



SmartCon 2023

Manipulated Systems vs User Controlled Systems

+

Unverifiable Misinformation vs Verifiable Cryptographic Truth

=

Reactive “Fixes” vs Proactive Decisions

The Verifiable Web Offers Three Key Improvements

Know what you're getting into because you can **proactively verify** everything about a system before entering into it, knowing it can't change.

Know what is going on by utilizing **verifiable cryptographic truth** to avoid misinformation and know what is actually going on in the system you're in.

Proactively decide on whether you should leave the system, because it's a **user controlled system** that clearly defines how you can leave the system.

Manipulation of Financial Products and Entire Markets Affects All of Us



User + Front End

User + Front End

User + Front End

Bank Back End

\$63.4 Billion

VALUE IN BANKRUPTCY

Bank Back End

\$619 Billion

VALUE IN BANKRUPTCY

Bank Back End

\$209 Billion

VALUE IN BANKRUPTCY

User Controlled Frontends

User Controlled Frontends

User Controlled Frontends

Verifiable Apps on
Blockchains &
Oracle Networks

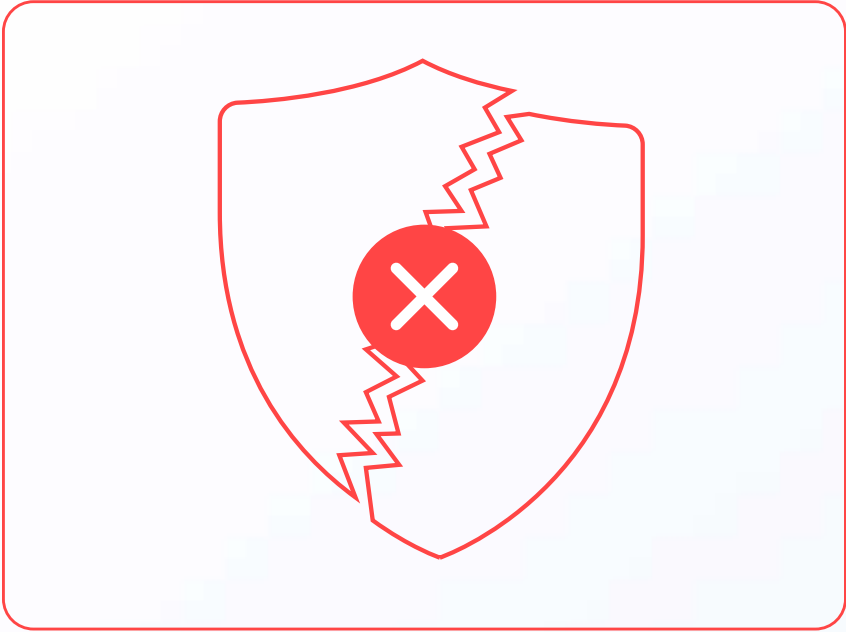
Verifiable Apps on
Blockchains &
Oracle Networks



Better Alternatives for Developing Economies



No Bank Account



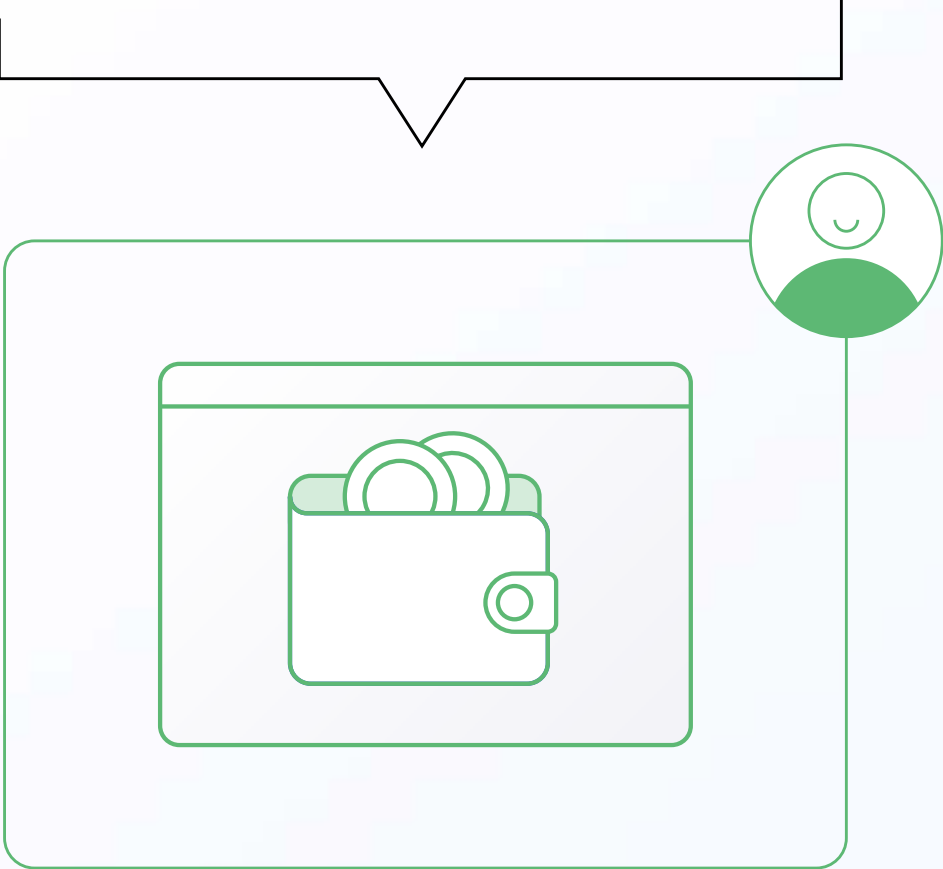
No Insurance for Risk Management



No Global Supply Chain Access to Sell Globally



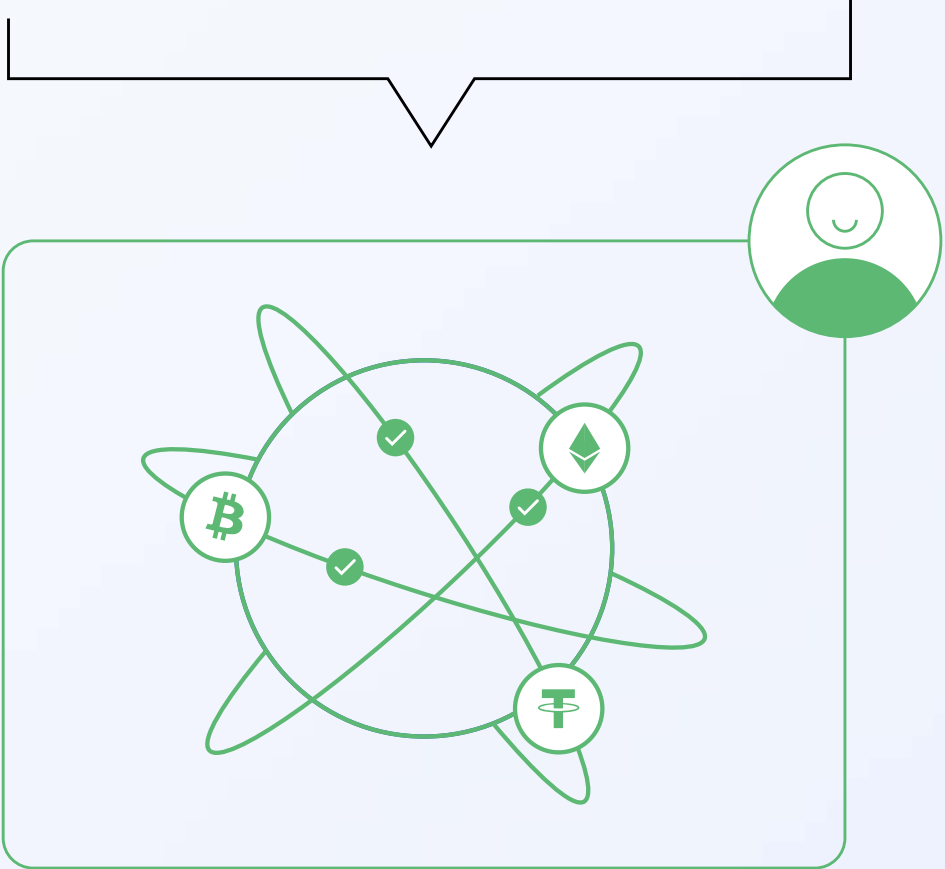
Limited Direct Investment



Coin Bank Account



Smart Contract Insurance For Risk Management



Global Supply Chain Access to Sell Globally

Direct Investment Possible Due to Smart Contracts

Distrust of News and All Information by the Public is at An All Time High



2023 Digital News Report Jun. 14, 2023

“Across markets, **well over half (56%)** say they worry about identifying the difference **between what is real and fake on the internet when it comes to news** – up 2 percentage points on last year. Much of the public is **skeptical of the algorithms used to select what they see via search engines, social media, and other platforms.**”

