Presented by Ian Salmon,
Dr. Dirk Sturz, and Christopher Glißner.





Sponsored by

Chainlink

An event organized by Finance Yard



EDITH

Co-funded by the European Union

Hosted at and supported by TechQuartier

The Crypto Assets Conference is back for its 10th edition!



Perfect networking opportunities

Covering the latest trends in the industry

Participation on-site or streaming online

Introduction to #CAC24A

4,000+ **Online attendees**	10+ **Panel discussions**	100+ **Speakers**	20+ **Company booths**
450 **On-site attendees**	15+ **Keynotes & presentations**	6+ **Startup pitches**	10+ **Hours of networking**

ORGANIZERS AND SPONSORS

SELECTED SPEAKERS

Join the Crypto Assets Conference 2024
#CAC24A



GM!

Chainlink

Chainlink

The Chainlink Platform

How Chainlink is unlocking the future with Decentralized Oracle Networks

Christopher Glissner
Chainlink Community Advocate

Truth > Trust

Chainlink

What's the PROBLEM?

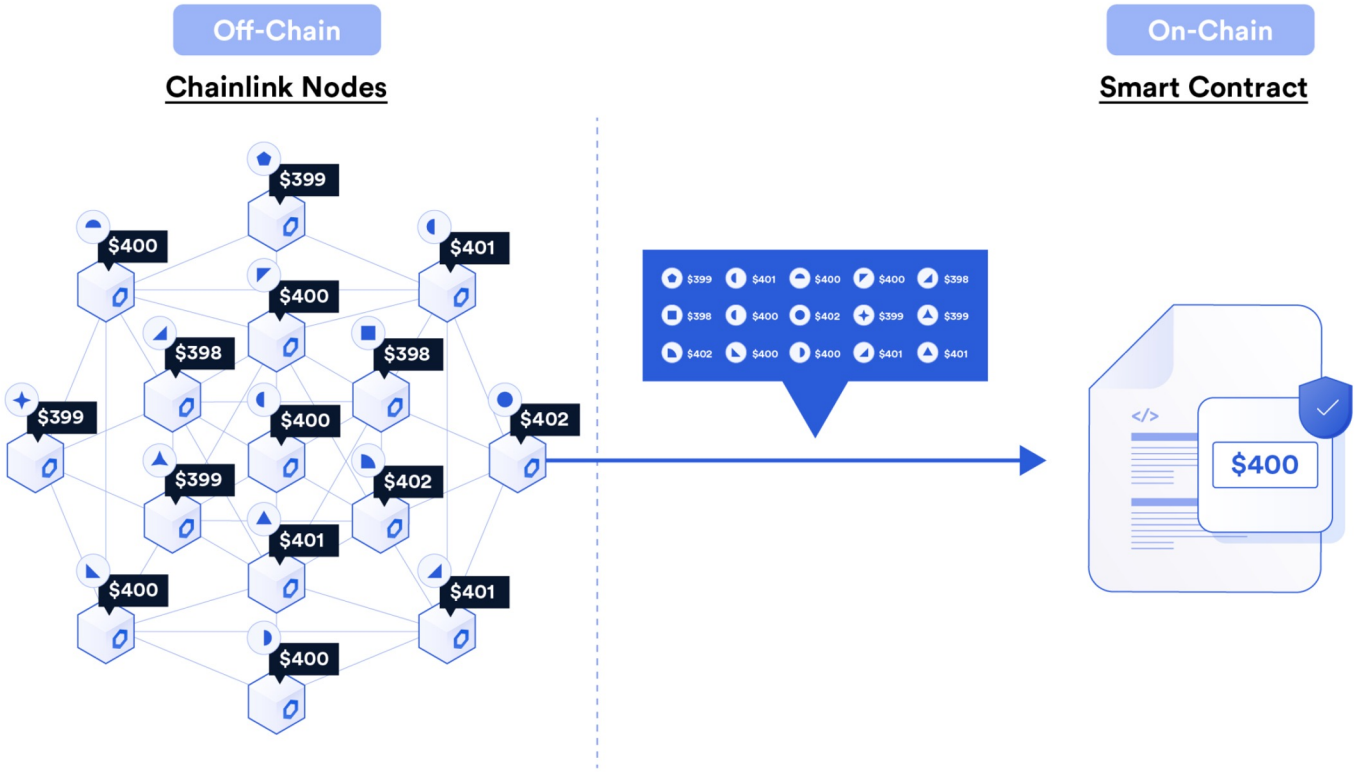
Real World Data and Events



Blockchains



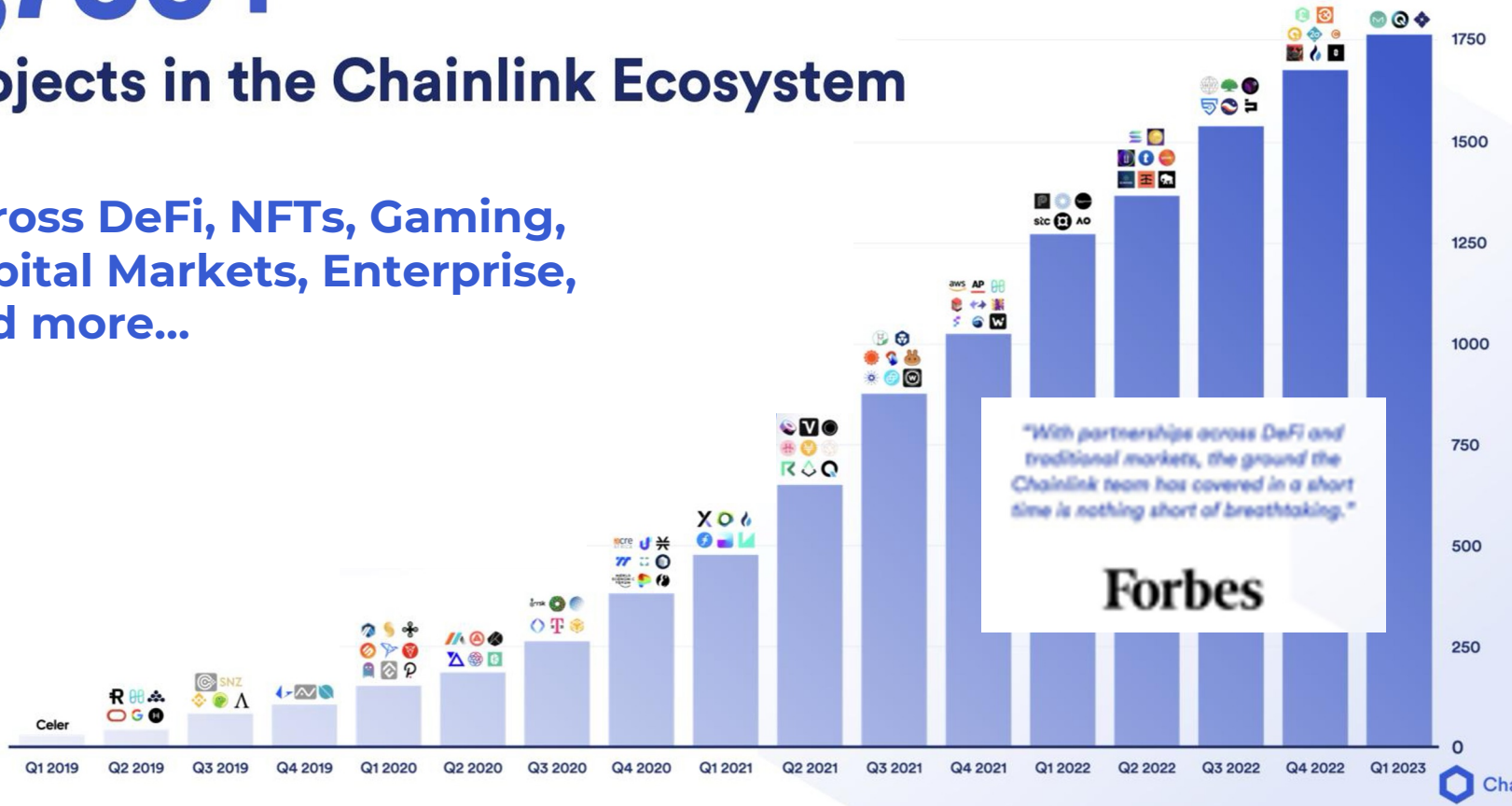
Trust is the big issue



1,750+

Projects in the Chainlink Ecosystem

Across DeFi, NFTs, Gaming, Capital Markets, Enterprise, and more...



What Is Chainlink?

The Industry-Standard Web3 Services Platform



Chainlink

Just an oracle?

The Chainlink Platform

CROSS-CHAIN

CCIP

