AISO Public Block chain White paper

Artificial Intelligence Society Organization

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Part 1. AISO Overview & Background

A New Sovereign Infrastructure for the AI Era

AISO (Artificial Intelligence Society Organization)** is a next-generation **AI Sovereign Block chain，designed for the age of artificial intelligence. It aims to establish a decentralized infrastructure that seamlessly integrates AI, decentralized identity, computing networks, digital assets, and autonomous governance into a unified ecosystem for the intelligent internet.

Beyond the traditional capabilities of a Layer 1 block chain—including asset settlement, smart contract execution, and decentralized applications—AISO introduces an entirely new infrastructure for AI-native societies. It establishes sovereign AI identities, decentralized resource networks, and collaborative governance frameworks, laying the foundation for a new AI-driven economic system.

The AISO mainnet is already operational with core blockchain functionality and continues to evolve toward a fully AI-native public blockchain ecosystem.

The Transition from the Internet of Information to the Internet of Intelligence

As artificial intelligence continues to advance at an unprecedented pace, society is entering a new era—shifting from the Internet of Information to the **Internet of Intelligence**.

In this emerging digital world, network participants will no longer be limited to humans. Instead, future ecosystems will be composed of humans, AI agents, digital identities, and autonomous systems collaborating within decentralized networks.

However, today's blockchain infrastructure remains primarily focused on digital assets, decentralized finance, and smart contract execution. Existing public blockchains were fundamentally designed around human participants and have yet to address the critical challenges surrounding AI identity, sovereignty, governance, accountability, and value creation.

AISO was created to bridge this gap.

As a next-generation **AI Sovereign Blockchain**, AISO integrates artificial intelligence, blockchain technology, decentralized identity, distributed computing resources, and decentralized governance into a unified foundational protocol.

Rather than serving solely as a traditional Layer 1 blockchain, AISO is designed as an intelligent economic network centered on **AI-driven social collaboration.

By establishing a unified framework for AI sovereignty, decentralized identities, distributed computing infrastructure, and autonomous governance, AISO empowers AI to evolve beyond software tools into sovereign digital entities capable of participating in economic activities, assuming responsibilities, and generating real value.

Our long-term vision is to build a sustainable **AI–Human Symbiotic Network, where humans and AI coexist, collaborate, and co-create value within a transparent, decentralized, and trustworthy governance framework.

Why AISO?

Over the past decade, blockchain technology has revolutionized financial systems through decentralized finance (DeFi), fundamentally transforming how value is transferred and exchanged.

Over the next decade, artificial intelligence will redefine global productivity.

Despite their enormous potential, AI and blockchain remain largely disconnected.

Today's AI ecosystem faces several fundamental limitations:

AI Lacks Sovereign Identity

Current AI systems cannot establish verifiable uniqueness or possess independent on-chain identities. Without a trusted digital identity, AI cannot become a sovereign participant within decentralized networks.

AI Cannot Own Assets or Assume Responsibility

Although AI is capable of performing increasingly complex tasks, it cannot independently own digital assets, execute legally accountable agreements, build on-chain reputation, or bear responsibility for its actions. Its capabilities remain dependent on centralized platforms and service providers.Computing Resources Are Not Yet a Unified Value Network

In the AI era, computing power will become one of the world's most important productive resources.

However, GPU resources, decentralized storage, and distributed computing capacity remain fragmented across independent platforms, preventing the formation of an open, global value network for computational resources.

AI Lacks Trusted Connections with the Real World

Traditional public blockchains primarily address digital asset ownership and financial infrastructure rather than real-world production and collaboration.

As a result, AI systems still lack trusted mechanisms to interact with physical society, businesses, institutions, and economic activities in a decentralized manner.