FORTUNE

Politics Feb. 15, 2023

Trust in media is so low that half of Americans now believe that news organizations deliberately mislead them

“52% disagreed with a statement that disseminators of national news “care about the best interests of their readers, viewers and listeners,” the study found. It said **23% of respondents believed the journalists were acting in the public’s best interests.**”



Trust slumps in government and media as division rules, Edelman survey shows



Cryptographic Truth Creates a Verifiable Web



Mythical into Religious
Truth



Measurable into Scientific
Truth



Printed into Digital
Truth



Computational into Cryptographic
Truth

10.3+ Billion

Cryptographic Truth Data Points Delivered On-Chain



Business Feb 17, 2022

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

Chainlink's 100% on-chain
significant adoption has been a
driver of DeFi's growth, with
total value locked (TVL) growing

JUL 2021

JAN 2022

JUL 2022

JAN 2023

JUL 2023

0

2B

4B

6B

8B

10B

DATA POINTS SERVED TO BLOCKCHAINS BY CHAINLINK ORACLES



TRANSACTION VALUE ENABLED (TVE)

\$8.68+ Trillion

Cumulative Total Starting in 2022

AAVE

flexa

LOOPRING

GMX

Lyra

Silo

Compound

Alpaca Finance

PancakeSwap

poundtoken.io

QTHALES

Beefy

PAXOS

BENQI

Trader Joe

PICKLE FINANCE

Dfyn

Liquity

LIDO

ALPHA

pool together

opyn

CRYPTEX

kyber network

ALCHEMIX

Frax

Set

Mycelium

+ HUNDREDS MORE

SYNTHETIX

Nexus Mutual

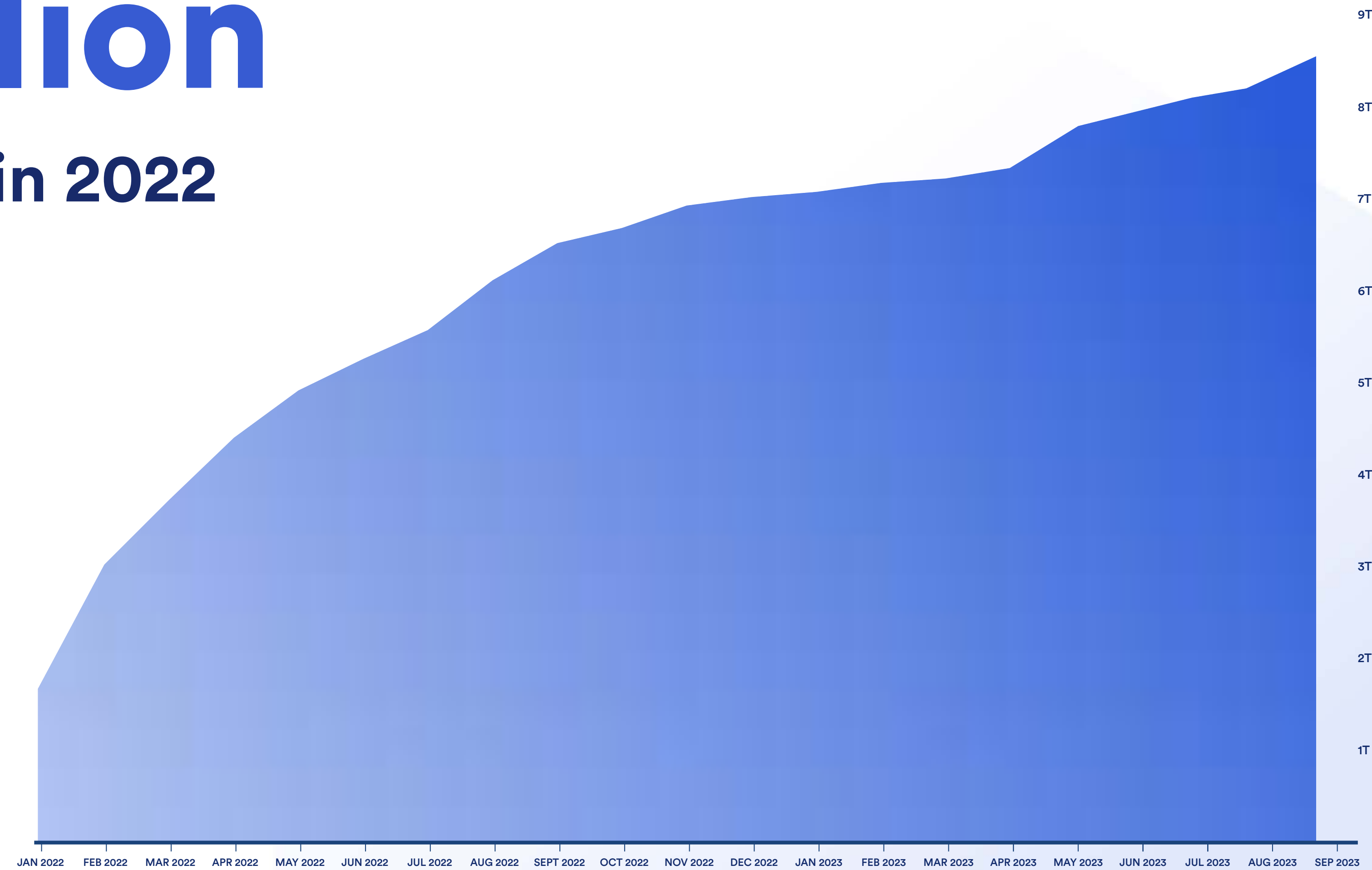
BARNBRIDGE

copium.finance

Index

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 starting in 2022 on Avalanche, BNB Chain, Ethereum, Fantom, Gnosis, Heco, Optimism, and Polygon.



