

Autonomous Eco-Tech World

White Paper Ver 2.0

Abstract

The Autonomous Eco-Tech World is a global financial ecosystem project built around the core of the AET chain. Positioned as the cornerstone of decentralized finance, AET WORLD is dedicated to establishing a digital economy in third-world countries and driving decentralization and innovative in the global financial system. The AET chain is designed to provide highly secure, transparent, and scalable solutions for global financial transactions, digital assets, and smart contracts, thus creating a super financial hub for the digital economy across the globe.

The goal of AET WORLD is to establish a global financial autonomous entity, offering increased autonomy and flexibility to governments and businesses worldwide through a robust decentralized public chain.¹

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1. Project Background

1.1 Gold Standard to Dollar Dominance

Currency possesses a potent network effect, with its universality continually strengthening as the number of users grows. This attribute imparts a robust inertial quality to the international monetary system, typically requiring significant events at economic and societal levels to disrupt its established structure.

A century ago, the gold standard international monetary system crumbled under the dual impact of the Spanish flu and World War I. Despite attempts by some countries in the 1920s and 1930s to reconstruct the gold standard, these efforts ended in failure. Subsequently, after the conclusion of World War II, the absolute dominance of the United States in military, economic, and financial realms led to the establishment of the Bretton Woods system, centered around the U.S. dollar, which operated relatively stable for over 30 years.

However, with the shocks of geopolitical events such as the Vietnam War and the Middle East oil crisis, the Bretton Woods system collapsed in 1973. Over the following 40 years, the world entered into a dollar-dominated international monetary system. Even after the collapse of the Bretton Woods system, the global dominance of the U.S. dollar persisted. This enduring dominance manifested in various aspects, including the dollar's supremacy in international trade and financial markets, as well as its continued strength as an international reserve currency.

1.2 Dollar Ascendancy in Globalization and Financialization

The resilience and persistence of the U.S. dollar in the international monetary system have demonstrated remarkable strength, as its global standing not only did not decline after the collapse of the Bretton Woods system but instead became more consolidated. The establishment and continuity of this powerful position are primarily attributed to the driving forces of two significant trends: globalization and financialization.

The Tide of Globalization Propels the Widespread Use of the Dollar

Globalization encompasses the liberalization of international trade and financial markets, with one significant catalyst being China's policy of economic reform and opening up. This integration into the global supply chain rapidly positioned China as the center of global manufacturing and export. This process increased the demand for the U.S. dollar in international trade. Trade surplus countries, such as China, purchase U.S. Treasury bonds and other financial assets to maintain their balance of payments, further strengthening the international status of the dollar. Meanwhile, trade deficit countries utilize dollar financing to bridge their international balance gaps, thereby ensuring the liquidity and importance of the U.S. dollar in international trade.

Financialization Further Consolidates the Dollar's International Standing

As the global financial hub, the United States attracts substantial international capital inflows by offering secure assets and commercial financing. While there is an expectation that exchange rate fluctuations would maintain balance of payments, in reality, the impact of exchange rate fluctuations is relatively limited. International balance of payments is heavily reliant on capital flows, a process predominantly facilitated by the United States through the provision of secure assets and commercial financing. Trade surplus countries like China and Japan, as well as energy-exporting nations, sustain their international balance by purchasing U.S. Treasury bonds and other financial assets as secure investments. Simultaneously, trade deficit countries, especially those dependent on energy imports,

utilize dollar financing to address their international balance gaps.

Hence, over the past four decades, globalization and financialization have mutually reinforced each other, not only preserving the international status of the U.S. dollar but also positioning it as a crucial player in the international economy. This demonstrates the resilience and adaptability of the U.S. dollar's international monetary system, as it stands firm and continues to play a pivotal role even amid significant evolutions in the international monetary system.

As time has progressed, a series of negative effects have emerged, including financial risks and wealth inequality. The outbreak of the U.S. subprime mortgage crisis triggered a reconsideration of mainstream ideas and policy frameworks of the past few decades, leading countries to strengthen financial regulatory measures, and the trend of globalization has experienced a slowdown. Recent events such as the pandemic and geopolitical conflicts have deepened this reconsideration, with deglobalization and de-financialization becoming factors that cannot be ignored when contemplating the future development of the global economy, profoundly impacting the evolution of the international monetary system.

1.3 Currency Dynamics in Developing Nations

In recent years, the international monetary system has exhibited a trend towards diversification. Particularly, a series of rare and systematically significant shock events, such as the COVID-19 pandemic and the Russia-Ukraine conflict, have profoundly impacted economic and social structures. This has sparked widespread discussions regarding the U.S. dollar-dominated international monetary system. These discussions encompass deviations in the internal and external value of the U.S. dollar, a decline in the universality of global financial assets, and questioning the reliability of the U.S. dollar due to financial sanctions, among other factors. The turbulence in this new landscape presents unprecedented challenges and calls for reform in the international monetary system.

In this evolving scenario, developing countries, especially those in the third world, are confronted with unprecedented issues related to currency sovereignty. The impacts of foreign exchange fluctuations, pressures from external debt and financing, unequal international financial regulations, and the transmission effects of external economic shocks constitute significant aspects of the currency sovereignty challenges faced by these nations. Consequently, developing countries urgently require flexible and pragmatic strategies to adapt to and actively engage in the evolution of the international monetary system under the new circumstances. This is crucial for ensuring the stability and sustainable development of their own currency sovereignty.

1.3.1 Diversifying the Emerging Monetary System

The fundamental functions of international currencies include serving as a unit of account, a medium of exchange, and a store of value. From a data perspective, the dominance of the U.S. dollar in these three aspects has seen a decline, while the international status of currencies from emerging economies has experienced a certain degree of ascent. This indicates a trend towards diversification in the international monetary system.

From the Reserve Function Perspective, the Dominance of the U.S. Dollar in the Traditional International Monetary System Shows a Significant Decrease, While the Share of Emerging International Currencies Has Increased. According to the International Monetary Fund (IMF) statistics, the share of U.S. dollar reserves reached a temporary high of 66% in 2015 and has been on a declining trend, reaching 58.36% by the end of 2022.

Meanwhile, the shares of traditional international currencies such as the Euro, Yen, and Pound have also decreased in international reserves. Of the reduced share of the U.S. dollar in global foreign exchange reserves, one-fourth has been replaced by the Chinese Renminbi, and the remaining three-fourths have flowed into non-traditional reserve currencies such as the Australian Dollar, Canadian Dollar, Swiss Franc, Korean Won, Swedish Krona, and Singapore Dollar. The combined foreign exchange reserve assets of these currencies have gradually risen to over 10% of global foreign exchange reserves in the past two decades.

From the Transaction Function Perspective, the Share of the U.S. Dollar in International Payments Has Also Declined. According to the Society for Worldwide Interbank Financial Telecommunication (SWIFT) statistics from 2015 to the pre-Russia-Ukraine conflict period in 2022, the share of the U.S. dollar in international payments has decreased, with an increase in the share of the Euro and the Renminbi, as well as other currencies like the Singapore Dollar. For example, several countries have recently engaged or are planning to engage in cross-border trade activities using the Renminbi. For instance, in December 2022, China's Yiwu and Saudi Arabia completed the first cross-border Renminbi payment transaction. Brazil announced in March 2023 that it had reached an agreement with China to conduct future trade in local currencies, and some Brazilian banks have joined the Renminbi Cross-Border Payment System (CIPS) developed by the People's Bank of China. As of the end of March 2023, CIPS has a total of 1,427 participants, including 79 direct participants and 1,348 indirect participants, covering 109 countries and regions globally.

From the Valuation Function Perspective, the Role of the U.S. Dollar has Weakened, and Currencies from Emerging Economies are Gradually Gaining Favor. In the field of financial transactions, emerging economies have increased the proportion of debt financing in their local currencies in recent years. In the commodity sector, there has also been a strengthening of transactions denominated in local currencies among emerging economies. For example, China has achieved Renminbi-denominated oil transactions with Iran and Russia. Following the joint implementation of the "Russia Oil Price Cap" by Western countries, India's oil transactions with Russia are mainly denominated in the Ruble and Dirham. These measures pose a challenge to the "oil-dollar" mechanism, which is a crucial pillar of the U.S. dollar system.

1.3.2 Currency Sovereignty Issues in Third World Countries

In the current international economic environment, third world countries face a series of severe currency sovereignty issues that directly impact their economic independence and sustainable development.

- **Impact of Foreign Exchange Fluctuations:** Third world countries' local currencies are susceptible to the volatility of the global market, especially in the face of global crises such as the COVID-19 pandemic. This susceptibility results in currency value instability, rendering these countries more vulnerable in trade and financial activities. Currency depreciation may lead to inflation, further exacerbating social instability.
- **External Debt and Financing Pressure:** Third world countries typically rely on external financing to meet domestic needs, including infrastructure development and economic development projects. However, this dependency can result in significant external debt, making these countries more sensitive to the global financial markets. The repayment pressure of external debt may lead these countries into financial distress, affecting their ability to formulate independent monetary policies.
- **Inequality in International Financial Rules:** Rules and standards set by international financial institutions are often more favorable to developed countries, placing third world countries in a relatively weaker position in the international financial system. This limitation restricts these countries' ability to address domestic economic challenges through adjustments to monetary policy.

- **Transmission Effects of External Economic Shocks:** Fluctuations in the global economy can transmit to third world countries through trade and financial channels, posing a threat to their currency sovereignty. This transmission effect may manifest in fluctuating commodity prices, reduced international investments, and fluctuations in foreign exchange reserves, thereby affecting the currency stability and domestic economic development of these countries.

1.4 Future Currency Demand

Currently, the monetary system is at the beginning of a transformation that could have profound effects on the banking industry, the financial sector, and even the entire societal structure. One of the most notable trends is the gradual demise of physical currency or cash, even in middle and low-income countries. The era of digital currency has arrived, and its applications have already had a significant impact both domestically and internationally. This transformation has not only sparked a new round of competition between official and private currencies in the monetary field but has also triggered a massive wave in the financial sector. One key factor driving this trend is the cost issue associated with paper currency. The production of paper currency incurs substantial costs, consuming vast resources and funds annually, while the emergence of digital currency provides a practical solution to reduce these costs.

