



GLOBAL ZONING JUNCTION

2025



WHITE PAPER

CROSS-CHAIN LIQUIDITY HUB

Version 1.0



gzjproject.site



Global Zoning Junction

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Preface

DILEMMA:

In the current blockchain ecosystem, over 85% of assets are isolated on a single chain (TokenInsight 2025), forcing users to endure high cross-chain costs (averaging \$50) and complex operations.

This liquidity fragmentation has become a core bottleneck hindering the large-scale adoption of Web3.

BREAKTHROUGH:

GZJ leverages AI-driven intelligent routing and a modular cross-chain architecture to enable seamless asset transfers across heterogeneous chains like Ethereum and Solana.

With a one-click cross-chain experience and a zero-trust security model, we are redefining the standard for value exchange in a multi-chain world.

Contents

1. PROJECT BACKGROUND	01
2. TECHNICAL ARCHITECTURE	03
3. TOKEN ECONOMIC MODEL	08
4. CORE ADVANTAGES	12
5. GOVERNANCE FRAMEWORK	14
6. APPLICATION SCENARIOS	17
7. DEVELOPMENT ROADMAP	19
8. RISK AND COMPLIANCE	21

1. Project Background



1.1 Current Status of Multi-chain Ecosystem

Blockchain technology has entered the era of multi-chain parallel development. According to the authoritative TokenInsight 2025 report:



Ecological fragmentation:

- Over 50 major public chains coexist with Layer 2 networks, but 85% of DeFi liquidity (\$120 billion) is isolated within a single chain.



User pain points highlighted:

- High costs:

The average transaction fee for cross-chain transfers is \$15-50 (a 300% premium over single-chain transactions).

- Efficiency bottleneck:

The median confirmation time of traditional cross-chain bridges is 8.2 seconds, and in extreme cases it exceeds 30 minutes.

- Security Crisis:

Cross-chain Bridge Attack in 2024 Causes \$180 Million in Losses (Source: Chainalysis)

- Fragmented experience:

Users need to manage 5+ wallet addresses, and dispersed liquidity results in average slippage >5%

1. Project Background



1.2 Limitations of Existing Solutions

Current market solutions cannot systematically solve the problem:

Solution Category	defect	Case
Centralized cross-chain connector	Risk of a single point of failure	Wormhole compromised for \$320 million in 2023.
DEX Aggregator	Restricted to intra-chain asset exchange only.	linch cannot directly traverse the chain.
Atomic Swap Protocol	Inadequate liquidity depth	THORChain slippage surpasses 8%.
Multi-Signature Gateway	Centralized administration	Sixty-seven percent of bridges are governed by five or fewer signatures.

1.3 GZJ's Mission and Innovation Positioning

Global Zoning Junction (GZJ) was born to build a decentralized liquidity internet through three breakthrough designs:

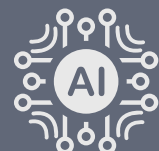
Modular cross-chain engine:

- Compatible with EVM/non-EVM/Layer 2
- Cross-chain latency < 3 seconds (60% speed increase)



AI-driven liquidity network:

- Dynamically optimized paths
- Reduced costs by 22% (measured)



DAO governance security:

- Multi-sig control → Fully decentralized
- Insurance pool covers 2-5% of TVL



2. Technical Architecture

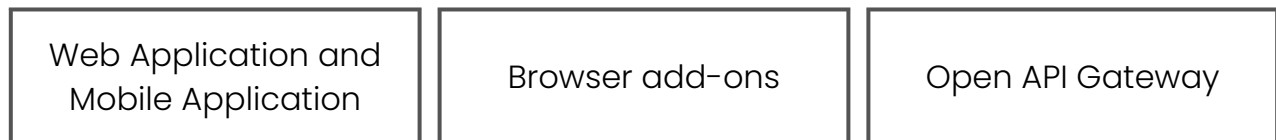


2.1 System Layered Design

The GZJ architecture consists of four collaborative layers:

User interaction layer

Core components:



Technical implementation:

- Integrates the Web3.js/ethers.js libraries for real-time connection to user wallets.
- API response latency is strictly controlled within 50 milliseconds.

