FEDeRATED architecture Delft Workshop

29-03-2022

Mitchell Out (Chaiman FEDeRATED IT Architecture Board)

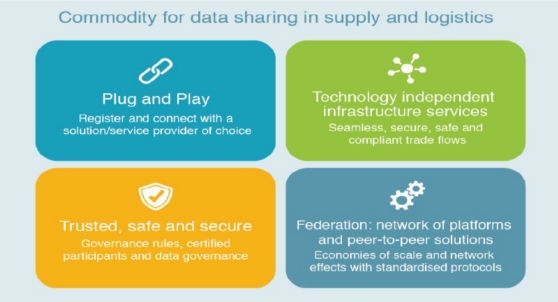
FEDeRATED
NETWORK OF PLATFORMS

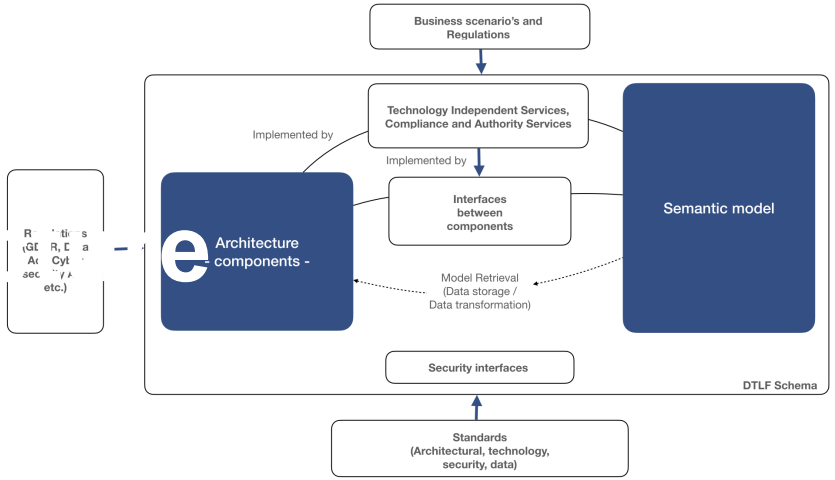
Co-financed by the Connecting Europe Facility of the European Union

Agenda

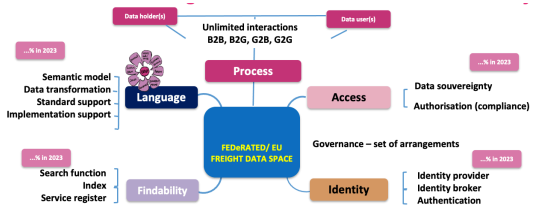
- Approach
- Overview
- Event concept
- Network
- Nodes
- Exchange
- Challenges

Architectural approach





Categorized overview



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THIS LEADS TO FUNCTIONALITY

Conceptual

Semantic Model | Standard support | Data transformation | Implementation support → Language

Business services | Business contract | Business transaction | Compliance and Authority → Process

