TEMPORAL

NEXT-GENERATION FINANCIAL MESSAGING PLATFORM

Creating a secure alternative to SWIFT using distributed ledger technology

CHALLENGE

This bank faced limitations with traditional payment systems:

- **Aging SWIFT network** for international payment transfers
- **Slow and semi-deterministic** transaction processing
- **Outdated technology** introducing fragility and security concerns
- **$5 trillion daily transfers and 45 million daily messages** requiring a more robust solution

SOLUTION OVERVIEW

Temporal designed a revolutionary financial messaging platform.

KEY SOLUTION COMPONENTS:

1 **Zero-Trust Platform**

- Secure financial transaction processing
- Enhanced messaging system for banks and financial institutions
- Multi-layered security architecture

2 **Distributed Ledger Technology**

- Hyperledger-based consortium network
- Near real-time transaction verification and execution
- Transparent and immutable transaction record

3 **"Advanced Reporting Framework**

- Comprehensive reconciliation capabilities
- Regulatory compliance tooling
- Governance support systems

IMPLEMENTATION HIGHLIGHTS

- **Google Cloud Platform (GCP)** infrastructure for enterprise-grade reliability
- **Modern technology stack** including Python and React
- **Hyperledger open source** distributed ledger implementation
- **Third-party integration** with existing financial systems

RESULTS & IMPACT

- **Viable SWIFT alternative** created and deployed
- **Increased transaction speed** from days to near real-time
- **Enhanced security posture** through zero-trust architecture
- **Growing consortium adoption** with increasing momentum