

2022-



BOOL Network



A LayerBase based on MPC, ZKP and TEE technologies.

Provides distributed private key management, Oracle and heterogeneous cross-chain bridge services.

Core Technology

LayerBase

MPC

MPC replaces the multi-signature, with higher scalability and privacy. Consensus services can be implemented through MPC.

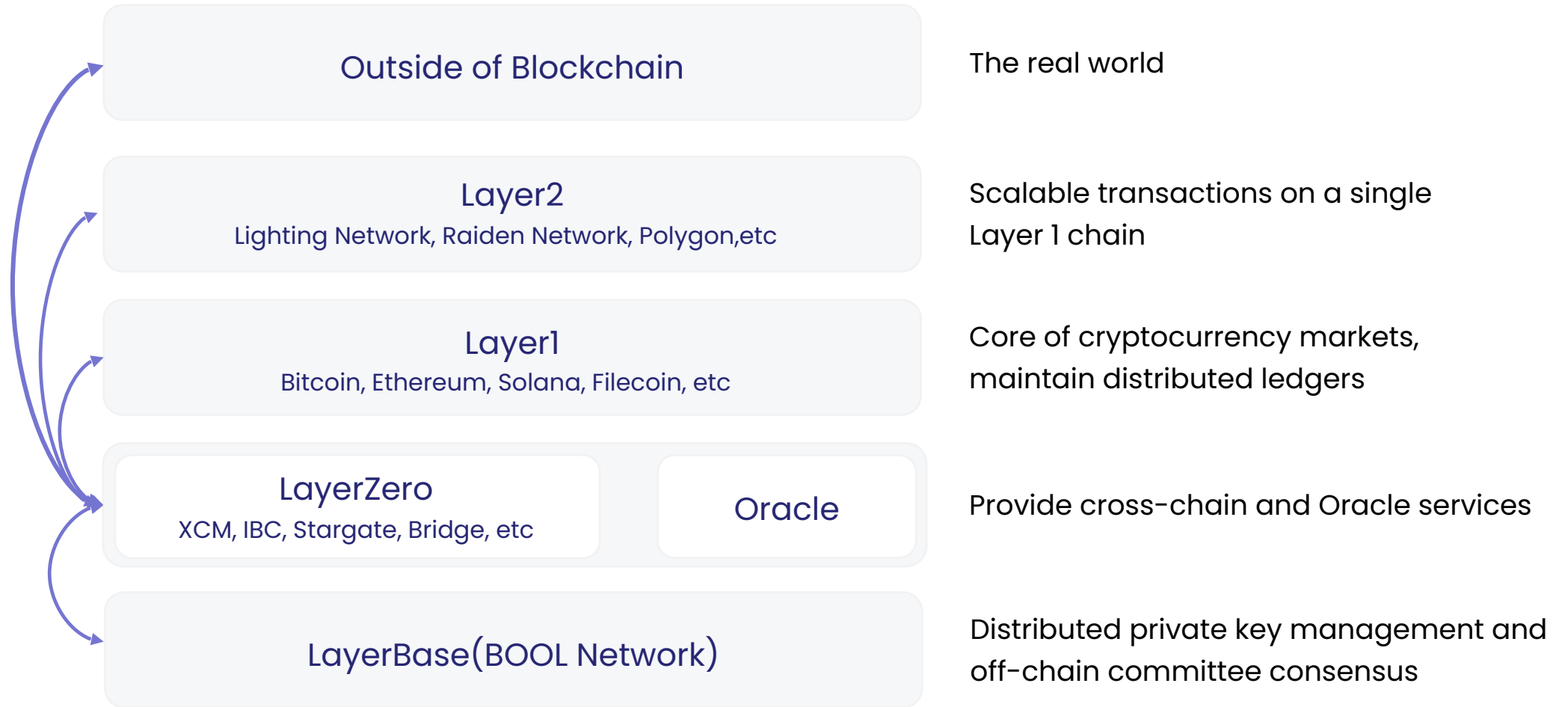
ZKP

ZKP is used in TEE to facilitate non-interactive liveness and authenticity proof, and applies Ring VRF Protocol to hide provers in committee.