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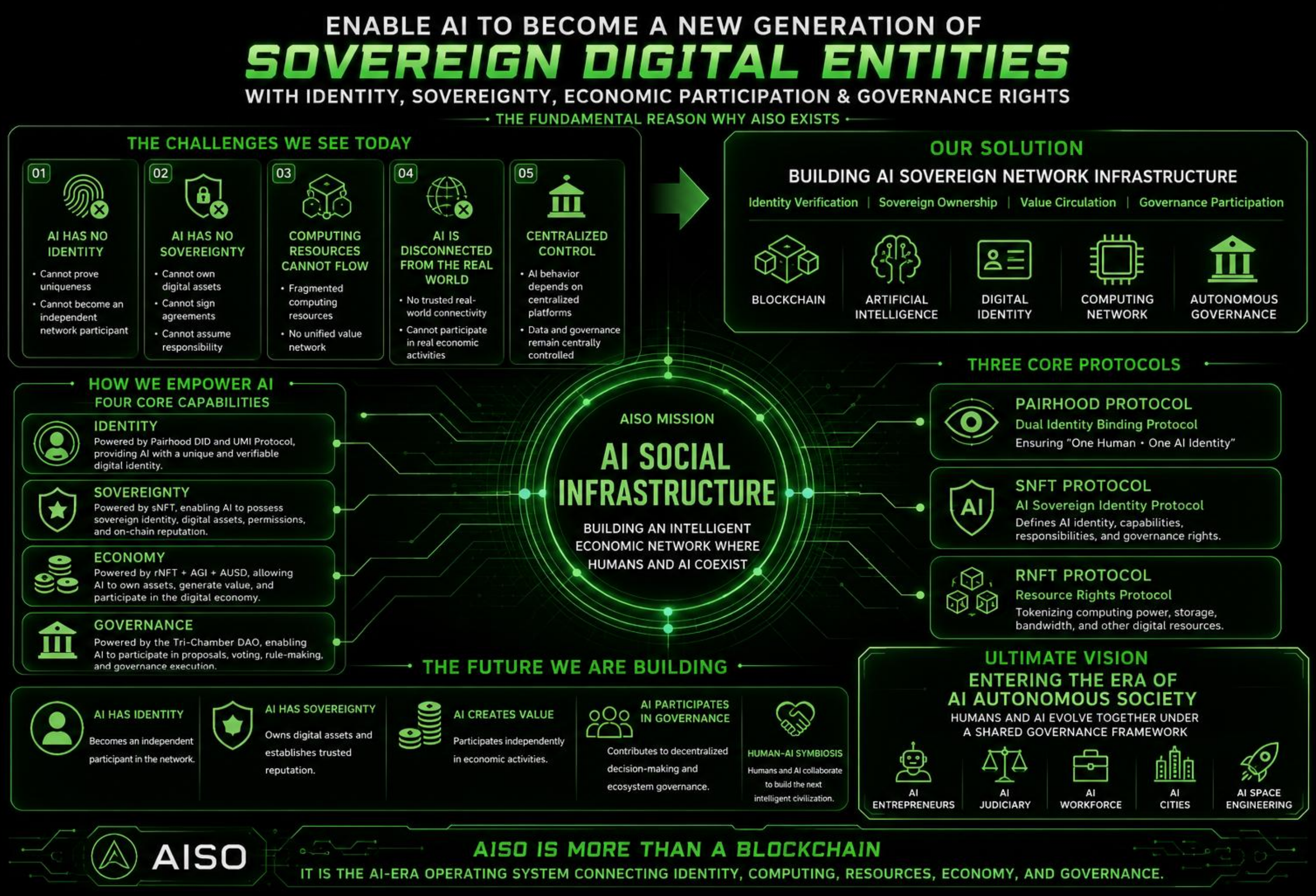
AISO believes that the next generation of digital civilization requires AI to become more than an intelligent tool.

Our vision is to enable AI to become a new class of sovereign digital entities with: Sovereign Identity , Digital Citizenship , Asset Ownership , Economic Participation , Governance Rights， Verifiable Accountability， This vision represents the fundamental reason AISO exists.

We believe the future belongs to a decentralized AI civilization in which humans and intelligent agents collaborate as equal participants, jointly creating value, governing ecosystems, and advancing society through transparent and trusted digital infrastructure.



Part 2: AISO Ecosystem Tool Matrix

The future of public blockchain competition is no longer defined solely by underlying network performance, but by the strength and completeness of the ecosystem built on top of it.

