

# COMPLIANCELINK



Decentralized Compliance  
Engine (DCE)

Empowering Decentralized Finance Applications with Cross-  
Border Compliance



by:  
*Tamil Hackers*

**WORMHOLE**



**CIRCLE**

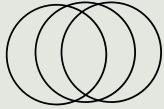


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# Problem Statement



- Increased risks for users and projects.
- Regulatory friction prevents DeFi's global adoption.
- Limited participation from institutional investors.

DeFi has a compliance gap.

- Cross-border transactions face regulatory challenges.
- Lack of standardization leads to high risk for users and DeFi applications.



# Solution Overview

Introducing ComplianceLink A decentralized middleware solution that automates compliance checks for DeFi projects.

## What it Does:

- Leverages Circle's Compliance API to enforce KYC/AML requirements.
- Ensures cross-chain compliance via Wormhole.
- Provides real-time compliance updates across blockchains (e.g., Ethereum, Solana, Sui).



## Value Proposition:

- Unlocks cross-border DeFi potential by ensuring compliance.
- Reduces regulatory risk, making DeFi attractive for institutional investors.



**Step 1:** User Onboarding – Users submit KYC information to Circle’s Compliance API for verification.

**Step 2:** Compliance Check – Circle’s API checks for KYC/AML compliance; results are recorded on the blockchain.

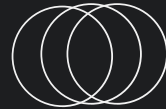
**Step 3:** Smart Contracts – Smart contracts restrict non-compliant wallets from transactions.

**Step 4:** Cross-Chain Support – With Wormhole, users remain compliant across different chains, avoiding redundant checks.

**Step 5:** Continuous Monitoring – Periodic re-checks with Circle’s API keep compliance statuses current.



## How It Works



# Technology Stack

→ **API Layer:** Node.js and Express.js for handling Circle API calls and compliance logic.

→ **Blockchain Interactions:**

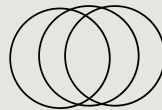
- Solidity (Ethereum), Rust (Solana, Sui) for smart contracts.
- Wormhole SDK for multichain interoperability.

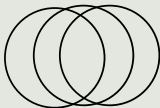
→ **Backend Middleware:** Node.js for processing compliance responses and executing smart contract rules.

→ **Database and Storage:**

- MongoDB/PostgreSQL for off-chain audit logs.
- IPFS for storing sensitive data, like encrypted KYC documents.

→ **Frontend Framework:** React or Vue.js for the user interface with Web3 wallet support.





## Key Features



- **Cross-Chain Compliance:** Uses Wormhole to enable compliance across multiple blockchains, avoiding duplication.
- **Automated KYC/AML Checks:** Integrates Circle's Compliance API for instant regulatory checks.
- **Decentralized Enforcement:** Smart contracts ensure that only verified users access DeFi applications.
- **Scalability:** Designed to handle high volumes, with Redis/RabbitMQ for task management and IPFS for decentralized storage.

# Competitive Advantage

## → Unique Selling Points:

- Decentralized: Compliance statuses are enforced directly on-chain.
- Multichain Compatibility: Ensures compliance across multiple blockchain ecosystems.
- Automated Compliance: Real-time integration with Circle's Compliance API streamlines KYC/AML requirements.



## → Comparison:

- Centralized compliance providers lack multichain support.
- Traditional DeFi apps don't address regulatory friction effectively.
- Competitors focus on single-chain solutions, limiting adoption.

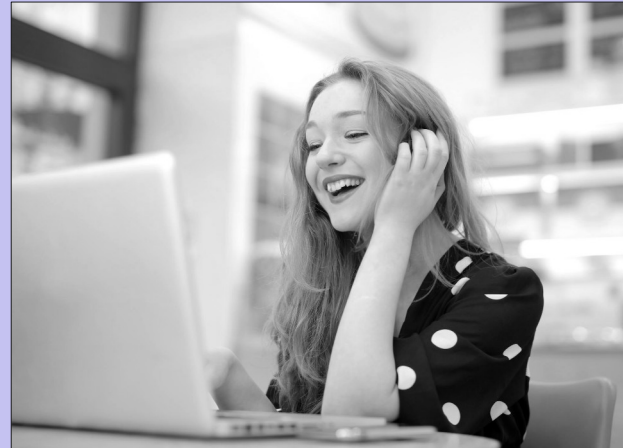




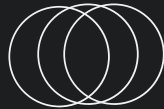


- **DeFi Platforms:** Secure compliant onboarding for cross-chain DeFi lending and yield-farming platforms.
- **Institutional DeFi Participation:** Opens the door for institutions to confidently participate in DeFi.
- **Cross-Border Payments:** Enforces compliance for cross-border, blockchain-based remittance services.
- **NFT and Gaming Platforms:** Allows NFT and gaming platforms to access a compliant, global user base.

## Use Cases and Market Impact



# Roadmap



**Phase 1:** MVP Development (User onboarding, compliance checks, basic smart contracts).

**Phase 2:** Multichain Testing (Ethereum, Solana, Sui integration with Wormhole support).

**Phase 3:** Security Audit & Compliance Scaling (Robust testing, periodic audits, and API updates).

**Phase 4:** Full Launch (Deployed across mainnets, open to public DeFi projects).

**Phase 5:** Expansion & Scaling (Partnerships with more chains, Circle API enhancements).



# Monetization Strategy



- **Subscription Fees:** Charge DeFi projects for DCE access, based on transaction volume.
- **Compliance-as-a-Service (CaaS):** Offer API integrations for any Web3 project requiring cross-chain compliance.
- **Enterprise Partnerships:** Build long-term relationships with institutions needing multichain compliance.

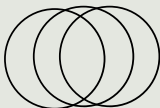


# Funding and Financials



- **Sigma Sprint Potential:** Opportunity to secure funding and seed investment from Sigma Sprint competition.
- **Future Funding Goals:** Plan to raise additional rounds to expand compliance functionality and reach.
- **Revenue Projections:** Initial revenue from subscription model, scaling with CaaS and partnerships.





## Why Us?



- **Team Expertise:** A team with blockchain, regulatory, and smart contract development experience.
- **Strategic Partnerships:** Leveraging technology from Wormhole, Circle, and multiple blockchain ecosystems.
- **Mission-Driven:** Committed to making DeFi a safer and more compliant environment for all participants.

# THANK YOU

ComplianceLink Decentralized Compliance Engine unlocks DeFi's global potential by bridging compliance with decentralization.

Contact us for further questions and interest in partnership.

## CREDITS:

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**Let's Connect**

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