Move data and value between existing systems and any public or private blockchain. Architected with multiple decentralized oracle networks and a state of the art Risk Management Network, CCIP is the only interoperability protocol that operates at the fifth level of cross-chain security.

DATA

Data Streams

Leverage low-latency market data to power next-generation DeFi markets.

Market and Data Feeds

Integrate ultra-secure onchain data to trigger smart contracts in DeFi and beyond.

Proof of Reserve

Verify cross-chain and offchain reserves backing tokenized and wrapped assets.

COMPUTE

Functions

Connect a smart contract to any API and run custom computation in minutes.

Automation

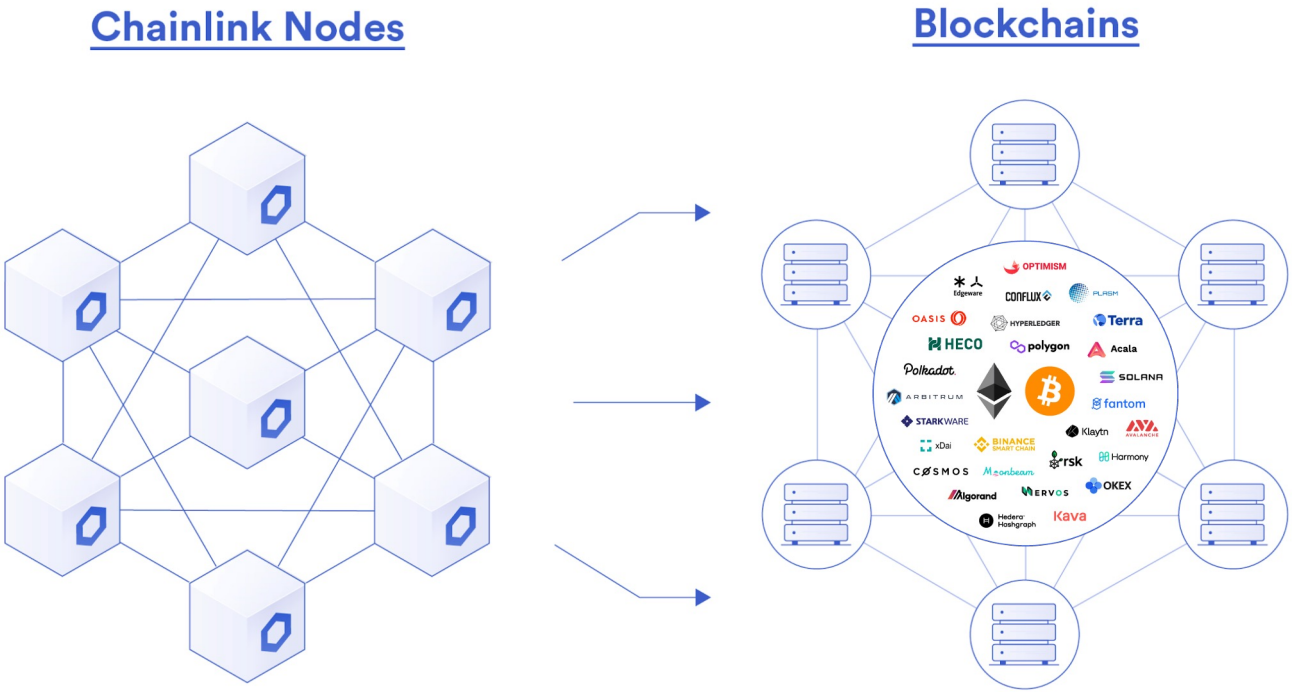
Automate smart contracts in a decentralized way with time or event-based triggers.

VRF

Use verifiably random numbers to ensure fair outcomes in games, NFTs, and more.



Blockchain Agnostic



Chainlink Products



Market & Data Feeds secure billions of dollars in smart contract value across the DeFi ecosystem.



Proof of Reserve enables real-time auditing of off-chain reserves backing on-chain assets, ensuring assets are fully collateralized.



Data Streams provides low-latency delivery of market data off-chain that you can verify on chain

Chainlink Products



Automation
automate smart contracts in a decentralized way with time or event-based triggers.



