Closing SolidLab
Launching Trustflows

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SYTADEL: Trusted collaboration in multimodal logistics chains

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Met de steun van:

The root causes of transport inefficiency

Uncertainty

Interconnected supply chains cause cascading effects when disruptions occur

Limited visibility

Lack of an E2E view of the supply chain affect planning optimization or response to disruptions

Inability (or unwillingness) to collaborate

Technical or competitive restrictions limit otherwise beneficial collaborations
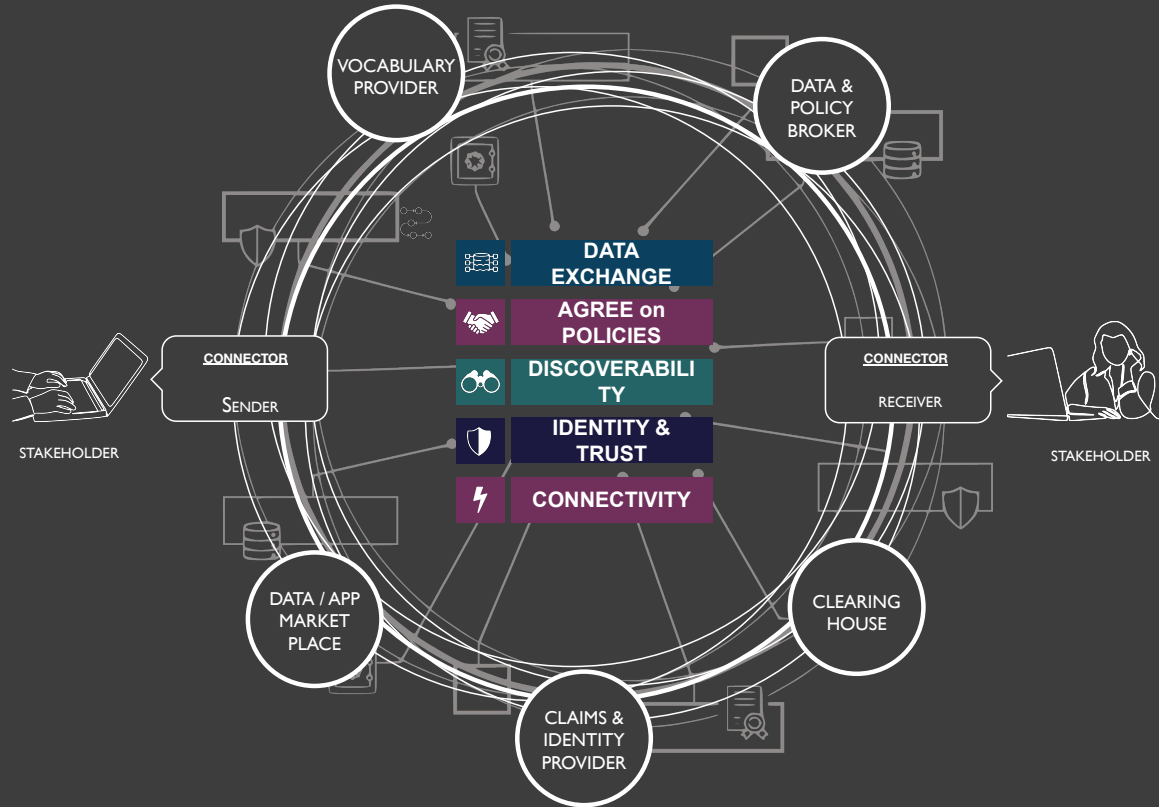
SYTADEL

What?

Applying the state-of-the-art on Data Spaces to the context of logistics multimodal transport.

How?