Chainlink Developer Platform/Metalayer



Cryptographically Provable Data

Market Data
Oracle Networks

Proof of Reserves
Oracle Networks

Identity and Other
Data Oracle Networks

Decentralized Oracle Networks

+ hundreds more

DeFi
Contracts

DeFi
Applications

Real World Asset Pools
and Wrapped Assets

New Hybrid
Smart Contracts

CROSS-CHAIN INTEROPERABILITY PROTOCOL

Global
Banks

Asset
Managers

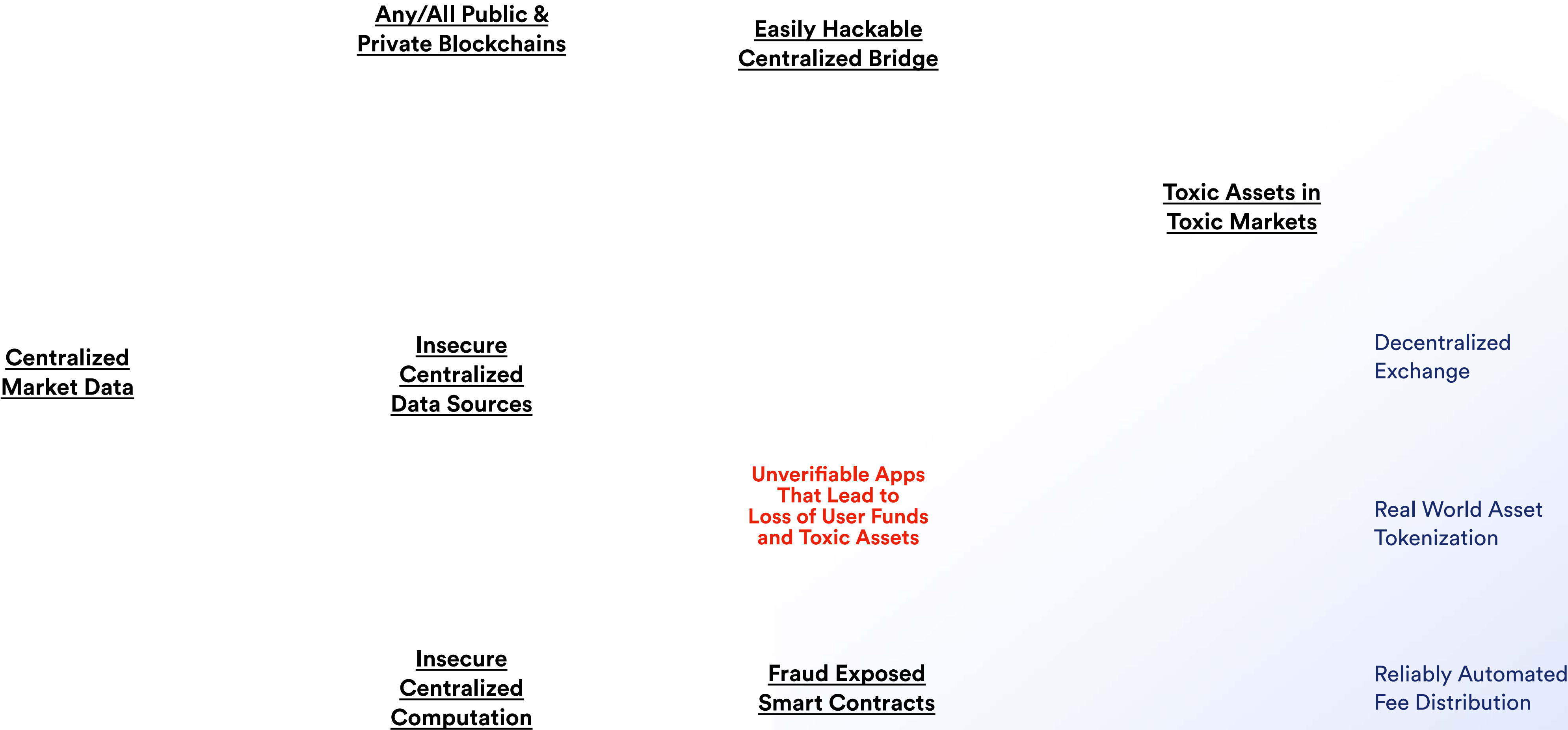
Clearing & Settlement
Depositories

Central Bank
Digital Currencies

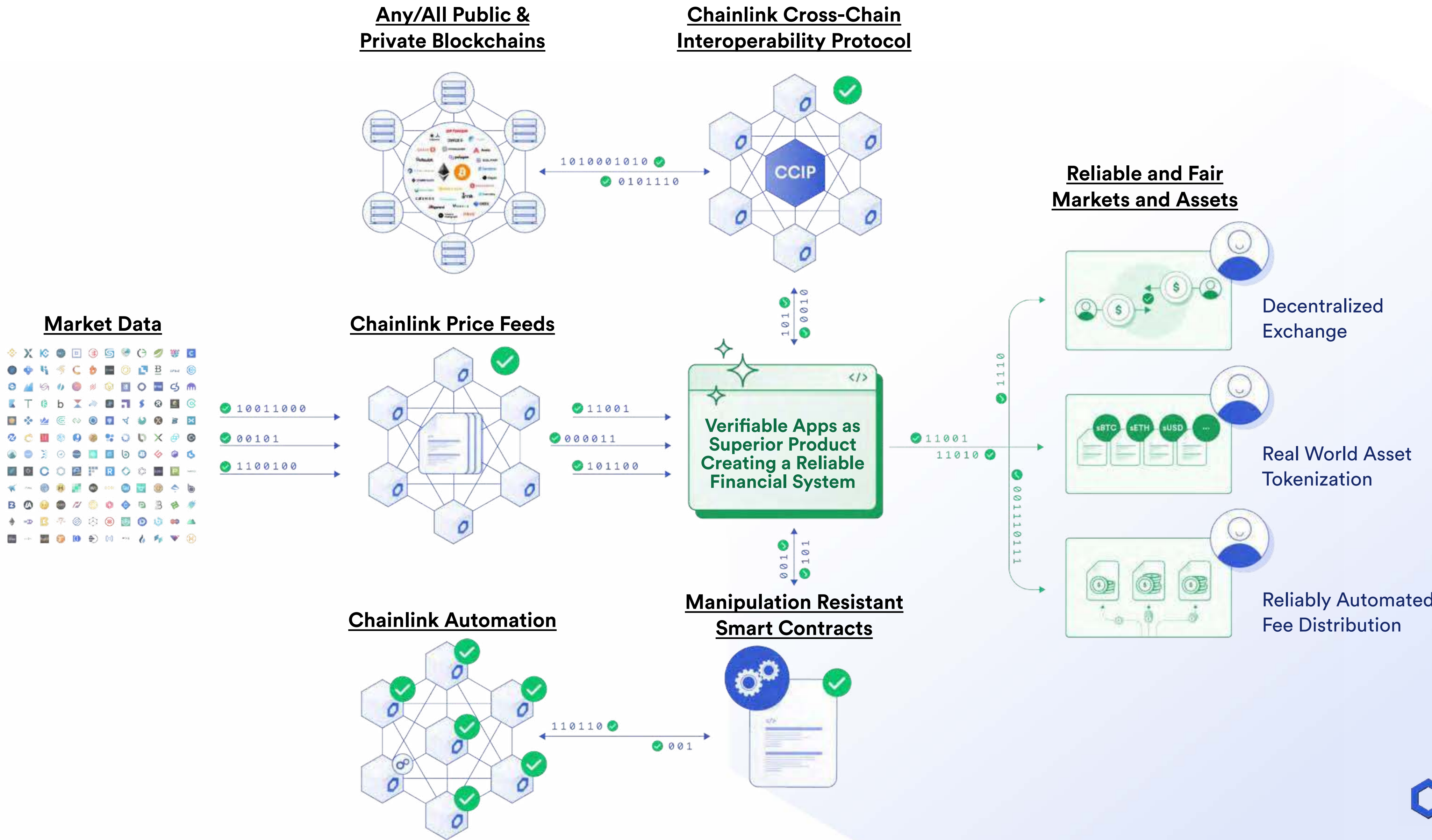


Chainlink

Unverifiable Applications create Manipulated Markets that Users Will Avoid



Verifiable Applications Deliver the True Value of Smart Contracts and DeFi





Chainlink Functions Beta Live on Mainnet



Functions Combines Any API With Any Offchain Computation





Chainlink Developer Platform/Metalayer



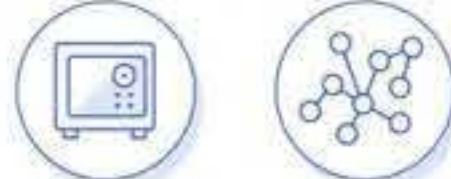
Cryptographically Provable Data

Cryptographically Trust-Minimized Compute

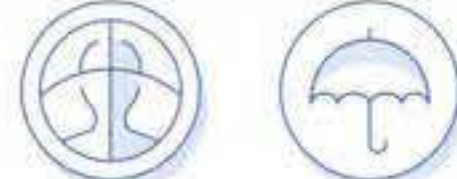
Market Data Oracle Networks



Proof of Reserve Oracle Networks



Identity and Other Data Oracle Networks



Verifiable Randomness Function (VRF)