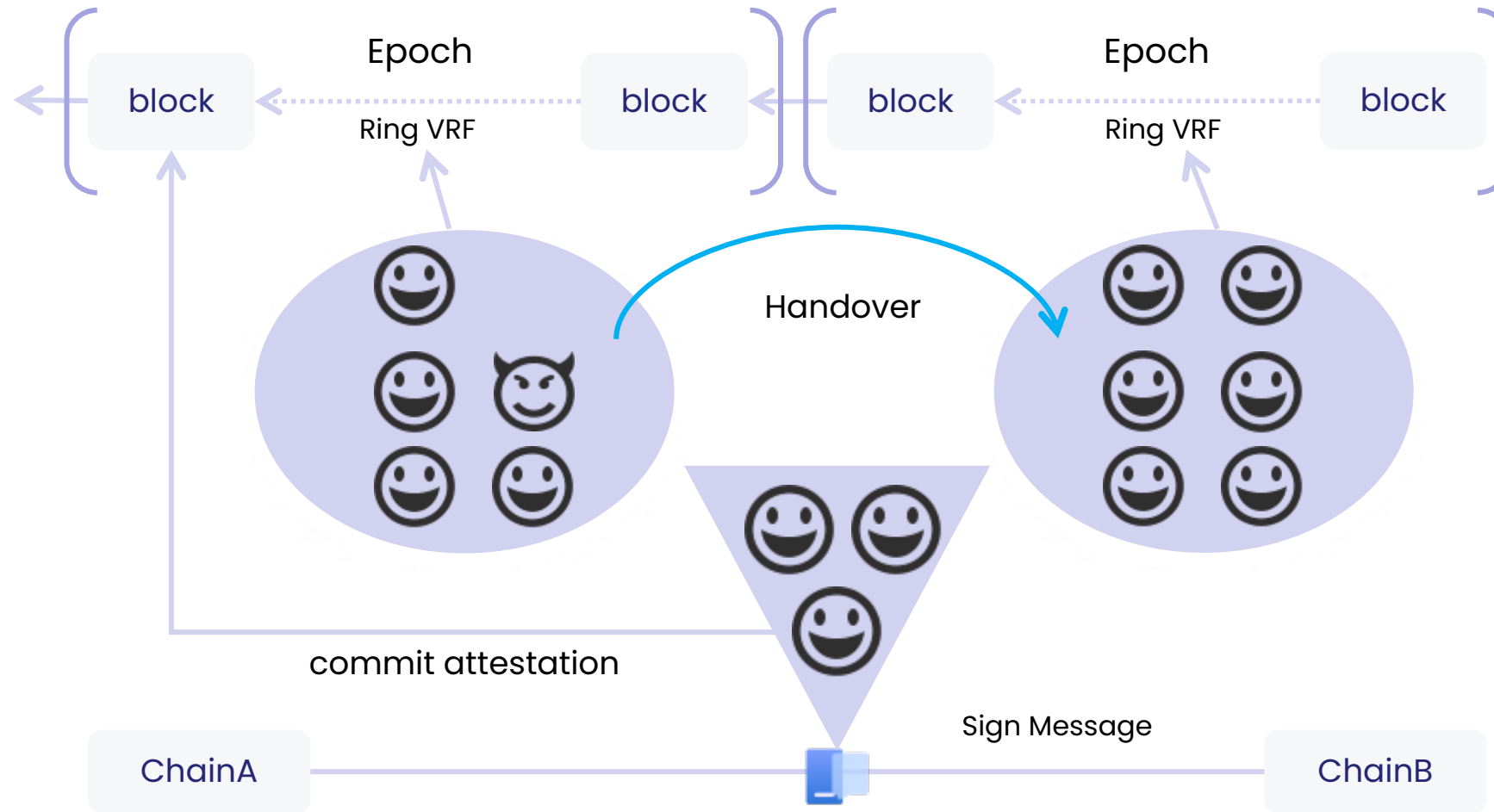
TEE

TEE is a trusted environment that provides data security transfer, ensuring that MPC nodes operate in accordance with system logic, thereby expanding the set of MPC nodes, not constrained to individuals.

