



Spectrum'25

ARXIVE

**SMART CONTRACT LIFECYCLE
MANAGEMENT SUITE**

TEAM: GENESIS





PROBLEM STATEMENT

Aptos

- **No Efficient Archival** – Unused smart contracts remain on-chain, consuming storage.
- **Lack of Lifecycle Management** – No built-in tools for modifying, tracking, or archiving contracts.
- **Cumbersome Deployment** – Requires multiple terminal commands, making the process inefficient.
- **Storage Constraints on Aptos** – Move's resource-oriented model makes contract deletion difficult.
- **Immutability vs. Scalability** – Removing/modifying contracts conflicts with blockchain finality & verifiability.
- **No Unified Developer Tooling** – Developers lack a single platform to manage smart contracts seamlessly.

****Aptos lacks a comprehensive smart contract management system**

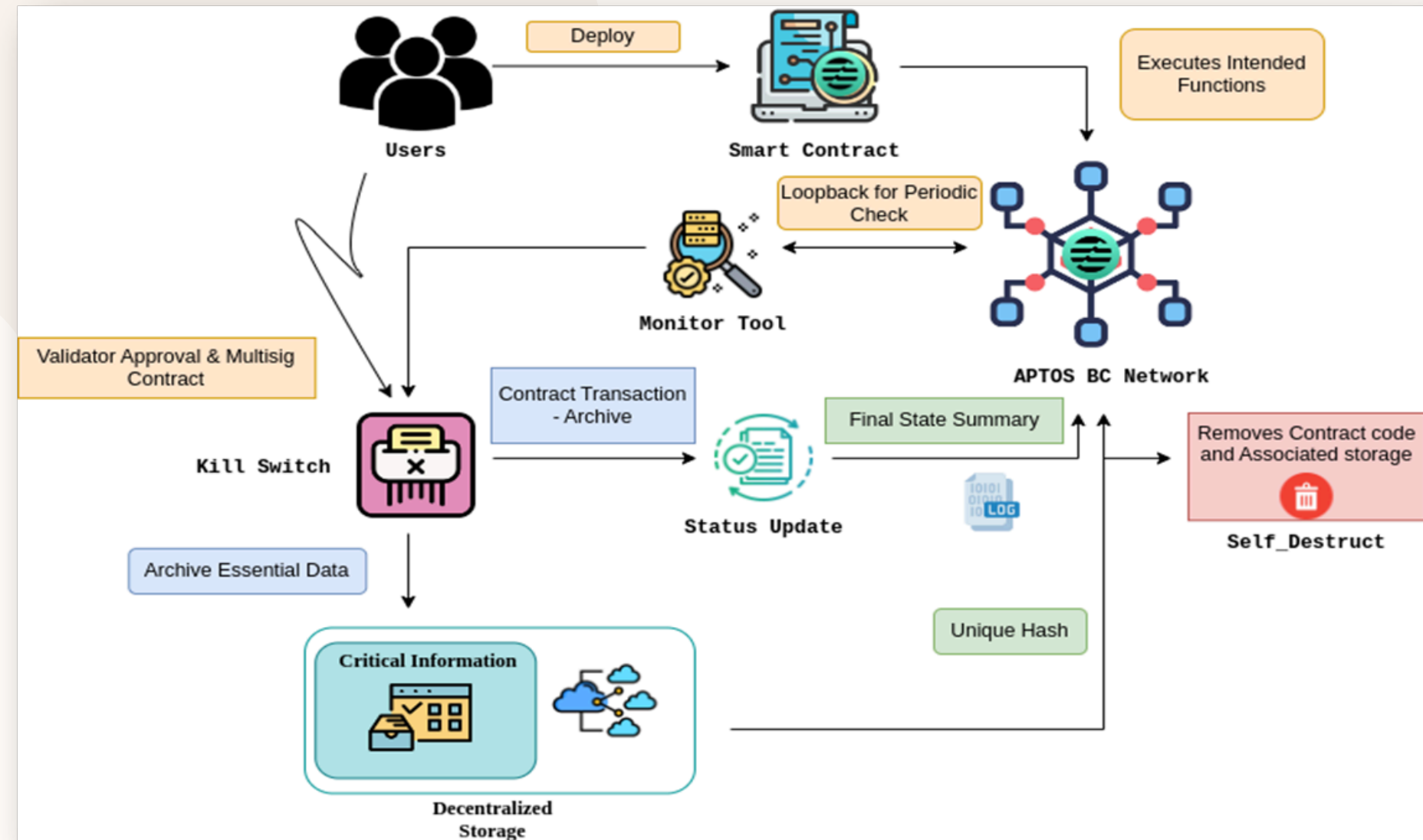
WHY THIS IS IMPORTANT?

- **Reduces blockchain bloat by optimizing storage usage.**
- **Improves developer experience with easy contract deployment & management.**
- **Enhances security & verifiability while maintaining Aptos's core principles.**
- **Ensures long-term scalability for dApps by enabling structured contract management.**



OUR SOLUTION

Arxive



Smart Contract Lifecycle Management

A decentralized platform tailored for Aptos that enables developers to archive, manage, and retrieve smart contracts efficiently—streamlining the entire contract lifecycle.

