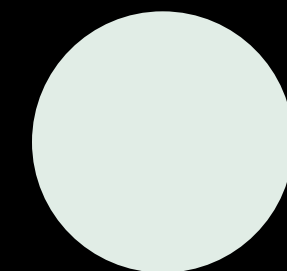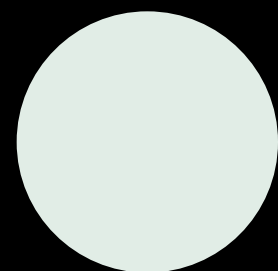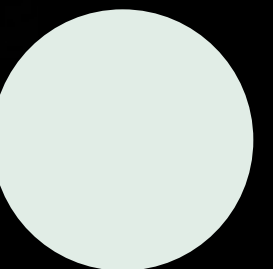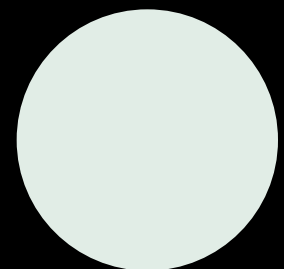# {Sirius}
Sui Hackathon

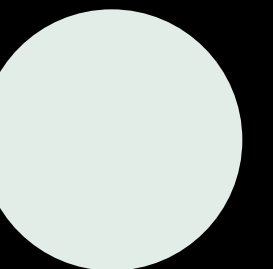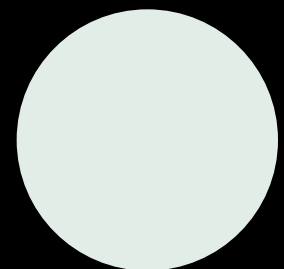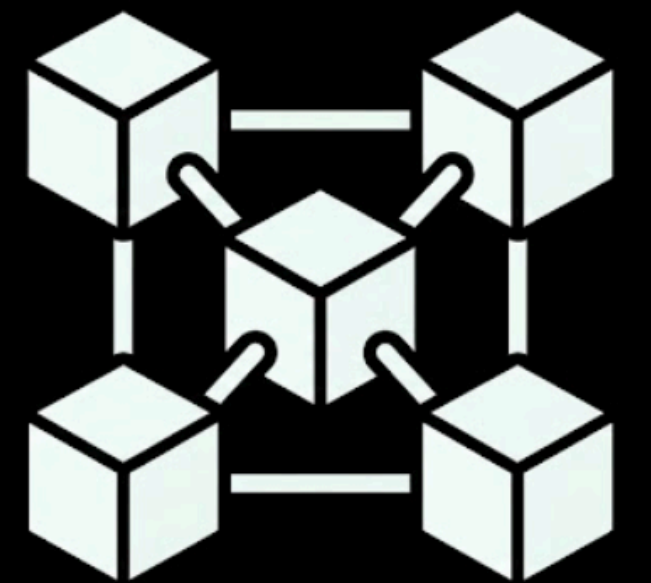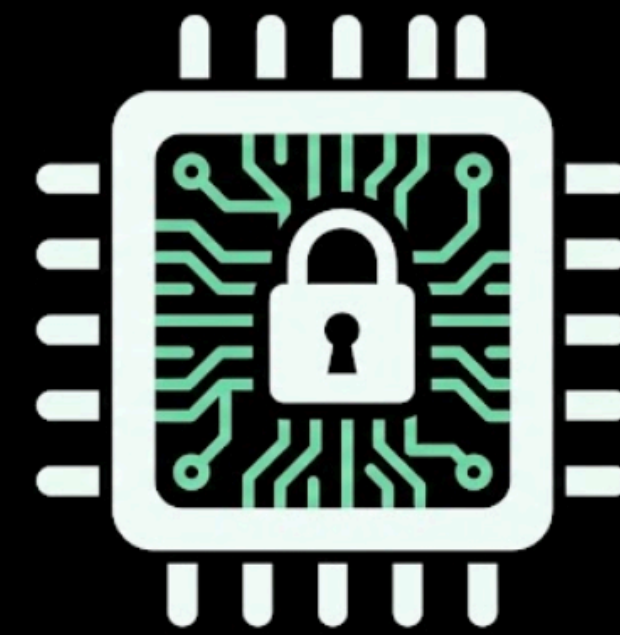November 23, 2025