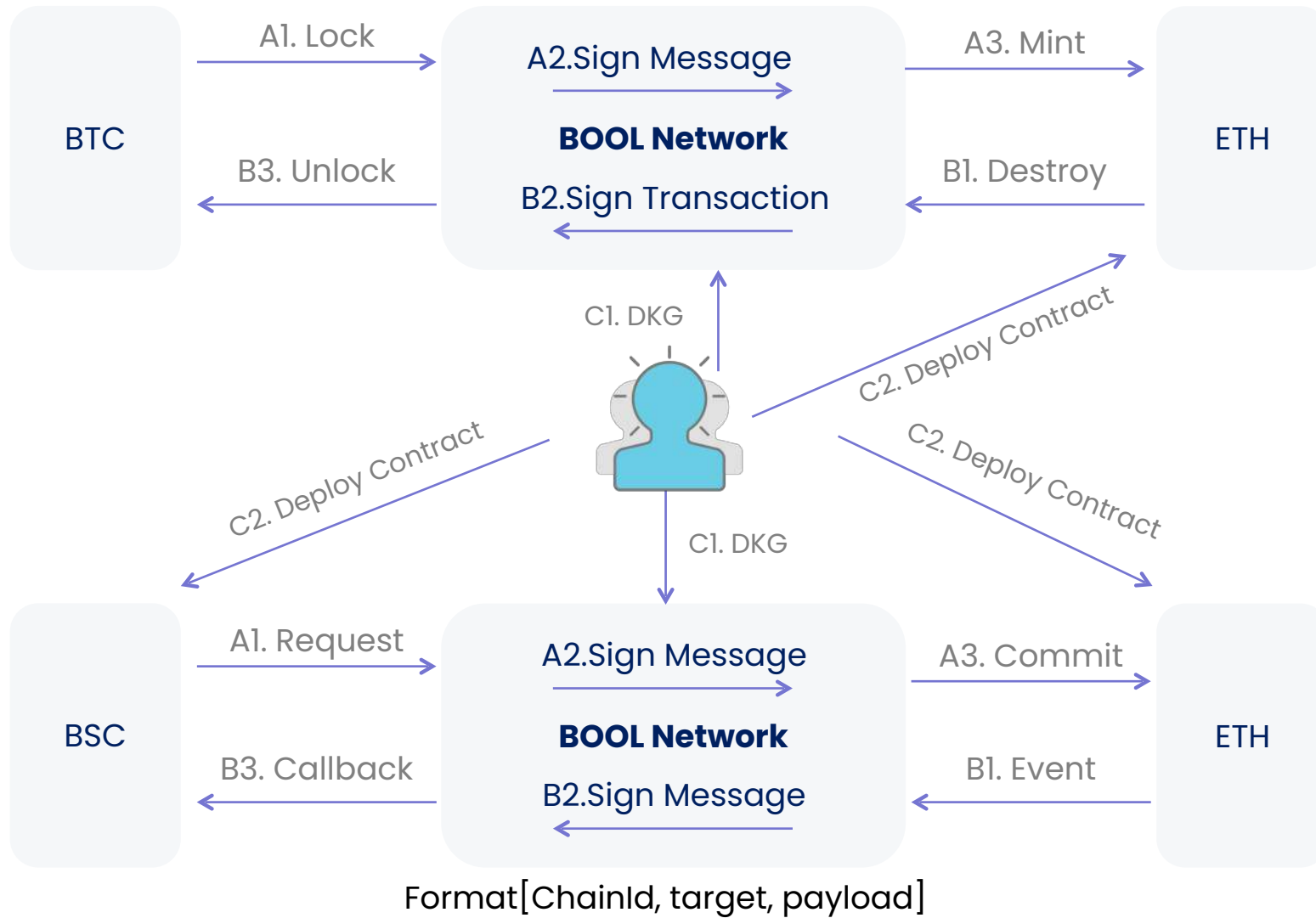
System View



Architecture



Bridge Protocol



Oracle Protocol

Protocol



Chainlink



Band Protocol



NEST Protocol



Bridge Oracle

Datasource



Committee



SDK



Chain



Manager



BOOL Network

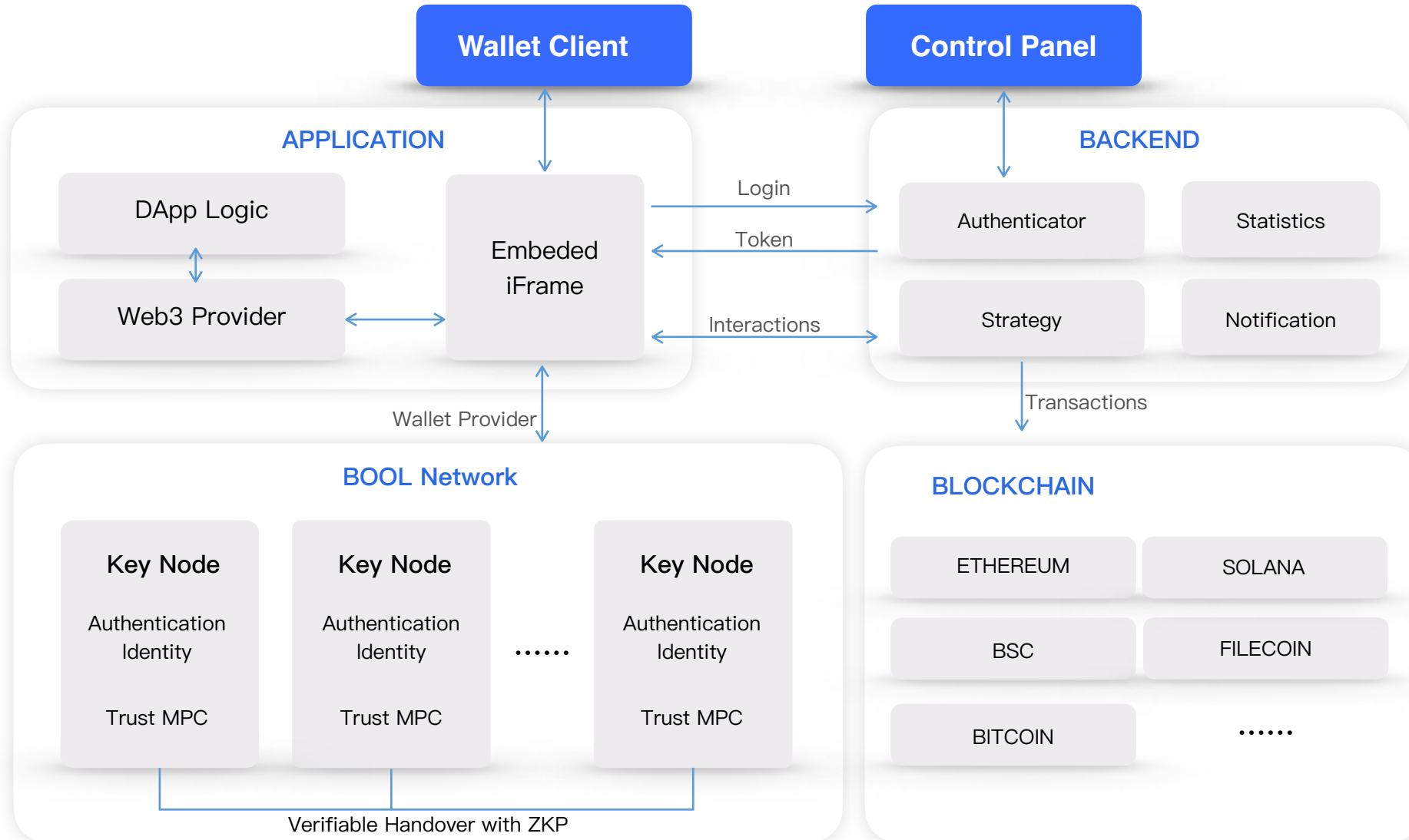
More trusted external data sources

Safer data transmission and processing

Faster implement

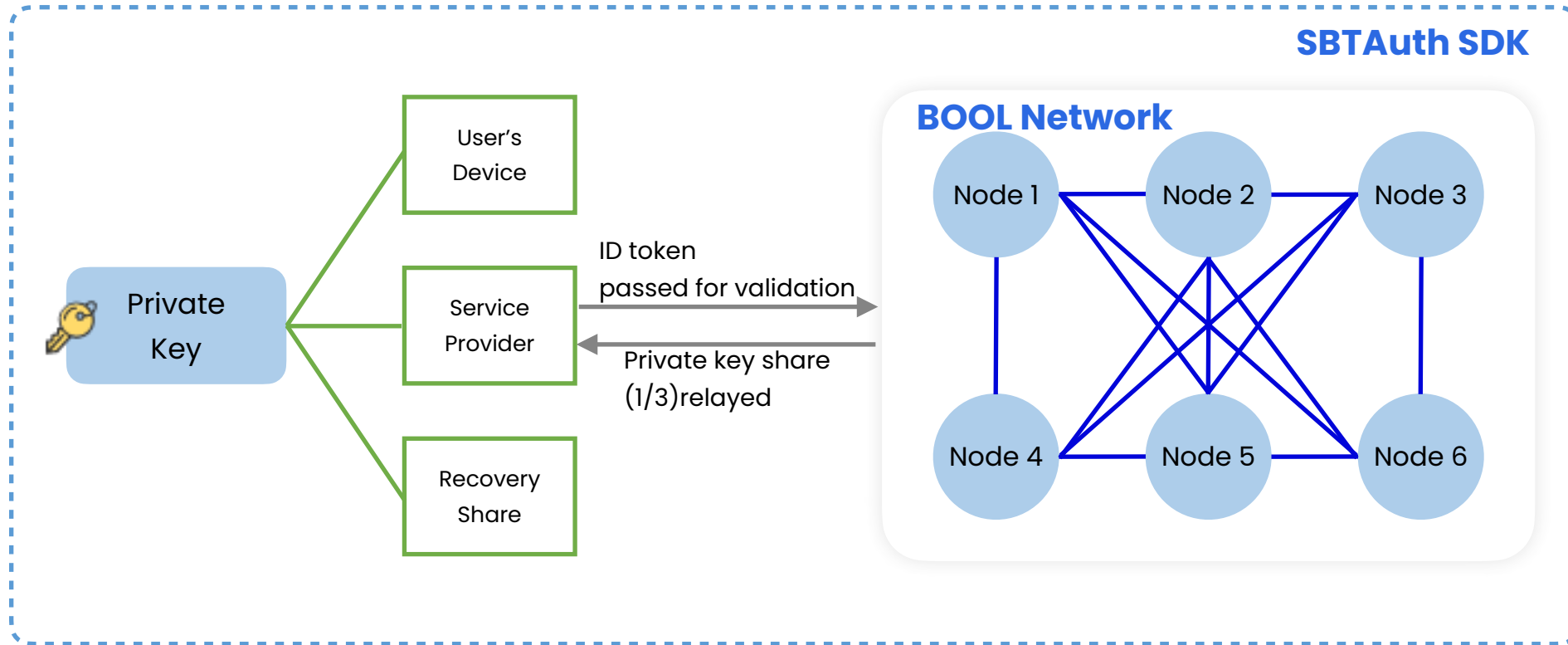
Lower cost

BOOL Product – Safematrix



Safematrix is A
Secure and
Trustless Digital
Asset Platform
for DAO

BOOL Product - SBTAuth