The Excessive Comprehensive Cost of Banknotes

As a general equivalent, currency requires materials and manufacturing processes. Whether it's ancient gold ingots, silver ingots, and copper coins, or today's paper money and coins, thoughtful consideration of resources, materials, production methods, and anti-counterfeiting technologies is needed. Digital currency, on the other hand, can significantly save on the various costs associated with minting.

Taking the US dollar banknote as an example, every year, the Federal Reserve Board of the United States predicts the potential demand for new currency. They then place orders with the Bureau of the Treasury for carving and printing, and the Bureau produces the US dollars, charging the Federal Reserve Board for production costs. According to the official website of the Federal Reserve in 2023, in an article titled "How much does it cost to produce currency and coin?" the printing and related support costs of banknotes account for 92.2% of the single-cycle currency operating budget in 2023.

The Imminent Rise of a "Cashless Society"

The current global health crisis, exacerbated by the novel coronavirus (COVID-19) pandemic, has accelerated the trajectory toward a "cashless society." On April 15, 2020, Laura D'Andrea Tyson, former Chair of the US President's Council of Economic Advisers and professor at the Haas School of Business, University of California, Berkeley, highlighted this trend during a discussion on "How the Economy Will Look After the Coronavirus Pandemic" organized by Foreign Policy magazine. She stated, "The COVID-19 pandemic and subsequent recovery will accelerate ongoing trends in digitization and job automation. Many shifts in demand caused by the pandemic will alter the composition of future GDP, with the share of the service sector in the economy continuing to rise. However, as digitization advances, the organization and delivery of these services will undergo changes."

Moreover, reliance on paper currency for payments, transactions, and anti-money laundering measures has become increasingly challenging and costly in modern society. Digital currencies offer effective solutions to these issues, leveraging technologies like blockchain for traceability. From a security standpoint, every transaction in electronic payments can be traced, raising concerns about potential infringements on individual privacy.

Centralization and Decentralization: Dual Facets of Digital Currencies

Digital currencies, typically issued and managed by a country's central bank or government, represent a centralized form of currency. This implies that government entities possess absolute control over the issuance, regulation, and circulation of digital currencies. While digital currencies offer convenience in certain aspects, their centralized nature may lead to some challenges. In contrast, cryptocurrencies are decentralized digital currencies, not subject to the control of a single central authority. They rely on blockchain technology and community validation of transactions, providing some unique advantages:

- **Greater Freedom and Innovation Space:** Due to their decentralized nature, cryptocurrencies offer greater freedom and innovation space. People can freely use and trade cryptocurrencies, fostering financial innovation.
- **Cross-Border Transactions and Financial Inclusion:** Cryptocurrencies are global and can facilitate transactions across borders, providing broader financial inclusion. They allow those without traditional bank accounts to access financial services.
- **Security and Privacy:** Cryptocurrencies use cryptographic technology to ensure the security and privacy of transactions. Although some cryptocurrency networks face privacy challenges, they typically offer higher levels of anonymity.

In summary, the emergence of new stablecoin reflects the market's demand for a more flexible, efficient, and stable form of currency. While the US dollar remains the primary global reserve currency, the development of digital currencies and the gradual transformation of the international monetary system suggest that the future currency system may become more diverse, bringing new possibilities to the global economic and financial system.

1.5 Fully Decentralized Financial Infrastructure

In the current international monetary landscape, while cryptocurrencies themselves address certain issues, they are often constrained by the dominance of the US dollar in the global monetary system and may not effectively tackle all challenges. To genuinely address the myriad problems facing global finance, a more holistic and comprehensive decentralized approach is needed. Establishing a new financial ecosystem is crucial to empower countries to develop autonomously and adapt to changes in the international economy.

The dominance of the US dollar in the international monetary system grants the United States significant financial and political influence. However, this singular and centralized system brings forth various potential issues. On one hand, the global economy becomes overly fragile in relying on a single country's currency, leading to significant disruptions in international financial transactions. On the other hand, for developing countries, dependence on the US dollar may imply a loss of financial autonomy, making them more susceptible to fluctuations in international financial markets and US policy influences. Therefore, there is a need for new solutions to ensure the stability and sustainable development of the global financial system.

Against this backdrop, the introduction of a new decentralized global financial ecosystem project becomes a critically important initiative. AET WORLD is a revolutionary global financial ecosystem project aiming to enhance economic autonomy for countries worldwide by establishing a robust decentralized public chain as its core infrastructure. The goal of AET WORLD is to reduce dependence on the US dollar-dominated system, enabling countries to develop more autonomously while addressing the multiple challenges facing the global financial

landscape.

2. AET WORLD: Redefining Financial Autonomy

2.1 Overview

Autonomous Eco-Tech World (AET WORLD), centered around the AET public chain, is a global financial ecosystem project aimed at driving decentralization and innovative in the global financial system. AET WORLD seeks to provide highly secure, transparent, and scalable solutions for global financial transactions, digital assets, and smart contracts. The project aims to construct a digital economic super-financial market for developing or third-world countries worldwide.

The primary objective of AET WORLD is to establish a global financial autonomous community, offering increased autonomy and flexibility to governments and enterprises worldwide through a robust decentralized public chain. Specific goals include:

- Build a highly secure, scalable, and intelligent public chain as the next-generation financial infrastructure to meet the needs of the global economy.
- Drive national-level decentralized chain-evolution through stablecoin issuance, enhancing financial inclusivity, and contributing to the prosperity of the global economy.
- Provide a digital identity management system to safeguard user privacy and security while ensuring financial regulatory compliance.
- Establish a digital financial ecosystem, encouraging the development of financial innovation, smart contracts, and decentralized financial applications to enhance financial inclusivity.
- Through international collaboration and global cooperation, promote the global adoption of the AET WORLD ecosystem to address the challenges of the global economy.

2.2 Vision

The vision of AET WORLD is to pioneer the global revolution in fiat digitization.

The vision is centered around creating a more equitable, transparent, and sustainable global financial system. This aspiration stems from a critical reflection on the current international financial system and an understanding of the challenges facing the global economy. Through the establishment of a decentralized public chain and the creation of a global financial ecosystem, AET WORLD seeks to address various global economic issues, including trade imbalances, geopolitical tensions, and inflation. The public chain is envisioned as the core infrastructure for global financial transactions and digital assets, offering highly secure, transparent, and scalable solutions to ensure the stability and prosperity of the global economy.

Firstly, AET WORLD's vision is to provide nations with greater economic autonomy through a decentralized public chain. Many countries currently rely on the U.S. dollar for international trade and financial transactions, potentially limiting their autonomy. AET WORLD aims to change this by establishing a decentralized financial infrastructure, enabling countries to conduct financial activities independently and better meet their economic needs.

Secondly, AET WORLD's vision is to contribute to a more multipolar international monetary system, reducing the

fragility of the global economy and enabling nations to participate more equitably in international trade and finance.

Finally, AET WORLD's vision is to achieve a more equitable, transparent, and sustainable global financial system. The current financial system may exhibit inequality, preventing certain demographics from accessing financial services. Through the issuance of digital currencies, digital identity management, and the construction of a financial ecosystem, AET WORLD aims to enhance financial inclusivity, allowing more people to enjoy financial services and promoting the prosperity of the global economy.

2.3 Mission

The mission of AET WORLD is to make decentralized finance accessible across the globe.

AET will build a financial ecosystem with a decentralized public chain at its core, providing highly secure, transparent, and scalable financial infrastructure for governments and businesses worldwide. The mission is to make decentralized finance accessible globally, addressing multiple challenges in the financial sector, including security, efficiency, low costs, and cross-chain transactions. AET WORLD primarily serves developing countries, supporting them in sovereign digital asset transformations, digital asset trading, and exchanges, thereby promoting financial innovation and enhancing financial inclusivity.

2.4 Core Values

Our values emphasize innovation, credibility, financial inclusivity, privacy and security, and global collaboration. These values will guide our efforts to create a more open, sustainable, and collaborative global economic landscape.

Innovation and Autonomy

We strongly believe that innovation is crucial for economic progress. AET WORLD encourages participation from users and the community to foster innovation through decentralized means, promoting autonomy and driving progress in the financial sector.

Security and Privacy

User security and privacy are of utmost importance to us. We are committed to establishing a secure digital identity management system to ensure the proper protection of user data and assets, enabling them to engage in financial transactions in a secure environment.

Financial Inclusivity

AET WORLD strives for financial inclusivity, believing that everyone should have equal opportunities to access financial services. Through a decentralized financial system, we aim to eliminate financial barriers and ensure people worldwide can integrate into the global economy.

Global Collaboration

We view global collaboration as essential for addressing global challenges and achieving sustainable development. AET WORLD actively collaborates with other countries and international organizations to collectively tackle

global issues and promote shared economic prosperity.

3. Autonomous Eco-Tech Chain

AET CHAIN (Autonomous Eco-Tech Chain) is the world's first public chain for economic autonomy, aiming to revolutionize the infrastructure of digital currency. It aspires to build a global financial infrastructure for digital currencies and an ecosystem for the global digital financial system. AET CHAIN seeks to establish a digital economic super-financial market and create a platform and system for the circulation, transactions, and settlements of digital currencies in the business sector.

3.1 Introduction to the Technology

In the pursuit of creating a truly decentralized financial ecosystem, AET is engineered to satisfy several essential criteria: executing secure, fast, and efficient transactions at a high throughput, fostering network security through active participant incentives, achieving global scalability with minimal resource consumption, offering a variety of transaction types that extend beyond mere payment processing, providing a flexible infrastructure conducive to the introduction of new core features and the support of sophisticated applications, and ensuring compatibility across diverse devices

AET has evolved from a traditional Proof of Stake approach to embrace the more robust Delegated Proof of Stake (DPoS) model. This paradigm shift enhances network security and decentralization by electing trusted validators, thereby avoiding the pitfalls of nothing-at-stake vulnerabilities. We've retired our original Java-based architecture in favor of a more contemporary, modular framework, which synergizes with Ethereum's rich development landscape while maintaining the sovereignty and efficiency of the Cosmos ecosystem.

In this upgraded system, block production is orchestrated by a rotating cast of elected validators, ensuring block generation every few seconds, which not only reduces latency but also increases transactional capacity. The entirety of AET's token supply is pre-mined, with redistribution mechanisms in place via transaction fees, rewarding validators proportionately to their stake and their performance in maintaining network integrity.

