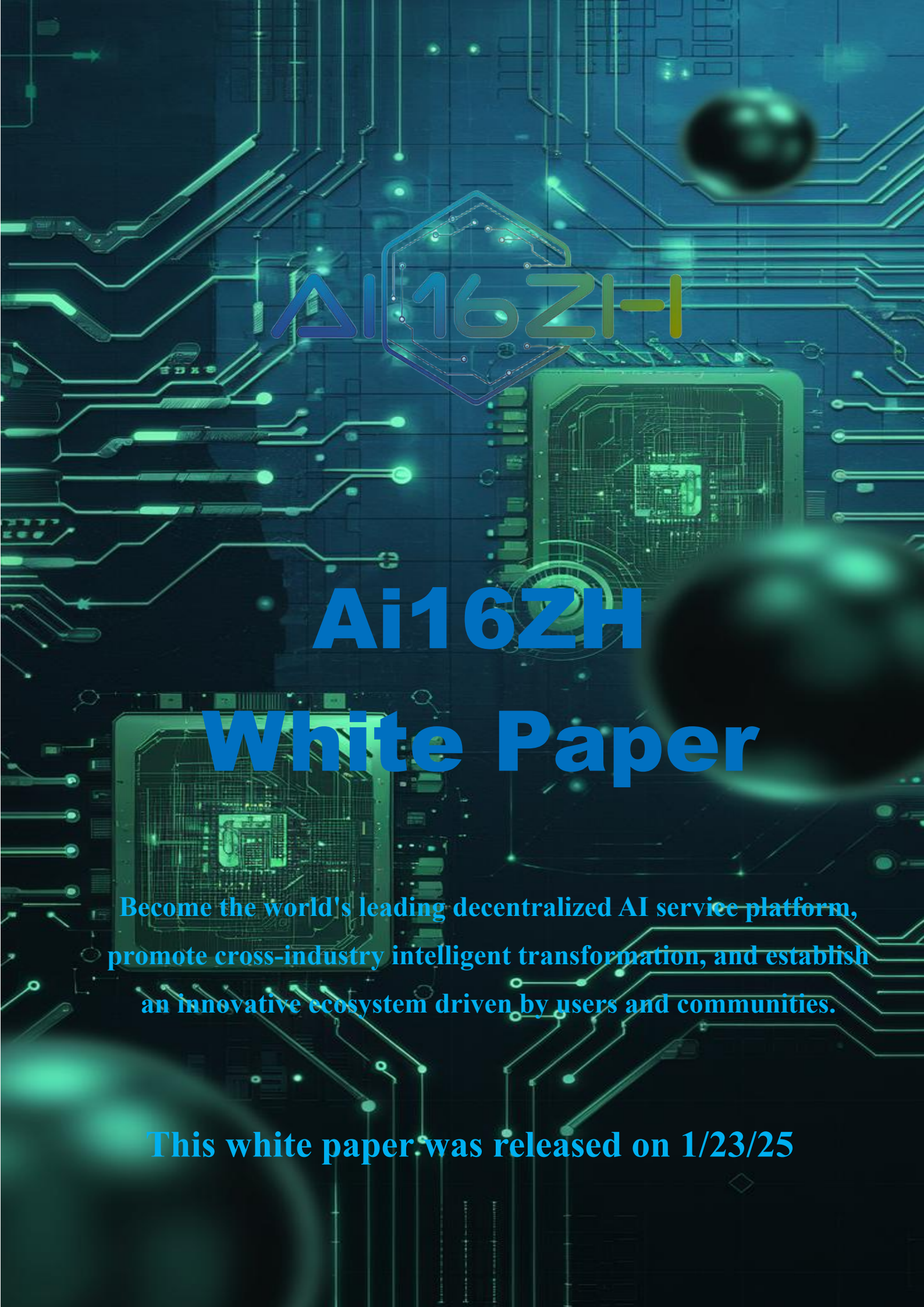

Ai16ZH White Paper

Become the world's leading decentralized AI service platform, promote cross-industry intelligent transformation, and establish an innovative ecosystem driven by users and communities.

This white paper was released on 1/23/25

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AI16ZH Whitepaper

1. Overview

Artificial Intelligence (AI) is transforming industries worldwide, and the rise of blockchain technology further accelerates the decentralization of AI computing. AI16ZH is a revolutionary **decentralized AI computing platform** that leverages blockchain technology to provide **secure, efficient, and low-cost** AI computing resources for global developers and enterprises.

