

Star Tower Agreement White Paper

Owned by the Star Tower team or company

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I. Introduction

Preface

In recent years, the global proliferation and coverage of smart devices have continued to increase, especially with the widespread adoption of 5G technology, further enhancing the connectivity of smart devices. As indispensable tools in people's daily lives, smart devices have become the core terminals of the era of the Internet of Everything. This rapid development of the smart device industry has driven digital transformation, promoted the development of augmented reality (AR) and virtual reality (VR), advanced distributed computing, and increased the connectivity of IoT devices.

Against this backdrop, Star Tower, based on a novel blockchain architecture for smart mobile devices (such as smartphones), has emerged. The vision of the Star Tower project is to transform the operating environment of public chains from the original high-energy-consuming centralized servers or a few nodes to public chain operation on low-energy-consuming smart devices or multiple nodes. At the same time, Star Tower is committed to enhancing the AI self-checking and self-processing capabilities of contracts to address some of the challenges and limitations in traditional public chain environments, including high latency, high energy consumption, poor scalability, smart contract vulnerabilities, low transaction throughput, and node centralization.

Through this technology, Star Tower aims to achieve cross-asset interstitial currency settlement, solve data processing and transmission issues for public chain networks, and build a fully decentralized, secure, and trustworthy intelligent public chain network. This network can facilitate distributed collaboration, resource sharing, and transaction processing among smart devices, providing new possibilities for the next stage of development of the Internet.

1. Project Overview

Our project aims to utilize Star Tower blockchain node software running on smartphones and smart devices to convert surplus computing, storage, network, power, memory, and other resources of smart devices into supply for the operation of the Star Tower blockchain. By implementing this method, we reduce reliance on centralized servers, address the pain points and drawbacks of existing public chains, and thereby construct a fully decentralized, secure, and trustworthy intelligent public chain network to facilitate distributed collaboration, resource sharing, and transaction processing among smart devices.

In our application, smart devices can securely interact, share computing resources, storage space, and data processing capabilities. These resources will be fully supplied to the Star Tower blockchain, thereby reducing energy waste. By using smart devices as the carriers of the public chain, we address some issues in traditional public chain environments. Traditional public chain networks typically rely on a few highly energy-consuming centralized servers or nodes, leading to a series of problems, including high energy consumption, long network latency, low transaction throughput, smart contract vulnerabilities, etc. Furthermore, due to the high centralization of nodes, the decentralization of the public chain is threatened and easily becomes a target for attacks. Firstly, by running the Star Tower blockchain carrier on N smart devices as N nodes, we provide faster data processing and response times, reduce reliance on centralized cloud servers or central nodes, and achieve high node dispersion. Secondly, we enhance data security and privacy protection by adding self-checking, self-processing, and self-upgrading functions for contract vulnerabilities to ensure the security of Star Tower blockchain interactions and data. Finally, through a unique incentive model, we promote resource sharing and collaboration among smart devices, improve resource utilization, and provide more computing power for the Star Tower blockchain.

Our project is not only a technological practice but also a pioneering solution that provides enterprises and individuals with a more efficient, secure, and trustworthy computing environment. We believe that the integration of intelligent computing and blockchain will drive the development of the digital economy and bring positive impacts to society.

2. Project Objectives

- Build an Intelligent Computing Network: Star Tower aims to establish a distributed intelligent computing network by deploying blockchain nodes on smart devices. This will provide faster data processing and response times while reducing reliance on centralized cloud servers.
- Facilitate Resource Sharing: Utilize smart contracts and blockchain technology to enable resource sharing among smart devices, including computing resources, storage space, bandwidth, etc. This will improve resource utilization and provide more computing power for devices.
- Enhance Data Security: Ensure the security of interactions and data sharing among smart devices through the immutability of blockchain and programmability of smart contracts. This will prevent potential data tampering and malicious attacks.
- Drive Applications of Intelligent Computing and Blockchain: Promote the application

of intelligent computing and blockchain through the development and deployment of practical scenarios. This may include areas such as IoT, smart cities, industrial automation, healthcare, etc., providing more efficient, secure, and trustworthy solutions for these fields.

- **Academic Research and Knowledge Contribution:** Actively engage in academic research in related fields to contribute to the development of intelligent computing and blockchain. We will share project experiences and technological achievements to facilitate exchange and collaboration between academia and industry.

Through the fusion of intelligent computing and blockchain in our project, we aim to explore new possibilities in these fields and provide a more efficient, secure, and trustworthy computing environment for enterprises and individuals. We believe that this technological integration will drive the development of the digital economy and bring positive impacts to society.

3. Project Background and Motivation

The background and motivation of this project involve some challenges in current blockchain technology and the widespread adoption of smart mobile devices.

Challenges in Traditional Public Chain Environments:

- **High-Energy Centralized Servers:** Traditional public chain networks typically rely on a few highly energy-consuming centralized servers or nodes. These servers have a huge demand for energy, resulting in unnecessary energy consumption.

- **High Latency, Low Transaction Throughput:** Due to the network's reliance on centralized servers, there are issues of high latency and low transaction throughput, limiting the performance of blockchain networks.

- **Smart Contract Vulnerabilities:** In traditional public chain environments, smart contracts are vulnerable to risks, and traditional public chains cannot self-update or self-repair, leading to potential security issues and data leaks.

- **Challenges of Traditional Public Chain Cross-Chain Interconnection:** Traditional public chains face challenges in asset interaction and cross-chain interoperability, with centralization or Turing incomplete designs resulting in unstable cross-chain interactions that may lead to asset loss and other issues.

Widespread Adoption of Smart Mobile Devices:

- **Proliferation of Smartphones and Other Smart Devices:** Smartphones and other smart devices have become ubiquitous in people's lives, with powerful computing, storage, and networking capabilities.

- **Underutilized Resources:** Many smart devices are idle most of the time and fail to fully utilize their computing, storage, and networking resources.

Expansion of Blockchain Applications:

Blockchain technology, as a decentralized, secure, and trustworthy distributed ledger technology, was initially widely used in the field of cryptocurrencies. However, over time, the application scope of blockchain has gradually expanded to areas such as supply chain management, digital identity verification, cross-border payments, IoT security, etc. The immutability, decentralization, and programmability of smart contracts provided by blockchain offer a more secure, reliable, and transparent environment for Star Tower.

Importance of Data Privacy and Security:

With the continuous growth and flow of data, data privacy and security have become important focuses. Traditional cloud computing models may have security risks such as data leakage, man-in-the-middle attacks, and data tampering. Star Tower integrates various technologies to provide higher levels of data security, ensuring data integrity and confidentiality, and enhancing user trust in data privacy.

Industry Vertical Demand:

Many industry verticals, such as IoT, smart cities, industrial automation, healthcare, cross-border payments, web interconnection, etc., have an urgent need for the integration of computing power and blockchain. These industries require real-time data processing and analysis capabilities to improve efficiency, reduce costs, and ensure the security and trustworthiness of data. The integration provided by Star Tower offers innovative solutions for these industries.

Distributed Evolution of Network Topology:

Traditional centralized computing models suffer from single points of failure and performance bottlenecks. The Star Tower project will promote the distributed evolution of network topology. By deploying blockchain nodes on smart devices, computing and storage tasks can be distributed to smart devices globally, reducing the burden on central servers and improving the overall system's reliability and scalability.

Enhancement of Autonomy and Autonomy:

The combination of Star Tower's unique mechanism model provides smart devices and users with more autonomy and autonomy. Through the intelligent public chain, smart devices can negotiate and interact directly without relying on control by central servers. This decentralized approach increases system flexibility and controllability, allowing devices to make more autonomous decisions and execute tasks.

Economic Benefits and Cost Advantages:

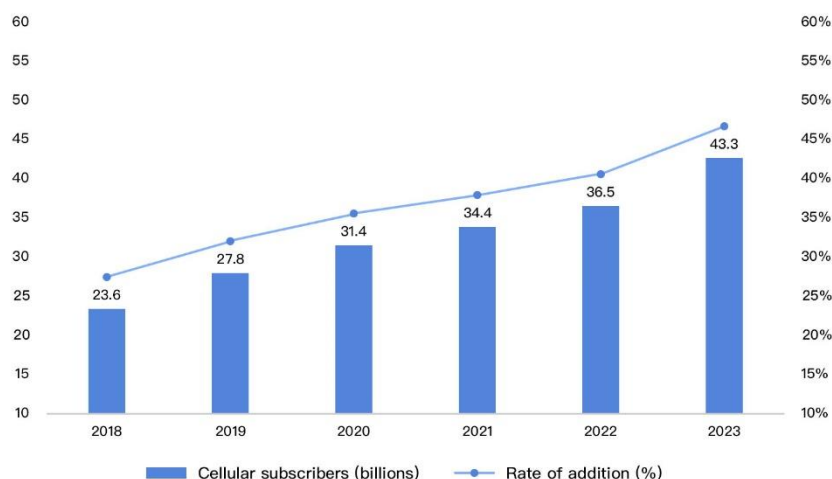
The Star Tower project can bring economic benefits and cost advantages. Idle computing resources and storage space of smart devices can be rewarded through mining, incentives, etc., increasing resource utilization and reducing costs. In addition, the decentralized structure can reduce the maintenance and operational costs of central servers.

Flexibility and Scalability:

The Star Tower project uses its self-developed Resource Interaction Proof (RIP) with flexible configuration options to adapt to distributed systems of different scales and requirements.

In this context, the motivation of the Star Tower project is to propose a novel blockchain architecture based on smart mobile devices, utilizing the idle resources of smartphones and other smart devices to build a decentralized, efficient, secure, and sustainable public chain network. By using smart devices as public chain nodes, the Star Tower project aims to address the challenges of high energy consumption, high latency, poor security, and cross-chain asset interconnection in traditional public chain environments, and enhance resource sharing and collaboration among smart devices, improving the performance and security of blockchain networks.

The average annual growth rate of smartphone users is about 14.2%.



4. Total Workflow

The Star Tower project enables smart devices to act as public chain servers and nodes primarily through the following workflow:

Components:

In the Star Tower platform, there are typically several key components:

1. Smart Computing Nodes: Smart computing nodes refer to computing units deployed on smart devices. They are responsible for executing smart computing tasks, processing data, and providing computing resources. Smart computing nodes can be smartphones, IoT devices, servers, etc., with certain computing capabilities and storage resources.

2. **Blockchain Network:** The blockchain network is a distributed network composed of multiple nodes used to store and manage transaction data and smart contracts. The blockchain network ensures data security and reliability, and provides decentralized transaction verification and consensus mechanisms. Common blockchain networks include Ethereum, Hyperledger Fabric, etc.

