

2022

BNBF

**BSC smart chain
Traffic distribution platform**



BNBF

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Summary

—Web3 leaders join Binance's Industry Recovery Initiative. As a leader in the crypto space, we know that Binance has a responsibility to lead the industry in promoting user protection and rebuilding the industry. This is why we established the Industry Recovery Initiative (Industry Recovery Initiative), hereinafter referred to as "IRI", this is also a new co-investment opportunity for those institutions looking to support the future of Web3.

Key takeaways from the Industry Recovery Plan:

IRI is not an investment fund.

Any participant who wants to go through the IRI application process to obtain an investment opportunity must leave his committed capital (which can be a stablecoin or other token, at the participant's discretion) on a public address.

Each participant, including Binance, will review investment opportunities on a case-by-case basis and make independent investment decisions.

We understand that traditional financial institutions may want to participate in the program but are unable to transfer funds to public addresses. Therefore, Binance is willing to discuss syndicated transactions with willing institutions under the broader IRI theme.

Binance expects this plan to last for 6 months, and the fund will maintain flexibility in investment structure – tokens, fiat currencies, equity, convertible instruments, debt, credit lines, etc., according to specific analysis of the expected specific situation.

At the end of the program, each participant can withdraw the remaining unused funds from the public address.

Initially, Binance pledged to spend at least \$1 billion on IRI-themed investment opportunities, increasing to \$2 billion if needed in the future. So far, Jump Crypto, Polygon Ventures, Aptos Labs, Animoca Brands, GSR, Kronos, and Brooker Group have committed to an initial fund totaling at least \$50 million, and we expect more participants to join soon.

Binance's initial commitment of \$1 billion BUSD public address is: 0x043a80999cEe3711D372FB878768909fbE7F71E6

Binance has so far received around 150 applications seeking IRI assistance. Each co-investor within an IRI will have the opportunity to review potential transactions within it and decide for itself whether it would like to participate in the investment. Binance anticipates that some deals will be funded unilaterally and others will be co-invested by all or some of the IRI participants.

The goal of IRI is to support the most promising and high-quality institutions and projects, which are established by top technical personnel and entrepreneurs, and are not in short-term financial difficulties due to their own poor management. Unique to this initiative is the collaborative approach that will be taken to restore confidence in Web3.

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Overall, Binance will be looking for projects with the following characteristics: 1) innovative and long-term value creation capabilities, 2) clear and viable business models, and 3) strong focus on risk management.

In addition to financial assistance, Binance also plans to provide developers and projects with comprehensive support—from team formation, technical implementation, fundraising, etc.—so that they can emerge from the crypto winter stronger.



1. The Rise of the BNBF Platform

1.1 BSC Chaos

The pool ran away, the coin fell and the mine collapsed, the team information was accused of falsification, and the project party made a mistake and caused a tragedy... Recently, all kinds of project chaos have been staged in BSC in turn.

When users were injured, the BSC public chain was also criticized. Users with decentralized consensus beliefs believe that investors should not attribute the evil deeds of some projects to the developers of the public chain network, because they should only be responsible for the safe operation of the chain, in principle, and in fact, they cannot Control what kind of applications can be deployed on the chain.

Those users who are unwilling to use the standards of the public chain to evaluate BSC use the lack of decentralization of the BSC smart chain itself as the spear of attack, and believe that Binance Exchange should fulfill the responsibility of project review. The thinking of listing coins on centralized exchanges has become the perspective for some people to examine the public chain of exchanges.

The industry likes to compare the exchange public chain with Ethereum, and the difference in technical indicators is not fundamental. The essential difference between the two parties is the gene of ecology. The Ethereum ecosystem was built by a group of people who gradually received training in decentralized governance. This process took 6 years. The BSC smart chain, which has just been born, brings together users in the currency circle who are accustomed to centralized transactions.

The trust crisis brought about by some projects may not be a bad thing. For the exchange public chain, how to gradually pave the way for community governance in the process of transitioning to complete decentralization is the long-term solution. Some suggestions and explorations are underway .

On March 4, 2021, Meerkat Finance, a project on the Binance Smart Chain BSC, claimed to have been hacked and lost as much as \$31.5 million. The project took only 15 hours from launch to thunderstorm.

Since then, the blockchain security agency has slapped Meerkat Finance in the face, and found that the project's treasury contract is a modifiable agency contract, and there is a problem of self-retaining backdoors. The project later sold the domain name on the official website for 10,000 US dollars, which amplified the suspicion of misappropriating money and running away.

After the incident, the damaged user stated that he had reported to Binance and asked to block the address of the project party. Someone else called the police. He Yi, the co-founder of Binance, also replied that the security team of BSC is following up and has contacted several security audit institutions.

The turning point is that Meerkat Finance appeared again, slyly claiming to invite hackers to help users understand the risks of smart contracts. The wording is ridiculous and unbelievable. In the end, under pressure from Binance, the project returned most of the funds.

Since the beginning of this year, problematic projects have frequently appeared on the BSC smart chain, and were dismissed by users as projects that can be cut and left. Such projects appeared on Ethereum on a large

scale in the second half of last year, when DeFi became popular in the market due to the liquidity mining model. Today, while the high-yield applications on the BSC smart chain attract users, they also attract some low-quality projects.

There are frequent incidents of projects running away on the BSC smart chain. Popcornswap has lost nearly 48,000 BNB. Recently, Zap Finance, Tin Finance, and SharkYield have all run away, and SharkYield is suspected of taking away 6,000 BNB.

1.2 Advantages of Blockchain Anonymity and Decentralization

Satoshi Nakamoto established the basic principles of the blockchain with the Bitcoin network, creating a decentralized value circulation network that does not require permission, is transparent and anonymous, and can be accessed freely. He hopes that human wealth can be controlled by his own private key. Do not transfer this right to another party.

The other side of absolute self-determination of property rights is the responsibility and risks that people need to bear when controlling and disposing of finances, such as unsafe storage of assets, such as facing fraud and thieves, such as potential losses when investing assets.

Following the principles of Bitcoin, Ethereum spent 6 years paving and continuing to pave the way for a decentralized ecology. Due to the existence of the research and development force of the exchange, the BSC smart chain has become a heterogeneous in the public chain market. They not only have the attributes of an open public chain network without review, but also because the current nodes are not independent and the governance is not decentralized enough. subject to controversy. This lack of decentralization is affecting the two major groups connected to the public chain of the exchange – application developers and users, both of which are the main constituent groups of the ecology.

