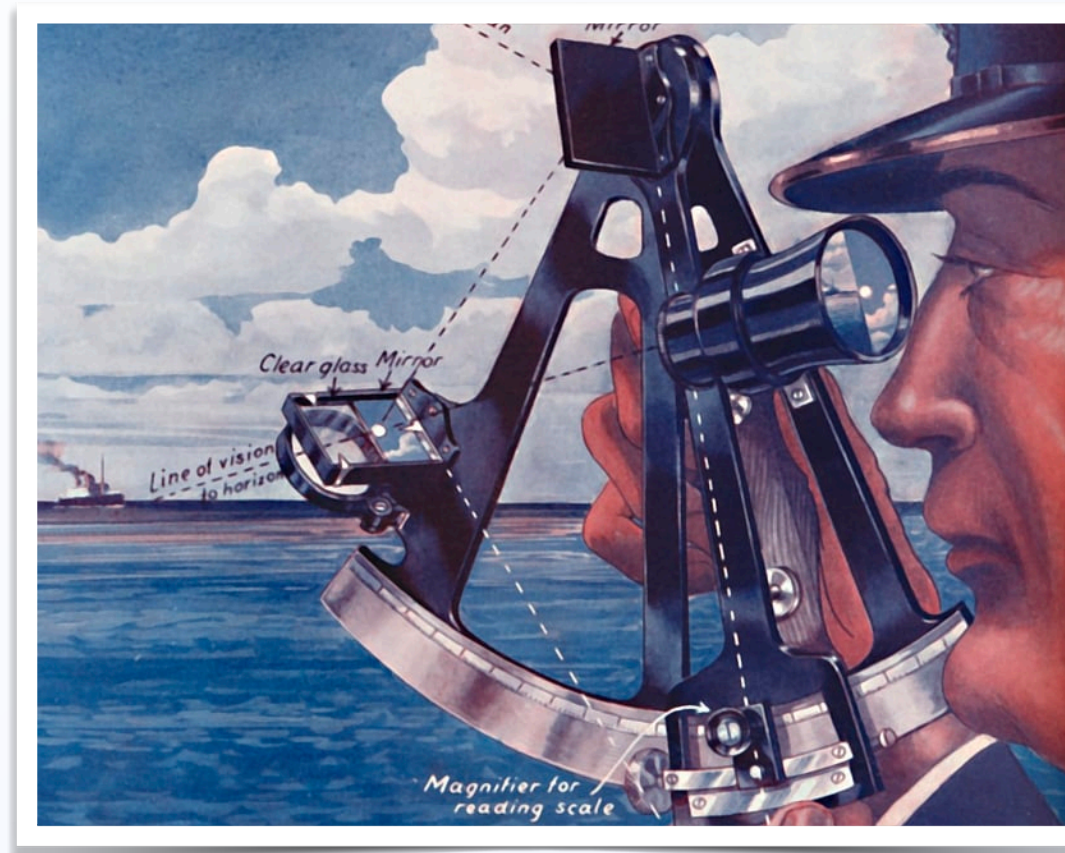# Building a World Powered by Cryptographic Truth
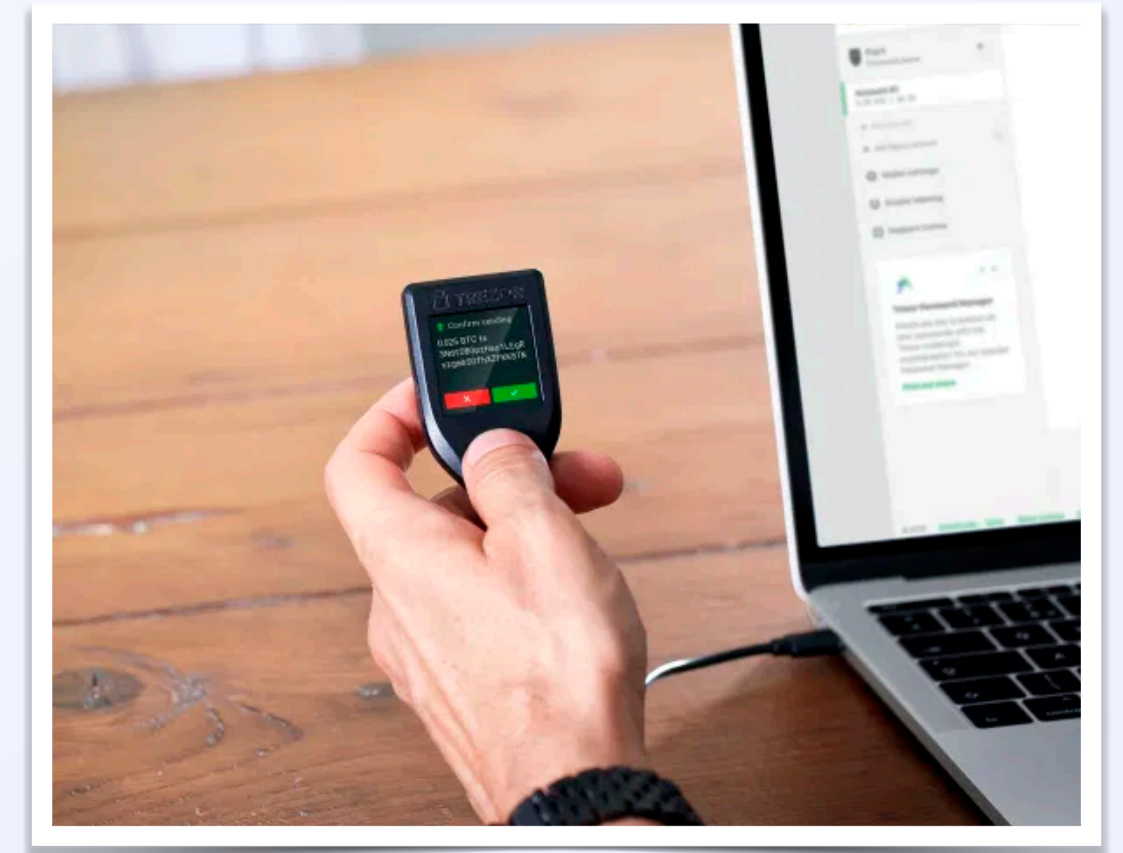

Mythical into Religious Truth

Measurable into Scientific Truth

Printed into Digital Truth

Computational into Cryptographic Truth

Chainlink

Written = Probabilistic = Breakable | Cryptographic = Deterministic = Unbreakable

- **Control** is completely **given away** to others
- Counterparty **risk** is **raised** and opaque
- **Transparency** is purposefully **removed**

- **Control** is **retained** by the user themselves
- Counterparty **risk** is **lowered** and transparent
- **Transparency** is unavoidably **built-in**

Trust My Brand and "Hope For the Best"
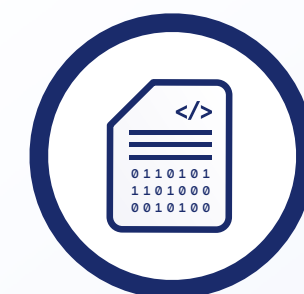
Verify The Math and "Control your Coins"

$$y^2 = x^3 + 7$$

10+ Billion

Data Points Delivered On-Chain

> "Chainlink's DON has seen significant adoption and is a likely driver of DeFi's growth to **$203bn** in total value locked (TVL) "