SBTAuth provides a cross-platform and multi-chain identity authentication and authorization platform, which helps developers, enterprises and DAO to easily manage their identities, realize single sign-on, and allow Web2.0 users to easily link to Web3.0 scenarios.

Competitors

Project	HOP	Polkadot	Celer	THORChain	Stargate	ChainLink	BOOLNetwork
Token	HOP	DOT	CELR	RUNE	STG	LINK	BOL
Solution	Layer2 Network	Relay Chain	MPC Network	MPC Network	Oracles + Relayer	Committee	Dynamic Committee
Decentralization	High	High	Middle	Middle	Middle	Middle	High
Support Heterogeneous Chains	No	No	Yes	Yes	Yes	Yes	Yes
Asset Conversion	Liquidity Swap	Destroy/Mint	Atomic Swap	Destroy/ Mint + Swap	Liquidity Swap	Lock/ Mint + Swap	Lock/Mint + Liquidity Swap
Support Contract Calls	No	Yes	No	No	No	Yes	Yes
Engineering Realization	Medium	Difficulty	Medium	Medium	Medium	Medium	Difficulty
Support Cross-chain/ Oracle Protocol	No	No	No	No	No	No	Yes

Team

Global Leaders in Private Computing

Matrix Labs is the world's first innovative combination of MPC, TEE and ZKP technologies to solve the problem of 'signature is power'.