Automation Oracle Networks



Functions Oracle Networks



Decentralized Oracle Networks



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 INTEROPERABILITY PROTOCOL

CROSS-CHAIN INTEROPERABILITY PROTOCOL

CROSS-CHAIN INTEROPERABILITY PROTOCOL



Global
Banks



Asset
Managers



Clearing & Settlement
Depositories

CCIP Introduces Risk Management and Greater Decentralization to Cross-Chain

A Secure and Reliable Internet of Contracts Will Underpin the Verifiable Web



CCIP Creates the Internet of Contracts and Liquidity Layer

- Create the **most secure cross-chain** value transfer and communications standard.
 - Allow Smart Contracts, Web3 Wallets and Web2 Backends to easily use any blockchain and every onchain smart contract **without integrating** onto any chains.
 - Connect existing bank backends to the standard so their value can join the network, creating the **world's largest global liquidity layer** for all onchain assets to interact with global finance.
- 
- All public chain DeFi connected over CCIP
 - All Private chain Bank contracts connected on CCIP
 - All public chains and private chains connected into one **Global Internet of Contracts and Largest Liquidity Layer**

Capital Markets Need a Connectivity and Interoperability Layer

All Existing Bank Infrastructure

Chainlink’s CCIP Abstraction Layer

Public & Private Chains

Workflow and User Interfaces

Backend Systems and Services

Messaging and APIs

Adapter

Event Input
Data Input
Secure Formatting

Secure Key Management

Data Validation and Consensus

Trust-Minimized Off-Chain Computation

Trust-Minimized Hardware

Permissions and Controls

Adapter

Event Input
Data Input
Secure Formatting

Adapter

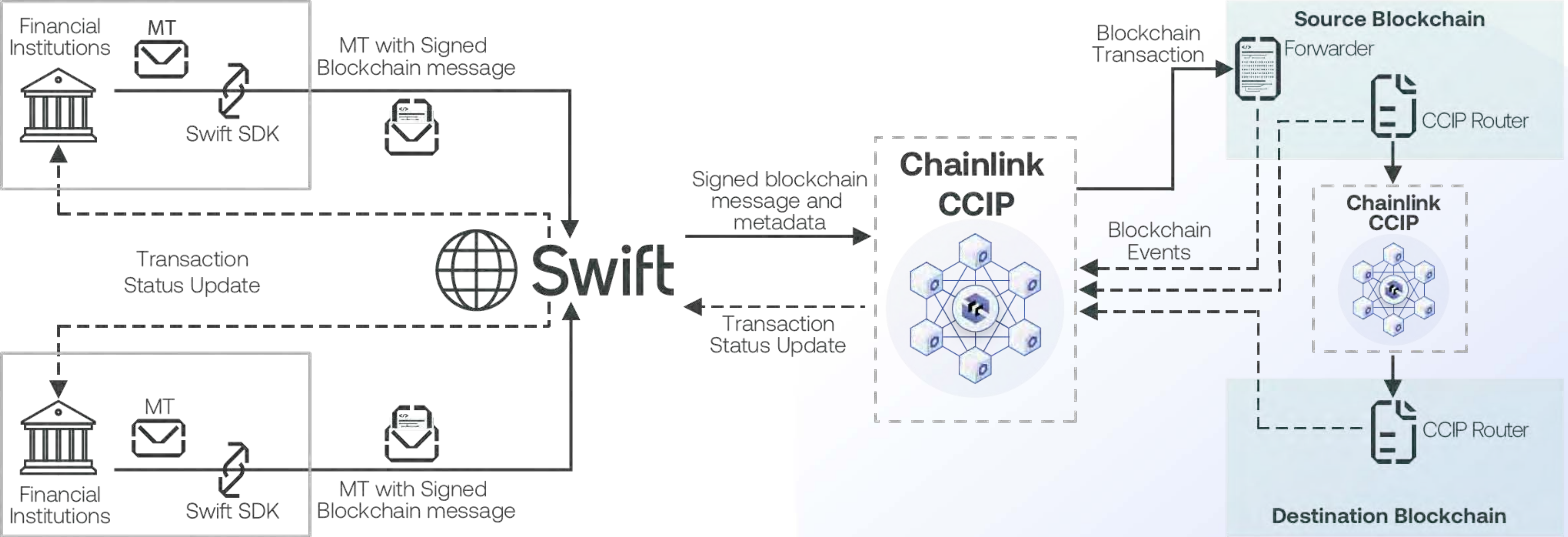
Event Input
Data Input
Secure Formatting

