

# Whitepaper

ZIHUBRIDGE

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# 1. Introduction

Over the past decade, blockchain technology has developed into a collection of powerful but separate ecosystems. Each network supports its own tokens, applications, and liquidity, yet moving value between them is often complicated and fragmented. Users typically need to maintain several wallets, handle different address formats, and rely on exchanges or bridges to transfer assets across networks. ZihuBridge was designed to address swapping tokens cross border blockchain issues.

It provides a clear and efficient way to exchange tokens across multiple blockchains, combining automated conversion with strong operational controls. By focusing on reliability, user experience, and liquidity management, ZihuBridge sets the stage for a global, network-agnostic platform where assets can move freely between blockchains supporting new use cases in payments, trading, DeFi, and digital commerce.

## 2. Problem Statement

Blockchain technology has made it possible to transfer and store value in new ways, but it is still divided into a large number of independent ecosystems. Each network maintains its own ledger, supports distinct tokens, and operates with its own set of tools. Moving assets between these networks is often complicated, slow, and costly.

People who want to exchange tokens across chains commonly face several obstacles:

- ▶ **Fragmented Infrastructure**  
Transferring tokens between blockchains often requires the use of multiple services centralized exchanges, custodial bridges, or complex smart contracts. Each additional step increases settlement time, fees, and the risk of operational failure.
- ▶ **Complex User Experience**  
Cross-chain transfers can involve several wallets, unique address formats, and additional instructions such as memos, destination tags, or contract parameters. Even experienced users can make errors that result in lost funds or delays.

## 2. Problem Statement

- ▶ High Costs and Delays

Converting assets across ledgers typically means executing several trades and withdrawals, each with its own fee schedule and confirmation time. Network charges, exchange spreads, and withdrawal limits combine to create a process that is both expensive and slow.

- ▶ Security Risks

Many existing cross-chain tools operate as custodians without transparent safeguards. Users must trust third parties to hold funds securely, and past incidents have shown how vulnerable such intermediaries can be to breaches or mismanagement.

# 3. ZihuBridge Solution

ZihuBridge is designed to address these challenges. It consolidates complex steps into a single, automated workflow, allowing users to exchange assets across networks quickly and with predictable costs, while maintaining clear operational controls and security standards.

## ▶ Swap Setup

- ▶ The user chooses a source network and token, a destination network and token, and provides a payout wallet address on the target chain.
- ▶ The interface validates that the destination address meets the requirements for the target asset (e.g., account activation or trustline).

## ▶ Deposit Stage

- ▶ ZihuBridge generates a deposit address and memo/tag on the source network.
- ▶ The user sends the selected token to that address. The platform's watcher service tracks the incoming payment in real time.

# 3. ZihuBridge Solution

## ▶ Backend Conversion

- ▶ After the deposit is confirmed, ZihuBridge automatically converts the asset into a settlement currency that has liquidity for cross-chain routing (for example, the native coin of the source network).
- ▶ Through pre-integrated APIs or liquidity partners, this settlement currency is exchanged for the destination network's native coin.
- ▶ The converted funds are delivered to ZihuBridge's operational wallet on the target chain.

## ▶ Final Trade & Payout

- ▶ Once funds are available on the destination network, ZihuBridge executes an on-ledger trade (if the user requested a token rather than the base currency).
- ▶ The purchased asset is then sent directly to the user's payout address, completing the transaction.

## 3.1 Key Advantages

- ▶ Single Interaction – Users make one deposit and receive the desired asset without having to visit multiple platforms.
- ▶ Predictable Fees – Quotes show the total cost upfront, including network charges and service fees.
- ▶ Reduced Risk of Error – Automated validation of memos, tags, and address formats helps prevent accidental losses.
- ▶ Refund Management – If payout conditions cannot be met (e.g., the destination address lacks required permissions), the platform can return funds in the source asset.

