Harmony

Open Consensus for 10 Billion

To scale trust for billions of people and create a radically fair economy



Who we are



John Whitton Harmony Ecosystem Architect



Gizem Cakil
Product
(aka. Mother of Pangaea)



Culture & Team



Still hungry. Still foolish.

September 2019















Our Community



Mainnet stats

Strength in Numbers

320 foundational nodes

15 top most decentralized blockchains

32% external participation

99% average node uptime



Run a node on your laptop...

Low barrier of entry increases decentralization

2GB RAM

64GB storage

\$25 monthly cloud cost



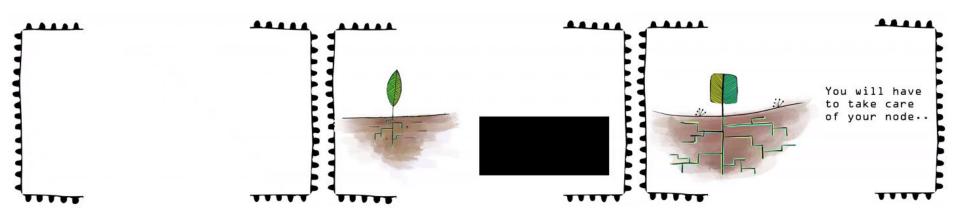
Incentivised Pangaea



Pangaea game onboards thousands to run a network node for the first time.

pangaea Harmony sign-ups different countries 56% first-time running a node external participation min 1-click set-up time

Education is key for decentralization



If we individual people to govern their internet, we need to teach them



Harmony Technology

Scalability Security **Decentralization Privacy**



Deep Sharding

Parallelize our blockchain through state sharding

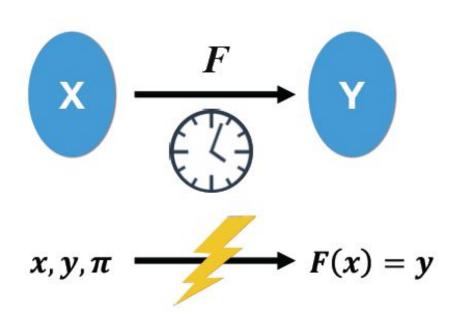
Optimize consensus and networking layers to maximize performance

Combine VRF & VDF for secure and scalable random sharding

1.3s block propagation

2 round trips in our FBFT consensus using BLS signatures

O(1) Secure Resharding



~1000 tx/sec per 400-node shard

Verifiable Delay Function from scratch



Harmony Developer Tools

Harmony Protocol harmony.one/github

API's harmony.one/api

SDK harmony.one/sdk

Testnet harmony.one/testnet

Smart Contracts harmony.one/h2o

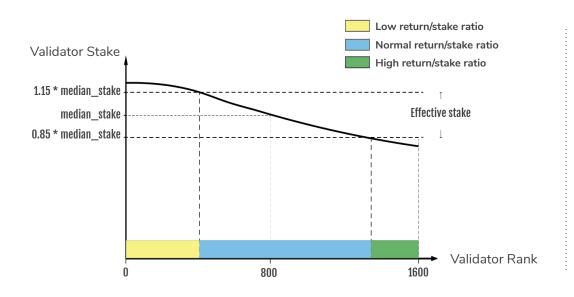
What's Next

Speed of Execution





Effective Proof-of-Stake

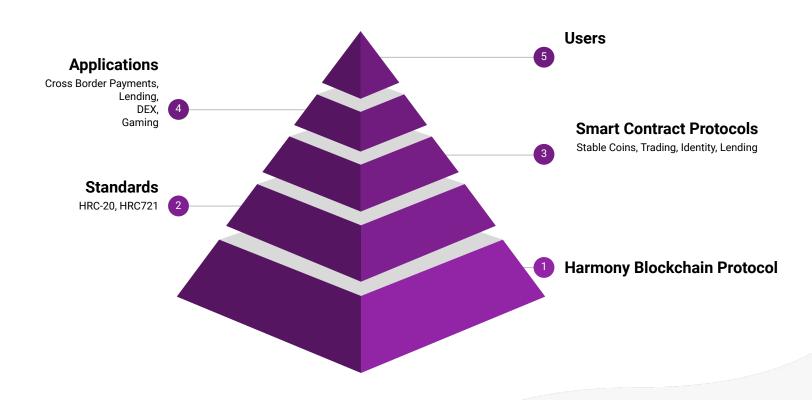


Staking without centralization

Allows compounding returns



Utilization - Harmony Ecosystem





How you can help

Join our community @ harmony.one/dev
Tooling Gurus
Smart Contract Protocols
Dapp Developers

Join Harmony Community

harmony.one/dev

Learn about Harmony

docs.harmony.one

Build on Harmony

harmony.one/github

Partner with Harmony

harmony.one/



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