

SOLANA

ZK PROOF

FHE

# Compliance-Ready Confidential Transfer

Privacy-preserving transactions with regulatory compliance



Hide Amount



Hide Address



Hide Both

**LatticA** | ZK + FHE Infrastructure

# On-Chain Transparency Breaks Privacy

## Corporate Payroll

Company Wallet



Employee

AMOUNT

\$15,000

ADDRESS

0x1a2b...9f

TIMING

Monthly

Salary, bonus structure, employee wallets all PUBLIC

## B2B Settlements

Firm A



Firm B

DEAL SIZE

\$50M

PARTNERS

Visible

FREQUENCY

Trackable

Deal sizes, partnerships, trading volumes EXPOSED

100%

of on-chain transactions are public

\$2.3B+

crypto payroll market exposed

0

compliant privacy solutions

# Existing Solutions **Fall Short**

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



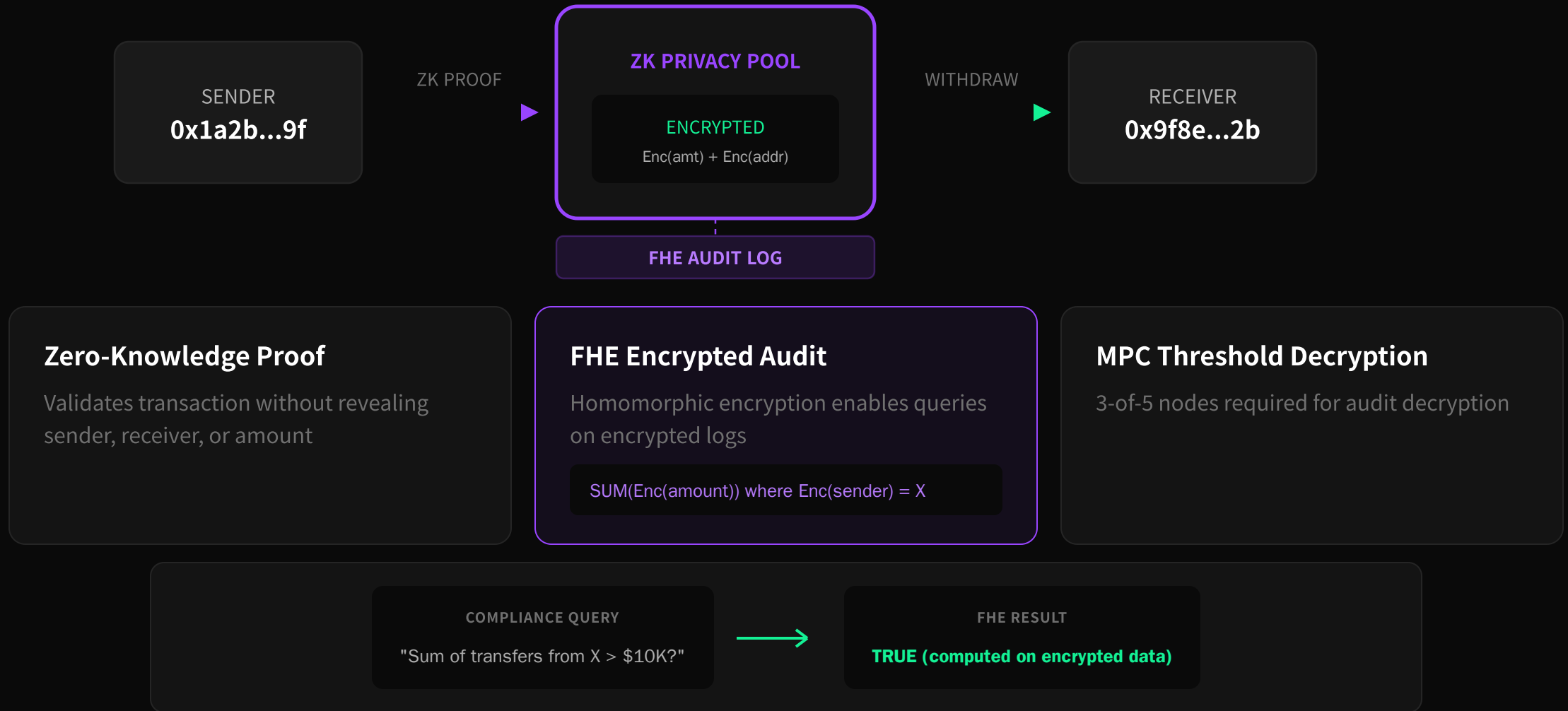
**Tornado Cash Case Study**

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

