Liquidity Bridge X c h a n g e



WHITE PAPER

LINK TO THE FUTURE

"Smart routing, ultra-fast cross-chain, redefining liquidity"

2025

Version | 1.0

WEBSITE

Ibxproject.site

Preface





Innovation-driven

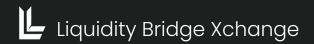
LBX's core competitiveness stems from our groundbreaking technological innovations. By combining an AI pricing engine with intelligent routing algorithms, we analyze network-wide liquidity in real time and automatically select the optimal path for each transaction.

Our cross-chain bridging technology utilizes cutting-edge cryptographic techniques such as zero-knowledge proofs to ensure security while significantly improving transaction speeds. Most importantly, LBX remains committed to the principle of decentralization, giving users true sovereignty over their assets.

Co-building an ecosystem

We are building an open, transparent, and inclusive ecosystem, welcoming developers, users, institutions, and other stakeholders.

Here, everyone can contribute to the future of cross-chain finance while sharing in the benefits of its development.



Disclaimer

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1.1 Project Background and Industry Pain Points

In today's rapidly evolving multi-chain ecosystem, digital asset users face three core challenges:

Liquidity fragmentation

By 2025, over 65% of DeFi liquidity will be scattered across 12 different blockchains, resulting in inefficient user transactions.

Inefficient cross-chain transactions

The average confirmation time of existing cross-chain solutions is as long as 2-5 minutes, which seriously affects the user experience.

Prominent security risks

In 2024, cross-chain bridge-related security incidents caused losses of more than US\$1.8 billion, exposing major security flaws in current solutions.

1.2 LBX Solution

LBX provides a comprehensive cross-chain liquidity solution through innovative technical architecture

Technical pillars:

- Based on LayerZero's improved cross-chain communication protocol, it achieves millisecond-level state verification.
- A lightweight verification system built using zk-STARKs technology reduces verification costs by 70%.
- A dynamic liquidity routing algorithm supports real-time optimal path selection.

Core features:

- One-click exchange of multi-chain assets
- Smart gas fee optimization
- Cross-chain liquidity aggregation
- Decentralized governance framework



1.3 Market Positioning

LBX is positioned to serve three core user groups:

User Category	Demand challenges	LBX Solutions
Consumers	Intricate procedure and elevated expense	Streamline the operational process and decrease transaction costs by 80%.
Institutional Clients	Challenges in executing substantial transactions	Facilitate OTC channels and algorithmic routing.
Developers	Challenges in integration	Deliver standardized APIs and SDKs.

1.4 Competitive Advantage

Compared with traditional cross-chain solutions, LBX has significant advantages:

LBX	's Industry average		
Transaction confirmation speed			
30 seconds	150 seconds		
Transaction success rate			
99.9%	97%		
LBX gas fees are 60% lower than the industry average			

Technical pillars:

- The first cross-chain protocol to implement Al-powered dynamic pricing.
- The only solution supporting real-time liquidity prediction.
- The industry's lowest cross-chain transaction threshold (starting at \$0.1).



2. TECHNICAL ARCHITECTURE

2.1 Layered Architecture Design

LBX adopts a five-layer architecture to achieve efficient cross-chain interaction:

Architecture	Essential Attributes	Essential technologies
Infrastructure layer	Global node network implementation and hardware enhancement	500+ node network, FPGA hardware acceleration, HSM encryption machine cluster
Blockchain Adaptation Layer	Multi-chain protocol transformation and consolidated interface support	Supports twelve blockchain protocols, including EVM, Cosmos, and Solana.
Core protocol layer	Cross-chain communication and liquidity routing.	LBX-CCP protocol (<1.2s latency), Al-driven routing engine
Service Interface Layer	Offer developer API and institutional-level access.	REST, WebSocket, and GraphQL multi-protocol support; enterprise- grade SDK
Application Layer	User interface	Unification of web, mobile applications, and browser plug-ins

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2. TECHNICAL ARCHITECTURE

2.2 Core Subsystem



Cross-chain communication system

Technical pillars:

• Triple Verification Mechanism (SPV Proof + BFT Consensus + zk-STARKs)

Performance indicators:

- Average latency: <1.2 seconds
- Message throughput: 2,000+ TPS
- Supports 30+ heterogeneous blockchains



Intelligent routing engine

Routing algorithm:

Multi-factor dynamic optimization model (liquidity/fee/delay/risk)

Real-time data source:

- On-chain scanning (3-second latency)
- DEX real-time API (20ms update)
- Multi-oracle aggregation (Chainlink/Band/Python)