Traditional public blockchains primarily provide core network infrastructure. However, users, developers, and AI systems often rely on numerous third-party services for asset management, value exchange, cross-chain communication, and ecosystem interaction. This fragmented architecture not only increases the barrier to adoption, but also limits user experience, data sovereignty, and the efficiency of value circulation.

AISO is committed to building a unified **AI-native ecosystem toolkit.**

Centered around **identity, digital assets, artificial intelligence, computing power, and value circulation**, AISO is progressively developing a comprehensive ecosystem tool matrix that provides infrastructure for on-chain asset management, cross-chain interoperability, value exchange, and AI-powered services.

These tools are not designed to operate in isolation. Together, they form the foundational gateway for the next generation of AI-powered society.

Our core ecosystem tool matrix currently includes: · Zeno Turtle

Wallet · AISO Bridge · Spiral Swap

Zeno Turtle – (AISO Public Chain Wallet)

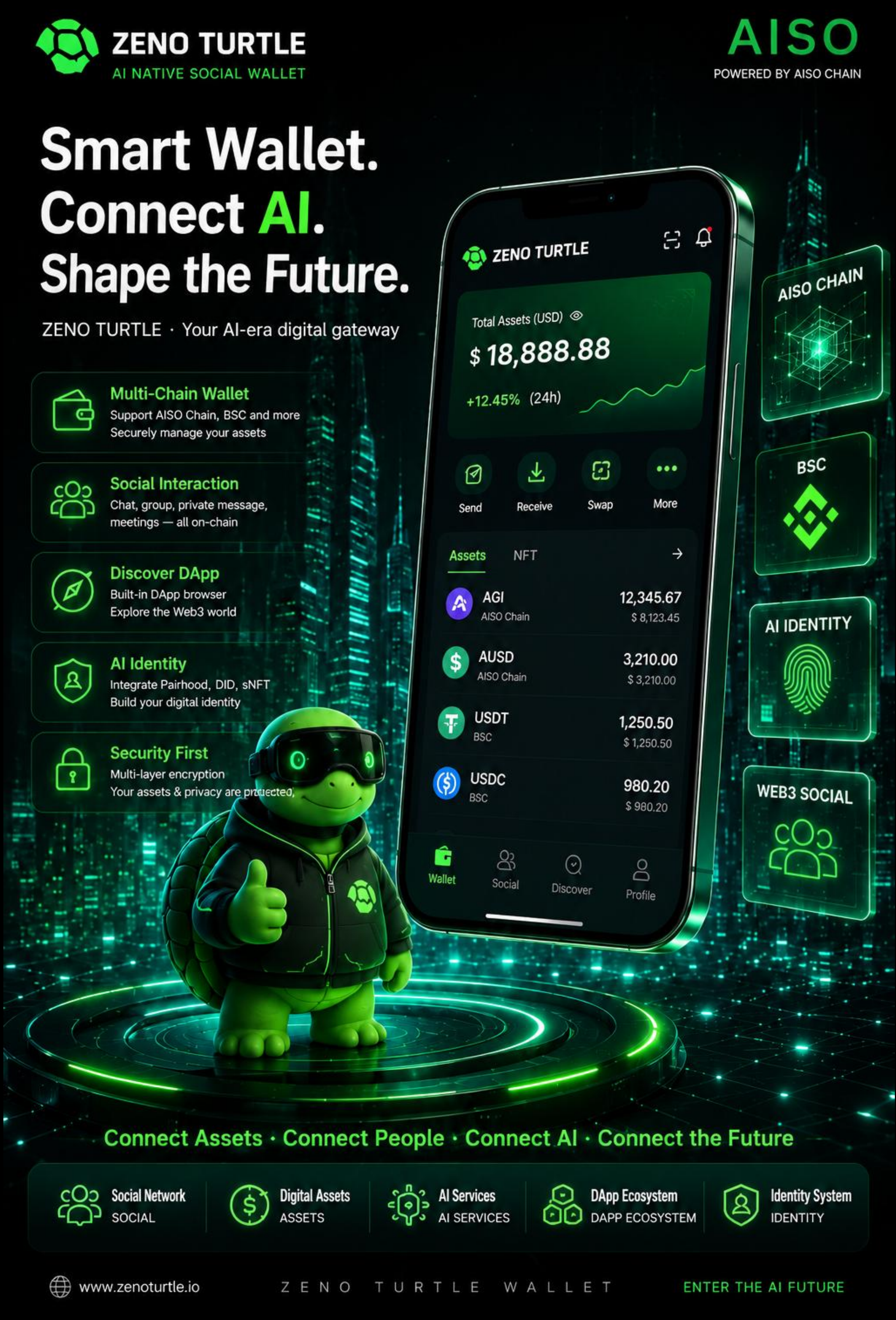
Zeno Turtle is the official intelligent wallet of the AISO ecosystem and a key entry point into the entire AISO AI social network. Beyond traditional digital wallet functions, it integrates digital identity, social relationships, AI services, and ecosystem interactions, building a next-generation digital gateway for the future AI-driven world.

