DI Networks

Interoperable U2U

Provide lightspeed and efficient interoperable cross-chain DApps using U2U and improve daily utilization of native token.

Contents

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Introduction

The **Interoperable U2U (IU2U) Protocol** introduces a groundbreaking approach to cross-chain interoperability by leveraging **U2U as the primary gas token**. This enables **gasless cross-chain transactions** through a **meta-transaction relay system** (DAG-Based) while enhancing U2U's utility across multiple blockchain networks.

By addressing the **limitations of Owlto's existing bridge**, IU2U transforms **U2U Network's ecosystem** into a fully interoperable and programmable cross-chain infrastructure. This innovation allows seamless asset transfers, smart contract execution, and data messaging across diverse blockchain ecosystems.

Problems

Problems in User Experience in web3 platforms

❖ Dependence on Native Tokens for Gas Fees

- Users must hold the native token of each blockchain (e.g., ETH, BNB, AVAX) to perform transactions such as token transfers or swaps.
- This creates friction, especially for new users or those interacting with multiple chains.

❖ Inefficient Multi-Asset Transfers

- Current platforms only allow transferring one asset per transaction.
- If a user needs to send multiple tokens (e.g., 10 different assets) to another wallet(migration case) or to send one tokens to multiple wallet(payout system), they must execute and pay for 10 separate transactions.

❖ Lack of Scheduled or Automated Payments

- Users cannot schedule transfers or recurring payments natively.
- This makes asset management inefficient for payroll, subscriptions, or periodic settlements.

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Problems

Problems in Current Owlto Bridge's functionalities

U2U Network's Advantages

- High Scalability & Fast Network (real-time)
- Architecture (DAG)
- Non-Custodial Transactions
- DePIN Infrastructure

VS

Problems in Token & Bridge

- Narrow Scope in Bridge
- Limited Functionality
- High Bridging Fee
- Underutilization of Token
- Restricted Asset Support

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Solutions
Key Features

Gasless Meta-Transaction System

- Pay gas fees exclusively in U2U, regardless of the blockchain they are transacting on.
- Supports Ethereum, BNB Chain, Polygon, Base, and any EVM-compatible blockchain.
- Simplifies the user experience by abstracting gas fees and reducing friction in cross-chain swaps.
- Automated scheduled execution by third party without security loss

Enhanced U2U Interoperability

- Replace the need for a wrapped U2U by introducing a native cross-chain IU2U token.
- The U2U token serves as both the foundational asset and the medium of exchange that enables and secures cross-chain operations.
- Enables data transmission and smart contract execution alongside asset transfers.
- Expands U2U's programmability across different chains, improving developer accessibility.