{Sirius}

The Data Dilemma

- Problem : Data is valuable but toxic
- Exposure risks : PII leaks, non compliance
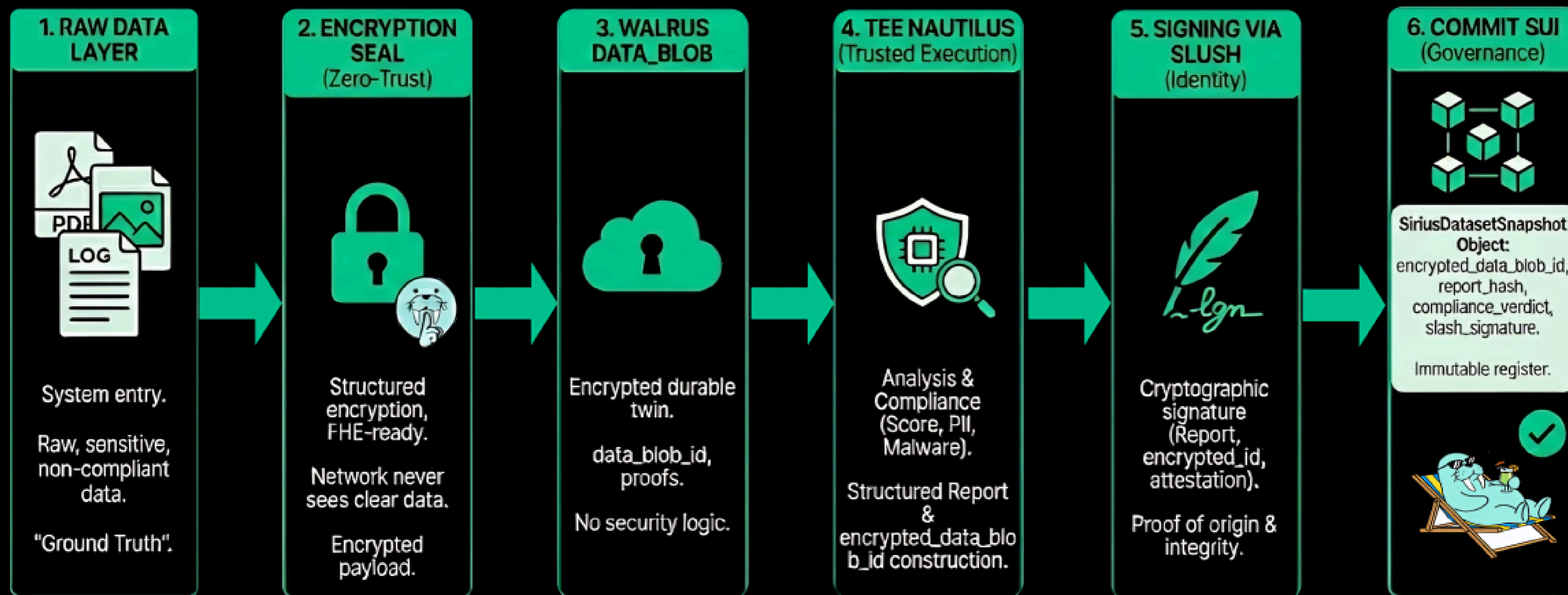- Decentralized storage is public by default

{Sirius}

The Solution :
Zero-Trust Pipeline

- Encrypted Storage (Seal + Walrus)
- Blind AI Audit (Nautilus TEE)
- On-Chain Governance (SUI)

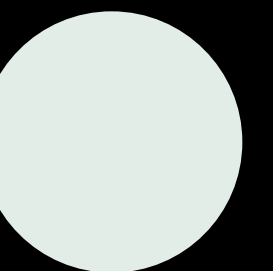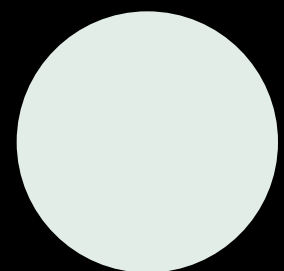# {Sirius}
How the magic Works

