

# Whitepaper Diagram: Cross-Chain Verified Agent Economy

Universal Profile (LUKSO) + ERC-8004 Verified Agent (Ethereum) + x402

## 1. High-Level Architecture

Interaction Layer	x402 (HTTP 402 Payment Required)
Economic Execution	Universal Profile (LUKSO) <ul style="list-style-type: none"><li>• Wallet</li><li>• Permissions (LSP6)</li><li>• Micropayments</li></ul>
Verification Layer	ERC-8004 Verified Agent (Ethereum) <ul style="list-style-type: none"><li>• Capability Claims</li><li>• Reputation</li></ul>

## 2. Trust & Payment Flow

1) Agent sends request → 2) Service responds with x402 challenge → 3) Agent verification via ERC-8004 → 4) Payment executed via Universal Profile → 5) On-chain receipt verified → 6) Service response delivered.

## 3. Positioning vs World ID / DID / VC

- World ID / DID / VC: Identity as proof (human-centric, access control)
- This Stack: Identity as actor (agent-centric, economic execution) World ID answers 'Who are you?' — This stack answers 'What can you do and can you pay?'

## Design Principle

Identity, verification, and payment are separated — but cryptographically linked. This enables autonomous agents to operate as first-class economic actors without API keys, custodial wallets, or centralized billing systems.