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Solutions

Use Cases & Ecosystem Expansion

🚀 Cross-Chain DEX Aggregators & Swap Platforms

💰 Cross-Chain Lending & Borrowing Protocols

📊 Multi-Chain Liquidity Provisioning & Yield Aggregation

🔗 Cross-Chain Staking & Yield Farming

📡 Decentralized Cross-Chain Messaging & Smart Contract Execution

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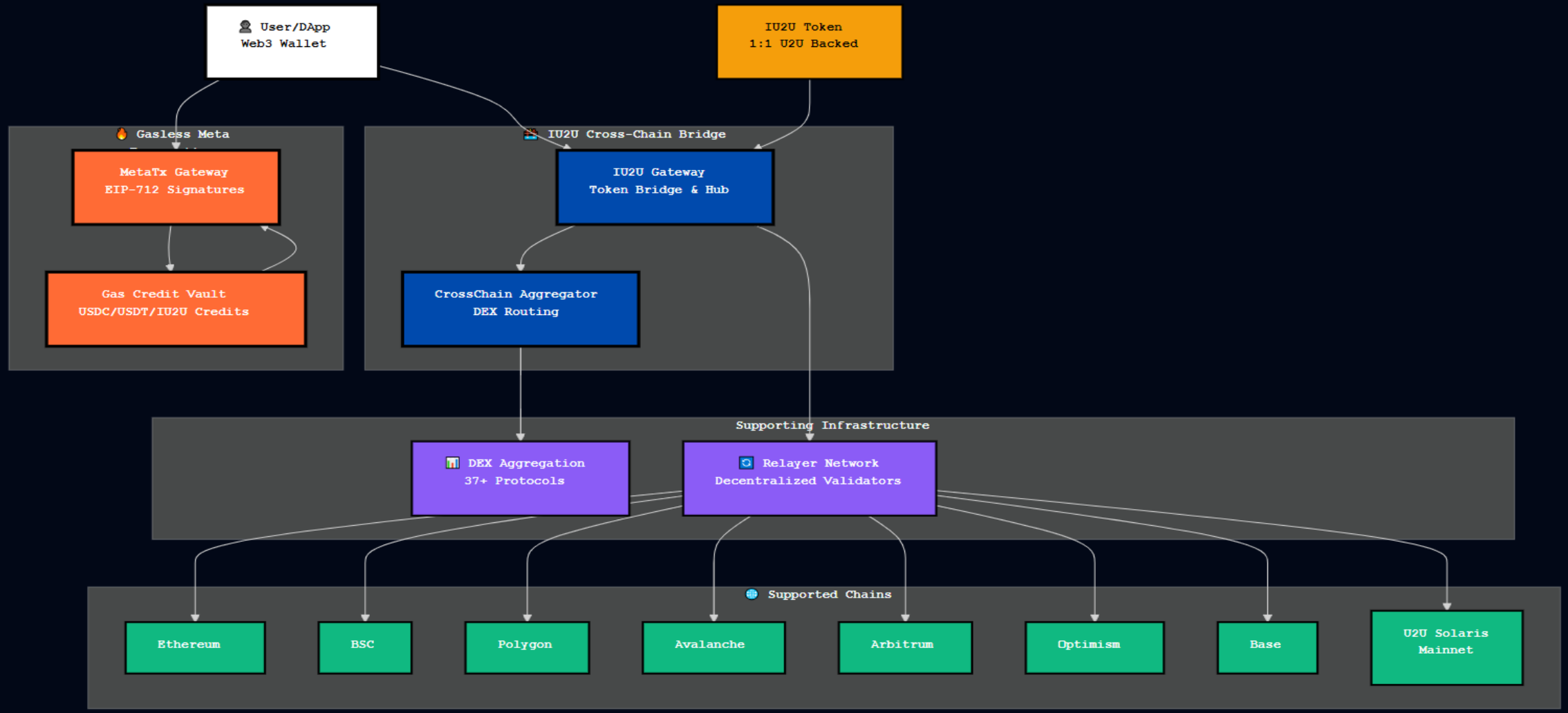
Solutions

