

Engineering

Organisation + Roles

casper

Mark Greenslade
July '23

Core Protocol

R&D

DeFi

Integrations

DevOps

Advocacy

Core Protocol

- **Ed Hastings**
 - Major centre of gravity change
 - Attended ACTUS DC
 - Synced with R&D team
- **Domino effect**
 - Engineer migration
 - A List = 5 ... B List = 4
 - PREPARATION not solicitation !
- **Roadmap**
 - If 1.5 then clear 1.6, 1.7, 2.0, 2.1, 2.2, 2.3
 - 2.3 = design space optimised
 - Crypto-economics needs a lot of work
 - DeFi supports needs focus + dog-fooding
 - ZK proof verification optimisation is essential

R&D

- **Team composition**
 - Applied Cryptographer
 - 5 engineers
 - 1 intern
- **Further Hiring**
 - Blockchain Architect/Scientist
 - Assistant
- **Focus H2 2023**
 - L1 node FFI extensions
 - ZK-WASM integration
 - ACTUS ZK Gateway

DeFi

- **DeFi Integration Support**
 - Build up L1 primitives from ground up
 - Algo Stable | LSD | AMM ...etc
 - Series of mini projects
- **Advanced end-to-end prototypes**
 - L1 stress test
 - L2 integration feasibility
 - Rich content
 - Advocacy group
 - Developer portal

Integrations

- **Eco-System Growth Support**
 - E.G. Nes-Tech
 - Inevitable technical support requirement
 - Proposal assessments
- **Can be random time sink**
 - Smart contract learning friction
 - SDK friction -> has improved
 - Caused issues at Labs
- **3 person team**
 - 1 lead engineer
 - 2 support engineers

Advocacy

- **Advocates = engineers**
 - Need deep platform knowledge
 - Not just smart contracts
 - Not just documentation
- **Showcase DApps**
 - 4/5 examples
 - Defi | Supply Chain | Notarisation ... etc
 - Allows advocates to do engineering
 - Identify pain points & best practise
 - Rich content for developer portal

DevOps

- **Cross cutting**
 - All engineering groups require support
 - DEV, TEST, PROD
- **Core Protocol Testing**
 - Spinning up 200 node networks is expensive
 - L2 infra -> increase complexity and cost
- **R&D Testing**
 - Spinning up ZK prover clusters is expensive
 - Specialist DevOps skillset
- **Other**
 - Small footprint ATM -> is going to change
 - Initial team size: 3 person

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