Our commitment to security is dual-pronged, incorporating both the proven resilience of SHA256 hashing and the agility of Curve25519 encryption, a combination that safeguards transactions while optimizing processing power. The architectural advancements also pave the way for processing a significantly higher number of transactions per day, subject to network conditions and validator performance.

AET's DPoS system is conceptualized not just as an infrastructure but as an evolving digital organism capable of adapting to the ever-changing landscape of blockchain needs and possibilities. It's built not only to execute transactions but to empower a wide array of decentralized applications, fostering an ecosystem where innovation is limited only by imagination.

3.2 Overall Architecture

AET's blockchain infrastructure is designed to be robust, agile, and future-proof, supporting a vast array of applications and use cases. Its core architecture integrates the consensus layer, smart contract execution, and an incentive model, all tailored to work harmoniously within the Cosmos ecosystem and utilizing the Tendermint consensus protocol.

3.2.1 Internal Mechanism: Blocks and Block Generation

AET's blockchain architecture is designed to ensure a seamless and secure transaction ledger. Blocks are the fundamental units of this ledger, with a maximum size of 1KB, allowing it to accommodate a substantial volume of transactions. Block headers encapsulate essential information, including version, height, and the generating account's address, ensuring transparency and traceability.

The creation of blocks in AET's blockchain is a competition of consensus and cryptographic prowess. Active accounts vie for the privilege to forge blocks through a process that involves computing a hash value beneath a specified base target value. The base target value dynamically adjusts, ensuring an average block time of 5 seconds, balancing network load and performance.

3.2.2 Consensus Layer: Cosmos and Tendermint

Cosmos Integration

Our blockchain leverages the Cosmos network, specifically utilizing the Tendermint consensus algorithm to ensure high-speed transaction processing and finality. This integration allows us to benefit from the Cosmos ecosystem's interoperability and scalability.

Tendermint BFT Consensus

With Tendermint, we employ a Byzantine Fault Tolerant (BFT) consensus mechanism, which is not only fast and secure but also environmentally friendly compared to traditional Proof of Work systems. Validators are elected by the network's stakeholders to propose and vote on the next block, ensuring a democratic and decentralized process.

3.2.3 Smart Contract Execution: EVM Compatibility

EVM Layer

By integrating the Ethereum Virtual Machine (EVM), our blockchain is compatible with Ethereum's decentralized applications and smart contract ecosystem. Developers can easily deploy existing Ethereum contracts or write new ones using Solidity, enhancing the versatility of our platform.

Ethereum Interoperability

The EVM layer provides a seamless experience for Ethereum users and developers, enabling cross-chain asset transfers and interaction with Ethereum-based services.

EVM Layer

By incorporating the Ethereum Virtual Machine (EVM), our blockchain becomes compatible with Ethereum's rich ecosystem of decentralized applications and smart contracts. Developers can seamlessly deploy existing Ethereum contracts or write new ones in Solidity, making our platform incredibly versatile.

Interoperability with Ethereum

The EVM layer facilitates a seamless user experience for Ethereum users and developers, enabling cross-chain asset transfers and interactions with Ethereum-based services.

3.2.4 Incentive Mechanism: DPoS and Staking Rewards

Delegated Proof of Stake (DPoS)

Transitioning to DPoS, we not only increase the performance of our network but also enhance the security model. Stakeholders elect validators who are responsible for maintaining the network, and in turn, receive staking rewards, aligning the interests of all parties involved.

Staking Rewards

Participants are incentivized through a staking reward system, which distributes transaction fees and block rewards to validators and delegators based on their stake and network participation.

3.3 Consensus Mechanism

In the AET chain, the Cosmos' Tendermint consensus plays a critical role in maintaining network integrity and performance. While it offers several advantages, it's important to consider its characteristics in a balanced perspective.

Characteristics of Tendermint Consensus:

Security and Byzantine Fault Tolerance

Tendermint's primary strength lies in its ability to withstand up to one-third of the network acting maliciously or being non-responsive, thereby maintaining network integrity. However, this level of fault tolerance also implies that a higher degree of malicious activity (exceeding one-third) could potentially compromise the network.

Instant Finality

Tendermint provides instant finality, meaning blocks are finalized as soon as they are created. This eliminates the risk of chain reorganizations but requires a stable and responsive network of validators, as their downtime can significantly affect network performance.

Performance Metrics

Tendermint excels in transaction throughput and low latency in optimal conditions. Nonetheless, the actual performance can vary based on network conditions, validator performance, and transaction complexity.

Energy Efficiency

Compared to PoW mechanisms, Tendermint is more energy-efficient and sustainable. This efficiency, however, comes with trade-offs in terms of the computational and economic models that underpin PoW systems, which some argue contribute to a different level of network security.

Validator Centralization Risks

While the DPoS mechanism in Tendermint promotes a democratic and community-driven validator election process, it also poses a risk of centralization if token holdings are concentrated among a small group of stakeholders.

Development Flexibility

Tendermint facilitates a more accessible environment for developers, though this can sometimes lead to

complexities in balancing between ease of use and maintaining a robust, secure framework.

Through the implementation of the Cosmos' Tendermint consensus, AET aims to strike a balance between efficiency, security, and democratic network governance. It is crucial to continuously monitor and adjust the consensus mechanism to align with the evolving needs of the network and its users, ensuring AET remains a versatile and resilient blockchain platform.

3.4 Transactions

The transaction framework of AET, with its fixed fees and structured types, ensures a robust and orderly digital economy, reflective of AET's innovative blockchain architecture.

3.4.1 Transaction Mechanisms

Mechanics of State and Balance Alteration

Transactions within the AET network are the exclusive mechanism through which accounts can modify their state or balance. Performing discrete functions, each transaction, upon inclusion in a block, becomes an immutable record in the network's history.

Transaction Fees

Transaction fees are critical for the network's economics, circulating AETs back into the ecosystem. Each transaction incurs a fixed fee of 0.03 AET, ensuring that participants contribute to network maintenance proportional to their usage.

Transaction Confirmations

Transactions are initially unconfirmed and attain one confirmation once included in a valid block. With each subsequent block added to the chain, a transaction accrues additional confirmations, reinforcing its permanency in the ledger. Transactions failing to be included before their deadline are deemed invalid and expunged from the transaction pool to maintain network efficiency.

3.4.2 Transaction Lifecycle

Deadlines and Network Propagation

Given the nature of the Tendermint consensus, transactions within the AET network are quickly proposed for inclusion in the next block by active validators. The traditional deadline parameter commonly found in other blockchain protocols is not applicable in the same way since Tendermint provides finality within seconds, ensuring that the network does not retain stale or unconfirmed transactions.

Transaction Types and Evolution

AET supports various transaction types and subtypes to maintain an organized and scalable network architecture. This structured approach allows for the seamless introduction of new functionalities and transaction types as the network and its capabilities evolve, without impacting existing transactions or operations.

3.4.3 Transaction Creation and Validation Process

The process of creating and validating transactions in AET is a crucial step to ensure network integrity and security.

Creating and processing an AET transaction involves the following steps:

- (1) The sender specifies transaction parameters, including type, fee, deadline, and an optional reference to another transaction.
- (2) Validation checks are conducted to confirm the presence of mandatory parameters, the deadline's validity, and dependency on any referenced transaction.
- (3) Upon successful validation:
 - The generating account's public key is derived from the secret passphrase.
 - Account balance checks are performed to ensure sufficient funds for the transaction and fee.
- (4) If validated:
 - A transaction object is created, encapsulating all parameters and a unique ID.
 - The transaction is digitally signed with the sender's private key.
 - A network message containing the encrypted transaction data is broadcast to peers.
 - A server response with the transaction ID signifies successful creation, while parameter validation failures result in error messages.

Validation and Finality

Under the Tendermint consensus mechanism, the validation of transactions is strict and occurs prior to their inclusion in a block. Transactions that pass the validation process are included in the next block and achieve finality as soon as that block is committed to the blockchain. This ensures that only valid transactions are recorded, maintaining the integrity of the AET ledger.

3.5 EVM Integration

AET integrates the Ethereum Virtual Machine (EVM) to enable Ethereum-like functionality within its blockchain. This integration allows AET to execute Ethereum-compatible smart contracts, utilizing the robust Solidity programming language and Ethereum's rich development tooling.

EVM Features and Operation Principles

The EVM on AET operates as a virtual state machine. When a smart contract is executed, it transitions the state of the EVM from one state to another. These state transitions are triggered by transactions, which are cryptographically signed instructions sent by the users.

Benefits for Developers and Users

- (1) **Familiar Development Environment:** Developers can use familiar Ethereum tools like Truffle, Remix, and Metamask for developing and interacting with smart contracts on AET.
- (2) **Smart Contract Support:** AET supports the deployment and execution of smart contracts written for Ethereum,

allowing for a seamless transition of dApps from Ethereum to AET.

- (3) **Resource Efficiency:** The EVM integration allows for more efficient processing of smart contracts on AET, leveraging Ethereum's mature contract execution environment.

Through this approach, AET not only maintains a high level of compatibility with the Ethereum ecosystem but also enhances the attractiveness and practicality of its platform, providing developers and users with a broader range of options and a more flexible development environment.

3.6 Incentive Mechanism

AET's tokenomics is structured to incentivize network participation and ensure long-term sustainability. The model includes transaction fees, staking rewards, and a mechanism for redistributing these rewards among stakeholders.

3.6.1 Transaction Fees and Staking Rewards

Transaction Fees

Fees are levied for processing transactions and executing smart contracts. These fees are used to compensate validators and delegators for their role in maintaining network security and performance.

Staking Reward

Participants can stake their tokens to support network validators. In return, they receive a portion of the transaction fees as rewards, proportional to their stake.

3.6.2 Validator and Delegator Incentives

Validator Rewards

Validators earn rewards for proposing and validating blocks. Their reward is a function of their staked amount and the overall network transaction volume.

Delegator Rewards:

Delegators, who stake their tokens with validators, share in the rewards earned by their chosen validator, incentivizing their participation in network security.

Slashing Mechanism

To ensure network integrity, AET employs a slashing mechanism where validators or delegators can lose a portion of their stakes for dishonest behavior or network destabilization attempts.

