

Sybil resistance in modern PoW and PoS networks is capital-based, making them plutocracies at the very core.

Plutocracies inevitably lead to centralization. Mining cartels and validator oligopolies dominate the market.

P R O B L E M



We solved this by getting rid of PoS and PoW that make validation power dependent on the amount of capital and by introducing private decentralized biometric verification of human existence and uniqueness for validator deployment.

Nodes in the Humanode network are created through private biometric verification of uniqueness using facial recognition Al modules. Nodes are equal in terms of validation and voting power, bringing true equality between peers in decentralized networks.

1 human = 1 node = 1 vote.

All validators become equal owners of the blockchain they run. The protocol remembers that a node is bound to a unique face of a living human.

If you try to deploy another node with the same face the attempt will be rejected. Biometric data is private and stored in a decentralized way across validator nodes in the system.

Combined with blockchain, it creates a first-ever human-based verification layer.

SOLUTION













# PARTNERS



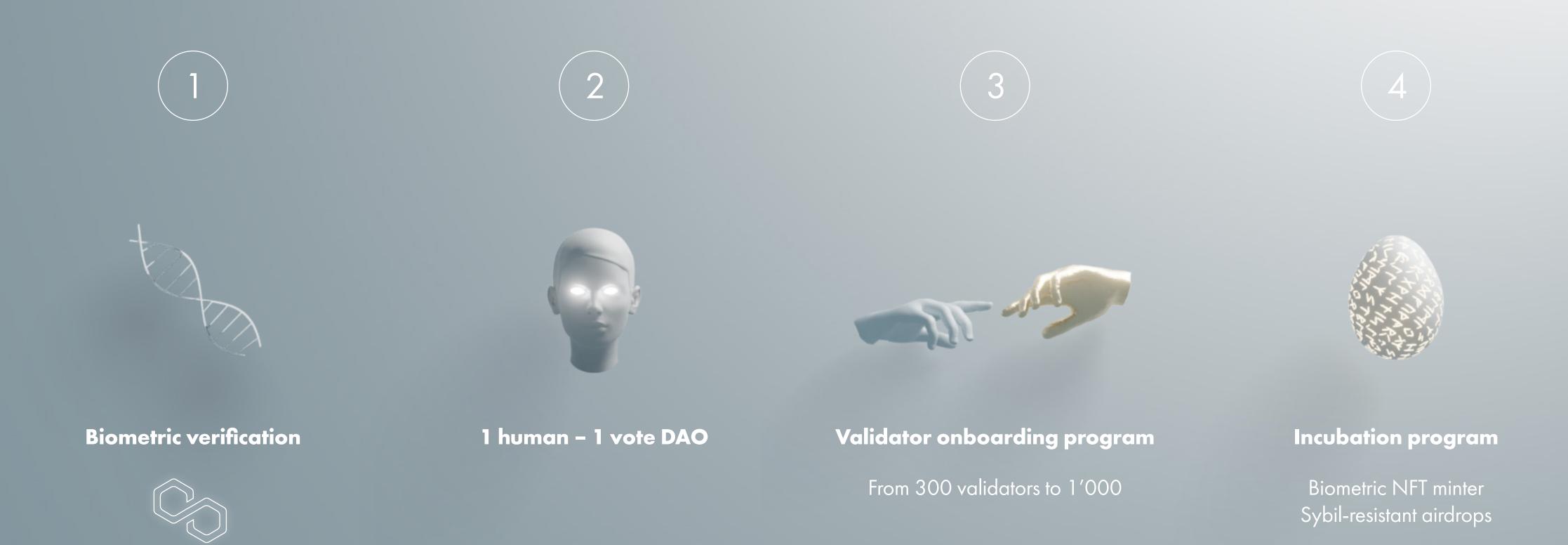












## GO-TO-MARKET STEPS



Consensus-agnostic protocol



Substrate framework



Private biometric search and matching



1 human = 1 vote DAO 'Vortex'



