

Future of Data Sharing

Federated Network of Platforms by DTLF

Federated Network of Platforms Data Sharing Scheme for Transport and Logistics

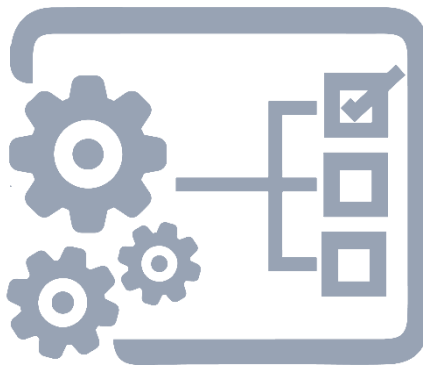
June 16, 2021 – International Physical Internet Conference

Dr. Phanthian Zuesongdham | Head of Division Port Process Solution| Hamburg Port Authority

Data – Holy Grail of Business Excellences



Insights

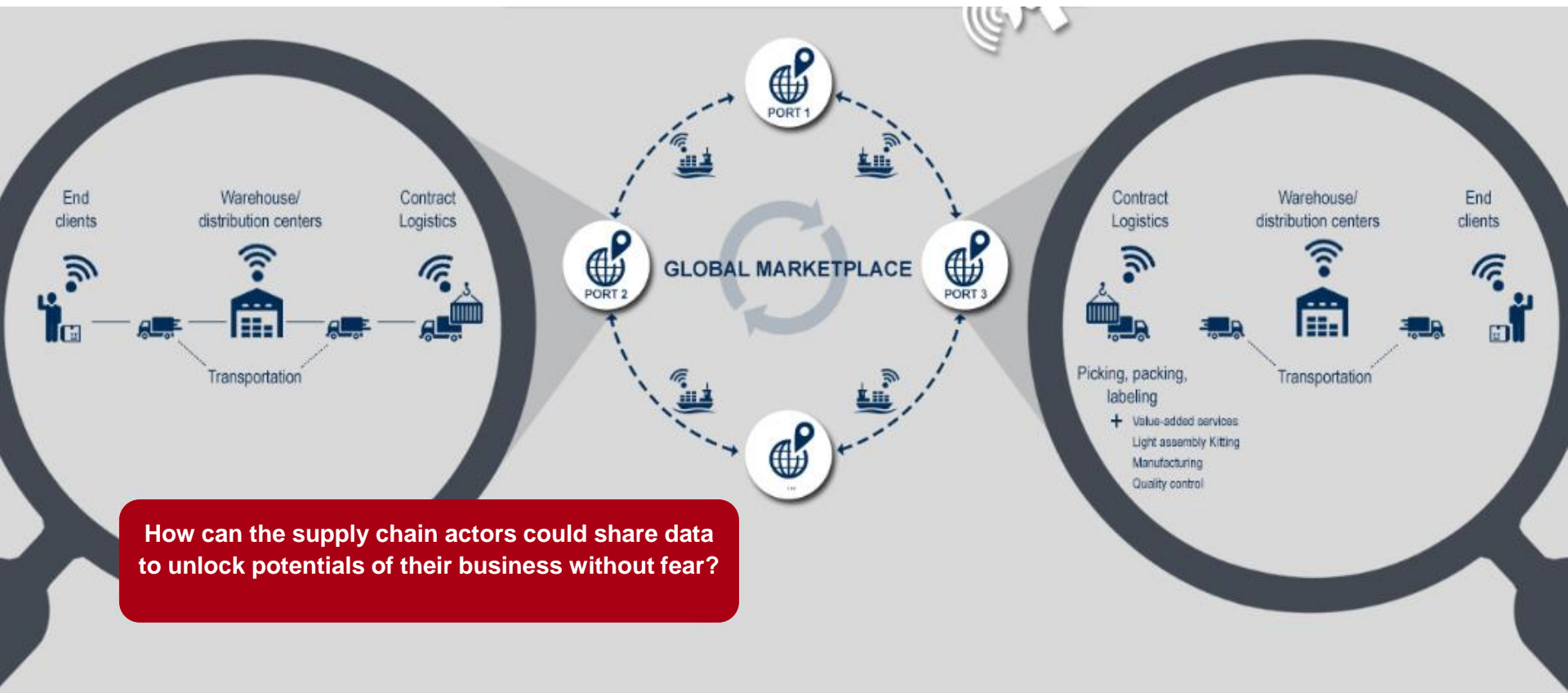


**Improvement of
Processes & Services
Or