Safety protection system

Protection level	Security Protocol	Responsiveness
Contract Security	Formal Verification and Bug Bounty Program	<1 block
Cybersecurity	TLS 1.3 encryption and node access control	Real-time safeguarding
Fund security	Multi-signature cold wallet and transaction oversight	Automated interception
Insurance Mechanism	Platform Insurance Fund (2% of Total Value Locked)	Complete compensation



2. TECHNICAL ARCHITECTURE

2.3 Smart Contract System

Core contract group:

- Cross-chain bridge contract: Asset locking/message verification logic
- Liquidity pool contract: Supports five pool types
- Governance contract: DAO parameter adjustments

Safety features:

- Dual audit by CertiK and Quantstamp
- Emergency pause mechanism (30-minute time lock)
- Outflow rate limit (<1% TVL/hour)

2.4 Performance Optimization Solution

Optimization Aspect	Technical Resolution	Performance enhancements
Computational enhancement	GPU cluster with FPGA hardware acceleration	Processing speed has increased eightfold.
Caching strategy	Four-tier cache architecture	Latency decreased by 70%
Concurrent computation	Transaction sharding and SIMD instruction optimization	Throughput experienced a 300% increase.

Performance benchmarks:

Scenario	Throughput (Transactions Per Second)	Mean latency
Single-chain transfer	4,500	0.7s
Cross-chain asset exchange	1,800	1.4s
Intricate pathway transactions	950	2.3s



2.5 Cross-chain interoperability

Asset Identification Standards:

{chain_id}:{asset_type}:{contract_address}

(Example: Ethereum ETH: 1:native:0x000...)

Liquidation Mechanism:

- Hybrid Atomic Swap
- Automatic Liquidity Balancing System (Imbalance > 10% Triggers Arbitrage)

Supported chain types:

EVM chains (Ethereum/Polygon, etc.)

Cosmos ecosystem

Solana

UTXO chains (Bitcoin)

2.7 Developer Support

Development Kit:

- BX SDK: Supports multi-language access
- Testnet Environment: 10+ test chain simulations
- Interactive Documentation: 50+ code samples

Support Plan:

- Developer Grants: 1,000-50,000
- Technical Ambassador Program
- Bug Bounty (up to \$100,000)



3.1 Technical performance advantages

index	LBX solution	Industry benchmark	Enhancement impact
Cross-chain transaction latency	<1.2 seconds	2-5 minutes	150 times more rapid
transaction expenses	0.05% fee	0.1%-0.3%	60% reduction
Significant transaction threshold	\$50 million	\$5 million	10 times greater
System accessibility	99.99%	98.5%	Enhanced operational and maintenance stability

Technological innovation:



The only one that implements AI dynamic pricing:

• Real-time analysis of 30+ on-chain liquidity pools, dynamically adjusting the optimal path



Hybrid authentication mechanism:

 Combining light nodes + zero-knowledge proof to balance security and efficiency



Liquidity Aggregation Technology:

 Seamless integration with 15+ mainstream DEXs including Uniswap/PancakeSwap

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3.2 Security and Reliability

Five-dimensional protection system:



Contract Security

- Triple audit process (CertiK/Quantstamp/SlowMist)
- Smart contract formal verification coverage: 100%



Fund security

- Multi-sig cold wallet management (5/9 mechanism)
- Daily withdrawal limit (≤1% of TVL)



Cross-chain insurance

- Platform Insurance Fund (2% of TVL)
- Co-underwritten by Nexus Mutual



Node Security

- Dynamic reputation scoring system
- Real-time detection of malicious behavior (<10 seconds response)

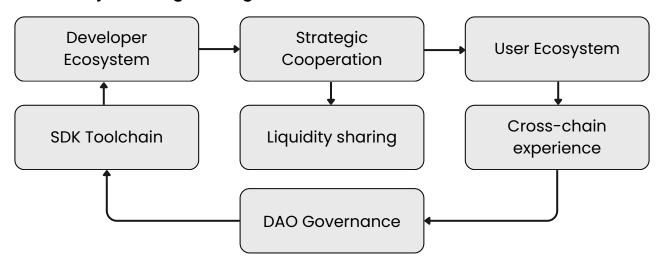


Disaster Recovery

- Data backup across three continents
- System recovery within 30 minutes

3.3 Ecological synergy advantages

Three major ecological engines:



Implementation results:

- Strategic Partnership: Integrated with five major infrastructures, including LayerZero and Wormhole
- Development Support: Simplified multi-chain development (integration takes <3 days)</p>