For DApp developers pursuing anti-censorship, they do not want to be controlled by the chain, whether it is the developer's or the application user's; When it comes to projects that do evil, if you want to make money safely, if you encounter a project with malicious intentions, it is best for the exchange to come forward as it did in the past.

Therefore, as the developers of the chain, the centralized exchanges are caught in a dilemma, and no one can harm the interests of the application side and users. If projects are censored to protect users and developers cannot be trusted, the application market may shrink, users will have nowhere to go, and the ecology will be impossible to talk about; without censoring projects, unpredictable projects are like ticking time bombs, which come out from time to time to hurt users and financial panic. If it collapses, the ecology on the chain will still be destroyed.

The stimulating factor of acceleration is not only because the exchange public chain lowers the threshold for using DeFi, but also because of the blessing of exchange resources, traffic, and brand influence. The BSC smart chain has invested hundreds of millions to mine developers and application resources; the traffic of the exchange itself is also shifting from the centralized market to on-chain transactions.

Binance has helped users on BSC to raise funds for the project many times. Starting from the original intention of the centralized exchange to protect user assets, such an approach is understandable, but it also virtually deepens the outside world's perception that the BSC smart chain belongs to the exchange.

Theoretically speaking, the public chain must at least have the basic characteristics of the Bitcoin network. It

should be supported by decentralized and sufficiently dispersed nodes, relying on the reward mechanism to ensure the safe and smooth operation of the network, and it is open to everyone without censorship. User identity allows users to freely enter and exit this public chain.

1.3 Reasons Why BNBF is Concerned

The BSC chain is full of chaos, Pixiu, withdrawing from the pool and running away, the transaction mechanism is opaque, etc., seriously affecting the healthy development of the entire industry. The rise of the BSC chain industry requires a large platform to escort, and BNBF is a platform dedicated to traffic support for BSC chain projects. It has received support from the BNB Industry Support Fund. BNBF will create a super traffic portal to escort small and medium-sized entrepreneurial projects. The BNBF platform has thousands of top KOLs, and a super traffic pool has been formed.

BNBF is a distributed intelligent Launchpad platform. It is the first diversified and comprehensive service platform dedicated to traffic support for BSC chain projects. It is also the world's first platform dedicated to commercial applications in the encrypted digital asset industry. The network conducts global collaboration, and provides global users with an accurate decentralized intelligent platform for one-stop digital asset issuance, trading and management, decentralized pre-sale Swap, NFT market and other related encrypted digital asset services.

We hope to use BNBF to solve the problems of cumbersome digital asset issuance, inconvenient digital asset transactions, easy loss of digital assets, lack of privacy protection for users, and lack of authenticity and consistency between digital assets on the chain and real assets in the process of asset digitization. Centralized user data privacy issues and centralized exchange asset security issues in the transition from 2.0 to Web 3.0. BNBF hopes to eventually connect the projects with traffic requirements of the BSC smart chain together to achieve efficient global traffic coordination; BNBF hopes to use the underlying technology of the BSC smart chain in the future to accurately provide every user in the world with the various types of data they need. Encrypted digital asset services. BNBF is a distributed intelligent Launchpad platform, born to create a new generation of intelligent cryptocurrency ecosystem.



2. BNBF Technical Logic Model

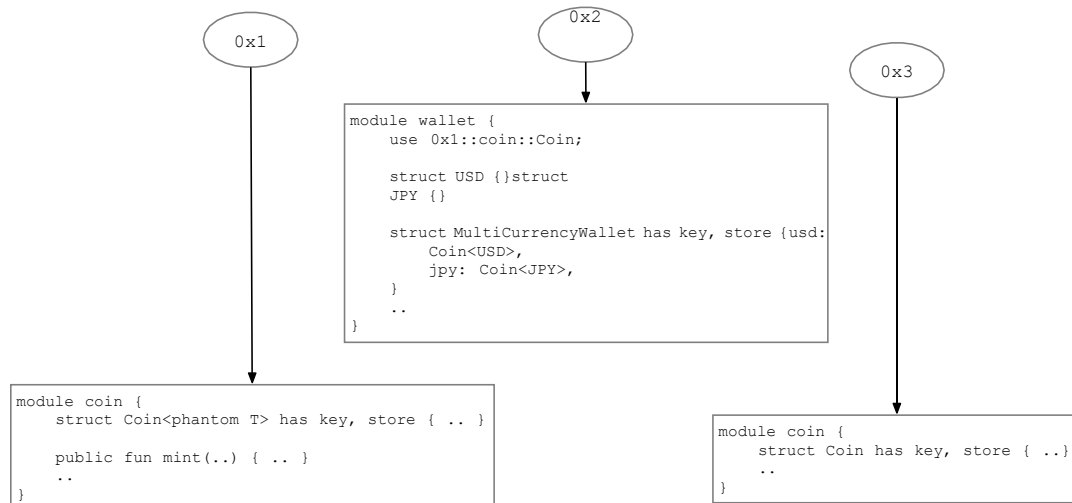
The ledger status of the BNB blockchain represents the status of all accounts on the chain. The ledger status uses an unsigned 64-bit integer for version division, corresponding to the number of transactions executed by the current system. Anyone can submit transactions to the BSC smart chain to modify the state of the ledger. After the transaction is executed, a transaction output is generated. The output of a transaction consists of zero or more operations to manipulate the ledger state (called write sets), a resulting set of events, the gas consumed, and the state of the executed transaction.

2.1 Trade

A signed transaction contains the following information:

- Transaction Authenticator: The sender uses a transaction authenticator that includes one or more digital signatures to authenticate the transaction.
- Whether Yi has been verified.
- Sender Address: The account address of the sender.
- Payload: Payload either refers to the existing interface function on the chain, or refers to the code execution function (called a script). Additionally, a set of input parameters is encoded in a byte array. For peer-to-peer transactions, the input parameters include the recipient's information and the transfer amount.
- Gas price (in the specified currency/Gas unit): This is the per unit that the sender is willing to pay to execute the transaction
- The amount of Gas Gas fee refers to the payment of computing, networking and storage fees. Gas is an abstract unit of calculation with no inherent real value.
- Maximum Gas Units (Maximum gasamount): Maximum Gas is the maximum number of Gas units allowed to be consumed before the transaction is aborted. There must be at least the balance of Gas unit price multiplied by the maximum number of Gas units in the account, otherwise the transaction will be terminated during the verification process.
- Serial Number: The serial number of the transaction. The sequence number in the transaction must match the sequence number stored in the sender's account when the transaction was executed. After the transaction is successfully executed, the account sequence number is incremented to prevent replay attacks.
- Expiration time: a timestamp, after which the transaction will no longer be valid.
- Blockchain ID: To identify the validity of transactions in the blockchain, providing further protection for users against signing errors.