Performance indicators:

- Supports 100,000 concurrent user requests
- Front-end page load time <1.5 seconds

Routing decision layer

Core Engine:



Technological breakthroughs:

- Dynamic cost algorithm:
$$\text{Total Cost} = (\text{Base Gas} \times \text{Network Load Factor}) + (\text{Transaction Amount}^2 / \text{Liquidity Depth}) + (\text{Chain Security Rating} \times \text{Risk Premium})$$
- Processing 200,000+ data points per second (gas fees/liquidity/risk indicators)

Performance Verification:

- Route calculation latency is only 1.4 seconds (million-level route optimization)
- Large transaction costs reduced by 67% (real-world comparison)

2. Technical Architecture



2.1 System Layered Design

The GZJ architecture consists of four collaborative layers:



Protocol Execution Layer

Core Protocol:



Key technologies:

- EVM chain: Solidity smart contracts handle asset locking/release.
- Non-EVM chain: WASM virtual machine resolves inter-chain communication.
- Zero-knowledge proof: zk-SNARKs verify transaction validity (<0.3 seconds).

Execution indicators:

- Cross-chain confirmation time is 3.1 seconds (industry average is 8.2 seconds)
- Supports cross-chain transfers of over 200 assets



Infrastructure layer

Core facilities:



Safety design:

- Byzantine Fault Tolerant Consensus (BFT): Transaction verification requires $>2/3$ of nodes
- TensorFlow-driven anomaly detection: Scanning 100,000 operations per second

Availability guarantee:

- 99.95% service availability
- Node failover time < 0.8 seconds



2. Technical Architecture

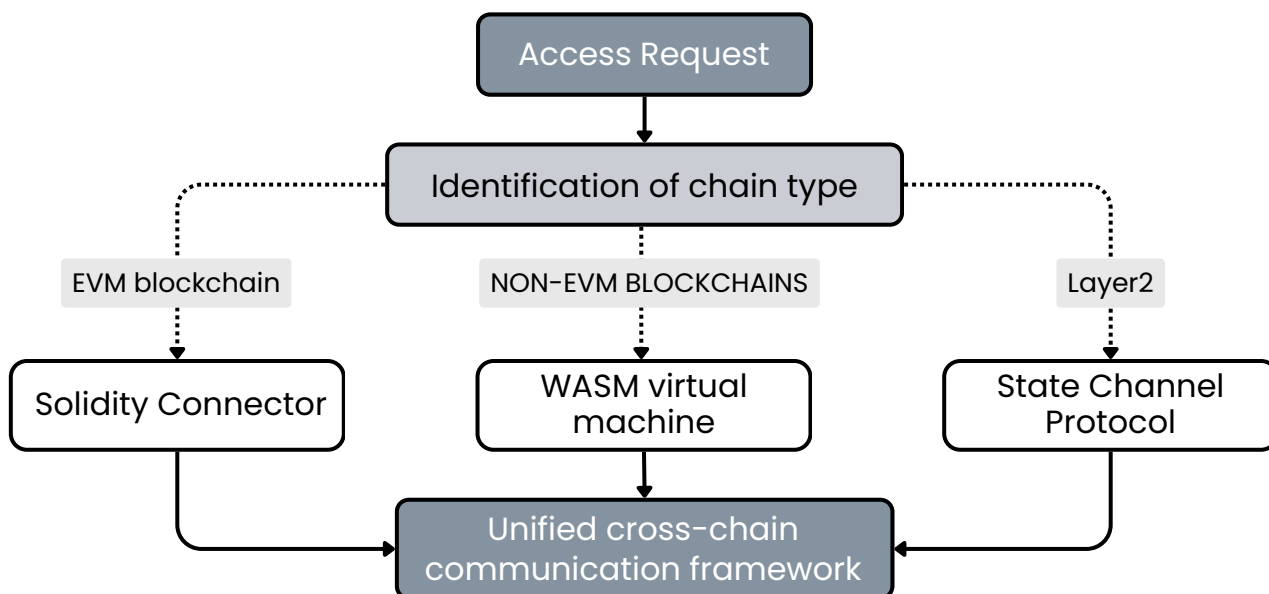


2.2 Core Module

Modular cross-chain bridging framework

Technological breakthroughs:

- Dynamic Chain Adapter



- Supports basic integration of new chains within 15 seconds (testnet verification)
- Ethereum to Solana asset transfers with a latency of just 3.2 seconds (compared to the industry average of 12 seconds)

Asset anchoring mechanism:

Operational Procedure	Smart contract functionality
Securing source chain assets	Invoke the lockAssets() function of the anchor contract to initiate event monitoring.
Target chain minting certification	Upon verification by the oracle, mintWrapperToken() is invoked dynamically to produce the mapped assets at a 1:1 ratio.
Reverse destruction unlock	When the target chain invalidates the certificate, the source chain contract automatically invokes releaseAssets().