Functional

Service registry | Index | Search → Searchability

Data sovereignty | Regulatory policies (compliance) → Accessibility

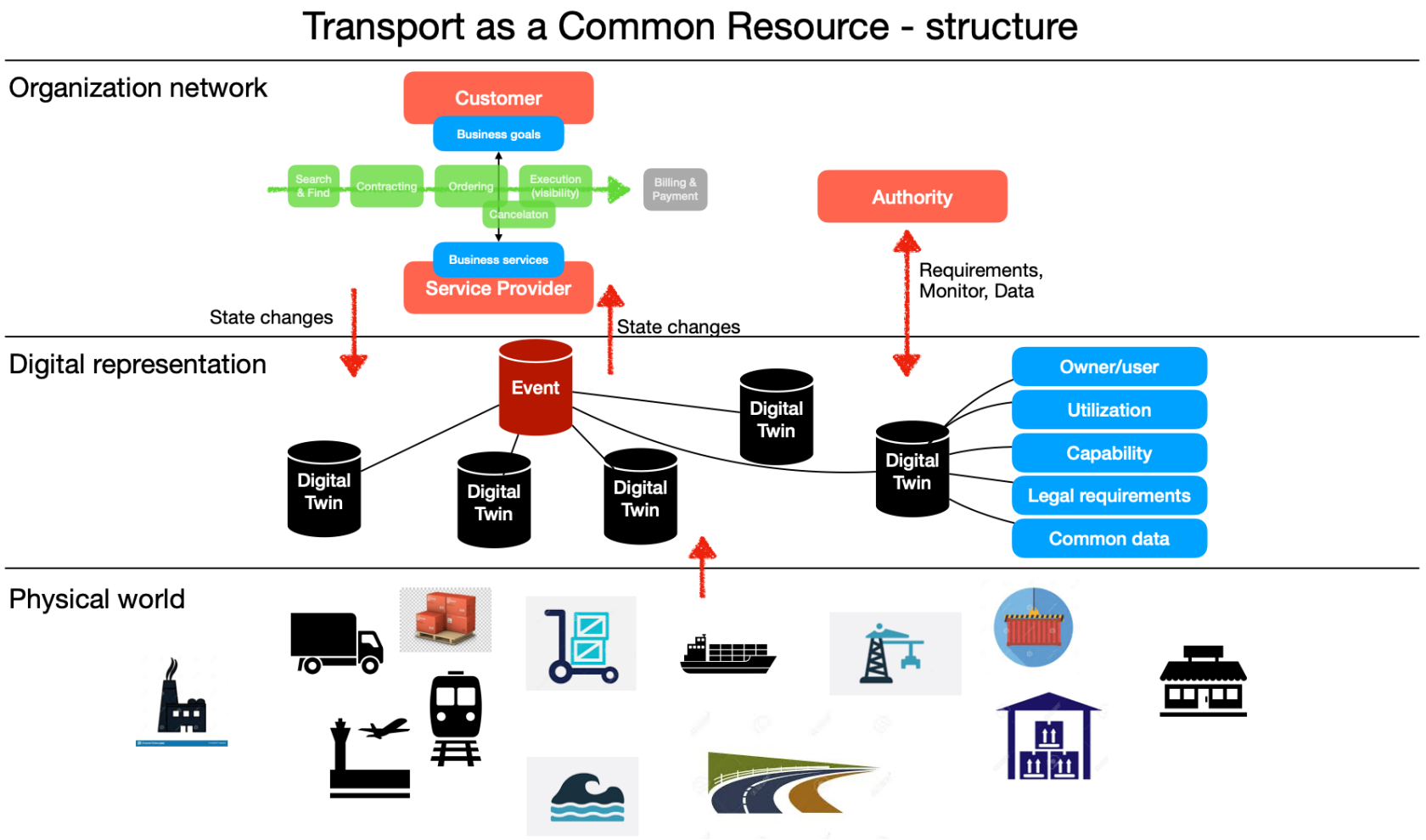
ID provider | Identity Broker | Authentication → Identity

