our dedicated mining machines for NINE, so that even green hands can join the miner union without trouble.

4.4 BitNine Application Scenarios

BitNine platform serves pan-tourism industry with abundant application scenarios. Therefore, it applies widely to global pan-tourism. Up to now, BitNine has launched pan-tourism payment services, including tourism in Southeast Asia, Labuan of Malaysia, hotels, duty-free merchants, air tickets, transport, and real estate. Moreover, there are some other BitNine payment scenarios: BitNine business-related consumption, P2P transfer, BitNine DEBIT CARD top-up, and ecological partner payment, etc. In the future, there will be higher demands on NINEs with the increase of application scenarios and the number of cooperating enterprises of all industries.

The investment, asset management, and transaction system are also the major application scenarios of BitNine platform. NINEs can be used to invest in quality pan-tourism projects by means of BitNine crowdfunding and BitNine token exchange. Earnings are also settled using NINEs, thereby enhancing the demands on NINEs and the amount of NINEs in circulation.

In BitNine blockchain ecology, including the transaction consensuses, smart contracts, asset tokens (NRC 721) and tourism tokens (NRC 20) generated by BitNine ecological partners, NINE will be taken as fees paid to miners whose earnings can be realized in the exchange, thus establishing a virtuous circulation.

We are committed to cooperating with various digital monetary exchanges all over the world, striving to promote enterprises of all industries to accept NINE as the digital currency
they can use for payment by means of mutual reinforcement. We will also establish cooperation with traditional financial institutions, international exchange agencies, and cross-border e-commerce enterprises, providing them with cross-border solutions based on blockchain and big data and promoting NINE as the digital currency of settlement.

4.5 BitNine Token Issuance Plan

4.5.1 Issuance Rules:

Token name: NINE          Current size of issue: 600,000,000

Issue price: 1 NINE = 0.5 USD

4.5.2 Allocation Plan:
4.6 Usage:

- R&D: 40%
- Marketing: 30%
- Platform Operation: 10%
- Law: 17%
- Licenses: 3%
5 Project Progress

<table>
<thead>
<tr>
<th>Project Period</th>
<th>Project Description</th>
</tr>
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<tbody>
<tr>
<td><strong>01/2018</strong></td>
<td>Project initialization and completion of a comprehensive investigation of global pan-tourism industry</td>
</tr>
<tr>
<td><strong>02/2018</strong></td>
<td>Completion of blockchain production investigation and the architecture of BitNine pan-tourism ecology</td>
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<tr>
<td><strong>03/2018</strong></td>
<td>Design of the details of BitNine pan-tourism ecology, including users, application scenarios, and technical architecture</td>
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<tr>
<td><strong>04/2018</strong></td>
<td>Commencement of the technical development of BitNine platform</td>
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<tr>
<td><strong>05/2018</strong></td>
<td>Signing of the Southeast Asian tourism partnership agreement and negotiation with other potential partners</td>
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<tr>
<td><strong>06/2018</strong></td>
<td>Presale and issuance of NINE</td>
</tr>
<tr>
<td><strong>07/2018</strong></td>
<td>Completion of the development of the underlying technical architecture for BitNine platform</td>
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<tr>
<td><strong>08/2018</strong></td>
<td>Setup of office in Southeast Asia</td>
</tr>
<tr>
<td><strong>09/2018</strong></td>
<td>First release of BitNine wallet</td>
</tr>
<tr>
<td><strong>Q4 of 2018</strong></td>
<td>First release of BitNine APP that contains community, payment, investment, and business functions. Release of DEBIT CARD Signing of tourism partnership agreements with 20 cities</td>
</tr>
<tr>
<td><strong>Q1 of 2019</strong></td>
<td>Completion of BitNine public blockchain V 1.0, followed by tests Release of BitNine APP V 2.0, in which some optimization is made and BitNine credit is included Signing of tourism partnership agreements with 20 cities</td>
</tr>
<tr>
<td><strong>Q2 of 2019</strong></td>
<td>Integration between BitNine APP and public blockchain Release of beta BitNine public blockchain network Signing of tourism partnership agreements with 30 cities</td>
</tr>
<tr>
<td><strong>Q3 of 2019</strong></td>
<td>Completion of integration between BitNine APP and public blockchain Release of BitNine public blockchain Launch of mining machines and the pool ecology Signing of tourism partnership agreements with 30 cities</td>
</tr>
<tr>
<td><strong>Q4 of 2019</strong></td>
<td>The number of BitNine members reaches over two million and that of businesses over 200 thousand Completion of the technical development of business alliance open application platform, followed by tests The number of cities signing tourism partnership agreements with BitNine reaches over 100</td>
</tr>
<tr>
<td><strong>Q1 of 2020</strong></td>
<td>Overall update of BitNine platform and APP Launch of BitNine business alliance open application platform initiative More cities signing tourism partnership agreements, expansion to western markets</td>
</tr>
<tr>
<td><strong>Q2 of 2020</strong></td>
<td>Release of BitNine public blockchain V 2.0 to build a more open blockchain ecology</td>
</tr>
<tr>
<td><strong>Q3 of 2020</strong></td>
<td>BitNine pan-tourism covering all the industries The number of BitNine members reaches over five million and that of businesses over 300 thousand. The number of investment projects reach over ten thousand The number of cities signing tourism partnership agreements with BitNine reaches over 300</td>
</tr>
<tr>
<td><strong>Q4 of 2020</strong></td>
<td></td>
</tr>
</tbody>
</table>

