



Ministerie van Infrastructuur  
en Waterstaat

# The future of digitalisation in logistics

## Changing landscapes

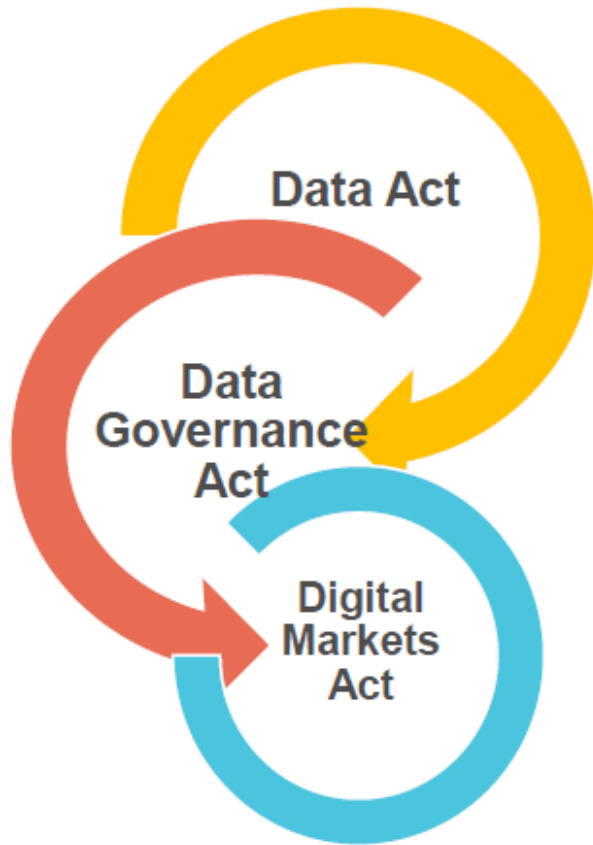
Jon Kuiper

Ministry of Infrastructure and  
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# European Data Strategy Objectives

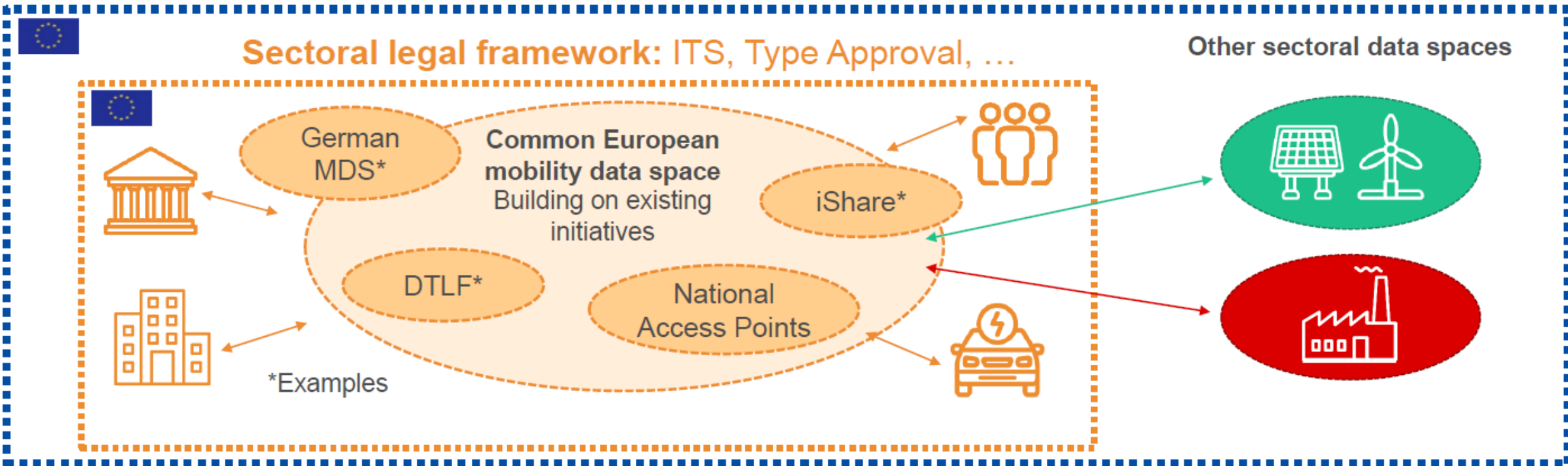


Aim
Ensure <b>FAIRNESS</b> in the allocation of data value among the actors of the data economy
Ensure <b>TRUST</b> in data transactions (Political agreement reached within 1 year from the adoption of the proposal)
Tackle imbalances caused by the <b>MARKET POWER</b> of gatekeepers