## 3.2 Architecture Highlights

- ▶ **Frontend:** A responsive web interface (and future mobile app) that guides users through swaps and provides real-time status.
- ▶ **Backend Services:** Independent workers handle deposit monitoring, quote calculation, swap execution, and payout settlement.
- ▶ **Liquidity Integration:** Uses approved APIs and on-chain markets to handle conversions, the platform itself does not custody large amounts longer than needed for settlement.

ZihuBridge transforms a chain of manual, risky steps into a clear and efficient transaction. As additional blockchains are integrated, the same architecture will support swaps across a growing set of assets, allowing value to flow between networks with reliability and transparency

## 4. Features

- ▶ Direct swaps: Stellar → XRP or Stellar → XRPL tokens.
- ▶ Automatic conversions: Backend handles XLM ↔ XRP ↔ XRPL tokens.
- ▶ Trustline checks: Payout only if the user's destination wallet is activated and has a trustline to the target token.
- ▶ Transparent pricing: Real-time quotes with slippage protection and clear fees.
- ▶ Refund safety: If payout fails (e.g., missing trustline), funds can be refunded in the source asset.

# 5. Liquidity Pool Farming Module

The ZihuBridge Liquidity Farming Module rewards users who provide liquidity to the ZIHU/XLM pool. Rewards are distributed to LP participants based on their percentage share of the total liquidity pool, ensuring fair and transparent incentive allocation.

This system is designed to strengthen protocol liquidity, reduce slippage, and reward long-term supporters who help deepen the ZihuBridge ecosystem.

## Key Capabilities

- ▶ **Pool-share based rewards:** Rewards are distributed proportionally according to each participant's share of the ZIHU/XLM liquidity pool.
- ▶ **Automatic reward calculation:** Distribution logic tracks each LP provider's percentage ownership and allocates rewards accordingly.
- ▶ **Protocol liquidity growth:** Liquidity providers benefit while simultaneously strengthening the token's market depth and price stability.

# 6. Tokenomics

Token Name: ZihuBridge

Ticker: \$ZIHU

Total Supply: 1,000,000 \$ZIHU

Issuer Address:

GBFLPLGAB5T7D5ELTJQAOP2KUYMOCYXQFJAQN72JQT54IIB4X5DEZIHU

- ▶ Public: 50% → 500,000
- ▶ LP Farming Rewards: 25% → 250,000
- ▶ LP Bootstrap: 5% → 50,000
- ▶ Airdrop: 5% → 50,000
- ▶ Team: 10% → 100,000
- ▶ Reserve: 5% → 50,000

## 7. Zihu Token Utility

The **ZIHU token** is the native utility asset of the ZihuBridge ecosystem. It is designed to power cross-chain operations, enable project integrations, incentivize participation, and establish long-term economic sustainability. With a fixed supply of **1,000,000 ZIHU**, the token combines scarcity, utility, and deflationary mechanics to create intrinsic value as adoption grows.

ZIHU plays a central role across all business and technical layers of the bridge. Its utility expands as the platform scales and additional blockchains are integrated.

# 7.1 Project Listing Payments

Projects that wish to enable cross-chain swaps for their token through ZihuBridge are required to pay the **listing fee in ZIHU tokens**.

This mechanism ensures:

- ▶ Continuous and recurring demand for ZIHU
- ▶ Sustainable funding for platform maintenance and integration
- ▶ A standardized model for onboarding new tokens and chains

The specific fee amounts will be published prior to release, allowing flexible adjustment based on market conditions and ecosystem maturity.

## 7.2 Deflationary Burn Mechanism

ZIHU incorporates a **deflationary burn model**, where a small percentage of ZIHU is permanently burned during defined platform operations.

Examples include:

- ▶ Specific transaction types
- ▶ Fee conversions
- ▶ Project onboarding payments

This ongoing burn mechanism reduces circulating supply over time, increasing scarcity and supporting long-term token value.

## 7.3 Governance

ZIHU token holders have the right to participate in the governance of the ZihuBridge ecosystem. Holding ZIHU grants voting power over key platform decisions, making every holder a stakeholder in the direction of the project.