3.6.3 Account Balance Dynamics and Security

AET integrates a brain wallet system, where each account's private key is derived from a passphrase using SHA256 and Curve25519 algorithms. Account addresses use Reed-Solomon encoding for error detection and correction,

enhancing security against input errors.

3.6.4 Diverse Balance Types

Account balances are categorized to support the network's incentive structure. For example, effective balance contributes to forging potential, with a maturation period that promotes stability in network participation. Other balance types, such as guaranteed and unconfirmed balances, play a role in transaction validation and the representation of an account's immediate financial state. This complex balance system underpins the tokenomics, rewarding users based on their network support level.

3.7 Interoperability Features

AET's interoperability features are designed to facilitate seamless communication and asset transfers across different blockchain networks. This is achieved through advanced cross-chain protocols and bridge mechanisms that connect AET with other blockchains, enabling the exchange of information and value.

3.7.1 Cross-Chain Communication Capabilities

Bridge Protocols

These protocols enable the transfer of assets and data between AET and other blockchains, both within and outside the Cosmos network.

Smart Contract Interoperability

AET's smart contracts can interact with contracts on other chains, allowing for complex cross-chain applications.

3.7.2 Importance of IBC Protocol for Ecosystem Connectivity

IBC Protocol

The Inter-Blockchain Communication (IBC) protocol is central to AET's interoperability strategy. IBC facilitates secure and reliable inter-chain communication, allowing the transfer of tokens and data across different blockchains in the Cosmos ecosystem.

Ecosystem Growth

By leveraging IBC, AET can connect with a wide range of blockchains, fostering an environment where assets and data can flow freely, thus broadening the possibilities for decentralized applications and services.

3.8 Cryptographic Foundations

AET's cryptographic framework is built upon well-established algorithms that ensure both the confidentiality of

data through encryption and the integrity and non-repudiation of messages through digital signatures. This dual emphasis on security and efficiency is pivotal to maintaining user trust and ensuring the seamless operation of the AET network.

3.8.1 Robust Key Exchange and Signature Mechanisms

AET employs the Curve25519 algorithm for its key exchange mechanism, renowned for its efficiency in generating shared secrets through the elliptic-curve Diffie-Hellman function. For message signatures, AET utilizes EC-KCDSA, which is part of the IEEE P1363a standard, offering a robust balance between operational speed and cryptographic security.

3.8.2 Encryption and Decryption Processes

The process of encrypting data includes shared key calculation, seed generation, key derivation, and encrypting the plaintext using the derived key. The recipient decrypts the data by reversing this process, including recalculating the shared key, reconstructing the seed and key sequence, and decrypting the ciphertext using the derived key.

When encrypting data, the process involves the following steps:

- (1) **Shared Secret Calculation:** Utilizing the private key of the sender and the public key of the recipient, a shared secret is computed via Curve25519.
- (2) **Seed Generation:** A series of seeds are generated through iterative SHA256 hashing of the initial shared secret.
- (3) **Key Derivation:** For each seed, a corresponding key is derived by inverting all bits of the seed and then applying SHA256.
- (4) **Encryption:** The plaintext is encrypted by XORing it with the derived key, producing the ciphertext.

Upon receiving the ciphertext, the recipient reverses the process

- (1) **Shared Key Calculation:** The recipient recalculates the shared key using their own private key and the sender's public key. This ensures that the recipient can generate the same shared key as the sender.
- (2) **Seed and Key Recreation:** The same series of seeds and keys are generated using identical steps to those performed by the sender.
- (3) **Decryption:** The ciphertext is decrypted by XORing it with the derived keys, restoring the original plaintext.

This process not only provides robust security but also optimizes performance by utilizing efficient algorithms, ensuring effective operation even in resource-constrained environments.

3.9 Security Measures and Node Structure

The security of the AET network benefits from its enhanced node categorization and built-in defense mechanisms. By adopting a dual classification of hallmarked nodes and standard nodes, AET enhances the overall security and reliability of the network.

3.9.1 Enhanced Node Classification for Robust Security

Hallmarked nodes

Hallmarked nodes have an additional security level verified by an encryption token generated using the node operator's private key. Once decrypted, the token reveals the associated AET account, introducing a layer of responsibility and trust to the network. The trust level is correlated with the account balance, setting a high threshold for potential attackers and protecting the network from malicious activities.

Standard nodes

Standard nodes contribute to the network's decentralization, while hallmarked nodes provide a verifiable trust anchor.

3.9.2 Inbuilt Defense Against Network-Level Attacks

Each node is equipped with robust defense mechanisms to thwart Distributed Denial of Service (DDOS) attacks, restricting request rates to sustainable levels. This not only protects individual nodes but preserves the overall network's stability and responsiveness.

3.9.3 Scalability Strategies

AET achieves scalability through a combination of innovative architectural solutions and network optimization. The use of sharding technology efficiently allocates workloads, ensuring high throughput as the network expands. Additionally, the integration of the Cosmos IBC protocol and EVM compatibility play crucial roles in enhancing scalability, allowing AET to handle increased transaction volumes and support a growing ecosystem of decentralized applications.

3.10 Conclusion

Technical Strengths Summary

AET stands out for its robust security measures, high scalability, and efficient consensus mechanism. The integration of EVM compatibility and Cosmos IBC protocol positions AET as a versatile and powerful blockchain platform, capable of supporting a diverse range of applications and services.

AET's technical architecture, with its intricate node classification, sophisticated block creation logic, and multifaceted account balance system, exemplifies a blockchain platform built for efficiency, security, and scalability. These mechanisms are crucial to AET's mission to deliver a decentralized economy where trust, participation, and innovation converge.

Alignment with Project Vision

The technical advancements and strategic roadmap of AET align closely with the project's vision of creating a decentralized, efficient, and user-friendly blockchain ecosystem. By continuously evolving and adapting to the latest in blockchain technology, AET is well-positioned to lead in the development of innovative solutions that meet the needs of a dynamic digital economy.

4. AET Ecosystem

4.1 Overview

The mission of the AET Ecosystem is to establish a comprehensive global financial infrastructure based on the concept of tokenomics. It introduces a form of global DAO governance to fully harness the wisdom and power of the community. The ecosystem aims to continuously drive decentralization and innovative development in the global financial system through diversified business constructions. The key businesses that the AET Ecosystem will focus on to support sustainable growth and innovation on a global scale include:

- **AET Chain-Evolution:** AET Chain-evolution is committed to providing sovereign currency transformation services for the third world and developing countries. Through decentralized technological means, it assists countries in issuing stablecoin, establishing independent financial systems, reducing reliance on traditional international currencies, and promoting stable economic growth and sustainable development.
- **AET Chain Business Ecosystem:** The AET Chain Business Ecosystem aims to meet the needs of various financial scenarios. By technologically transforming traditional centralized services, it achieves parallel business processes for multiple institutions, truly realizing global inclusive finance. AET Chain Business, by providing fair financial services, breaks the monopoly of traditional financial institutions and returns financial service benefits to all participants, allowing everyone to share in the dividends of ecosystem growth.
- **AET DAPP Ecosystem:** The AET WORLD ecosystem's DAPP development business is committed to providing developers with a user-friendly and easily accessible development platform, encouraging innovation, and diverse applications. These DAPPs will be based on AET CHAIN, providing users with secure and reliable financial services, digital asset management, and smart contract applications.
- **AET Wallet:** AET Wallet is the digital wallet service in the AET WORLD ecosystem, designed to offer users a secure and convenient tool for managing digital assets. It supports various cryptocurrency storage and transactions, providing users with highly secure identity authentication and transaction authorization features.
- **AET Exchange:** AET Exchange is the digital asset trading platform in the AET WORLD ecosystem, aiming to provide global users with secure, efficient, and reliable digital asset trading services. The exchange will support trading pairs for multiple cryptocurrencies and offer high liquidity and a stable trading environment.
- **AET Gaming:** AET Gaming is the digital gaming platform in the AET WORLD ecosystem, dedicated to combining blockchain technology with the gaming and entertainment industry. It aims to provide global players with a secure and fair gaming experience. By incorporating blockchain technology, AET Gaming will offer players a trusted gaming environment and a mechanism for digital asset transactions.
- **AET ConnectSphere:** AET ConnectSphere is the AET SocialFi platform, designed to incentivize community members' participation and contribution, promoting the mutual development and governance of the ecosystem. The community will provide rich educational resources, social interactions, and incentive mechanisms, encouraging community members to engage in the construction and development of the AET WORLD ecosystem.
- **AET Community Care Plan:** AET Community Care Plan is the philanthropic sector within the AET WORLD ecosystem, dedicated to supporting and participating in a variety of broad social welfare and charitable projects. This plan includes support for the United Nations' poverty alleviation program and encompasses various other charitable activities, aiming to drive global sustainable development and social

welfare. AET allocates 5% of TOKEN resources specifically to fund these projects, reflecting the company's social responsibility and commitment to global philanthropy.

4.2 AET Chain-Evolution

The core of the AET Chain-evolution project lies in leveraging AET public chain technology to support third-world countries in issuing stablecoin on the AET Chain. This strategic initiative not only provides these countries with a stable, fast, and secure digital currency and financial infrastructure but also ensures a high-quality trading environment. The project's objective is to empower these countries to modernize their financial systems and foster decentralization and innovation in the financial sector through this innovative approach. AET Chain-Evolution represents a commitment to global cooperation and financial inclusivity, demonstrating the potential and determination of the AET public chain in driving global economic and social sustainable development.

4.2.1 Implementation of AET Chain-Evolution

The implementation process of AET Chain-evolution is multi-faceted and complex, involving several key areas, including stablecoin issuance, on-chain identity authentication, digital currency management, and smart contract support.

4.2.1.1 Issuance of National Stablecoin

One of the primary objectives of AET Chain-evolution is to support national governments or financial institutions with special financial licenses in issuing stablecoin. These stablecoin will serve as officially approved digital currencies subject to regulation and government approval. Unlike traditional banknotes, the value of these stablecoin will not be directly pegged to the national currency but will be supported by their independent reserve mechanisms. This independence is designed to address the challenges of local currency value fluctuations and preservation while ensuring the stability of stablecoin.