# The implementation of the EU Data Strategy

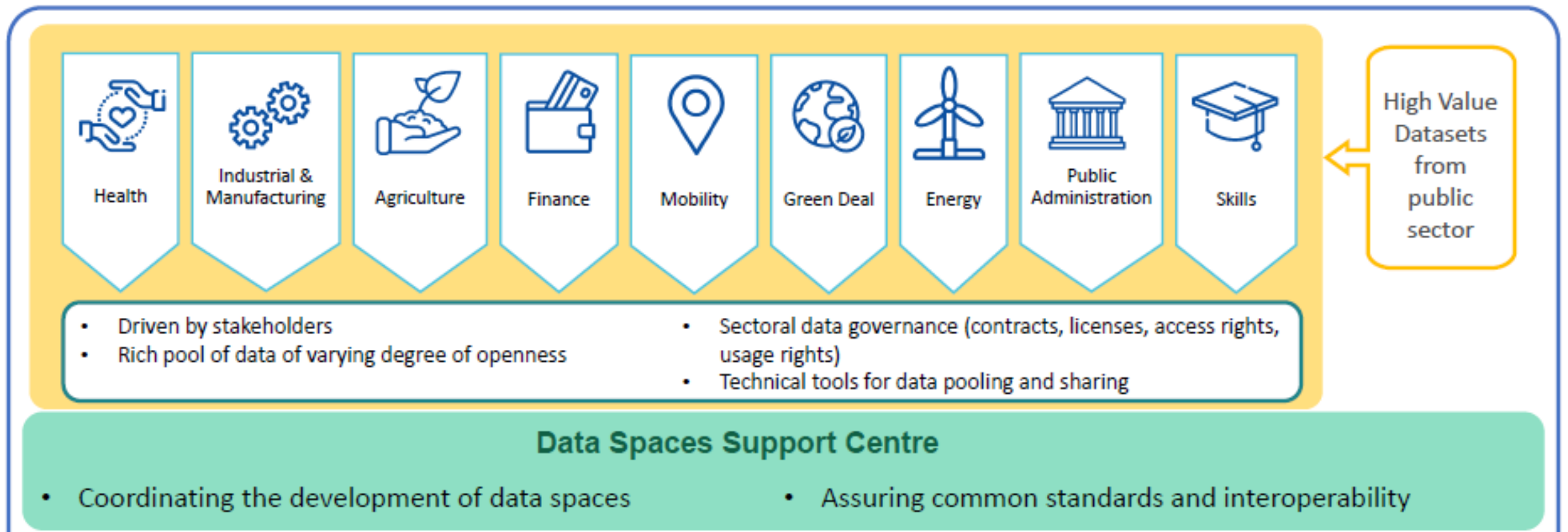
**Horizontal legal framework:** Digital Markets Act, Data Governance Act, high-value datasets, Data Act, ...





# Data spaces in various domains

## Common European data spaces





# Leveraging the momentum

Centre for the Fourth Industrial Revolution Japan  
**Developing a Responsible and Well-designed Governance Structure for Data Marketplaces**  
BRIEFING PAPER  
AUGUST 2021

WORLD ECONOMIC FORUM

Study on technological and economic analysis of industry agreements in current and future digital value chains