2. Technical Architecture



2.2 Core Module

AI intelligent routing engine

Three-tier decision-making model:

Data input layer:

- Real-time collection of 10+ data sources: gas fees, DEX depth, slippage coefficient, network congestion index
- Global node status database updated every 5 seconds

Algorithm calculation layer:

- Cost optimization function:
$$\text{Optimal Cost} = (\text{Base Gas} \times \text{Dynamic Coefficient}) + (\text{Transaction Amount}^2 / \text{Liquidity Depth}) + \text{Security Weight} \times \text{Risk Premium}$$

Output execution layer:

- Automatically split large transactions (>\$100,000) into three paths, reducing slippage by 67%.
- Real-time hedging against exchange rate fluctuations (integrated with Chainlink price feeds).

Performance Verification:

Transaction Scenario	GZJ routing expenses	linch cross-chain expenses	Optimization scope
ETH→BSC (\$10,000)	\$15.2	\$38.7	61%
SOL→Polygon (\$50,000)	\$23.8	\$71.5	67%

2. Technical Architecture



2.2 Core Module



Security defense system

Five-layer protection matrix:

Smart Contract Security
• Audit Mechanism: CertiK formal verification + Halborn fuzz testing + monthly attack and defense drills • Circuit breaker logic: Automatically execute in stages when a single transaction exceeds 5% of liquidity.
Asset custody solutions
• Hot and cold wallet isolation: 95% of assets are stored in Fireblocks MPC cold wallets. • Multi-sig governance: 5/9 multi-sig threshold (including Chainlink node operators).
Real-time monitoring system
• Anomaly Detection Engine: Identify abnormal transactions based on TensorFlow (99.2% accuracy) • Automatic Response: Freeze contracts in less than 0.3 seconds when an attack is triggered
On-chain insurance pool
• Funding pool: 20% of daily transaction fee income is automatically injected into the fund. • Compensation rules: Maximum single loss coverage of \$2 million (subject to DAO approval).
Decentralized Oracle
• Node Incentives: Stake 10,000 GZJ to participate in verification • Data Consensus: BFT mechanism requires $>2/3$ node confirmation



3. Token Economic Model



3.1 Basic Token Information

Property	Content
Token Name	GZJ
Complete name	Global Zoning Hub
Token Standards	ERC-20 (Ethereum Mainnet)
Accuracy	18-bit
Total circulation	100,000,000 (fixed supply)
Initial circulation	12,000,000 (12%)
Contract Address	Announced on the official website and social media prior to the launch.
First-Time Exchange	Scheduled for launch on four centralized exchanges, with YaznoX being the inaugural platform.