Technical

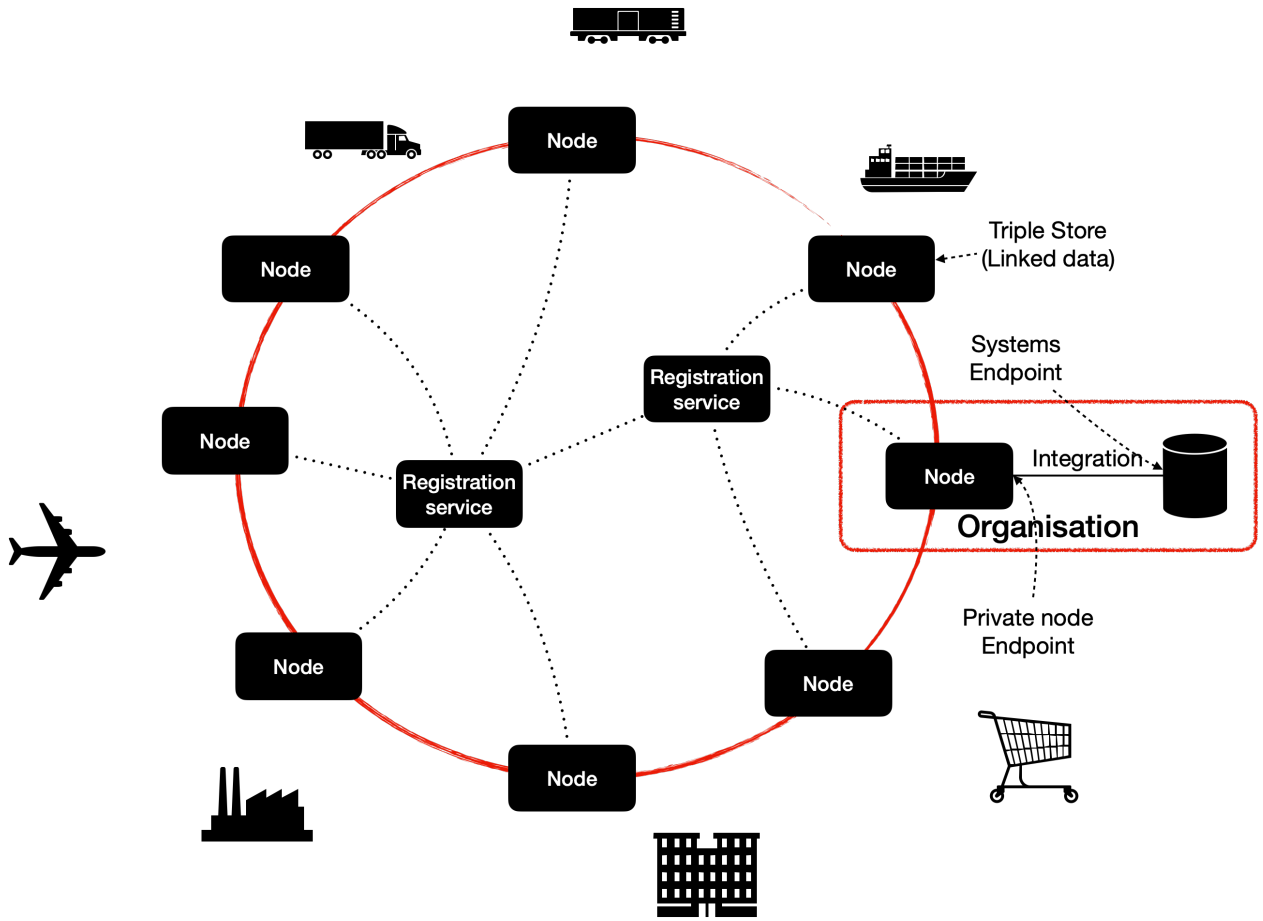
Data sharing solutions

Log | Audit trail | APIs | Identity tokens, PKI certificates | End-to-end security