New Businesses**



Targeted Communication

Digitalisation of logistics and transport = Synchronisation data & cargo flows



Federated Network of Platforms

HPA ist a member of
and actively works
within

**DIGITAL
TRANSPORT
& LOGISTICS
FORUM**

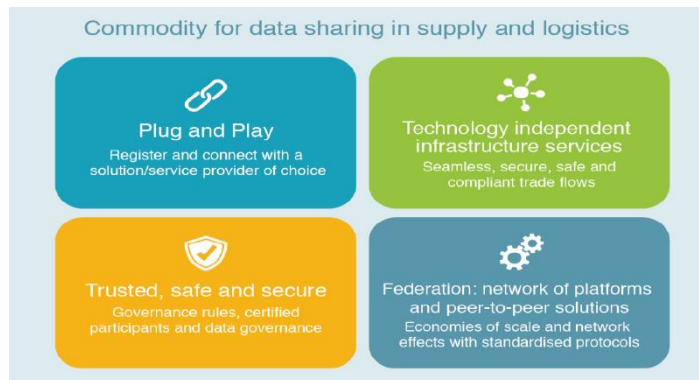
An initiative
of the



DTLF – Federated Network of Platforms

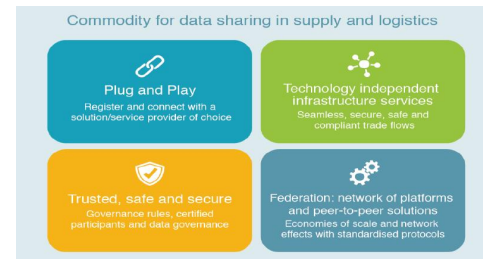
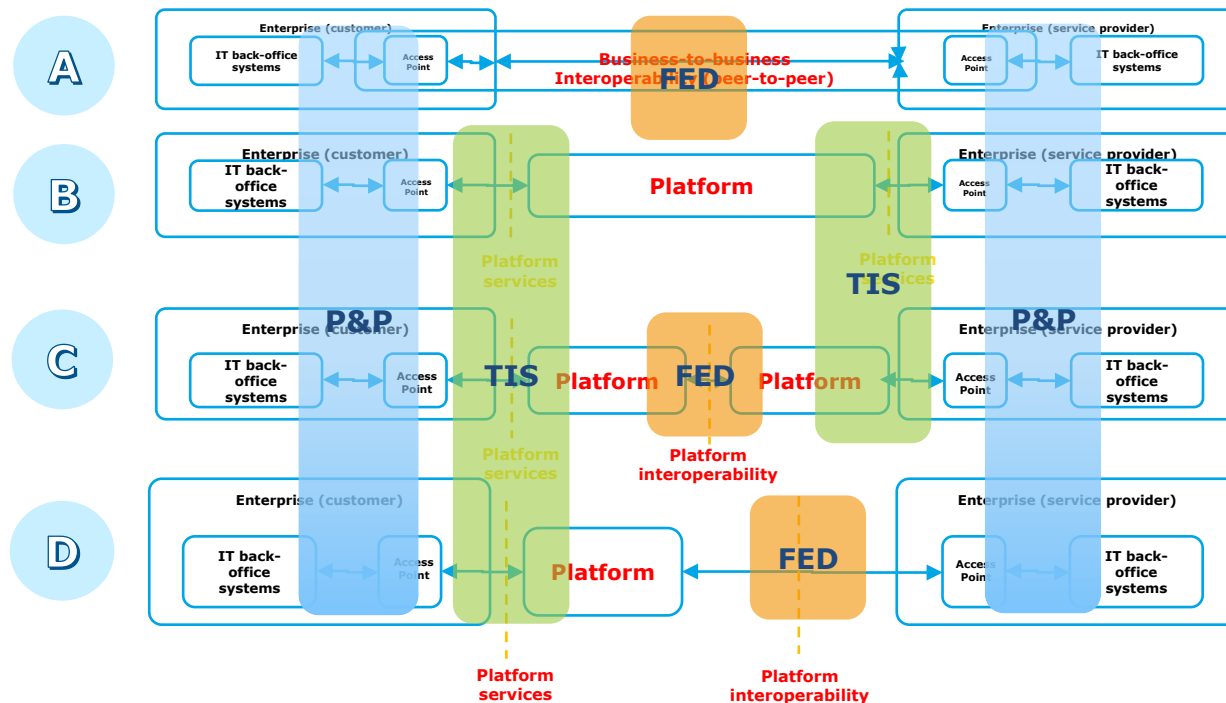
Common grounds for Data Sharing in multimodal logistics