At each version i , state changes are represented by tuples (T_i, O_i, S_i) containing the transaction, transaction output, and resulting ledger state, respectively. Given a deterministic function Apply , executing transaction T_{i-1} using ledger state S_i produces transaction output O_i and new ledger state S_i . That is, $\text{apply}(S_{i-1}, T_i) \rightarrow \langle O_i, S_i \rangle$.



2.2 Account

Each account is identified by a unique 256-bit value called the account address. When the `create_account(addr)` function is called from a transaction sent from an existing account, a new account is created in the ledger state. This usually happens when a transaction tries to send to an account address that has not been created. For convenience, BNBF also supports a transfer (`from`, `to`, `amount`) function, which implicitly creates an account if the account does not exist before the transfer.

To create a new account, a user first generates a signing key pair: (`vk`, `sk`). Next, a new account address for a given signature scheme is derived using the cryptographic hash H of the public verification key `vk` concatenated with the signature scheme identifier (`ssid`): where $\text{addr} = H(\text{vk}, \text{ssid})$.

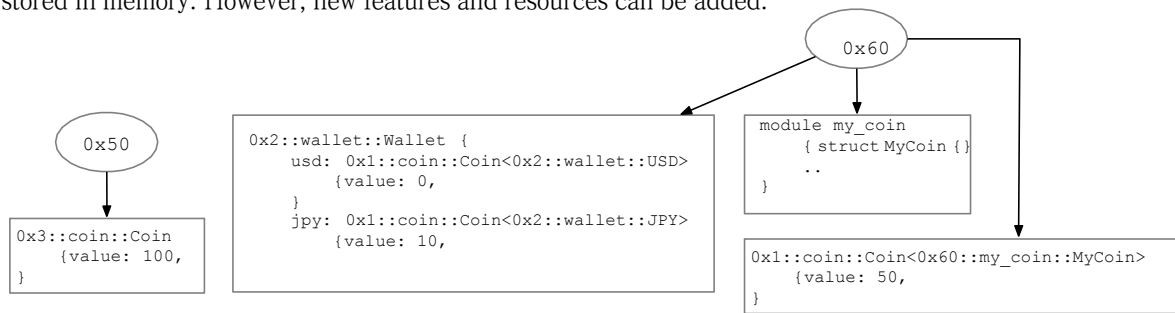
After creating a new account, the user can use the private signing key `sk` to sign transactions to be sent from the address account. Users can also rotate `sk`s to proactively change `sk`s or in response to possible compromises. This does not change the account address, since the account address is derived from the public verification key only once during creation.

BNBF does not link accounts to real-world identities. Users can create multiple accounts by generating multiple key pairs. There is no inherent link between accounts controlled by the same user. However, one user can still manage multiple accounts in one wallet for easy asset management. This flexibility provides users with pseudonyms, while we experiment with privacy-preserving primitives in future releases. Multiple accounts owned by a single user or group of users also provide avenues for increased execution concurrency.

2.3 Code Module

A module must be uniquely named within an account, i.e. each account can declare at most one module with any given name. For example, the account at address 0x1 in Figure 2 cannot claim another module named coin. On the other hand, an account at address 0x3 could declare a module called coin, which would have an identifier of 0x3::coin. Note that 0x1::coin::coin and 0x3::coin::coin are different types and cannot be used interchangeably nor share common module code. In contrast, 0x1::coin::coin<0x2::wallet::USD> and 0x1::coin::coin<0x2::wallet::JPY> are different instances of the same generic type and cannot be used interchangeably, but can share common module code.

Modules are divided into packages located at the same address. The owner of this address publishes the package as a whole on-chain, including bytecode and package metadata. Package metadata determines whether a package is upgradeable or immutable. For upgradeable packages, a compatibility check is performed before allowing the upgrade: existing entry point functions do not have to be changed, nor can any resources be stored in memory. However, new features and resources can be added.



2.4 Resource

Similar to modules, account addresses can also have data values associated with them. Within each account address, values are typed by their type, with at most one value of each type belonging to the account. Address 0x50 holds a value, 0x3::coin::coin is a fully qualified type. 0x3 is the address of the storage token module, coin is the name of the module, and coin is the name of the data type. Values of generic types are also allowed, treating different instantiations as different types.

This is critical for scalability, allowing different instantiations to share the same function code. Rules for changing, deleting, and publishing values are encoded in the modules that define the data types. The code's security and validation rules prevent other code or entities from directly creating, modifying, or deleting instances of data types defined in other modules.

Having at most one top-level value of each type under an address might sound restrictive at first. However, this is not a problem in practice, since programmers can define wrapper types with other data as inner fields, thus avoiding any restrictions. The Wallet structure is an example of how to use wrapper types.

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It should also be noted that not all data types can be stored on-chain. For a data instance to conform to a top-level value, the data type must have a key capability. Similarly, nested values require storage capacity. Data types with these two capabilities are also called resources.



3. Safe user experience

To engage billions of internet users, web3 user experiences must be secure and accessible. In the following sections, we describe several innovations provided by BNBF to achieve this goal.

3.1 Transaction Feasibility Protection

Signing a transaction means that the signer authorizes the transaction to be submitted and executed by the blockchain. From time to time, users may sign transactions unintentionally or without fully considering all the ways their transactions could be manipulated. To reduce this risk, the BNBF platform limits the viability of each transaction and protects signers from infinite validity. The BNBF platform currently employs three different protections — the sender's sequence number, transaction expiration time, and a designated chain identifier.