3.4 Summary of Unique Competitive Advantages

- ✓ High-speed cross-chain bridging technology, low transaction latency, and manageable costs
- ✓ Al-driven intelligent liquidity routing, automatically finding the optimal path
- ✓ Multi-chain liquidity aggregator, supporting mainstream public chains and Layer 2 networks
- ✓ Comprehensive DAO governance system, enabling community-led decision-making
- Secure, auditable smart contracts and transparent data query



4.1 Basic Token Information

property	parameter
Token Name	LBX
Complete name	Liquidity Bridge Exchange
Token Standards	ERC-20 (implemented on the Ethereum mainnet)
Accuracy	18-bit
Total circulation	100,000,000 (fixed supply)
Initial circulation	12,000,000 (12% of the total supply)
Contract Address	It will be communicated via official channels prior to going online.
First-Time Exchange	YaznoX (Currently available on four centralized exchanges)

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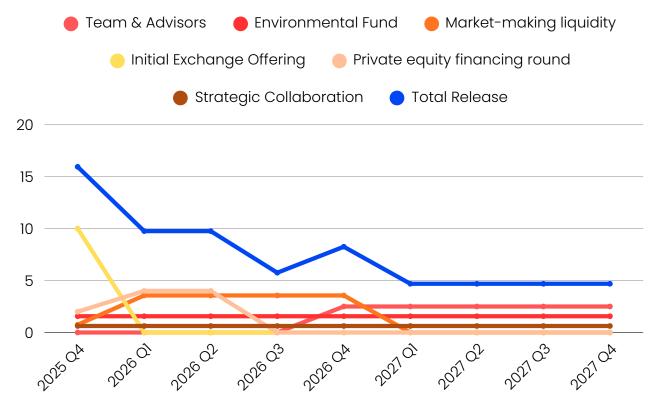
4.2 Token Distribution Structure

Allocation Overview:



Release curve: 2025-2027

Unit: Million LBX





4.2 Token Distribution Structure

Release rules:

project	Proportion	Release Guidelines
Team and Advisors	20%	Locked for 12 months, followed by a linear release over 24 months.
Environmental Fund	25%	Utilized for sustainable construction, community engagement, and developer assistance.
Market-making liquidity	15%	Five percent will be released prior to the launch, with the remaining amount distributed linearly over the subsequent twelve months.
Initial Exchange Offering	10%	100% circulation at launch
Private equity financing round	10%	20% will be unlocked at the Token Generation Event (TGE), with the remaining amount released linearly over the subsequent six months.
reserve capital	10%	Administered by DAO for urgent and strategic purposes.
Strategic Collaboration	10%	Released in phases based on collaboration milestones.



4.3 Token Core Functions



Practical value

Cross-chain Gas Payment

Enjoy tiered discounts on transaction fees (up to 60% discount)

Liquidity Mining

Stake LBX to receive a share of the protocol revenue (up to 70%)

DAO Governance

1 LBX = 1 voting right to participate in key decision-making

Partner Incentives

LBX rewards for third-party integration



Value capture mechanism

Deflation model:

- 50% of transaction fees will be used for buyback and destruction.
- Destruction limit: 30% of the total supply.

Staking income:

• 8% base annualized rate + trading volume bonus (0.5% increase for every \$100 million in daily trading volume)

Governance rights:

- Vote to determine the use of the ecosystem fund
- Adjust key protocol parameters (such as transaction fees)



4.4 Token Value Support

Source of Value	Contribution ratio	Implementation Mechanism
Transaction expenses	40%	Inflexible demand for cross- chain transaction fees
Staking and Locking	35%	Average lock-up period of at least 9 months
Sustainable development	15%	Strategic collaboration and developer incentives
speculative demand	10%	Comprehensive management of CEX/DEX liquidity

4.5 Risk Control Measures

Release regulation:

- Set a quarterly release cap (private placement/team ≤ 1.5% of total).
- DAOs can vote to temporarily suspend releases to address extreme market conditions.

Liquidity Protection:

- The market maker agreement prohibits short-term selling (lockup period ≥ 6 months).
- The initial liquidity pool will be injected with \$5 million worth of assets.