Stablecoin will be issued on the AET public chain to ensure a high level of transparency and security in transactions. AET Chain-evolution aims to transform the financial ecosystem by providing reliable stablecoin for third-world countries, reducing currency volatility risks, fostering economic growth, and promoting broader financial inclusivity.

4.2.1.2 Identity Verification and KYC

The identity verification and KYC (Know Your Customer) procedures of AET Chain-evolution involve a stringent process of uploading user identity data to the blockchain through collaboration with local authorities. The core principle behind this process is to legally recognize and authorize the user's identity data by authorized legal entities, creating a digital identity to ensure its legitimacy. Only citizens officially certified by the authorities or users meeting specific national requirements are eligible to receive stablecoin. This process is executed automatically through smart contracts, contributing to addressing credit issues in financial transformation. It establishes a more secure, legal, and globally applicable digital identity system, instilling confidence and convenience for users. Additionally, it provides a solid foundation for the sustained development of the digital

economy.

The significance of this identity verification and KYC process includes:

- **Establishing Credit:** Through the KYC process conducted in collaboration with official entities, users' digital identities gain official recognition, contributing to the establishment of their credit records. This makes it easier for them to access financial services, as these records can be used to verify their credibility.
- **Data Security and Privacy Protection:** Users' digital identity data is highly secured by blockchain technology, ensuring the safety and privacy of the data. This reduces the risks associated with identity information leakage and misuse.
- **Global Universality:** With digital identities, users can legitimately use stablecoin within the ecosystem, promoting liquidity and connectivity in the global financial market. This facilitates global financial market flow and interconnectivity.

4.2.1.3 Application of Stablecoin

Stablecoin play a crucial role in various scenarios, including but not limited to the following aspects:

- **Cross-Border Payments:** Stablecoin can simplify and expedite international currency transactions, reduce remittance costs, and enhance payment traceability and transparency.
- **Local Transactions:** As an alternative currency, stablecoin can address the issue of local currency value instability. Residents can use stablecoin in daily transactions and payments, maintaining the value of their assets.
- **E-commerce and Online Payments:** Merchants and consumers can use stablecoin for online shopping and transactions, avoiding the impact of currency fluctuations and providing a better shopping experience and payment convenience.
- **Financial Services:** Users holding stablecoin can participate in lending and other financial services, expanding financial inclusivity and providing more financial choices.
- **Investment and Savings:** Stablecoin, as a relatively stable investment tool, allow users to preserve asset value while enjoying the convenience of digital currencies. Users can also engage in mining and staking activities for additional income.

4.2.2 Potential Impacts

AET Chain-evolution will continue to drive financial innovation and upgrade in third-world countries, providing these nations with more financial autonomy and opportunities. This innovative initiative will contribute to the stability and sustainable development of the global economy, generating profound impacts in various areas:

- (1) **Symbiosis of Stablecoin and National Economies:** Through stablecoin, these countries can significantly reduce the operational and maintenance costs of traditional fiat currencies. This not only releases more resources for economic development but also promotes the modernization of the national financial system and the digital transformation of the economy. The introduction of stablecoin offers these developing countries a more efficient and modern means of payment.
- (2) **Bidirectional Economic Incentives:** To achieve a win-win situation for economic and social development,

the saved funds are invested in two crucial areas. Firstly, these funds are directly fed back to citizens in the form of welfare, subsidies, etc., enhancing people's quality of life. Secondly, funds are invested in nationally significant development areas such as education, healthcare, infrastructure construction, etc., thereby driving the country's long-term economic and social progress.

- (3) **Maintaining National Financial Stability:** Through the issuance and management of digital currencies, AET Chain-evolution can assist countries in stabilizing their currency values, reducing the risks of inflation and currency depreciation.
- (4) **Anti-Corruption Measures:** By facilitating open and transparent financial transactions, AET Chain-evolution can reduce the risk of corruption and enhance government transparency.
- (5) **Promoting International Cooperation:** Through the global universality of digital currencies, AET Chain-evolution can facilitate international trade and cooperation, helping the international community better address global challenges.

4.3 AET Chain Business Ecosystem

4.3.1 Empowering Global Inclusive Finance

The AET Chain Business Ecosystem aims to meet the needs of various financial scenarios by leveraging technology to transform traditional centralized services. It establishes a parallel business process involving multiple institutions, truly realizing global inclusive finance. AET Chain Business, through decentralized models, revolutionizes traditional financial processes, establishes new peer-to-peer trading and cooperation models across regions, domains, entities, and accounts. This addresses the challenges of high customer acquisition costs, weak risk control capabilities, and data verification costs in traditional finance.

4.3.2 Innovative Blockchain Projects and Hyper Exchange Protocol (HEP)

As a "future top blockchain project" and "emerging next-generation public chain," AET Chain Business innovatively develops the Hyper Exchange Protocol (HEP) as the infrastructure for protocol economics. By redefining organizational structures, collaboration methods, and incentive mechanisms through blockchain technology, it ultimately realizes the inclusive value proposition of "everyone should benefit from economic growth." Decentralization facilitates a novel e-commerce system. The Chain Business ecosystem provides a comprehensive blockchain solution for online retailers, attracting participation from business organizations, angel investors, and Chain Business founders. These alliances from the pre-era of traditional e-commerce not only streamline Chain Business's business logic but also bring significant user traffic, making business operations more efficient.

4.3.3 Blockchain-Enhanced E-commerce

AET Chain Business combines blockchain technology and financial services, aiming to apply state-of-the-art blockchain technology to specific scenarios in consumer finance and supply chain finance. This transformation aims to reshape the existing e-commerce ecosystem, creating a blockchain-powered e-commerce new ecosystem

characterized by abundant traffic, trustworthy information, and transparent rules.

With the launch of AET Chain Business, the community will immediately gain a user base in the millions. Simultaneously, a plethora of SKUs and a multitude of competitively priced mainstream products will join. Through cross-ecosystem collaboration, AET Chain Business users will quickly collect personal consumption data and credit information. They can leverage transaction data to enhance trust within the distributed financial ecosystem of AET Chain Business, gaining access to lower interest rates and higher credit limits. The integration of fund flow and commodity flow on the blockchain propels traditional e-commerce into a new era of inclusive finance.

4.3.4 TOKEN Issuance Mechanism

In AET's TOKEN issuance mechanism, 25% of TOKENs will be released to Chain Business ecosystem merchants and consumers through consumption mining. This novel business model, where "consumption gains computing power, and computing power participates in mining distribution," tightly integrates consumer interests with the platform. It constructs a new consumption ecosystem, allowing consumers and the platform to share in the growth dividends, enjoying greater benefits.

4.4 AET DAPP Ecosystem

AET WORLD is dedicated to creating a vibrant DAPP ecosystem that not only sparks the creativity of the developer community but also acts as an incubator for innovative ideas. Utilizing the powerful AET CHAIN public chain, we provide a highly secure and scalable platform, enabling developers to freely explore and implement their innovative applications. In AET WORLD, DAPP is not only a core component of the ecosystem but also a bridge connecting users, developers, and blockchain technology to collectively shape an interconnected, symbiotic digital world. Here are the core features of AET DAPP:

- **Comprehensive Functionality Support:** AET DAPP ecosystem not only provides fundamental features such as building, compiling, and testing but also offers a comprehensive development environment. Functions like automatic deployment of smart contracts, client (UI) development, DApp distributed hosting (IPFS/Swarm), peer-to-peer communication (Whisper), and online IDE and code debugging (Cockpit) enable developers to complete all development tasks on an integrated platform.
- **Developer-Friendly:** A complete set of development tools and documentation simplifies the DAPP development process, making it easy for both newcomers and experienced developers to quickly get started and transform their ideas into reality.
- **Security and Performance:** Combining the Tendermint consensus mechanism and EVM compatibility layer provides a secure and efficient runtime environment for DAPPs, ensuring fast response times and tamper-proof data.
- **Cross-Chain Interoperability:** Through the integration of the Cosmos IBC protocol, AET DAPP ecosystem allows communication and asset transfer between different blockchains, expanding the potential market and user base for DAPPs.
- **Economic Incentive Mechanism:** Through consumption mining and computing power distribution mechanisms, DAPPs can not only reward users but also provide developers with new income streams, creating

a mutually beneficial ecosystem.

- **Highly Visual Interface:** AET DAPP offers a highly visual development interface. Real-time monitoring information allows developers to have a clear understanding of the DAPP development status. Additionally, the DApp's Web server and Cockpit Web UI pages further enhance the convenience and efficiency of DAPP development.
- **Smart Contract Debugging Capability:** In AET DAPP, with the help of the online debugging feature provided by Cockpit, developers can easily debug smart contracts. The built-in editor in Cockpit aligns with the local development directory, providing developers with a user-friendly debugging environment.

4.5 AET Wallet

AET Wallet is a crucial component of the AET WORLD ecosystem, carrying the important mission of building digital financial infrastructure and driving a new financial order. As the digital wallet service within the AET WORLD ecosystem, AET Wallet is committed to providing users with a secure and convenient tool for managing digital assets. It supports storage and transactions of various cryptocurrencies and ensures a comprehensive digital asset management experience through highly secure identity authentication and transaction authorization features.

In addition to conventional digital asset storage and transaction functions, AET Wallet offers a range of value-added services, including but not limited to:

- **Multi-Chain Asset Management:** AET Wallet supports the management of various mainstream blockchain assets. Users can conveniently manage different types of cryptographic assets on a single platform, enhancing the convenience and efficiency of asset management.
- **Secure Identity Authentication:** AET Wallet employs advanced encryption technology and secure authentication mechanisms to ensure the comprehensive protection of user identity information and transaction data. Users can confidently use AET Wallet for secure storage and transactions of various digital assets.
- **Transaction Authorization Management:** To enhance the security and credibility of transactions, AET Wallet provides a rigorous transaction authorization management mechanism. This ensures that each transaction undergoes explicit user authorization, avoiding unauthorized transaction risks and security vulnerabilities.
- **Smart Asset Analysis:** AET Wallet offers smart asset analysis functionality, helping users gain a comprehensive understanding of their asset status and market trends. It provides customized asset management advice, assisting users in formulating more effective investment and management strategies.
- **Convenient Payment Functionality:** AET Wallet includes built-in convenient payment functionality, allowing users to quickly and securely conduct online payments using digital assets, providing a more convenient and efficient consumption experience.