3. **Smart Contracts:** Smart contracts are automatically executed contract code defined programmatically and deployed on the blockchain. They are used to manage and execute transaction logic, including resource sharing, interaction, and transactions between devices. Smart contracts ensure the reliability and transparency of transactions and automatically execute related operations based on preset conditions.

4. **Client Applications:** Client applications are software installed on user devices for interacting with smart computing and blockchain platforms. They provide a user interface for users to manage and monitor their smart devices, initiate resource sharing requests, view transaction records, etc. Client applications can be mobile apps, web apps, or desktop apps.

5. **Network Communication Protocols:** Network communication protocols are used for communication and data transmission between devices. They ensure reliable connections between smart devices and nodes, and provide data encryption and security protection. Common network communication protocols include HTTP, WebSocket, MQTT, etc.

6. **Data Storage Systems:** Data storage systems are used to store transaction data, smart contracts, and other related information. It can be a distributed database, file system, or object storage, ensuring data persistence and high availability.

These components together form the infrastructure of integrating smart computing with blockchain platforms. They work together to achieve distributed collaboration, resource sharing, and transactions between devices, providing secure, trustworthy, and efficient smart computing services.

The roles within the Star Tower project encompass various entities contributing to its functionality:

1. ****Smart Devices**:** Smart devices form the foundational component of the entire platform. They can include smartphones, sensors, IoT devices, or any other devices with computing and communication capabilities. Smart devices participate in smart computing and blockchain workflows by providing computing resources, storage space, and data processing capabilities.

2. **Network Nodes**: Network nodes serve as intermediary nodes connecting smart devices and the blockchain network. They manage and maintain the operation of the smart computing network and route requests and interactions between devices to appropriate nodes. Network nodes can be servers, routers, or other networking devices.

3. **Blockchain Nodes**: Blockchain nodes are devices or servers participating in the blockchain network. They store and maintain complete copies of the blockchain and participate in blockchain consensus algorithms and transaction validation. Blockchain nodes exchange information and synchronize through peer-to-peer communication protocols.

4. **Smart Contracts**: Smart contracts are programmatically defined and executed contracts that run on the blockchain. They manage and execute transaction logic, including interaction, resource sharing, and transactions between devices. In platforms integrating smart computing with blockchain, smart contracts are used for managing interactions, resource sharing, and transactions between devices.

5. **Platform Administrators**: Platform administrators are entities or organizations responsible for managing and operating the smart computing combined with the blockchain platform. They formulate platform rules and policies, coordinate the work of various roles, address operational issues, and drive the platform's development and growth.

These roles collaborate to build a decentralized platform integrating smart computing with blockchain, facilitating distributed collaboration and resource sharing among devices. Together, they drive the operation and development of the platform, providing users with efficient, secure, and trustworthy smart computing services.

The workflow of the Star Tower project involves several steps:

1. **Installation and Configuration of Star Tower Node Software**:

- Smart devices (such as smartphones) install and configure the Star Tower node software.
- The software can be downloaded from app stores or the official website, and users follow guides to install and set it up.

2. **Resource Provisioning and Sharing**:

- Once the Star Tower node software is installed and launched, smart devices begin providing their computing, storage, network, power, memory, and other resources to the Star Tower blockchain.
- These resources are integrated and managed for various computations and transaction processing on the blockchain.

3. **Network Connection and Data Exchange**:

- The Star Tower node software establishes network connections and communicates with nodes on other smart devices, forming a distributed network.
- Smart devices exchange data and communicate over the network, including transaction information, smart contract execution results, etc.

4. **Contract Vulnerability Detection and Handling**:

- Star Tower aims to enhance contract vulnerability self-checking and self-processing functions. Nodes running on smart devices automatically perform contract vulnerability detection and handling operations.
- If a contract vulnerability is detected, nodes on smart devices will automatically handle it or alert the user.

5. **Transaction Processing and Consensus Mechanism**:

- Nodes on smart devices participate in transaction processing and consensus mechanisms of the public blockchain. They execute smart contracts, verify the validity of transactions, and record them on the blockchain.
- Nodes (smart devices) reach consensus through consensus algorithms to ensure the consistency and security of the blockchain.

6. **Rewards and Incentive Mechanism**:

- The Star Tower project adopts a unique reward model to incentivize resource sharing and collaboration among smart devices.
- Participating nodes receive rewards after completing certain tasks to encourage them to provide more computing power and resources.

7. **Data Processing and Settlement**:

- The Star Tower blockchain utilizes resources provided by smart devices for data processing and settlement, including Resource Interaction Proof (RIP), cross-asset intermediate currency settlement, data processing, transmission, etc.
- These operations are completed by nodes on smart devices and recorded on the blockchain to ensure security and traceability.

Through these processes, the Star Tower project transforms smart devices into public chain servers and nodes, addressing a series of challenges and limitations in traditional public chain environments through resource sharing and contract vulnerability detection functionalities.

Resource Provision and Sharing:

1. **Launch Star Tower Node Software**:

- Users start the Star Tower node software on their smart devices and grant it access

to the device's computing, storage, network, power, and other resources.

2. **Resource Integration and Management**:

- After running on the device, the Star Tower node software detects the available resources, including CPU, memory, storage, etc., and integrates these resources into the public chain network.

- The Star Tower node software allocates appropriate resources to the public chain network based on the device's performance and configuration.

3. **Resource Sharing Protocol**:

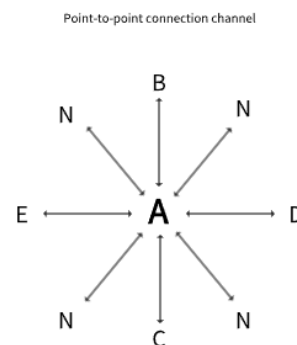
- Star Tower implements the Star Tower Resource Sharing Protocol, which defines the manner and conditions for resource sharing among smart devices to ensure the stability and reliability of the public chain network.

- Smart devices agree to share resources according to the Star Tower protocol and receive corresponding rewards or incentives based on the resources they provide.

4. **Resource Scheduling and Management**:

- The Star Tower node software is responsible for managing and scheduling the resources provided by smart devices to ensure their effective utilization in the public chain network.

- The software dynamically adjusts resource allocation based on demand to meet the processing requirements of different tasks while maximizing resource utilization.



*The letters represent nodes (smart devices)

A smart device contributing resources will provide approximately 61 people with access to the public chain network.
Nodes discover each other through the network and establish point-to-point connection channels to form a distributed network.

abstract description

Network Connection and Data Exchange:

1. **Establishment of Network Connection**:

- Upon launching the Star Tower node software on the device, it automatically

attempts to establish a network connection with nodes running on other smart devices.

- Nodes discover each other over the network and establish peer-to-peer connection channels, forming a distributed network.

2. **Data Exchange Protocol**:

- Star Tower defines a set of protocols for data exchange, specifying the format and method of data exchange between nodes.
- Nodes exchange data in the format stipulated by the protocol, including transaction information, block data, and smart contracts.

3. **Data Transmission and Verification**:

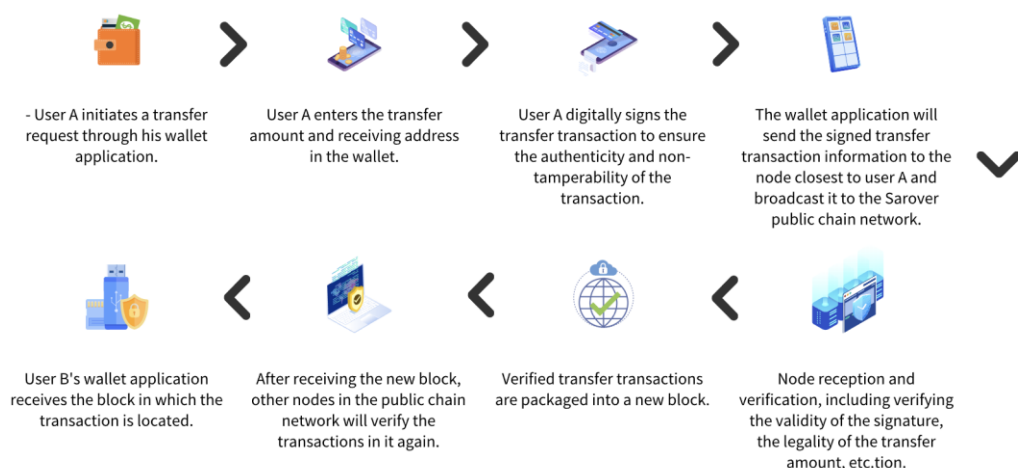
- When a node on a smart device receives data from other nodes, it verifies and confirms the data to ensure its integrity and validity.
- Data transmission is protected by Star Tower technologies such as encryption and signatures to prevent data tampering and malicious attacks.

4. **Transaction Broadcasting and Confirmation**:

- When a new transaction occurs, the node broadcasts it to the entire network, and other Star Tower nodes verify and confirm it upon receipt.
- Through the Star Tower consensus algorithm, transaction validity and consistency are ensured, and the transaction is included in a Star Tower block for immutable and persistent storage.

Through these steps, the Star Tower project facilitates resource sharing and network connectivity among smart devices, providing the foundational support for the operation of the public chain network. Additionally, data exchange ensures the consistency and security of the network's data.

Transfer steps



5. Governance Token

SAVW is the native utility and governance token of the Star Tower blockchain, serving as the primary means of payment for network transaction fees and rewards for distributed participation in providing fragment storage and smart computing. SAVW also functions as a means for one smart device to request resources such as computing power, storage space, or data processing capabilities from another device. These requests and shared resources are recorded on the blockchain via smart contracts, ensuring the trustworthiness and transparency of interactions.

The utility of SAVW token includes:

- Payment of transaction fees on the SAVW network.
- Rewarding distributed fragment storage and smart computing.
- Ensuring the decentralized governance of the SAVW network.

The initial allocation of SAVW tokens in Star Tower is distributed to key stakeholder groups to establish the ecosystem and foundation of the network.

- Fixed total supply of Star Tower (SAVW): 100,000,000
- Market infrastructure supply: 5%
- Supply: 10% (unused and burnt)
- Contributors: 80%
- Energy reserves such as computing and bandwidth: 4%
- Team infrastructure: 1%

The initial distribution of Star Tower tokens will be completed through rewards for providing resources, meaning that 80% of the tokens will be generated through rewarding resource providers. This initial allocation method helps establish the foundation of the ecosystem and network, incentivizing stakeholders to participate in resource sharing and network development.