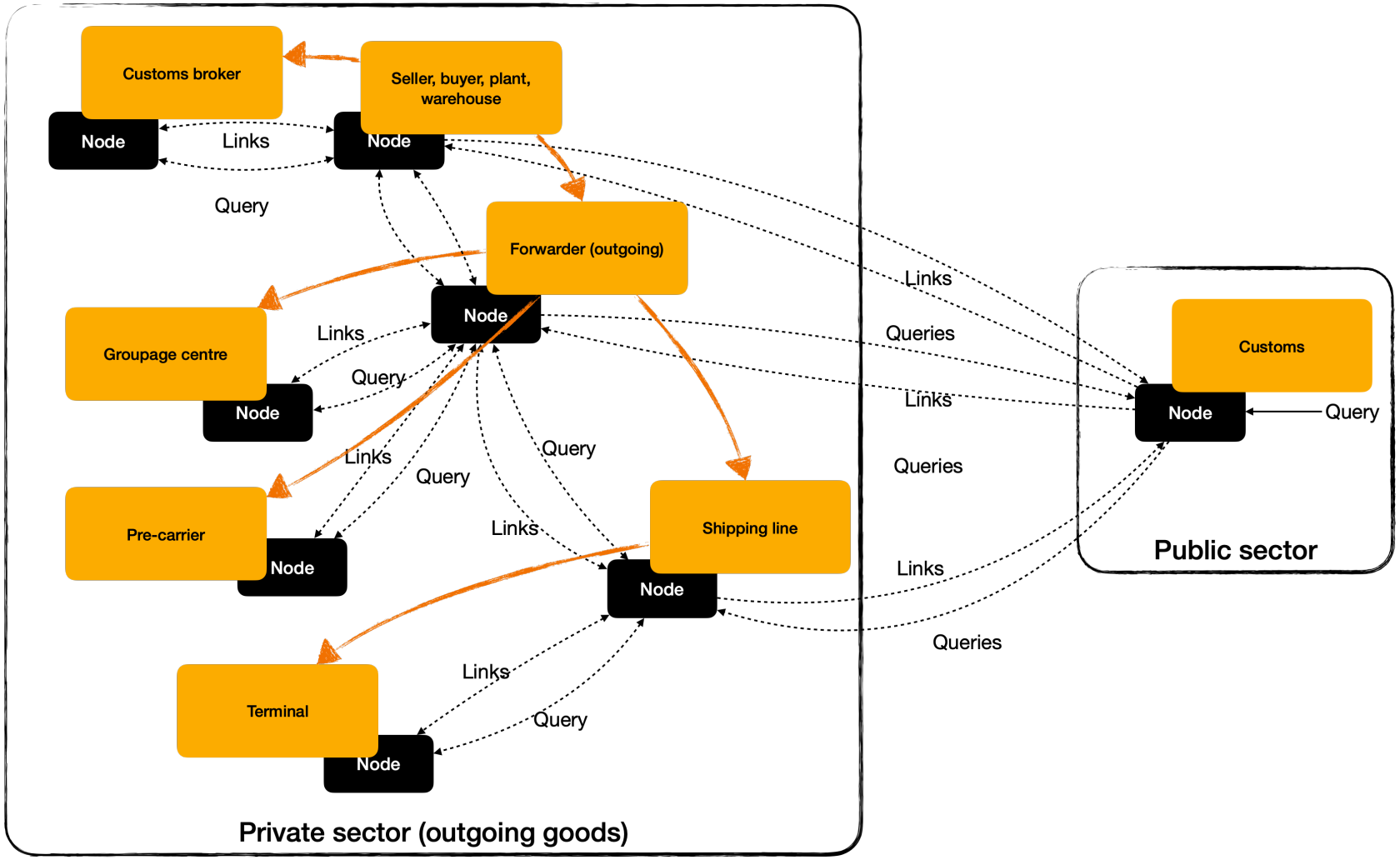
Real world vs digital world



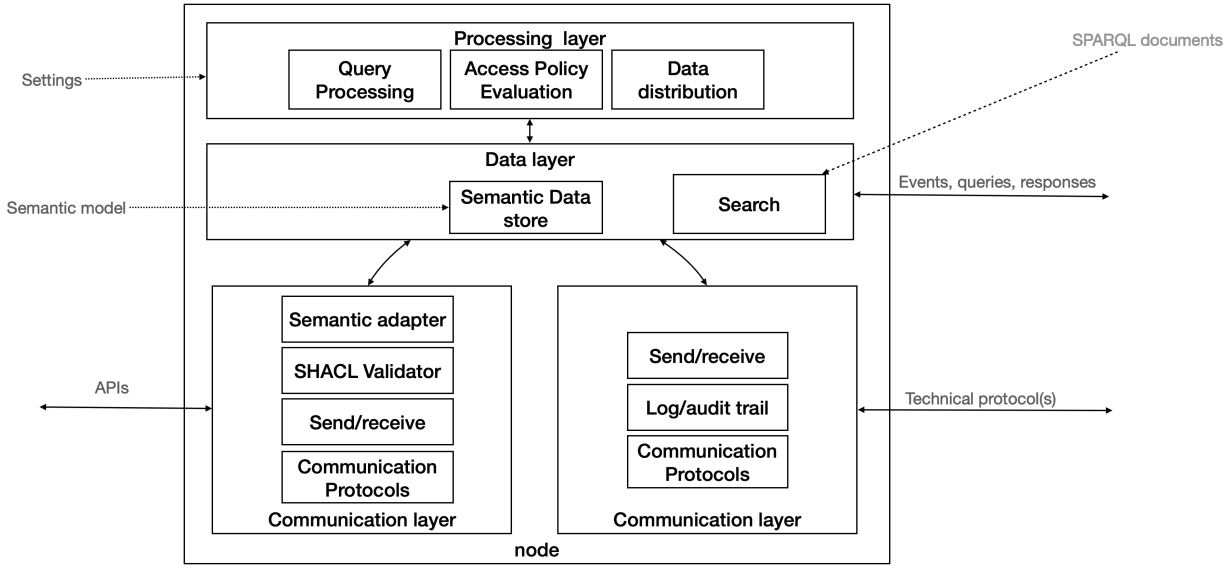