CCIP

CCIP

CBDCs

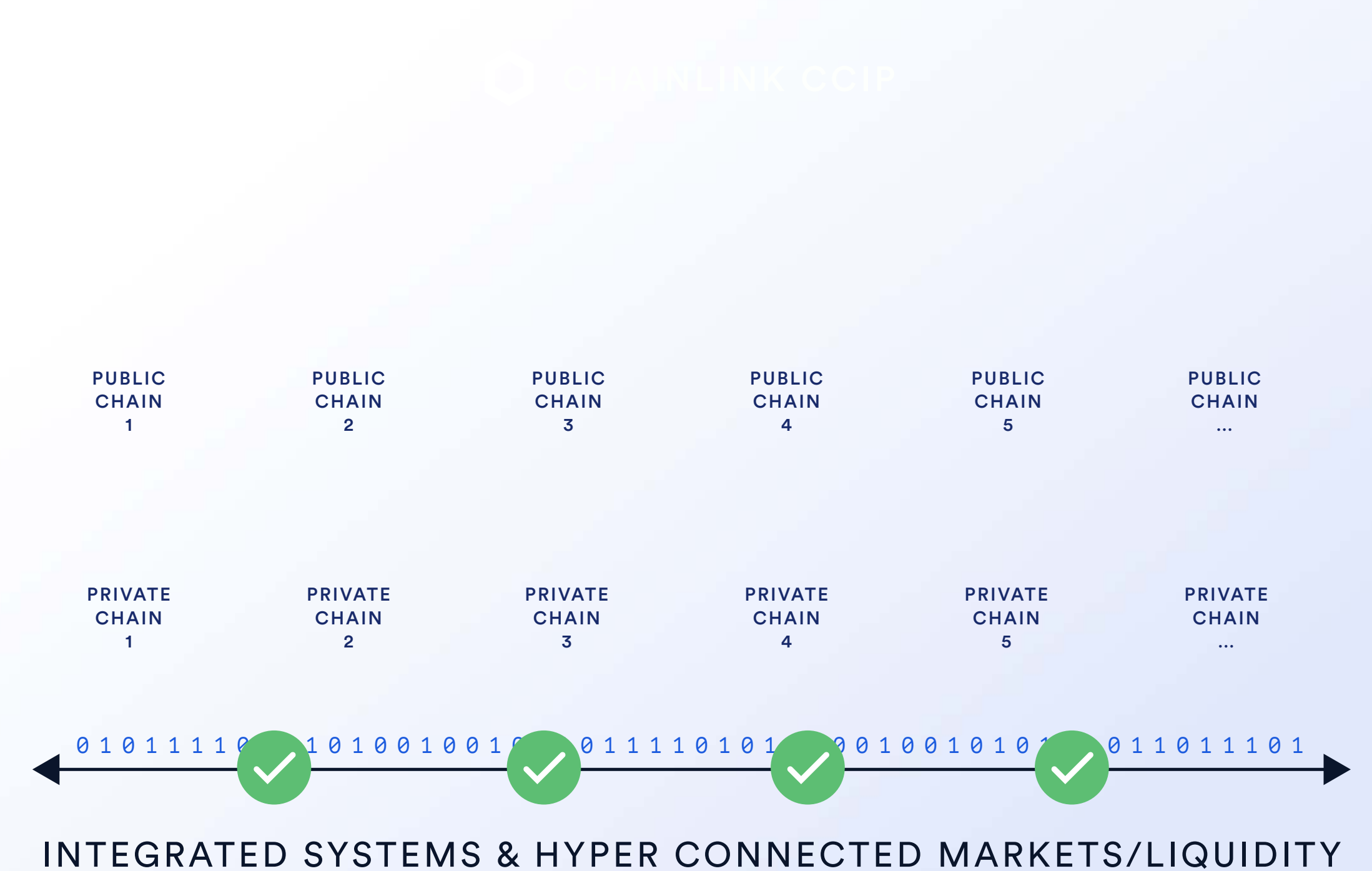
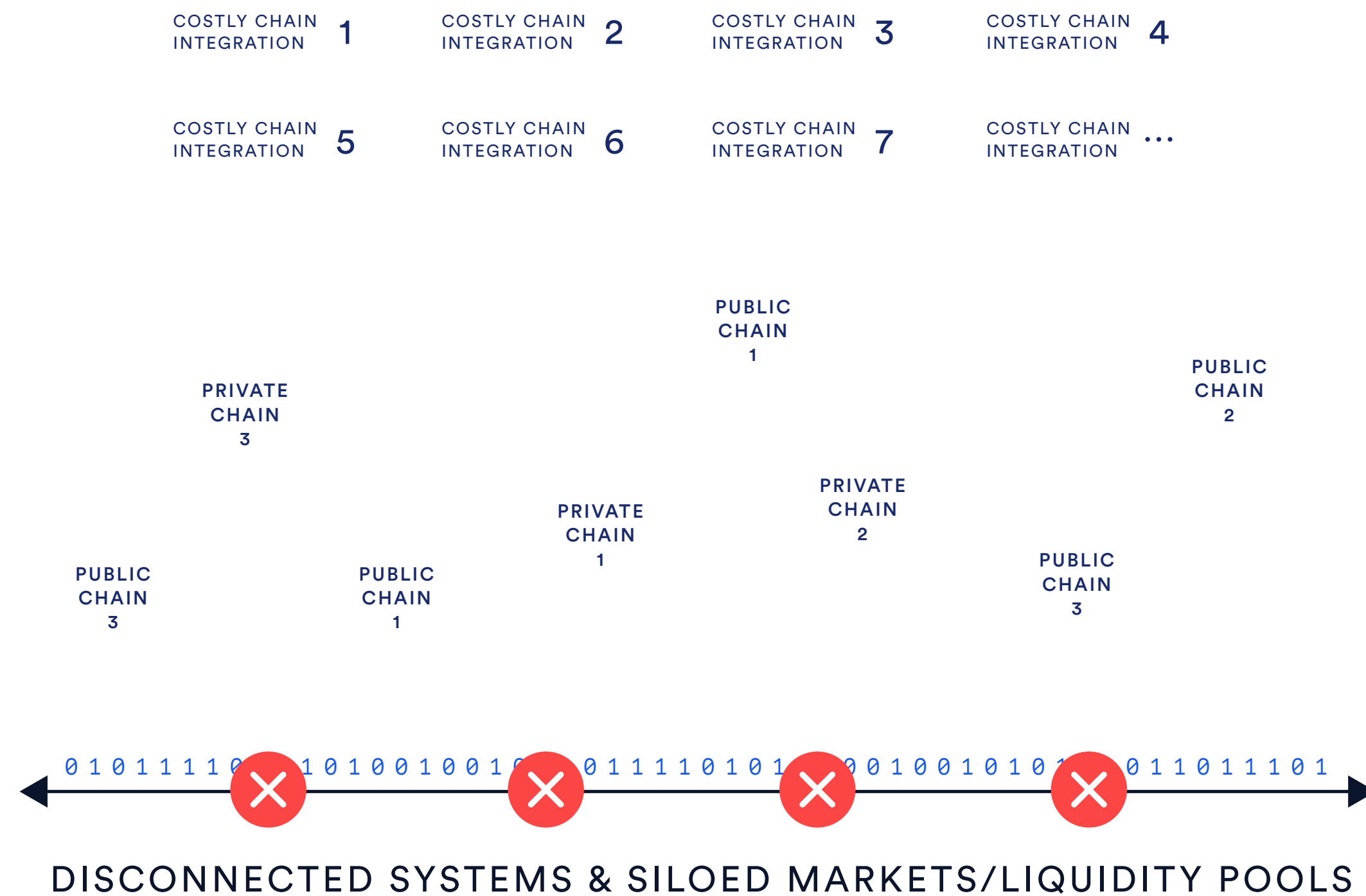
Efficiently Connecting Banks to Chains Utilizing Existing Banking Standards



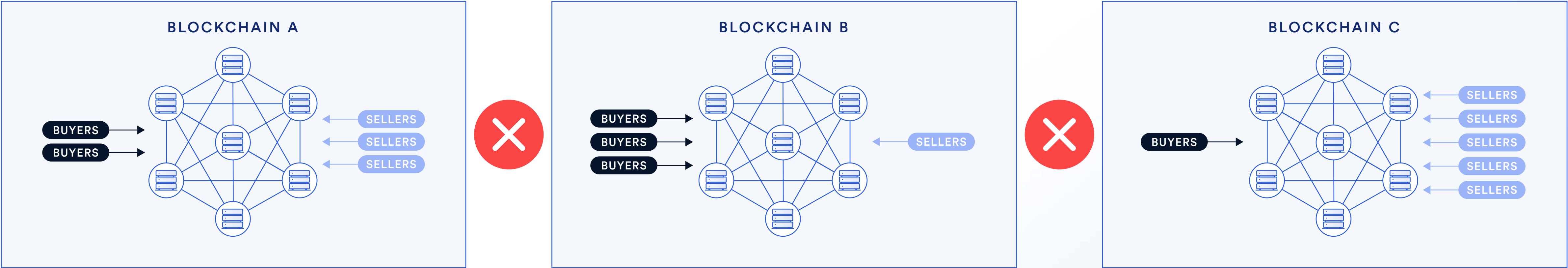
Efficiently Connecting Banks to Blockchains via Existing Banking Standards