- The transaction sequence number can only be submitted once per sender's account. Thus, the sender can observe that if the current account sequence number is that of transaction t , then t has either committed or never committed (because the sequence number used by t is already used by another transaction).
- Blockchain time advances with high precision and high frequency (typically sub-second). If blockchain time exceeds the expiry time of transaction t , then again, t has committed or t will never commit.
- Each transaction has an assigned chain identifier to prevent malicious entities from replaying transactions between different blockchain environments (e.g., via testnet and mainnet).

3.2 Transaction Transparency

Today, wallets have little transparency into the transactions they sign. As a result, users are often easily tricked into signing malicious transactions that steal funds with devastating consequences. This is true even for blockchains that need to enumerate all on-chain data accessed by each transaction. As a result, there are currently few user protections in place, leaving users vulnerable to a wide variety of attacks.

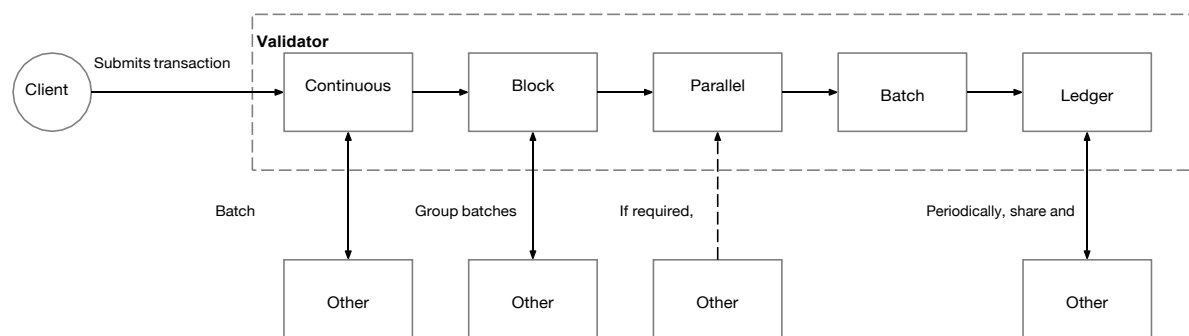
To solve this problem, the BNBF platform employs a transaction pre-execution service: a preventive measure that describes to users (in human-readable form) the outcome of their transactions before signing. Combining this with known prior attacks and history of malicious smart contracts will help reduce fraud. In addition, the BNBF platform also allows wallets to constrain transactions during

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execution. Violation of these restrictions will result in aborted transactions to further protect users from malicious applications or social engineering attacks.

3.3 Light Client Protocol

Relying solely on the API provider's TLS/SSL certificate to establish trust between the blockchain client and server does not adequately protect the client. Even in the presence of valid certificates, wallets and clients cannot guarantee the authenticity and integrity of the data provided.



Transaction transaction processing life cycle. All stages are completely independent and can be parallelized independently.

As a result, API providers may return incorrect or malicious blockchain data, deceive third parties and perform double overhead attacks.

In order to prevent this, the BNBF platform adopts state proof and light client verification protocols, which can be used by wallets and clients to verify the validity of data provided by untrusted third-party servers. Furthermore, with timestamp-based proof of state, light clients can always ensure account state is strictly bounded in timeliness (e.g., within seconds) and only need to track changes in network configuration (epoch changes) or use the current trusted Any checkpoints (waypoints) are kept up to date. By combining high-frequency timestamp state proofs, the BNBF platform provides customers with higher security guarantees.

3.4 Batch Transaction Processing

In order to maximize throughput, increase concurrency, and reduce engineering complexity, the transaction processing of the BNBF platform is divided into different stages. Each stage is completely independent and can be parallelized independently, similar to modern superscalar processor architectures. This not only provides significant performance benefits, but also enables the BNBF platform to offer new validator-client interaction patterns. E.g:

- Clients can be notified when a particular transaction is included in a batch of persistent

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transactions. Durable transactions are likely to commit immediately.

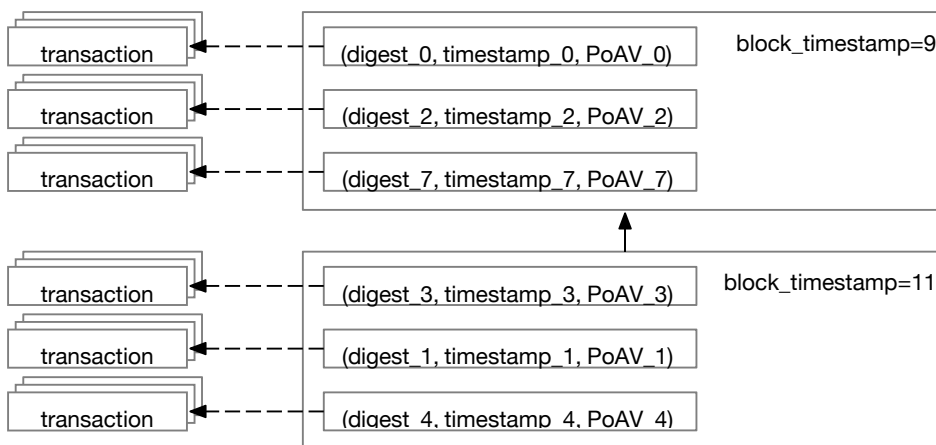
- Durable transactions can notify clients. Therefore, to reduce the delay in determining the output of an executed transaction, a client may choose to execute the transaction locally instead of waiting for the validator to complete the execution remotely.
- Clients can choose to wait for validators to execute authentication transactions and perform state synchronization on the authentication results.

The BNBF platform modular design facilitates development velocity and supports faster release cycles as changes can be targeted to individual modules rather than a single monolithic architecture. Similarly, the modular design also provides a structured path to scale validators beyond a single machine, providing access to additional compute, network, and storage resources.

3.5 Batch Processing and Transaction Broadcasting

Batching is an important efficiency optimization that is part of every stage of operation of the BNBF platform. During transaction propagation, each validator groups transactions into batches, and during consensus the batches are merged into blocks. The execution, storage, and ledger verification stages also work in batches to provide opportunities for reordering, reducing operations (such as double computation or signature verification), and parallel execution.

Grouping transactions into batches may cause a small amount of delay, for example, waiting 200 milliseconds to accumulate a batch of transactions before performing a distribution. Batching, however, is easily configurable in terms of maximum latency and maximum batch size, enabling decentralized networks to automatically optimize across latency and efficiency. Batching also allows for an efficient fee market to prioritize transactions and avoid over-transaction, denial of service (DoS) attacks.