Specifically, according to this allocation scheme, 80% of Star Tower tokens will be distributed as rewards to users participating in providing resources. This can be achieved through nodes participating in providing computing resources, storage space, or data processing capabilities. This distribution method ensures that the distribution of Star Tower tokens is based on actual contributions to network construction and development, contributing to the establishment of a healthy, active ecosystem.

6. Token Functionality:

a. Voting Rights:

Users holding Star Tower tokens will obtain corresponding voting rights to participate in the distributed governance decisions of the Star Tower blockchain. These decisions may include protocol updates, parameter adjustments, proposal approvals, etc.

b. Proposal Submission:

Users holding a certain number of Star Tower tokens can submit governance proposals to influence the development direction and key decisions of the Star Tower blockchain. These proposals may involve technical upgrades, ecosystem construction, community development, and more.

c. Community Fund Support:

A portion of Star Tower tokens will be used to establish a community fund to support ecosystem development, project incubation, developer incentives, and more. The use of the community fund will be determined by community voting.

Financial Model:

a. Transaction Fee Payment:

Users need to pay a certain transaction fee when conducting transactions on the Star Tower blockchain. These fees will be paid in the form of Star Tower tokens, with a portion used for network maintenance and development, and another portion used to reward miners and nodes.

b. Incentive Mechanism:

Users holding Star Tower tokens can earn rewards by participating in network consensus, providing computing resources, and more. These rewards will be distributed in the form of Star Tower tokens to encourage users to participate in the secure and stable operation of the network.

c. Governance Rewards:

Users participating in governance will receive corresponding governance rewards to encourage more users to engage in the governance and development of the blockchain ecosystem.

d. Voting Incentives:

To encourage more users to participate in voting and proposals, users holding and actively participating in governance will receive a certain proportion of voting incentives to increase their engagement.

e. Long-term Holding Rewards:

Users who hold Star Tower tokens for a long time will receive additional rewards to encourage stable holding behavior and enhance the value stability of the tokens.

f. Infrastructure Development:

A portion of the transaction fees and network revenue will be used to support infrastructure development, including node operation rewards, technical development, security audits, and more, to ensure the continuous and stable operation of the

blockchain network.

g. Ecosystem Development:

A certain proportion of tokens will be used for ecosystem development and expansion, including developer incentives, DApp incubation, community event support, and more, to promote the healthy development of the ecosystem.

h. Burning Mechanism:

To maintain the scarcity and value stability of the tokens, a certain proportion of token burning mechanism may be introduced. This involves using a portion of the transaction fees to buy back and burn tokens, thereby increasing the value of each token.

Through the above governance token and financial model, the Star Tower blockchain will be able to better achieve community autonomy, ecosystem development, and continuous stable operation. Meanwhile, the incentive mechanisms and governance rights design will attract more users to participate in the blockchain ecosystem, driving the prosperity and development of the entire ecosystem.

7. Burning Mechanism

The burning mechanism is a method used to maintain token scarcity and increase its value by destroying a certain number of tokens, thereby reducing the supply of tokens and enhancing the value of each token. Below is a detailed description of the burning mechanism:

Implementation of the Burning Mechanism:

1. Transaction Fee Burning:

Every transaction conducted on the Star Tower blockchain requires a certain amount of Star Tower tokens as transaction fees. A portion of these transaction fees will be used for token burning.

2. Buyback Burning:

Periodically or irregularly, the Star Tower Foundation or network operators will purchase a certain number of Star Tower tokens from the market and then permanently destroy these tokens.

3. Reward Burning:

A portion of the tokens obtained from the incentive mechanisms may be used for burning. For example, tokens earned from mining rewards and node incentives may be burned at a certain ratio.

Advantages of the Burning Mechanism:

a. Increase Token Value:

By burning a portion of the tokens, the supply is reduced, increasing the scarcity and value of each token, thus boosting the market price of the token.

b. Encourage Holders:

The burning mechanism can encourage token holders to hold their tokens for a longer time, knowing that the value of the tokens will increase over time, thereby improving the token retention rate.

c. Promote Ecosystem Development:

Increasing the token's value helps attract more users and developers to participate in the Star Tower blockchain ecosystem, promoting the healthy development of the ecosystem.

d. Hedge Against Inflation:

The burning mechanism helps hedge against inflation, as each burn reduces the supply of tokens, helping to maintain a stable token value.

Through the implementation of the above burning mechanisms, the Star Tower blockchain can effectively enhance the value of the tokens, encourage holders to retain their tokens for the long term, and promote the healthy development of the ecosystem.

II. Consensus Mechanism

Star Tower combines one consensus mechanism with AI integration, allowing every participant in the intelligent network to receive rewards.

1. Resource Interaction Proof Consensus

Resource Interaction Proof (RIP):

The Star Tower project employs a self-developed consensus mechanism called Resource Interaction Proof (RIP). RIP is a novel proof-of-work mechanism designed to leverage resource sharing and block processing by users' smart devices to achieve the mining process.

Distributed Network:

The Star Tower blockchain builds a distributed quasi-linear network composed of nodes running on numerous smart devices. These nodes communicate and exchange information with each other to collectively maintain the entire blockchain network.

Block Processing and Verification:

Nodes running on smart devices are responsible for processing and verifying transactions on the blockchain. They maintain the security and stable operation of the entire blockchain network by executing smart contracts and verifying the validity of transactions.

Proof-of-Work Mechanism:

As a proof-of-work mechanism, Resource Interaction Proof (RIP) requires participating mining nodes to demonstrate that they have provided certain resources, such as computing power, storage space, etc., for processing and verifying transactions on the blockchain. These nodes need to show that they have invested sufficient effort to maintain the network's security and operation.

Validity and Consistency:

The RIP consensus mechanism aims to ensure that every node in the network participates in mining and transaction verification according to the rules, ensuring the validity of transactions and the consistency of the blockchain. Only nodes that have passed the Resource Interaction Proof are eligible to participate in the generation and addition of new blocks.

2. AI StarTower

AI StarTower validators verify the authenticity of the storage, bandwidth, and computing claims of all storage service providers and node users within the network. This verification process eliminates false capacity, bandwidth, and computing claims, ensuring the effectiveness, continuity, and reliability of the network's computing power. Validators are incentivized for their efforts in protecting the network. These mechanisms are designed to ensure the network operates efficiently and securely while preventing any "bad actors" from manipulating the network.

Advantages of AI StarTower Block Verification:

The main advantage of AI StarTower block verification lies in its ability to utilize machine learning and deep learning algorithms to process large volumes of transaction and block data, enhancing the efficiency and accuracy of verification. This approach helps reduce the workload and computational demands on nodes, accelerates transaction processing, and improves the overall security of the system.

By combining the Resource Interaction Proof (RIP) consensus mechanism with AI, the Star Tower project has achieved resource sharing and the mining process using users' smart devices, providing critical assurance for the secure and reliable operation of the blockchain network.

3. Resource Interaction Proof Example

Below is a simple example of a Resource Interaction Proof (RIP) network, consisting of two hidden layers and one output layer:

Input Layer:

- Nodes in the RIP network receive inputs representing various resource interactions, such as computing power, storage space, bandwidth, etc.

Hidden Layers:

- The first hidden layer processes the inputs using mathematical transformations and passes them to the second hidden layer.
- The second hidden layer further processes the data, extracting relevant features and patterns from the resource interactions.

Output Layer:

- The output layer aggregates the processed data and generates a verdict regarding the authenticity of the resource interactions.
- If the resource interactions are deemed authentic, the output layer signals approval; otherwise, it signals rejection.

Training:

- The RIP network is trained using labeled datasets containing examples of genuine and fraudulent resource interactions.
- During training, the network adjusts its parameters to minimize errors and improve its ability to distinguish between authentic and fraudulent interactions.

Inference:

- Once trained, the RIP network can be used for inference, where it evaluates resource interactions in real-time.
- Nodes in the RIP network utilize the trained model to validate resource interactions and ensure the integrity of the network's computing power.

Benefits:

- The RIP network enhances the security and reliability of the blockchain network by effectively identifying and filtering out fraudulent resource interactions.
- By leveraging machine learning techniques, the RIP network continuously learns and adapts to new patterns of fraudulent behavior, making it resilient against evolving threats.

```
import torch  
import torch.nn as nn
```

```
class QuasiLinearNetwork(nn.Module):  
def __init__(self, input_size, hidden_size1, hidden_size2, output_size):  
    super(QuasiLinearNetwork, self).__init__()  
    self.linear1 = nn.Linear(input_size, hidden_size1)  
    self.activation1  
= nn.ReLU() # Use ReLU as activation function for the first hidden layer  
    self.linear2 = nn.Linear(hidden_size1, hidden_size2)
```

```
self.activation2
= nn.ReLU() # Use ReLU as activation function for the second hidden layer
self.linear3 = nn.Linear(hidden_size2,output_size)
```

```
def forward(self,x):
x = self.activation1(self.linear1(x))
x = self.activation2(self.linear2(x))
x = self.linear3(x)
return x
```

```
# Create a quasi – linear network instance
input_size = 100
hidden_size1 = 50
hidden_size2 = 30
output_size = 10
```

```
model = QuasiLinearNetwork(input_size,hidden_size1,hidden_size2,output_size)
```

4. Advantages of Resource Interaction Proof (RIP) as the Core Consensus Mechanism of the Star Tower Project:

1. **Utilization of Surplus Resources from Smart Devices**:

RIP allows smart devices to participate in blockchain mining and transaction processing by sharing computing, storage, and network resources, thus maximizing the utilization of idle resources and improving resource efficiency.

2. **Reduced Dependence on Centralized Servers**:

By turning smart devices into blockchain nodes, RIP reduces reliance on traditional centralized servers. This decentralized architecture enhances the network's resistance to attacks and its overall reliability.

3. **Addressing Pain Points and Drawbacks of Traditional Blockchains**:

RIP effectively addresses many issues prevalent in traditional blockchain environments, such as high energy consumption, long network latency, and low transaction throughput, by improving transaction processing speed, reducing energy consumption, minimizing network latency, and increasing transaction throughput.

4. **Self-Checking, Self-Processing, and Self-Upgrading Functionality**:

RIP incorporates a self-checking, self-processing, and self-upgrading feature for contract vulnerabilities, promptly identifying and resolving vulnerabilities in smart

contracts. This enhances the security and stability of the blockchain network, reducing risks and losses caused by contract vulnerabilities.