1000s of Costly Integrations into 1000s of Chains

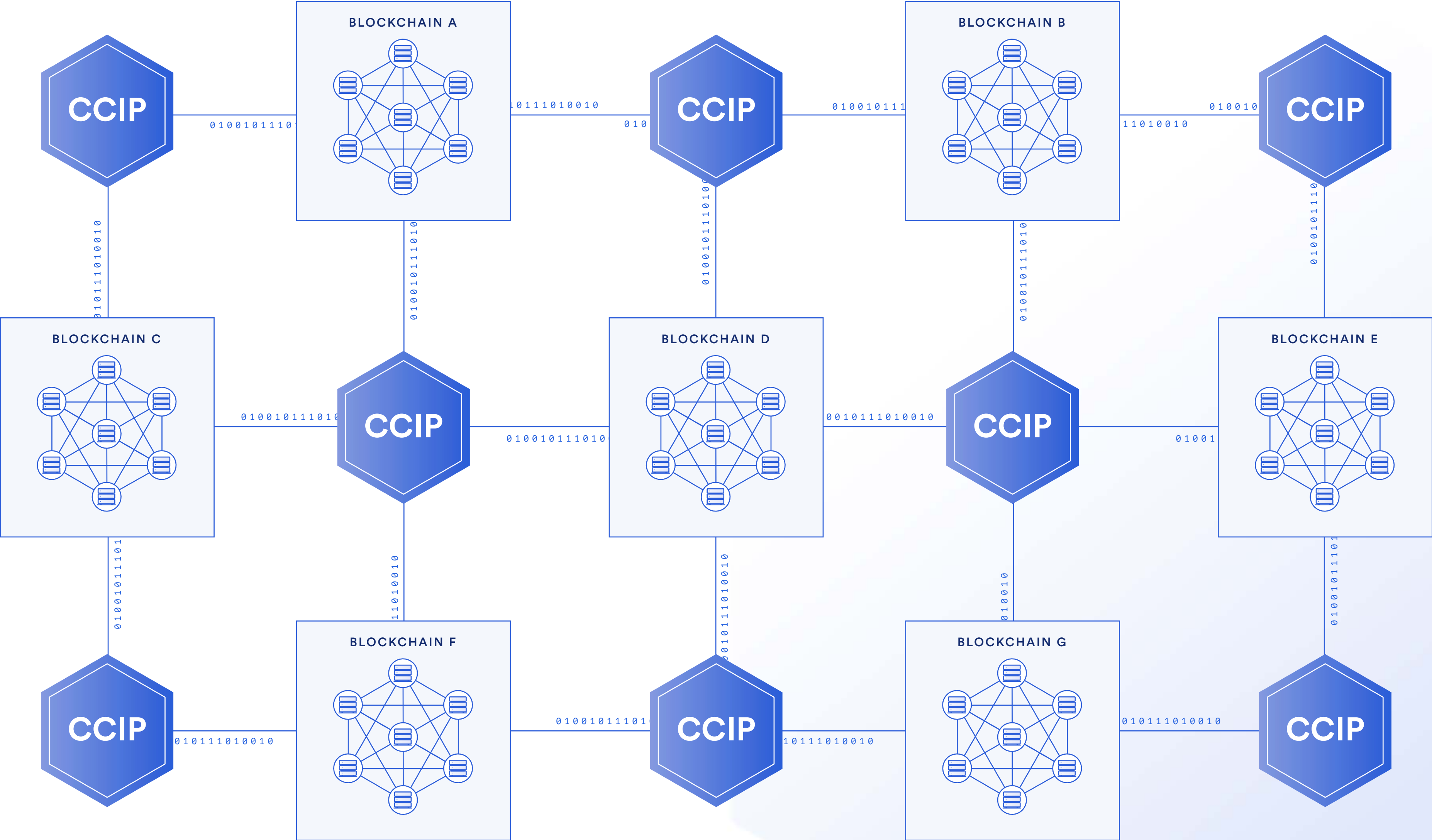
1 Integration Connects to 1000s of Chains



Without Cross-Chain, Bank Chains Can't Access Markets/Liquidity



Connecting All Onchain Markets and Liquidity with One Open Standard



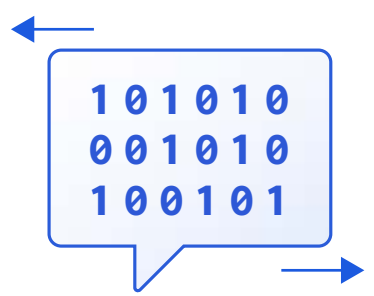
Tokens + Messages Enables Easy Usage of Other Chains' Smart Contracts