By continually enhancing security and convenience, AET Wallet aims to be the preferred tool for users to manage digital assets. It provides a comprehensive digital asset management solution, empowering users to achieve wealth appreciation and asset preservation.

4.6 AET Exchange

AET Exchange is a digital asset trading platform within the AET WORLD ecosystem, designed to provide secure, efficient, and reliable digital asset trading services to users worldwide. The exchange will support trading pairs of multiple cryptocurrencies, offering diversified digital asset trading services globally with high liquidity and a stable trading environment.

Diversified Exchange Matrix

AET Exchange plans to invest in, incubate, and establish at least 10 digital asset exchanges. These exchanges will operate and be managed based on individual country, language, and cultural differences, forming a multinational, multilingual, and multicultural exchange matrix. This initiative will establish a solid foundation for the global free circulation of digital assets within the AET WORLD ecosystem.

Core of Global Financial Infrastructure

As a core component of the AET global financial infrastructure, AET Exchange's management structure adopts a "dual-wing" model with a decentralized team and a decentralized community. This model aims to complement the strong management team with an active community team, improving the efficiency of ecosystem projects and fully leveraging the resources and power of the community.

Income Distribution and Ecosystem Incentives

The operation of AET Exchange will bring stable income to the AET ecosystem, including revenue from transaction fees, listing fees, ecosystem membership fees, and marketing fees. These revenues will be proportionally distributed to different participants within the ecosystem, including AET global partners, AET global city nodes, and AET global super nodes. Through this incentive mechanism, the AET ecosystem will motivate more people to actively participate in project construction, driving the continuous development of the ecosystem.

4.7 AET Gaming

AET Gaming stands as the digital gaming platform within the AET Ecosystem, combining blockchain technology with the gaming and entertainment industry to offer a secure and fair gaming experience to players worldwide. By integrating blockchain technology, AET Gaming not only provides a diverse selection of games, covering various genres such as role-playing, strategy, competitive, and casual, but also offers a unique blockchain value-added feature. For instance, players can own and trade in-game NFT assets or participate in decentralized finance (DeFi) games to earn tokens.

Core Features of AET Gaming:

- **Diverse Game Types:** AET Gaming is committed to providing a diverse array of game choices, encompassing role-playing, strategic adventures, multiplayer competitive battles, and casual entertainment. Regardless of players' preferences, AET Gaming ensures that they find game types that align with their preferences.
- **Interactive Community Building:** AET Gaming places importance on the construction and development of player communities, encouraging interaction, communication, and collaborative competition among players.

By organizing various online and offline events and competitions, AET Gaming provides players with opportunities to showcase their skills and exchange experiences, fostering a community atmosphere of mutual assistance and camaraderie.

- **Continuous Innovation and Updates:** Leveraging the support of the AET CHAIN public chain and the user-friendly AET DAPP development environment, AET Gaming continuously introduces new gameplay and features, ensuring the freshness and appeal of game content. Through ongoing innovation and development, AET Gaming delivers constant game updates and optimizations, providing players with consistently enriched gaming experiences.
- **Reward and Honor Mechanism:** To incentivize player participation and contributions, AET Gaming establishes a generous reward and honor system. Players can showcase their abilities and skills by participating in various competitions and events, earning substantial rewards and honors, while also sharing the joy of gaming with fellow players.

4.8 AET ConnectSphere

AET ConnectSphere emerges as a social finance platform, seamlessly integrating the decentralized features of blockchain technology with the interactivity of social networks. Its primary goal is to create a digital community space based on mutual assistance and prosperity through economic incentives and autonomous governance mechanisms. AET ConnectSphere's core feature lies in its ability to transform community participation into economic value, motivating members to actively engage in community building and governance. The platform supports social interaction and content sharing, providing members with opportunities to participate in decision-making, contribute content, and collaborate, all while reaping tangible economic rewards.

Key Features of AET ConnectSphere:

- **Decentralized Social Economy (SocialFi):** AET ConnectSphere combines the participation of social networks with decentralized financial mechanisms, offering community members opportunities to gain real economic returns through interaction, creative endeavors, and participation.
- **Autonomous Community Governance:** AET ConnectSphere advocates and practices a community-driven governance model. Members can participate in platform governance decisions, including project proposals and voting decisions, based on their token holdings. This ensures community autonomy and the sustainability of the ecosystem.
- **Value-Driven Content Creation System:** The platform establishes incentive mechanisms to encourage and reward high-quality content creation and sharing. Through blockchain technology, it ensures that each contributor's labor yields a fair and just reward.

4.9 AET Community Care Plan

The AET Community Care Plan stands as a philanthropic initiative within the AET WORLD ecosystem, dedicated to supporting and participating in a wide range of social welfare and charitable projects. This plan goes beyond supporting the United Nations poverty alleviation programs, encompassing various other charitable activities aimed

at driving global sustainable development and societal well-being. AET allocates a dedicated 5% of TOKEN resources to fund these projects, demonstrating corporate social responsibility and a commitment to global philanthropic endeavors. The main focus areas include:

- (1) **United Nations Poverty Alleviation Collaboration:** A portion of the TOKENs from this plan is specifically earmarked to support the United Nations' poverty alleviation projects. These projects aim to improve education, healthcare, and infrastructure in impoverished regions globally.
- (2) **Diversified Charitable Project Investments:** In addition to poverty alleviation programs, the AET Community Care Plan also invests in diverse charitable projects across environmental protection, health and medical initiatives, educational development, and responses to humanitarian crises.
- (3) **Community Mobilization and Engagement:** AET encourages its extensive user base to actively participate in these charitable projects through volunteer services, donations, and promotional activities. This collaborative effort aims to drive positive societal change.
- (4) **Transparency and Accountability:** AET ensures transparency and accountability for all philanthropic funds and projects. Every fund flow and project progress will be recorded on the AET Chain to ensure the highest levels of transparency and traceability.
- (5) **Building Long-term Social Impact:** The AET Community Care Plan not only focuses on short-term relief but also commits to building sustained social impact through long-term investments and collaborations, contributing to the resolution of global issues.

Through the AET Community Care Plan, the AET WORLD ecosystem transcends being merely a technological platform to become an actively engaged community in global philanthropy, driving societal progress and sustainable development. This plan underscores AET's profound understanding of social responsibility and commitment, laying a solid foundation for constructing a better, more equitable, and harmonious world.

5. Tokenomics

5.1 Overview

The AET TOKEN (Autonomous Eco-Tech Token) serves as the foundational token for the Global Economic Autonomous Entity, known as AET WORLD. AET TOKEN is the native token of the AET Chain and will be provided to users through a mapping process upon the launch of the public chain. This token plays a crucial role within the entire AET Ecosystem, facilitating the operation and development of the ecosystem.

Basic Information

Token Name: Autonomous Eco-Tech Token

Token Abbreviation: AET

Total Supply: 1 billion tokens

Initial Circulating Supply: 20 million tokens

5.2 Issuance Mechanism

The issuance model of the AET TOKEN emphasizes ecological sustainability. With a total supply of 1 billion tokens, a dual issuance mechanism involving block rewards and asset management issuance is employed. This approach, based on ecological development, aims to ensure fair distribution of tokens and reward user participation while providing long-term support for the prosperity of the ecosystem.

5.2.1 AET Tendermint-DPoS Block Reward Mechanism

In the AET Ecosystem, a unique consensus mechanism combining Tendermint and Delegated Proof of Stake (DPoS) is employed. With a total supply of 1 billion AET tokens, 500 million AET tokens will be distributed as block rewards through this integrated consensus mechanism. This mechanism combines the efficiency and stability of Tendermint with the decentralization features of DPoS, optimizing network validation and maintenance while enhancing system security and performance.

Operation of the Tendermint-DPoS Consensus Mechanism:

- (1) **Delegated Node Election:** Holders within the AET community can elect delegate nodes responsible for transaction validation and block generation. The election process is based on the voting weight of token holders, ensuring decentralization and security of the network.
- (2) **Transaction Validation and Block Generation:** Elected delegate nodes utilize the Tendermint algorithm to efficiently validate transactions and create new blocks containing these transactions. These blocks are subsequently added to the AET chain as part of the transaction records.
- (3) **Block Reward Allocation:** As a reward for their contribution to network maintenance and transaction validation, delegate nodes receive AET tokens. These rewards may include newly issued tokens and

transaction fees, aiming to incentivize delegate nodes to continually support the network.

Goals and Advantages:

- (1) **Decentralization and Security:** The combination of DPoS and Tendermint mechanisms maintains the decentralized nature of the network while ensuring security and credibility through community elections.
- (2) **Efficiency and Scalability:** The Tendermint algorithm enhances transaction processing speed and network responsiveness, while the DPoS mechanism allows the network to easily scale to accommodate a large number of transactions.
- (3) **Incentives and Participation:** Through block rewards, the mechanism encourages community members to actively participate in the maintenance and development of the network, ensuring the vitality and long-term health of the network.

5.2.2 Transaction Minting Mechanism

In addition to the 500 million tokens generated through DPoS block rewards, another 500 million AET tokens will be generated through the ladder algorithm transaction minting mechanism. This mechanism aims to encourage and reward users for active trading behavior.

Operation:

- (1) **Asset Management Support:** The AET Foundation entrusts Swiss-based Matterhorn Consulting AG to establish an asset management system to maintain the initial market value of the network. This system includes market management, risk control, and AI algorithm support to stabilize and enhance the token's value. Matterhorn Consulting AG, a global consulting and asset management company, pioneered the "AI ladder algorithm." This algorithm is the core of the AET token issuance mechanism, predicting and stabilizing the token's value through a series of complex mathematical and economic models.
- (2) **Transaction Minting:** Holders can earn new AET tokens by participating in transactions. These tokens are automatically minted through an AI algorithm based on user activity and trading volume. User activity is measured by factors such as holding period, trading frequency, and trading volume.
- (3) **Reward Mechanism:** Transaction minting rewards users for actively participating in the ecosystem's trading activities. The issuance of reward tokens will be directly proportional to the trading activity.