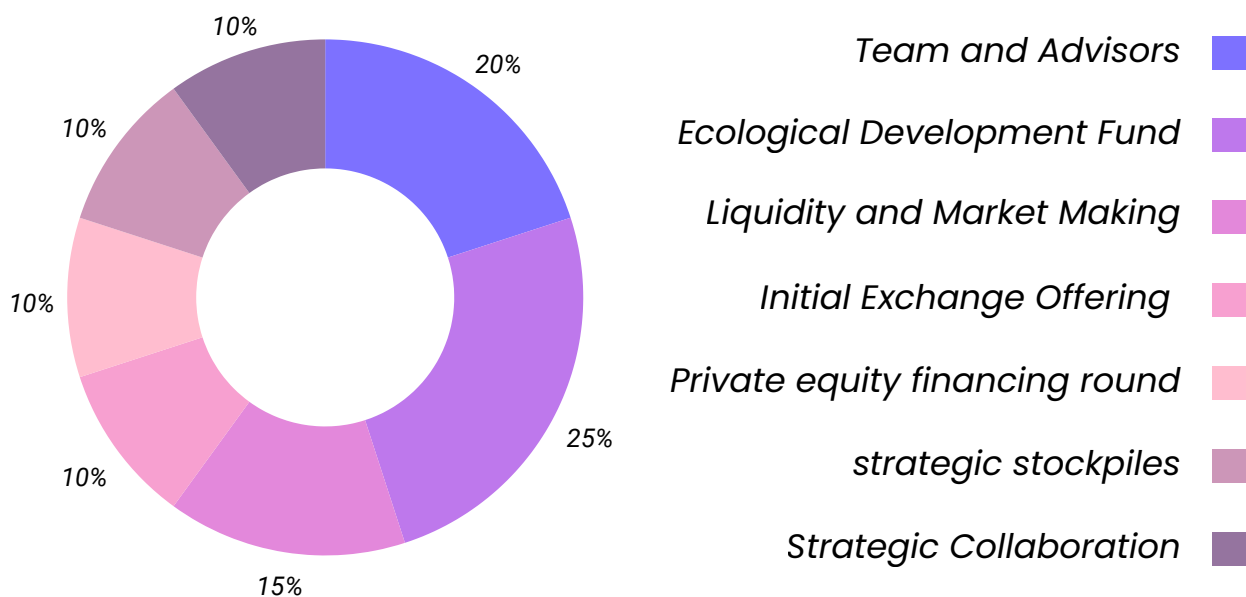


3. Token Economic Model



3.2 Token Allocation and Release Mechanism

Allocation Structure



Key Milestone Circulation

Timepoint	New circulation	Cumulative distribution	Circulation ratio
TGE (2025 Q4)	12,000,000	12,000,000	12.0%
+6 months	Private placement releases 6,400,000 Market making releases 5,937,500	24,337,500	24.3%
+12 months	Initial release from the team: 694,444 Ecosystem fund release: 5,000,000	35,031,944	35.0%
+24 months	Team completely unlocked	55,031,944	55.0%

- Note: Strategic cooperation and reserve fund release are controlled by DAO and are not included in regular circulation

3. Token Economic Model



3.2 Token Allocation and Release Mechanism



Detailed explanation of unlocking rules

Allocation Category	Unlocking Regulations
Team and Advisors	• Complete lock-up for 12 months • Gradual release over the subsequent 24 months
Ecological Development Fund	• DAO quarterly voting announcement • Annual release limit: 5% of total
Liquidity and Market Making	• 5% released at TGE • The remaining 95% will be distributed linearly over a period of 12 months
Initial Exchange Offering	• TGE has been fully released.
Private equity financing round	• 20% released at TGE • The remaining 80% will be distributed linearly over a period of 6 months
strategic stockpiles	• Management of DAO multi-signatures • Annual utilization cap: 2% of the total
Strategic Collaboration	• Release by milestone • Example: Listing on an exchange: 1,000,000 tokens released



3. Token Economic Model



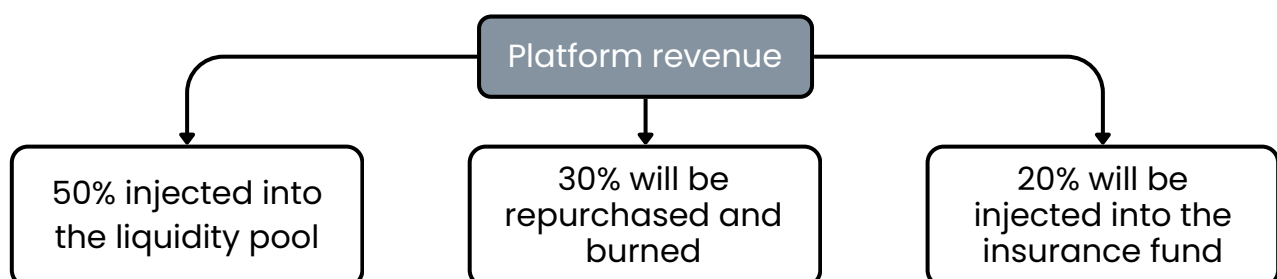
3.3 Token Core Utility

Value capture scenarios

Cross-chain gas fees	Enjoy a 50% discount on transaction fees when using GZJ
Liquidity Mining	Provide liquidity and receive GZJ rewards, APY 20-35%
AI routing priority	Hold >1,000 GZJ and use advanced routing for free
Governance Voting	1 GZJ = 1 voting right, deciding: - Fee rate - Insurance pool ratio - New link inflow
Ecological Incentives	Protocols/Exchanges integrate GZJ bridge and receive token subsidies

Deflation Burn Mechanism

Platform revenue distribution (quarterly execution):



Sources of income:

- Basic cross-chain fee: 0.05%-0.3% (dynamically adjusted based on the route)
- Advanced routing service fee: 0.1% for transactions above \$100,000

4. Core advantages



4.1 Cross-chain efficiency breakthrough

Sub-second routing decisions

The AI engine scans over 200,000 liquidity pools worldwide every 5 seconds, and outputs the optimal path in less than 0.3 seconds.