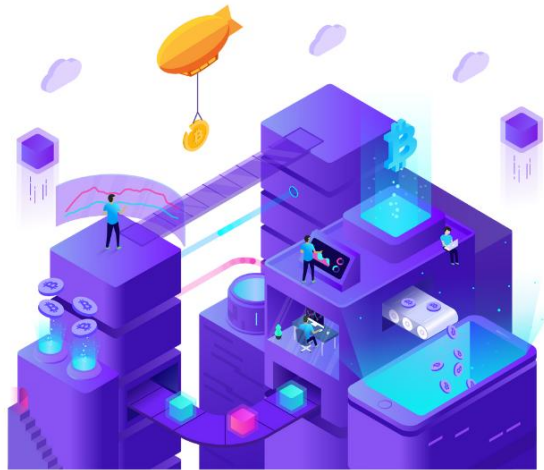


Block metadata ordering is independent of transaction propagation

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According to the main insights of Narwhal & Tusk, transaction propagation in the BNBF platform is linked to consensus. Validators continuously stream batches of transactions to each other while utilizing all available network resources. Each batch distributed by the verifier will be saved and the signature on the batch digest will be sent back. Any stake-weighted signature on the batch digest will constitute a Proof of Availability (PoAv) as required by consensus. Such a proof guarantees that at least $N+1$ stake-weighted honest validators stored the batch, so all honest validators are able to retrieve the batch before execution.

Infinitely persistent transaction batches can cause validators to run out of storage and crash, opening a DoS attack vector. To prevent this, each batch of transactions has an associated timestamp. Timestamps on batches allow for efficient garbage collection at each validator. Additionally, a separate per-validator quota mechanism is designed to protect validators from running out of space even in the most extreme cases (such as under potential Byzantine attacks). Batches also have size limits, which are validated before agreeing to remain in stable storage. Finally, several optimizations for deduplication and cached transactions reduce storage costs and ensure performance integration with parallel execution engines.



4. BNBF Tens of Millions of Traffic Distribution Platform

BNBF is a platform dedicated to traffic support for the BSC CHAIN project, and has received support from the BNB Industry Support Fund. BNBF will create a super traffic portal to escort small and medium-sized entrepreneurial projects. It is also a distributed intelligent Launchpad platform. It is the first diversified and comprehensive service platform that provides traffic platforms for projects on BSC Intelligence. It is also the world's first platform that focuses on commercial applications in the encrypted digital asset industry. Carry out global collaboration and accurately provide global users with a decentralized intelligent platform for one-stop digital asset issuance, public pre-sale, commission sharing, traffic support and other related encrypted digital asset services.



The BNBF platform is designed to help users launch their own tokens and create their own initial token sales. The vision of the platform is to create the strongest traffic entrance and exit, and become a BSC smart chain unicorn platform. Users can use BNBF to pay any fee on the platform. Every quarter, the platform uses 10% of the profits to buy back BNBF and destroy it. The BNBF platform supports the launch of hundreds of types of projects, covering Web3.0, DeFi, games, NFT, etc., to help users quickly complete the IDO and listing of projects.

4.1 Advantages of BNBF Platform

BNBF was established to provide the world's largest integrated traffic platform for the rise of the BSC chain industry. At the same time, it will make the BSC chain more secure, reliable and healthy, so that every investor's assets can be guaranteed, and it will also affect the future development trend of the entire industry. As the world's largest traffic platform on the BSC chain, BNBF has a special section and a unique mechanism. Users can use the corresponding functions on the BNBF platform.

At present, the BNBF platform is divided into four major sections: free coin issuance, public pre-sale, commission sharing, and publicity and promotion projects. In the coin issuance system, users can hold BNBF to enter the website to issue coins for free. All tokens from the BNBF platform are 100% safe and transparent, and users can invest and purchase with confidence. Whenever the currency is issued on the BNBF website platform with a 1% BNBF automatic destruction mechanism for buying and selling, the BNBF platform will vigorously promote the project. The function of the public pre-sale system of the BNBF platform is to provide a financing platform for entrepreneurs. Financing projects can be created on the BNBF platform for the first round of financing. The second is the sharing commission system. Project initiators can set a certain amount of token rewards, and sharers can get the same rewards by uploading screenshots. Finally, there is the publicity and promotion system, where users can consume a certain amount of BNBF for an afternoon to expose and publicize the advertising space. At the same time, 10,000 members of the BNBF platform KOL group will be promoted collectively.

The blockchain industry needs to be purified to prevent the proliferation of fraudulent projects. BNBF has a number of advantages and highlights, and jointly builds the BSC chain super traffic pool, allowing project initiators to realize traffic conversion after joining the BNBF system, improving the credibility and popularity of the project, and allowing users to invest in BNBF-certified projects with greater confidence. income.

BNBF has the following three major advantages:

- We strictly control the currency issuance process. Platform security analysts and programmers will directly help entrepreneurs write and deploy for free, and the management authority will be handed over to the project issuer to ensure that there are no backdoors, no wild animals, no adjustable slippage, and no additional issuance.
- Projects certified by the platform can obtain all-round support from the platform. If the pool is more than 100,000 U and locked for more than 1 year, they can get one AVE hot search support for free.
- Third, thousands of KOL top traffic will support projects on the top community platform, so that project entrepreneurs with ideas, technology but no traffic can quickly obtain tens of millions of

traffic.

4.2 BNBF Launchpad

On the BNBF platform, anyone can quickly and easily start a token plan without developer skills, and can customize token economics, and all information is fully published on the chain, completely transparent. The BNBF platform Yijian issued coins, which is absolutely safe and reliable. The code was built by dozens of engineers. It passed the Certik security audit. Yijian issued coins at the same time as open source, discarding permissions, and preventing the project party from maliciously adjusting the points to cause investors. loss

In the ETH public chain, any user can issue assets through smart contracts, but the credit and value of the assets themselves are difficult to confirm and guarantee. The BNBF platform controls risks by controlling the asset issuance authority, introducing the endorsement mechanism, verifying the contract, tracing the source of assets, and tracking the flow of funds, etc., so as to determine the authenticity and reliability of the assets themselves, and establish Credible asset system.

