

# Smart mobility in transport and seamless interconnectivity in logistics - FEDeRATED

Spanish Developments along the Mediterranean Rail Freight Corridor

9 June 2021

Roeland van Bockel



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

# The EU CEF FEDeRATED project

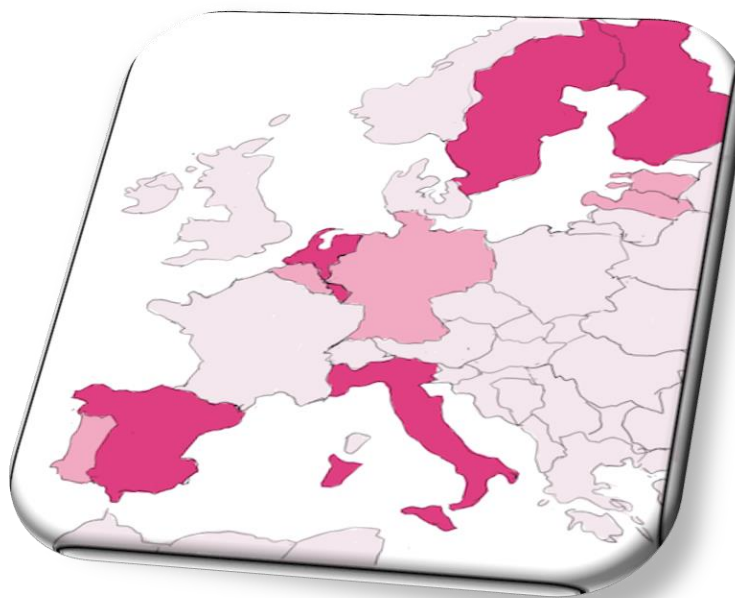
Future proof virtual infrastructure provision