VRF
Use verifiably random numbers to ensure fair outcomes in games, NFTs, and more.



Functions
Connect a smart contract to any API and run custom web3 computation in minutes

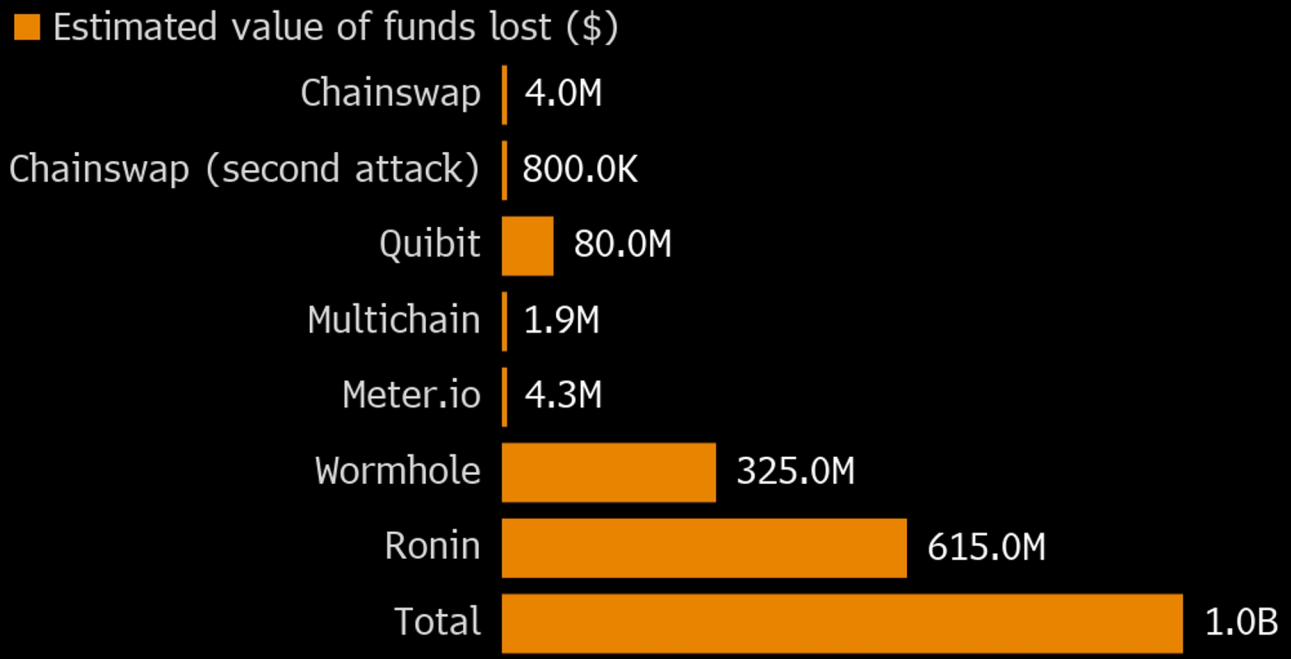
Chainlink

Why do we need CCIP?


Chainlink
Cross-Chain
Interoperability Protocol
Securely transfer tokens, send messages, and initiate actions
across blockchains using a single interface

Crypto Bridge Hacks

More than $1 billion worth of funds were stolen from bridge-related exploits.



Chainalysis

Bloomberg

Core capabilities of CCIP



Token Transfers

The ability to transfer (ERC20) tokens to a receiving smart contract or wallet address (EOA)