The current AI computing ecosystem is dominated by centralized technology companies, leading to high computing costs, data security risks, and unfair distribution of computing resources. AI16ZH aims to establish a **decentralized and distributed AI computing network** on the **Solana blockchain**, enabling any developer to access AI computing power freely while incentivizing users who contribute computing power, data, and AI models.

AI16ZH envisions becoming the **AI computing infrastructure for the Web3 era**, making decentralized AI computing the preferred solution for global developers and research institutions. The project will support **AI model training, inference, data sharing, and computing resource allocation**, with a decentralized governance model to ensure transparency and fairness.

2. Vision and Mission

2.1 Vision

AI16ZH aims to **democratize AI computing**, ensuring that everyone can fairly access high-performance AI computing power without being monopolized by centralized institutions. Our goal is to build a **global decentralized AI computing network**, supporting **AI model training, data sharing, and resource allocation**, providing the most powerful AI computing solutions for the Web3 ecosystem.

Key aspects of AI16ZH's vision:

- **Transparent and traceable AI computing**, ensuring fair access to resources.
- **User ownership of data**, protecting privacy while incentivizing data contributors.
- **Decentralized AI computing**, preventing computational power from being controlled by a few entities.
- **Integration of AI computing with Web3**, enhancing decentralized applications with AI capabilities.

2.2 Mission

AI16ZH leverages **Solana blockchain + decentralized AI computing network** to build a scalable, secure, and efficient Web3 AI computing platform.

Core missions of AI16ZH:

- **Decentralized AI Computing**:
  - Establish a globally distributed AI computing network, allowing developers to access computational power seamlessly.
  - Use smart contracts for task allocation, ensuring efficient utilization of computing resources.
- **Data Ownership & Incentives**:
  - Enable data contributors to control access to their data and receive token rewards.
  - Implement **privacy-preserving computation** (e.g., Zero-Knowledge Proofs, MPC) to ensure data security.
- **High-Efficiency, Low-Cost AI Computing**:
  - Reduce AI computing costs using Solana's **low gas fees and high throughput**.
  - Implement **distributed computing architecture**, reducing dependency on expensive cloud resources.
- **Open, Decentralized Governance**:
  - Utilize a DAO (Decentralized Autonomous Organization) model, allowing token holders to vote on platform development.
  - Establish a **decentralized voting mechanism** to ensure governance transparency and fairness.

3. AI16ZH Solutions

The AI computing ecosystem faces challenges such as high costs, lack of data privacy, and unfair resource distribution due to centralization. AI16ZH addresses these core issues through **a decentralized AI computing marketplace, automated task allocation via smart contracts, distributed data storage, and Solana blockchain technology**.

3.1 High-Performance AI Computing on Solana

AI16ZH has chosen **Solana as its main network** due to its **high throughput, low latency, low transaction costs, and scalability**. Solana's **Sealevel parallel processing mechanism** allows multiple AI computing tasks to execute simultaneously without blockchain network congestion.

Core advantages of AI16ZH leveraging Solana:

- **High throughput**: Solana supports up to **65,000 TPS (transactions per second)**, ensuring smooth AI computing operations.
- **Low gas fees**: Compared to Ethereum, Solana's transaction costs are negligible, reducing AI computing expenses.
- **Decentralized computation**: AI16ZH uses **decentralized computing resource matching**, allowing users worldwide to contribute computing power, avoiding centralized bottlenecks.
- **Security**: Built on Solana's **Proof-of-History (PoH) + Proof-of-Stake (PoS)** architecture, ensuring the security of transactions and AI tasks.

3.2 Ecosystem-Driven AI Computing

AI16ZH builds a **decentralized AI computing marketplace** that connects computing power providers, AI researchers, developers, and data contributors, ensuring efficient AI resource matching.

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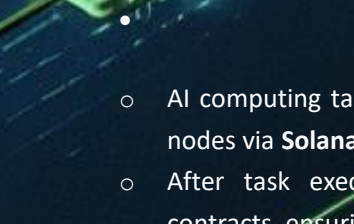
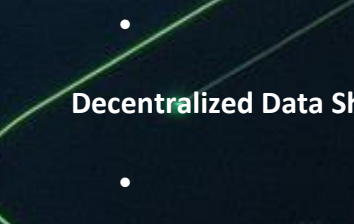
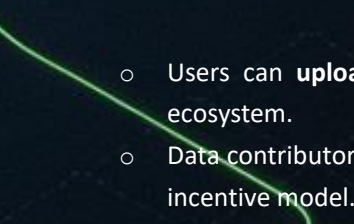
Smart Contract-Based Task Matching:

- 
  - AI computing tasks are automatically matched to the most suitable computing nodes via **Solana smart contracts**.
  - After task execution, settlements are processed automatically via smart contracts, ensuring fairness.
- 

Decentralized Data Sharing:

- 
  - Users can **upload, share, and trade AI training datasets** within the AI16ZH ecosystem.
  - Data contributors receive **AI16ZH token rewards**, fostering a robust data-sharing incentive model.