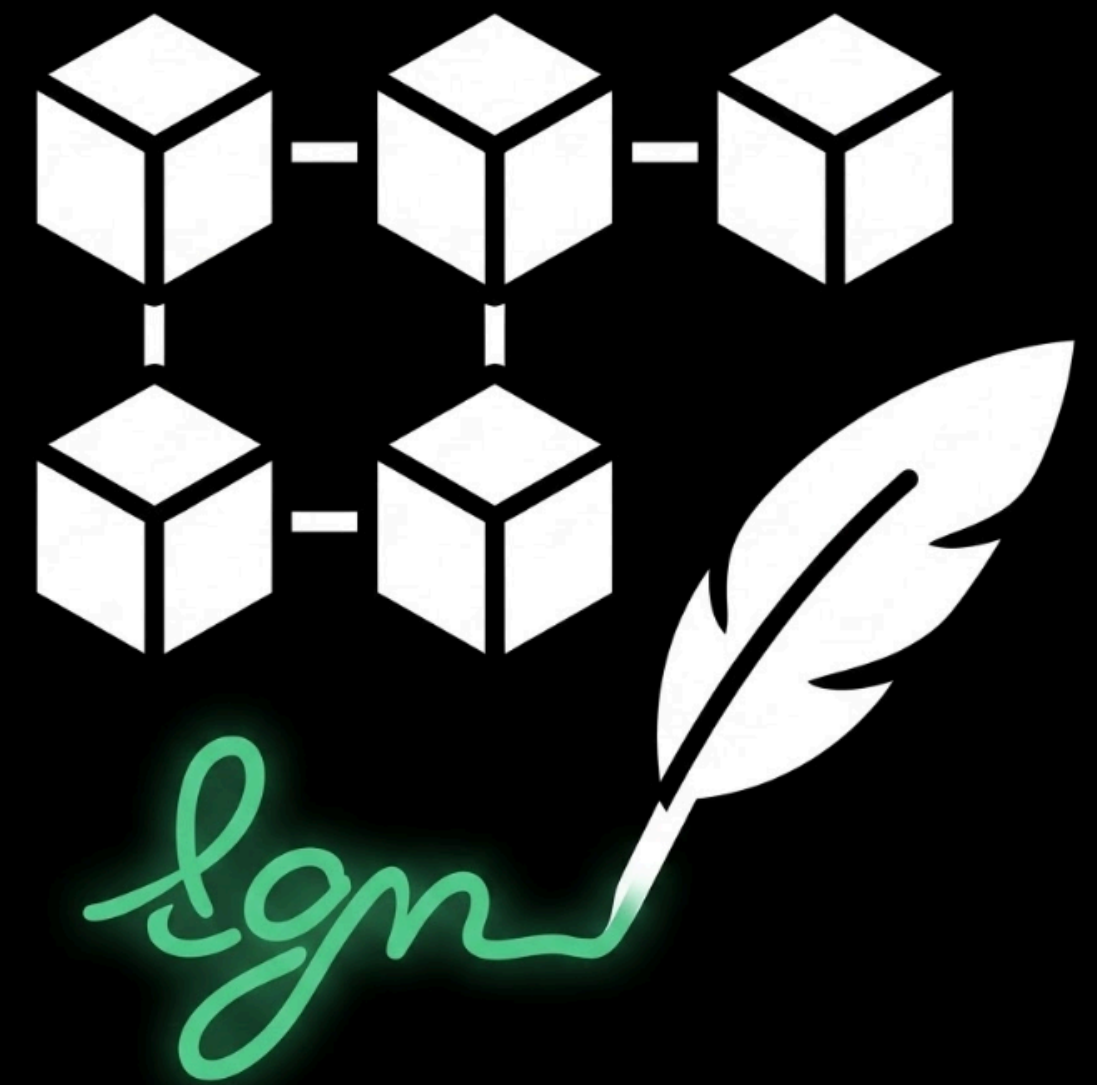| 1. RAW DATA LAYER	2. ENCRYPTION SEAL (Zero-Trust)	3. WALRUS DATA_BLOB	4. TEE NAUTILUS (Trusted Execution)	5. SIGNING VIA SLUSH (Identity)	6. COMMIT SUI (Governance)
System entry. Raw, sensitive, non-compliant data. "Ground Truth".	Structured encryption, FHE-ready. Network never sees clear data. Encrypted payload.	Encrypted durable twin. data_blob_id, proofs. No security logic.	Analysis & Compliance (Score, PII, Malware). Structured Report & encrypted_data_blob_id construction.	Cryptographic signature (Report, encrypted_id, attestation). Proof of origin & integrity.	**SiriusDatasetSnapshot Object:** encrypted_data_blob_id, report_hash, compliance_verdict, slash_signature. Immutable register.

{Sirius}

Blind AI Audit

- Nautilus TEE : Only place data is decrypted
- Network sees nothing
- Runs GDPR, Malware, Quality checks
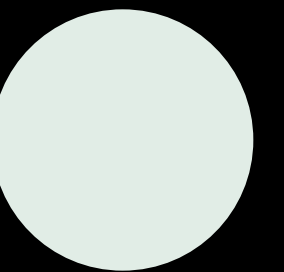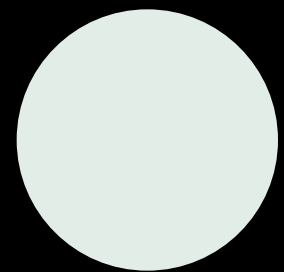
{Sirius}

On-Chain Governance

- Sui holds signed compliance report
- Data location masked
- Immutable audit trail & Slush Identity

{Sirius}
Key Benefits

- End-to-end Security

- Programmable Compliance

- Immutable Audit

{Sirius} ⌘

Join the Future of Trusted Data

Ready to deploy v2

Let's build together