15 PARTNERS (Public and private)

8 TEN-Corridors (21 LivingLabs)

2019 – 2023

**PHYSICAL  
INFRASTRUCTURE**



**VIRTUAL  
INFRASTRUCTURE**

**SOCIAL  
INFRASTRUCTURE**



**EU DIGITAL SINGLE MARKET - EU TECHNOLOGY (DATA) SOUVEREIGNTY - EU DATA SPACES**

# SHARE

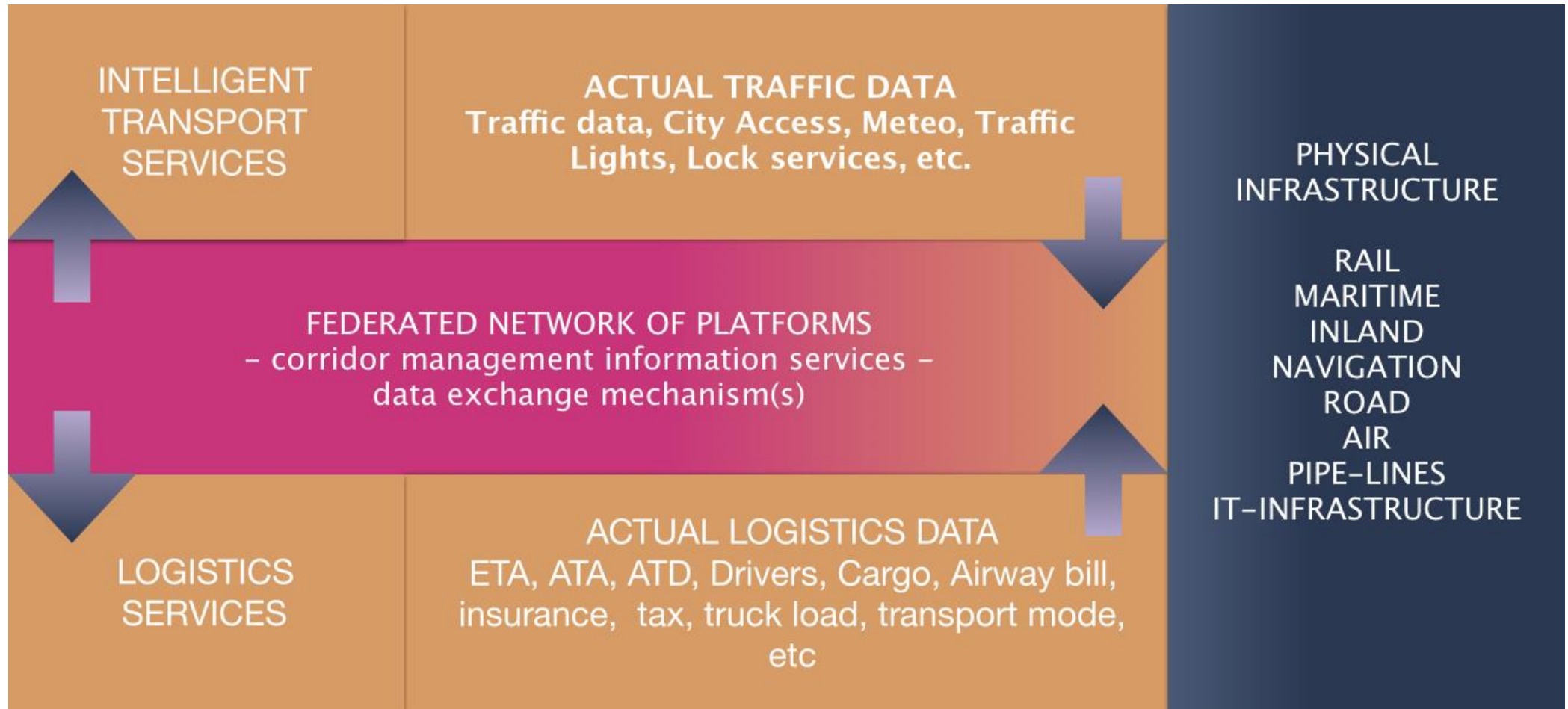
**SUPPLY CHAIN VISIBILITY**

**NEW SERVICES**

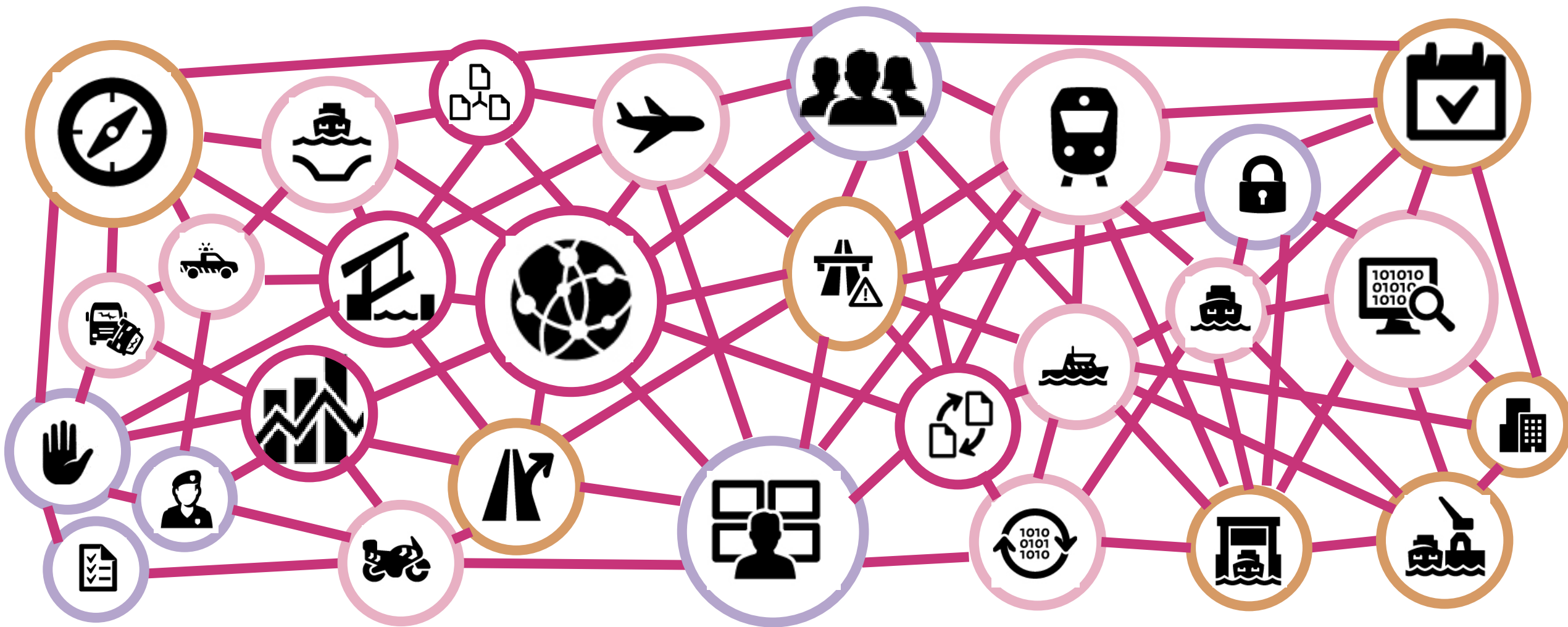
**SEAMLESS MULTIMODAL TRANSPORT**

**OPTIMIZED ASSET MANAGEMENT AND INFRASTRUCTURE USE**

# Smart mobility



# Future: we are all connected







MISMATCH ENABLERS & COMPETENCES

# BOTTLENECKS

DIFFERENT LANGUAGES

FRAGMENTED LEGISLATION

NO LEVEL PLAYING FIELD

# Matching competences with enablers vs

## COMPETENCES

- Why don't I know what my clients will order tomorrow?
- Where are my goods actually located?
- Why is it impossible to produce an actual sales report?
- Why does my planning always gets mixed up?
- Why is my forecast so poor?

## ENABLERS

- Can I connect with any IT platform I like?
- What data and stakeholders are trustworthy?
- Can I find the data I need to?
- What are the IT system requirements?
- How can I translate paper information into data?