Goals and Advantages:

- (1) **User Incentives:** The transaction minting mechanism provides rewards to token holders, encouraging active participation in the AET network's ecosystem. This helps drive ecosystem activity, providing users with opportunities to acquire additional tokens and increasing user engagement. This contributes to the expansion of the ecosystem and increased user participation.
- (2) **Asset Management Support:** Through the support of the asset management system, the AET network can maintain initial market value, reduce price volatility, enhance token stability, and attract more users and investors.
- (3) **AI Algorithm Minting:** The application of AI algorithms ensures the fairness and transparency of token minting. User rewards are automatically calculated by the algorithm, eliminating the need for manual intervention.
- (4) **Sustainable Issuance:** The minting mechanism supports the ecosystem's sustainable issuance. The issuance of

new tokens occurs in a block-by-block manner, meaning that token issuance is correlated with ecosystem development and the growth of transaction volume. This mechanism ensures that ecosystem development will lead to an increase in token supply, helping to meet growing demand.

- (5) **Fair Distribution:** Through participation in the transaction minting mechanism, users not only gain more tokens but also have the opportunity to contribute to ecosystem development. It reflects AET WORLD's commitment to supporting the construction and prosperity of the ecosystem while rewarding active contributors. In this model, AET TOKEN plays a crucial role in the ecosystem's development, serving as an incentive tool for ecosystem participants and a key component of the ecosystem.

5.3 Token Allocation

The AET TOKEN allocation plan is designed to achieve the sustainable development of the AET WORLD global token ecosystem. The allocation includes Asset Management Minting, Consumption Mining, Initial Issuance, Community Care Plan, Technical Team, and the Ecosystem Foundation and Community Incentives. This comprehensive allocation model aims to balance various aspects of the ecosystem, encouraging users to actively participate in the development of the AET ecosystem, achieving prosperity and sustainability.

- **50% Transaction Minting:** The AET Foundation has entrusted Matterhorn Consulting AG of Switzerland to establish a comprehensive asset management system. This system includes market management, risk control, and support from AI algorithms. The goal is to maintain the stability of AET tokens. Through the innovative AI ladder algorithm and transaction minting mechanism, 50% of AET tokens are generated by incentivizing and rewarding users for active trading behavior. This mechanism provides participants in the AET ecosystem with more incentives and contributes to the overall value of AET tokens.
- **25% Consumption Mining:** Users receive mining rewards by making purchases through merchants within the AET chain ecosystem. The consumption mining mechanism not only encourages users' active consumption behavior but also promotes the thriving development of AET's ecosystem business activities. This mechanism encourages more users to participate in the AET ecosystem, sharing in its developmental dividends.
- **2% Initial Issuance:** This allocation supports the initial issuance of AET to provide sufficient liquidity, ensuring an initial supply of tokens to establish the foundation for the healthy development of AET.
- **5% Community Care Plan:** This portion serves as a dedicated public welfare and poverty alleviation fund for AET, supporting various social responsibility projects, including but not limited to the United Nations' poverty alleviation program. Through social public welfare projects, we aim to create more opportunities for global communities, promote sustainable development, and achieve a more just and inclusive future.
- **10% Technical Team:** This portion of tokens is intended to incentivize and support the AET technical team to ensure that the project remains at the forefront of technological innovation and development. By providing this proportion of token rewards to the technical team, we aim to attract highly seasoned technical professionals, encouraging them to play a crucial role in the construction and maintenance of the AET ecosystem.
- **8% Ecosystem Foundation and Community:** This allocation is used to support the development of the AET ecosystem and community construction, ensuring the participation and sharing of a large number of community members. This includes:

- 1% Ecosystem Foundation: Used for the overall development of the AET WORLD ecosystem, including strategic investments, strategic financing, global ecological layout, and financial ecological expansion. The use of the overall foundation quota will be publicly disclosed to the entire community, subject to community oversight.
- 1% Community Rewards and Ecosystem Operations: This portion of tokens will be used for rewards within the AET WORLD ecosystem community and overall ecosystem operations. In the early stages, the founding team is responsible for using this quota, but as the community governance system matures, it will gradually be transferred to community management. This portion of tokens is mainly used for community development and the expansion of the global ecosystem. Specific usage will be publicly disclosed to the entire community, subject to community oversight, and disclosure and confidentiality levels will be specified according to community governance regulations.
- 4% Main Chain Reserve: This portion of tokens will primarily be used for the development of the AET WORLD Chain main chain ecosystem and global incentives. The specific usage rules will be formulated according to the main chain plan. The allocation of the main chain will be publicly disclosed to the entire community, subject to community oversight, to jointly build the "on-chain governance" global ecosystem.
- 2% Ecosystem Security Fund: This portion of tokens is mainly used for the AET WORLD ecosystem security fund to cope with major unforeseen events or compensation, ensuring the orderly and long-term development of the ecosystem. The use of the ecosystem security fund will be publicly disclosed to the entire community and will only be used for ecosystem security, subject to community oversight.

5.4 Token Use Cases

Payment of Transaction Fees: AET TOKEN can be used to pay various transaction fees on the AET WORLD network, including smart contract execution, transaction verification, and more. This provides users with the necessary resources to use the AET WORLD network.

- (1) **Ecosystem Incentives:** AET TOKEN is used to reward ecosystem participants such as miners, node operators, and developers. This reward mechanism encourages more people to participate in and support the development of the AET WORLD network.
- (2) **Staking for Profits:** Staking AET TOKEN can yield rewards; the more tokens staked and the longer the staking period, the greater the rewards.
- (3) **Participation in DeFi Profits:** Holding AET TOKEN allows participation in DeFi ecosystems, such as liquidity mining, collateralized lending, and more.
- (4) **Cross-Chain Transactions:** AET TOKEN can be used for cross-chain transactions, enabling interoperability with other blockchain networks or digital assets. This strengthens the connection between the AET WORLD network and other ecosystems.
- (5) **Governance Voting:** AET TOKEN holders can use their tokens for governance voting, influencing the development direction, rules, and decisions of the AET WORLD network. This provides the community with decision-making opportunities.

- (6) **Discounted Transactions:** Some merchants and service providers may accept AET TOKEN as a payment method with discounts for purchasing goods and services. This expands the utility of the token.

5.5 Token Holder Rights

Token holders enjoy various rights that extend beyond economic benefits, fostering an active and engaged community. These rights contribute to the positive consensus, driving the growth and prosperity of the ecosystem.

- **Voting Rights and Governance:** Token holders can utilize their voting rights to participate in the governance of the ecosystem. They can support proposals and decide on the token's use, such as allocations for ecosystem projects, governance fees, charitable donations, etc. This ensures reasonable token utilization and community consensus.
- **Dividend Rights and Economic Incentives:** Token holders share in the economic benefits of the ecosystem through dividend rights. Benefits may come from inflation rewards, profit dividends from ecosystem projects, and other sources. This provides direct economic incentives, encouraging active support and participation in the ecosystem.
- **Participation Rights and Ecosystem Development:** Token holders can actively participate in ecosystem projects, community development, and decision-making. They can propose ideas, share opinions, or even participate in project development to drive the growth and strength of the ecosystem.

5.6 Consumer Mining Mechanism

The consumer mining mechanism of AET Token aims to elevate digital payments to a new level, where consumers not only actively participate in digital payments but also receive tangible economic returns with each transaction. This mechanism sparks enthusiasm for engaging in digital payments, enhancing their interest through rewarding consumer behavior. It also holds the potential to reshape traditional business models, making shared benefits between consumers and businesses possible.

- **Mining through Digital Payments:** AET Token's consumer mining mechanism treats consumer transactions as mining activities. Users no longer need high-performance computers or significant electricity; they can participate in mining simply by engaging in digital payments, lowering the barrier for everyone to earn AET Tokens.
- **Rewarding Consumption Volume:** Each transaction made by consumers will endow them with corresponding computing power. Merchants contribute a portion of each transaction revenue as advertising and marketing expenses, which are used to reward both consumers and merchants. Users and merchants can mine daily based on their computing power, gaining additional rewards. This computing power represents their level of activity on the platform and the speed of mining.
- **Rewards as Equity:** AET Token rewards earned by users can be used for further consumption or exchanged for other digital assets. This transforms digital payments into a valuable investment, providing more freedom in payment choices.
- **Precise Consumer Experience:** In our consumer mining pool, users can customize consumption strategies based on their geographical location, obtaining more accurate travel information. Users can also apply to add

limitless blockchain e-commerce platforms to the shopping and consumption process, unlocking more mining opportunities.

- **Repurchase and Burn of Ecosystem Tokens:** Merchants allocate a certain percentage of advertising and marketing expenses to repurchase and burn ecosystem tokens. This helps increase the value of tokens while driving the development of the ecosystem.
- **Creating Shared Value:** AET WORLD encourages users to actively participate in the development of the Asian ACU community, share valuable information, and expand the ecosystem by rewarding such behavior. Users can earn AET WORLD rewards by sharing content related to digital payments and participating in community activities. This makes users an integral part of the ecosystem, collectively driving the growth of the digital economy.

As the AET Token evolves and the consumer mining mechanism continues to improve, we may witness the emergence of a new consumer culture. Consumers may willingly engage in digital payments and share their shopping experiences, not only to earn more AET Tokens but also to provide supply chain businesses with more data and feedback to improve their products and services. This transformation will enable every participant in the business network to shift from a balance of interests to shared benefits, creating a more dynamic and interactive economic system.

6. Governance

6.1 DAO Governance Process

A comprehensive DAO governance plan includes the following processes:

Establishment of Governance Rules and Eligibility Criteria

- **Determining Governance Eligibility:** Setting up staking users as governance participants, allowing only users holding a certain amount of AET WORLD and staking it to have voting rights.
- **Voting Weight:** Calculating voting weight based on the staking amount of each staking user—more staked tokens result in higher voting weights.

Proposal Initiation

- Any staking user meeting the conditions can initiate a proposal, with the condition being a deposit of 1,000,000 AET WORLD, automatically refunded if the proposal passes, and confiscated if it fails.
- Proposals should include clear objectives and specific details about modifying system parameters for other staking users to understand the proposal's content and impact.

Voting Process

- **Setting Voting Deadline:** The voting period can be set to one week to ensure staking users have enough time to vote.
- **Voting Rights:** Staking users can vote during the voting period based on their staking amount, with each staking user's voting weight determined by their staking amount.
- **Recording Votes:** Recording the votes for each proposal, including both supporting and opposing votes.

Conditions for Proposal Approval

Setting Conditions for Proposal Approval.

