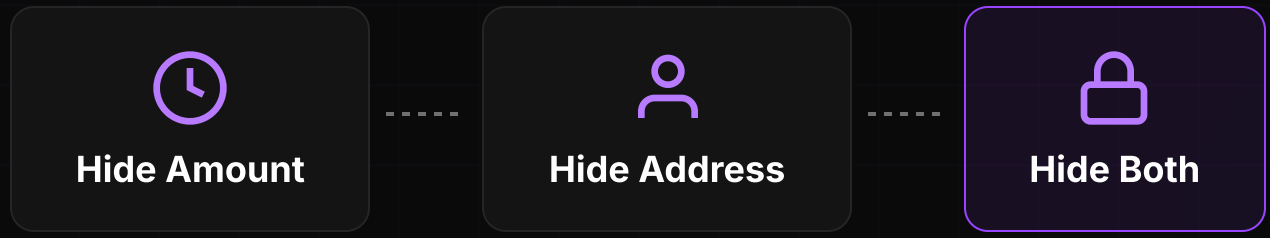
SOLANA | ZK PROOF | FHE

Compliance-Ready Confidential Transfer

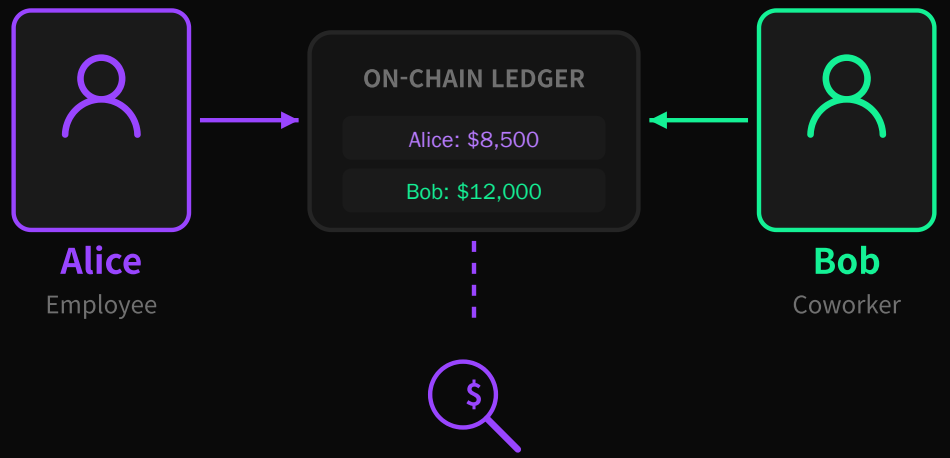
Privacy-preserving transactions with regulatory compliance