Network of nodes



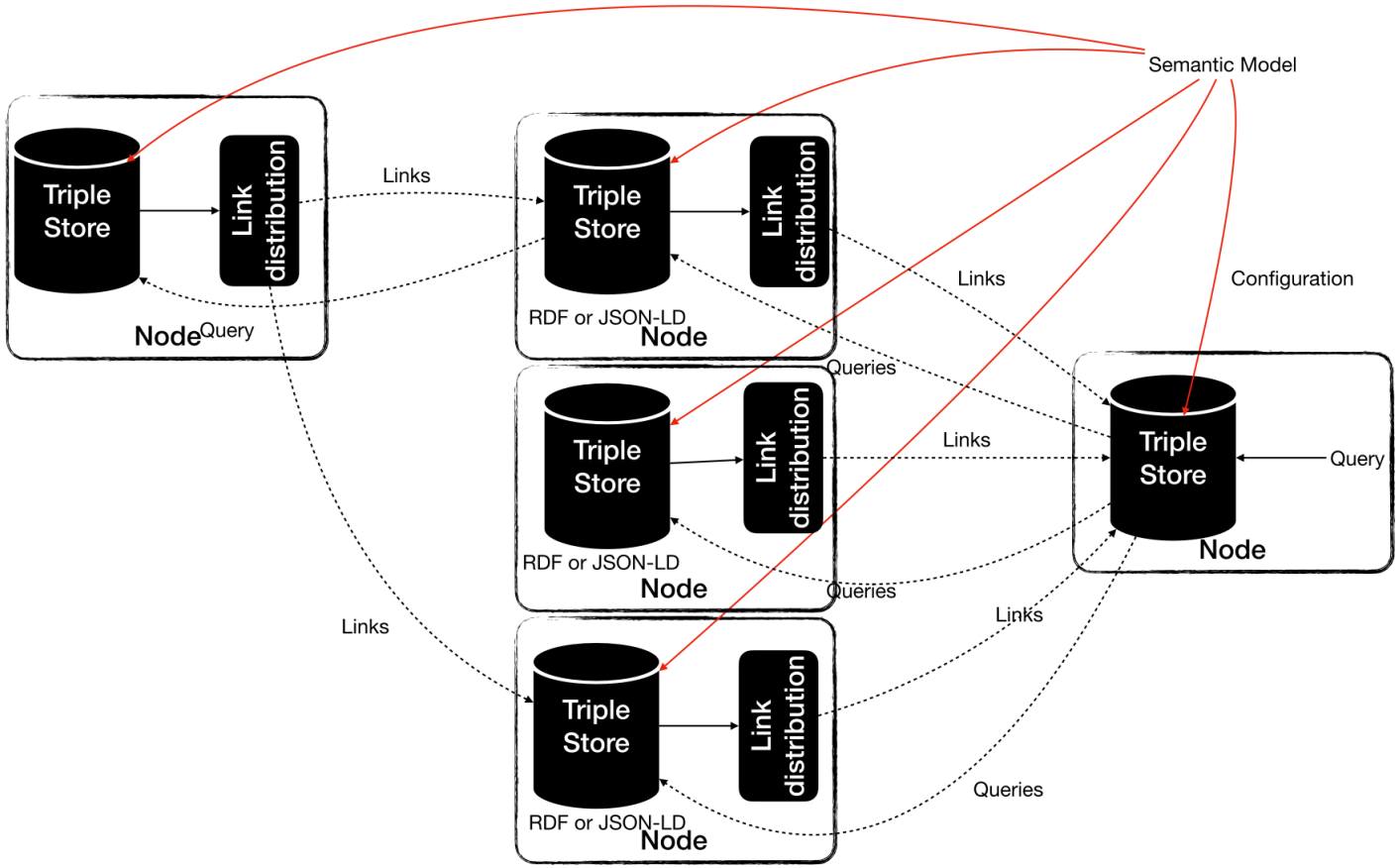
Network example

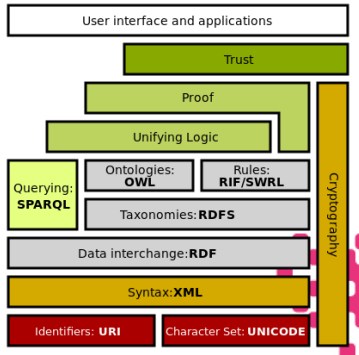