Arbitrary Messaging

The ability to send arbitrary data (i.e. bytes) to a receiving smart contract

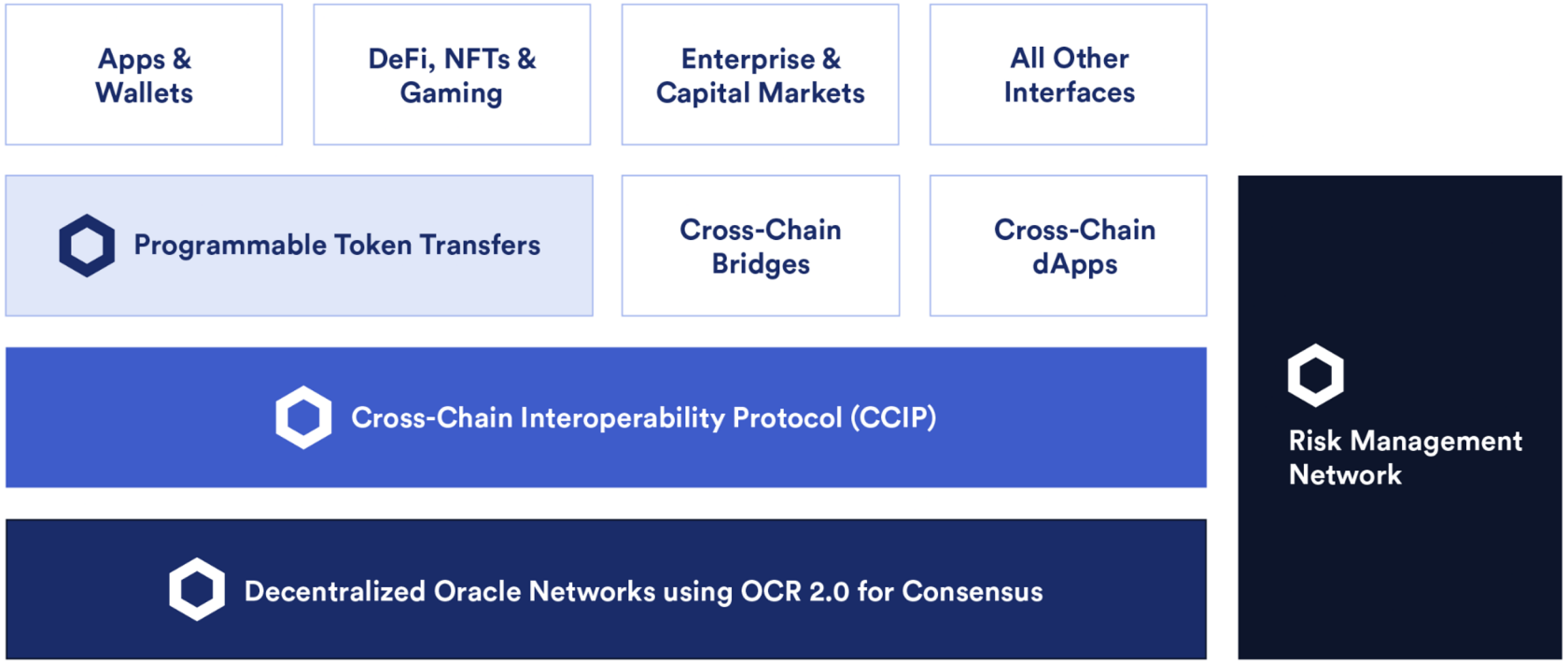


Programmable Token Transfers

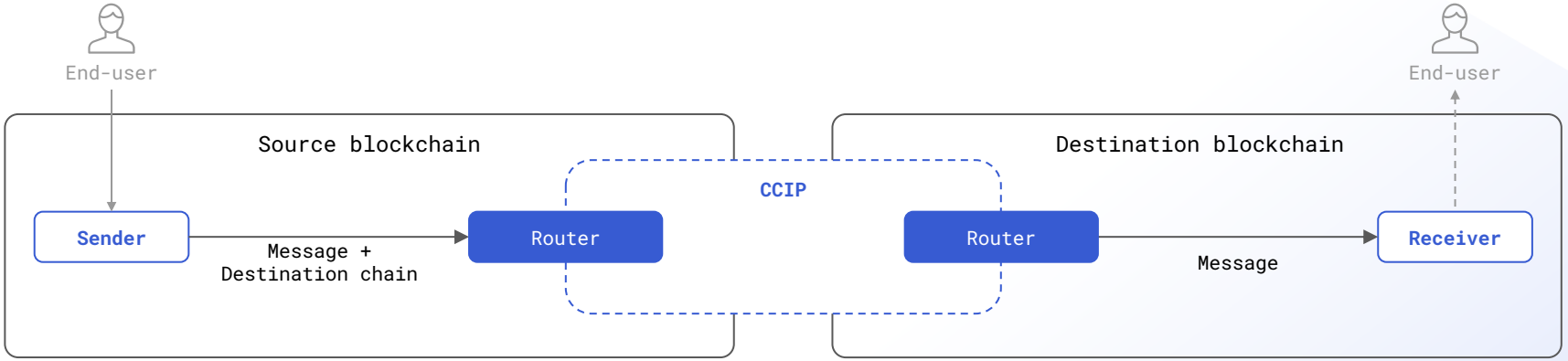
The ability to transfer tokens along with instructions what to do with those tokens, to a receiving smart contract

Chainlink

Cross-Chain Stack



Simplified Architecture and Workflow



A CCIP '**Message**' can include:

Data — Arbitrary Messaging

or

Tokens — Token Transfers

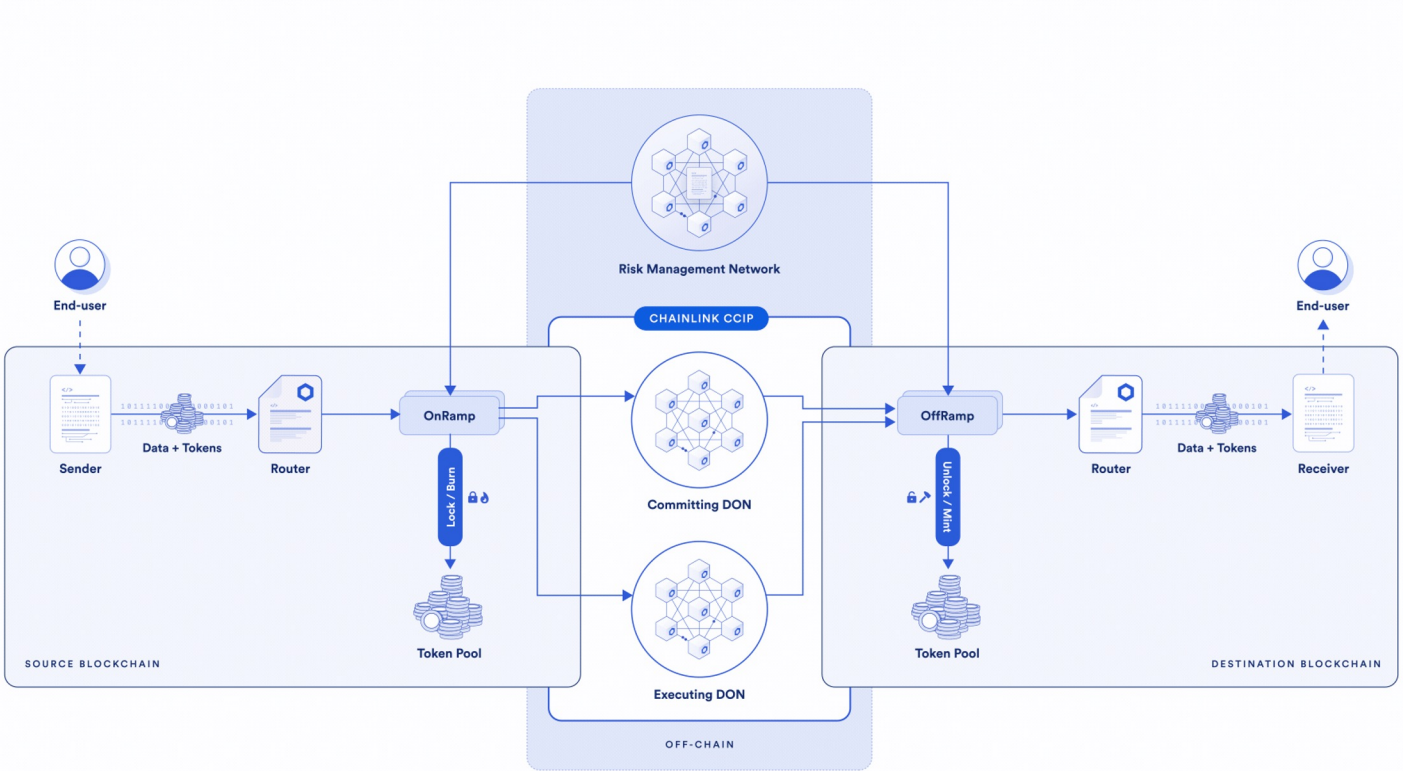
or

Data + Tokens — Programmable Token Transfers

Also known as:

Chainlink

Detailed Architecture and Workflow



Cross-Chain Use Cases



DeFi



Tokenized Assets



NFTs



Gaming



Governance



Data Storage & Computation



Identity



Wallets

Thanks!