5. ****Building a Fully Decentralized, Secure, and Trustworthy Blockchain Network****:

The implementation of RIP enables the Star Tower project to establish a fully decentralized, secure, and trustworthy intelligent blockchain network. Resource sharing and transaction processing among smart devices are facilitated through RIP, laying a solid foundation for the distributed collaboration and development of the blockchain network.

6. ****Applicability in Resource-Constrained Environments****:

RIP's efficiency and speed make it suitable for resource-constrained environments, such as mobile devices or Internet of Things (IoT) devices. This versatility and practicality make the protocol widely applicable in various scenarios.

7. ****Combining Linear and Non-linear Characteristics with Quasi-Linear Networks****:

- Flexibility: Quasi-linear networks can utilize both linear and non-linear characteristics simultaneously, making the model more flexible. This enables it to adapt to various complex data patterns and relationships, thereby enhancing the model's expressive power.

- Interpretability: Compared to fully non-linear models, quasi-linear networks are often easier to understand and interpret. The linear component allows for the direct interpretation of some model behaviors through linear relationships, while the non-linear component captures more complex patterns in the data.

- Generalization Ability: Quasi-linear networks can maintain the generalization ability of linear models to some extent, while also capturing more data features through the non-linear component, thereby achieving good performance on a wider range of datasets.

- Computational Efficiency: Compared to fully non-linear deep neural networks, quasi-linear networks may have higher computational efficiency. The linear component typically has fewer parameters and faster training speed, while the non-linear component can improve computational efficiency through techniques such as parameter sharing.

In conclusion, Resource Interaction Proof (RIP) as the consensus mechanism of the Star Tower project provides crucial support and assurance for building a fully decentralized, secure, and trustworthy intelligent blockchain network by effectively leveraging the idle resources of smart devices, reducing reliance on centralized servers, addressing pain points and drawbacks of traditional blockchains, and incorporating self-checking, self-processing, and self-upgrading functionalities.

5. Unique Features of Star Tower

1. **Smart Devices as Nodes**:

Star Tower integrates smartphones and other smart devices as nodes in the blockchain network, allowing them to participate in mining and transaction processing. Unlike traditional blockchain networks that rely on a few high-energy-consuming centralized servers or nodes, Star Tower achieves decentralization and high dispersion of the network by involving a wide range of smart devices, thereby enhancing network security and stability.

2. **Resource Sharing and Collaboration**:

Through the Resource Interaction Proof (RIP) mechanism, Star Tower facilitates resource sharing and collaboration among smart devices. Idle computing, storage, and network resources of smart devices are fully utilized, not only improving resource efficiency but also strengthening network stability and security. This resource-sharing model helps enhance the efficiency and scalability of the entire blockchain network.

3. **Self-Checking and Self-Processing of Contract Vulnerabilities**:

Star Tower addresses smart contract vulnerabilities by incorporating self-checking, self-processing, and self-upgrading functionalities. Nodes running on smart devices can promptly detect and fix contract vulnerabilities, enhancing the security and stability of the blockchain network. This feature enhances the robustness of the blockchain and reduces potential risks posed by contract vulnerabilities.

4. **Reduced Energy Consumption**:

Traditional blockchain networks rely on a few high-energy-consuming centralized servers or nodes, whereas Star Tower utilizes resources from smart devices, reducing overall energy consumption. Through the Resource Interaction Proof (RIP) mechanism, efficient operation of the blockchain network is achieved, minimizing energy waste. This energy-saving characteristic is significant for sustainability, making Star Tower project environmentally friendly.

5. **Cross-Asset Intermediary Currency Settlement**:

Star Tower blockchain is not just a cryptocurrency platform but also supports cross-asset intermediary currency settlement. This means that exchange and settlement of different assets can occur on the Star Tower network, providing users with a broader range of financial services and application scenarios. This cross-chain interoperability feature expands the application scope of the blockchain and offers more possibilities for liquidity and availability of digital assets.

In summary, the Star Tower project demonstrates unique innovations in smart device participation, resource sharing, security, energy efficiency, and financial applications. These innovations contribute significantly to the construction of a more decentralized, efficient, secure, and trustworthy blockchain network.

III. On-Chain Penalties

1. On-chain Penalties

Punishment Description:

For Star Tower, individuals are incentivized positively to engage with the network, turning their resources into a node, thereby increasing network effects and indices. Additionally, bad actors face negative incentives in the form of fines levied by the network.

Definition of Misconduct:

In the Star Tower network, misconduct may include but is not limited to:

- Engaging in double spending or fraudulent behavior;
- Participating in false resource sharing to deceive rewards;
- Maliciously attacking network nodes or conducting network attacks;
- Violating other behaviors stipulated in the network protocol or smart contracts.

Punishment Mechanism:

Different forms of punishment may be applied for different types of misconduct:

- Double spending or fraudulent behavior may result in asset freezing or deduction of a certain percentage of assets as fines;
- Maliciously attacking network nodes may result in being blacklisted and restricted from participating in network activities;
- Violating network protocol or smart contract stipulations may result in being unable to participate in network transactions for a certain period or deduction of a certain percentage of credit scores.

Execution of Penalties:

The execution of on-chain penalties is usually automated by smart contracts, avoiding the possibility of human intervention and erroneous judgments. When network nodes detect misconduct, smart contracts may automatically execute corresponding penalties according to predefined rules, ensuring that misconduct is promptly and effectively addressed.

Appeal Mechanism:

To ensure fairness and justice, the Star Tower network has established an appeal mechanism that allows users to appeal decisions regarding their punishments. The appeal mechanism may be managed by community autonomy or multi-party participation to ensure the fairness and transparency of penalty decisions.

Preventive Measures:

In addition to the punishment mechanism, the Star Tower network also adopts a series of preventive measures to prevent misconduct, including network monitoring, security reviews, identity verification, etc., to reduce the probability of misconduct and enhance network security and stability.

****Stability of the Entire Network:****

The stability of the entire network is maintained by RIP, meaning that SAVW nodes are responsible for any double signatures, failures, or other improper behaviors through deductions. To be eligible to generate blocks, each node is assigned a RIP equity score for monitoring its normative behavior on the chain. If an SAVW node exhibits improper behavior, such as missing blocks, its equity score will decrease. If a node's penalty score exceeds 30, it will be ineligible to participate in block generation and elections. To restore its eligibility, the node must reset its equity score by paying the appropriate penalty amount.

IV. Node Rewards and Distribution to Delegators

Validators receive two types of rewards: (1) base rewards (newly minted SAVW) and (2) fees collected from transactions in each block. Validators have the discretion to decide how much to reward the delegators of their SAVW or hash power. These validators are incentivized to heavily reward their delegators to attract more hash power and stake. After collecting their fees, the protocol uses a function to determine the distribution between validator staking rewards and hash power rewards, defined as:

$$rH = \frac{rHp}{tHp} \times \frac{m}{S} \times R$$

$$rS = \frac{rSp}{tSp} \times \frac{(1 - m)}{S} \times R$$

Where:

- rH = Validator rewards attributed to hash power
- rS = Validator rewards attributed to staking
- R = Overall rewards attributed to all delegators
- rHu = Rewards per unit of validator hash power
- rSu = Rewards per unit of validator staking

Note that these functions are designed to create an active market for rewards and incentivize competition among validator sets for delegated hash power and stake. Through the same mechanism, delegators will attempt to optimize their rewards by selecting validators with lower delegated hash power and stake.

Node Reward and Allocation Application Example

Let's assume there are 2 validators elected:

A: 2 units of hash power, 1 unit of stake

B: 1 unit of hash power, 4 units of stake

We also assume there are a total of 10 units of SAVW hash power on the core network, so validator 1 has 20% of the hash power, while validator 2 has 10% of the hash power. Similarly, we assume there are a total of 20 stake units on the SAVW network, so validator 1 has 5% stake, and validator 2 has 20% stake. For this example, we also set m to $2/3$.

For simplicity of calculation, we set the amount of rewards to be allocated to the two validators to 1.

Scores:

$$SA = \frac{2}{10} \times \frac{2}{3} + \frac{1}{20} \times \frac{1}{3} = \frac{9}{60}$$

$$SB = \frac{1}{10} \times \frac{2}{3} + \frac{2}{10} \times \frac{1}{3} = \frac{8}{60}$$

Rewards:

$$rHA = \frac{\left(\frac{2}{10} \times \frac{2}{3} \right)}{SA} = \frac{8}{9}$$

$$rSA = \frac{\left(\frac{1}{20} \times \frac{1}{3} \right)}{SA} = \frac{1}{9}$$

$$rHB = \frac{\left(\frac{1}{10} \times \frac{2}{3} \right)}{SB} = \frac{1}{2}$$

$$rSB = \frac{\left(\frac{2}{10} \times \frac{1}{3} \right)}{SB} = \frac{1}{2}$$

Rewards per Unit:

$$rHuA = \frac{rHA}{2} = \frac{4}{9}$$

$$rSuA = \frac{rSA}{1} = \frac{1}{9}$$

$$rHuB = \frac{rHB}{1} = \frac{1}{2}$$

$$rSuB = \frac{rSB}{4} = \frac{1}{8}$$

Relay Rewards

Relays earn a portion of the base system rewards and transaction fees for cross-chain communication. Relay rewards are distributed in batches every 100 Star Tower blocks. Relays regularly claim rewards.

V. Advantages of Star Tower Mining

Adopting Star Tower mining offers several advantages:

1. **Reduced Network Latency**: Star Tower mining shifts mining tasks from centralized cloud servers or high-energy-consuming devices to smart devices for processing. This reduces data transmission latency, enhancing the efficiency of the mining process. Smart devices are widely distributed globally, typically closer to users or data sources geographically, allowing them to respond to mining tasks faster and reducing the

impact of network latency on mining speed.

2. **Resource Sharing and Collaboration**: Star Tower adopts the Resource Interaction Proof (RIP) mechanism, promoting resource sharing and collaboration among smart devices. This means mining participants can share their computing, storage, and network resources, improving mining efficiency and profitability, while also enhancing network stability and security.

3. **Enhanced Network Security**: By distributing mining tasks to smart mobile devices globally, Star Tower reduces reliance on centralized servers. This distributed mining approach improves network security as attackers find it challenging to concentrate attacks on a single central node. Additionally, employing Resource Interaction Proof (RIP) ensures the security of data transmission and computation during the mining process.

4. **Flexibility and Scalability**: Resource Interaction Proof (RIP) features flexible configuration options, adaptable to distributed systems of different scales and requirements. Moreover, with very small threshold settings, the protocol may exhibit strong scalability, able to handle increases and changes in system scale effectively.