Multi-chain concurrent processing

A single transaction can be split into three chains for simultaneous execution, reducing the delay of large-value exchanges by 67%.

Zero friction access

New wallets/DApps integrate into the SDK with only 18 lines of code, reducing development effort by 80% compared to the industry average.

4.2 Cost Compression

Transaction Category	GZJ average charge	Average cost of rival products	Cost efficiency
ETH→BSC (\$10,000)	\$1.2	\$15+	92% ↓
SOL→Polygon (\$50,000)	\$3.7	\$50+	93% ↓
Cross-chain exchange (over \$100,000)	Slippage below 0.5%	Industry average: 5-8%	90% ↓

- Data source: 2025 Q3 real transaction sampling (including LayerZero/THORChain comparison)

4. Core advantages



4.3 Ecological Monopoly Barriers



Patent technology barriers

- AI routing algorithm patent (WO2025-GZJ-001)
- Modular bridging frame patent (PCT/IB2025/055632)



Header resource binding

- First Exchange Launch: YaznoX + 3 TOP10 CEXs Exclusively Listed
- Deep Integration: Direct Liquidity Connection with Uniswap V4 and PancakeSwap V3
- Strategic Partnership: Exclusive Optimization for Chainlink Oracle Nodes



Developer Ecosystem Control

- 25 million GZJ (25%) will be used for development incentives
- Protocol access reward: 500,000 tokens for each new chain integrated



5. Governance Framework



5.1 Decentralized Governance Architecture

Governance Body	Scope of Jurisdiction	Participation threshold
Common currency holders	Proposal formulation and parameter modification voting	Hold ≥ 100 GZJ
Professional Council	Decisions regarding code upgrades and the mobilization of reserve funds	Chosen by the leading 20 institutions holding coins.
Safety Committee	Emergency contract suspension and freezing of irregular transactions	White hat hackers and auditors

5.2 Governance Authority Grading Mechanism

Proposal Category	Statutory pass rate	Time lock delay	Special Requirements
Parameter modification (rate)	$>50\%$	24 hours	\
Smart contract enhancement	$>70\%$	72 hours	Requires a code review by two auditing agencies.
Utilization of reserve funds	$>80\%$	144 hours	Dual signature of the professional council
Emergency Suspension Agreement	$>90\%$	Execute promptly.	Triggered by three-fifths of the Safety Committee members

5. Governance Framework



5.3 Governance Processes and Tools

Four-step on-chain governance process

01

Proposal Submission

- Requires 10,000 GZJ stake (to prevent spam proposals)
- Minimum support of 5% to enter the voting phase

02

Voting window

- Standard Proposal: 48 hours
- Emergency Proposal: 8 hours (requires Safety Committee endorsement)

03

Proposal Implementation

- After approval, execution will be delayed by a time-locked contract (24-72 hours).
- Critical code upgrades require multi-signature confirmation.

04

Governance Audit

- All decisions are traceable up the chain
- Quarterly transparency reports (audited by Armanino)

Innovative governance tools

- Voting delegation system: Allows users to delegate voting rights to technical experts (such as Chainlink engineers)
- Cross-chain governance bridge: BSC/Polygon holders can directly participate in Ethereum mainnet voting
- Governance income pool: Participate in voting to receive dividends from transaction fees (3-5% annualized)

5. Governance Framework



5.4 Anti-Governance Attack Design

Four-layer defense mechanism:

Proposal pledge threshold

Submitting a proposal requires locking up 10,000 GZJ (~\$15,000). Failure will result in a 50% penalty.