Join the Frankfurt Meetup community!



Chainlink











Join us in building the verifiable web

Why join Chainlink Labs?

Revolutionizing the Web3 ecosystem: Help lead the development of the Internet of Contracts with advanced Web3 technologies

World-class team: Collaborate with top-tier academics and engineers in a high-impact, rewarding environment

Dynamic and supportive culture: Benefit from rapid growth and autonomy in a startup setting

100% remote work: Work from anywhere in the world with a global and distributed team

Interested? Check out our open roles.

Chainlink

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Secure and **effortless** interoperability between **different** blockchains and traditional systems

Chainlink and Capital Markets – New Frontier

DeFi and the transition into Capital Markets

Institutional adoption growing

- Beginning of mainstream growth, moving from POCs, to Live Pilots, and increasingly live platforms.



Regulatory certainty

- UK BoE, HMT and FCA - Digital Securities Sandbox “DSS”
- EU DLT Pilot Regime
- MiCAR
- Basel changes to capital rules around crypto assets



BUT…

Majority of activity around **tokenised assets, RWAs** and **DLT efficiency projects** is on **single chains**

This limits **transparency**, **fungibility**, and most importantly **liquidity**.



Chainlink

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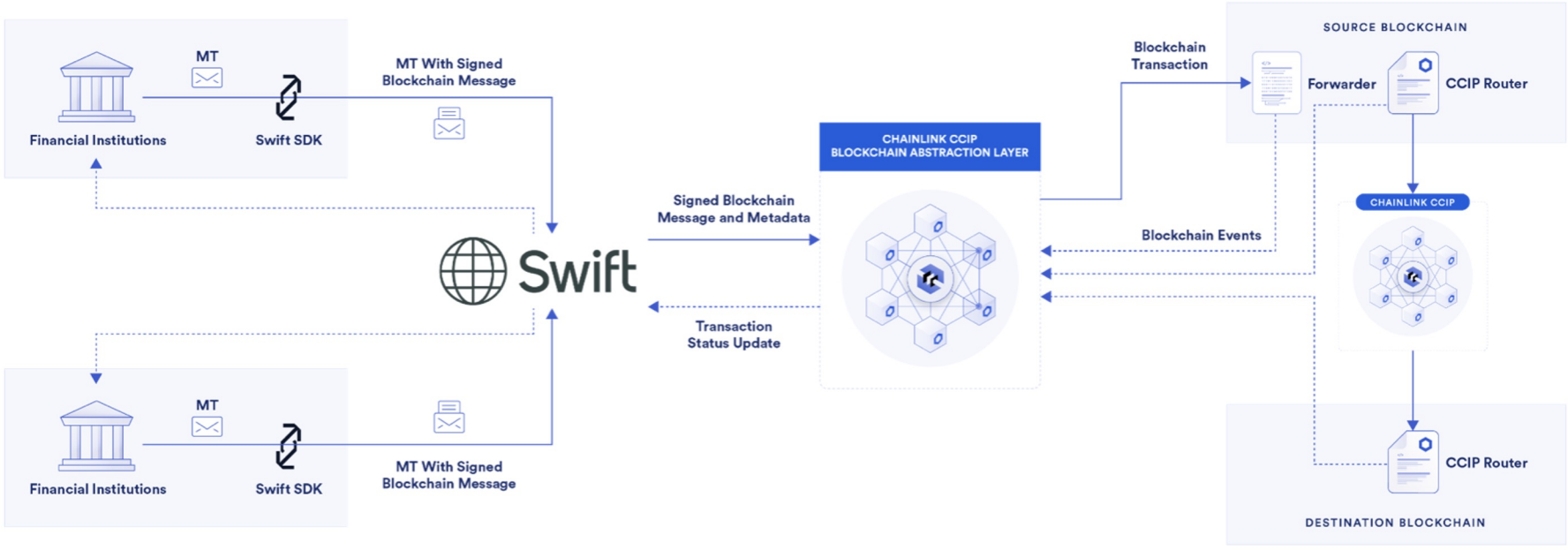
The Chainlink Platform

The leading technology platform for **onchain data**, **cross-chain interoperability**, and **blockchain abstraction**, designed to solve the following challenges across the tokenized asset lifecycle:

The Data Challenge	The Liquidity Challenge	The Synchronization Challenge
Tokenized assets need access to real-world information.	To be successful, tokenized assets need secure connectivity across chains.	When tokenized assets move across chains, data needs to stay synchronized and up-to-date.
Chainlink brings real-world data onchain securely, providing programmable tokenized assets and smart contracts with the up-to-date and reliable data they need such as market pricing, AML/KYC data, identity data and proof of reserves.	**Chainlink connects both public blockchains and private bank DLTs** into one Internet of Contracts, opening up new markets for innovative tokenized asset products.	**Chainlink brings reliable offchain data connectivity and secure cross-chain interoperability** to enable a unified Golden Record that functions cross-chains.

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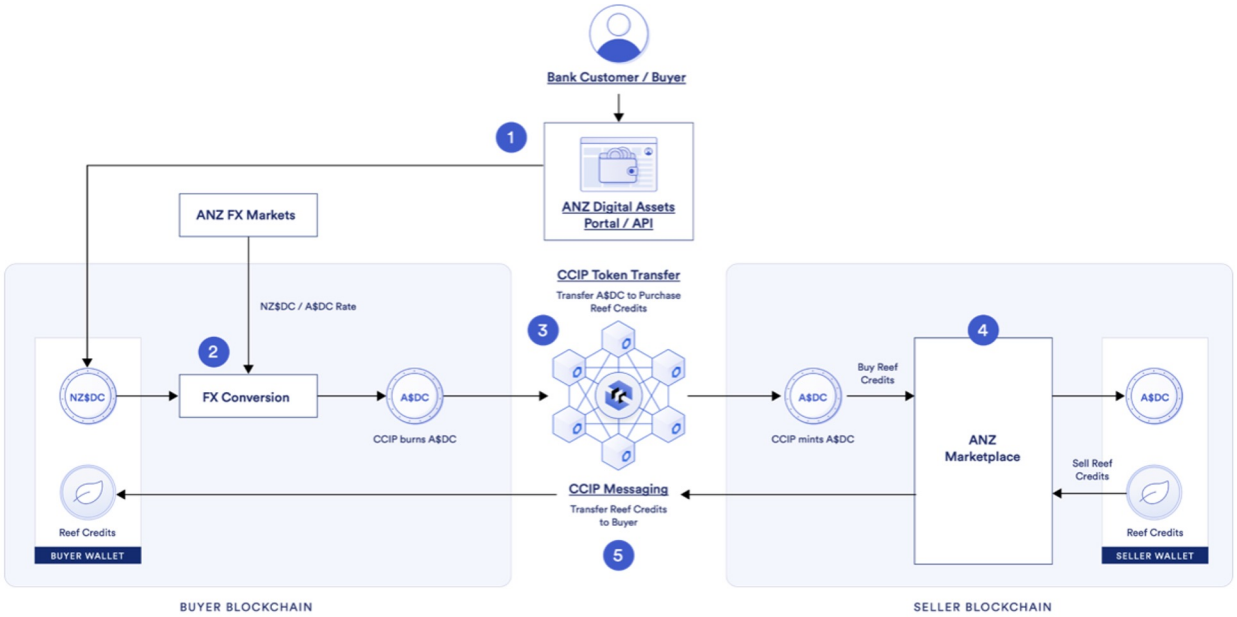
Swift and Chainlink collaborate to efficiently connect banks to blockchains utilizing existing banking standards