Deployment and Retrieval Workflow

Offers a one-click deployment system for Aptos Move contracts and enables selective contract validation and retrieval, eliminating manual complexities and enhancing developer productivity.

Off-chain Storage

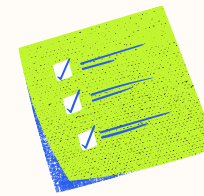
Balances on-chain and off-chain storage by moving archived contracts to IPFS, while storing only the proofs on Aptos, reducing gas fees and storage overhead.

Verifiable Archival

Incorporates zk-SNARKs to cryptographically compress and seal unused contracts, ensuring verifiability without compromising immutability—a critical advancement in decentralized archival integrity.



MARKET OPPORTUNITY

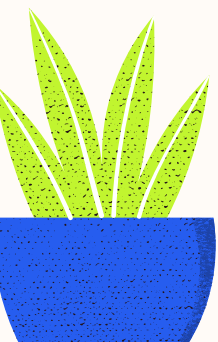


* Value Propositions

- Arxives business model centers around providing a comprehensive smart contract archival and verification platform on Aptos, leveraging zk-SNARKs for proof generation and offering a built-in Move code editor.
- They target blockchain developers, enterprises, and Web3 startups, fostering relationships through developer support and community engagement.

* Revenue Streams

- Freemium API model (basic archival free)
- Premium enterprise services (custom archiving, zk-proof verification)
- SaaS subscription model (advanced analytics, team collaboration)
- Enterprise API licensing for Web3 platforms



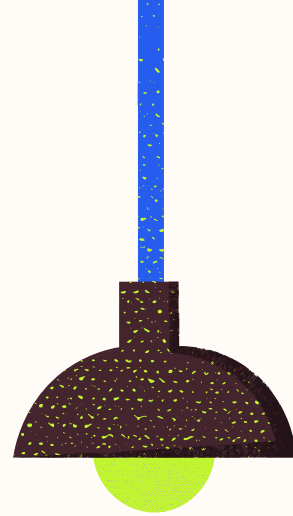
Revenue Streams: Aptos Move, Aptos SDK, zk-SNARKs (Groth16/Plonk), IPFS