5. **Promotion of Innovative Use Cases**: Star Tower opens up possibilities for innovative application scenarios and business models. Resource interaction and sharing among smart devices can lead to various new application scenarios, such as distributed storage, CDN computing, and the Internet of Things (IoT), driving the application and development of blockchain technology in various fields.

VI. Project Security

Star Tower ensures the security of the project through various measures:

1. **Resource Interaction Proof (RIP) Cryptographic Techniques**:

Unique cryptographic techniques are employed to ensure the confidentiality and integrity of data. Public-private key encryption algorithms, digital signatures, and hash functions are used to encrypt and verify data, preventing unauthorized access and tampering.

2. **AI Smart Contract Auditing**:

AI StarTower conducts comprehensive audits of smart contracts to identify potential vulnerabilities and security risks. Contract code is examined through methods such as static analysis, code review, and fuzz testing. Star Tower automatically addresses discovered issues to ensure the security of smart contracts.

3. **Access Control and Identity Verification:**

Strict access control mechanisms are established to limit access to Star Tower and related resources only to authenticated users. Technologies such as multi-factor authentication, AI, access tokens, and permission management are utilized to ensure that only authorized users can perform operations.

4. **AI StarTower Security Auditing and Monitoring:**

AI StarTower's security auditing and monitoring system continuously monitors the security status of the network and applications in real-time. It detects security threats promptly through monitoring abnormal activities, analyzing network traffic, and intrusion detection, and automatically takes corresponding measures to address them, ensuring that the system meets expected functionality and security standards. Through static and dynamic self-analysis of smart contract code, potential vulnerabilities and security risks are detected and addressed autonomously, minimizing vulnerabilities and security risks in smart contracts and safeguarding user assets.

5. **Decentralized Architecture Enhances Network Security:**

Star Tower adopts a decentralized architecture design, where data and transaction records are stored across multiple nodes, enhancing network security. Even if some nodes are attacked or fail, the network can continue to operate without data loss or transaction failures due to single-point failures.

6. **Star Tower Updates and Upgrades:**

Star Tower automatically updates and upgrades blockchain software, smart contracts, and related components in a timely manner, automatically fixing known security vulnerabilities and weaknesses. Keeping Star Tower's technology stack and dependency libraries up to date reduces security risks.

In summary, Star Tower ensures the security of the project through encryption technology, smart contract security auditing, decentralized architecture, real-time monitoring, and emergency response mechanisms, providing users with a trusted and secure blockchain platform.

VII. Star Tower Project Features

Enhancing Security and Functionality in Star Tower

1. **Self-Sovereign Identity and Traceability:**

- Blockchain technology provides self-sovereign identity and traceability capabilities for smart devices. Each device can have a unique identity verified and traced on the blockchain, ensuring the trustworthiness and integrity of the devices and data within the network.

2. **Distributed Collaboration and Shared Economy:**

- Intelligent computing and blockchain promote distributed collaboration and resource sharing among devices. Through smart contracts and blockchain technology, smart devices can securely interact and share computing resources and storage space, creating a decentralized intelligent computing network.

3. **Data Security and Privacy Protection:**

- Intelligent computing allows data to be processed and analyzed on smart devices without transferring sensitive data to the cloud. Blockchain's decentralized and encrypted characteristics ensure data security and privacy protection during transmission and storage.

4. **Opportunities for Innovation and Collaboration:**

- Star Tower enables users to collaborate and interact, providing opportunities for innovation and cooperation among individuals and enterprises. This fosters knowledge sharing and technological advancement.

5. **Sustainable Development:**

- By effectively utilizing computing resources, Star Tower reduces energy consumption and environmental impact, promoting sustainable development in line with the principles of eco-friendly and green mining.

6. **Advanced Intelligent Algorithm Optimization:**

- Star Tower incorporates advanced intelligent algorithm optimization techniques for smart scheduling and resource allocation of mining tasks, maximizing efficiency and returns. These algorithms analyze market conditions in real-time, adjust mining strategies, and optimize mining operations to ensure superior performance for users.

7. **Trustless and Verifiable Computing:**

- Blockchain technology offers verifiability and trustlessness in intelligent computing scenarios. By recording the computing results and data of smart devices on the blockchain, the traceability and verifiability of computation results are ensured, thereby increasing trust in the computing process.

8. **Autonomous Participation:**

- The blockchain project provides opportunities for participants to engage autonomously. Computing power providers can choose to participate and rent or share

their computing power based on their conditions and strengths. Consumers can select suitable computing power providers according to their needs.

9. **Data Privacy and Security:**

- The blockchain project emphasizes data privacy and security. Through encryption and distributed storage, users' data is protected, and only authorized computing power providers can access the data. This mechanism of protecting user privacy and data security enhances participants' trust.

10. **Service-Level Agreements and Payment Mechanisms:**

- Combining intelligent computing and blockchain facilitates automated service-level agreements and payment mechanisms. Smart contracts and blockchain technology enable automated transactions and payments between smart devices, ensuring fair and reliable interactions between service providers and users.

11. **Incentive Mechanism:**

- The Star Tower project adopts an incentive mechanism that encourages computing power providers to participate and contribute through token rewards and economic incentives. This mechanism boosts participants' enthusiasm and enhances the overall quality and efficiency of computing power.

12. **Community Consensus and Governance:**

- Blockchain projects typically establish a community consensus and governance mechanism, allowing participants to make joint decisions and manage project development. Leveraging community wisdom and consensus helps the project address challenges, drive innovation, and maintain sustainable growth.

Addressing Key Issues with Blockchain and Intelligent Computing

By integrating intelligent computing with blockchain, Star Tower addresses several critical issues:

- ****Trustworthiness and Security**:** Ensuring the credibility and security of devices and data.
- ****Data Privacy and Control**:** Protecting sensitive data and giving users control over their information.
- ****Transaction Transparency and Traceability**:** Providing clear and traceable transaction records.
- ****Decentralization and Autonomy**:** Reducing reliance on centralized systems and enhancing network resilience.
- ****Latency and Response Time**:** Minimizing delays and improving the efficiency of computing processes.

Overall, Star Tower offers efficient, secure, and reliable intelligent computing resources,

fostering the development of shared and cooperative computing. These features also provide participants with more choices and control, advancing the growth and diversification of intelligent computing.

VIII. Star Tower Problem Solving

Star Tower Combines Blockchain to Solve Key Issues:

1. **Trust and Security**:

- Blockchain technology provides a decentralized consensus mechanism and immutable data records, ensuring the trustworthiness and integrity of interactions. Smart devices can interact and share resources securely through smart contracts without relying on centralized third parties.

2. **Data Privacy and Control**:

- Smart computing involves significant data exchange and processing, often containing personal or sensitive information. Blockchain integration allows smart devices to better control their data, determine what can be shared, and implement access control. The decentralized nature of blockchain protects data privacy and gives data owners more control.

3. **Scalability and Elasticity**:

- The distributed nature of blockchain enables high scalability and elasticity in smart computing networks. Smart devices can dynamically join or leave the network, sharing computing resources and storage space as needed. Blockchain provides consensus and resource management mechanisms, ensuring the network's stability and reliability.

4. **Transaction Transparency and Traceability**:

- The immutability of blockchain ensures high transparency and traceability in interactions and resource sharing within smart computing. All interactions and transactions are recorded on the blockchain, available for all participants to view and verify, enhancing trust and helping to identify and resolve issues.

5. **Decentralization and Autonomy**:

- By combining blockchain, smart computing networks achieve decentralized resource allocation and decision-making mechanisms. Smart contracts can automate rule and condition execution, enabling autonomy and self-governance among smart devices. This reduces dependency on centralized entities and increases the network's efficiency and flexibility.

6. **Trust and Collaboration**:

- Participants in the Star Tower network can build trust and collaboration through blockchain. The immutability and consensus mechanisms of blockchain ensure the

reliability of transactions and contracts, fostering trust and cooperation among smart devices. This decentralized trust foundation enables secure resource sharing and collaboration among different entities.

7. **Payment and Incentive Mechanisms:**

- Blockchain combined with smart computing can provide payment and incentive mechanisms, encouraging smart devices to participate in resource sharing and computing tasks. Through smart contracts and cryptocurrencies, devices can be rewarded for providing computing resources and storage space. This promotes more devices to participate in mining and resource provision, strengthening the computing network.

8. **Prevention of Single Point of Failure:**

- Blockchain-integrated smart computing addresses the single point of failure issue in traditional cloud computing. In centralized cloud computing, server failures can impact the entire system. In a decentralized smart computing network, data and computations are distributed across multiple devices. If one device fails, others can continue to provide services and execute tasks, ensuring system availability and stability.

9. **Automated Execution of Smart Contracts:**

- Blockchain's smart contracts enable automation in smart computing. These pre-defined computer programs automatically execute operations when specific conditions are met. Smart devices can use smart contracts for automated resource allocation, task scheduling, and data sharing, reducing the need for human intervention and increasing network efficiency.

Conclusion:

Star Tower's integration of blockchain technology addresses crucial issues such as trust and security, data privacy and control, scalability and elasticity, transaction transparency and traceability, and decentralization and autonomy. This combination provides a higher level of security, trustworthiness, and flexibility for smart computing networks, driving innovation and applications across various fields. By leveraging the strengths of blockchain, Star Tower enhances the development and deployment of intelligent computing networks, ensuring robust, efficient, and secure operations.

IX. Project Achievements

Star Tower Project Outcomes:

1. **Establishment of a Decentralized Smart Computing Network:**

- The development and implementation of Star Tower will result in a decentralized smart computing network composed of multiple smart devices. These devices will

collaborate, share resources, and execute computing tasks, forming the core of the project's achievements.

2. **Development of a Trusted Resource Sharing and Interaction Platform:**

- Star Tower will create a secure and trusted platform for resource sharing and interaction. Utilizing blockchain technology, the platform will implement smart contracts and decentralized data recording, ensuring the credibility and transparency of interactions and resource sharing among smart devices. This platform will provide a reliable infrastructure for cooperation and coordination among smart devices.

3. **Enhanced Computing and Data Processing Efficiency:**

- By introducing smart computing, the project will significantly improve the efficiency of computing and data processing. Offloading tasks and data processing to smart devices will reduce data transmission delays and bandwidth pressure, resulting in high efficiency and quick response times during task execution and data handling.

4. **Enhanced Data Privacy and Security:**

- Combining blockchain technology, the project will emphasize protecting data privacy and security. Smart devices will use blockchain to establish secure direct interactions and resource sharing, ensuring data confidentiality and integrity. The project's outcomes will include robust data privacy and security mechanisms, strengthening the overall security of the smart computing network.