Functionality of a node

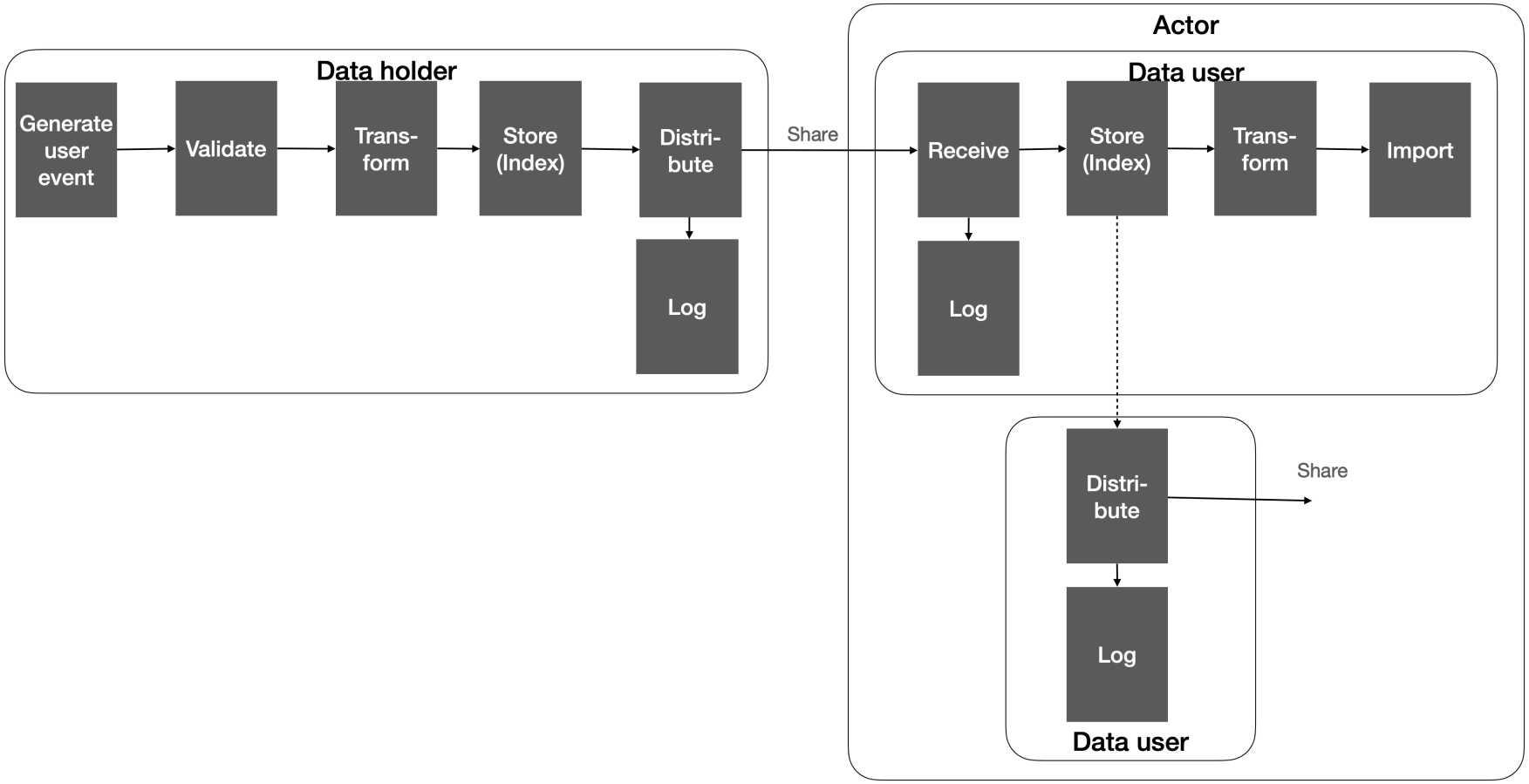


Network example (node perspective)