Strategic Impact for CrossFi

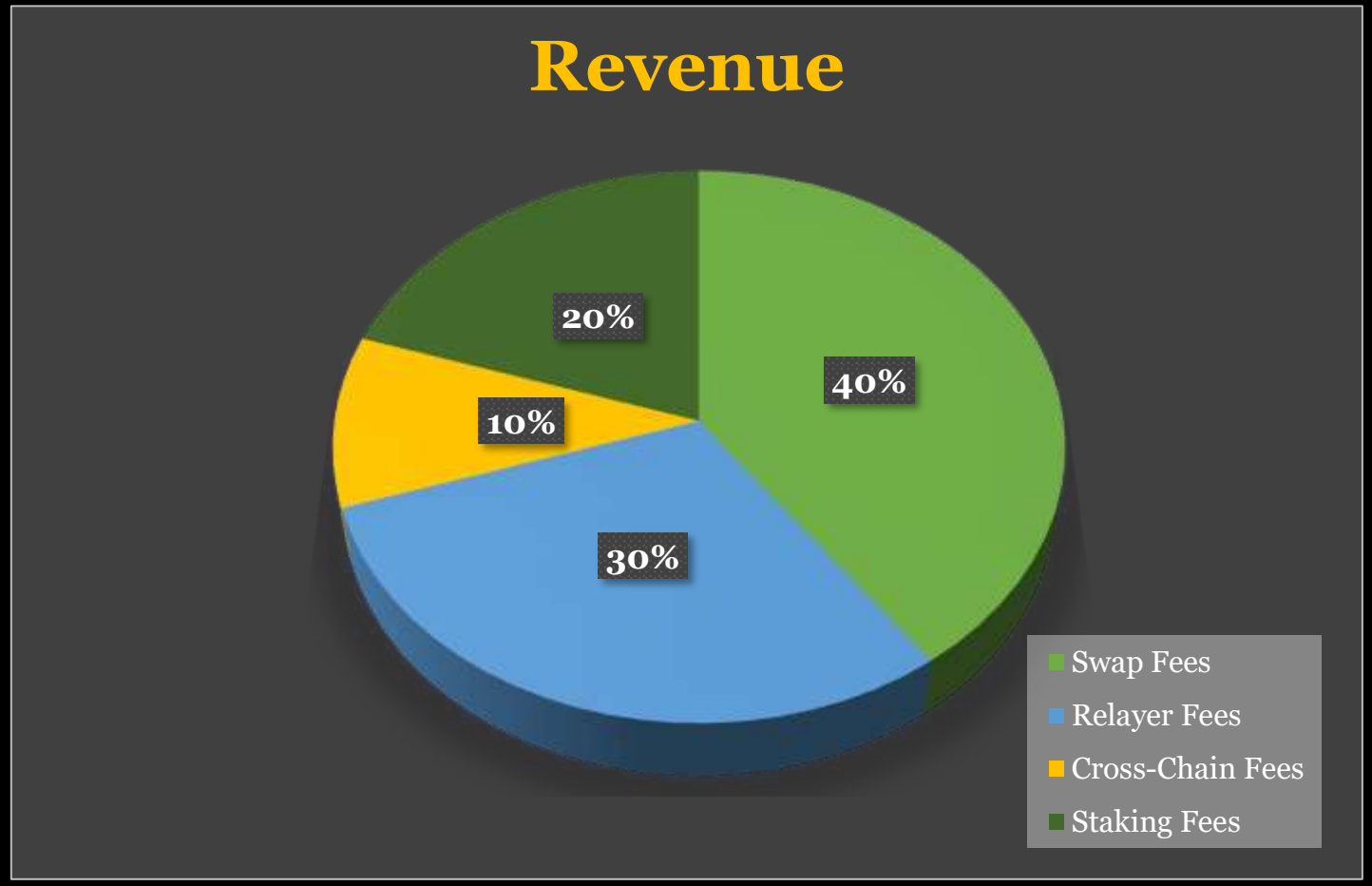
- By implementing IU2U, U2U Network will establish itself as a leader in blockchain interoperability, significantly enhancing U2U's core utility while driving adoption and network growth.

- This solution lays the groundwork for truly seamless, gas-efficient, and highly programmable cross-chain transactions—a critical step toward scaling DeFi beyond siloed ecosystems.

Diagram


User/DApp
Web3 Wallet
IU2U Token
1:1 U2U Backed
Gasless Meta
MetaTx Gateway
EIP-712 Signatures
Gas Credit Vault
USDC/USDT/IU2U Credits
IU2U Cross-Chain Bridge
IU2U Gateway
Token Bridge & Hub
CrossChain Aggregator
DEX Routing
Supporting Infrastructure
DEX Aggregation
37+ Protocols
Relayer Network
Decentralized Validators
Supported Chains
Ethereum
BSC
Polygon
Avalanche
Arbitrum
Optimism
Base
U2U Solaris
Mainnet