*BitNine Whitepaper Version 2.0*
6 Company Profile

BitNine platform is a pan-tourism platform that BitNine International strives to build. Registered in Cayman Islands in 2005, BitNine International is a Malaysia-based enterprise that owns a variety of industrial entities. BitNine International has obtained the exploitation right of Labuan Duty-free Special Financial Zone (an agreement with local government has been signed). It also set foot in the real estate property development in the downtown area of Kuala Lumpur. On January 16, 2018, BitNine officially acquired Online Currency Corp LTD of Malta. BitNine holds the financial service licenses granted by Malta: 06 - Money remittance, 08 - Issuing electronic money, 09a - Distribution of electronic money, and 09b - Redemption of electronic money, which are four Financial Conduct Authorities (with which BitNine is able to legally issue digital currency under supervision).

7 Core Members

Huang Dongsheng | Chairman of the board

Mr. Huang, aged 60, has been working in investment and enterprise operation for over three decades and thus accumulated extensive contacts in various fields in China mainland, Hong Kong, and Asian-Pacific Region, including cultural, film and television industry, gold mining, organic crop production, fund investment management, with excellent performance obtained.

In his early years, Mr. Huang served New World Group and Sun Hung Kai Properties (China) where he worked on business expansion in China mainland. Later, he worked on gold mining in Shandong Province. In 2010, Yinfu Gold was listed in the United States. He also served as the
executive director of Giant International (1329) in 2013. Now, Mr. Huang is the founder, major shareholder and chairman of the board of Yinfu International Group Co., Ltd. With years of effort, Yinfu International has extended business to a variety of industries, including cultural industry, mining, gold and jewelry, pharmacy, and construction. Mr. Huang thus holds several posts simultaneously.

President Xi Jinping advocated the “Belt and Road” initiative in 2015, which was committed to promoting the troika of economic growth—investment, trade, and consumption, taking cultural industry as the basis of sustainable development, giving full play to its advantages based on actual demands, and laying foundation for interconnection between facilities, trade, and finance, thereby finally establishing an interest community with political mutual trust, economic integration, and cultural tolerance, as well as a community of destiny and responsibility. To facilitate China’s strategy in Africa, China Africa Countries Development Bank will be founded with the approval of the Republic of Guinea, which is aimed to settle the business in all 56 African countries in RMB. The Republic of Guinea will also enter sister-city agreements with some Chinese cities, promote mutual friendship and strive for mutual development by means of trade and cultural exchanges.

Maritime Silk Road that is aimed to strengthen cooperation between China and surrounding countries will establish a transportation network connecting Eastern Europe, West Asia and Southeast Asia, thereby facilitating the economic development of and exchanges between countries involved. Not only will the economic belt along Maritime Silk Road reinforce and develop the economic and trading relations between China and Southeast Asia, but it also helps China to reach the other regions, such as South Asia and Africa. Building Maritime Silk Road of the 21st century will benefit both the Association of Southeast Asian Nations (ASEAN) and China, even the whole world.

Malaysia is an important node in Maritime Silk Road. To facilitate the development of Malaysia, Yinfu Group has signed agreements on the expansion and operating management of four state-owned airports, the construction of forty thousand affordable houses, operating management of 450 former Malaysian royal police cooperatives and clubs, the development of Sabah Kudat gold coast entertainment center, and a comprehensive college in Malacca with
Malaysian government. The group has also purchased a 30-thousand-\textit{mu} (1 \textit{mu} = 666.6 m\textsuperscript{2}) sea surface to develop ecological eucheuma (also known as sea bottom cubilose) industry.

**Thomas Ng | COO**

Mr. Wu, COO of our parent company, graduated from Ying Wa College, Hong Kong University (HKU), and world-famous universities with bachelor’s degree (majored English and British literature), an educational practitioner diploma, and a degree of MBA.

Teaching experience: Mr. Wu was invited to teach a diploma course (advanced management) in SPACE of HKU and serve as the member of Faculty of Education of HKU in 2001. Upon invitation, Mr. Wu joined King's Glory Education in 2003 and attracted over 1000 students within three months. During 2004-2007, he was invited to make speeches on marketing skills and management in China mainland-based large enterprises, such as Zhida Group, Caixuan, and Fangge, with favorable response!

Marketing experience: Mr. Wu ran health care products, sold Fuji massage chair and nursing products (Japanese top brand), and served as the general agency of Fuji in Hong Kong during 2004-2005. In the same year, his sales set a record in Asia! In November, 2005, Mr. WU was invited to join Ogawa Health Care, a Malaysian listed group company, and acted as the general manager and shareholder in Hong Kong. He was in charge of marketing, promotion, training, brand building, after-sale services, recruitment, and management. With his effort, health care products of Ogawa Health Care gained a firm stand in Hong Kong market, with seven franchised stored set up in one year. His sales performance also broke the record constantly.