- **Distributed AI Computing Network**:
  - AI16ZH adopts a **decentralized computing architecture**, where computing power is sourced globally instead of relying on centralized servers.
  - AI researchers can rent computational resources for **deep learning model training, inference tasks, and more**.

3.3 Privacy Protection & Data Security

AI16ZH ensures **data security through privacy-preserving computation and distributed storage**.

- **Zero-Knowledge Proofs (ZKP)**:
  - Allows users to verify computations without revealing actual data.
- **Decentralized Storage (Arweave + IPFS)**:
  - Uses **IPFS and Arweave** to store AI training data securely, ensuring immutability and long-term availability.
- **Censorship Resistance**:
  - AI16ZH avoids censorship risks by distributing data and computations across decentralized nodes globally.

3.4 Web3 + AI Computing Integration

- **AI for DeFi**: AI16ZH's computing power supports DeFi platforms in **risk assessment, predictive analytics, and automated trading strategies**.
- **AI for NFTs**: AI16ZH enables **NFT generation, market pricing, and fraud detection**, enhancing NFT ecosystems with AI intelligence.
- **AI for DAO Governance**: AI16ZH's decentralized AI computing network can be used for **intelligent decision-making in DAOs**, optimizing governance efficiency.

4. Key Features

AI16ZH leverages a series of innovative functionalities and architectures to create a decentralized AI computing ecosystem, addressing core challenges in the current AI computing market. Below are the key features of the AI16ZH platform:

4.1 Decentralized AI Computing

- Built on the **Solana blockchain**, ensuring decentralized management of computing resources and preventing monopolization.
- Distributed execution of computing tasks, allowing global users to contribute idle computing power and earn incentives.
- Tasks are automatically assigned via **smart contracts**, ensuring fair and efficient utilization of computing resources.

4.2 Low-Cost, High-Efficiency AI Computing Resources

- **Low gas fees** on Solana make AI16ZH computing costs significantly lower than Ethereum and traditional cloud computing.
- **Parallel transaction processing mechanism** allows multiple computing tasks to be executed simultaneously, improving efficiency.
- **Distributed computing architecture** reduces reliance on expensive cloud computing infrastructure.

4.3 Data Sharing & Privacy Protection

- Users can contribute **AI training data** and receive AI16ZH token rewards.
- **Zero-Knowledge Proofs (ZKP) + Multi-Party Computation (MPC)** ensure data privacy is never compromised.
- The AI data marketplace enables developers to securely access high-quality datasets.

4.4 Web3 Compatibility & AI Computing Integration

- AI16ZH integrates with **DeFi, NFT, and DAO ecosystems**, enhancing the intelligence of Web3 applications.
- Computing tasks can directly interact with smart contracts, enabling automated AI execution.
- **Cross-chain technology** is implemented to support multi-chain compatibility, increasing the scalability of the AI16ZH ecosystem.

5. Technical Architecture

AI16ZH employs a **layered technical architecture** to ensure efficient decentralized AI computing while maintaining data privacy, security, and fair resource distribution.

5.1 Underlying Blockchain Architecture

- **Solana Blockchain**: Utilizes the **PoH + PoS mechanism**, providing high throughput and low transaction costs.
- **Smart Contract Execution Layer**:
  - Uses Solana's **Sealevel parallel processing** mechanism, allowing multiple computing tasks to run concurrently.
  - Computing task allocation, result verification, and payment settlements are all automated through **Solana smart contracts**.

5.2 Decentralized Computing Network (DCN)

- AI16ZH computing tasks are executed by a network of decentralized computing nodes, with users selecting suitable computing providers.
- Computing nodes undergo **consensus mechanisms and staking** to ensure task execution reliability.
- **Computation Verification Layer**:
  - Implements **off-chain computation + on-chain verification** to enhance efficiency.
  - Computation results are submitted to smart contracts and verified through a **multi-party validation mechanism** to ensure credibility.

5.3 Data Storage & Security Architecture

- **Decentralized Storage**:
  - Uses **IPFS + Arweave** for data storage, ensuring long-term availability of AI training data.
  - Data is stored in shards, improving security and preventing single points of failure.
- **Data Privacy Protection**:
  - Implements **Zero-Knowledge Proofs (ZKP) + Multi-Party Computation (MPC)** to ensure privacy for data contributors.