Trusted identity: Trusted identity is the cornerstone of trusted assets. On the BNBF platform, only trusted users with trusted identities can issue digital assets. At the same time, we have introduced an endorsement mechanism. Only users who have endorsed by relevant investment institutions on the chain can initiate crowdfunding on the financial chain, so as to reduce the risks and losses of ordinary users and investors and enhance their credibility. Institutional users must pass multi-signature verification before issuing.

Trace the source of assets and establish a three-dimensional risk control system for the whole process: It is impossible for any asset to be generated out of thin air. The BNBF platform traces the ultimate source of assets through blockchain technology and directly tracks the status of the underlying assets. Through the identity authentication of the BNBF platform and the multi-signature technology, all operations can be verified and traced on the district financial chain. The BNBF platform will establish a three-dimensional risk management framework for the whole process based on the blockchain technology, and the encrypted numbers on the chain Assets are identified, assessed and monitored. Credit rating refers to strengthening asset access management by means of digital file credit rating and institutional endorsement mechanism. Information disclosure refers to providing investors with targeted risk warnings by covering the entire process of information disclosure before, during and after investment. Risk monitoring aims to build an early warning system with financial and non-financial as the core, to conduct dynamic detection of all assets, and to give early warning in case of abnormality.

Tracking of capital flow: We can easily track the final capital flow and usage on the BNBF platform, so as to prevent capital misappropriation and prevent risks. The BNBF platform writes the risk control program into the smart contract, as long as users who meet its risk control standards can

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directly get the support of global users, and realize the Token release listing service that is simply written.

4.3 BNBF Pre-sale

People with dreams all over the world can realize one-click crowdfunding pre-sale through the BNBF platform. Users can customize the issuance of digital assets, specify names and allocate Tokens, and use visual smart contracts to set the whitelist of accounts holding Tokens, exchange types, ratios, deadlines, lock-up plans, and related transaction and transfer fees.

The BNBF platform supports participating in the pre-sale of tokens of various projects. Just like Coinlist, the pre-sale participation of the BNBF platform does not require KYC thresholds, but there will be strict background reviews for projects, and everyone can participate. All projects are user-independent. It was initiated, but the platform will conduct very strict audits, and require audit codes, funding backgrounds, project development plans, audit reports, etc. for new projects participating in IDO. Only after passing the platform review can the IDO be issued and renewed. Through multi-dimensional review, the project risk can be reduced to the greatest extent.

The first BNBF platform review standard is the Token model, the Token issuance model, whether there is private placement, pre-sale price, distribution ratio, whether there are mouse warehouses and giant whale positions; the second standard is TVL changes, TVL data is mainly in the token official Monitor after opening the transaction; the third is project popularity, including media popularity, whether there is project information included in mainstream media, such as Feixiaohao, or other second-tier media, KOL, whether there are small and medium-sized V tweets on domestic and foreign social media, Community popularity, official Twitter: number of fans, number of posts, number of likes and reposts, and growth rate of fans, Telegram: official telegram group number, online number, group information, group member activity, reply content and other dimensions;

Items on the pre-sale list are divided into the following three states:

- 1) pending start: the transaction is being packaged, that is, it has not started
- 2) presale live: the presale is in progress
- 3) sale success: the pre-sale is successful and completed
- 4) sale failed: the pre-sale failed and ended

The BNBF platform has a strict audit mechanism for projects that initiate crowdfunding. The audit content includes Token information (contract address, LOGO, etc.), Token economic model (pre-sale, lock-up, distribution of circulation), project official website, official Twitter, official Telegram, LP locked positions.

- 1) Prepare project information

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Project official website, official media and community information

2) Token creation

Deploy contracts on other tool platforms on the BNBF platform, create tokens, and deploy contracts by yourself through remix.

3) Set pre-sale rules

Set the share and exchange rate according to the project plan, as well as the minimum and maximum value of the target fundraising

4) Add LP publicity

After the token is created, add the contract address of LP to the BNBF platform. This step has a strong credibility for enhancing project endorsement.

The concept of DeFi breaks the shackles of traditional finance and gives people more freedom. The convenient threshold makes the BNBF platform a convenient station for "grassroots" projects. The BNBF platform will also uphold the original intention to help more high-quality projects speak out and prevent bad coins from appearing. The phenomenon of expelling good money maintains the healthy development of the cryptocurrency industry market.

4.4 BNBF Share Commission System

BProject initiators on the BNBF platform can set a certain amount of token rewards, and sharers can get the same rewards by uploading screenshots. For a high-quality project, if you want to have a good market exposure, you have to spend a lot of manpower and material resources to promote it. This is a traditional marketing method, which will not only cost a lot of manpower and material resources, but the effect is not necessarily good. Now the BNBF sharing commission system can make high-quality projects spread in a short time, so that projects can gain more in mobile fission commercial value.

The BNBF sharing commission system mainly has the following advantages:

- Low threshold and low requirements: Let entrepreneurial projects easily join the promotion chain, grow at a geometric speed, and let the community flow fission and realize.
- The BNBF sharing commission system has been completely subverted by socialization.
- Sharing commission method: solves the problem of a series of automated marketing and promotion of projects listed, helps projects reduce publicity costs, and increases market share. For promoters, they can share commissions through BNBF to obtain benefits, and truly achieve a win-win situation.
- The commission model has a wide range of applications: In the BNBF shared commission system, the commission model can be applied to all projects, and is not affected and restricted

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by the attribute division of the project, nor is it restricted by any external factors.

- Unlimited splitting can be achieved: sharers can be developed without limit, each sharer is both a project promoter and a promoter, and can develop his own subordinates. If the number of subordinates he develops is more, the advantages he can obtain are also more. The more you get, the more commissions you can bring to yourself, and the more traffic you can bring to your projects.

4.5 BNBF Publicity Promotion System

When promoting a project, one must hope to promote the project and activities as widely as possible. At this time, the BNBF publicity and promotion system will come in handy. However, if the project party only designs a promotion plan by itself and then spreads it, or if business personnel and other staff conduct targeted promotion and exposure, the efficiency may not be high and the audience will be relatively small. In addition, even if you look for media channels to cooperate with promotion activities, there is no way to monitor the promotion effect well, so it is impossible to judge whether the promotion cost is worth it, and which channel to focus on next time.

