

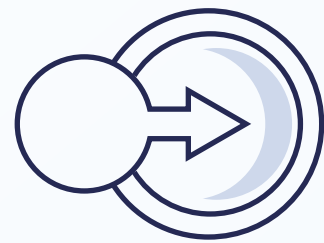


Open infrastructure to
connect supply chains

Contact: sander@supplain.io

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Current infrastructure isn't built to support the expected supply chain connectivity, globalisation and sustainability goals.



Companies have to set up **100s of direct integrations** only to initiate partnerships.



Industries waste **billions every year on maintenance** of different standards.



Supply chains still have **no transparency, traceability and trust.**

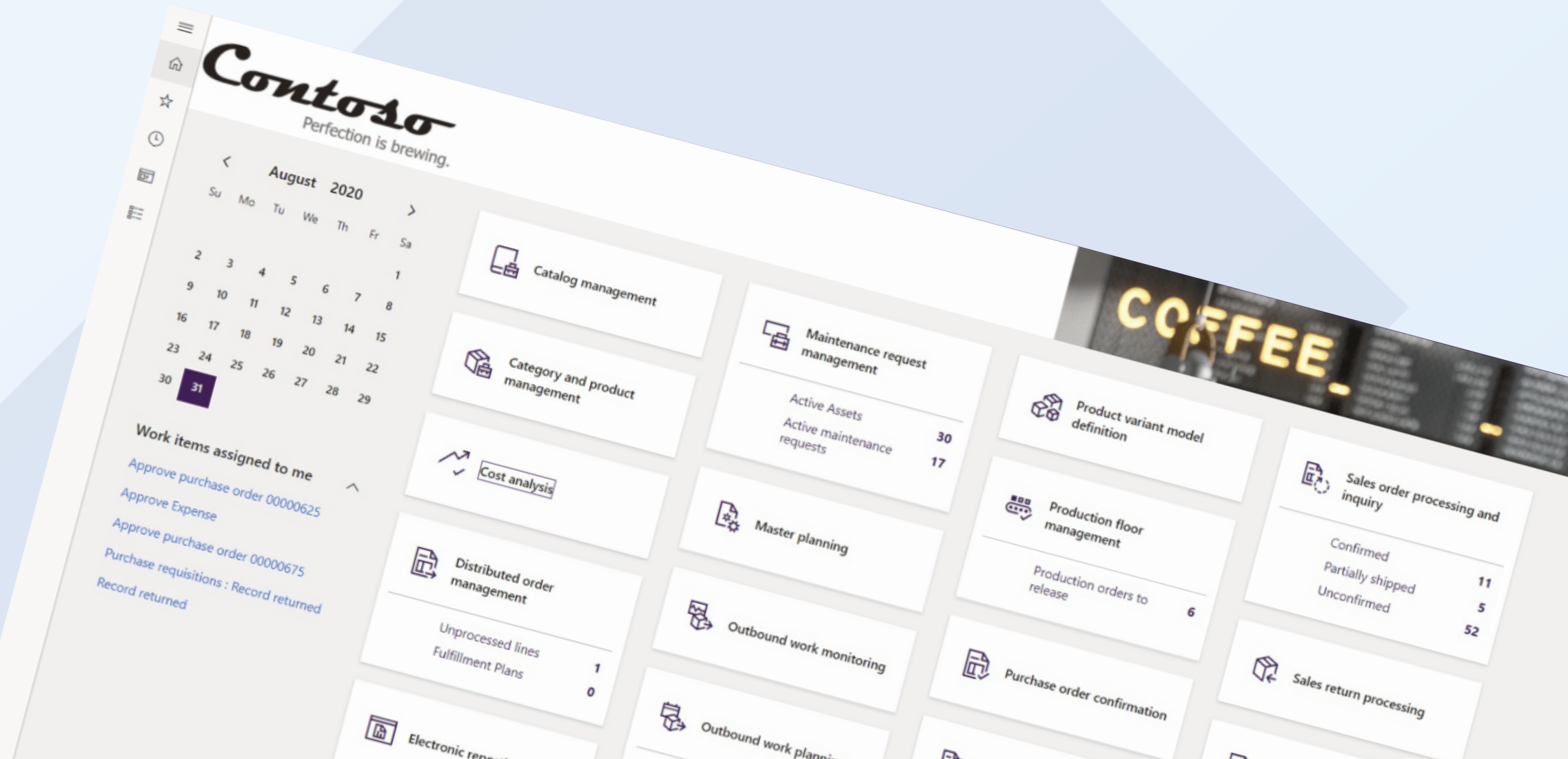
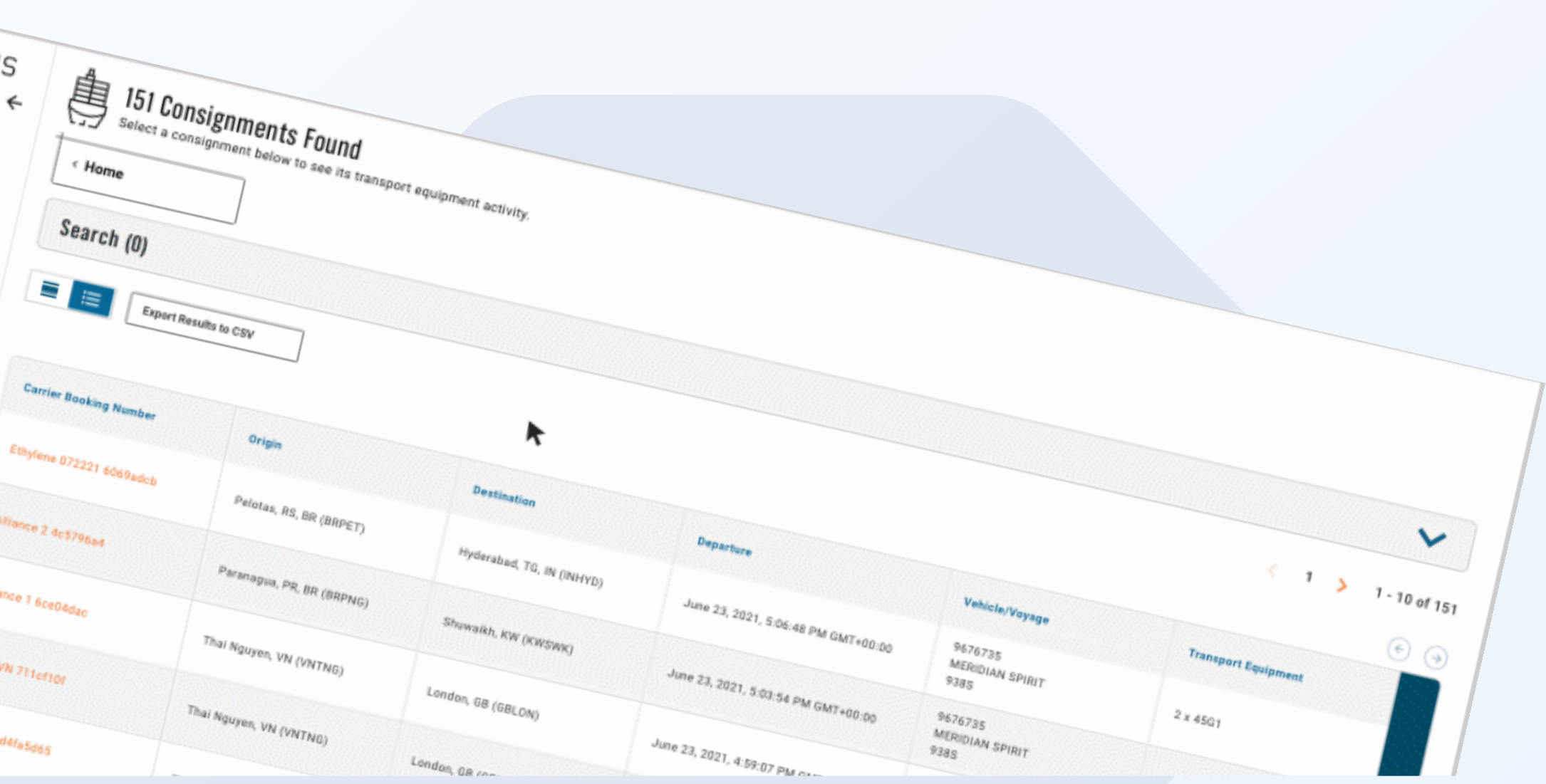
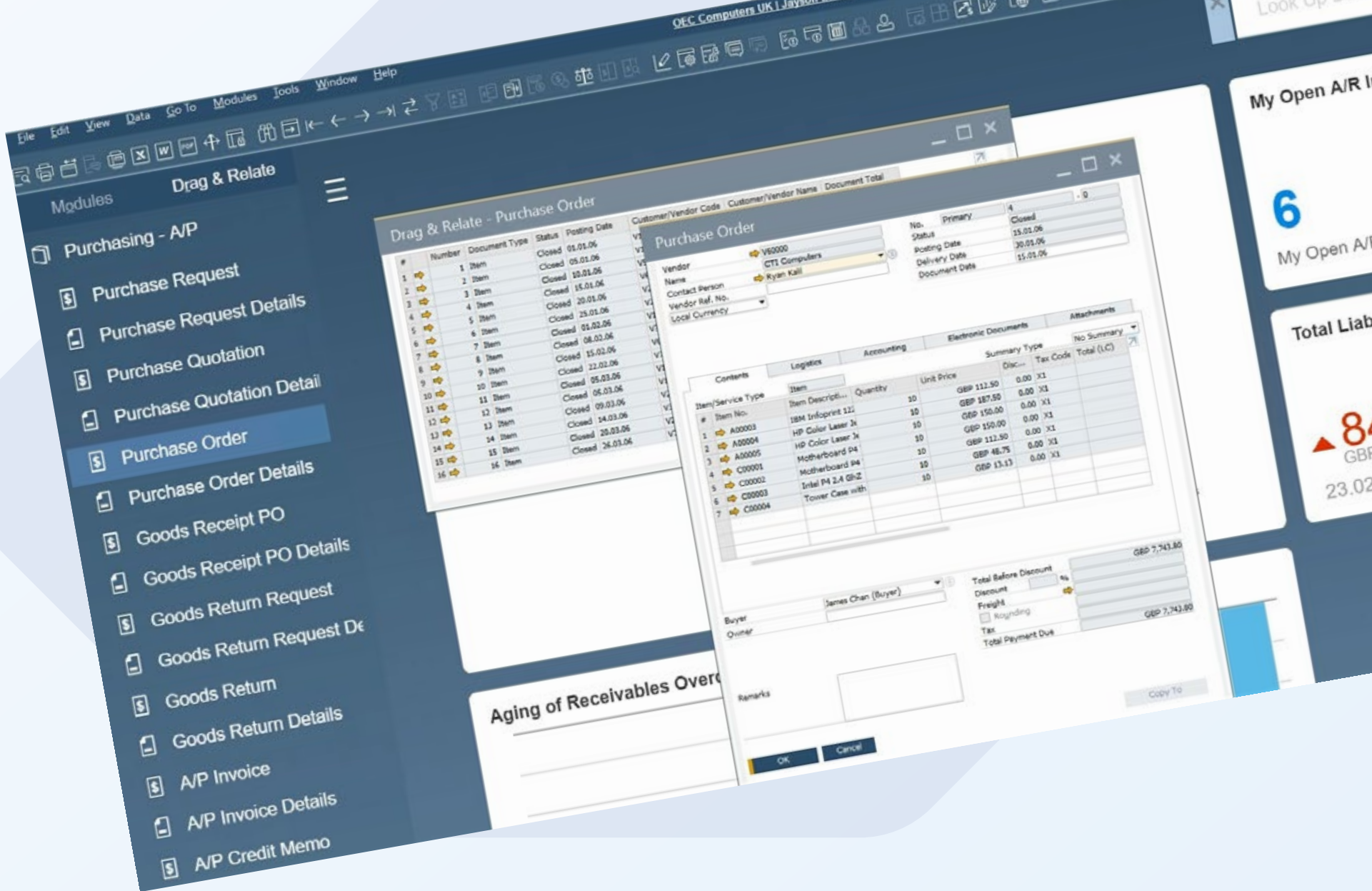
Existing supply chain connectivity protocols and platforms don't support open innovation and aren't entirely neutral.