coindesk

Business Feb 17, 2022

BofA Says Chainlink Likely Driver for DeFi's TVL Growth to $203B

10B

8B

6B

4B

2B

0

JUL 2021　　　JAN 2022　　　JUL 2022　　　JAN 2023　　　JUL 2023

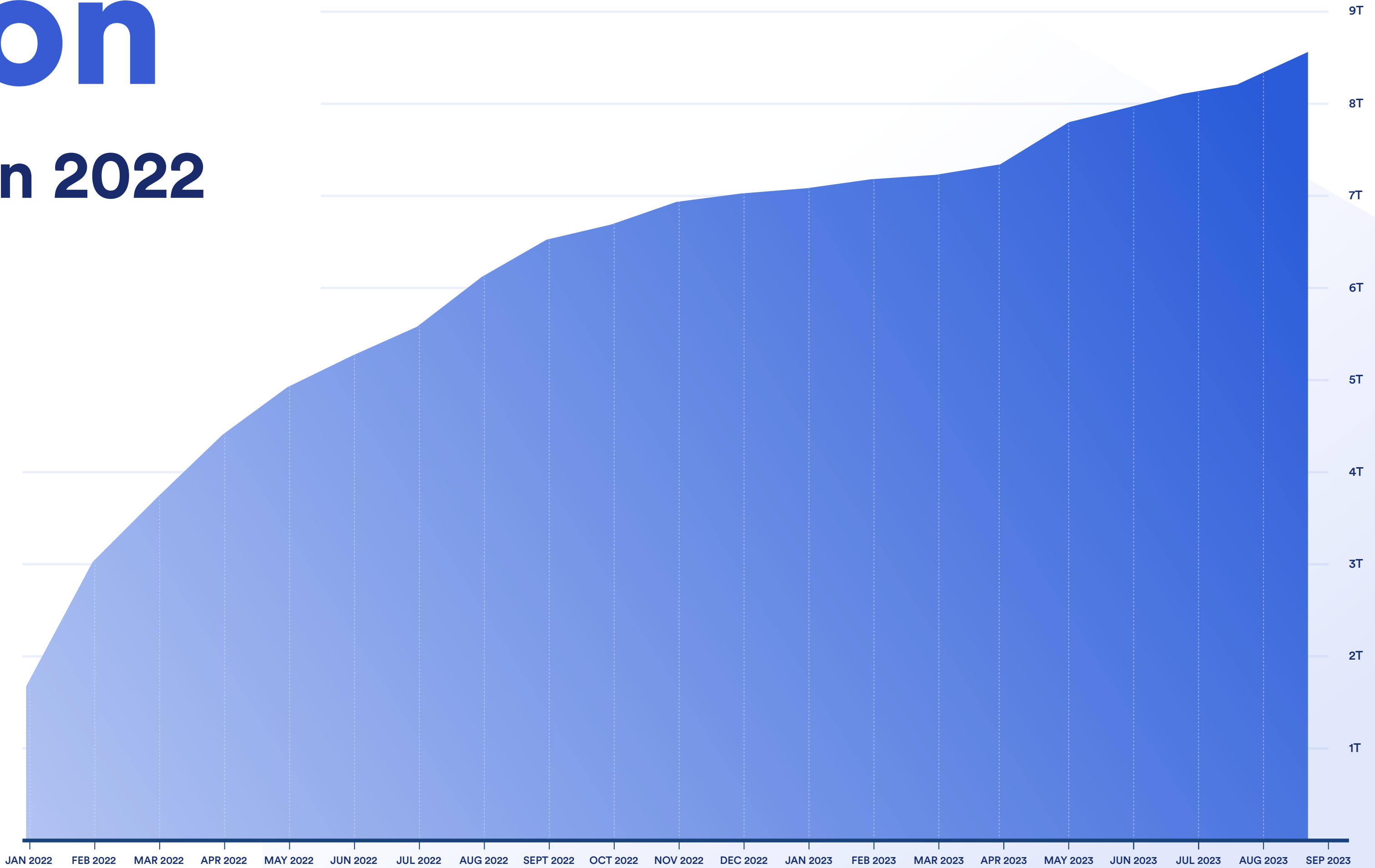**DATA POINTS SERVED TO BLOCKCHAINS BY CHAINLINK ORACLES**

Chainlink

TRANSACTION VALUE ENABLED (TVE)
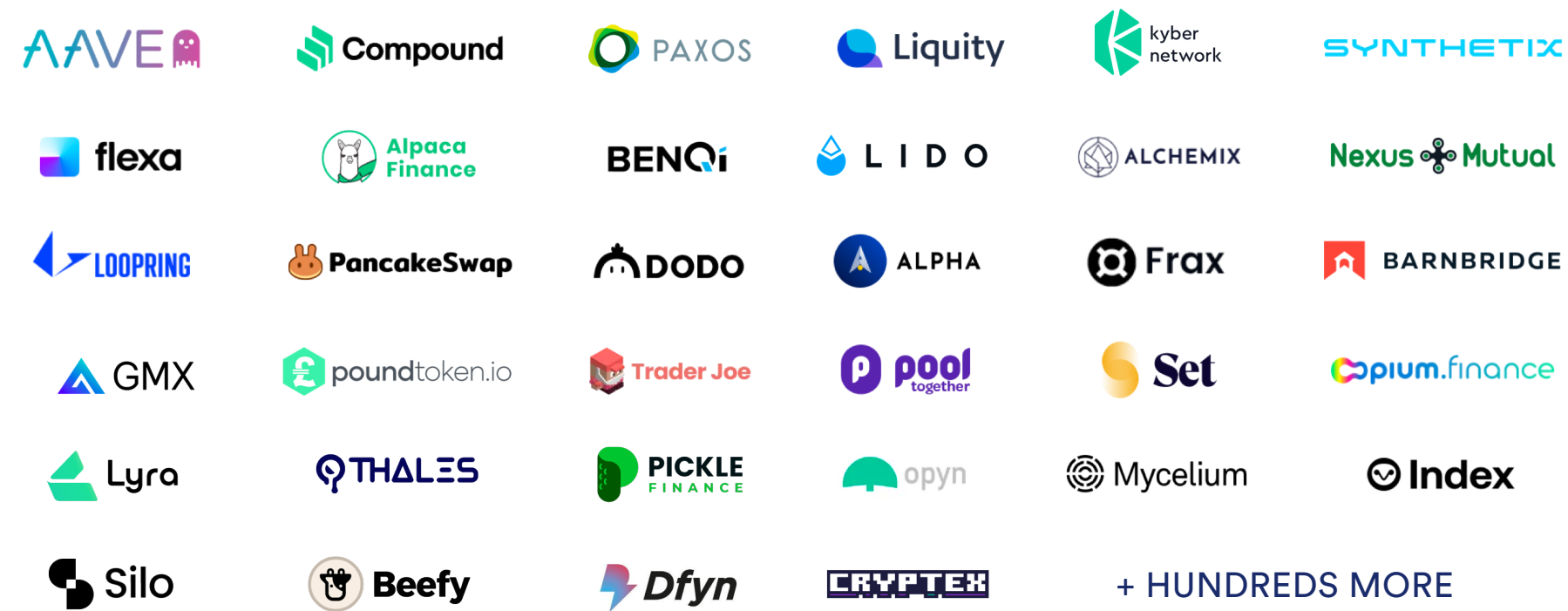
$8.5 Trillion
Cumulative Total Starting in 2022

TVE is calculated by taking the sum of the USD value associated with each transaction utilizing a Chainlink oracle.

Chainlink TVE currently reflects the aggregate USD value of crypto transactions facilitated by Chainlink in 2022 on Avalanche, BNB Chain, Ethereum, Fantom, Gnosis, Heco, Optimism, and Polygon.