Backend & Storage: NodeJS, Aptos REST API, MongoDB, IPFS-based archival

Frontend & UI: React, Next.js, Tailwind CSS

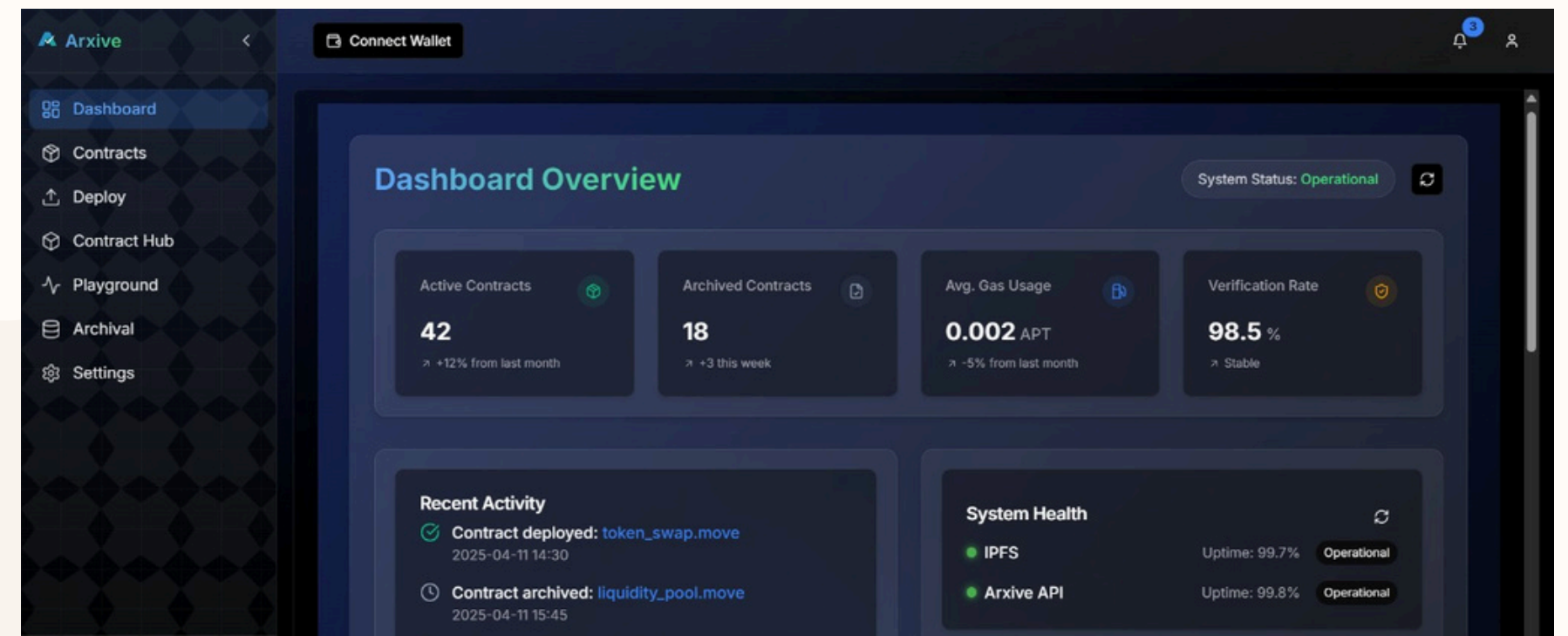
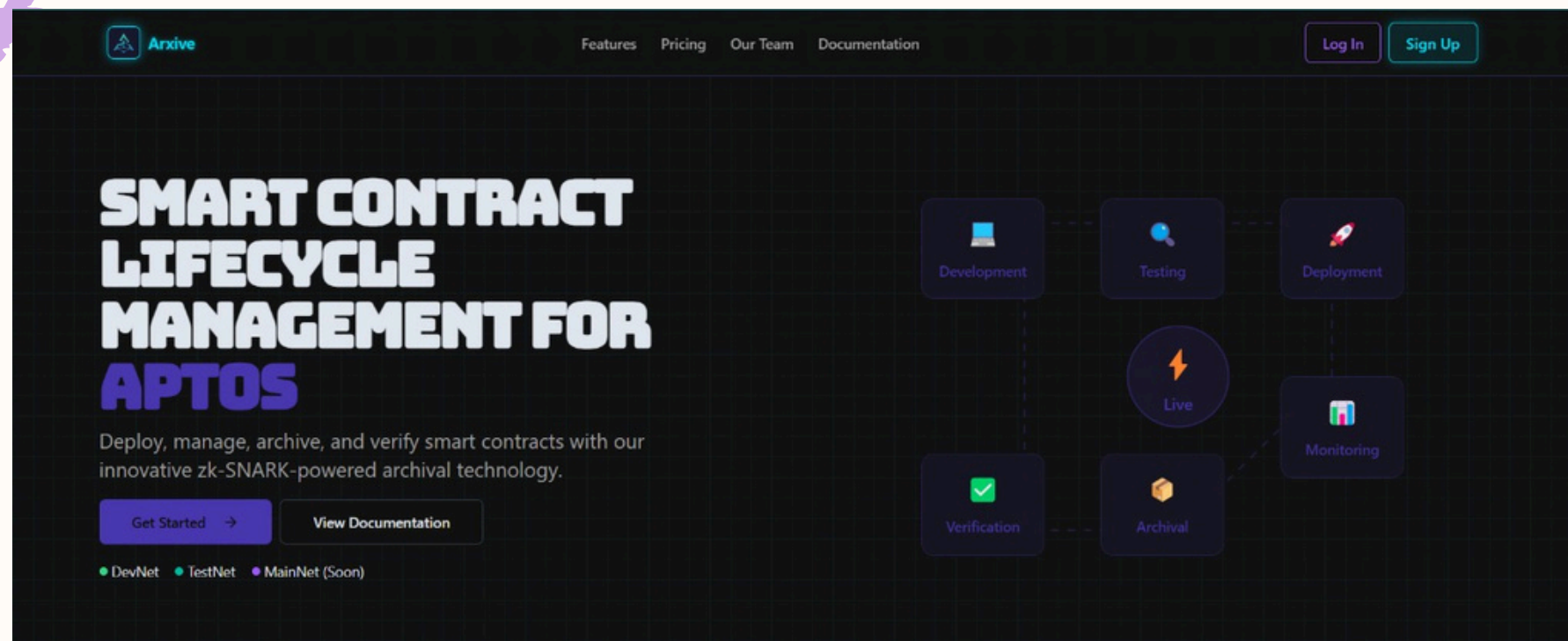
Security & Validation: Zero-Knowledge Proofs (ZKPs), State Commitments, Cryptographic Hashing

TECH STACK



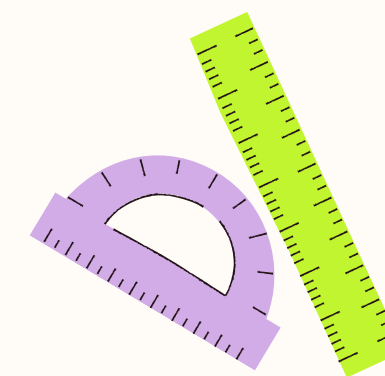
DELIVERABLE

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29779171	04/12/2025 09:15:12.258	0x5f79...0775	0x5f79...0775	registry::archive_contract	0 APT Gas -0.000029 APT
29699796	04/12/2025 09:09:18.979	0x5f79...0775	0x5f79...0775	TicTacToe::start_game	0 APT Gas -0.00049 APT
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THANK YOU