Conditions for a proposal to pass may include:

- Requiring a certain percentage of the total staked AET WORLD to participate in the vote, e.g., 20% of the total staked AET WORLD for the vote to be valid.
- Requiring a certain percentage of the voting amount to support the proposal, e.g., needing more than 50% of the voting amount to pass for it to be effective; otherwise, it is considered not passed.

Modification of System Parameters

- If the conditions for approval are met, execute the operation to modify system parameters based on the voting results or make significant decisions.
- Ensure timely execution of modifying system parameters after a vote passes to allow decisions to take effect promptly.

Transparency and Feedback

- The governance process should be transparent, with all governance activities and proposal statuses made public to all staking users.

- Provide voting results and feedback on decision execution, allowing staking users to understand the outcomes and impacts of decisions.

Continuous Optimization and Adjustment

- Governance plans should undergo continuous optimization and adjustment, continually improving governance mechanisms and rules based on actual situations and user feedback.

6.2 Executive Committee

In AET WORLD, we are committed to realizing the concept of Decentralized Autonomous Organization. To achieve this, we have established an Executive Committee responsible for the governance and strategic direction of the platform. Here are the details about the Executive Committee:

Executive Committee Size

The size of the Executive Committee is determined based on the specific needs of platform operation and development. The number of committee members can be set at 7, 9, 11, or 13. Proposals regarding the committee size can be put forth by the Nominating Committee or any member of the Executive Committee. The size of the Executive Committee should ensure sufficient professional skills and diversity, representing the interests of different stakeholders to effectively oversee the platform's operations while complying with relevant laws and regulations.

Qualifications for Executive Committee Members

Members of the Executive Committee should possess the following key characteristics to ensure their ability to provide effective strategic guidance to the platform:

- **Honesty, Objectivity, Judgment, and Leadership:** Members should participate in Executive Committee affairs with honesty and objectivity, demonstrating good judgment and leadership skills.
- **Professional Skills and Experience:** Members should have relevant professional skills and experience to provide advice and guidance on the foundation's development strategy.
- **Independent Analysis and Investigative Abilities:** Members should have the ability for independent analysis and investigation, efficient collaboration, and constructive contributions to the Executive Committee's discussions and deliberations.
- **Value Enhancement:** Members should be dedicated to enhancing the long-term value of the AET WORLD ecosystem for all stakeholders.
- **Deep Understanding of Platform Operations, Strategy, and Challenges:** Members should possess a profound understanding of AET WORLD team, blockchain operations, strategy, and challenges.
- **Time and Energy Commitment:** Members should be willing and able to invest sufficient time and energy to fulfill their responsibilities as Executive Committee members and complete the work assigned by the committee.
- **Non-disqualification:** Members must not be recognized as disqualified individuals, meaning they should not be deemed to violate criminal law by relevant legal authorities, should not violate KYC certification requirements, and should not be sued under other relevant laws and regulations.

Term of Office

The term of office for Executive Committee members is typically one year but may be extended or shortened based on specific circumstances. Early investors, team members, AET WORLD ecosystem contributors, and artists are eligible to vote and elect members.

Termination of Term

The qualification of Executive Committee members will be immediately terminated under the following circumstances:

- Loss of Qualification and Recognition as a Disqualified Individual.
- Unexplained absence from three committee meetings.
- Unexplained absence from the annual meeting.

If a member's term is terminated or if they resign voluntarily, DAO members will vote to elect qualified individuals to fill the vacancy on the Executive Committee until the term ends.

6.3 Governance Rewards

A comprehensive DAO governance reward system in AET WORLD aims to incentivize community members to actively participate in governance decisions, contribute, and vote for the long-term success of the project. The transparency and fairness of reward calculations are crucial factors in ensuring the effectiveness of the governance process and the satisfaction of community members. These reward mechanisms should be clearly defined within the DAO governance framework and adjusted and optimized based on the community's needs and goals.

6.3.1 Voting Rewards

Voting rewards serve as a mechanism to encourage community members to actively participate in voting decisions. Whenever a governance proposal requires a community vote, staking users have the opportunity to participate. They can vote to support or oppose the proposal, and each successful vote earns them a certain amount of voting rewards.

Reward Calculation

The calculation of voting rewards is based on several factors:

- **Voting Weight:** The voting weight is determined based on the staking user's staked amount. The more they stake, the higher their voting weight.
- **Participation:** Rewards may also be related to the user's voting participation. If a user actively participates in multiple proposals, they might receive additional rewards.
- **Proposal Importance:** Some proposals may be more critical than others, so the rewards for supporting or opposing these proposals may be higher.

6.3.2 Contribution Rewards

Contribution rewards serve as a mechanism to encourage community members to actively participate and contribute to the project. Community members can contribute to the successful development of the project by proposing valuable ideas, solving problems, developing applications, or other means. These contributions will be recognized and rewarded to motivate more community members to actively engage in the governance process.

Reward Calculation

The calculation of contribution rewards is typically based on the nature and value of the contribution. The community can establish an evaluation committee responsible for assessing and determining the reward amount for each contribution. Rewards can be distributed in the form of tokens, varying based on the quality and significance of the contribution. This reward system helps attract high-quality contributors and maintains the community's vibrancy.

6.3.3 Committee Rewards

Committee rewards are designed to encourage community members to take on specific committee roles within the governance structure. Committees are typically responsible for handling governance affairs in specific areas, such as technical review, social media promotion, education, etc. Committee members invest time and effort in fulfilling their responsibilities, and, as a result, they can receive a certain number of rewards to reflect their contributions.

Reward Calculation

The calculation of committee rewards is usually associated with the workload and responsibilities of the committee. Rewards can be distributed periodically, and the work performance and efficiency of committee members can influence the reward amount. This helps maintain the enthusiasm and efficiency of the committees.

6.3.4 Proposal Approval Rewards

Community members who propose beneficial proposals and successfully drive their approval can receive additional rewards to incentivize them to submit and support high-quality proposals. This reward mechanism helps identify and reward community members who have a positive impact on the project's development.

Reward Calculation

The calculation of proposal approval rewards typically depends on the nature of the proposal and its importance to the project. The community can establish a review committee responsible for evaluating proposals and deciding on the reward amount. This ensures that rewards are reasonable, transparent, and fair.

7. Roadmap

Stage	Details
2018	<ul style="list-style-type: none"> ● Project conceptualization ● Team formation and project planning ● Market research and competitive analysis
2019	<ul style="list-style-type: none"> ● Establishment of the public chain development team ● Technical framework design and prototype development
2021	<ul style="list-style-type: none"> ● Strategic partnership with ACU ● Introduction of partners and investors
2022	<ul style="list-style-type: none"> ● Release of AET Chain Ver.1
2023 Q4	<ul style="list-style-type: none"> ● Establishment of AET Foundation ● Release of AET WORLD Project 2.0 whitepaper ● Establishment and issuance of Ladder AI algorithm model ● Issuance of AET token, establishment of decentralized trading pairs ● Commencement of global node partner recruitment ● Launch of the trial version for internal testing and user experience feedback ● Official release of AET World DAPP
2024 Q1	<ul style="list-style-type: none"> ● Launch of global roadshows, including Switzerland, Malawi, Hong Kong, South Korea, Japan, Malaysia, and Vietnam ● Official launch of AET Wallet, supporting multi-chain asset management and secure, fast digital currency payments ● Introduction of smart portfolio tools by AET Wallet, providing users with more personalized asset allocation recommendations
2024 Q2	<ul style="list-style-type: none"> ● launch of AET ConnectSphere, inviting the first batch of community node users to join ● Deep integration of the social platform with AET Wallet, creating a community-driven economic system

2024 Q3	<ul style="list-style-type: none"> ● Official launch of AET Gaming, introducing the first batch of innovative games, offering a diverse digital entertainment experience ● Collaboration between AET Gaming and charitable projects, introducing charity games to promote social welfare ● Hosting a global gaming competition by AET Gaming to enhance platform influence
2024 Q4	<ul style="list-style-type: none"> ● Release of the AET Chain test version, allowing developer community participation in testing and development ● Compilation of feedback from the test version, optimizing the performance and security of the public chain ● Launch of a global recruitment plan for public chain nodes, aiming to create a decentralized consensus network
2025 Q1	<ul style="list-style-type: none"> ● Initiation of the AET Chain-evolution project in collaboration with the Malawi government to drive practical implementation of digital currency ● Launch of the ACU stablecoin issuance plan, exploring the application of the Asian Currency Unit (ACU) on the AET Chain ● Promotion of the expansion of the AET Chain-evolution project in the Asia-Pacific region, strengthening regional cooperation
2025 Q2	<ul style="list-style-type: none"> ● Online deployment of the AET CCP Project, accepting digital asset donations, transparently showcasing fundraising and project progress ● Collaboration with globally renowned charitable organizations to promote innovative applications of blockchain technology in the philanthropic sector
2025 Q3	<ul style="list-style-type: none"> ● Official launch of the AET Chain testnet, opening up for developer community participation in testing and development ● Official launch of the AET Chain mainnet, initiation of a global public chain node recruitment plan, forging a decentralized consensus network
2025 Q4	<ul style="list-style-type: none"> ● Successful implementation of the AET Chain-Evolution project in multiple countries, achieving deep integration of digital currency in national economies ● Wider adoption of the ACU stablecoin in the Asia-Pacific region, fostering regional trade and financial cooperation
2026 Q1	<ul style="list-style-type: none"> ● Release of AET WORLD platform version 2.0, introducing a new ecosystem support plan ● Official launch of AET Exchange, providing comprehensive digital asset trading services ● Initiation of support plans for various AET ecosystem projects, offering funding and technical support to promising projects

2026	<ul style="list-style-type: none"> ● Official launch of AET Chain Business Incentive Program, incentivizing global businesses to join the AET WORLD
2026 Q3	<ul style="list-style-type: none"> ● Drive the development of the AET WORLD DAO governance framework, involving more community nodes in decision-making
2026 Q4	<ul style="list-style-type: none"> ● AET WORLD project collaborates with multiple governments to host a global financial summit, exploring future development trends, and unveiling a new strategic layout. ● Formulate a global strategic promotion plan to increase AET WORLD's visibility in key markets. ● Drive the application of the AET ecosystem in more fields, expanding the user base.