+ HUNDREDS MORE

Chainlink Developer Platform/Metalayer

Cryptographically Provable Data

Cryptographically Trust-Minimized Compute

Cross-Chain Value

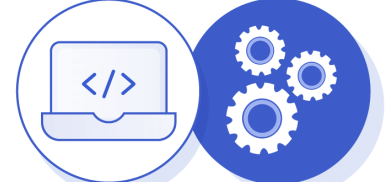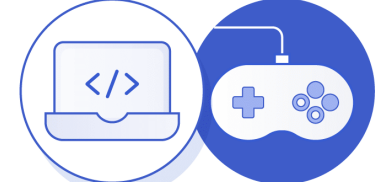| Market Data Oracle Networks | Proof of Reserve Oracle Networks | Identity and Other Data Oracle Networks | Verifiable Randomness Function (VRF) | Automation Oracle Networks | Functions Oracle Networks | CCIP: Cross-Chain Interoperability Protocol |

Decentralized Oracle Networks

T-Systems · swisscom · coinbase · Staked · SIMPLY VC · LinkPool · NO.DE · LinkRiver · Stakin · VALIDATION Capital · Stake Systems · Mycelium Node

ZTAKE · Fiews.io · BLOCKSIZE CAPITAL · ChainLayer · kyber network · Harvest · Prophet

+ hundreds more

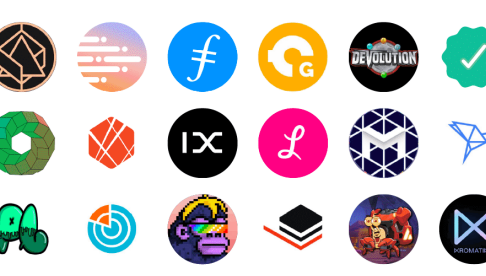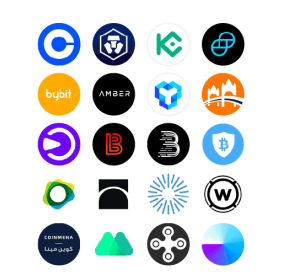| DeFi Contracts | CeFi Applications | Real-World Asset Proofs and Wrapped Assets | New Hybrid Smart Contracts | Web3 Contracts | Web2 Applications | DeFi Contracts | CeFi Applications | New Trust-Minimized Applications | Cross-Chain Smart Contracts |

Real-World Asset Proofs and Wrapped Assets: CGT · WBTC · BTCB · eFIL · AAVE · GEMINI · CACHE · Ava Labs. · PAXOS · BitGo · archblock · Swingby · COREST

Web2 Applications: DOLCE & GABBANA · AO · bmm · aws · Lemonade

ETHEREUM · OP · A · polygon · X · ghost

OPTIMISM · polygon · BNB CHAIN · SOLANA · Gnosis Chain · Moonriver · CELO · OKEX · PLASM · HYPERLEDGER · CONFLUX · Harmony · rsk · Algorand · Moonbeam

ARBITRUM · BASE · AVALANCHE · STARKNET · zkSync · Polkadot · fantom · COSMOS · Edgeware · Klaytn · Kava · METIS · Hedera Hashgraph · OASIS · + hundreds of blockchains

+ hundreds more
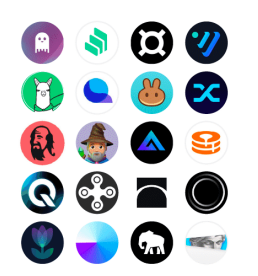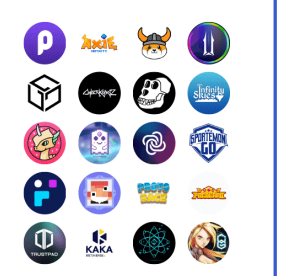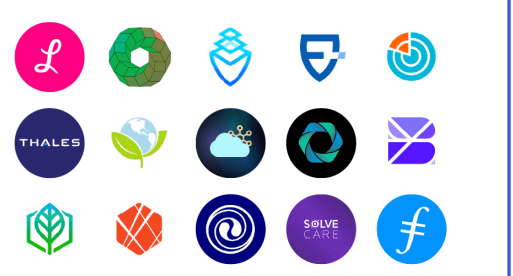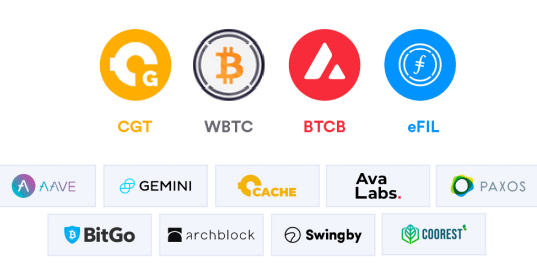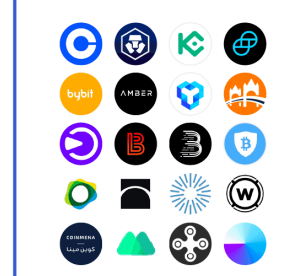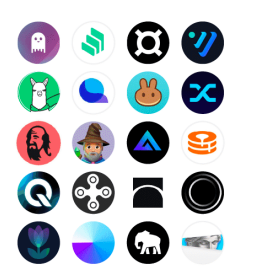
CROSS-CHAIN INTEROPERABILITY PROTOCOL

CROSS-CHAIN INTEROPERABILITY PROTOCOL

CROSS-CHAIN INTEROPERABILITY PROTOCOL

Global Banks

Asset Managers

Clearing & Settlement Depositories

Central Bank Digital Currencies

Unsafe Smart Contracts Create Toxic Assets That Users Will Actively Avoid

Centralized Market Data

❌ 10011000
❌ 00101
❌ 1100100

Insecure Centralized Data Sources

❌ 11001
❌ 000011
❌ 101100

Unsafe dApps That Lead to Loss of User Funds and Toxic Assets

1110

✓ 11001
11010 ✓

00111 0111

Toxic Assets in Toxic Markets

Futures and options exchange

sBTC sETH sUSD ...

Decentralized synthetic asset issuance

Reliably automated fee distribution

Chainlink

Unsafe Smart Contracts Create Toxic Assets That Users Will Actively Avoid

Centralized Market Data

Insecure Centralized Data Sources

Insecure Centralized Computation

Unsafe dApps That Lead to Loss of User Funds and Toxic Assets

Fraud Exposed Smart Contracts

Toxic Assets in Toxic Markets

Futures and options exchange

Decentralized synthetic asset issuance

Reliably automated fee distribution

Chainlink

Unsafe Smart Contracts Create Toxic Assets That Users Will Actively Avoid

Any/All Public & Private Blockchains

Easily Hackable Centralized Bridge

1010001010
0101110

Toxic Assets in Toxic Markets

Centralized Market Data

10011000
00101
1100100

Insecure Centralized Data Feed

11001
000011
101100

Unsafe dApps That Lead to Loss of User Funds and Toxic Assets

11001
11010

1110
001110111

Futures and options exchange

sBTC sETH sUSD ...

Decentralized synthetic asset issuance

Reliably automated fee distribution

Insecure Centralized Computation

110110
001

Fraud Exposed Smart Contracts

101
001

Chainlink

Chainlink's Data Feeds provides Tamper-proof and Conflict of Interest Free Data to Create Fair and Reliable Markets