- One basic cross-modal **data semantics**
- To be adopted (specialized) and implemented by
 - ✓ each mode of transport
 - ✓ logistics customers (supply chain stakeholders)
- Migration path by **supporting existing implementations** ('standards support')



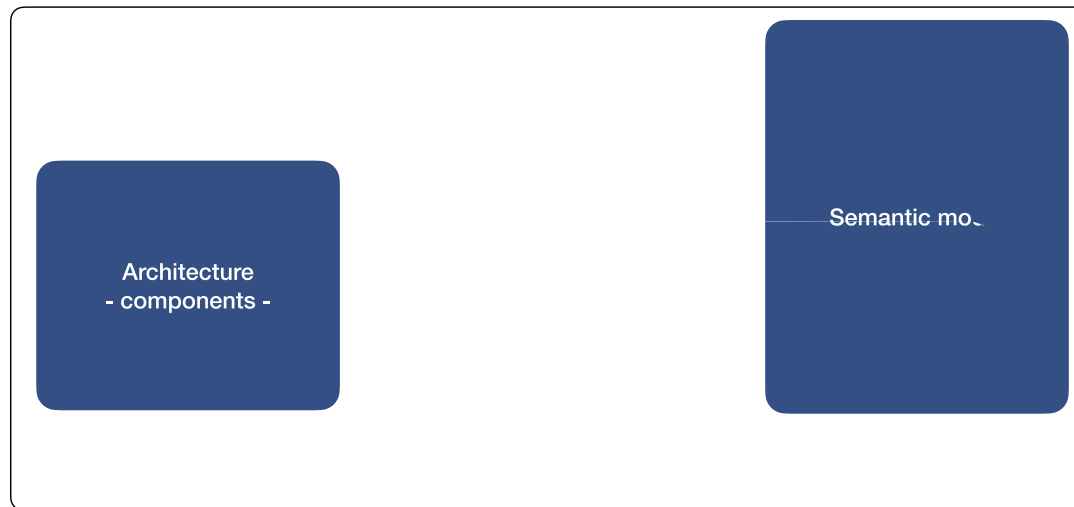
DTLF – Federated Network of Platforms

Implementation Options and the DTLF Building Blocks



DTLF – Federated Network of Platforms