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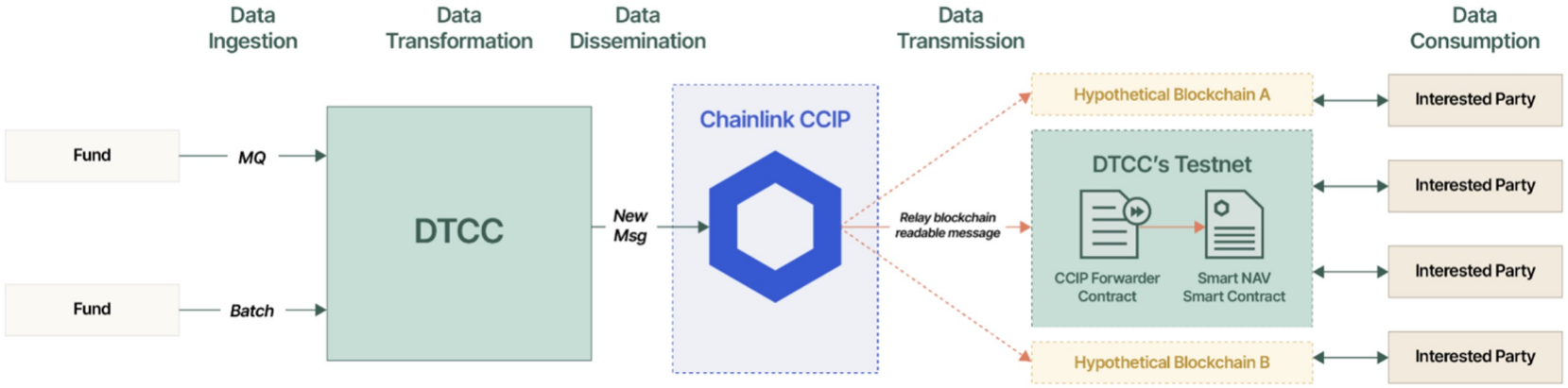
Chainlink

ANZ and Chainlink CCIP enables cross-chain, cross-currency Delivery vs Payment (DvP) transactions of tokenized assets



Chainlink

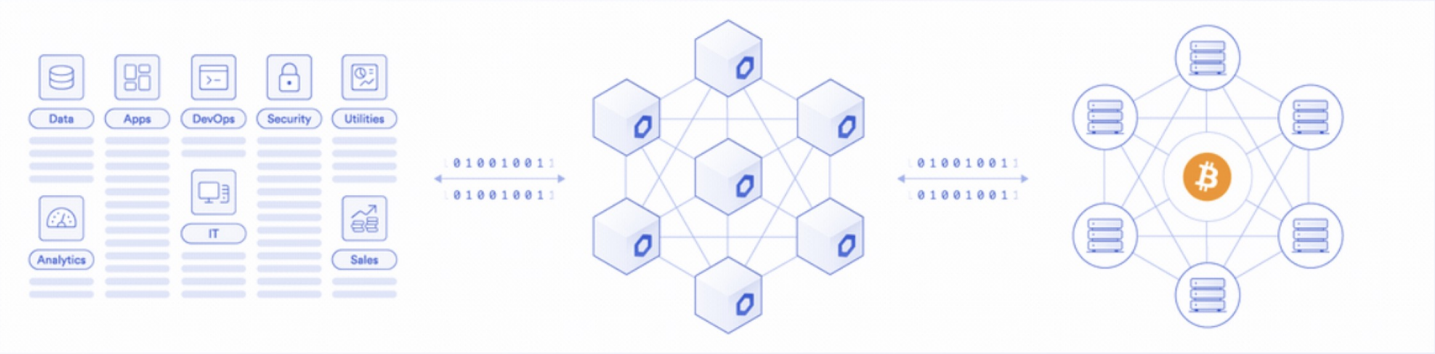
DTCC uses Chainlink CCIP to publish mutual fund data on potentially infinite numbers of blockchains



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Easily integrate your enterprise tech stack with blockchains using Chainlink's Blockchain Abstraction Layer

- **Transact** from existing systems [via Swift messaging, FIX protocol, proprietary APIs etc.]
- **Post** data to smart contracts [from legacy sources such as databases, spreadsheets, files, MQ etc.]
- **Capture** transaction status updates [for existing workflows and operational tools]
- **Control** assets with existing [key management] infrastructure