5. **Implementation of Smart Computing Mining:**

- The project will enable smart computing mining capabilities. Smart devices can participate in mining activities, contributing computing resources and earning incentives. This will provide a new revenue stream for smart devices and promote the growth and expansion of the smart computing network.

6. **Commercial Collaborations and Partnerships:**

- The implementation of Star Tower is likely to foster commercial collaborations and partnerships. Smart device suppliers, enterprises, and other stakeholders may join the project to drive the development and application of smart computing and blockchain technologies. These collaborations and partnerships will be valuable outcomes of the project.

7. **Realization of Application Scenarios:**

- By integrating smart computing and blockchain, the project can realize various application scenarios across fields such as IoT, smart cities, industrial automation, and healthcare. The project's outcomes will be evident in the development and deployment of efficient, secure, and trustworthy smart computing solutions for these sectors.

8. **Improved Resource Utilization:**

- Star Tower will enhance resource utilization efficiency by enabling the sharing of

computing resources, storage space, and bandwidth among smart devices. The project's outcomes will include optimized resource sharing and scheduling mechanisms, maximizing resource utilization.

9. **Innovative Business Models:**

- The project will potentially create innovative business models and revenue mechanisms. Through blockchain-based payment and incentive systems, it can establish flexible and sustainable business models, encouraging smart devices to participate in resource sharing and computing tasks, providing new business opportunities and revenue sources for stakeholders.

10. **Industry Advancement:**

- The application of Star Tower will drive industry development and innovation. The project's outcomes will offer new insights and practical experiences at both technological and commercial levels in the fields of smart computing and blockchain. This will positively influence industry development pathways, standard-setting, and policy formulation.

11. **Academic Research and Knowledge Contribution:**

- The implementation of Star Tower may lead to academic research outcomes, contributing to related academic fields. The project's experiences and lessons can serve as references for other researchers, promoting academic progress in smart computing and blockchain.

Conclusion:

The Star Tower project will yield both technical and commercial outcomes, such as the establishment of a smart computing network, the development of a trusted resource sharing platform, and the realization of various application scenarios. These outcomes will have a tangible impact on the development and application of smart computing and blockchain technologies, driving innovation and providing practical solutions across various sectors.

X. Business

Star Tower Business Logic:

Market Demand:

- ****Hot Market Area**:** The integration of Star Tower aligns with current market trends. With the rapid development of IoT, AI, and big data, there is an increasing demand for real-time data processing, security, and privacy protection. Our project addresses this market need by providing a more efficient, secure, and trustworthy computing environment for both businesses and individuals.

Value Proposition:

Star Tower combines smart computing and blockchain technology to offer the following value propositions:

- **Faster Data Processing and Response Time**: By pushing computing capabilities to network edges, we reduce data transmission time and latency, providing quicker data processing and response times.
- **Data Security and Privacy Protection**: Blockchain's immutability and smart contracts' programmability ensure secure interactions and data sharing, enhancing data security and privacy protection.
- **Resource Sharing and Collaboration**: Promotes resource sharing and collaboration among smart devices, improving resource utilization and providing more computing power to devices.
- **Decentralization and Autonomy**: Through smart contracts, smart devices can negotiate and interact directly, increasing system flexibility and controllability, allowing devices to make autonomous decisions and execute tasks.

Revenue Model:

Our revenue model includes the following:

- **Software Licensing Fees**: Licensing our smart computing and blockchain integration application software, with pricing based on usage scale and functionality.
- **Service Fees**: Providing related consulting, custom development, deployment, and maintenance services, charging fees based on project scale and service content.
- **Resource Trading**: Packaging and selling surplus storage, computing, and bandwidth resources to those in need.
- **Mining Revenue Sharing**: Earning a portion of mining revenue through the participation of smart devices in mining activities, sharing profits with device owners.
- **Value-Added Services**: Offering value-added services such as smart contract writing, blockchain technology consulting, and project promotion, helping users leverage technologies like blockchain, WEB3, metaverse, and NFTs for additional revenue. Platform earnings will come from service fees for these value-added services.
- **NFT Trading, Metaverse, and Digital Asset Management**: Providing an NFT trading platform and digital asset management services, allowing users to trade and manage their digital assets securely. Platform earnings will come from transaction and service fees.

Business Partnerships:

Form partnerships with device manufacturers, IoT platform providers, and blockchain technology providers to advance the application of smart computing and blockchain. These collaborations will expand market coverage, provide comprehensive solutions, and explore new business opportunities together.

Market Competitive Advantage:

Star Tower has the following competitive advantages in the smart computing and

blockchain integration application field:

- **Technical Leadership**: With advanced smart computing and blockchain technology, we offer innovative solutions. Our team has rich technical experience and expertise, developing highly reliable and secure applications.
- **Comprehensive Solutions**: Providing comprehensive smart computing and blockchain integration solutions, including software, services, and technical support. Our customers can obtain all necessary technologies and services in one place, simplifying the procurement and implementation process.
- **Industry Specialization**: Focusing on specific vertical industries such as IoT, smart cities, and industrial automation, we deeply understand industry needs and challenges, offering customized solutions that meet specific business requirements and providing personalized support and consulting services.
- **User Experience**: Emphasizing user experience, we aim to provide simple, intuitive, and user-friendly interfaces, allowing users to easily operate and manage smart devices and blockchain networks. Continuous user feedback and improvements will optimize products and services, enhancing user satisfaction and loyalty.
- **Compliance and Trustworthiness**: Adhering to data privacy and security best practices, ensuring our solutions comply with relevant regulations and standards. Our blockchain technology guarantees data integrity and transparency, increasing user trust in data security.

Market Outlook:

The market outlook for Star Tower's smart computing and blockchain integration applications is promising. The growth of IoT, smart cities, and industrial automation will continue driving demand for smart computing and blockchain. As technology matures and market awareness increases, we have the opportunity to achieve a leading position in this fast-growing market, gaining significant market share and revenue.

Business Logic Analysis:

Market Demand:

The integration of smart computing and blockchain technology meets the current market's demand for real-time data processing, security, and privacy protection. With the development of IoT, AI, and big data, there is a growing need for fast, secure, and trustworthy computing environments.

Problem Solving:

By combining smart computing and blockchain technology, the project addresses some traditional cloud computing environment issues. For example, it offers faster data processing and response times, reduces dependence on centralized cloud servers, enhances data security and privacy protection through blockchain immutability and smart contract programmability, and promotes resource sharing and collaboration among smart devices, improving resource utilization.

Value Proposition:

The project offers multiple value propositions, including faster data processing and response times, enhanced data security and privacy protection, resource sharing and collaboration, and decentralization and autonomy. These value propositions can meet user needs, improving their efficiency, data security, and business flexibility.

Revenue Model:

The project's revenue model can be realized through software licensing fees, resource trading, service fees, and mining revenue sharing. These revenue sources can help the project achieve profitability and provide funding support for continuous R&D and quality service provision.

Competitive Advantage:

The project has competitive advantages in technical leadership, comprehensive solutions, industry specialization, user experience, and compliance. These advantages can help the project stand out in the market, attract customers, and win the competition.

Market Outlook:

Smart computing and blockchain technology have a broad market outlook in IoT, smart cities, industrial automation, and other fields. As these fields continue to develop and application scenarios increase, the project has the opportunity to gain market share and achieve sustainable growth.

Business Vision:

Our business vision is to become a leading company in the smart computing and blockchain integration application field, driving digital transformation and changing industry operations with innovative solutions and excellent services. We are committed to creating a trustworthy, efficient, and secure smart computing ecosystem, providing superior computing experiences for enterprises and individuals.

Our vision includes the following aspects:

1. **Technical Leadership**: We aim to maintain our technological lead by continuously researching and innovating smart computing and blockchain integration solutions. By introducing the latest technologies and algorithms, we will provide customers with efficient, reliable, and secure computing environments.
2. **Industry Leadership**: We aspire to become a leading company in the smart computing and blockchain integration application field. Through close cooperation with partners and market expansion, we will continuously increase market share and establish our brand and reputation globally.
3. **User Value**: Our mission is to create value for users. We will continuously listen to

customer needs and feedback, provide customized solutions that meet their business requirements, and offer excellent user experiences. By providing high-quality services and support, we will earn customer trust and loyalty.

4. **Social Impact**: We aim to drive societal development and progress through our technology and solutions. We will focus on solving industry challenges, promoting sustainable development, encouraging resource sharing and collaboration, and improving societal efficiency and sustainability.

5. **Community Building and Cooperation**: We will actively build an interactive community, encouraging communication, sharing, and cooperation among users. We will provide online forums, social media platforms, and collaborative project opportunities to promote interaction and cooperation among users, driving mining technology development and innovation together.

6. **Global Expansion**: Our business vision is to become a leading AI computing power sharing mining platform globally. We will actively expand into international markets, establishing close cooperative relationships with users and partners worldwide. Through localized services and support, we will meet the needs of users in different regions and gradually establish a global brand influence.

Conclusion:

Our business vision is to become a leading company in the smart computing and blockchain integration application field, creating value for customers, driving industry development, and making a positive societal impact. We will continuously strive for innovation and improvement to achieve this vision, setting industry benchmarks and examples.

XI. Company Introduction

Star Tower is a leading French technology team focusing on the research, development and application of intelligent computing and blockchain technology. Star Tower is committed to providing customers with efficient, secure and trustworthy intelligent computing solutions through innovative solutions that combine intelligent computing and blockchain.

In an increasingly connected world, intelligent computing has become a key technology to meet the rapidly growing data and computing needs. As a decentralized, secure and trustworthy distributed ledger technology, blockchain brings new opportunities and challenges to intelligent computing. We believe that the integration of intelligent computing and blockchain will promote the development of the digital economy and bring huge value to businesses and individuals.

As a leader in intelligent computing and blockchain, Star Tower provides comprehensive solutions and professional consulting services. Our team of technical experts, researchers and industry consultants has the experience and breadth of knowledge to tailor the best intelligent computing solutions for our customers.

Our core product is an innovative intelligent computing and blockchain integration platform. Based on advanced technology and open architecture, Star Tower provides customers with a highly scalable, safe and reliable intelligent computing environment. Our platform supports key functions such as smart contracts, decentralized data storage and resource sharing, providing users with a seamless intelligent computing experience.

Whether you are an enterprise or an individual user, Star Tower is committed to helping you realize the potential of intelligent computing and combining it with blockchain technology to create a more efficient, secure and trustworthy computing environment. Our mission is to provide customers with superior solutions that drive digital innovation and business growth.