- Trusted & automated data exchange between stakeholders
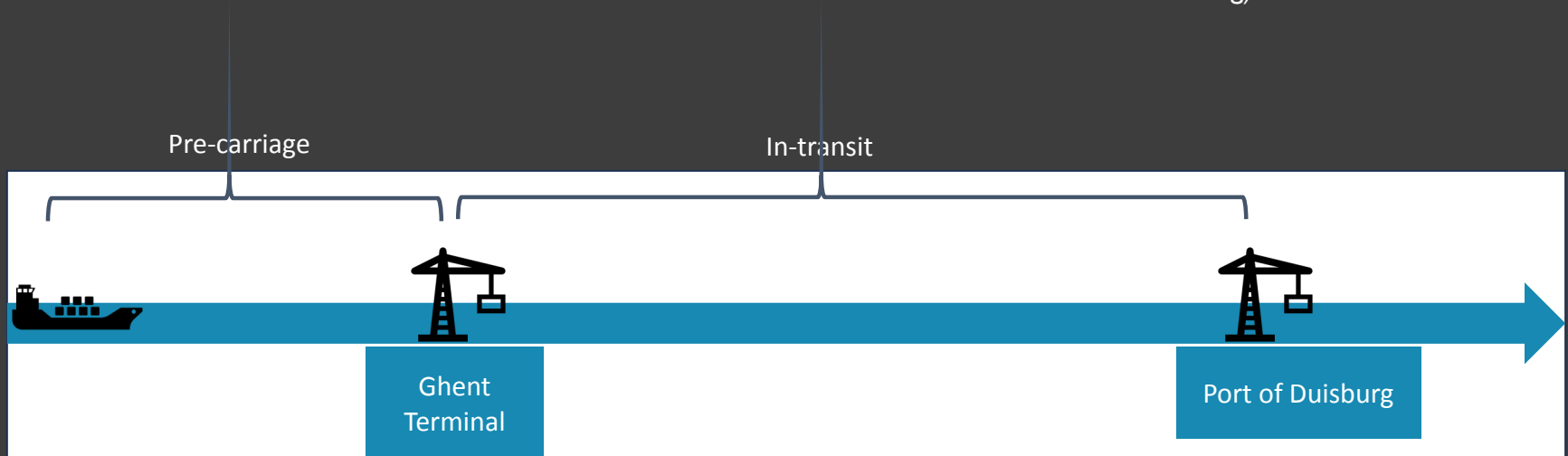- enabling real-time value added services

Data ecosystem of a transport process

Data Owners:

- Shipper: Cargo & shipment details
- Transport Operator(s): **nomination of vessel + skipper**
- Skipper: (GDPR sensitive) **Location Data**
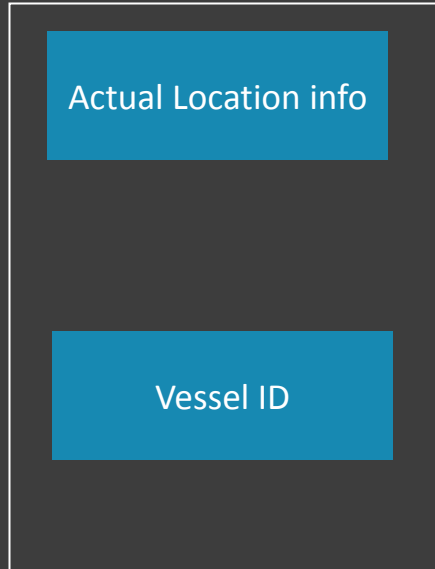- Terminal operator: **Terminal planning**

Data consumers:

- Shipper (all vessels actively transporting shipper's goods)
- Transport Operator (all vessels they own + <u>active</u> charters)
- Skipper (own vessel)
- Fairway authority (all vessels on the waterways under control of De Vlaamse Waterweg)
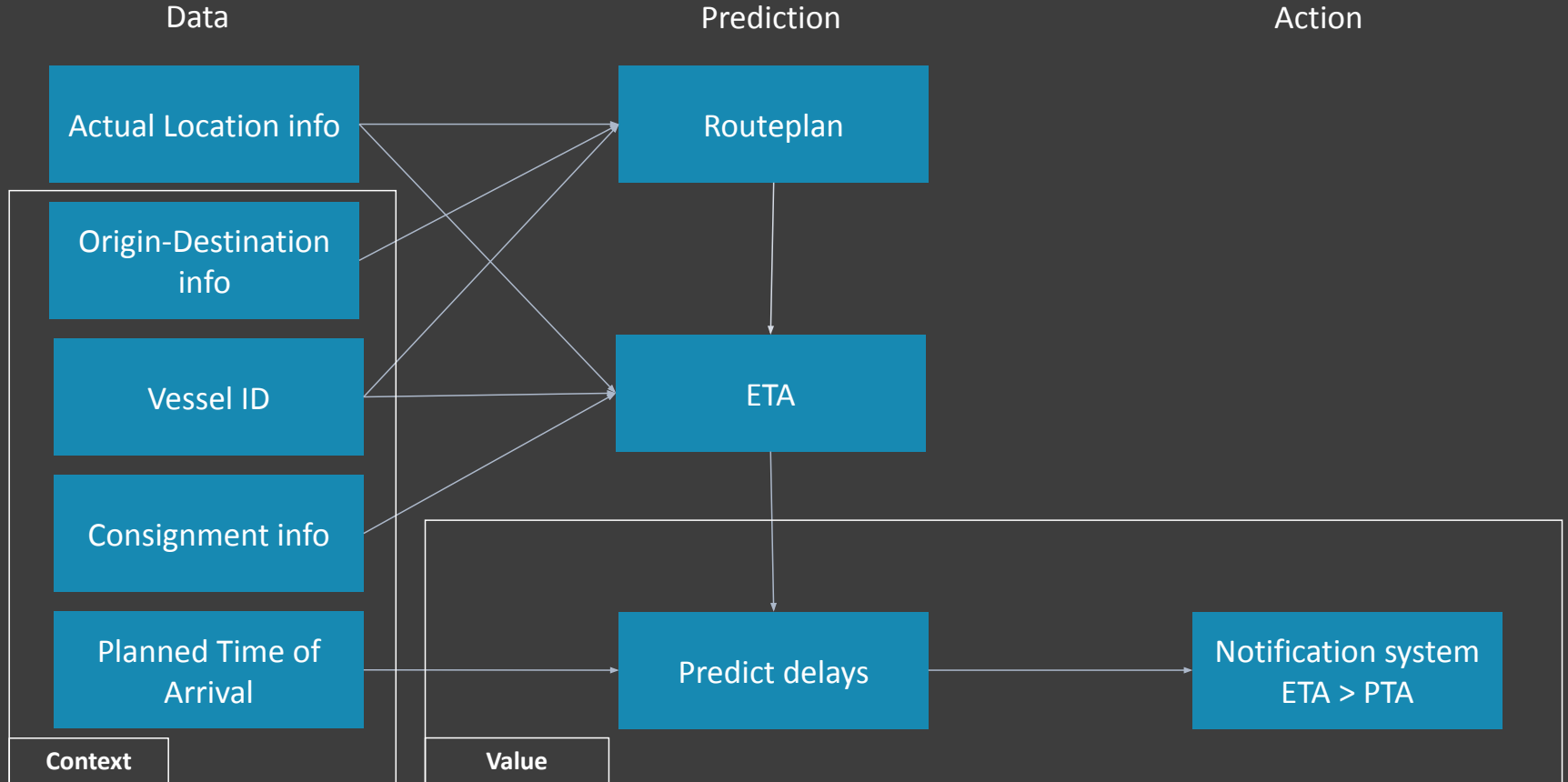
Pre-carriage

In-transit

Ghent Terminal

Port of Duisburg

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V1: Vessel location data sharing within the ecosystem
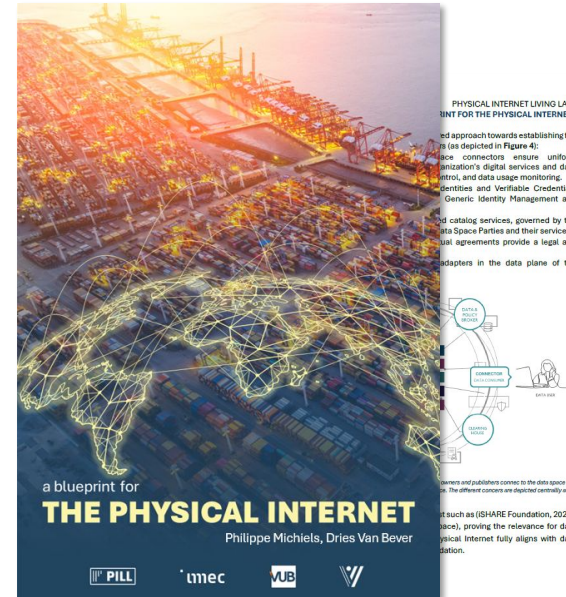
Data

Actual Location info

Vessel ID

Location data sharing based on policies

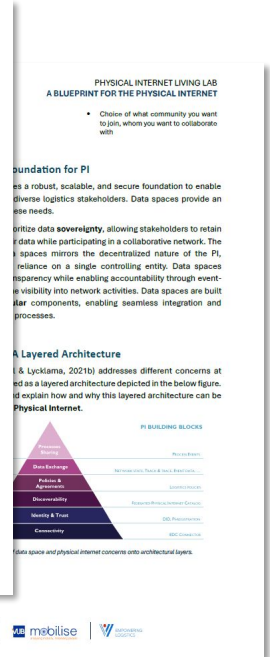# V2: From Data sharing to business value

Learnings

1. **The context of the logistics business process defines the involved ecosystem & the policy for data sharing**

2. **The focus on value-added service delivery took away the need to share GDPR sensitive data**

3. **To increase adoption of DS tech, consider Data Sharing as a by-product of (business) process sharing.**

https://www.imec-int.com/sites/default/files/2025-03/A-Blueprint-for-the-Physical-Internet.pdf