- Users can opt for **completely anonymous data transactions**, maintaining privacy and security.

5.4 AI Computing Marketplace & Economic Incentives

- Computing tasks are **automatically matched to the best-performing computing nodes** via smart contracts.
- **Dual incentive model**:
  - Computing power contributors (node providers) receive AI16ZH token rewards.
  - Data contributors (AI training data providers) receive additional rewards.
- **Task Assurance Mechanism**:
  - Users submitting AI computing tasks must **stake AI16ZH tokens** as collateral to ensure execution integrity.
  - Computing nodes must fulfill tasks as required or risk penalties or removal from the network.

5.5 AI16ZH API & Enterprise Integration

- Provides an **AI computing API**, allowing developers to integrate AI computing capabilities into their Web3 applications.
- **Enterprise-Grade AI Computing Solutions**:
  - FinTech companies can leverage AI16ZH for **intelligent risk management and credit scoring**.
  - NFT platforms can utilize AI16ZH for **market pricing and fraud detection**.
  - DAOs can leverage AI16ZH for **smart governance**, optimizing decision-making processes.

6. Tokenomics

AI16ZH adopts a **decentralized token economy model** based on Solana, ensuring the efficient operation of the AI computing market while incentivizing all participants, including computing power contributors, developers, data providers, and investors.

6.1 Total Token Supply

The total supply of AI16ZH tokens is fixed at **99,000,000,000 (99 billion)**, allocated for ecosystem incentives, presales, market liquidity, and DAO governance.

6.2 Token Allocation

Category	Percentage	Token Amount	Purpose
Airdrop	10%	9,900,000,000	Attract users and grow the community, released in phases
Presale	15%	14,850,000,000	Early investors, seed round, private round
Team & Advisors	15%	14,850,000,000	Team incentives, locked for 2-4 years with gradual unlocking
Ecosystem Development (AI Mining & R&D)	25%	24,750,000,000	Incentivizing AI computing contributors and ecosystem growth
Liquidity & Marketing	20%	19,800,000,000	Exchange liquidity, marketing, and partnership initiatives
DAO & Community Governance	15%	14,850,000,000	Decentralized governance, community voting, and ecosystem funding

6.3 Presale Mechanism

AI16ZH tokens will be sold in multiple stages, gradually increasing in price to attract long-term investors.

Stage	Token Amount	Price (USDC)	Vesting Schedule
Seed Round	500,000,000	0.001 USDC	50% unlock in 6 months, fully unlocked in 12 months
Presale Round 1	500,000,000	0.002 USDC	No vesting, immediate unlock
Presale Round 2	500,000,000	0.004 USDC	No vesting, immediate unlock
Public Sale	1,000,000,000	0.008 USDC	No vesting, liquid at launch

6.4 Economic Incentive Model

AI16ZH tokens are not only used for AI computing payments but also serve as incentives within the ecosystem, with the following reward mechanisms:

- **Computing Power Contribution Rewards**: Computing power providers receive AI16ZH tokens as rewards to incentivize efficient computing resource contributions.
- **Data Provider Incentives**: Users who upload training datasets receive token rewards, ensuring data circulation.
- **AI16ZH Staking Mechanism**:
  - Users can stake tokens to gain governance rights and influence ecosystem decisions.
  - Stakers earn additional rewards and participate in ecosystem fund distributions.
- **Task Settlement**: All AI computing tasks are settled through smart contracts, eliminating intermediaries from traditional centralized payment systems.

7.3 Exchange Listing Plans

AI16ZH is currently undergoing evaluation for listing on major exchanges and is expected to be listed on **top global exchanges by Q4 2025**. OKX and other exchanges have already expressed interest in AI16ZH. The token is expected to be listed on:

- **Decentralized Exchanges (DEXs)**: Such as Raydium, Serum, and Uniswap.
- **Centralized Exchanges (CEXs)**: Including OKX, Binance, and Coinbase.

8. Future Roadmap

AI16ZH aims to build a world-leading decentralized AI computing network. To achieve this goal, we have developed a detailed roadmap to ensure steady project progress.