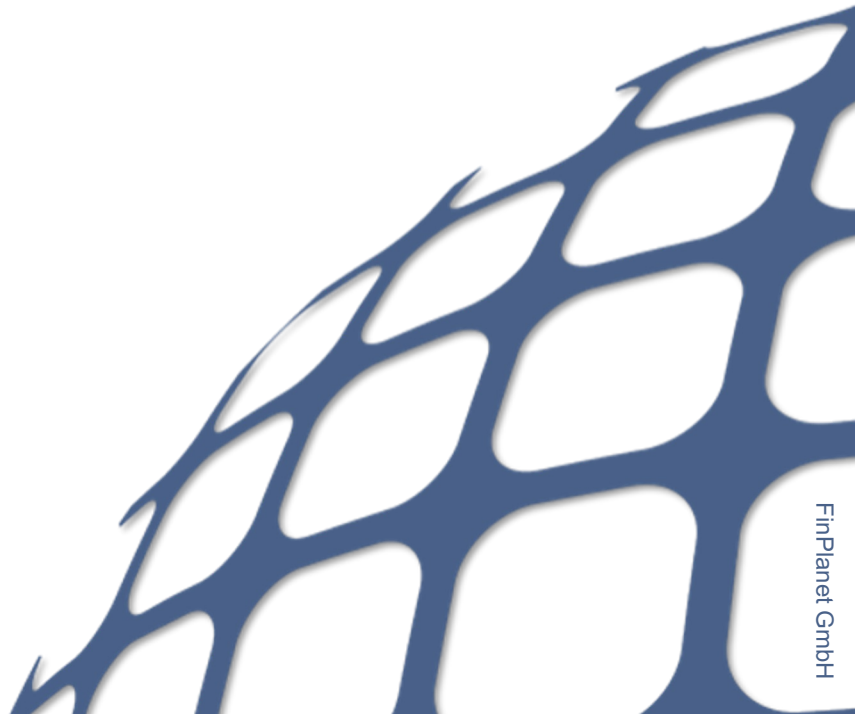
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FinPlanet

Industry Adoption of Blockchain in TradFi

April 15th 2024

Dirk Sturz



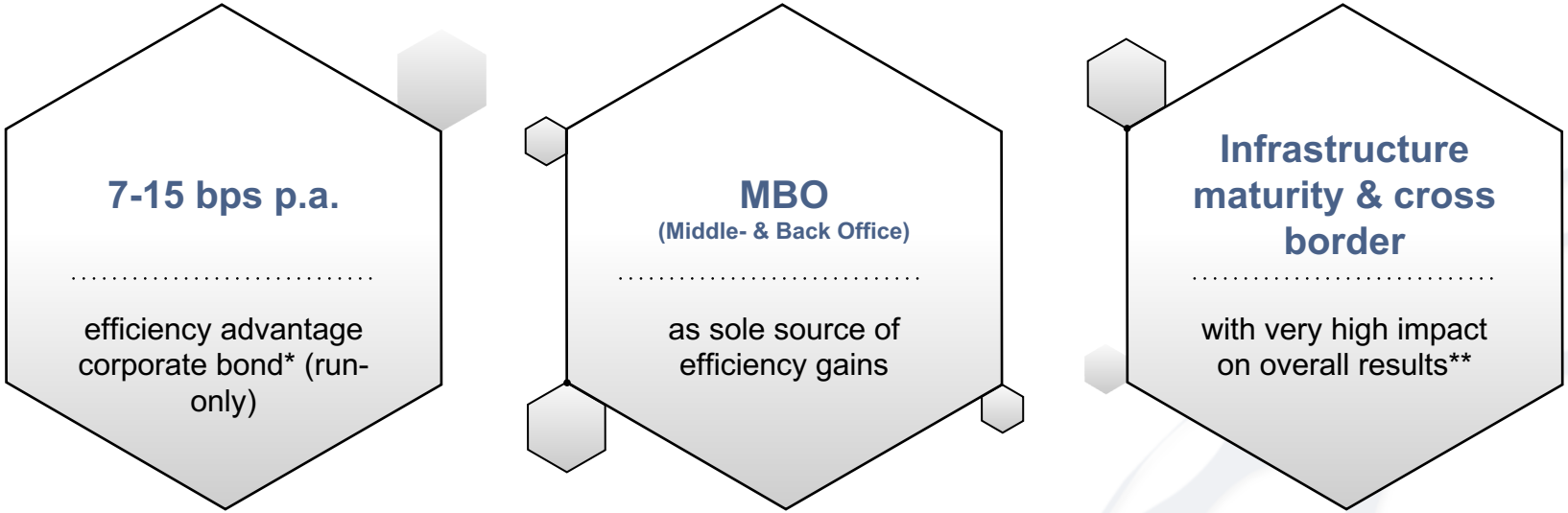
FinPlanet GmbH

Agenda

1. Long term potential of DLT in capital markets
2. Short term challenges

1. Long term potential of DLT in capital markets

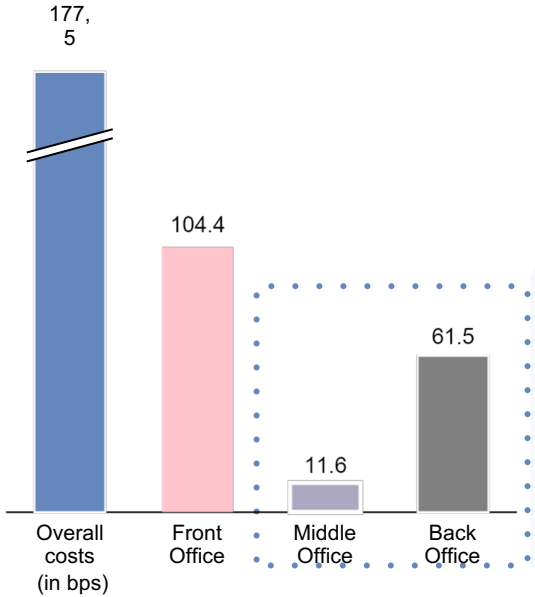
Cost Savings Potential



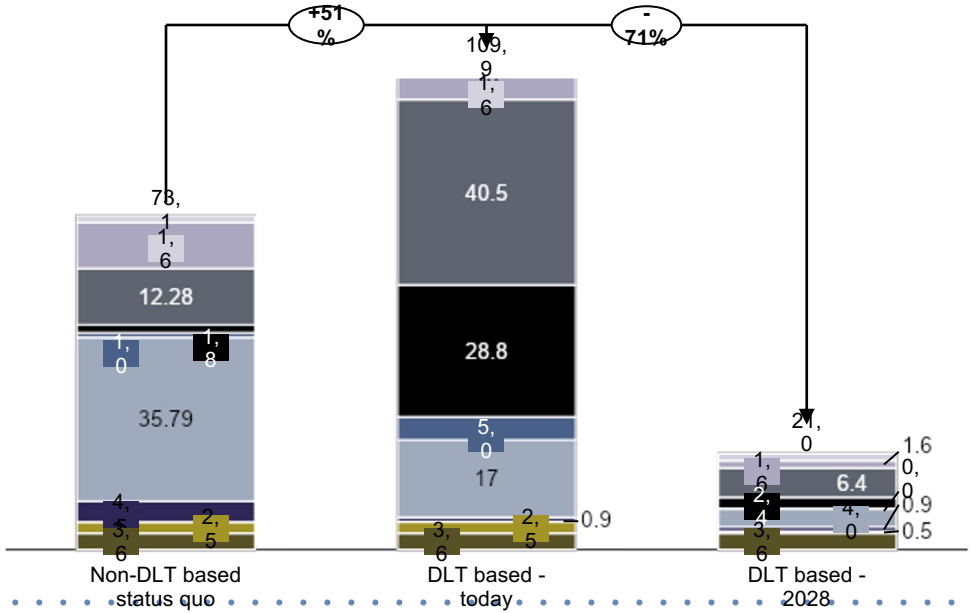
www.tokenization-study.com cashlink **Porsche Consulting** FinPlanet