Privacy without compliance = Legal risk

## OUR SOLUTION

# ZK + FHE Architecture



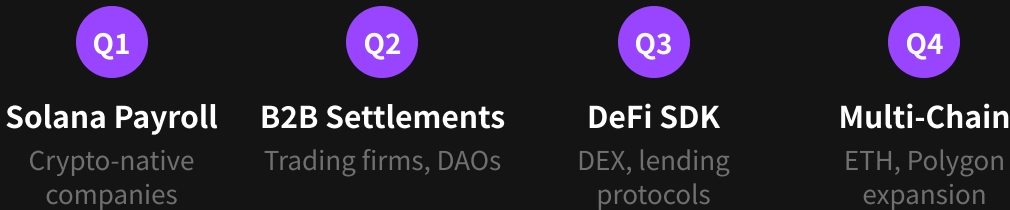
# Market Size & Go-To-Market



## Transaction Fee Comparison



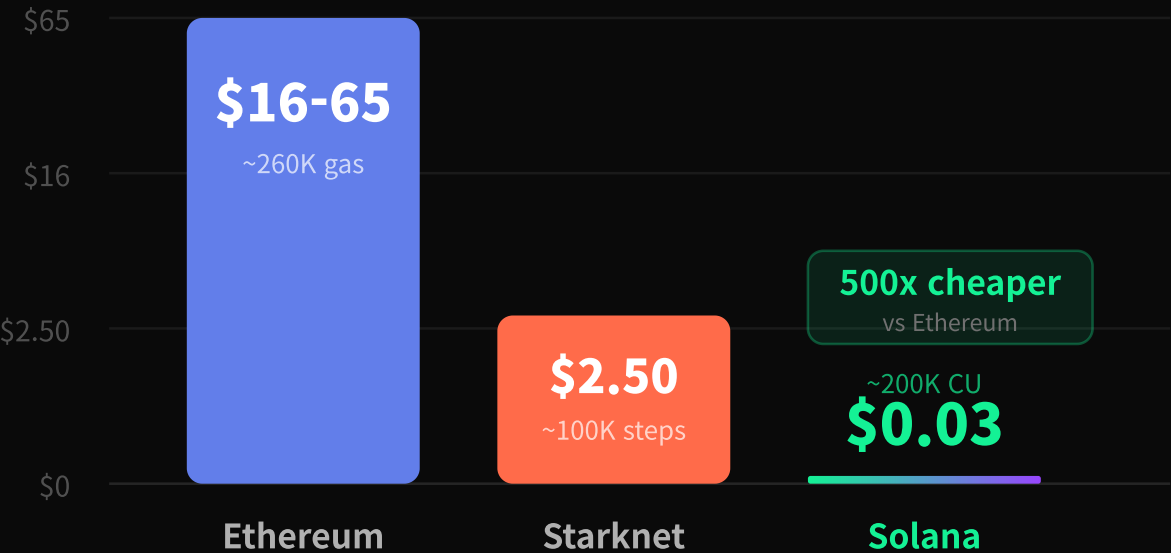
## Go-To-Market Phases



# 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**

Built-in confidential transfer

## Benchmark: Proving Time (M1 Mac)

**4.0s**

amount\_audit

**4.9s**

pool\_identity

**5.1s**

pool\_transfer

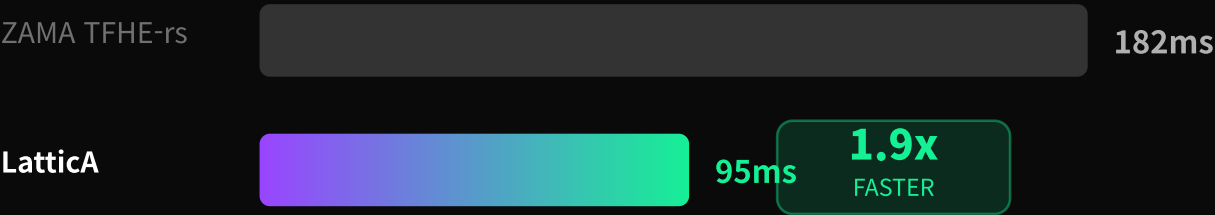
**3.5GB**

Peak RAM

# Why LatticA

## FHE Bootstrapping Performance (64-bit)

Add/Sub operation benchmark



Source: ePrint 2025/2150

### 01 Cross-Platform Determinism

- CPU
- GPU
- FPGA

NTT-based (no FFT errors)

### 02 Compliance-First Design

- AML/KYC
- Audit Logs
- Threshold Dec

### 03 Production Ready

- Devnet Live
- Token-2022

Ready to bring compliant privacy to your platform

Contact Us