Exchanges

Data Aggregators

Chainlink Nodes

Reference Contracts

User Contracts

CoinGecko $1.06

GSR $1.08

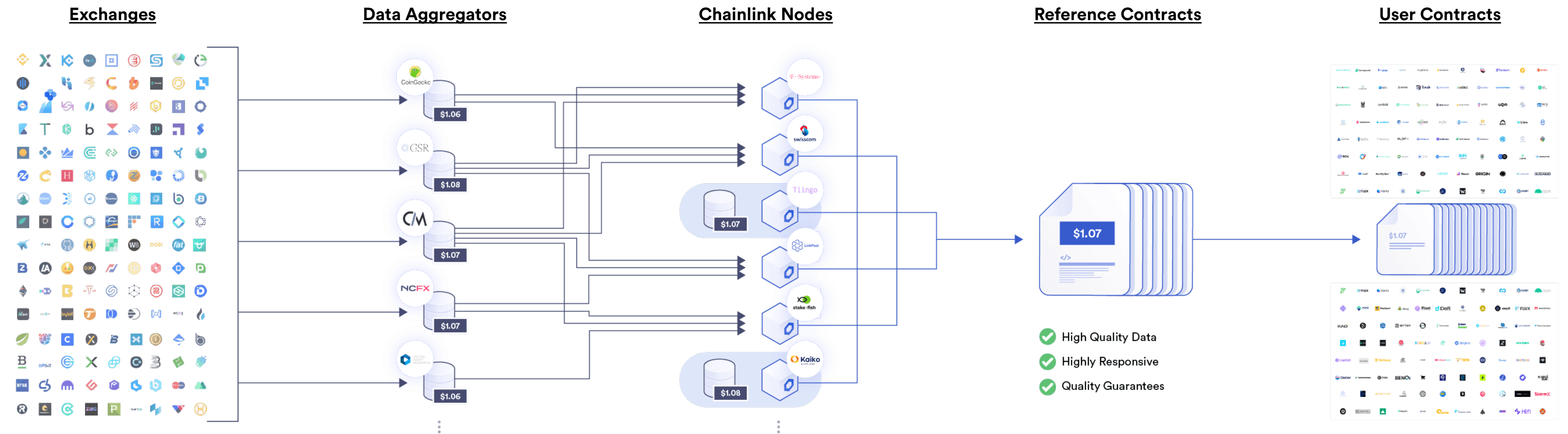C/M $1.07

NCFX $1.07

$1.06

$1.07

$1.08

$1.07

- High Quality Data
- Highly Responsive
- Quality Guarantees

Chainlink's Proof of Reserve Shares Key Solvency and Risk Data with Users to Avoid Over-leveraging

Tokens on Various Blockchains & L2s

AND/OR

Any/All Off-chain Assets or Holdings

Chainlink Network

Proof of Reserve Contract

Decentralized Applications

DeFi Users

On-Chain or Off-Chain reserves balance check

1

2

Obtain collateralization data on any on-chain or off-chain asset

3

Deviation triggers on-chain transaction update

4

dApps autonomously audit asset reserves on-demand

When asset becomes under-collateralized, then trigger transaction failure

5a

When asset is over-collateralized, then trigger transaction approval

5b

Chainlink

"Safe dApps" Deliver the True Value of Smart Contracts and DeFi

Market Data

Chainlink Price Feeds

✓ 10011000

✓ 00101

✓ 1100100

✓ 11001

✓ 000011

✓ 101100

"Safe dApps" as a Superior Product Creating a Reliable Financial System

✓ 11001
11010 ✓

1110

001110111

Reliable and Fair Markets and Assets

Futures and options exchange

sBTC sETH sUSD ...

Decentralized synthetic asset issuance

Reliably automated fee distribution
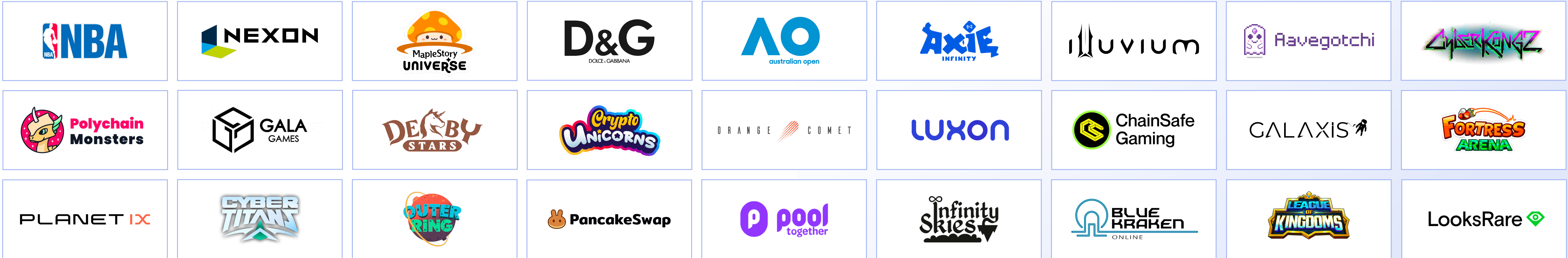
Chainlink

"Safe dApps" Deliver the True Value of Smart Contracts and DeFi
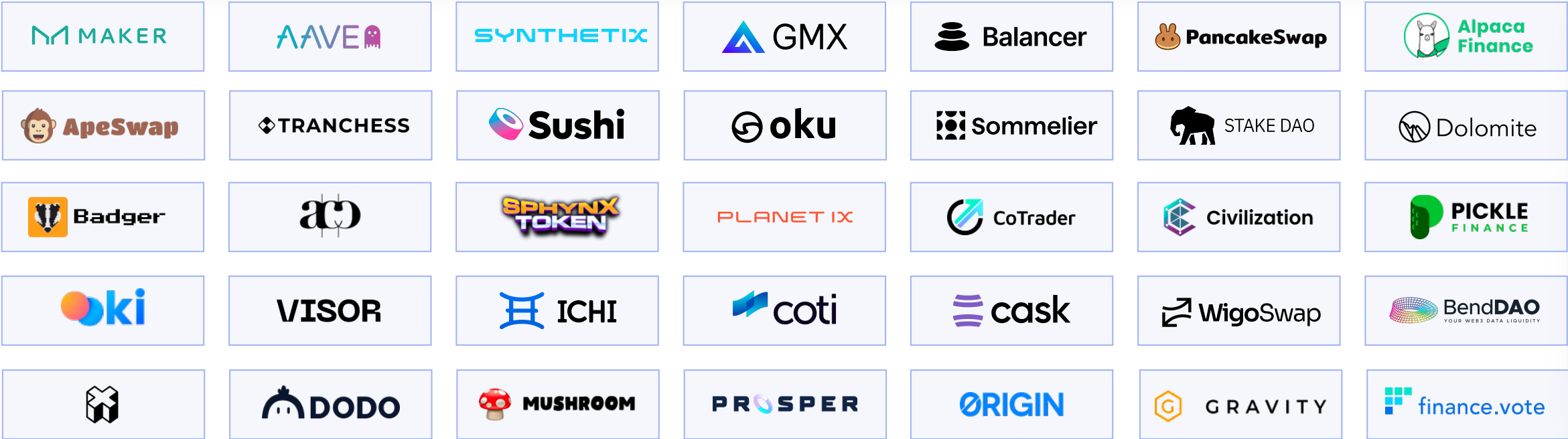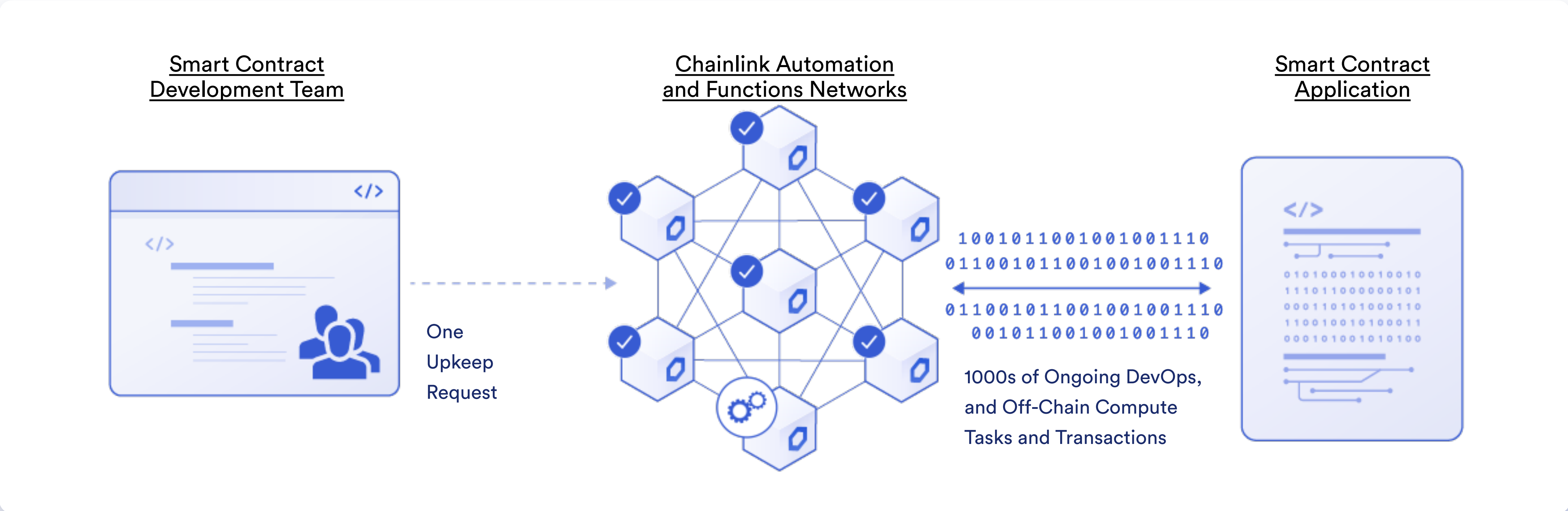
Verifiable Randomness: Provably Fair Gaming and NFTs
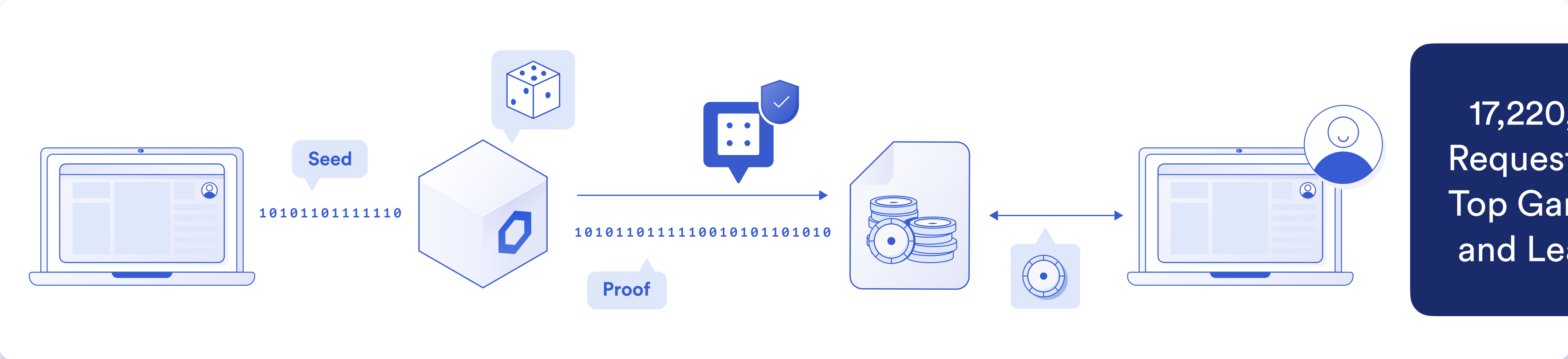
17,220,000+ VRF Requests Served to Top Gaming Dapps and Leading NFTs