Join us and you will work with a team of industry-leading experts and innovators to jointly promote cutting-edge research and practice in intelligent computing and blockchain technology. We look forward to working with you to create the future of intelligent computing and blockchain.

XII. Legal

1. Privacy Policy

Please read this privacy policy carefully. Star Tower.fr StarTower. cloud (referred to as "Company," "Star Tower," "we," "us," or "our") is committed to protecting your personal data and considers privacy protection a top priority.

1. **Types of Data We Collect**

The types of personal data we collect directly from you or from third parties depend on the context of collection and the nature of the service requested or transaction conducted. This may include, but is not limited to:

- (a) Personal information related to individuals, such as names, genders, dates of birth, and other personal identification numbers.
- (b) Contact information, such as addresses, phone numbers, and email addresses.
- (c) Technical information, such as API service IP addresses and login information.
- (d) Statistical data, such as website click rates.

This privacy policy covers information we collect about you when you use our

products or services or otherwise interact with Star Tower, unless a different privacy policy is displayed. This policy also explains your choices about how we use your information. Your choices include how you can object to certain uses of your information and how you can access and update certain information about you. If you do not agree with the terms of this policy, do not use this website or any of our services. The current version of this privacy policy will apply each time you use any website or service.

2. **How Do We Collect Personal Data?**

This privacy policy covers any personal data provided to us:

- (a) When you use our products and services;
- (b) When you create an account with us;
- (c) Under any other contractual agreement or arrangement.

Some other ways we collect personal data include, but are not limited to:

- (a) Communicating with you via phone, letter, fax, and email;
- (b) When you visit our website;
- (c) When you contact us in person;
- (d) When we contact you in person;
- (e) When we collect information about you from third parties; and other channels, including our support desk.

3. **How Do We Collect Your Personal Data on Our Website?**

On our website, we collect your personal data through the following methods:

- (a) **IP Address**

We use your IP address to help diagnose problems with our server and manage our website.

- (b) **Cookies**

Cookies are data elements that a website can send to your browser, which may then store them on your system. We use cookies on certain pages to store your preferences and record session information. The information we collect is used to ensure a higher level of personalized service for our users. You can adjust your browser settings to notify you when you receive a cookie. Please refer to your browser documentation to check if your computer is enabled to receive cookies or request not to receive cookies. Since cookies allow you to take advantage of some of the essential features of the website, we recommend that you leave them turned on. For instance, if you block or otherwise reject our cookies, you will not be able to use any products or services on the website that may require you to log in (tokens hold stored cookies for favorites). Preventing unauthorized access to your password and computer is important. You should always log out after using a shared computer. We use the information collected from cookies to evaluate the effectiveness of our website, analyze trends, and manage the platform. The information from cookies allows us to determine which parts of our

site are most visited and the difficulties our visitors may encounter when accessing our site. With this knowledge, we can improve the quality of your experience on the platform by recognizing and providing more of the most desired features and information, as well as by resolving access difficulties. We also use cookies and/or web beacons, known as clear gifs, which are typically stored in emails, to help us confirm your receipt and response to our emails and to provide you with a more personalized experience when using our site. Your continued use of this website and any subsequent use will be interpreted as your consent to store cookies on your device.

- (c) ****User Feedback Forms****

Our feedback forms require you to provide us with contact information (such as your name and email address) so that we can respond to your comments. We use the contact information from the registration form to send you information about our company. Your contact information is also used to contact you when necessary.

- (d) ****General Site Tracking****

We also use third-party service providers to help us better understand the use of our website. Our service providers will place cookies on your hard drive and receive information we select, such as how visitors navigate our site, which pages are browsed, and general transaction information. Our service providers analyze this information and provide us with aggregated reports. The information and analysis provided by our service providers will be used to help us better understand the interests of our visitors and how to better serve those interests. The information collected by our service providers may be linked and combined with the information we collect about you when you use the platform. Our service providers are contractually prohibited from using the information they receive from our site except to assist us.

- (e) ****Web Server Site Access Logs****

Here is how we store web server site access logs (applicable to StarTower.fr or StarTower.cloud):

- (i) To limit request rates and prevent certain types of attacks against us, we track incoming IP addresses for a short period and then release them.

- (ii) By default, we do not store identifiable "x-forwarded-for" originating IPs in web server site access logs during your visit to the website.

- (iii) However, in the event of certain types of third-party attacks, general server/application troubleshooting, or other relevant reasons, we may temporarily activate "x-forwarded-for" logging.

- (iv) As part of our routine server maintenance, all raw web server site access logs are retained for at least 5 days before being automatically cleared according to the schedule.

4. For what purposes do we use your personal data?

We may use your personal data for the following purposes:

- (a) to enable us to provide our services to you and perform our services;

- (b) protect the safety and well-being of yourself and/or other customers;
 - (c) investigate and respond to your claims and inquiries;
 - (d) for business development purposes, such as statistical and marketing analysis, system testing, maintenance and development, customer surveys, or to assist us in any future transactions with you, such as determining your requirements and preferences;
 - (e) comply with any legal or regulatory requirements; and/or
 - (f) for all other purposes related to any of the above purposes. ("Core Purpose")
 - (g) communicate offers, products, services and information about products and events;
 - (h) market/cross-market and communicate with you about the products and services provided by us and our service partners and our appointed agents; and/or
 - (i) for all other purposes related to any of the above purposes. ("Accessory Purpose")
- (collectively, the "Purpose")

5. Access/correct/update your personal data

You may request access to your personal information and update or modify your personal information as follows: (a) For online registered customers, you may log in to your online account and update your personal information.

Please note that depending on the information requested, a nominal fee may apply and/or be supported by Ethereum signed messages. We will do our best to provide you with information as quickly as possible. However, we also reserve the right to verify the authenticity of all requests.

6. Withdrawal of consent

Please note that the Company is obliged to process your personal data for the above core purposes, otherwise certain services or functions provided by Star Tower may be affected.

If we process your personal data for ancillary purposes without your consent, we will not be able to provide you with the latest information about our future, new and/or enhanced services and products. However, you can stop receiving promotions by:

- (a) unsubscribe from mailing lists;
- (b) edit the relevant account settings to cancel your subscription; or
- (c) Send a request by contacting us.

7. To whom do we disclose your personal data?

We do not trade or sell your personal data to third parties. Your personal data may only be disclosed or transferred to the following third parties designated or authorized by the Company for the following purposes: (a) Data warehouses; (b) IT service providers; (c) Data analysis and/or marketing agencies; (d) legal authorities as permitted or required by law, such as to comply with a search warrant or subpoena issued by a court of competent jurisdiction; and/or (e) regulatory authorities applicable to you; and/or (f) safety and security personnel.

In addition to the foregoing, your Personal Data may be disclosed or transferred to any actual and potential assignees, transferees or acquisitions of the Company (including our affiliates and subsidiaries) or our business, assets or group companies Party, or personal data associated with any company. Reorganization or exercise, including a reorganization in

which we transfer our business, assets and/or liabilities.

We will take practicable steps to ensure that our employees, officers, agents, consultants, contractors and other third parties noted above who are involved in the collection, use and disclosure of your personal data comply with and comply with the terms of this Privacy Statement.

We comply with various legal and regulatory obligations imposed by the laws and regulatory authorities in various jurisdictions, such as anti-money laundering laws, counter-terrorism financing laws, financial services laws, corporate laws and privacy laws. These obligations may require us to process certain data for payment processing, compliance with court orders, or other purposes not disclosed herein.

8. How long will we retain your personal data?

The Company stores data on servers or smart devices across geographies on global hosting providers, and we will take all reasonable steps to ensure that all personal data is destroyed or permanently deleted when it is no longer needed for that purpose and continues for 24 months. Develop a disposition plan for subsequent inactive data.

9. Links to third-party websites

We may link the Site and/or our App to the websites of other companies or organizations (collectively, "Third-Party Sites"). This privacy statement does not apply to such third-party websites as these websites are not under our control. If you visit third-party websites using the links provided, the operators of those websites may collect your personal information.

Please make sure you are familiar with the privacy statements of these third-party websites before submitting any personal information. We strive to ensure that all third party linked websites have equivalent measures to protect your personal information, but we cannot accept have legal or other liability for the activities, privacy policies or level of privacy compliance of these third parties. Party website.

10. Other information or help

Please note that this Privacy Statement may be revised from time to time in accordance with applicable laws and regulations, and such changes may apply to you.

If you have further questions or complaints about our processing of your personal data or our privacy policy, or wish to access, update or amend your personal data (as described above), please contact us via the feedback form in Contact Us connect.

2. Terms of Service

Please read these Terms of Service carefully.

By accessing or using our Services, you agree to be bound by these Terms of Service and all terms incorporated by reference.

These Terms of Service and any terms expressly incorporated herein (the "Terms") apply to your access to and use of all services provided by StarTower.FR(StarTower.cloud)("Company", "we", or "us") (our "Services") . .

1. Qualifications

You represent and warrant that you: (a) are of legal age to form a binding contract; (b) have not previously been suspended or prohibited from using our Services; (c) have full power and authority to enter into this Agreement, and so Doing so will not violate any other agreement to which you are a party.

If you register to use the Services on behalf of a legal entity, you further represent and warrant that (i) such legal entity is duly organized and validly exists under the applicable laws of its organizational jurisdiction, and (ii) you are duly authorized by such legal entity to act on its behalf.

2. Account registration

You must create an account with Company to access the Services ("Account"). When you create an account, you agree to:

- (a) create a strong password that is not used on any other website or online service;
- (b) provide accurate and truthful information;
- (c) maintain and promptly update your account information;
- (d) maintain the security of your account by protecting your account password and restricting access to your computer and account;
- (e) notify us immediately if you discover or suspect any security breach related to your account; and
- (f) To the fullest extent permitted by law, you are responsible for all activities that occur under your account and accept all risks of any authorized or unauthorized access to your account.

When you create an account, we assign you an account identifier, which you must retain in order to access your account.

3. Interruption of service

We may modify or discontinue, temporarily or permanently, any part of our Services at any time, in our sole discretion and without any liability to you.

4. Risk assumptions

You acknowledge and agree that there are risks associated with the use of Internet-based services, including, but not limited to, the risk of hardware, software and Internet connection failure, the risk of the introduction of malware, and the possibility of unauthorized access by third parties to information stored in your account.