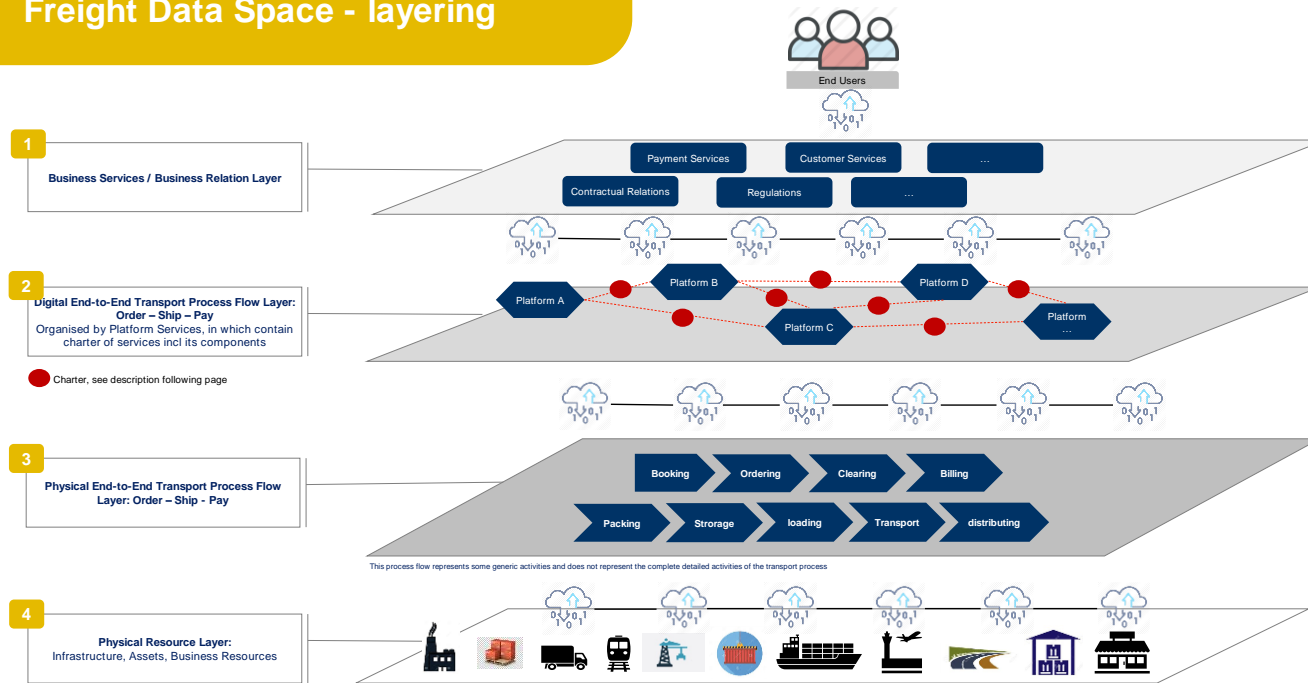
Overall Approach



DTLF – Federated Network of Platforms

General Architecture

Freight Data Space - layering



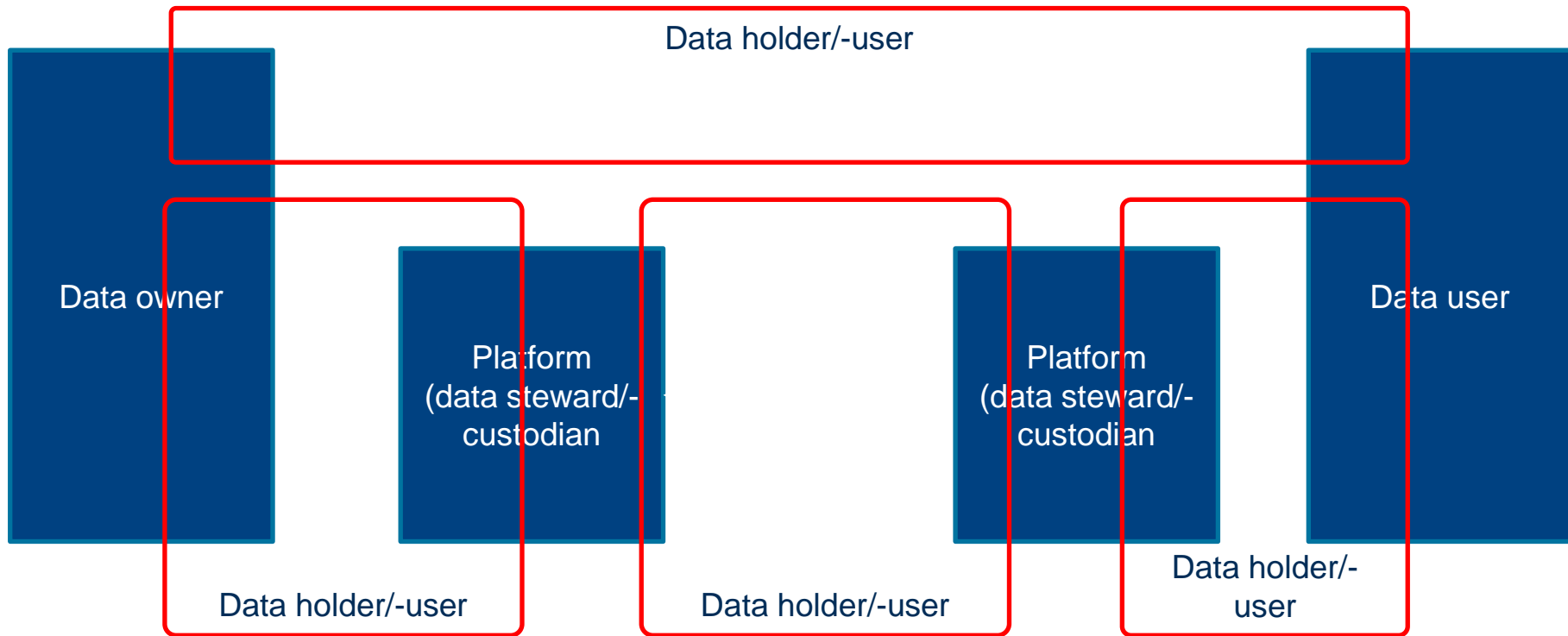
DTLF – Federated Network of Platforms

DTLF Schema comprises of

- **Semantic model** for multimodal freight and logistics
- **Technology Independent Services**
- **Regulations and data access** policies
- **Interfaces** between components of the architecture