Seed
10101101111110

Proof
10101101111100101011010

... AND HUNDREDS MORE

Chainlink

Chainlink Automation and Functions are Key Off-Chain Compute

Smart Contract
Development Team

Chainlink Automation
and Functions Networks

Smart Contract
Application

One
Upkeep
Request

1001011001001001110
0110010110010010010110
0110010110010010010110
0010110010010010010110

1000s of Ongoing DevOps,
and Off-Chain Compute
Tasks and Transactions

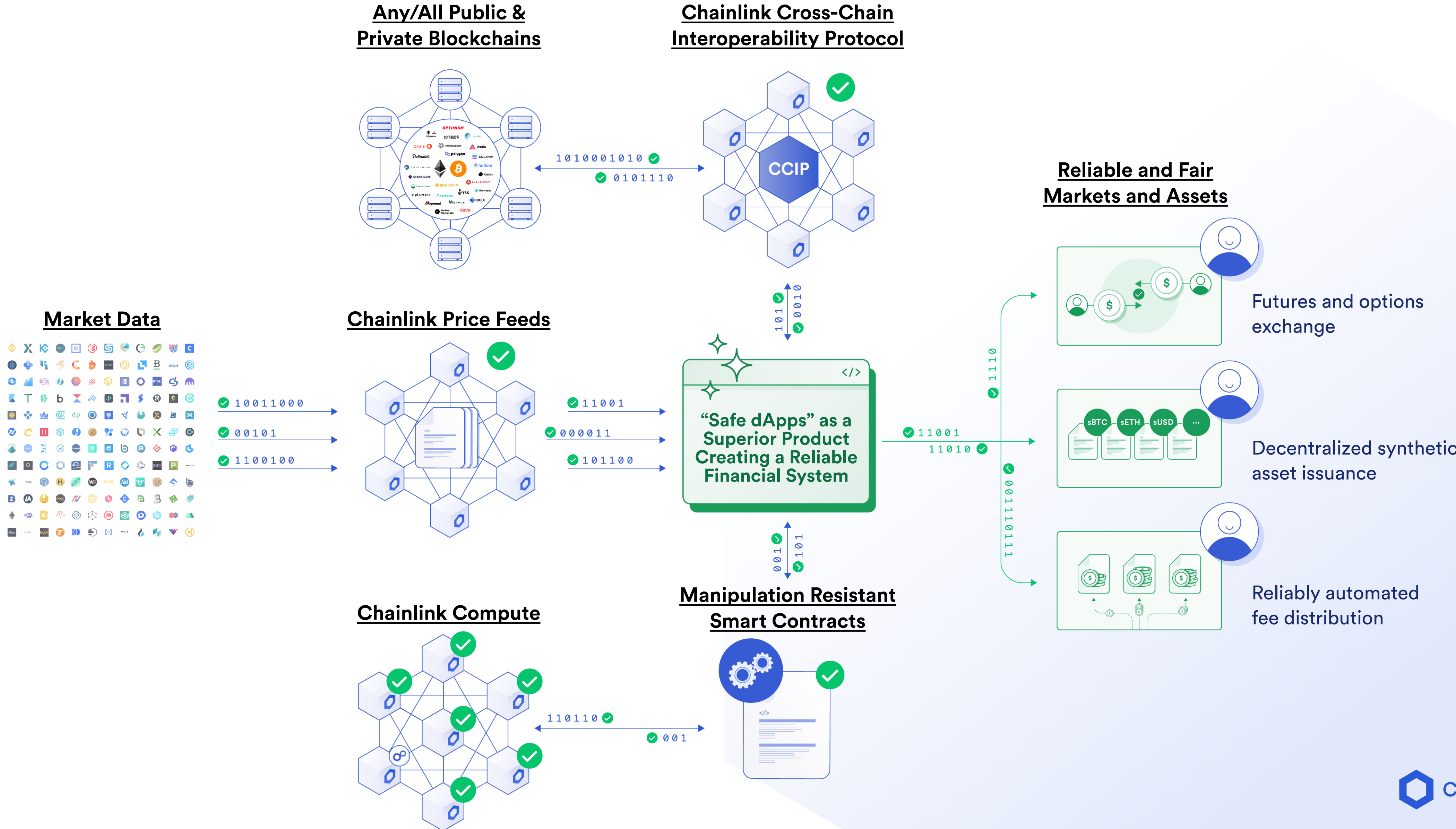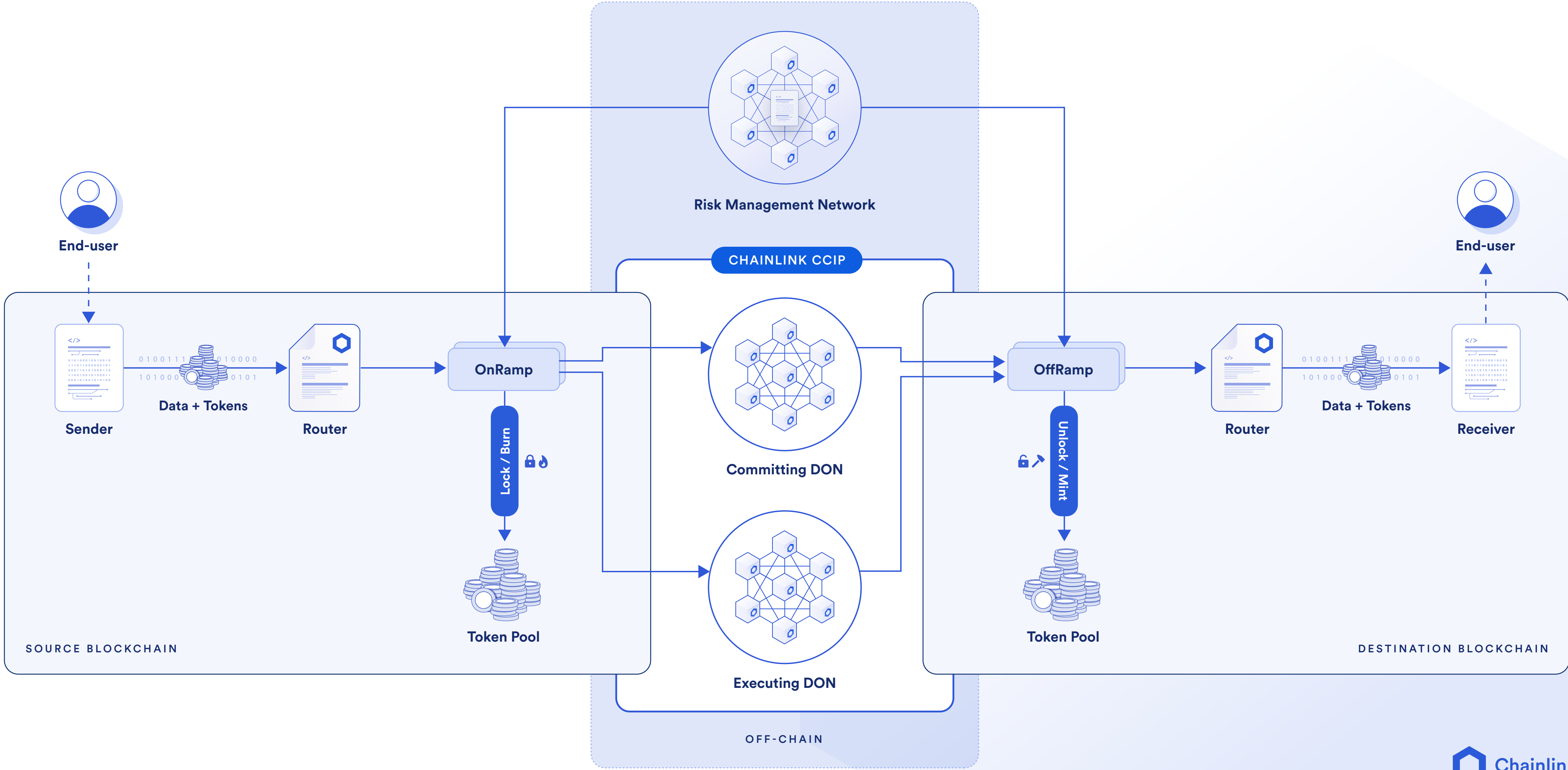|						
MAKER	AAVE	SYNTHETIX	GMX	Balancer	PancakeSwap	Alpaca Finance
ApeSwap	TRANCHESS	Sushi	oku	Sommelier	STAKE DAO	Dolomite
Badger	ao	SPHYNX TOKEN	PLANET IX	CoTrader	Civilization	PICKLE FINANCE
oki	VISOR	ICHI	coti	cask	WigoSwap	BendDAO
	DODO	MUSHROOM	PROSPER	ORIGIN	GRAVITY	finance.vote