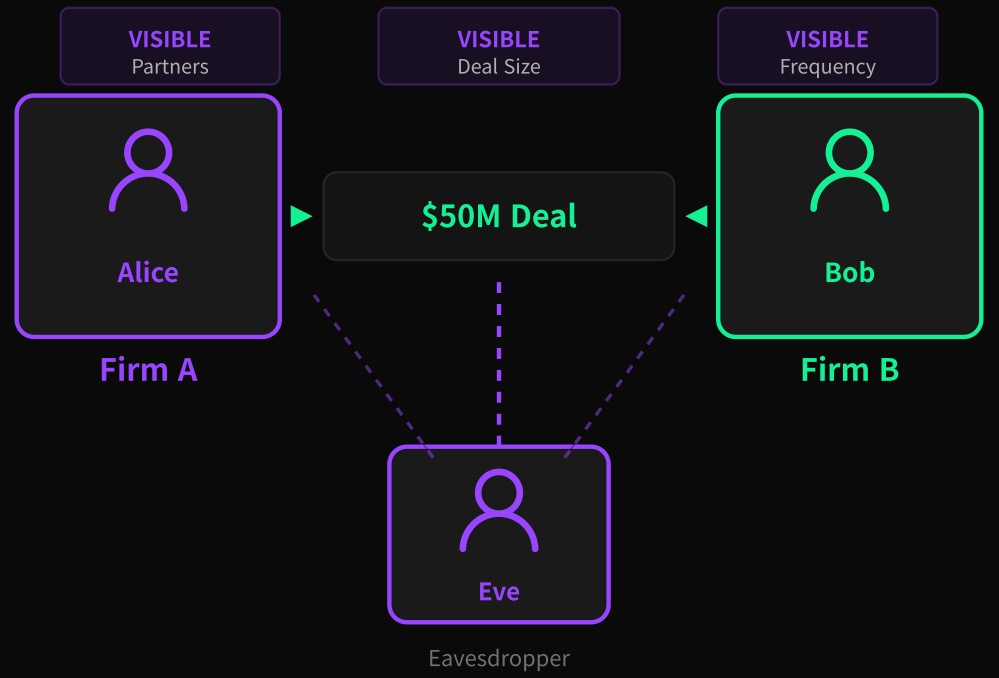
LatticA | ZK + FHE Infrastructure

On-Chain Transparency Breaks Privacy

Payroll Exposure



B2B Deal Exposure



100%
of on-chain transactions are public

$2.3B+
crypto payroll market exposed

0
compliant privacy solutions

CURRENT LANDSCAPE

Existing Solutions Fall Short

Feature	Solana Confidential	Dark Pools	LatticA
Amount Hidden	✓	✓	✓
Address Hidden	✗	✓	✓
Regulatory Compliance	Partial	✗	✓
Audit Capability	Limited	✗	✓

Tornado Cash Case Study

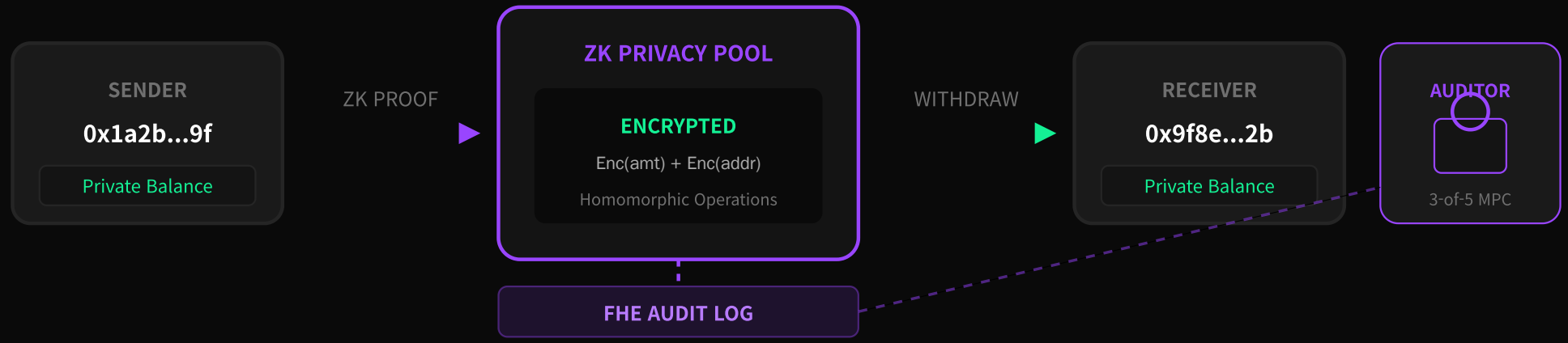
CEO sentenced to prison | $1B+ in regulatory fines | Protocol sanctioned

Privacy without compliance = Legal risk

DOJ Press Release Treasury OFAC Sanctions

OUR SOLUTION

ZK + FHE Architecture



Zero-Knowledge Proof

Validates without revealing data

FHE Encrypted Audit

Compute on encrypted data

MPC Threshold

3-of-5 nodes for decryption

COMPLIANCE QUERY

"Sum of transfers from X > $10K?"