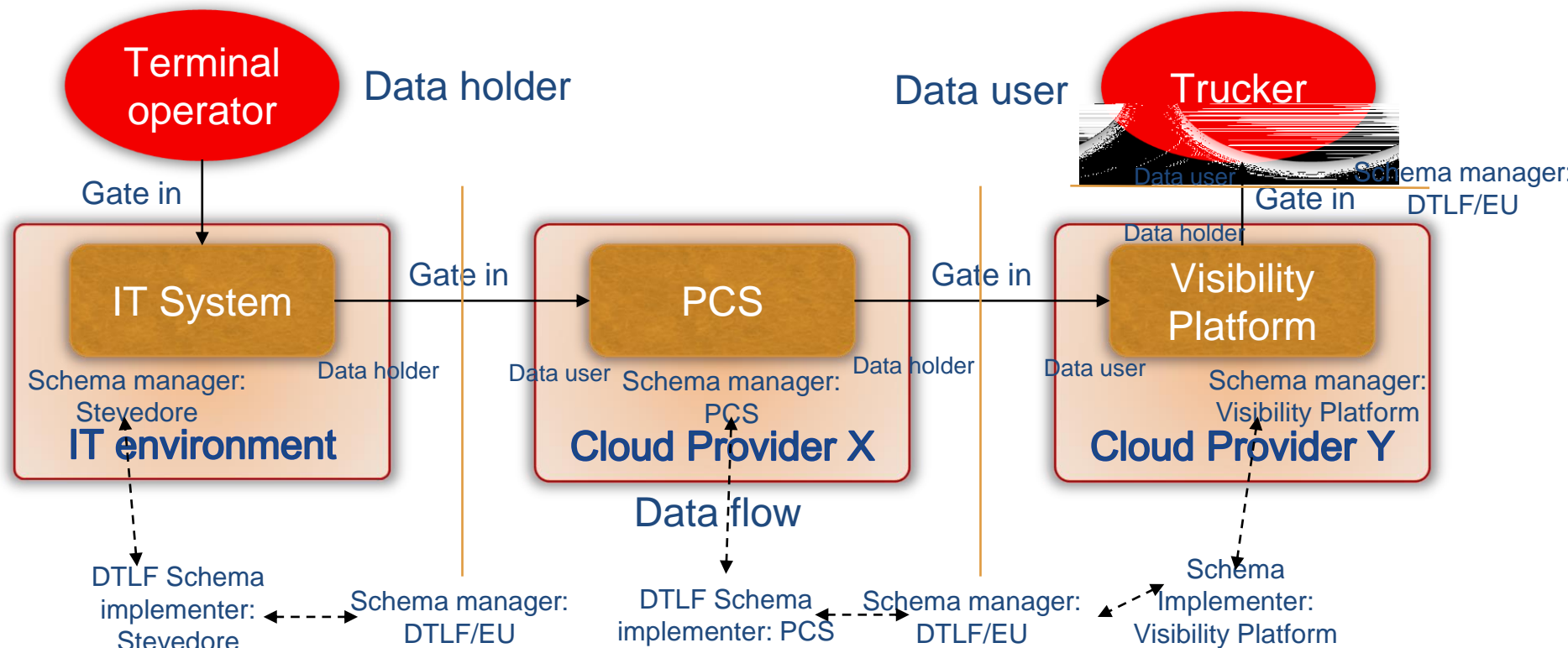
DTLF – Federated Network of Platforms

Roles in Data Sharing (acc. EU Data Governance Act)



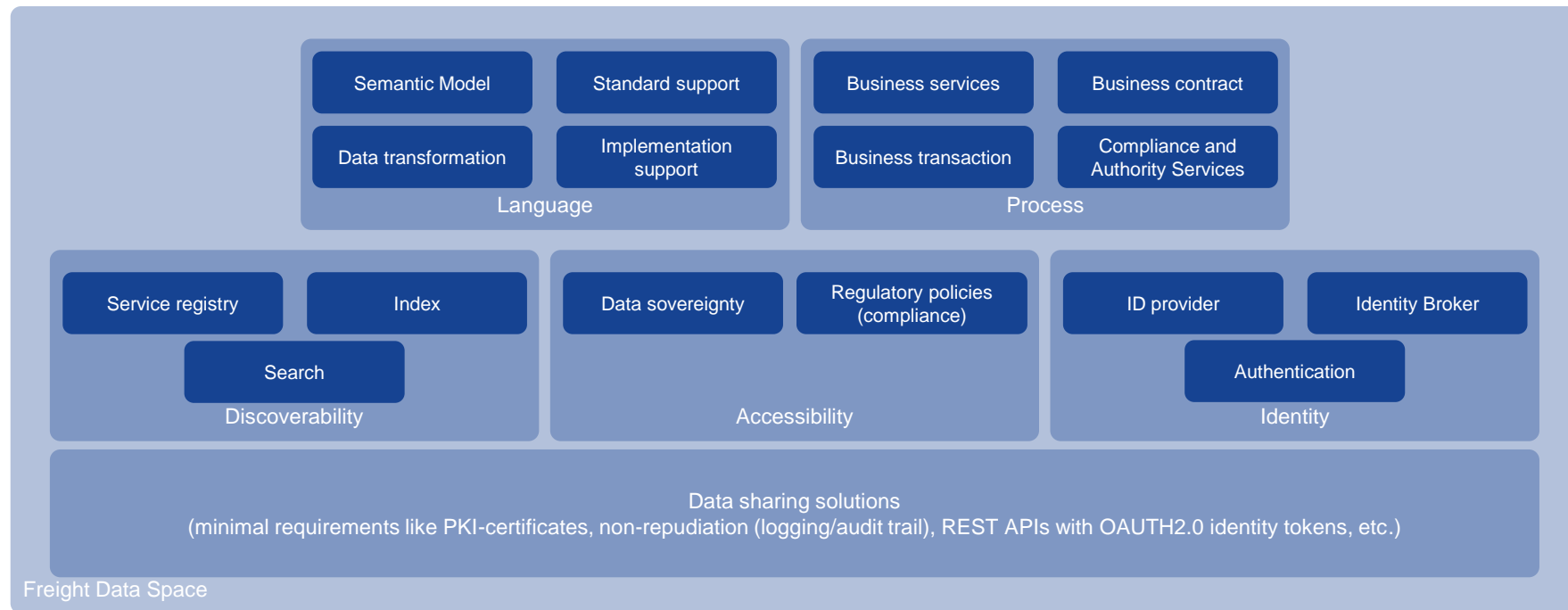
DTLF – Federated Network of Platforms

Roles in DTLF Schema: An Example



DTLF – Federated Network of Platforms

Technical Architecture Concept



We are in the middle of this journey – What next?

Governance Structure and procedures of the DTLF Schema

Technology Independence Services

Detailed specifications of the interfaces

Plug and play – organisational, functional, and technical

Standard support and migration

CAP 

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Head of Division Port Process Solution

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