coindesk

Tech   Feb 9, 2023

DeFi Giant MakerDAO Integrates Blockchain Data Provider Chainlink for DAI Stablecoin

Chainlink Automation will run specific tasks, including price updates and liquidity balancing, to help maintain the stability of Maker's $5 billion DAI stablecoin.

Chainlink

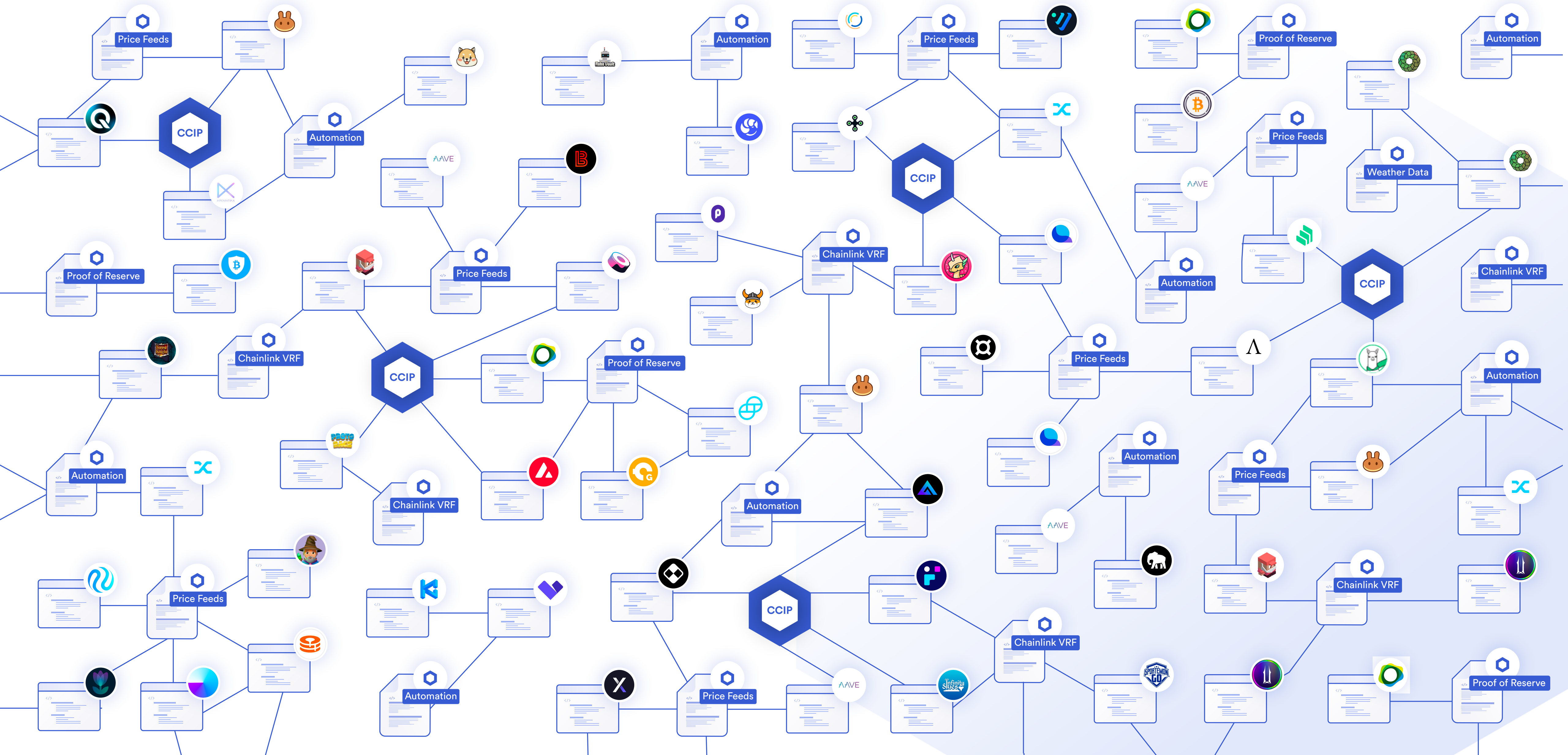# "Safe dApps" Deliver the True Value of Smart Contracts and DeFi

Any/All Public & Private Blockchains

Chainlink Cross-Chain Interoperability Protocol

CCIP

1010001010
0101110

Reliable and Fair Markets and Assets

Market Data

Chainlink Price Feeds

10011000
00101
1100100

11001
000011
101100

101 0010

1110

"Safe dApps" as a Superior Product Creating a Reliable Financial System

11001
11010

0011101111

Futures and options exchange

sBTC sETH sUSD ...