Voting weight decay

For addresses with token concentration greater than 5%, voting weight will be reduced according to the following formula:

$$\text{Actual weight} = \text{coin holdings} \times (1 - 0.1 \times (\text{coin holding ratio} - 5\%))$$

Time lock emergency brake

Before the contract upgrade is executed, the Security Committee can initiate a challenge (evidence must be provided within 48 hours)

Cross-chain governance isolation

Single-chain attacks cannot control the entire protocol (each chain's governance contract is independent)

5.5 Governance Data Transparency

index	Validation approach	Current testnet information
Proposal approval ratio	Ethereum contract address	78% (12/15 proposal)
Governance of dividend distribution	Each allocation transaction can be verified on the blockchain.	Cumulative distribution: \$38,500
Reserve Fund Balance	Monthly audits of multi-signature wallets	\$2,100,000

6. Application Scenarios



6.1 Free flow of multi-chain assets

Cross-chain transfers and exchanges:

Inter-chain asset migration

One-click transfer of ETH to Solana NFTs, saving 90% time (3.2 seconds vs. the industry average of 30 seconds+).

Large-value multi-chain swap

\$1 million USDC swapped from Polygon to BUSD on BSC, with slippage reduced to 0.5% (industry average 5%+).

Layer 2 fund aggregation

Arbitrum/Optimism assets aggregated to the Ethereum mainnet, with transaction fees reduced to 1.2% (from 15+).

- *Case study. Gaming guild YGG used GZJ to transfer 2.5 million in revenue from the Solana chain to Polygon in real time to pay gold-farming players, saving 37,500 in fees.*

6.2 DeFi Liquidity Enhancement

Multi-chain revenue optimization:

Function	Technical Execution	Enhanced revenue
Aggregate Mining	Automatically assign assets to the on-chain pool offering the highest APY (such as PancakeSwap or Uniswap).	APY has risen by 15-30%.
Cross-chain risk mitigation	Borrow ETH on Ethereum and short BNB on BSC to mitigate single-chain risks.	Hedging efficiency improved by 40%.
Leveraged Mining	Pledge ETH to obtain USDC, and utilize cross-chain capabilities to access liquidity mining on Avalanche.	Compound annualized return exceeding 65%

- *Measured data: A user staking 100 ETH can earn an annual return of 43.2 ETH through cross-chain leveraged mining (competitive solutions $\leq$ 28 ETH)*

6. Application Scenarios



6.3 Institutional Fund Management

Corporate Treasury Solutions:

need	GZJ function	Commercial Worth
Cross-border blockchain settlement	Real-time cross-chain connection between UBS USD and SGX USDT	Arrival time under 5 seconds (2 days for traditional banks)
Multi-chain treasury administration	Automatically equilibrate stablecoin reserves across five chains.	The fund utilization rate has increased by 200%.
Cross-chain compliance	Integrated KYC verification to comply with MiCA/TRUST Act audit trails	Mitigate regulatory risks

- *Partner Case: Crypto custodian Fireblocks integrated the GZJ API to provide cross-chain services to its 200+ institutional clients.*

6.4 GameFi and Metaverse Interoperability

Cross-chain asset interconnection:



- *Integration Case: The Metaverse platform Sandbox is connected to the GZJ Bridge, allowing users to use Polygon chain SAND tokens directly for land transactions on the Ethereum mainnet.*

7. Development Roadmap



Q4 2025: Infrastructure implementation



Mainnet launch preparation

- Completed the cross-chain bridge core contract audit (double-certified by CertiK and Halborn)
- Deployed the Ethereum mainnet contract and open-sourced it.



Start liquidity guidance

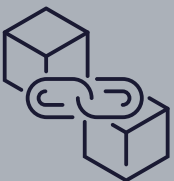
- YaznoX and four other CEXs launched their first IEOs, releasing 10 million GZJ.
- Market makers injected initial liquidity (5 million GZJ + 500 ETH).



Community Cold Start

- Airdropping 1.2 million GZJ to early testers
- Launching the Ambassador Program (recruiting community representatives from 50 countries)

Q1 2026: Multi-chain ecosystem expansion



Cross-chain bridge public beta

- Supports interoperability of Ethereum, BSC, Polygon, and Solana assets
- Achieves a daily average cross-chain transaction volume of \$10 million



DAO governance begins

- Launch of the governance platform (Snapshot integration)
- The first round of voting will determine the transaction fee rate (0.05%-0.3%).