In response to the troubles of the above publicity and promotion projects and activities, the BNBF publicity and promotion system has tailored a project activity marketing module. The BNBF platform has a powerful publicity and promotion system, and users can consume a certain amount of BNBF for an afternoon to expose and publicize advertising positions. At the same time, 10,000 members of the BNBF platform KOL group will be promoted collectively. Through the marketing team composed of 10,000 KOL members on the BNBF platform, the project party can not only use the 10,000 KOLs provided by the BNBF platform to carry out all-round publicity, and then forward and disseminate the project activities. This will not only save the publicity cost for the project party, but also Events held for the project increased exposure. In addition, the project party can also cooperate with other media, establish corresponding promotion channels in the BNBF platform system, and provide them with exclusive posters for dissemination, use the power of cooperative media to create momentum and dissemination for the event, and can carry out promotion channels at any time data monitoring.

The highlight of the BNBF publicity and promotion system is that the platform has 10,000 KOL team members. With the continuous development of the platform, there will be more and more KOL team members. A multi-level and wide-ranging publicity and promotion plan will be provided for the project. Covering areas include WeChat community, Telegram community, Telegram channel, Twitter, ins, Youtube and other social media platforms. Create a one-stop publicity and marketing service for the project with one-click complete site-wide publicity and drainage.

5. BNBF Token Economics

The only native asset of the BNBF platform: BNB Industry Recovery Fund, abbreviated as: BNBF. The total circulation is 21 million (never additional), which can be obtained through private placement, pre-sale, provision of liquidity, participation in community building and participation in platform ecological investment output.

The operation of each application on the BNBF platform needs to consume a certain amount of BNBF. With the increase of applications, more and more gold BNBF will be consumed. The BNBF on the market will gradually decrease and become scarce with the increase of applications. , thereby increasing the value. Therefore, the price of BNBF will not be anchored to any legal currency or cryptocurrency. At the same time, when the cost needs to be paid in the process of using the BNBF platform application, it will be paid in the form of BNBF.



The BNBF platform relies on BNBF to use various design functions of the BNBF platform, including but not limited to on-chain transfers, encrypted digital asset creation, transaction execution, etc. In addition, for BNBF's self-internal governance mechanism (electing community council members) and BNBF's own major technological developments, certain votes must also be made by holding BNBF, which is BNBF's governance token.

5.1 BNBF Distribution Plan

The BNBF platform attaches great importance to the development of the platform's ecological applications, so most of the BNBF tokens will be allocated to BNBF's ecological output to stimulate BNBF's ecological consensus, reward BNBF's ecological

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evangelists, and complete the update iteration of BNBF products and consensus building. And share the platform dividends with users and evangelists.

The total circulation of BNBF is 21 million pieces

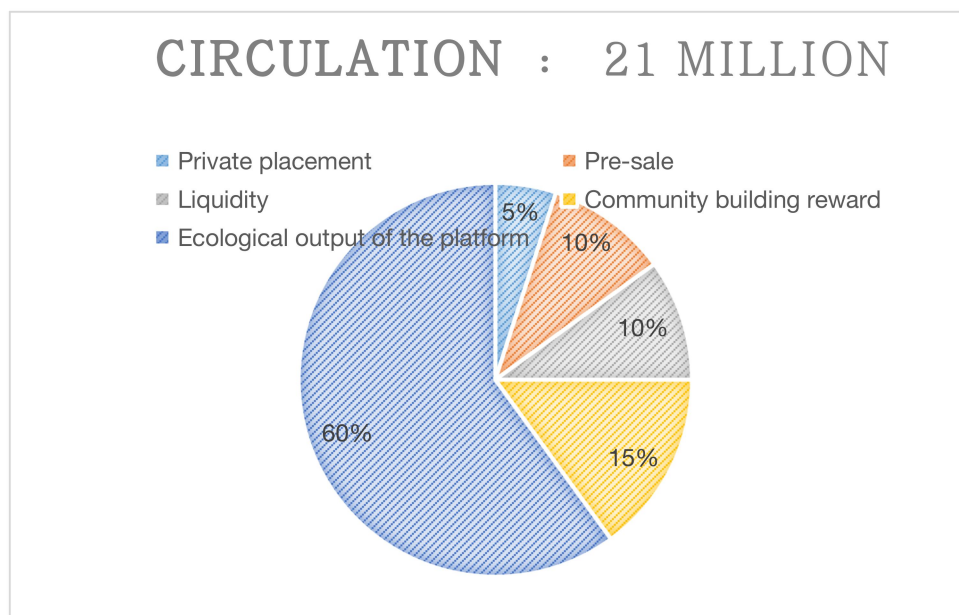
Private placement 5%; 1.05 million pieces

Pre-sale 10%, 2.1 million pieces

Liquidity 10%, 2.1 million pieces

Community building reward 15%, 3.15 million pieces

60% of the ecological output of the platform, 12.6 million pieces



5.2 BNBF Rising Logic

BNBF has its own value-increasing business mechanism model, with a small circulation and never additional issuance, an unlimited repurchase and destruction mechanism, and supports the industry's leading effect. 1% of transaction slippage buy/sell is used to repurchase and destroy BNBF. This process is sustainable. At the same time, the first batch of 1,000 small and medium-sized projects incubated by BNBF will bring thousands of repurchase and destruction per minute to the BNBF platform .

BNBF rising logic:

- The circulation of BNBF is only 21 million pieces, the initial price is 0.0095U, and the upside potential is unlimited
- Every time a new project is supported, a large amount of funds will be brought in for continuous

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repurchase and destruction, infinite deflation

- 50% of all platform revenue will be continuously repurchased, destroyed and publicized, with unlimited deflation
- Supporting the industry leader platform, the leading effect will surely bring ten thousand times increase
- Trading slippage buy/sell, 1% will continue to be used for continuous repurchase and destruction

The vision of the BNBF platform is to create the first flow entrance and exit of the BSC chain, and it plans to support 1,000 small and medium-sized project parties to obtain the first batch of IDO financing and flow support within one year. At the same time, BNBF is a platform dedicated to traffic support for BSC chain projects. It will create a super traffic portal to escort small and medium-sized entrepreneurial projects. In the future, the functions of BNBF will be more perfect, and the traffic will become more and more powerful. It is bound to become a must-have blockchain software application for every investor.