# Competences - State of play digital readiness

## DIGITAL READINESS

### DIGITAL TRANSITION

### DIGITAL TRANSFORMATION

DIGITAL ADAPTION

DATA SHARING

TECHNOLOGIES

DISRUPTION

**Processes**

**EDI**

**Blockchain**

**Innovation**

**Customer value**

**API**

**AI**

**New markets**

**Strategy**

**Connectors**

**Internet of Things**

**New business models**

**Culture**

**Cooperation**

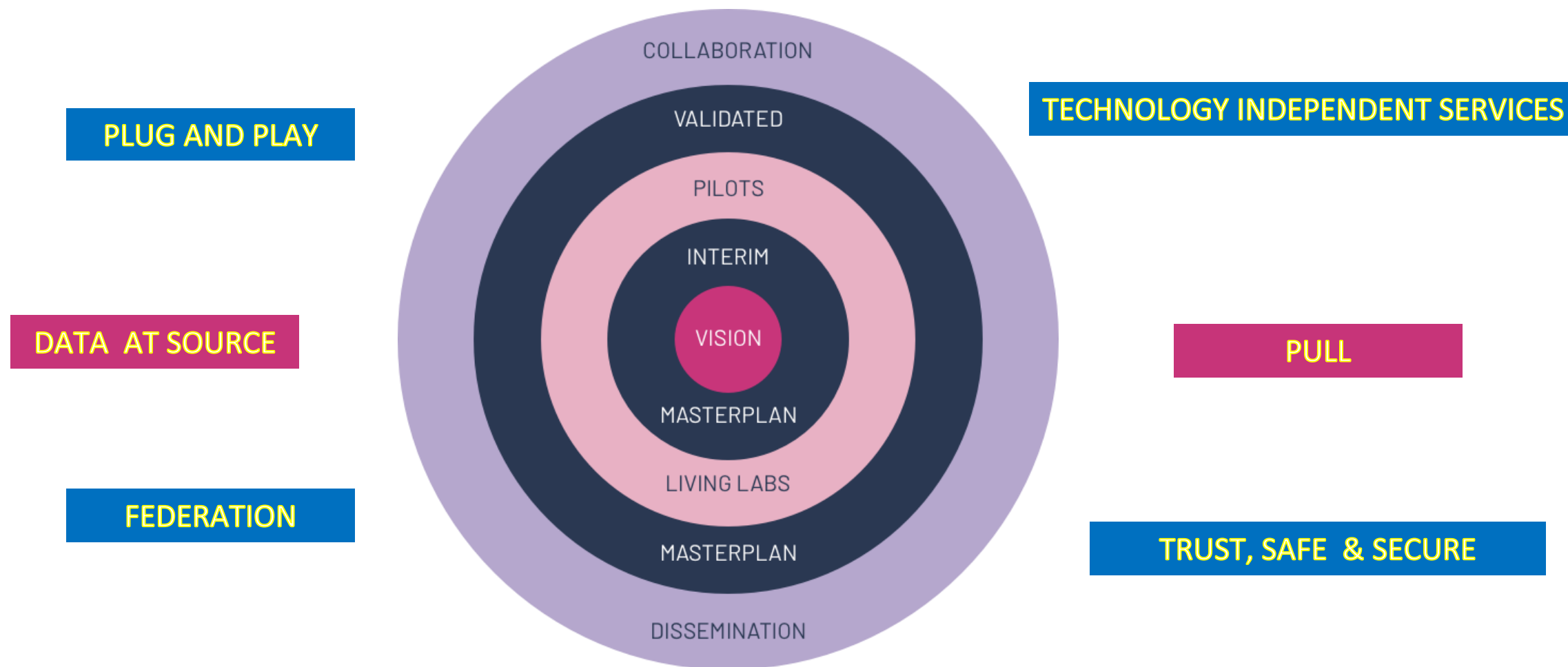
**eBusiness**

Back benchers 30%

Peloton 60%

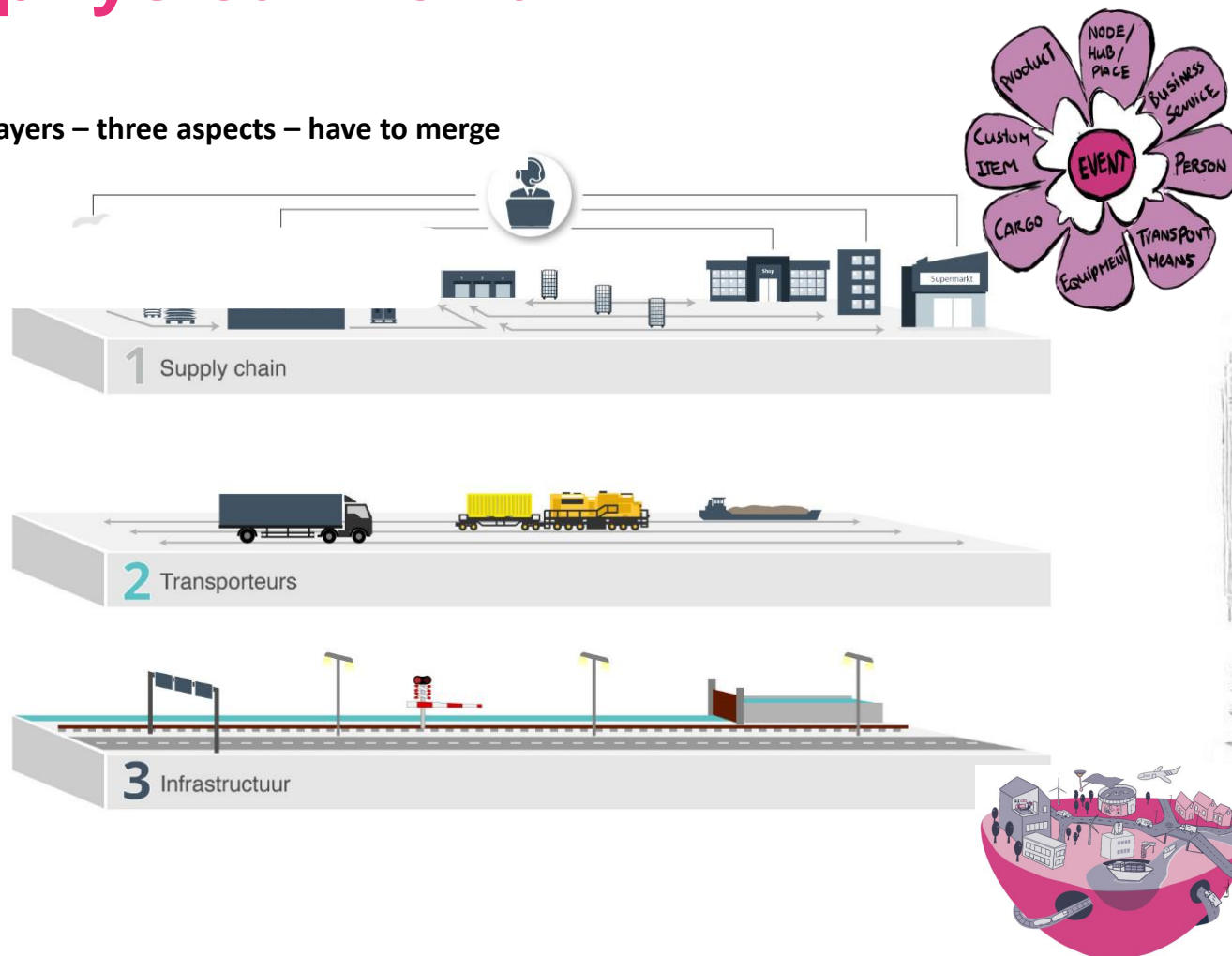
On top 10%

# How – EU DTLF conditions – 2019-2023



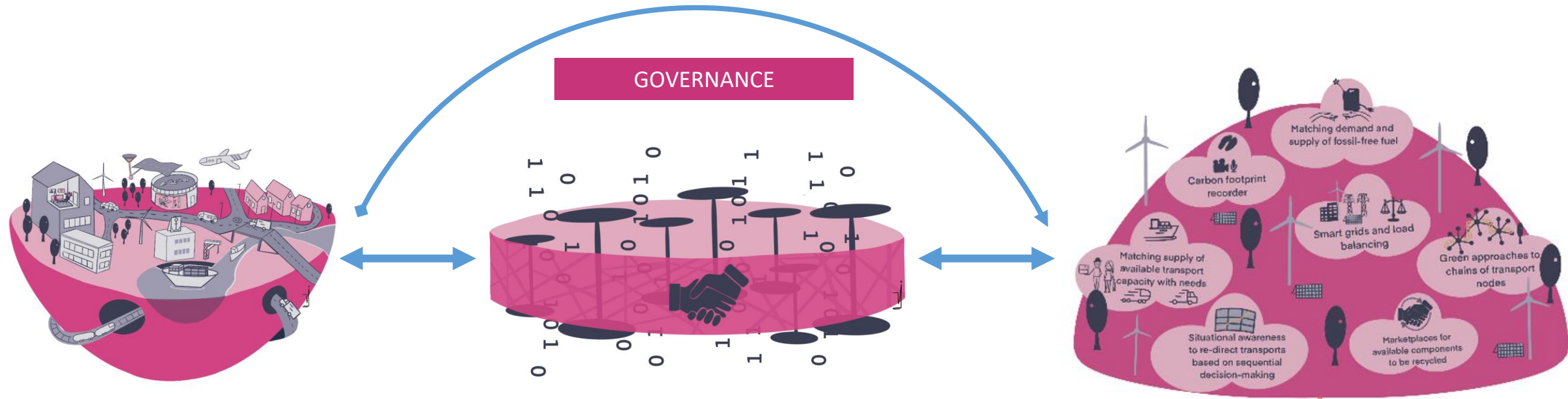
# From the physical world....