* 8 year bond; run-only; aggregated over all relevant market participants in MBO. Cost reductions per individual value chain element / process steps within MBO up to 85%;** Infrastructure maturity measured by various different parameters such as e.g. availability of cash leg, blockchain interoperability, smart contract ecosystem and on-chain volume. Cross border perspective involving foreign investors
Source: FinPlanet, Cashlink, Porsche Consulting

E2E bps cost split



DLT cost impact across observed points in time (in bps)



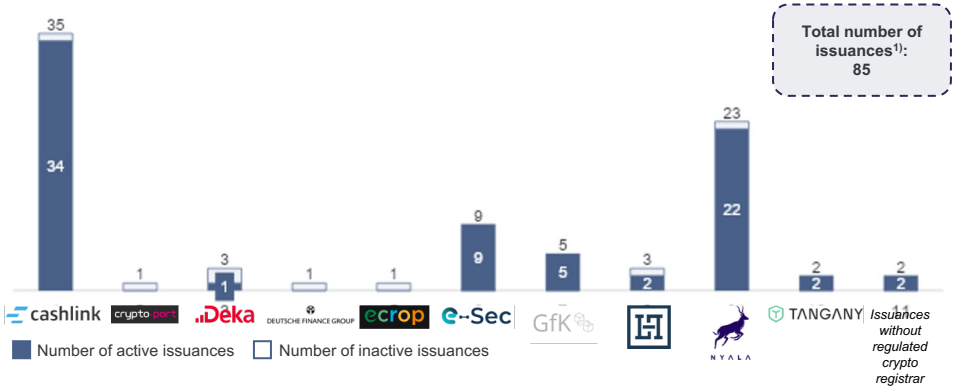
Performance & Risk Management | Trade flow monitoring | Depositary business | Security accounts | Clearing and settlement | Corporate actions and asset servicing | Custody | Regulatory Reporting | Client Reporting

Source: FinPlanet, Cashlink, Porsche Consulting

FinPlanet

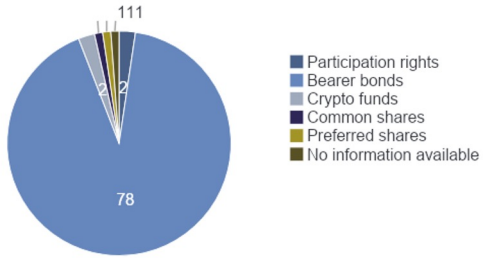
Crypto securities according to German eWpG as of April 9th, 2024

Number of active and inactive issuances

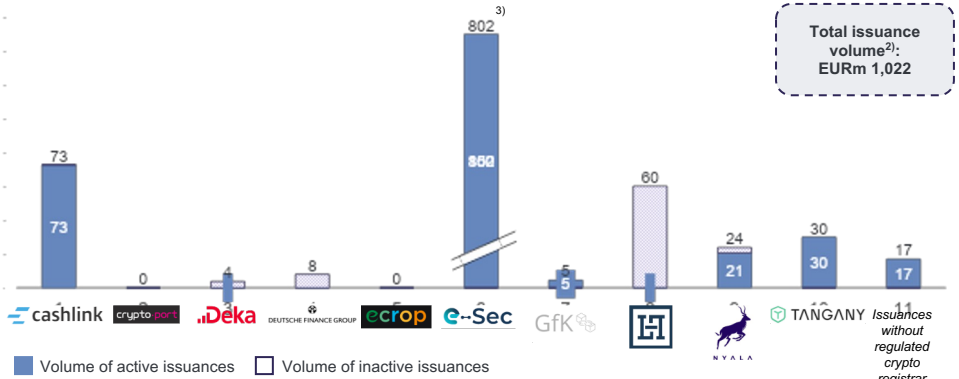


Total number of issuances[1]: 85

Number of issuances by type of security[4]

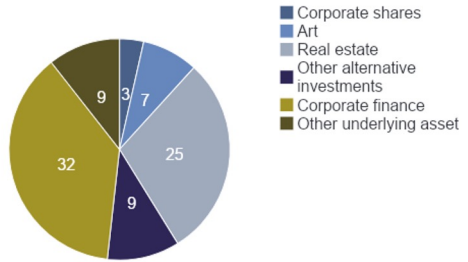


Volume of active and inactive issuances (in EURm)



Total issuance volume[2]: EURm 1,022

Number of issuances by type of underlying asset[4]



Footnotes: 1) Based on the database regarding crypto securities of BaFin and companies' publications; 2) Based on public information including terms and conditions or website the crypto security registrar regarding the maximum issuances volumes and without considering issuances without public information regarding maximum volumes; 3) Issuance volumes in USD. In addition, e-sec currently publishes an issuance volume of USDm 25 for its bond LU2718166007 on its website. The bond's terms and conditions however show a maximum volume of USDm 250 which are considered here; 4) Based on public information and securities' terms and conditions.

2. Short Term Challenges

Product Strategy

- Expansion of today's largely revenue driven DLT product portfolio towards more cost driven products
- However: Sufficient volume to reach profitability thresholds even more important for cost driven products · this puts issuers of financial market products in a favorable starting position

IT & Operations

- On- and off-chain world have to be run in parallel for an unforeseeable period of time · therefore orchestration layer very important
- Specific requirements for interoperability are discussed but not yet fully understood.
- Each bank / asset manager with the need to carefully and thoroughly selecting the right processes for effective smart contract application

Pricing & Distribution strategy

- Market participants with decision to make whether to incorporate efficiency gains / cost advantages or to distribute amongst its sales organization (e.g. as incentivization tool)

Contact



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