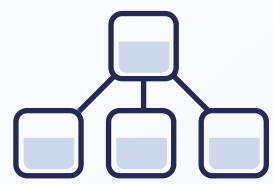
They require **massive onboarding investment** and lock companies into **closed systems**.



They provide **limited access** to value-added services and take **ownership of data**.



What if all companies were connected through a neutral and open infrastructure, that removes the need for direct integrations?



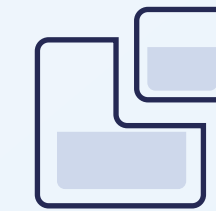
Interoperable

Connects with and enables data exchange between any database or platform.



Verifiable

Increases transparency, traceability and trust across global supply chains.



Easy to adopt

Works underneath existing workflow. No behaviour change needed.

**Users get 80% of the value
with 20% of the effort**



Easy

Easy to adopt because it's interoperable and works with existing workflow



Cost-Efficient

No more costly integrations or verification costs when onboarding new partners.



Growth-Oriented

Access to more partners and value-added services built on any ecosystem.

Suplain helps to create circular supply chains

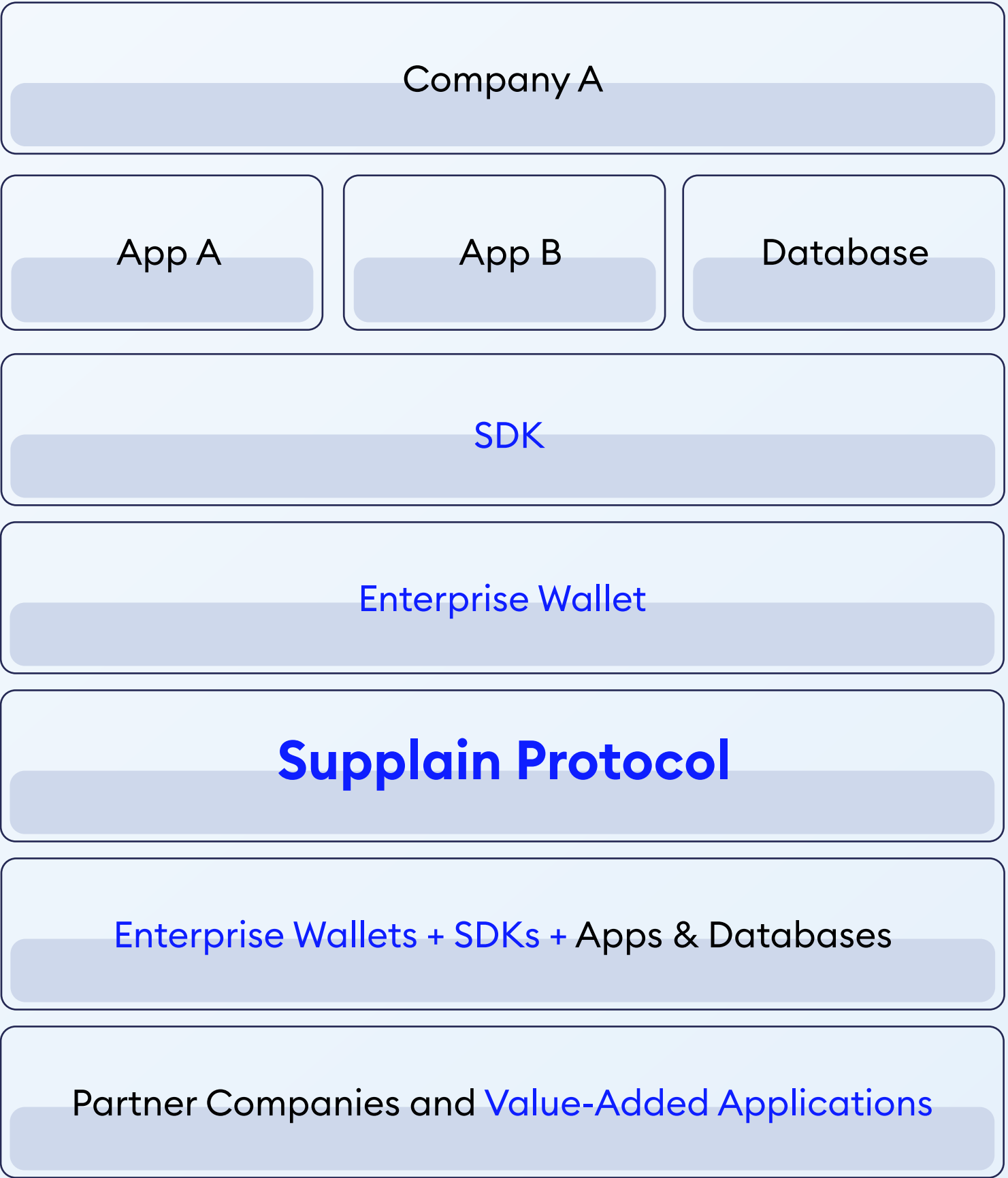
How it works?

First steps

- 1. Set up **enterprise wallet**. Companies’ digital identities get generated automatically.
- 2. Integrate existing apps and databases via our **SDK**. Important data/documents get translated into protocol specific format.