6. Development Planning

BNBF will develop three stages of atmosphere, namely BNBF 1.0, BNBF 2.0 and BNBF 3.0. Each stage is progressive and interlocking, making the ecological construction present a spiral upward. The continuous introduction of new concepts and functions will have a profound impact on the BNBF business model.

6.1 BNBF KOL Development Planning

BNBF adheres to the concept of DAO communication and governance. During the period of BNBF 1.0, the thousand-person KOL plan will be launched, so that thousands of KOLs and hundreds of communities are no longer just slogans. As long as you become a platform KOL or promote a community, you can get BNBF rewards for lock-up and release. By promoting the platform and platform projects, you can accelerate the unlocking of BNBF and get the recommendation rewards for each project. After completing the basic KOL dissemination experiment, all traffic usage rights and development will be returned to the BNBF platform community. It is mainly used for the following ecological development:

1. The emergence of Web3.0 has its unique historical background, and the underlying logic of its existence and development philosophy is very clear, but it is rarely elaborated in the mainstream academic circles. Every member of BNBF should explore and record its final possible form of expression.
2. GameFi is product-oriented. DAO organizations should launch GameFi applications with corresponding functions at an appropriate time. The specific form of applications should be discussed and designed by the community.
3. BNBF has captured the value of communication, and the value of identity needs to be reflected through a new design. In the current situation, DID is the best solution.
4. After the popularization of digital identities, the construction and creation of metaverse should be the core goal. All abstract and figurative attempts are adding new boundaries to the industry. Connecting physical assets and virtual assets will be a new proposition in the next decade. The real world lacks imagination, and the virtual world has no right to speak. This is our opportunity.
5. The brain-computer interface will be the ultimate solution of the metaverse, and it is also the top research direction of multidisciplinary collaboration. Inward exploration may be able to see the light of day.

6.2 BNBF Planning 2.0

After the BNBF 1.0 infrastructure is built, the ecological benefits obtained by 1.0 will lay the most solid foundation for version 2.0. In the BNBF 2.0 plan, in-depth functional research and development will be carried out on the basis of 1.0's Web 3.0 and decentralized transactions, and functional upgrades will be implemented. In the 2.0 plan, the development of decentralized Swap exchange research and development will be the main task, to realize free trading in the NFT market, complete the landing of NBNF2.0 ecological applications, and then gradually realize the landing of Web3.0 related functions.

The purpose of developing the Launchpad ecology is to build the BNBF platform into the world's only leading traffic support platform based on the BSC smart chain IRI recovery plan. At the same time, the 10,000-person KOL plan was launched to build an integrated incubation and publicity lineup on social platforms such as WeChat community, Telegram community, Telegram channel, Twitter, ins, Facebook and Youtube.

BNBF will create blockchain killer applications. To develop the BSC smart chain traffic support platform, BNBF will adopt a safer random number generation method based on a safer operation method to ensure the security and fairness of players' assets. In addition to focusing on improving the quality of blockchain products, BNBF also attaches great importance to building customer stickiness. Based on blockchain technology, the profit sharing model will be implemented in the form of smart contracts. In traditional Web2.0 platforms, users and platforms are opposites. In the "profit sharing" model proposed by BNBF, the platform and users are tied together: users can get their hearts by sharing, and the platform realizes profits through handling fees, etc., and then rewards users in the form of rewards and dividends, unlimited repurchase and destruction of BNBF Drive the value of BNBF held by users to increase, thus forming a virtuous profit cycle, thus conquering the trillion-level blockchain traffic ecological market.

6.3 BNBF Planning 3.0

After the BNBF ecology develops to a certain scale, the funds will be invested in charity. Revolutionizing global giving by increasing transparency and addressing complex issues in the social sector such as corruption, lack of trust in nonprofits, high global transfer fees, process inefficiencies and lack of accountability for donor spending. The vision of the BNBF Charitable Foundation is to build a world where blockchain technology becomes a key tool for businesses, non-profit organizations, individuals and governments to use in philanthropy and drive social change; to end all forms of inequality, to achieve financial inclusion and to advance sustainable development.

The goal of the BNBF Charity Foundation is to adhere to the people-oriented concept, adhere to the

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sustainable development goals, and give priority to helping solve the world's education problems, world medical problems, the gap between the rich and the poor and global warming. BNBF will establish a sound charitable donation system by providing charitable funds for those in need. By seeking more like-minded partners and institutions, connect global solutions with local problems, and solve problems directly point-to-point. By solving global education problems, we will provide relevant talents and elites for the encryption industry, and promote the continuous development of Web 3.0. Collaborate with the world's top scientific research institutions and laboratories to attract outstanding talents through innovation centers, curriculum development, research grants and scholarships.

BNBF will set up a special charitable wallet, which is designed for donors who do not allocate funds to designated donation projects. The blockchain-based system will allow people to participate in the transaction and flow of charitable funds in a transparent manner. BNBF will accept social surveys to ensure that every charitable donation has the greatest effect.



7. Legal statement

7.1 Risk warning

I. At present, the attitudes and policies of major countries in the world towards blockchain and encrypted token platforms are not yet clear, and there is a possibility of loss of holders due to policy reasons;

II. At present, there are many projects in the field of blockchain technology, the competition is fierce, and there is very strong market competition. The Foundation will make every effort to ensure the continued development of the BNBF project;

III. The BNBF Foundation will spare no effort to achieve the goals set out in the white paper. However, due to various uncertainties, we will reserve the right to adjust the content described in the white paper. We are not obliged to actively notify all changes in the content of the white paper, and participants are requested to keep abreast of them through relevant channels;

IV. The BNBF Foundation cannot fully ensure the smooth implementation of all technologies. At the same time, all technical projects may be attacked by hackers or code loopholes may cause user losses;

V. Countries around the world have different laws and regulations on cryptocurrencies and blockchains. Participants need to fully consider the laws and regulations of their countries and regions to ensure the legality of their actions. The BNBF Foundation does not have any incentives for participants to violate any country, , the laws and regulations of the region.

7.2 Disclaimer

I. Copyright Statement: The copyright of this document belongs to the BNBF Foundation, all rights reserved;

II. Disclaimer: The development of science and technology is changing with each passing day. In order to better promote the development of the BNBF project, the foundation will continue to improve the existing technical aspects and organizational structure.