Governance participation includes:

- ▶ Token listing approvals — Holders vote on which tokens and projects get verified and listed on ZihuBridge
- ▶ Fee structure updates — The community can propose and vote on changes to platform swap fees and listing fee amounts
- ▶ New chain integrations — Holders influence which blockchains are prioritized for future integration
- ▶ Platform upgrades — Major protocol changes and feature rollouts are subject to community vote

The more ZIHU a wallet holds, the greater its voting weight. This directly incentivizes holding over selling, as a larger ZIHU balance translates to a stronger voice in shaping the platform's future.

# 8. Roadmap

## Phase 1 – Q1 2026: Foundation & Launch

- ▶ Launch of ZihuBridge landing page introducing the project vision and cross-chain swap concept.
- ▶ Development of backend infrastructure to enable XLM ↔ XRP swaps using external liquidity APIs (e.g. ChangeNOW).
- ▶ Implementation of real-time swap quote calculation, session management, and monitoring of deposit transactions.
- ▶ Research and planning for ZIHU token utility and ecosystem model.

## Phase 2 – Q2 2026: Token Launch & Platform Expansion

- ▶ Launch ZIHU token on Stellar blockchain.
- ▶ Activate backend swap fee system in XLM, introducing protocol revenue on every completed bridge transaction.
- ▶ Automatically route 70% of collected swap fees into ZIHU/XLM liquidity growth, converting fees into ZIHU and strengthening the protocol-owned liquidity pool.
- ▶ Release token listing application flow, allowing external Stellar and XRPL projects to request cross-chain support directly through ZihuBridge.

# 8. Roadmap

## Phase 3 – Q3 2026: Liquidity Pool Farming & Ecosystem Growth

- ▶ Launch ZihuBridge Liquidity Pool Farming, allowing users to provide liquidity and earn rewards.
- ▶ Introduce \$ZIHU Liquidity Pools on Stellar DEX to strengthen market depth and price stability.
- ▶ Enable Token Listing Fees in \$ZIHU: Projects must pay a fixed fee in \$ZIHU to get their tokens verified and listed on ZihuBridge.
- ▶ Conduct audits and liquidity stress tests to ensure stable swap operations.

## Phase 4 – Q4 2026: Ecosystem Utility Integration

- ▶ Expand cross-chain support to Solana and Ethereum, connecting more liquidity sources.
- ▶ Deploy the ZihuBridge Aggregator Engine to route swaps through the most efficient liquidity paths across chains.
- ▶ Launch an Analytics Dashboard displaying real-time liquidity, swap volumes, and fee distributions.
- ▶ Strengthen security and automation for hot/cold wallet management and cross-chain settlement tracking.

## 9. Team

- ▶ ZihuBridge is developed by **CoreHives**, a well-known **software house** recognized for delivering high-quality digital solutions and blockchain-based products.
- ▶ The CoreHives team has completed numerous international projects across the fields of fintech, blockchain, and web technology. Their proven track record of turning complex ideas into user-friendly platforms makes them a trusted name in the development space.
- ▶ With a strong focus on innovation, reliability, and long-term scalability, CoreHives ensures that ZihuBridge is built with the same level of precision and excellence that defines all their previous projects.
- ▶ Learn more about the team behind ZihuBridge at [www.corehives.com](http://www.corehives.com).

# 10. Conclusion

- ▶ ZihuBridge stands at the forefront of a new era of blockchain connectivity where users no longer face the limitations of isolated networks. By creating a seamless bridge between **Stellar**, **Ripple**, and future blockchains, ZihuBridge aims to simplify cross-chain swaps while ensuring transparency, speed, and security.
- ▶ The project's foundation is built on real utility rather than speculation focusing on solving one of Web3's biggest challenges: effortless interoperability. As the ecosystem expands, ZihuBridge will continue to introduce advanced features such as liquidity farming, staking, and real-time analytics, making it not just a bridge, but a complete ecosystem for cross-chain value transfer.
- ▶ Backed by the experienced **CoreHives** software house, ZihuBridge combines technical excellence with long-term vision. Together, we are shaping a future where users can move digital assets freely across networks — easily, securely, and without boundaries.