Augment existing workflows

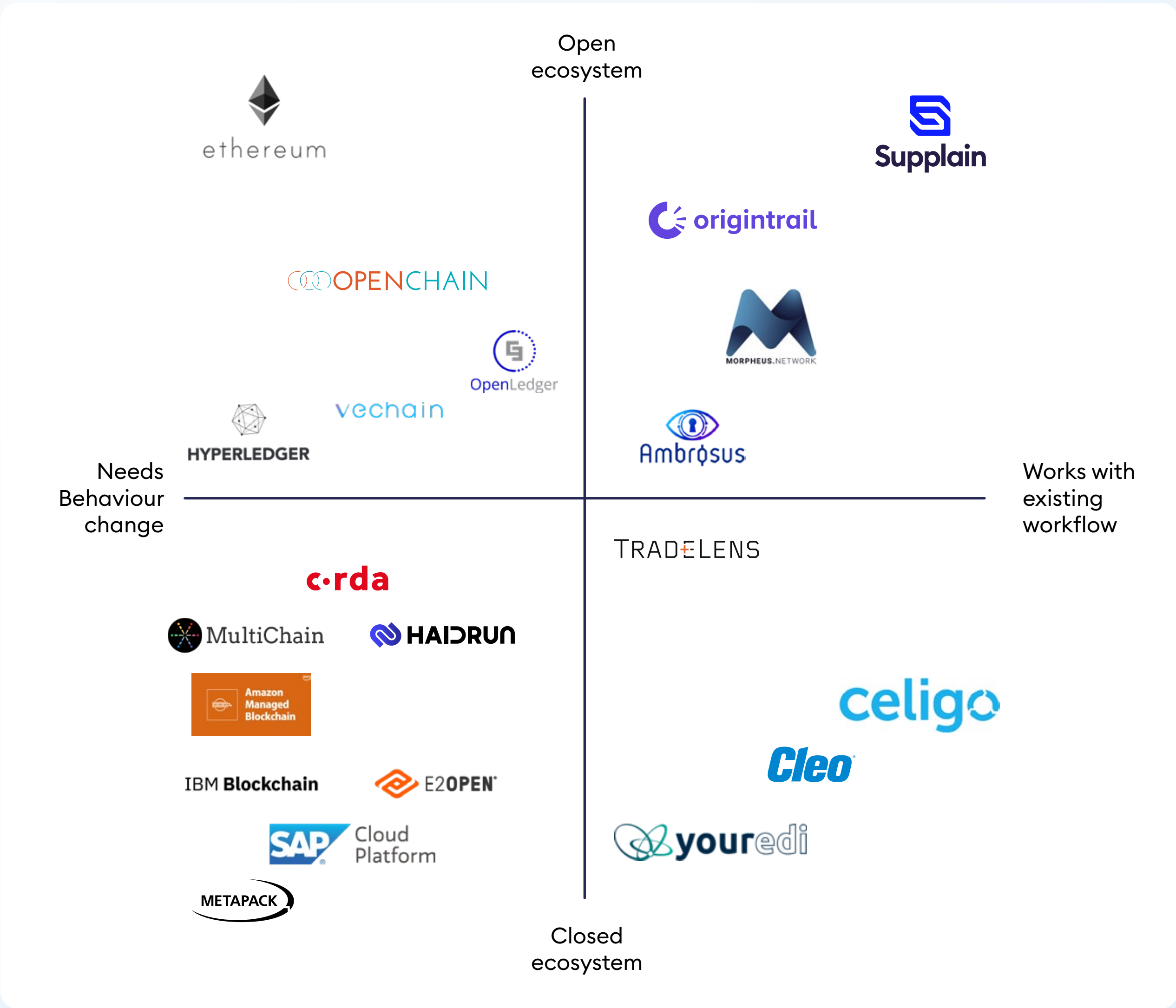
- 1. **Send messages**. Suplain protocol enables communication between all companies through protocol specific format.
- 2. **Access new services**. Suplain ecosystem combines various value-added applications that can be quickly implemented.
- 3. **Build the ecosystem**. Suplain technology is open-source and allows anyone to contribute by running a validator or developing new software services.



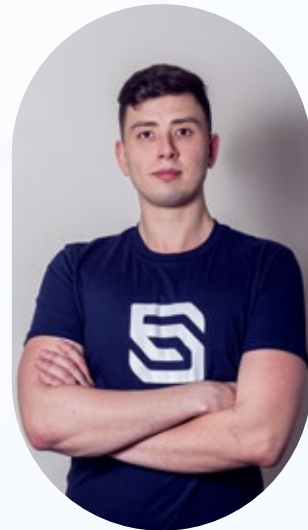
**Supplain usage will cost
<\$0.01 per transaction.**

Supply chain connectivity market underserves most companies.

- Massive onboarding investment and require changing existing apps and databases.
- Closed ecosystems with limited toolsets, where data ownership may be lost.

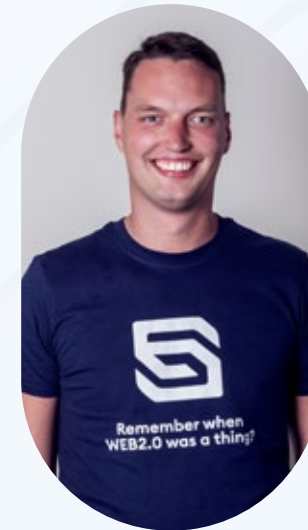


We are experts in Supply Chains and Digitalisation
We've worked together for 4 years
We are experienced in Community Building



Sander Gansen
CEO

Draper University alumni.
Founder with exit experience.
Expanded a franchise to 25 countries in 18 months.



Artur Kärblane
Head of Technology

Started building web3 solutions in 2017.
Previously head of technology at a supply chain startup.