→

FHE RESULT

TRUE (computed on encrypted data)

MARKET OPPORTUNITY

Market Size & Go-To-Market

Go-To-Market Phases

Q1 — Solana Payroll
Crypto-native companies

Q2 — B2B Settlements
Trading firms, DAOs

Q3 — DeFi SDK
DEX, lending protocols

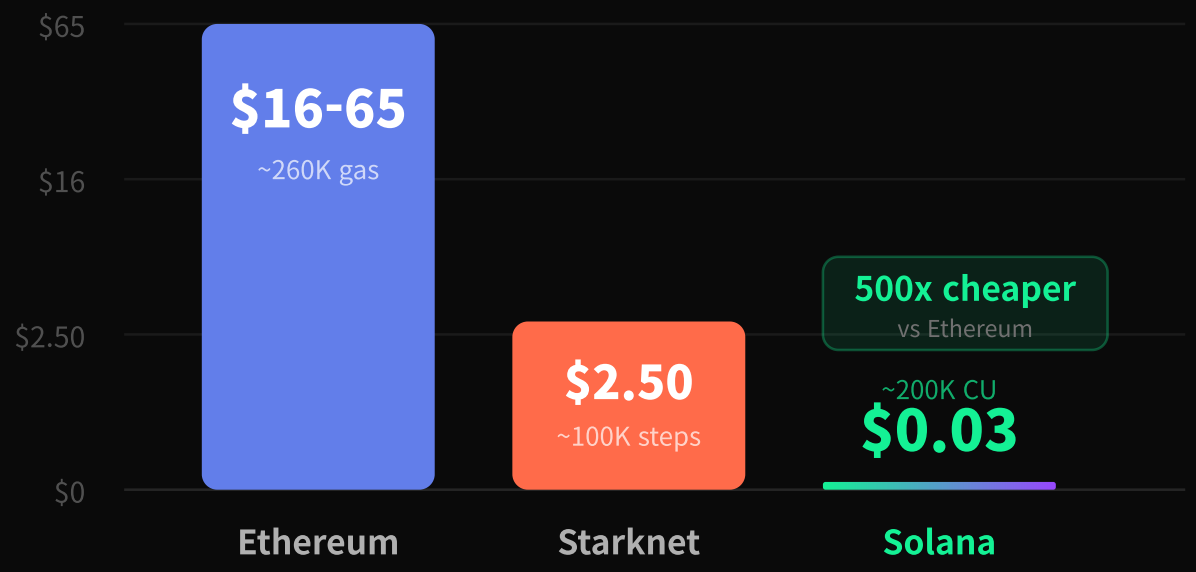
Q4 — Multi-Chain
ETH, Polygon expansion

Grand View Research Chainalysis DeFi

Why Solana

ZK Proof Verification Cost

Groth16 (128 bytes) - Real Benchmark



$0.03
ZK Verification
Groth16 proof - 200K CU

400ms
Block Time
Near-instant finality

Token-2022
Native Extension
Comparable to Token Extension

Benchmark: Proving Time (M1 Mac)

4.0s	4.9s	5.1s	3.5GB
amount_audit	pool_identity	pool_transfer	Peak RAM

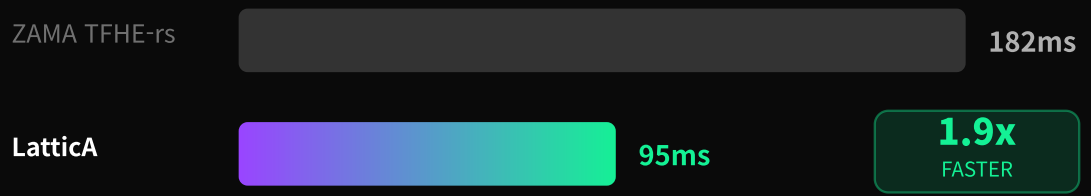
DeFiLlama groth16-solana Token-2022

COMPETITIVE EDGE

Why LatticA

FHE Bootstrapping Performance (64-bit)

Add/Sub operation benchmark



Source: ePrint 2025/2150

Cross-Platform Determinism

CPU GPU FPGA

NTT-based (no FFT errors)

Compliance-First Design

AML/KYC Audit Logs Threshold Dec

Production Ready

Devnet Live Token-2022

Ready to bring compliant privacy to your platform

Contact Us

Groth16 Paper Solana Explorer