Decentralized auditable liveness detection



EVM-compatible smart-contract layer

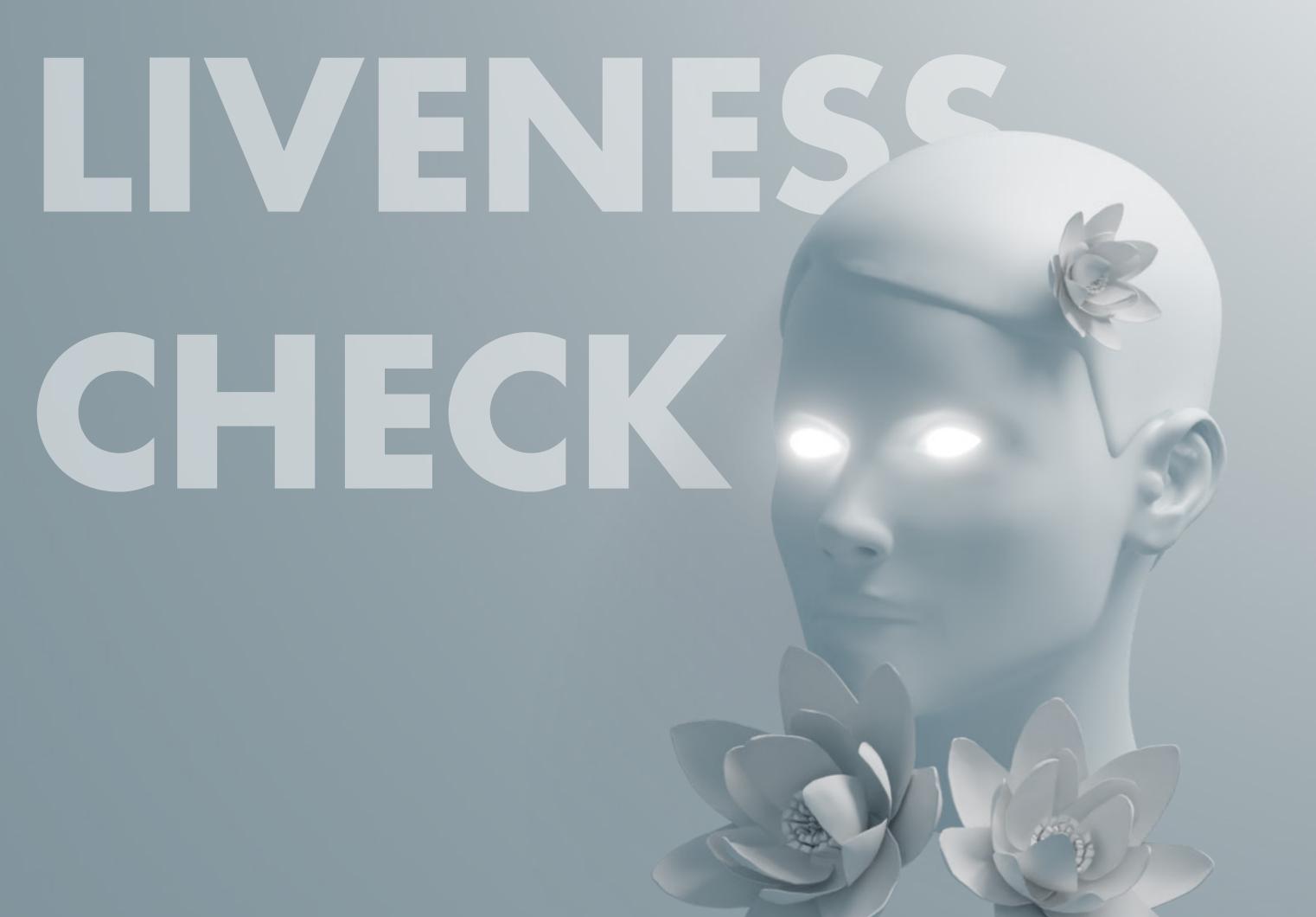
### TECH STACK

# UNIQUENESS CHECK The positive of the positiv

The possibility of a match between two different people

1 O U T O F

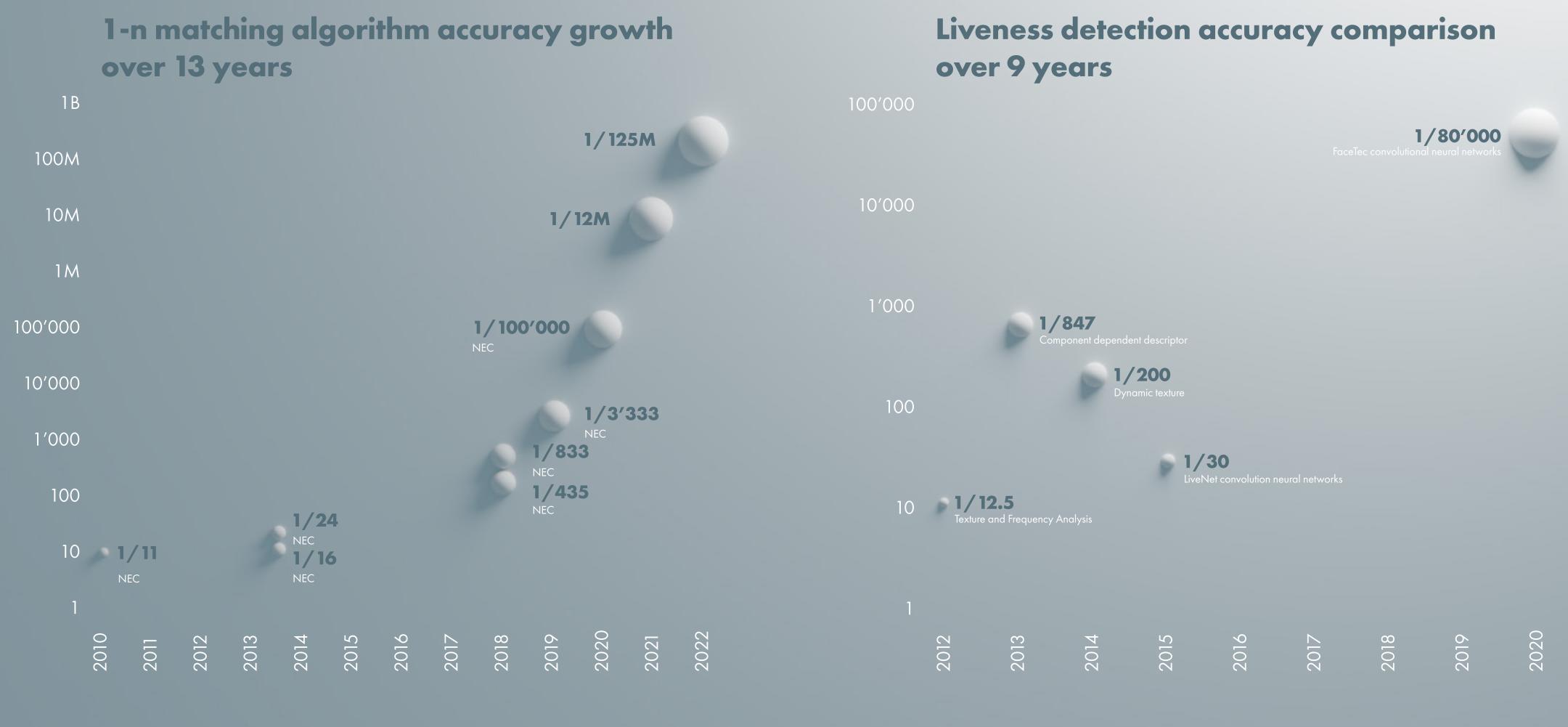
BIOMETRIC SYBIL RESISTANCE



The possibility of spoofing an identity without a real human in front of the camera

1 O U T O F

BIOMETRIC SYBIL RESISTANCE



### INCREASE IN BIOMETRIC ACCURACY

Q1 Q2 Q3 **Public tests Bioauth consensus Testnet II** of biometric app Aura testnet launched Validator app > 10'000 validators >100 validators joined **Q4** Q3 Q2 Q1 Mainnet **Bug fixes** Public EVM-compatible **Internal EVM-compatible Testnet III Testnet III** Refactoring tech debt Bioauth + BABE + Grandpa consensus **Biometric authorization** service Q1 Q3 **Q4 Q2 Cost-based** Fath calculating algorithm Distributed private Zero-knowledge biometric enclaves biometrics tests fee system **Open-source reps Q2** Q3 Q1 **BCI / Neurosignatures** Multi-modal One-click humanode app biometric security private tests Proposal pool system Fath Formation **Vortex DAO** Developer framework

