



The Global Language of Business

# FEDeRATED and FENIX projects

UNCEFACT interim meeting PARIS

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04/02/2020

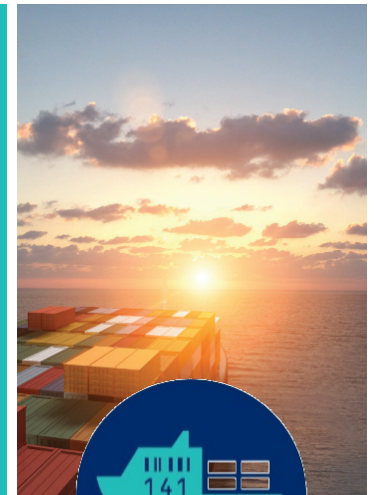




# FENIX - A European FEderated Network of Information eXchange in Logistics".

Building an interconnected IT ecosystems for Logistics

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# FENIX Test sites -> GS1 User engagement

**B1: AirCargo** pilot site(Be)-implement/pre-deploy/deploy specific use cases for the air cargo community linked to the other transport modes across TEN corridors



**B2: Multimodal inland Hub-Procter & Gamble-** Mechelen-Willebroek pilot site across TEN-T corridors



**H: Smart door-to-door** multimodal T&L services across TEN-T



**A: Customs corridor services** for T&L:- Fürnitz Pilot Site (South Austria) on the Baltic-Adriatic corridor

**SL: Mondelez** T&L multimodal services across TEN-T corridors



**F: Multi Modal Transport T&L services interoperability** on the Mediterranean and the North Sea – Mediterranean TEN-T corridors



**G: Multiple test sites** across on Rhine-Alpine in Holland, Germany, Switzerland, Italy



**E: Data visibility T&L services** across the Spanish-Atlantic corridor between the main nodes and actors



**I1: Mediterranean and Baltic-Adriatic and the Motorway of the Sea of South-east corridors**

**I2: The Italian Rhine Alpine pilot site – Dynamic Synchro-modal for sustainable multimodal logistic planning and operations**