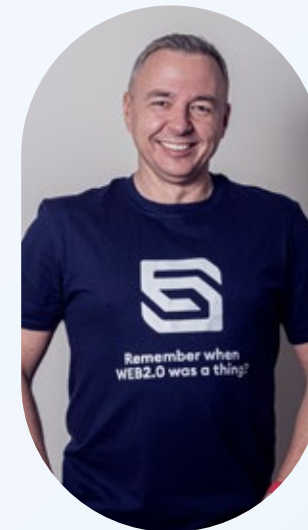
Keirin Rebane
Head of Product

Draper University alumni.
Previously founded a software development company that built supply chain products.



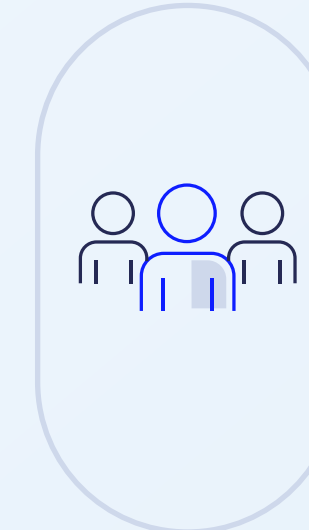
Andre Veskimeister
Head of Industry Relations

Previously CEO of a multinational supply chain enterprise.
30 years of experience as Executive for Enterprises.



Aleksander Gansen
Head of Business Development

Founder with exit experience.
30 years of experience in International Sales.



The Team

3x Full Stack Engineers
2x UI/UX Designers
1x Head of Marketing
1x Marketing Specialist
1x Community Manager

The Community

Over 2,000 global members,
including supply chain experts,
full stack developers, renowned
marketers and professional investors.
Invested \$1M via buying NFTs.

We've bootstrapped for 15 months, researching the market and building a community.

- In April 2021, we started our research process, studying existing solutions and protocols.
- In September 2021, we started building our community and launched an NFT project.
- In February 2022, we released our white paper for Supplain blockchain.
- In April 2022, we hosted our first event, educating attendees about web3 utilities.
- In June 2022, we hosted a community gathering in NYC and grew our community in Austin & SF.

Community size

2,250

NFTs sold

4,000

1st event
attendee amount

500

Next up: Build demo use cases, host Supplain Summit, release test net, launch first products.

- In August 2022, we'll launch first demos built on Supplain's private test net.
- In September 2022, we'll host a supply chain innovation summit & present our demos.
- In October, we'll establish a supply chain innovators consortium around Supplain.
- In Q1 of 2023, we'll release our test net for first outside users and ecosystem builders.
- In Q2 of 2023, we'll launch first permissioned products built on the test net.

Supplain Summit
attendee amount

500

Initial consortium
member amount

20

Initial ecosystem
builders amount

5

Looking for 5 additional ecosystem builders to create first demos.

- We're looking for additional supply chain companies to show how the infrastructure will work.
- We accept both manufacturers, retail and logistics companies, as well as value-added technology product builders.
- Demo participation doesn't obligate companies to build final products or run live data through the protocol.