Business Model



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Product Demo

- **Live Product**
  https://dinetwork.xyz

- **Techinical Documentation**
  https://docs.dinetwork.xyz

- **Open Source**
  Frontend:
  https://github.com/DINetworks/DI-U2U

  Contracts:
  https://github.com/DINetworks/DI-U2U-Contracts

  Relayer
  https://github.com/DINetworks/DI-Relayer

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Roadmap

2025 Q3

Develop

Gas Abstraction Layer

Relayer Node System

IU2U Token & GMP

2025 Q4

Develop & Test

Test Prior Module

Cross Chain Aggregator

MultiChain LPs

2026 Q1

Security Audit & Lunch

Integration test,

Security Audit

Lunch 1.0

2026 Q2

Develop

Develop Governance

Develop Staking

Develop API & SDK

2026 Q2

Security Audit & Lunch

Ecosystem Expansion

2026 Q3

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Estimated Budget

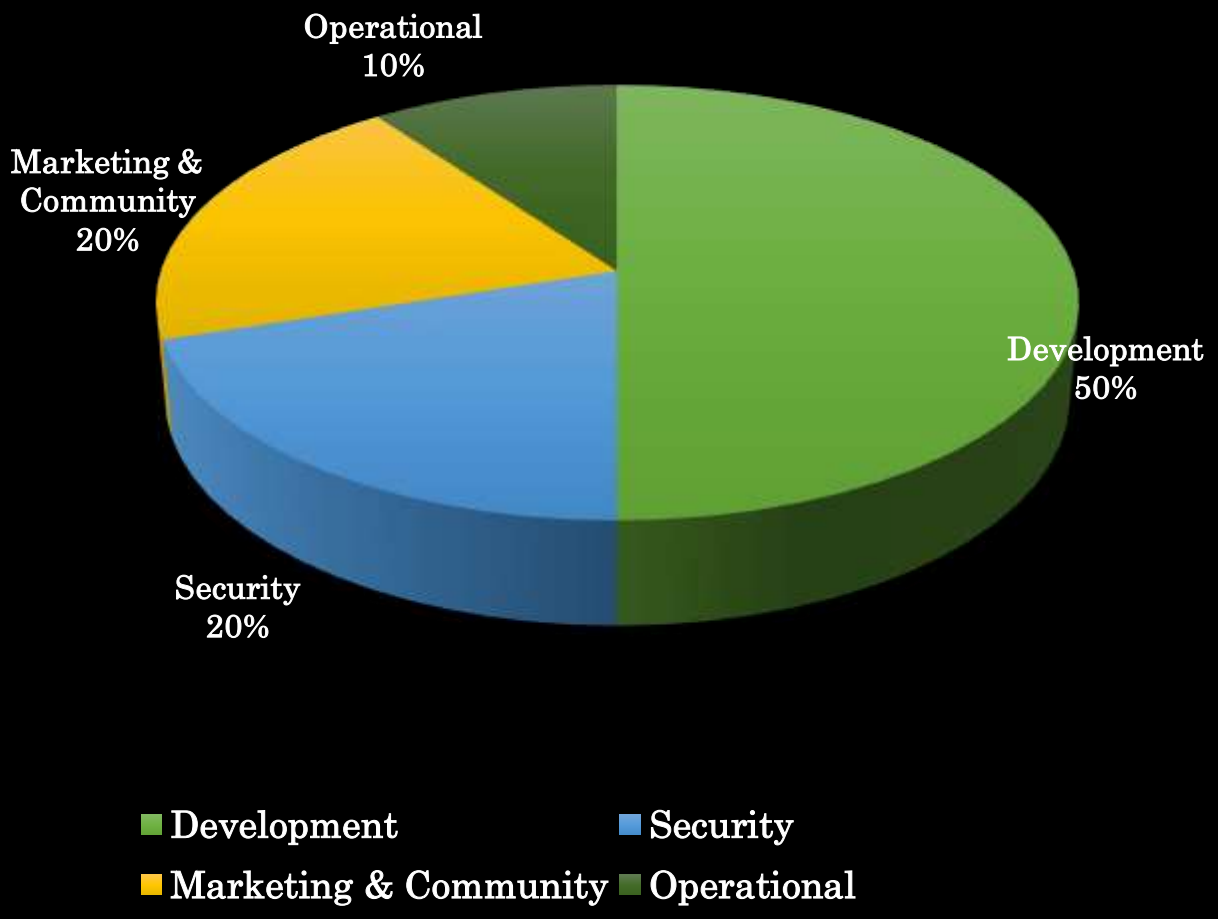
Stage	Cost (USD)
Smart Contract Development	$20,000 - $50,000
Relayer Node System & Cross Chain Bridge	$20,000 - $350,00
Frontend & Backend Development	$20,000 - $350,00
API & SDK Deveopment	$20,000 - $40,000
DevOps & Infrastructure Setup	$10,000 - $20,000
Mobile App (Optional)	$10,000 - $20,000
Total	**$100,000 - $200,000**

Note: This budget covers development only and does not include security, operations, or marketing expenses. Additionally, API & SDK development, mobile app creation, and DevOps & infrastructure will not be considered during the early stages of development.

Minimum Cost: $60,000, Average Cost: $100,000

IU2U Labs

Fund Usage



- Product Development (50%)
- Test & Security Audits (20%)
- Marketing & Community Growth (20%)
- Operational Expenses (10%)

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Our Team

Our core team consists of seasoned professionals with extensive experience in both Web2 and Web3 development. With a deep understanding of blockchain infrastructure, we have successfully built and contributed to various decentralized applications, including cross-chain DEXs and DEX aggregators.

Wayne Poon, Malaysia
Co-Founder, Owner
Protocol Architect

Cha Sui Soon, Malaysia
Co-Founder
Backend + Dev Ops

Ilyasa Sazali, Malaysia
Co-Founder
Frontend + Web3

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Thank You