**GR: Greece Balkan-TEN-T network, Adriatic-Ionian Corridor-Cyprus multimodal T&L services**

# TODAY in Europe

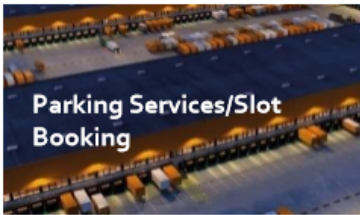
Several logistic platforms



Several transport modes



Several services/  
Use cases



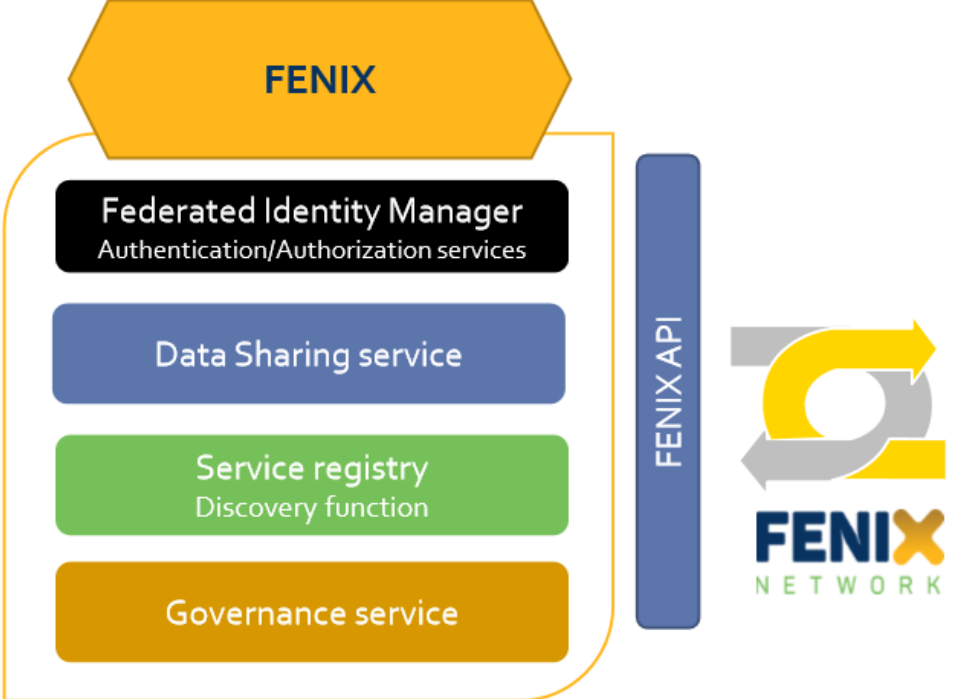
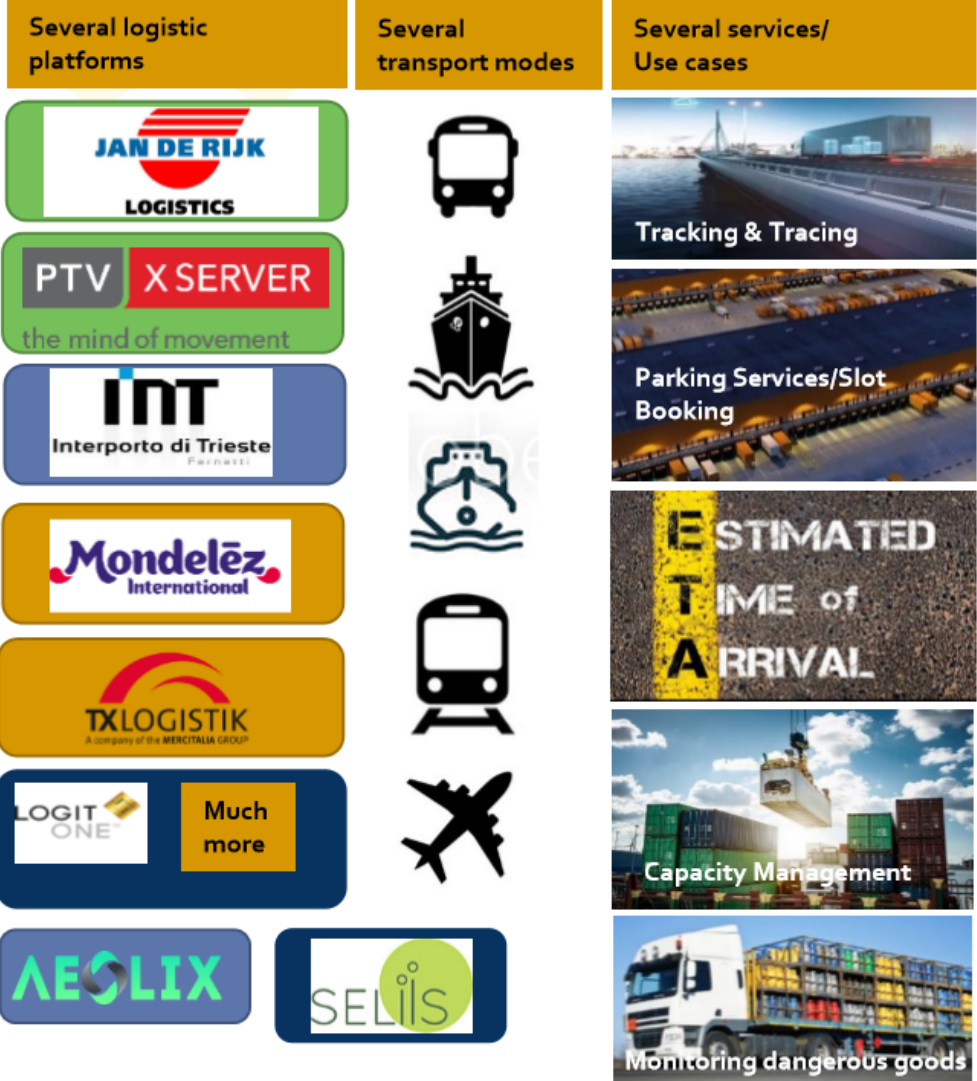
## EU is seeking for an easy plug and play solution to

- interconnect the different digital platforms and harmonise the services they offer
- support data sharing services with common protocols (interoperability)
- facilitate cloud-based horizontal collaboration
- overcome today's fragmentation and lack of connectivity around ICT-based systems for logistics decision making
- connect as many services as possible via one connector
- to be as attractive as possible for logistic operators in Europe

EU wants A Federative Network of Platforms, which is an open-solution and not "privately owned" and technological neutral = FENIX