Initial ecosystem
builders amount

5

First demos
timeline

Q3 '22

Test new launch
target time

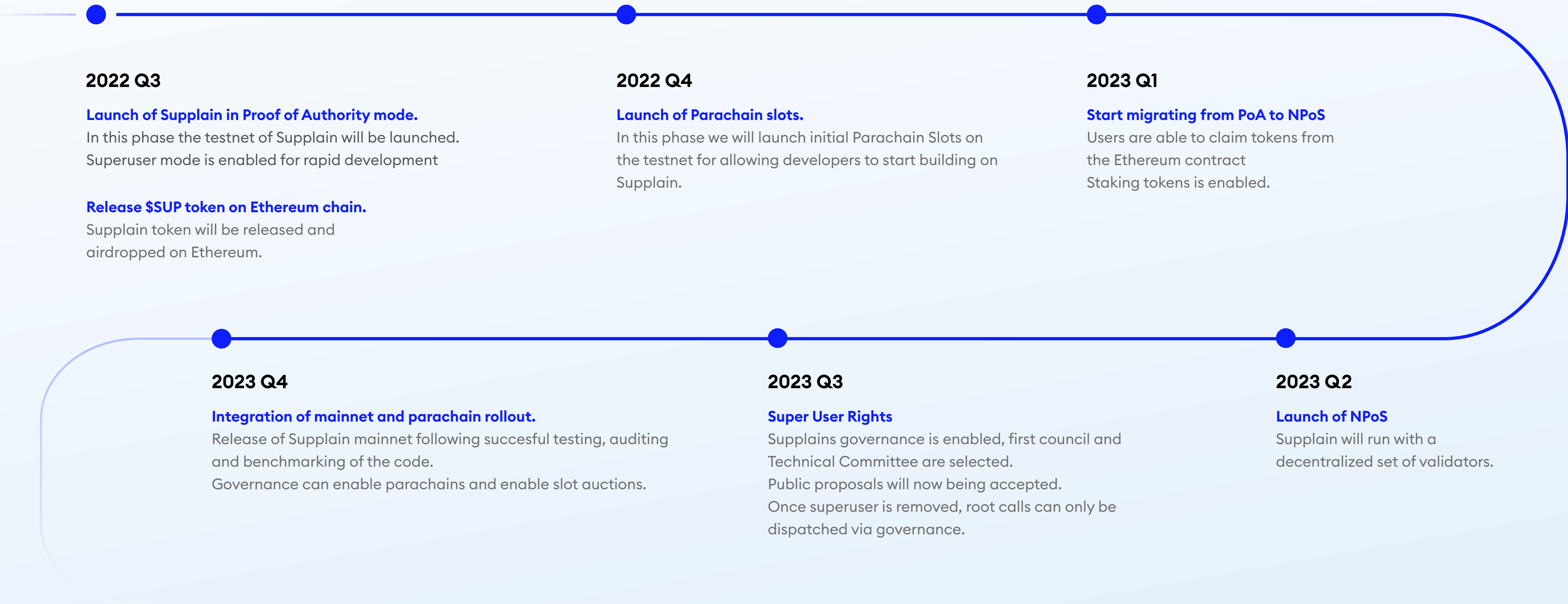
Q1 '23

INFRASTRUCTURE FOR CIRCULAR SUPPLY CHAINS

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Appendix

Road to Mainnet



The First Industry Use Case

The Labs

department will create simple solutions internally

Some of the early concepts include:

- Proof of transaction solution for supply chain companies
- Carbon-free delivery API for logistics companies
- Automated tax calculation and filing tools for end recipients

The Grant Reserve

mechanism to support new projects.

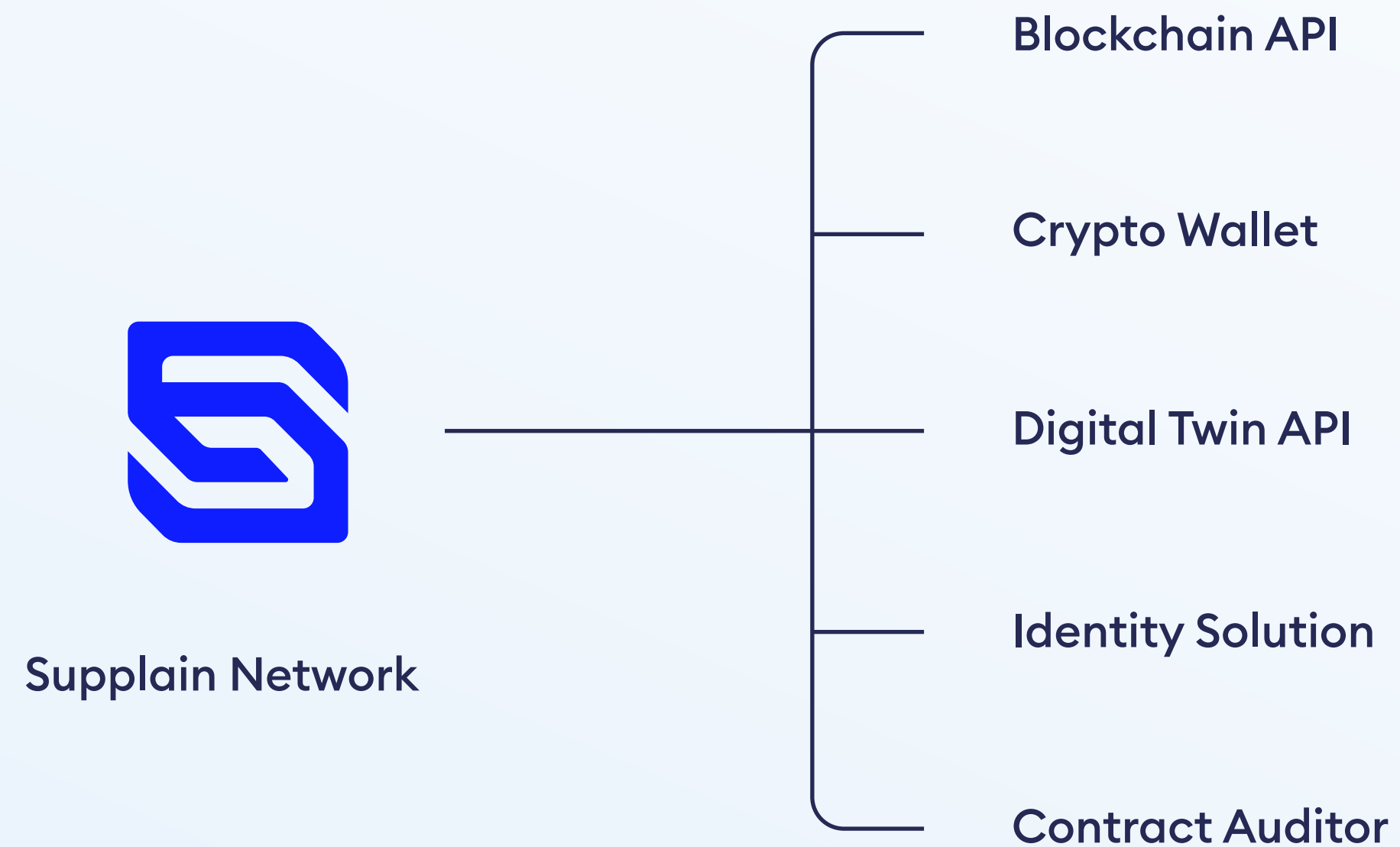
We have already been approached by teams eager to implement our infrastructure for:

- Vehicle supply chain ecosystem
- Real estate maintenance tool
- Aircraft spare parts platform

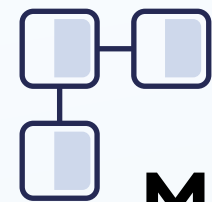
In addition, we explore other partnerships and implementing hackathons in our events ecosystem.

Initial Product Ecosystem

- First, WOF Labs builds the Network.
- Once the testnet is live, WOF Labs and other ecosystem developers will build core ecosystem products that streamline communication with the Network.
- In the future, anyone can build new or integrate existing products with Suplain Network.



Distributed, Privacy-preserving Yet Interoperable Blockchain Built For Supply Chain



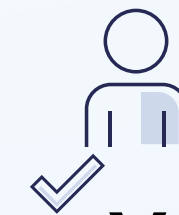
Multichain Model

Parties can create both public and private parallel sub-chains that communicate with each other. Supplain does this through a consensus mechanism for multiple co-operating blockchains derived from Polkadot's heterogeneous multichain model.



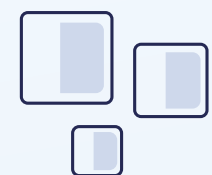
Digital Twins

Digital Twin as a new form of the digital ledger for record-keeping and data exchange. Recipients, be they private persons or businesses, will require access to parts of relevant Digital Twins.



Verifiable Identity

W3C Decentralised Identifiers (DIDs) for handling key management, delegation, and other identity-related concerns.



Highly Scalable

By focussing on providing only the infrastructure will maintain simplicity that is easy to scale.



Programmability

Supplain will support a WebAssembly based execution environment, supporting programming language agnostic smart contracts.



Privacy & Security

Guaranteed data synchronisation, non-repudiation, and strict privacy controls between parties.

Popular Blockchain Metrics Comparison

	Supplain (estimated)	Ethereum	XRP	Polkadot	Avalanche	Cosmos
Market Cap	?	240B	20B	12B	7B	3B
Consensus	POS Nominated	Proof of Work	Ripple Protocol Consensus	POS Nominated	POS Avalanche	POS Tendermint
Development	Rust	Solidity	C++	Rust	Go	Go
Sharded	YES	NO	YES	YES	NO	YES
Block time	6	13	10	6	2	7.4
Time to finality	60s	>300s	N/A	60s	<10s	<10s
TPS	100000	15	1500	1000	4500	100000
Transaction cost	<\$0.01	~\$5-30	<\$0.0001	<\$0.5	<\$0.08	<\$0.03
EVM Compatible	YES	YES	YES	YES	YES	YES
Bridge	Tokenized	Trustless	Tokenized	Tokenized	Tokenized	Tokenized
Security	Shared (parachains)	Global	Global	Shared (parachains)	Shared (subnets)	Blockchainundefined

Supplain

Supplain is a fork of Polkadot

Why build your own blockchain and not use existing ones?

We have 5 expectations that no existing blockchain seems to cover at once, leading us to build the Supplain protocol:

1. **Throughput** - We estimate that in year 4 or 5, we'll be doing 50'000-100'000 txns per second at a minimal cost per transaction, as the global supply chains are estimated to do millions of transactions per second off-chain today.

That's where we're looking to decouple compute & consensus on our network to make it possible.
2. **Privacy-perseverance** - When it comes to supply chain companies, they need to hold some of their business-specific data private while willing to keep the rest public to access various additional services. For that reason, we need to build a publicprivate balance into the blockchain.

consensus on our network to make it possible.
3. **Digital Twins** - Our core offering is to tokenize physical items and combine all of their data in single NFTs with different content reading & writing access rights, as well as multiple owners.
4. **Online Identities** - For corporations to manage access rights and verify counterparts, we need to develop or integrate systems for on-chain DIDs and Verifiable credentials.
5. **Sustainability** - Carbon neutrality is a must-have across the supply chains today, and we'll also build this functionality to support this into our chain.