Data for Common Purpose Initiative

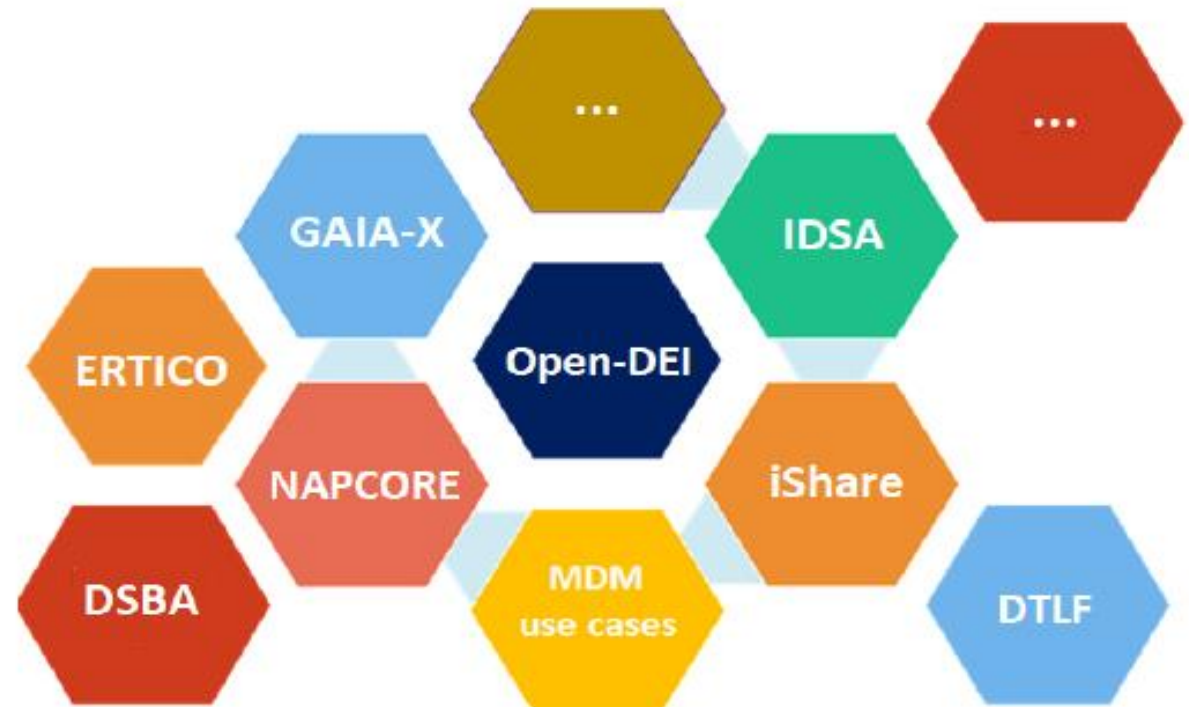
November 2021, the report of the Open-DEI Task Force

DMSP: A key governance component

**Design Principles for Data Spaces – Position Paper**

Data space experts team up to define for the first time cross-sectoral and across initiatives the fundamental design principles to build data

## Ongoing data spaces initiatives across Europe





# Example of benefits of a common European mobility data space (EMDS)



Optimise cross-border transport of goods and logistics



Facilitate cross-border multimodal travel planning and booking, encouraging greener alternatives



Unified information on electric vehicle charging infrastructure at EU level



Allow scaling up at European level of innovative mobility services benefiting users (e.g. smart parking, travel recommendations) or authorities (e.g. traffic monitoring and prediction)



# The Dutch strategy in this EU landscape

- > Actively support and manage this transition to a new digital world
- > As datasharing is not only a market activity but also an enabler for more efficient B2G processes
- > Cross border, work with other member states





# Implementation of EU regulations

## eFTI

- > Freight information needs to be accepted by government when offered electronically
- > Forces governments to think about new digital processes
- > Implemented in 2025





# Expected impacts of eFTI Regulation implementation

## Investment costs

➤ EUR 4.4 billion\*

➤ EUR 268 million\*

## Benefits

- ✓ EUR 20-27 billion administrative cost savings\*
- ✓ EUR 75-102 million work hours\*\*
- ✓ More efficient and innovative logistics services

- ✓ Risk-based checks → More efficient & smart enforcement
- ✓ Better statistics → Better targeted policy making

- ✓ 1300+ tones CO2 emissions savings\*
- ✓ 180 000 – 900 000 trees saved\*\*

SMART

\*Total EU28, 2020-2040 (2018 prices)