You acknowledge and agree that the Company is not responsible for any communications failures, interruptions, errors, distortions, or delays (regardless of the cause) that you may experience while using the Services. The Company is not responsible for any loss, damage or claim arising from the use of our services, including but not limited to any loss, damage or claim caused by the following reasons:

- (a) the password is "brute force",
- (b) server failure or data loss,
- (c) forget your password,

- (d) corrupted wallet files,
- (e) the transaction is constructed incorrectly or an incorrect Ethereum address is entered;
or
- (f) unauthorized access to the Mobile Application,
- (g) "phishing," viruses, third-party attacks, or any other unauthorized third-party activity.

5. Third-party services and content

When using our Services, you may view content provided by third parties or use the services of third parties, including links to such third party web pages and services ("Third Party Content").

We do not control, endorse or adopt any Third Party Content, and are not responsible for any Third Party Content, including without limitation any Third Party Content that may be misleading, incomplete, erroneous, offensive, indecent or otherwise objectionable in your jurisdiction of third-party content. Objectionable material.

In addition, your business dealings or correspondence with such third parties are solely between you and the third party. We are not responsible for any loss or damage of any sort incurred as the result of any such dealings, and you understand that your use of Third-Party Content and your interactions with third parties are at your own risk.

6. Acceptable use

When accessing or using the Services, you agree that you will not violate any law, contract, intellectual property or other third party rights or commit a tort, and that you are solely responsible for your conduct while using our Services. you can not:

- Use our Services in any manner that could interfere with, disrupt, negatively impact, or prevent other users from fully enjoying our Services, or that could impair, disable, overburden, or impair the functionality of our Services in any way;
- Use our Services to pay for, support or otherwise engage in any illegal activity, including but not limited to illegal gambling, fraud, money laundering or terrorism;
- Use any robot, spider, crawler, scraper or other automated means or interface not provided by us to access our Services or extract data;
- Participate in automatic data collection (scraping), except where such automatic data collection is limited to search indexing for display on the Internet;
- Copy any published content (such as public tags or name tags) or content extracted from our API, CSV export, or our website or any of our affiliated websites without our prior consent or authorization.
- Unauthorized use or attempted use of another user's account;
- Attempt to circumvent any content filtering technology we use, or attempt to access any Services or areas of our Services that you are not authorized to access;
- Introduce any viruses, trojan worms, logic bombs or other harmful material to the Service;
- Develop any third-party applications that interact with our Services without our prior written consent;
- Provide false, inaccurate or misleading information; and
- Encourage or induce any third party to engage in any activity prohibited by this section.

7. User-generated content

7.1. Responsibility for User-Generated Content - You are solely responsible for the content of, and any harm resulting from, any User-Generated Content that you post, upload, link to, or otherwise make available through the Service, regardless of the form of that content. We are not responsible for any public display or misuse of your User-Generated Content. We have the right (but have no obligation) to refuse or remove any User-Generated Content that, in our sole discretion, violates any Star Tower terms or policies.

7.2. Content Ownership and Publication Rights - If you do not create or own the rights to any content you post, you agree to be responsible for any content you post; you will only submit content that you have the right to post; and you will fully comply with Any third-party licenses associated with content you post.

7.3. Licenses granted to us - We need the legal rights to do things like host your content, publish and share it. You grant to us and our legal successors the right to store, parse and display your Content and to make accompanying copies as necessary to present the Site and provide the Services.

7.4. Moral Rights - You retain all moral rights, including rights of integrity and attribution, in the content you upload, post or submit to any part of the Service. However, you waive these rights and agree not to assert them against us to enable us to reasonably exercise the rights granted in clause 7.3.

7.5. If this Agreement is unenforceable by applicable law, you grant Star Tower the necessary rights to use your Content without attribution and to make reasonable adjustments to your Content as necessary for the purpose of rendering the Website and provide services.

8. Copyright and other intellectual property rights

Unless we indicate otherwise, all copyright and other intellectual property rights in all content and other material contained on our website or in connection with the Services, including without limitation the company or company logos and all designs, text, graphics, images, information, Data, software, sound files, other files, and the selection and arrangement thereof (collectively, the "Company Materials") are the exclusive property of the Company or our licensors or suppliers and protected by copyright and other intellectual property laws.

Unauthorized use and/or duplication of this material without express and written permission from this site's author and/or owner is strictly prohibited. Excerpts and links may be used, provided that full and clear credit is given to StarTower.fr or StarTower.cloud with appropriate and specific direction to the original content.

9. Trademarks

The "Star Tower" Company logo and any other Company product or service names, logos or slogans that may appear on our Services are trademarks of the Company and may not be copied, imitated or used, in whole or in part, without our prior written permission.

You may not use any Company trademark, product or service name, including without limitation any meta tags or other "hidden text" utilizing any Company trademark, product or service name, without our prior written permission. In addition, the look and feel of our

Services, including all page headers, custom graphics, button icons, and scripts, are the service marks, trademarks, and/or trade dress of Company and may not be copied, imitated, or used, in whole or in part. Some without our prior written permission.

All other trademarks, registered trademarks, product names and company names or logos mentioned through our Services are the property of their respective owners. Reference to any products, services, processes or other information by name, trademark, manufacturer, supplier or otherwise does not constitute or imply our endorsement, sponsorship or recommendation.

10. Suspension; termination

In the event of any force majeure event, breach of these Terms or any other event that makes it commercially unreasonable for the Company to provide the Services, we may suspend your Services at our sole discretion and without any liability to you, with or without prior notice to all of our or Some services.

We may, in our sole discretion, immediately terminate your access to the Services without notice and delete or deactivate your account and all related information and files in that account without any liability to you, including, for example, if you violate any provision of these Terms.

11. Cookie Statement

This website uses cookies. Cookies are small text files that are placed on your computer by websites you visit. They are widely used to make websites function properly or more efficiently, as well as to provide information to website owners. Cookies are typically stored on your computer's hard drive.

We use the information collected from cookies to evaluate the effectiveness of our site, analyze trends, and administer the Platform. The information collected from cookies allows us to determine which parts of our website are most visited and the difficulties our visitors may encounter while accessing our website. Armed with this knowledge, we can improve the quality of your experience on the Platform by identifying and delivering more of the most requested features and information and resolving access difficulties. We also use cookies and/or a technology called web bugs or clear gifs, which are typically stored in emails, to help us confirm your receipt of and respond to our emails and provide you with information when using our website A more personalized experience.

We also use third-party service providers to help us better understand how our website is used. Our service providers will place a cookie on your computer's hard drive and receive information that we select that will help us understand how visitors navigate our site, which pages they view, and general transactional information. Our service providers analyze this information and provide us with aggregated reports. The information and analytics provided by our service providers will be used to help us better understand visitor interests in our website and how to better serve those interests. Information collected by our service providers may be linked and combined with information we collect about you when you use the Platform. Our service providers are contractually prohibited from using information received from our site except to assist us.

Your continued use of this website and any subsequent use will be interpreted as your consent to the storing of cookies on your device.

12. Privacy Policy

Please see our detailed privacy policy.

13. Disclaimer

(a) To the maximum extent permitted by applicable law, our Services are provided on an “as is” and “as available” basis to the maximum extent permitted by applicable law, unless we expressly provide to the contrary in writing. We expressly disclaim, and you waive, all warranties of any kind, whether express or implied, including, without limitation, the implied warranties of merchantability, fitness for a particular purpose, title and non-infringement, with respect to our Services (including information and content) and the materials contained therein.

(b) You acknowledge that the information you store or transmit through our services may be irreparably lost or damaged or temporarily damaged due to various reasons, including software failures, changes to agreements by third-party providers, Internet outages, force majeure events, etc. Unavailability or other disaster, planned or unplanned maintenance, or other causes within or beyond our control. You are solely responsible for backing up and maintaining copies of any information you store or transmit through our Services.

14. Limitation of Liability

Except as otherwise required by law, in no event shall the Company, our directors, members, employees or agents be liable for any special, indirect or consequential damages or any other damages of any kind, including, but not limited to, loss of use, loss or damage of any kind. Loss of profits or data arising out of or in any way related to the use of or inability to use our services or company materials, whether in an action of contract, tort (including, without limitation, negligence) or otherwise, including without limitation any action caused by any user's reliance Any damages caused by or resulting from any information obtained from the Company or resulting from errors, omissions, interruptions, file or email deletions, errors, defects, viruses, delays in operation or transmission or any failure of performance, whether or not Caused by a force majeure event, communications failure, theft, destruction or unauthorized access to Company records, programs or services.

15. Compensation

You agree to indemnify the Company (and each of our officers, directors, members, employees, agents and affiliates) from and against any claims, demands, actions, damages, losses, costs or expenses (including, without limitation, reasonable attorneys' fees). Defend, indemnify and hold the Company harmless from any damages arising out of or related to:

- (a) your use of or conduct related to our Services;
- (b) any feedback you provide;
- (c) you breach these Terms; or
- (d) your violation of any rights of any other person or entity.

16. Others

16.1. Entire Agreement; Order of Precedence. These Terms contain the entire Agreement and supersede all prior and contemporaneous understandings between the parties regarding the Services. These Terms do not alter the terms or conditions of any other electronic or written agreement you may have with Company regarding the Service or any other Company products or services or otherwise. If there is any conflict between these Terms and any other agreement you may have with the Company, the terms of that other agreement will be binding only if those terms are expressly identified and stated to be overridden by the other agreement.

16.2. Amendments. We reserve the right, at our sole discretion, to change or modify these Terms from time to time. Unless we indicate otherwise by notice of such revised Terms, revised Terms will be effective immediately on the date they are posted on the Service. Any revised Terms will apply to use of the Services after such changes become effective. Your continued use of the Services after such changes become effective will constitute your acceptance of such changes. If you do not agree to any revised terms, you must stop using the Services.

16.3. give up. Our failure or delay in exercising any right, power or privilege under these Terms does not constitute a waiver.

16.4. Severability. The invalidity or unenforceability of any provision of these Terms will not affect the validity or enforceability of any other provision, all of which will remain in full force and effect.

16.5. Force majeure event. The Company shall not be liable for any loss or damage caused by any event beyond the reasonable control of the Company, including but not limited to flood, abnormal weather conditions, earthquake or other act of God, fire, war, rebellion, riot, industrial dispute, accident , government action, communications, power failure, or equipment or software failure (each a "Force Majeure Event").

16.6. Task. You may not assign or transfer any of your rights or obligations under these Terms, including by operation of law or in connection with any change of control, without Company's prior written consent. Company may assign or transfer any or all of its rights under these Terms, in whole or in part, without your consent or approval.

Star Tower