8.1 Short-Term Goals (Q4 2024 - Q2 2025)

- **Technology Development:**
  - Complete the core functionality of Solana smart contracts.
  - Launch the decentralized AI computing task matching system.
  - Test and optimize smart contracts to ensure fairness and transparency in task execution.
- **Ecosystem Building:**
  - Attract early developers, computing power providers, and data contributors.
  - Initiate the AI16ZH token seed round funding to secure initial capital.
  - Establish partnerships with DeFi, NFT, and DAO projects to drive AI computing applications.
- **Market Expansion:**
  - Publish the AI16ZH technical whitepaper to increase market awareness.
  - Organize community AMA sessions, hackathons, and developer incentive programs.
  - Conduct an airdrop campaign to boost user adoption.

- **AI16ZH Ecosystem Expansion:**
    - Establish a **decentralized AI data marketplace** to enable secure and compliant data sharing.
    - Provide **AI for NFT, AI for DeFi, AI for DAO** solutions to the Web3 space.
    - Drive AI research adoption through the AI computing marketplace.

9. Legal and Compliance

As a decentralized AI computing platform, AI16ZH adheres to legal and regulatory frameworks across different jurisdictions to ensure compliance. Our goal is to create a transparent, secure, and compliant Web3 AI computing ecosystem.

9.1 Regulatory Compliance

- **KYC (Know Your Customer) & AML (Anti-Money Laundering) Compliance:**
    - AI16ZH token transactions comply with **AML and KYC regulations**.
    - Partnering with compliance firms to ensure token sales align with international regulatory requirements.
- **Token Classification Compliance:**
    - AI16ZH tokens are categorized as **utility tokens**, used for AI computing payments, data purchases, and DAO governance.
    - The project avoids classification as a security to comply with regulations from the **U.S. SEC (Securities and Exchange Commission)** and other authorities.
- **Data Privacy Compliance:**
    - Adheres to **GDPR (General Data Protection Regulation)** to ensure user data security.
    - Utilizes **decentralized storage and Zero-Knowledge Proofs (ZKP)** to protect data privacy.
    - Allows users to control access to their data, preventing unauthorized use.

9.2 Jurisdiction and Legal Framework

- AI16ZH complies with **global blockchain regulations**, including:
  - **EU GDPR (Data Privacy Law)**
  - **U.S. SEC Securities Regulation Framework**
  - **Swiss FINMA (Financial Market Supervisory Authority) Regulations**
  - **Singapore MAS (Monetary Authority of Singapore) Cryptocurrency Regulations**
- Establishing **legal advisory teams** in key markets to ensure compliance.

9.3 Exchange Compliance Strategy

- AI16ZH plans to list on compliant exchanges, such as:
  - **Centralized Exchanges (CEXs):** Binance, Coinbase, OKX.
  - **Decentralized Exchanges (DEXs):** Uniswap, Raydium, Serum.
- Partnering with global regulatory bodies to ensure exchange compliance and prevent market manipulation risks.

9.4 Risk Control and Legal Liability

- **Regulatory Compliance Risks:**
  - AI16ZH conducts regular reviews of global blockchain regulations and adjusts strategies to ensure compliance.
- **Smart Contract Security Risks:**
  - All smart contracts undergo audits by **independent security firms** (e.g., CertiK, SlowMist).
- **Market Regulation and Compliance Disclosures:**
  - AI16ZH publishes **quarterly compliance reports** to maintain transparency with the community.
  - Transactions align with **FATF (Financial Action Task Force) Anti-Money Laundering Standards**.

Conclusion

AI16ZH is a decentralized AI computing infrastructure in the Web3 era, providing a fair, transparent and efficient AI computing marketplace for AI researchers, developers and data contributors.

With Solana's high-performance blockchain, decentralized computing network, and distributed data storage, it brings efficient, secure, and low-cost Web3 solutions to AI computing. It not only promotes the decentralization of AI computing, but also incentivizes arithmetic contributors, developers, and data providers through the token economic model to build a fair, efficient, and scalable AI computing market.

Through a scientific token economic model, transparent financing plan, and strong strategic partners, Web3 brings a decentralized, efficient, and secure solution to the AI computing market.

Token Economy Model Ensure the long-term and stable growth of AI16ZH through airdrops, pre-sales, liquidity management, and ecological rewards.

Strategic Investment Support AI16ZH has a huge advantage in technology development, marketing and trading liquidity.

With the global market layout, AI16ZH is expected to become the core infrastructure of AI computing in the Web3 era, promoting AI computing to enter a new era of decentralization.

AI16ZH's future roadmap shows a clear path from short-term technology development to long-term globalization expansion, ensuring the steady development of AI16ZH's ecosystem. At the same time, AI16ZH ensures compliance, security and long-term stability of the decentralized AI computing market through a strict legal compliance system.