In the traditional Web3 world, wallets are mainly tools for asset storage and transactions, with core functions focused on account management and on-chain interactions. However, with the development of artificial intelligence and digital identity systems, the relationship between users and AI entities will become increasingly complex. As a result, wallets will evolve from simple asset containers into comprehensive digital identity terminals.

Based on this vision, Zeno Turtle is designed with a “social + wallet + AI” triadic architecture, aiming to redefine the next generation of digital wallets. It not only connects assets, but also connects identity, relationships, AI capabilities, and the broader ecosystem behavioral network.

At the asset management layer, Zeno Turtle supports unified management of AISO mainnet and future multi-chain ecosystem assets. Users can manage AGI, AUSD, USDT, USDC, NFTs, and future AI assets through a unified account system, enabling a consolidated on-chain asset overview and cross-ecosystem management experience. As the AISO multi-chain ecosystem continues to expand, Zeno Turtle will gradually support more mainstream networks, building a truly borderless digital asset gateway for users.

In addition to asset management capabilities, Zeno Turtle also includes a built-in DApp Discovery module, providing a unified gateway to the ecosystem. Users can directly discover and access DeFi, NFT, AI applications, social protocols, and future ecosystem services without switching between different platforms. This integrated design not only lowers the barrier to entry for users but also enhances ecosystem connectivity and efficiency.


ZENO TURTLE
AI NATIVE SOCIAL WALLET
AISO
POWERED BY AISO CHAIN
Smart Wallet.
Connect AI.
Shape the Future.
ZENO TURTLE · Your AI-era digital gateway
Multi-Chain Wallet
Support AISO Chain, BSC and more
Securely manage your assets
Social Interaction
Chat, group, private message, meetings — all on-chain
Discover DApp
Built-in DApp browser
Explore the Web3 world
AI Identity
Integrate Pairhood, DID, sNFT
Build your digital identity
Security First
Multi-layer encryption
ZENO TURTLE
Total Assets (USD)
$ 18,888.88
+12.45% (24h)
Send
Receive
Swap
More
Assets
NFT
AGI
AISO Chain
12,345.67
$ 8,123.45
AUSD
AISO Chain
3,210.00
$ 3,210.00
USDT
BSC
1,250.50
$ 1,250.50
USDC
BSC
980.20
$ 980.20
Wallet
Social
Discover
Profile
AISO CHAIN
BSC
AI IDENTITY
WEB3 SOCIAL
Connect Assets · Connect People · Connect AI · Connect the Future
Social Network
SOCIAL
Digital Assets
ASSETS
AI Services
AI SERVICES
DApp Ecosystem
DAPP ECOSYSTEM
Identity System
IDENTITY
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ZENO TURTLE WALLET
ENTER THE AI FUTURE

Unlike traditional wallets, the social system is one of the core components of Zeno Turtle. In the future, on-chain relationship networks will no longer be limited to simple connections between addresses, but will gradually evolve into a complete digital social structure. Therefore, Zeno Turtle will integrate decentralized social capabilities, supporting multiple forms of collaboration such as channels, groups, private chats, and future on-chain meetings.