\*\* Annual



# Implementation of EU regulations

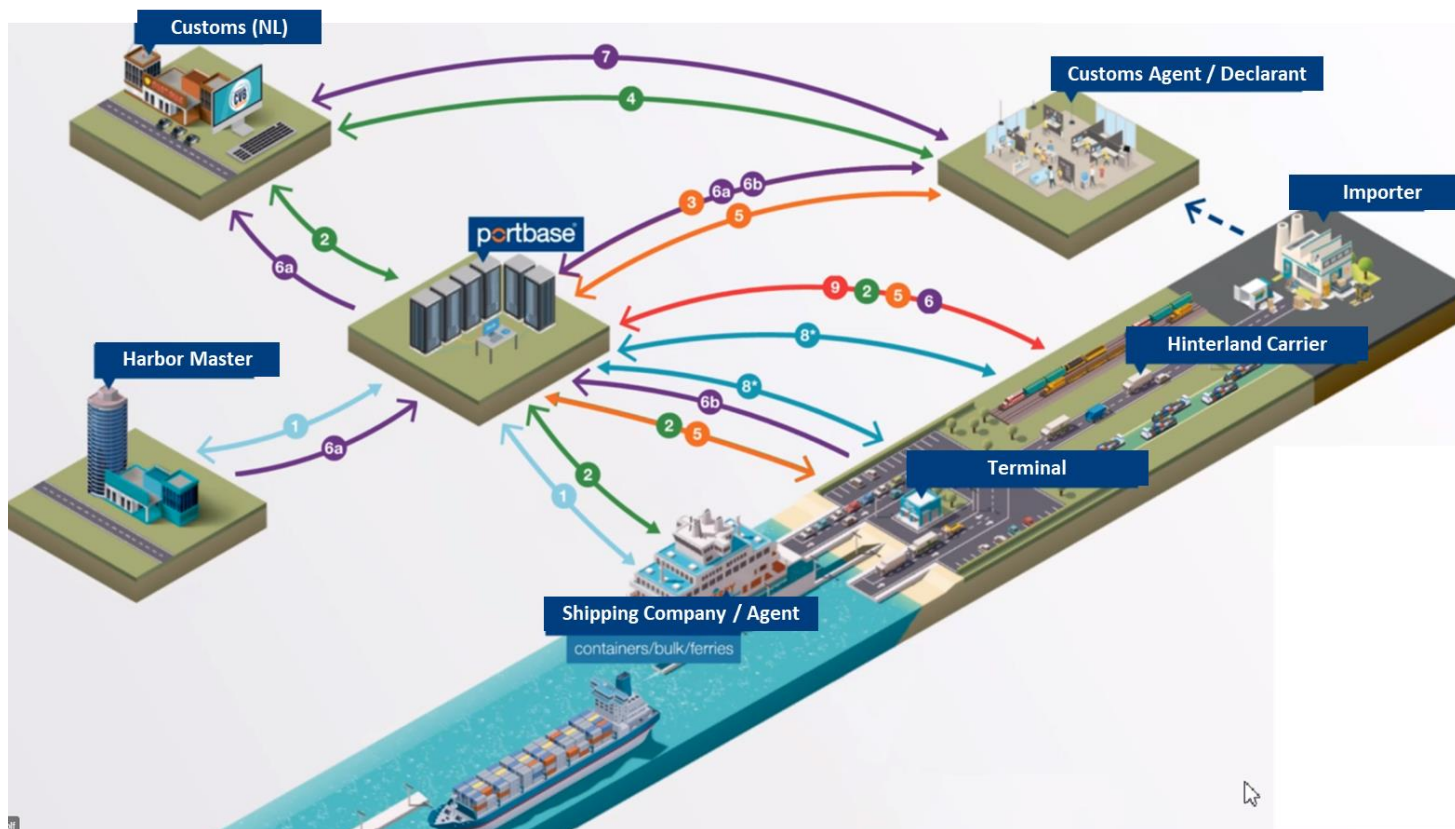
## EMSWe

- > European Maritime Single Window environment
- > Forces governments to think about new digital processes and integration with business processes
- > Implemented in 2025





# An example of integration of govt and business processes



The Portbase data-hub provides real time information to all stakeholders in the supply chain

Enabling:

- Optimization of transport flows, vessel-terminal-hinterland carriers
- Seamless customs processes optimizing throughput and enabling differentiation in inspection processes