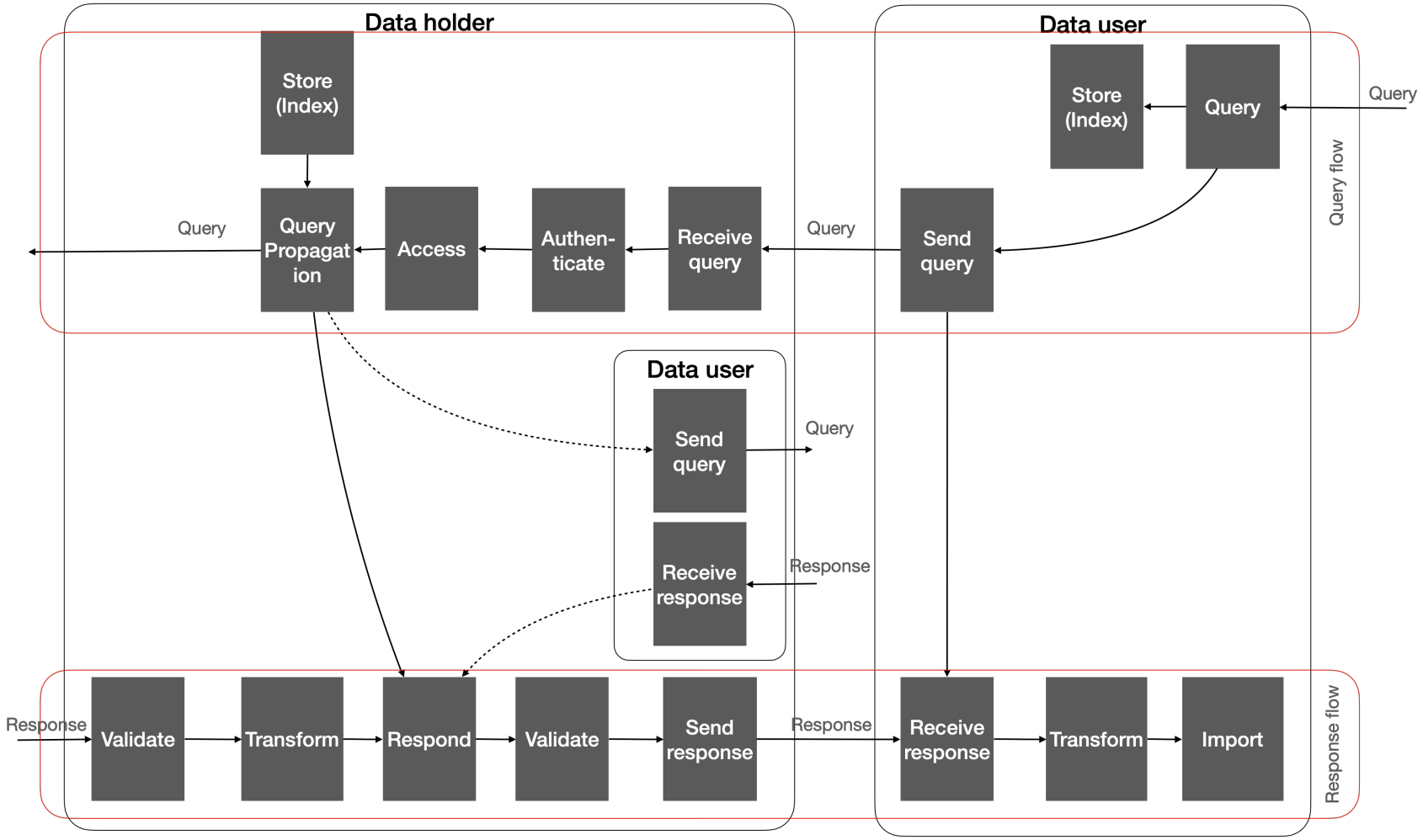




Sharing events pattern

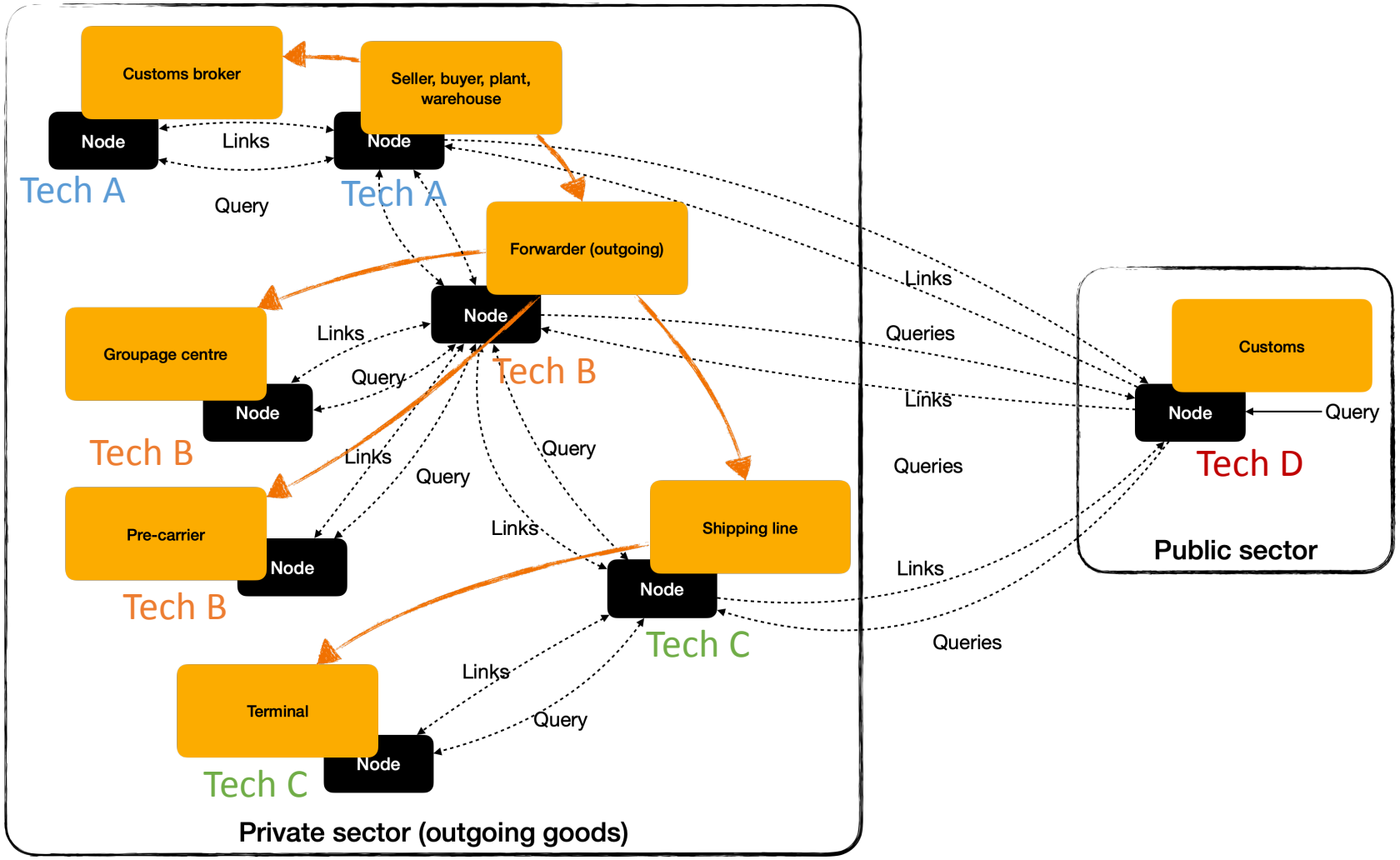


Data retrieval pattern

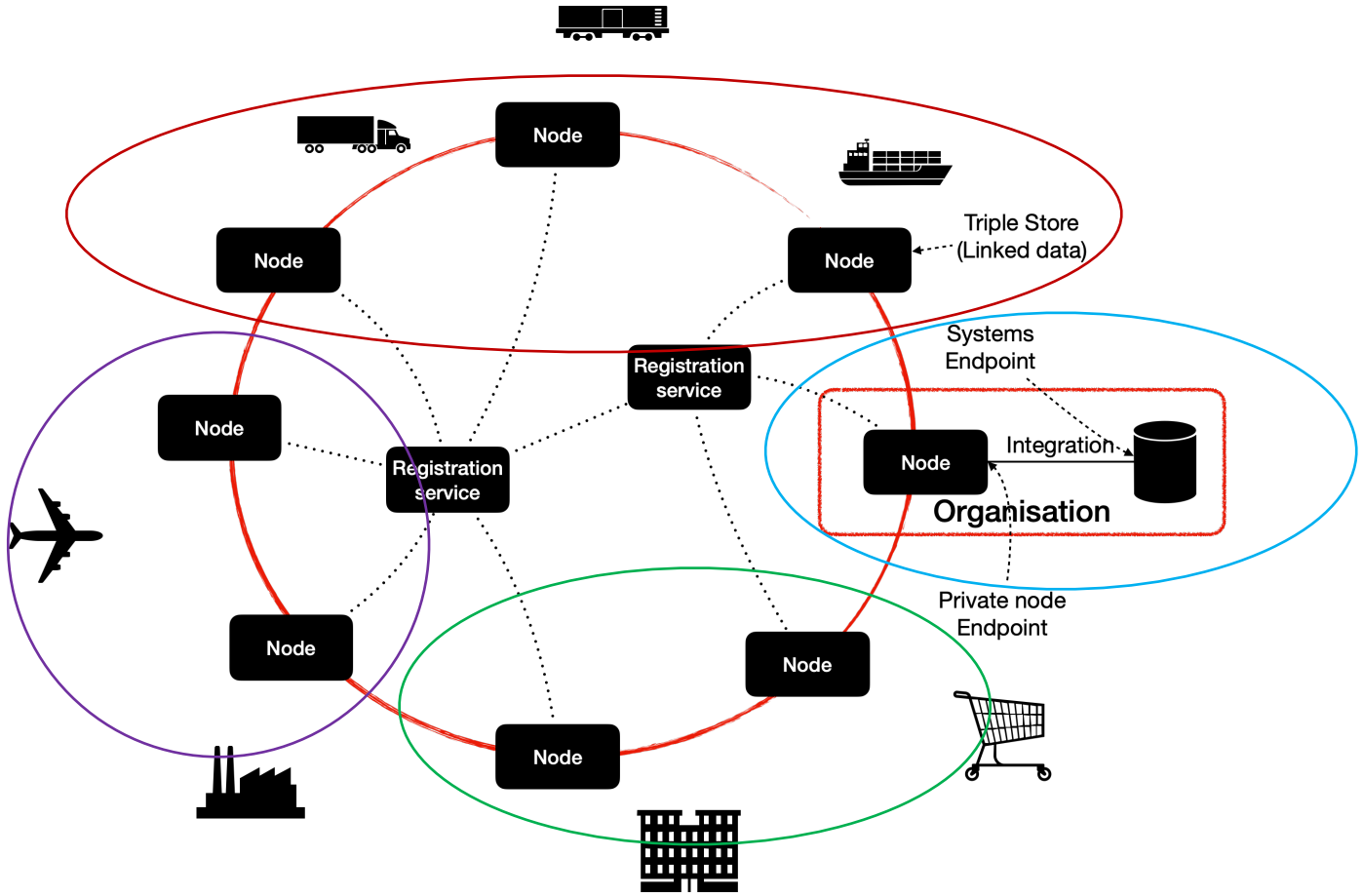


Living Lab experiences on implementing nodes?

Eco-system technology challenge



Eco-system identity challenge



THANK YOU – Questions?