Media experience: Mr. Wu was invited to serve as the president assistant and chief editor
of education column of Gong Zheng Bao (former Tian Tian Daily News) in 2000. Later, he acted as the chief editor, marketing director, and market promotion director, etc. Dedicated to work, he worked from nine o’clock in the morning to two o’clock at midnight every day (working on paper delivery in the factory of Tai Po District). Therefore, Mr. Wu is familiar with the business of news offices and knows the importance of frugality.

Futures experience: In the mid-year of 2006, Mr. Wu was invited by Zhihua International to participate in the translation and discussion of the feasibility report for multiple iron mines (open-pit) in Australia. He also participated in the acquisition of iron mines and diamond mines of various countries, such as Cambodia, Vietnam, and Burma, as well as forest development, real estate property, and capital construction and financing. Moreover, he also followed up the acquisition and reconstruction program of a Wenzhou-based cement factory, the transactions between Russia and China, such as fuel oil M100/75 and D2, and futures trading of waste steel, tungsten alloys, and iron ores. In 2007, Fuji (Hong Kong) run by Mr. Wu obtained the agency of OAOSURGUTNET, which enabled it to deal fuel oil, such as M100 and D2, for its own. Also, Mr. Wu is also a master of gold (AU) futures.

Financial experience: in the mid-year of 2007, Mr. Wu got acquainted with and followed James Carlson who is a financial expert, from whom Mr. Wu learnt bill financing, short-term/long-term money management and investment, and discrimination of the L/Gs and L/Cs issued by banks. Upon invitation, Mr. Wu served as the financial consultant of SASAC platform (20/F, Four Season Place), SC Johnson Wax (40/F, Four Season Place), a Singaporean consortium (30/F, Four Season Place) in early 2011. In the middle of 2011, he was appointed by Hong Kong Polytechnic University system management institute as enterprise cooperation director that was responsible for enterprise financing affairs at home and abroad. Over the past few years, Mr. Wu has also established long-term partnership with Kenneth Kwok who is the chief executive of UBS in Greater China region, DiannaHo who is the general manager of JPMorgan, Ronald Leung who is the administrative president of Austrian Bank, and the presidents of Standard Chartered Private Bank, Fubon Bank, Kim Eng Securities (May Bank), Agricultural Bank of China International, Bank of Communications International, Bank of China International, and China Orient. Therefore, Mr. Wu does a familiar job with ease in
helping enterprises to apply for loans by various financing channels (such as bank loans, bridge financing, and bill financing), IPO, and other businesses. In early 2013, Mr. Wu was invited to serve as the director and general manager of Yinfu International (the branch company of Beijing Huada Joint Investment Management Co., Ltd in Hong Kong), in which he was responsible for project financing and loans, asset management, and venture investment. When it came March, 2015, Mr. Wu jointed WorldCR and acted as the chief executive. He worked on the business of the company in Hong Kong, including issuing dim sum bonds, financing, crowdfunding, and applying for licenses (No. 1, 4, 6, and 9) issued by CSRC for domestic enterprises. Mr. Wu set up Langqiang International Co., Ltd at the beginning of 2016, which was aimed to assist domestic and foreign enterprises with IPO, financing, bond issuing, license application, and financial lectures in Hong Kong, etc.
The Technical Team of BitNine

Ben Li
- Director of WBD.
- Assisted over 30 Internet companies with system development.
- Six years of experience in digital currency transaction and research.
- Served in various top technology companies, including Microsoft, Google, Dell, AT&T.

Sergey Chernov
- Former CTO of Cybiko.
- 17 years of experience in cryptology.
- ASM C++, Ruby, JS.
- Former CTO of Glomper.

Carlos Taylor
- Graduated as a bachelor from Stanford School of Engineering.
- Served in various top technology companies, including Google, HP, and Snapchat.
- 28 years of experience in system development and architecture.

Maosiung Chen
- Licenses and certificates on technology and management of Cisco CCNA, Linux, SCP, and MCSE.
- Master of School 42 Silicon Valley.
The Operation Team of BitNine

**EVGENY TAUBKIN**
- Investing in 95 startups in his portfolio.
- Cofounder of VentureClub.co.
- Served as the investment director of Skolkovo and founded Skolkovo business angels club during 2013 – 2015.
- Raised over three billion dollars to invest in startups of banking, high technology, renewable energy resources, Biomedicine, information technology, and microelectronics, etc.

**Alexander Borodich**
- Investing in 95 startups in his portfolio.
- Cofounder of VentureClub.co.
- Served as the manager or a higher post in over 10 companies.
- EMBA of Stockholm School of Economics.
- Serial entrepreneur; handling four export projects.

**June Yang**
- Researcher of WBD.
- 13 years of experience in marketing of international enterprises.
- 7 years of experience in Internet marketing and finance.
- Cofounder of SCHOENEICH.

**Joshua Rich**
- Director of WBD.
- Counselor of Professional Association for Foreign Exchange and Digital Currency Investment.
- Senior manager of Lloyd’s of London.
- Senior manager of WBF.
Thank You

谢谢