The team has deep knowledge in academic and extensive experience in engineering, with 14 papers in the field of privacy computing. They also have deep knowledge and experience in deploying complex crypto system to empower Web 3.0.

@ESORICS'21 / NDSS'19 / FC'19 / PKC'17 / PODC'17 / ASIACRYPT'16 / EUROCRYPT'15 / CCS'15 / INFOCOM'14

Qualification

Bool Network: An Open, Distributed, Secure Cross-chain Notary Platform

Zeyuan Yin, *Student Member, IEEE*, Bingsheng Zhang, *Member, IEEE*,
Jingzhong Xu, Kaiyu Lu, Kui Ren, *Fellow, IEEE*

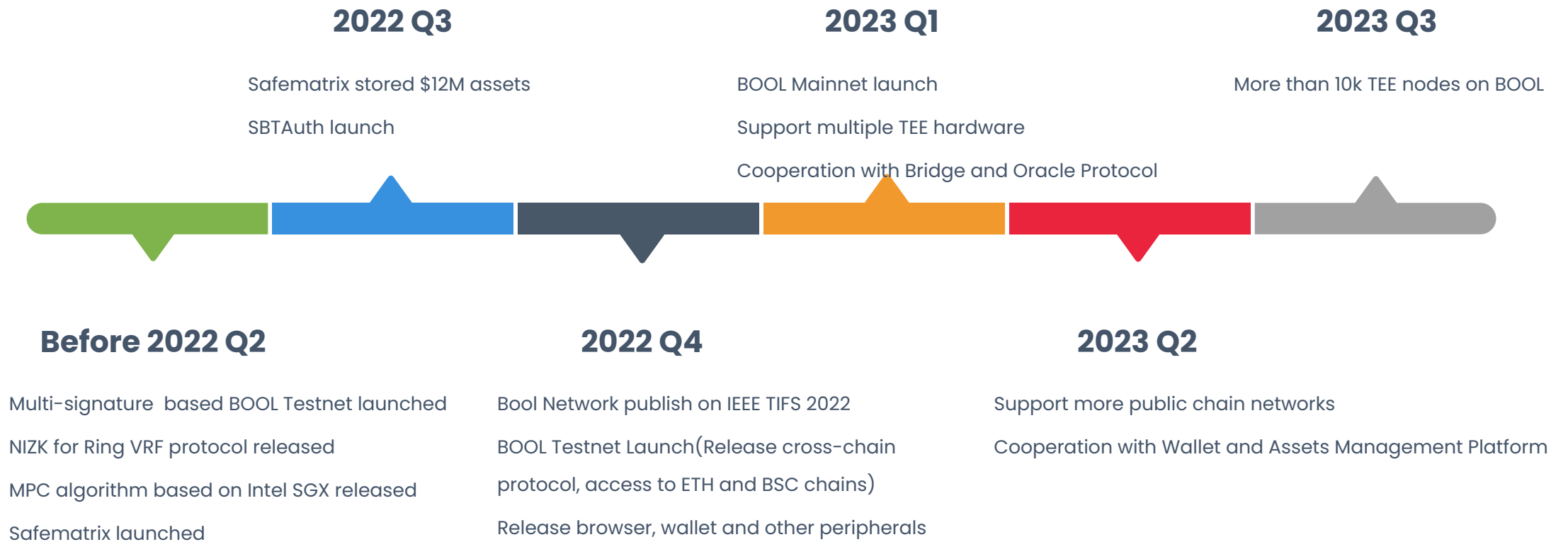
IEEE TIFS (IEEE Transactions on Information Forensics and Security)



web3.0
bootcamp

project supported by
web3 foundation
grants program

Roadmap



Follow Us