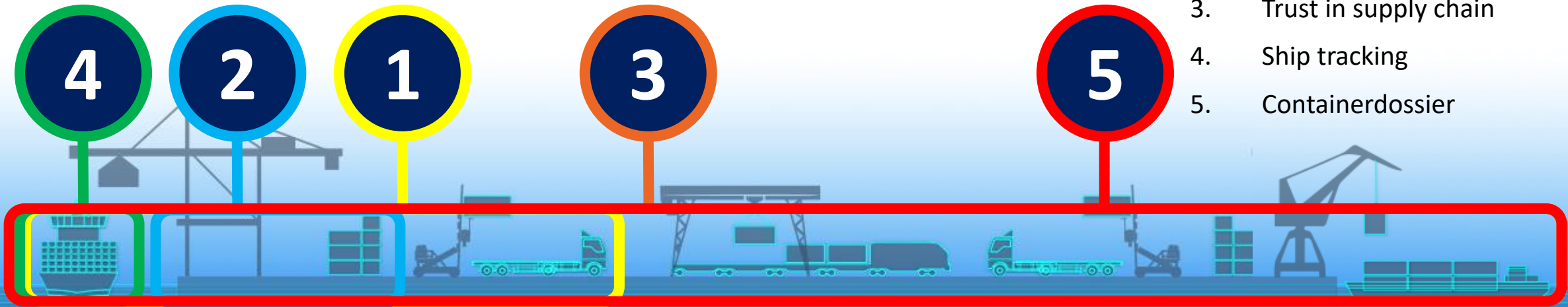
# Digital Infrastructure Logistics

- › The Dutch government has funded a special program to create a Basis Datasharing Infrastructure (“Digital Infrastructure for Logistics”) in the Netherlands
- › This program finds its basis in the European Data Strategy and ambitions for a Mobility Data Space:
  - Realise interoperability between all parties in (international) logistics processes
  - Realise federative data sharing, based on mutual agreed standards



# Living labs

1. Container Tracking System
2. Release container
3. Trust in supply chain
4. Ship tracking
5. Containerdossier



## DIGITAL TWINS



# A strong alliance of companies and organisations has joined



500+ participants from  
ca. 350 companies and organisations



3 out of 4 organisations are private  
companies, about half of which are SMEs\*



Organisations from different industries, such as  
Mobility, Energy, Manufacturing, Finance etc.



Large Companies



SMEs



Start-Ups



Universities



R&D



Associations



Public Sector



Mentioned explicitly in the **European Data Strategy** and proactively addressing key issues.  
Exchange between Gaia-X and the **European Commission** to identify synergies between Gaia-X  
and initiatives and programs such as the **European Cloud Federation, CEF 2** and **Digital Europe**.

\*SME <500 employees

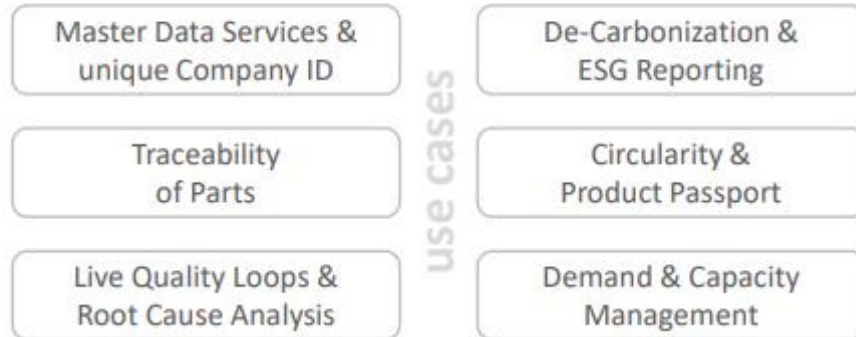


# What is new about Catena-X, compared to previous solutions

Catena-X doesn't replace existing offerings, it fills gaps and redirects forces towards a common **GOAL**.  
Catena-X enables all participants to collaborate compliantly within one shared global **DATA SPACE**.

## Common **GOAL**

Solve top industry problems together and now



... many more to come 2024

## Shared global **DATA SPACE**

- One **operating model** and **federated operating system** for the data space
- **Customer value journeys** for common GOALS enabled by open, multi vendor marketplaces



- Foundational services and **standards** built upon **OSS (KITs)** with dedicated **developer journeys**
- **Neutral governance**, incl. conformity assessment body



We simply call this „**NETWORK of NETWORKS**“

Enabling a data driven value chain collaboration for the first time



# Changing landscapes

- › Our digital world in Europe is changing fast
- › Governments will play, more than ever, an active role in the implementation of new digital processes
- › And market forces are actively building new infrastructures and networks based on the EU Data Strategy







# Thank you for your attention

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