# Hybrid Backup Service with Decentralised Sovereignty

### Motivation Traditional backup systems

- Lock-in: Providers may shut down, increase prices, or alter policies (e.g., reduce encryption guarantees), leaving users with limited options.
- Regulatory pressure: Centralised providers may be compelled to compromise security measures.
- Data loss: If the central service fails, users may permanently lose access to backups.

## How to fix it? Hybrid System

- Centralised component: convenience + performance
- Decentralised component: retain user control

# WAL PIUS

#### Technical Ingredients

#### Centralised component

- Caching
- BW-heavy sync with Walrus
- Complex coins conversions
- Data lifecycle management

#### Decentralised component

- Store encrypted data
- Long-term persistence
- Complex coins conversions
- Failsafe for retrieval

#### Design Goals

- User Sovereignty
- Service Portability
- Usability without compromise
- Sustainable ecosystem adoption

- Week 1 Research & Setup
- Week 2 Basic Walrus Integration
- Week 3 Encryption Layer
- Week 4 Caching Layer
- Week 5 Performance
- Week 6 Client Interface
- Week 7 Resilience & Direct Recovery
- Week 8 Testing & Final Presentation