Decentralized synthetic asset issuance

Reliably automated fee distribution

Chainlink Compute

001 101

Manipulation Resistant Smart Contracts

110110
001

Chainlink

CCIP Introduces Greater Security and Active Risk Management to Cross-Chain

Risk Management Network

CHAINLINK CCIP

End-user

End-user

SOURCE BLOCKCHAIN

Sender

Data + Tokens

Router

OnRamp

Lock / Burn

Token Pool

Committing DON

Executing DON

OFF-CHAIN

OffRamp

Unlock / Mint

Token Pool

Router

Data + Tokens

Receiver

DESTINATION BLOCKCHAIN

Chainlink

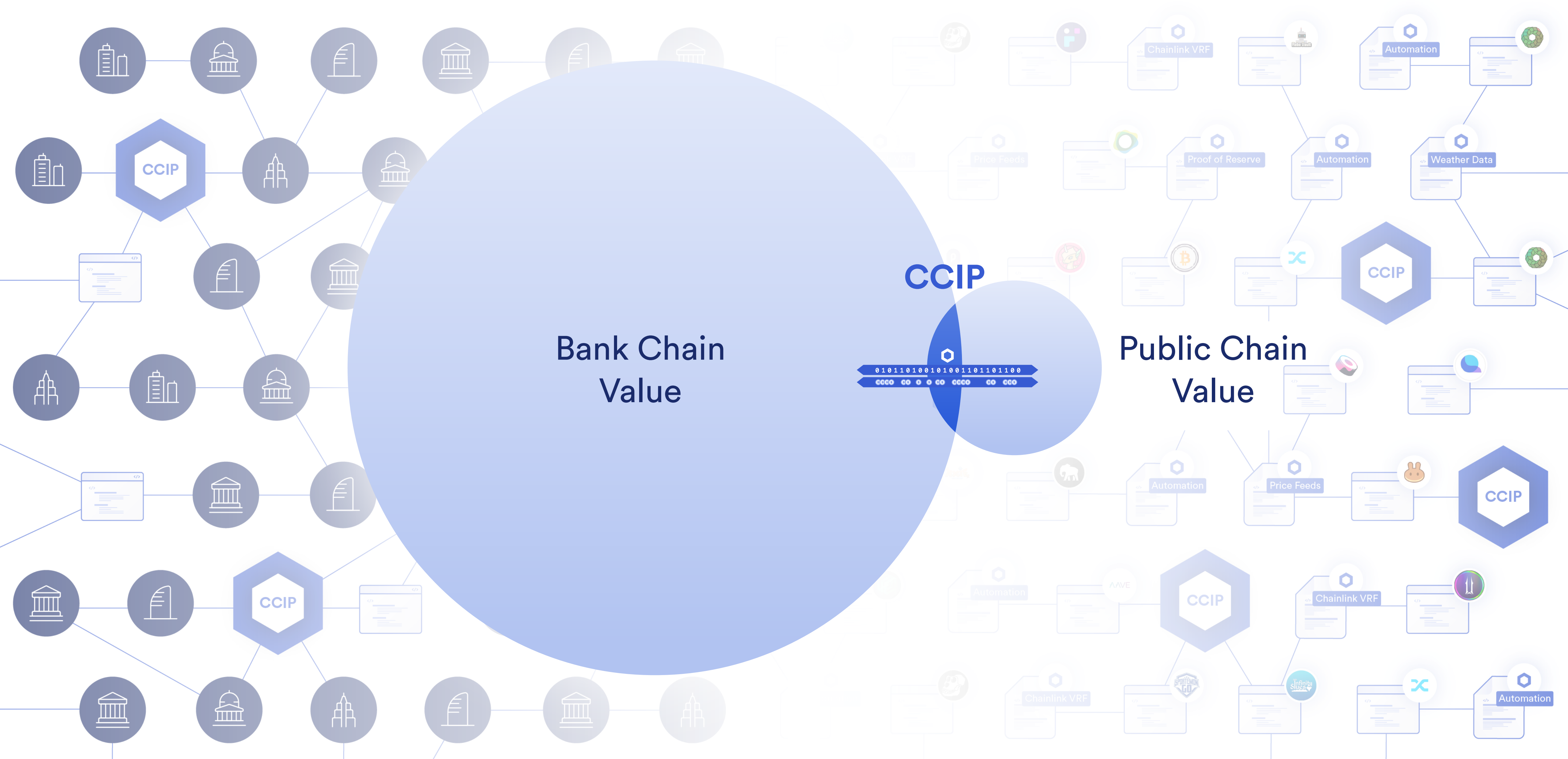A Secure and Reliable Internet of Contracts Across Public and Private Chains