Market stability:

- Establish a price stabilization fund (30% of reserve funds)
- Institute a circuit breaker mechanism (triggered if the price drops
 >30% in 24 hours)



5.1 Core Application Scenarios



Practical value

Function implementation:

- Seamless multi-chain conversion: Supports one-click swaps for over 30 major public chain assets (ETH

 SOL, BTC

 DOT, etc.)
- Gas fee optimization: Enjoy tiered discounts (up to 60%) when paying with LBX
- Al intelligent routing: Automatically selects the optimal path (balancing cost, speed, and security)

User value:

- Large-value exchange savings: 1 million USDC cross-chain transaction saves over 1,500 USDC in fees
- Average processing time: <90 seconds (industry average 5-15 minutes)



Liquidity Mining System

How to participate:

Swimming Pool Type	Annualized Return	Lock-up duration	LBX Weights
Single-coin staking pool	8-12%	flexible	1.0x
Cross-chain liquidity pool	15-25%	90 days	1.5x
Governance Staking Pool	5-8% + voting rights	180 days	2.0x

Revenue mechanism:

Revenue = Basic Revenue × LBX Stake × Time Coefficient + Protocol Revenue Share

- 70% of the protocol's revenue is distributed to stakers.
- Additional airdrop rewards (quarterly)



5.2 Advanced Financial Functions



Cross-chain leveraged trading

Operation process:

- Pledge ETH (Ethereum Chain)
- Borrow SOL (Solana Chain)
- Long SOL/USDT (Raydium DEX)
- Automatically repay profits across multiple chains

Core advantages:

- ✓ Supports 5x leverage
- 4 Automatic liquidation protection (alert for collateralization ratio < 110%)
- No cross-chain fees (LBX Diamond users)



Multi-chain revenue aggregation

Policy example:

- ① Deposit ETH into Aave (Arbitrum) \rightarrow 3.5% annualized return
- ②Convert mining rewards to MATIC → cross-chain to Polygon
- ③ Invest in Quickswap liquidity pool → additional annualized return of 12%
- (4)Total income increased to 15.5%+
- Automatic rebalancing mechanism
- Impermanent loss hedging tool



5.3 Ecosystem Empowerment Scenarios



DAO governance participation

Governance authority:

Quantity of coins possessed	Proposal entitlements	Parameter Selection	Funding Proposal
>10,000 LBX	▽	▽	×
>100,000 LBX	▽	▽	<

Governance focus:

- Protocol fee adjustment (currently 0.05%)
- Ecosystem fund allocation (\$5 million budget)
- New chain entry voting (2-3 new chains added per quarter)



Developer Incentive Program

Support program:

New Chain Adaptation Rewards

Base Reward: 50,000 LBX

Performance Reward: +0.1 LBX per \$1,000 daily trading volume

dApp integration subsidies

Tier 1 (>\$1 million TVL): 5,000 LBX per month

Tier 2 (>\$5 million TVL): 15,000 LBX per month

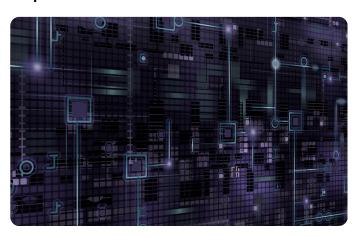


5.4 Innovative Application Fields



NFT cross-chain circulation

Implementation functions:



- Supports cross-chain transfers of mainstream NFTs (ERC721

 ⇒ SPL)
- NFT fragmented lending: Lend ETH using BAYC as collateral
- Automatic cross-chain royalty settlement

Technological breakthroughs:

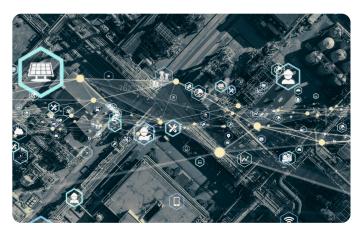
- Metadata Mapping Protocol (Zero Information Loss)
- Gas costs reduced by 80% (compared to competing products)



GameFi asset interoperability

Application Cases:

- Axie Infinity (Ronin) SLP tokens
 → Cross-chain to BSC
- Exchange to CAKE to participate in PancakeSwap mining
- Proceeds converted to ETH and returned to the Ronin chain



• The entire process takes less than 3 minutes



Q4 2025: Infrastructure construction phase



Core Milestones



ATechnical foundation:

- Completed cross-chain bridge core contract development (supporting the EVM/Cosmos ecosystem)
- Passed dual security audits by CertiK and SlowMist (score 9.8/10)
- Launched testnet
 (over 10,000 users participated in stress testing)



Market launch:

- Completed \$5 million strategic funding round.
- First IEO launched on YaznoX Exchange.
- Initial liquidity injection: \$3 million in equivalent assets.