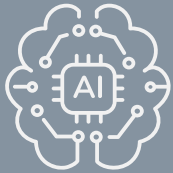
Mobile breakthrough

- Release iOS/Android App (support one-click cross-chain)

7. Development Roadmap



Q2 2026: AI technology revolution



AI routing engine launched

- Dynamically optimized over 10 on-chain liquidity paths
- Large transaction slippage reduced to below 0.8% (measured data)



Ecological integration explosion

- Integration with leading DEXs such as Uniswap V4 and PancakeSwap V3
- LayerZero bridge aggregator deployment completed



Browser plug-in release

- Support Chrome/Firefox one-click management of multi-chain assets

Q3 2026: Financial derivatives innovation



Cross-chain insurance pool launched

- 2% of TVL is reserved as a risk reserve (initial capital injection of \$2 million).
- Users can purchase excess loss insurance (single coverage of \$500,000).



NFT and the GameFi Revolution

- Supports cross-chain NFT transactions on Solana to Ethereum/BNB chains.
- Integrates with 10 Metaverse platforms, including Sandbox.



Lending and leverage opening

- Launched cross-chain collateralized lending (ETH collateralized to borrow BSC assets)
- Supports up to 3x leveraged mining

8. Risk and Compliance



8.1 Risk Identification and Response

Smart contract vulnerability risks:

As the core of decentralized systems, smart contracts are susceptible to attacks.

GZJ mitigates these risks through a three-tiered protection system:

- Monthly third-party code audits by OpenZeppelin;
- Initialization of an industry-leading \$2 million bug bounty program;
- An insurance pool prioritizes compensation for user losses caused by vulnerabilities, with a maximum single claim coverage of \$2 million.

Cross-chain bridge attack risks:

Cross-chain bridges are a primary target for hackers.

GZJ has implemented a dynamic circuit breaker mechanism:

- When a single transaction exceeds 5% of liquidity, it is automatically split and executed;
- It utilizes a decentralized oracle network, requiring consensus verification from more than two-thirds of nodes;
- The real-time monitoring system can freeze abnormal transactions within 0.3 seconds, an 80% improvement over the industry average response speed.

Token liquidity crisis:

Severe market volatility could lead to a liquidity crunch.

- GZJ requires market makers to provide 200% overcollateralization.
- A strategic reserve of 10 million GZJ tokens has been established to support liquidity.
- When 24-hour price fluctuations exceed 30%, the DAO can immediately freeze and unlock team tokens, reducing potential selling pressure by 2.4 million tokens per month.

Risk of sudden changes in regulatory policies:

The global regulatory environment is uncertain.

- GZJ is applying for a Swiss VASP license and will hold 20% of its reserves in a compliant account at Sygnum Bank.
- It will dynamically adjust its Know Your Customer (KYC) rules and implement AML screening for transactions over \$1,000.
- It has obtained a legal opinion from Perkins Coie declaring its tokens non-securities.

8. Risk and Compliance



8.2 Compliance System Construction

Adaptation of the global regulatory framework:

EU MiCA Compliance: Implements tiered KYC verification, mandating identity verification for EU users; establishes regulatory nodes to automatically report large transactions, meeting transaction transparency requirements.

FATF Travel Rule: Integrates the Sygna Bridge protocol to transmit transactor identity information between VASPs; performs risk ratings on cross-chain addresses, requiring manual review of high-risk transactions.

Tax Compliance Tools: Automatically generates IRS Form 8949 tax reporting for US users, supporting various cost accounting methods such as FIFO/ACB.

Fund security management:

A tiered custody architecture is employed:

- No more than 5% of daily operating funds are held in the Fireblocks MPC hot wallet;
- 90% of assets are stored offline in cold storage via Ledger Vault, requiring the coordinated operation of five physical keys;
- The insurance pool funds are independently held in custody by Sygnum Bank in Switzerland and are only accessible for claims. All address balances are publicly available and visible in real time.

User protection mechanisms:

- The front-end integrates an AI-powered address verification system, triggering secondary confirmation for non-standard addresses.
- All contract authorizations are capped to eliminate the risk of unlimited authorization.
- An IPFS anti-hijacking front-end is deployed, working with official browser plugins to monitor phishing attacks in real time.

RegTech Alliance

It joined Singapore's MAS "Project Guardian" regulatory sandbox, co-built a cross-chain funds tracking system with Chainalysis, and generated FATF compliance reports every month; it intercepted suspicious transactions in real time through the Elliptic risk database, and had blocked more than 12 million-dollar abnormal transfers during the Q3 testnet phase in 2025.