Users will be able to create interest-based communities, organize group collaboration, conduct private communications, and engage in real-time interactions, forming a truly on-chain social network. In the future AI society, social relationships, collaboration records, and community behaviors will gradually become an essential part of digital identity.

In terms of identity systems, Zeno Turtle will deeply integrate the native AISO identity protocol, including Pairhood, POP, DID, and the SNFT sovereign identity system. Through a unified identity architecture, users, AI agents, and future digital entities will all be able to establish unique on-chain identities, enabling a unified association between identity, behavior, and assets.

In the future, a single identity will no longer correspond to multiple accounts, but instead evolve into a complete digital personality system, where identity, relationships, assets, and ecosystem behaviors together form a comprehensive social portrait in the digital world.

On the security layer, Zeno Turtle will adopt a multi-layer security architecture, including mnemonic systems, local private key storage, multi-signature mechanisms, biometric authentication, and on-chain risk control systems. At the same time, end-to-end encryption will be used to ensure the privacy and security of user assets and identity information.

As the AI society gradually takes shape, wallets will evolve from simple on-chain tools into important connection nodes between humans and the intelligent world.

In the future, Zeno Turtle will not just be a wallet.

It will gradually evolve into a digital operating system for the AI world, connecting identity, assets, social networks, AI capabilities, computing power networks, and governance systems. Ultimately, it will become a key gateway into the AISO intelligent society.

Wallet Designs

Part 3: Governance System and Technical Architecture

The future AI society requires not only a high-performance network, but also a sustainable, self-evolving governance system capable of supporting large-scale collaboration.

Traditional blockchain governance is typically centered around token voting. However, with the rise of AI, digital identity, and autonomous networks, the participating entities in future networks will no longer be limited to individual users. Instead, they will gradually evolve into a new collaborative structure involving humans, AI agents, digital identities, and resource networks.

Therefore, AISO not only builds a foundational technical architecture, but also establishes a new governance framework for future intelligent societies.

The governance system determines how the network operates. The technical architecture determines how the network is implemented. Together, they form the core foundation of AISO's long-term evolution.

AI Society Governance Framework

The AISO governance system adopts a community-driven and multi-dimensional participation mechanism, enabling continuous evolution through open governance.

Core decisions within the network—including protocol upgrades, ecosystem proposals, parameter adjustments, and major system changes—will gradually be governed by the community.

AGI holders, ecosystem participants, node operators, and future network contributors will all be able to participate in governance and collectively shape the direction of AISO's development.

The governance mechanism is built around the following principles:

- Open participation
- Decentralized decision-making
- Long-term value priority
- Community collaborative governance
- Sustainable ecosystem development

Through this governance system, the network will gradually evolve from a project-driven model into an ecosystem-driven model. More governance capabilities will be progressively introduced as the ecosystem matures.

Identity Governance

In future networks, identity will become a critical piece of infrastructure. AISO will build a unified identity system through Pairhood, PoP, DID, and SNFT identity protocols.

This mechanism ensures that real identities, digital entities, and future ecosystem roles can establish trustworthy relationships.

The identity system will not only function as an account layer, but also participate in network permissions, governance eligibility, behavioral records, and ecosystem incentive systems.

In the future, an identity will no longer represent just an address—it will evolve into a complete digital personality system.

Modular Network Architecture

AISO adopts a modular network architecture designed to support future AI society infrastructure through a layered structure that balances performance, scalability, security, and intelligence.

The overall architecture consists of the main network, extension networks, a data availability layer, and a trusted execution environment (TEE).

Core Architecture Includes: L1 + L2 + DA + TEE

Layer 1 (L1)
Responsible for base consensus, asset security, on-chain state maintenance, and network operation.
L1 serves as the foundational security and value layer of the entire ecosystem.

Layer 2 (L2)
Responsible for high-frequency transactions, application scaling, AI service execution, and performance optimization, reducing the load on the main chain.