AVAILABLE FEATURES

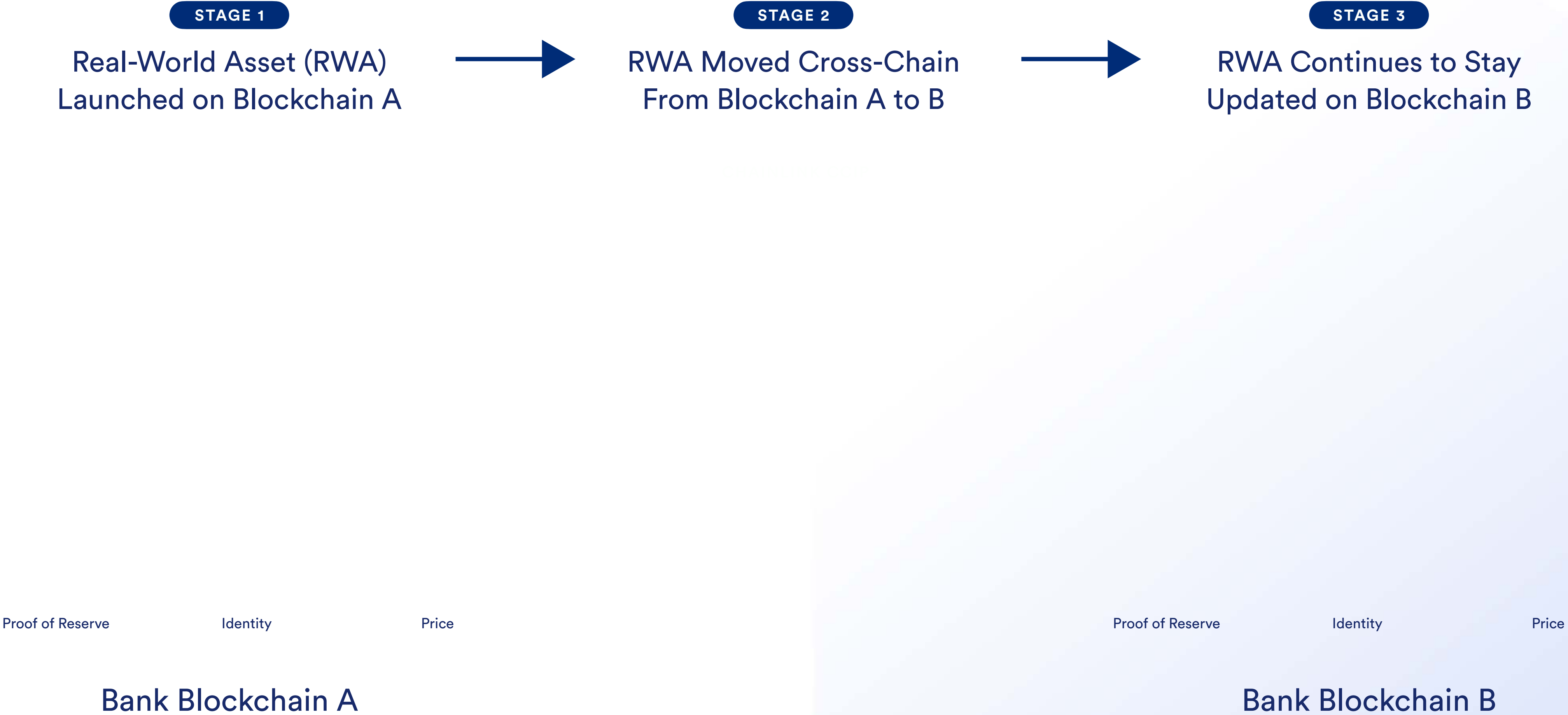
Enable Token/Value Movement

Send Messages



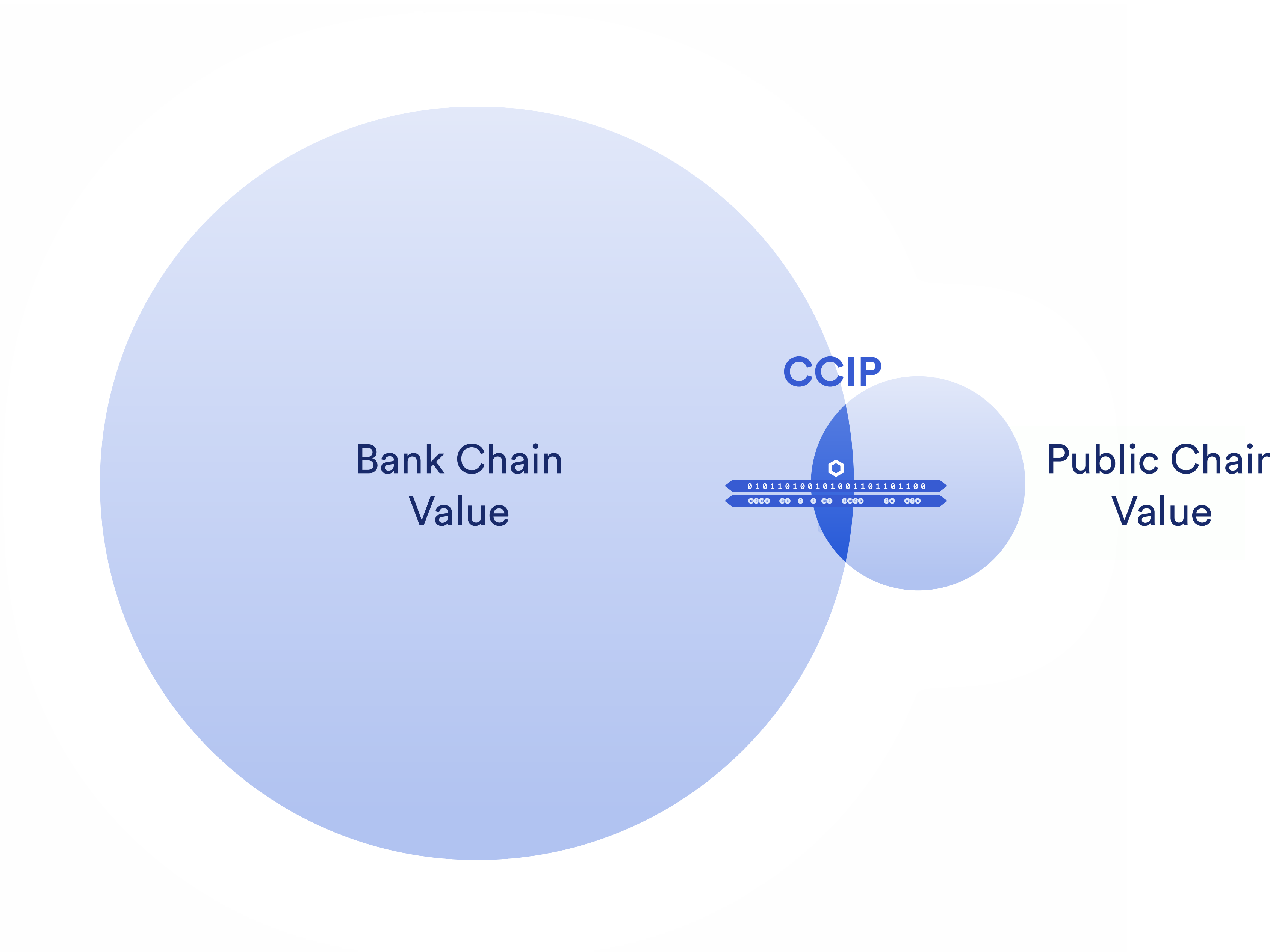
Move Value + Message Combined

Real-World Asset Tokenization Needs Cross-Chain and A Fully Updated State



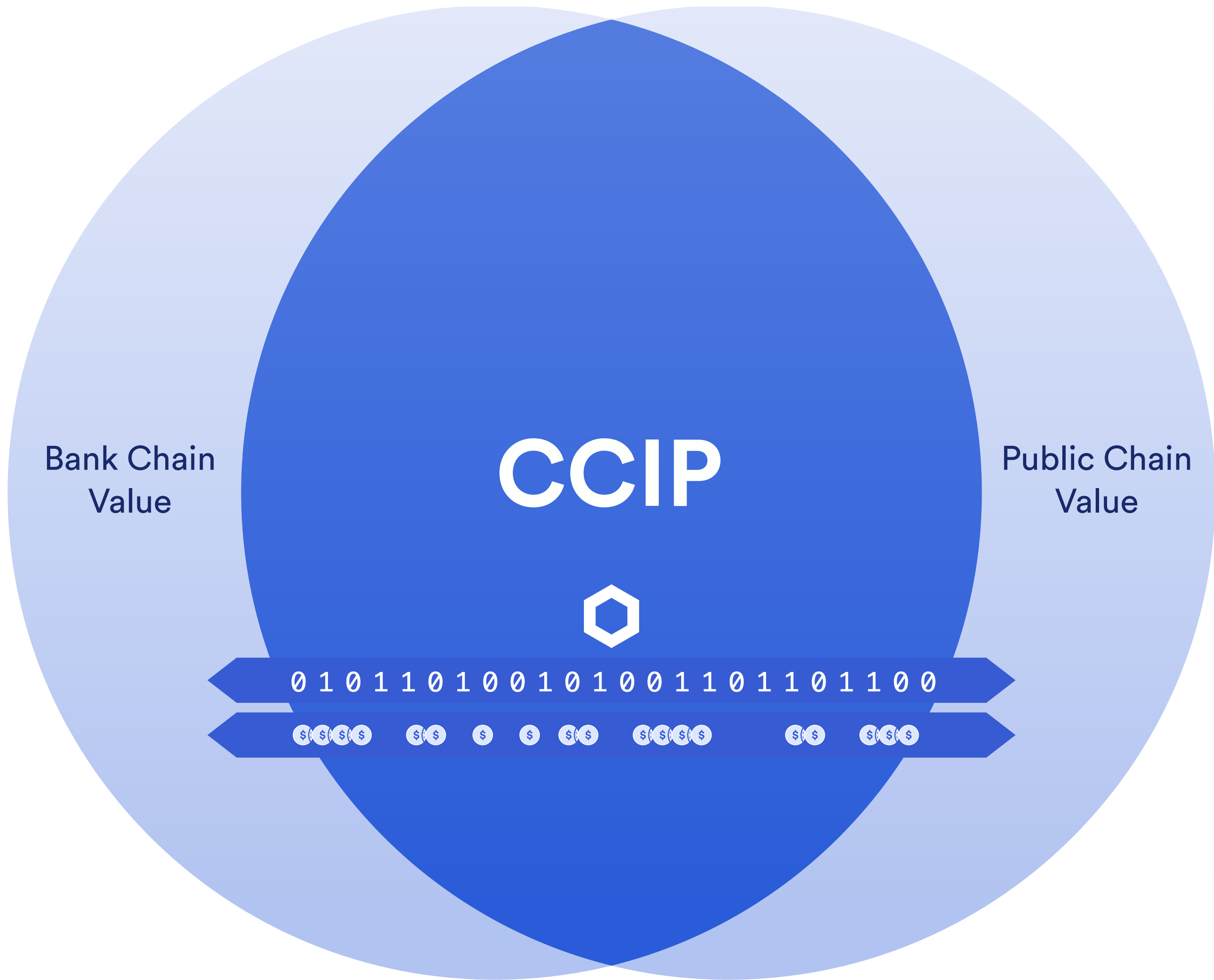
Creating Interbank Transactions Focused on Regional Counterparties using CCIP

Two Separate Internets of Contracts Will Initially Exist: DeFi and Bank Chains



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

Turning the Global Financial System Into a Reliable Onchain Financial System





Chainlink Developer Platform/Metalayer



Cryptographically Provable Data

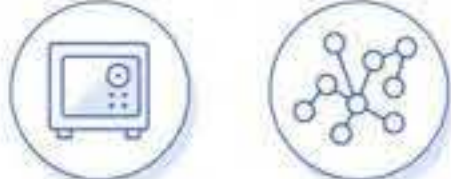
Cryptographically Trust-Minimized Compute

Cross-Chain Value

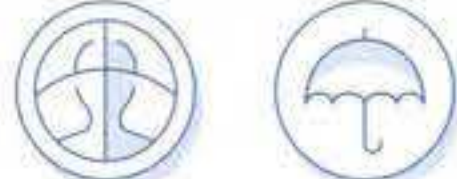
Market Data Oracle Networks



Proof of Reserve Oracle Networks



Identity and Other Data Oracle Networks



Verifiable Randomness Function (VRF)