Working on Interbank Transactions Across Regional Counterparties using CCIP
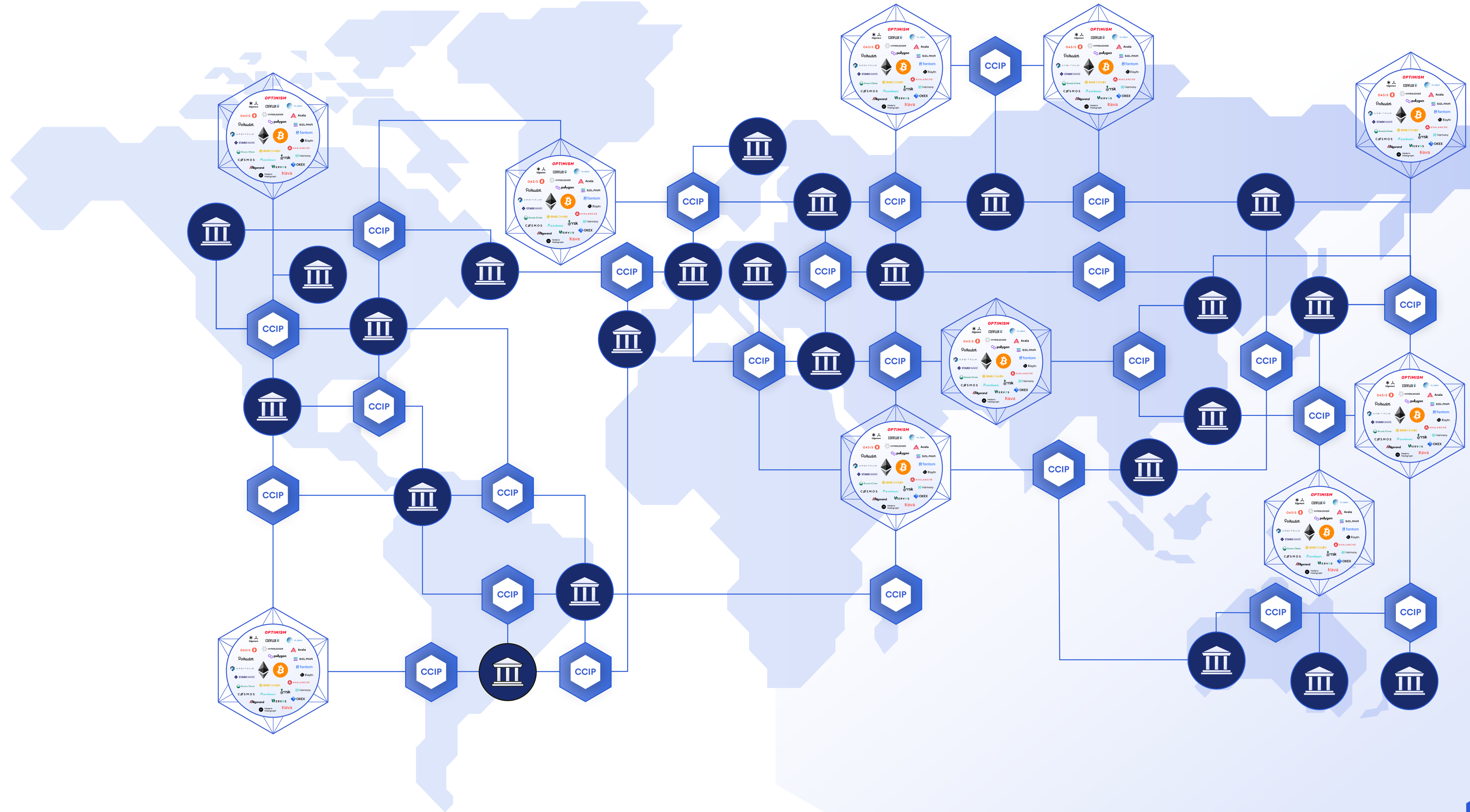
Efficiently Connecting Banks to Blockchains via Existing Banking Standards
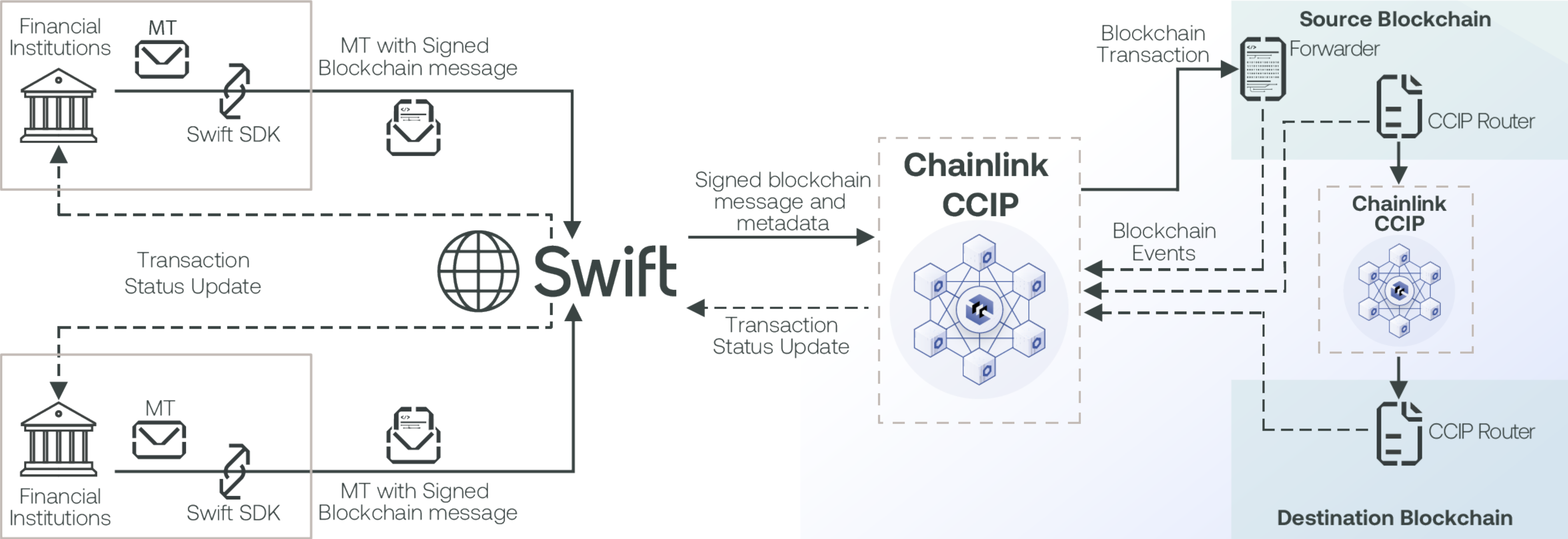
Two Separate Internets of Contracts Will Initially Exist: DeFi and Bank Chains

Bank Chain Value

CCIP

Public Chain Value

CCIP is Built to Create Global Connectivity Across Banks and DeFi/Public Chains

Chainlink

Turning the Global Financial System Into a Reliable On-Chain Financial System

Bank Chain Value

CCIP

Public Chain Value

0 1 0 1 1 0 1 0 0 1 0 1 0 0 1 1 0 1 1 0 1 1 0 0

Chainlink Developer Platform/Metalayer

Cryptographically Provable Data

Market Data Oracle Networks

Proof of Reserve Oracle Networks

Identity and Other Data Oracle Networks

Cryptographically Trust-Minimized Compute

Verifiable Randomness Function (VRF)

Automation Oracle Networks

Functions Oracle Networks

Cross-Chain Value

CCIP: Cross-Chain Interoperability Protocol

Decentralized Oracle Networks

T··Systems | swisscom | coinbase | Staked | SIMPLY VC | LinkPool

NO.DE | LinkRiver | Stakin | VALIDATION Capital | Stake Systems | Mycelium Node

ZTAKE | Fiews.io | BLOCKSIZE CAPITAL | ChainLayer

kyber network | Harvest | Prophet

+ hundreds more

DeFi Contracts

CeFi Applications

Real-World Asset Proofs and Wrapped Assets

CGT | WBTC | BTCB | eFIL

AAVE | GEMINI | CACHE | Ava Labs. | PAXOS

BitGo | archblock | Swingby | CODREST

New Hybrid Smart Contracts

THALES | SOLVE CARE

Web3 Contracts

Web2 Applications

DOLCE & GABBANA

AO | bmm

aws | Lemonade

DeFi Contracts

CeFi Applications

New Trust-Minimized Applications

Cross-Chain Smart Contracts

OP

+ hundreds more
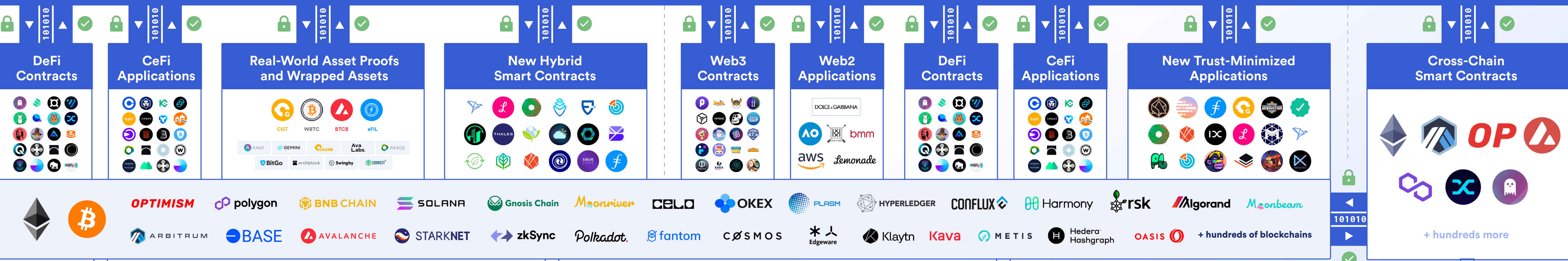
ETHEREUM | Bitcoin | OPTIMISM | polygon | BNB CHAIN | SOLANA | Gnosis Chain | Moonriver | CELO | OKEX | PLASM | HYPERLEDGER | CONFLUX | Harmony | rsk | Algorand | Moonbeam

ARBITRUM | BASE | AVALANCHE | STARKNET | zkSync | Polkadot | fantom | COSMOS | Edgeware | Klaytn | Kava | METIS | Hedera Hashgraph | OASIS

+ hundreds of blockchains

CROSS-CHAIN INTEROPERABILITY PROTOCOL

CROSS-CHAIN INTEROPERABILITY PROTOCOL

CROSS-CHAIN INTEROPERABILITY PROTOCOL

Global Banks

Asset Managers

Clearing & Settlement Depositories

Central Bank Digital Currencies

Thank You

Chainlink