Three layers – three aspects – have to merge



# Into the virtual infrastructure, and back

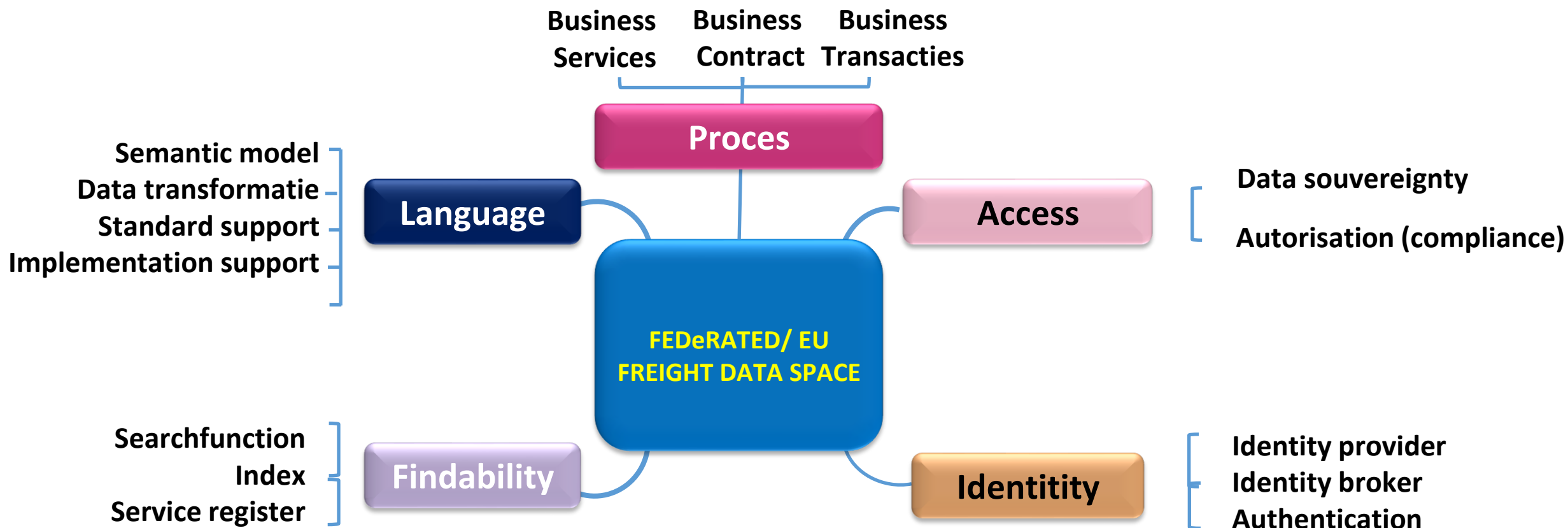
## CORRIDOR FREIGHT INFORMATION SYSTEMs



The architecture of intelligence is the architecture of connectivity

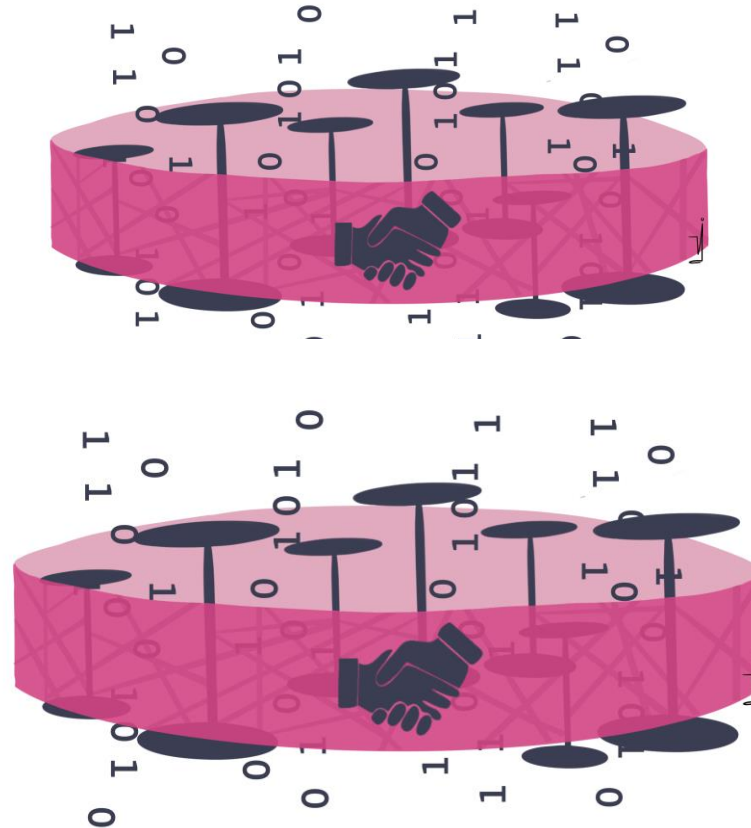
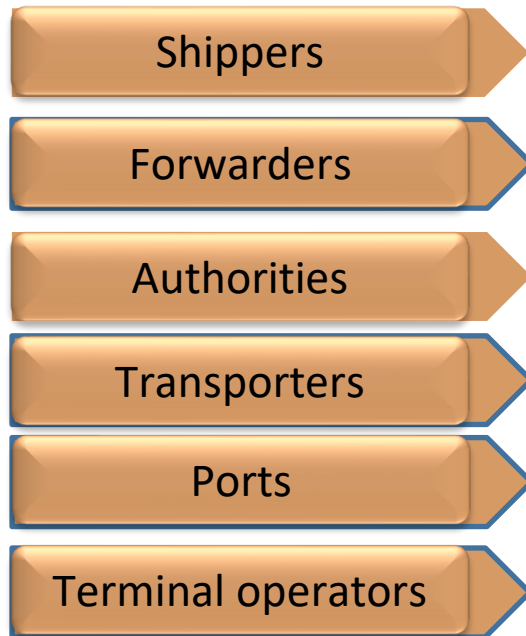


# Enabling us all being connected (pull based)

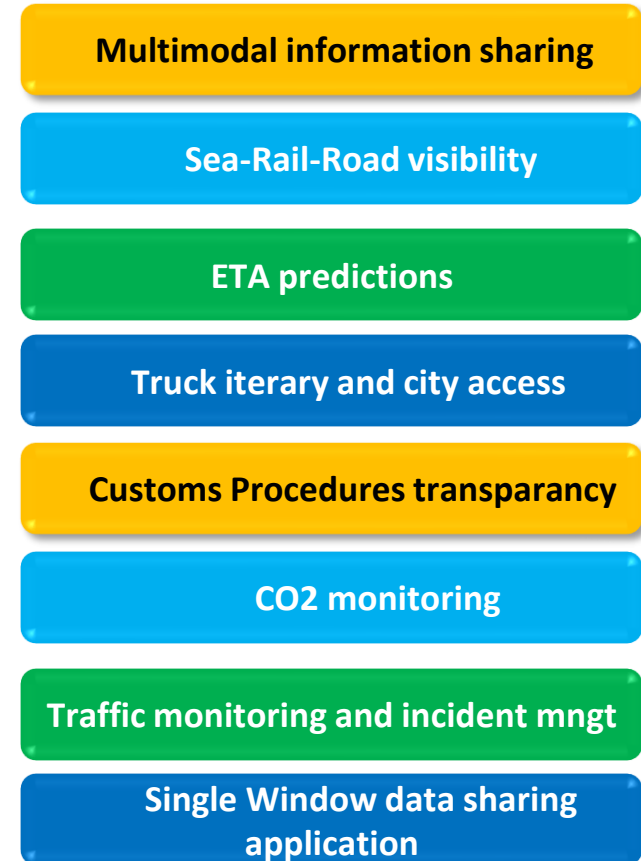


# FEDeRATED Living Labs (2019 - 2023)

## INPUT



## OUTPUT / SERVICES





# NEED TO ENHANCE OUR OPERATIONAL BRAINPOWER

EMPOWERMENT – EXTENDED COLLABORATION – EU LEGISLATION - DATA AT THE EDGE - PULL

JOIN US : [roeland.van.bockel@minienw.nl](mailto:roeland.van.bockel@minienw.nl)



# THANK YOU

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