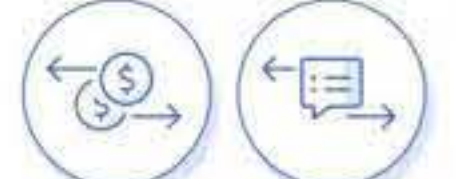
Automation Oracle Networks



Functions Oracle Networks



CCIP: Cross-Chain Interoperability Protocol



Decentralized Oracle Networks



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



CROSS-CHAIN INTEROPERABILITY PROTOCOL

CROSS-CHAIN INTEROPERABILITY PROTOCOL

CROSS-CHAIN INTEROPERABILITY PROTOCOL



Global
Banks



Asset
Managers



Clearing & Settlement
Depositories



Central Bank
Digital Currencies

Payment Abstraction Reduces Payment Friction and Increases Fees Paid

Web3 Dapps

Payment Abstraction

Chainlink Network

Enterprises

Blockchain
Applications

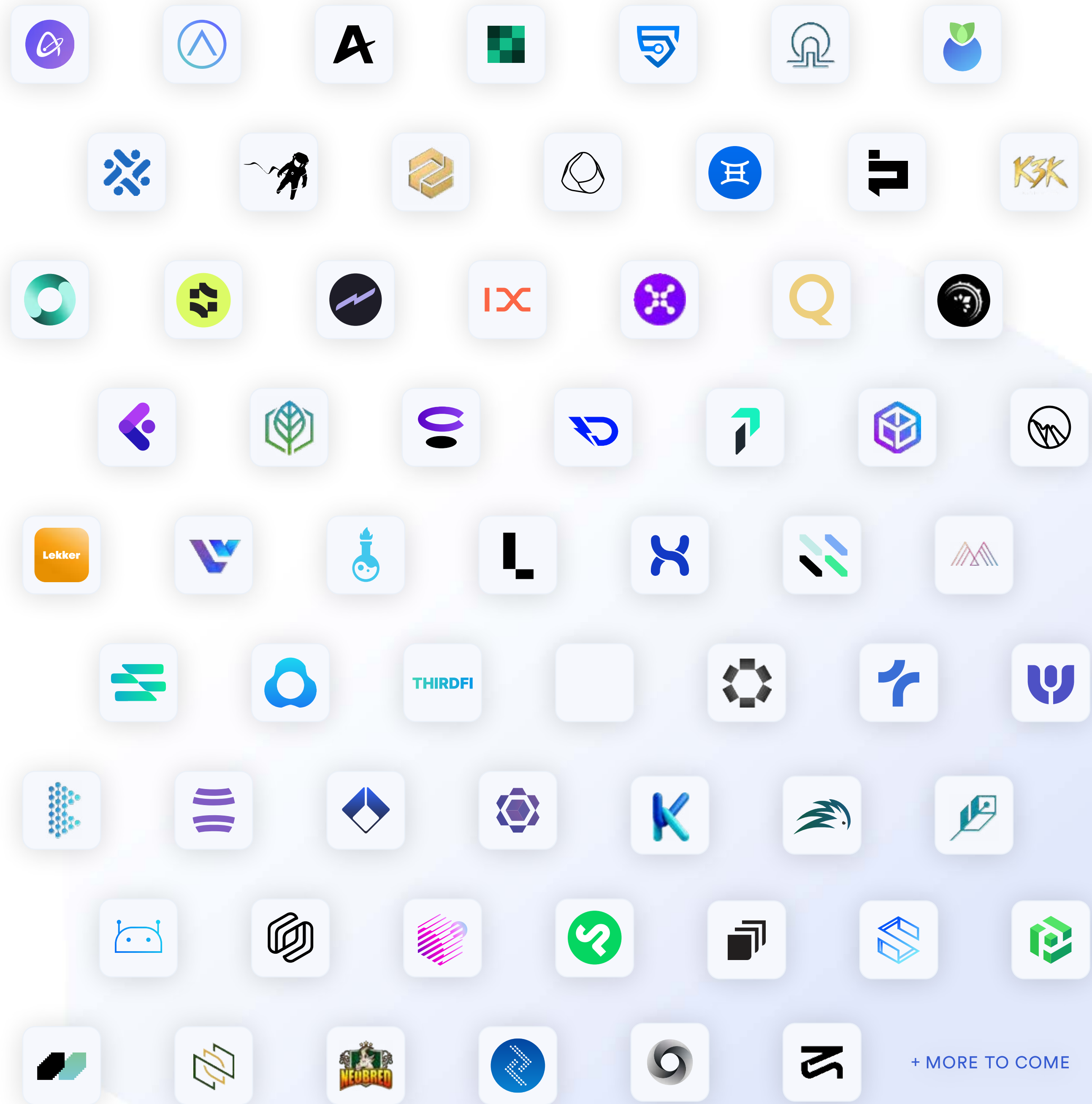
Universal Billing
Contract

- ✓ Reduced Payment Friction
- ✓ Standardized Billing
- ✓ Increased Monetization

 = UNIVERSAL GAS TOKEN



70+ BUILD Projects



+ MORE TO COME

Chainlink's Economy is Growing With More Advanced Payments and Staking





Launching the Early Access Eligibility App For V0.2

ACCESS TODAY

staking.chain.link/eligibility

Global Decentralized Computing Marketplace (DCM) Creating Any DON

Node Operators with
Verifiable Reputation

Decentralized
Computing Market

Decentralized Oracle Networks
Being Purchased by Any App

Verifiable Applications
Across All Use Cases

Verifiable
Bank RWAs &
Digital Assets

Verifiable
Web2
Apps

Verifiable
Web3
Dapps

PAYMENT

DATA
CONNECTION
REQUEST

COMPUTE
& DATA

COMPUTING
CONNECTION
REQUEST

Any and All
Data Sources

Cloud and AI
Computations



Instances

Flows

New Flow

Build

Analytics

Billing

Logs

Settings

Home

Flows

Analytics

Assets

Settings

Help

Notifications

Profile

Build

Default

Ethereum

Bitcoin

+

DON CONFIG

Premium

Node Quality Score: A

7 Nodes

TRIGGER

Automation

Trigger

Time-Based

Every 2 hours

+ Add More Triggers

FETCH

Function

Get Collateral

COMPUTE

CONSENSUS

OUTPUT

CCIP / Write to Chain

Ethereum

Cost Estimate: 0.7 LINK

Assets: 3

Errors: 0

Eth...

0x7...

CODE

OUTPUT

LOG

Export

```
//DON config
console.don.config(){
  don.size = 7;
  don.quality = grade_A;
}

//trigger
console.automate(){
  flow.trigger_type = TIMER;
  flow.frequency = 7200000; //ms
  return flow;
}

//fetch
console.functions.fetch(){
  flow.url = "api.dex.io/prices?srcToken=${srcToken}&destToken=${destToken}&amount=${amount}&network=1";
  flow.callback = (res) => {state.value = res; };
  return flow;
}

//compute

//consensus

//output
console.ccip.write(){
  flow.chain = ethereum;
  flow.address = _dest_addr;
  flow.amount = 0;
  flow.message = state.value;
  return flow;
}
```

Preview

Deploy

Thank You

Disclaimer: This presentation is for informational purposes only and contains statements about the future, including anticipated programs and features, developments, and timelines for the rollout of these programs and features. These statements are only predictions and reflect current beliefs and expectations with respect to future events; they are based on assumptions and are subject to risk, uncertainties, and change at any time. There can be no guarantee that any of the contemplated programs or features will be implemented as specified nor any assurance that actual results will not differ materially from those expressed in these statements, although we believe them to be based on reasonable assumptions. All statements are valid only as of the date first presented. The statements in this presentation also may not reflect future developments due to user feedback or later events and we may not update this presentation in response.