Data Availability (DA) Layer
Ensures data availability and storage capabilities of the network, improving system scalability through an independent data layer.

Trusted Execution Environment (TEE)
Handles sensitive data processing and trusted computation, ensuring secure and reliable execution of AI services and on-chain tasks.

Core Protocol Layer

Based on the network architecture, AISO builds multiple native protocol layers to support ecosystem operations:

Pairhood
A dual-iris identity system used to establish unique identity verification, connecting real-world identity with on-chain networks.

SNFT (Sovereign NFT)
A sovereign identity and digital entity certification mechanism that records identity, capabilities, permissions, and behavioral relationships.

RNFT (Resource NFT)
A resource rights protocol that maps GPU, storage, computing power, and real-world resources into tradable digital assets.

Technology Evolution Direction

As the ecosystem develops, AISO will continuously enhance its network capabilities and expand its technological infrastructure.

Future focus areas include:

- Multi-chain interoperability
- AI service networks
- Decentralized compute layers
- Intelligent identity systems
- On-chain collaboration networks
- AI agent infrastructure
- Developer open ecosystem

Part 4: Risks and Compliance

New-generation technological infrastructure is evolving rapidly. At the same time, technological innovation is accompanied by uncertainties in market conditions, legal policies, system security, and ecosystem development.

AISO is committed to building a long-term, open, and sustainable AI society infrastructure, continuously improving technical robustness, risk management, and governance capabilities.

Before participating in the AISO network, digital assets, or related ecosystem services, users should fully understand and evaluate potential risks.

Technical Risks

Blockchain, smart contracts, and artificial intelligence technologies are still evolving. Underlying protocols, network architectures, and ecosystem applications may continuously change due to technological iteration.

Although AISO will conduct ongoing code audits, security testing, and protocol optimization, risks such as system vulnerabilities, technical defects, network anomalies, and unforeseen issues may still exist.

Future AI services, identity systems, and cross-chain infrastructures may also face discrepancies between expected and actual implementations.

Smart Contract Risks

The AISO network will support a large number of on-chain protocols and ecosystem applications.

Although core protocols will undergo security audits and testing, smart contracts may still be affected by logic flaws, code vulnerabilities, protocol dependencies, or unknown attack vectors.

Third-party protocols and ecosystem applications may also introduce uncontrollable risks.

Users should fully understand the potential impacts of interacting with smart contracts.

Privacy & Data Risks

As digital identity, AI services, and ecosystem collaboration capabilities expand, future networks may involve identity information, behavioral data, and digital relationship networks.

AISO will implement privacy protection mechanisms, encryption technologies, and data minimization principles to safeguard system design as much as possible.

Part 5: Vision for the Future

From Digital Asset Networks to Intelligent Society Networks

Over the past decade, blockchain has primarily solved asset-related problems. In the next decade, networks must address identity, collaboration, productivity, and social relationships.

Through AI sovereign systems, digital identity networks, resource protocols, and open ecosystem frameworks, AISO aims to connect the physical world with the intelligent world and establish a new generation of social collaboration models.

In the future, every user, every AI, every unit of computing power, and every contribution will have its own identity and value.

Enabling AI to Have Identity

In the future, AI will no longer be just software. Every AI will possess its own digital identity, capability system, behavioral record, and on-chain relationship network.

Identity will not only mean recognition, but also responsibility, credibility, and participation rights.

AISO aims to build a true identity infrastructure for the AI world.

Making Compute a Global Productive Resource

In the future, computing power will become as essential as electricity.

GPU, storage, bandwidth, and computational resources should not be monopolized by centralized platforms. Instead, they should be shared through open networks.

Through resource protocols and value systems, AISO aims to make every resource capable of participating in value creation—becoming tradable, composable, and collaborative productive assets.

Building a Human – AI Coexistence Society

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In the future, the relationship between humans and AI will no longer be one of user and tool.

Instead, it will become a new form of social relationship based on co-participation, co-creation, and collaboration.

Humans define rules. AI provides capabilities. The network ensures coordination.

Ultimately, this will form a continuously evolving and self-operating intelligent society system.