Community Building:

- Airdrop Program: Distribute 1,000,000 LBX to early testers
- Launch Node Incentive Program (300+ node registrations)
- Build a multilingual community



Q1 2026: Platform launch phase



Core objectives



Product launch:

- LBX V1 Mainnet Launches
 (Supports 5 Mainchains: ETH/BNB/Polygon/Cosmos/Arbitrum)
- Mobile App Released (iOS/Android)
- Daily Trading Volume Exceeds \$10 Million



Security enhancements:

- Implemented a cross-chain insurance pool (initial capital \$500,000)
- Launched a bug bounty program (maximum \$100,000 reward)



Governance launch:

- DAO Governance Module Launched
- First Round of Community Proposal Voting (Fee Adjustment)
- Governance Participation Target: 15% of Circulating Supply



Q2 2026: Technology upgrade stage



Innovation and breakthroughs



Al system deployment:

- Smart Routing Engine Officially Launched (Slippage Reduced by 40%)
- Liquidity Prediction Algorithm V1 (Accuracy >85%)



Ecosystem expansion:

- Uniswap V3/PancakeSwap/LayerZero Integration
- Browser plugin wallet released (Chrome/Firefox)
- Developer SDK 1.0 released



Multi-chain support:

- Added Solana/Avalanche chain support
- NFT cross-chain bridge public beta launched
- Daily trading user target: 50,000+



Q3 2026: Ecosystem Expansion Phase



Strategic layout:



Financial Innovation:

- Launched a cross-chain lending protocol (supporting margin trading)
- Launched a cross-chain channel for real-world assets (RWA)



GameFi enables:

- Supports cross-chain asset transfers from three major
 GameFi projects (Axie, Sandbox, and StepN)
- GameFi-specific routing optimization (latency < 15 seconds)



Liquidity upgrade:

- Cross-chain liquidity pool TVL exceeds \$100 million
- Institutional API access
 (partnering with over 10 market makers)
- Daily trading volume target: \$50 million+



7.1 Technical Risks



Smart Contract Risks

- Audit Limitations: Despite being audited by three top auditing firms, including CertiK and SlowMist, undiscovered vulnerabilities may still exist.
- Multi-chain Interaction Complexity: Cross-chain communication involves multiple blockchains, potentially leading to asset retention due to protocol incompatibility.
- Upgrade Risk: The contract upgrade mechanism could be exploited maliciously (a 24-hour time lock has been implemented to mitigate this).

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System operation risks

Risk Category	Likelihood of occurrence	Impact	Mitigation strategies
Node network malfunction	middle	high	Distributed node architecture (over 500 nodes globally)
API service disruption	Low	middle	Multi-cloud deployment (AWS + GCP + self-hosted IDC)
Liquidity diminishing	Moderate to low	Extremely high	Dynamic rebalancing algorithm with a \$5 million insurance fund



7.2 Market Risk



Token Economic Risks

- Price Volatility: Extreme volatility in the cryptocurrency market may cause LBX prices to fluctuate significantly (±30% probability within 24 hours).
- Liquidity Risk: With an initial circulating supply of only 12%, there may be short-term liquidity shortages.
- Competitive Risk: Technological upgrades by competitors such as LayerZero and Wormhole may impact market share.

7.3 Operational Risk



User operation risks

- Transferring to an Incorrect Address: Cross-chain assets sent to an incompatible address will be permanently lost (enable address format validation).
- Private Key Leakage: Non-custodial mode requires users to manage their own keys (hardware wallets are recommended).
- Phishing Attacks: Fake official website/customer service scams.



Team operation risks

- Key personnel risk: The loss of core technical personnel could impact development progress (an equity incentive plan has been implemented).
- Fund management risk: Reserve funds are controlled by a 5/9 multisignature wallet.
- Information disclosure risk: The scope of disclosure for major events is determined through a DAO vote.



7.4 Disclaimer



Limitation of Platform Liability

The LBX Foundation and its affiliates assume no liability for the following:

- Service unavailability due to force majeure (war, natural disasters, global internet outages)
- User errors (including but not limited to incorrect address entry, private key disclosure, and incorrect contract authorization)
- Technical failures of third-party service providers (wallet providers, node service providers, exchanges)
- Business adjustments or terminations due to regulatory changes
- Loss of asset value due to extreme market volatility



Investment Risk Warning

Important Warning

- LBX tokens are not securities and do not guarantee any investment returns.
- Invest only funds you can afford to lose.
- Past performance is not indicative of future results.



User Obligations

Users agree to:

- Assume all transaction risks
- Comply with the laws and regulations of their jurisdiction
- Regularly review smart contract authorization (authorization management tools provided)
- Verify contract addresses through official channels (to prevent phishing risks)