# Main Goal: A Federative Network of Platforms



Well designed architecture is needed



## Future of Logistics

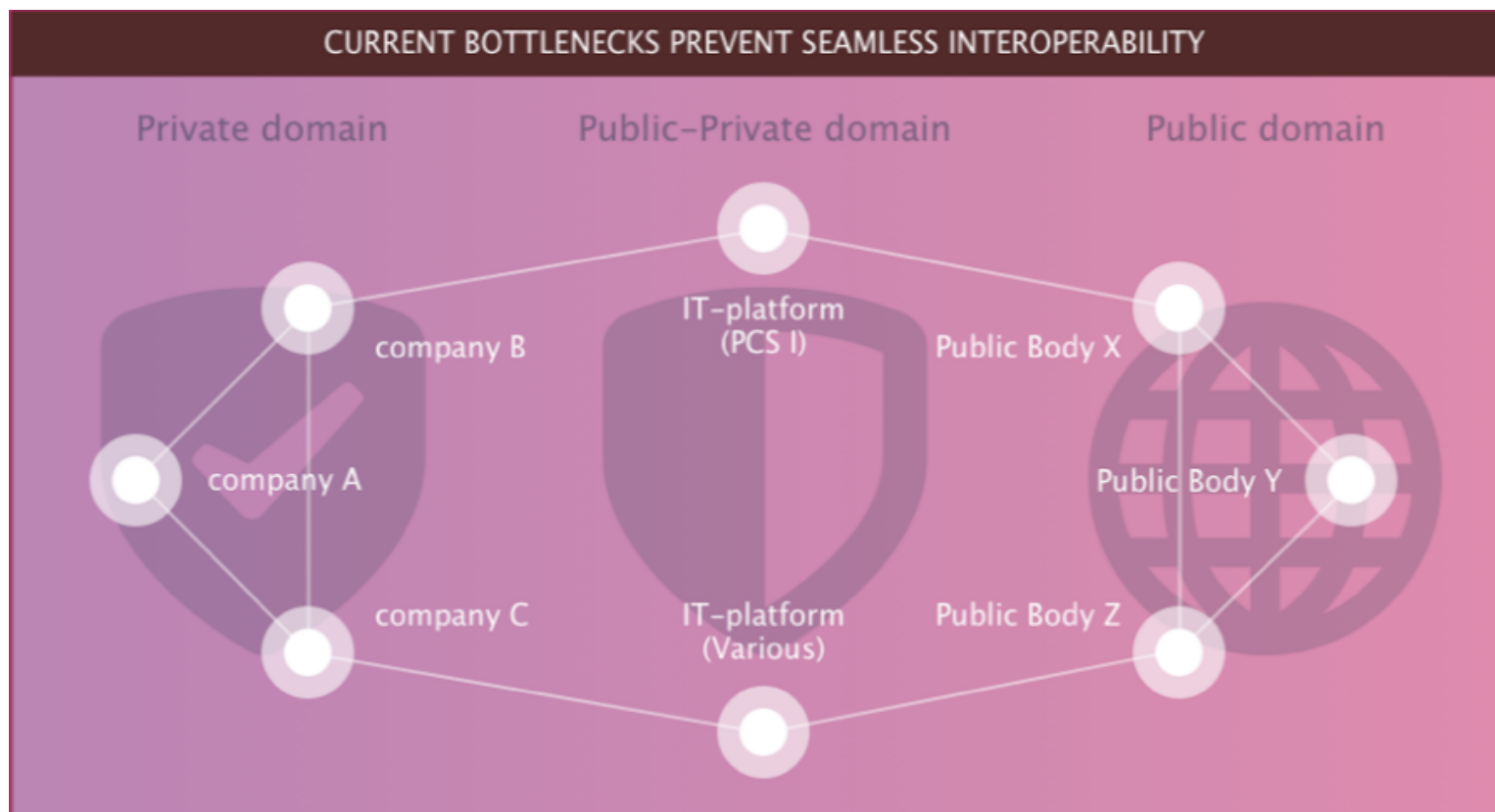
- **TRUST:** Trust is the basis of the FENIX. To use the data, the data consumer must fully accept the data owner's usage policy.
- **ECOSYSTEM OF DATA:** pursues the idea of decentralization of data storage, which means that data physically remains with the respective data owner until it is transferred to a trusted party.
- **STANDARDIZED INTEROPERABILITY:** is implemented in different variants and can be acquired from different vendors.
- **VALUE ADDING APPS:** includes also services for data processing, data format alignment, and data exchange protocols.
- **DATA MARKETS:** FENIX enables the creation of novel, data-driven services that make use of data apps.
- **PI:** FENIX enables the creation of new ICT infrastructure to support operations in future PI logistics networks

# FEDeRATED in short



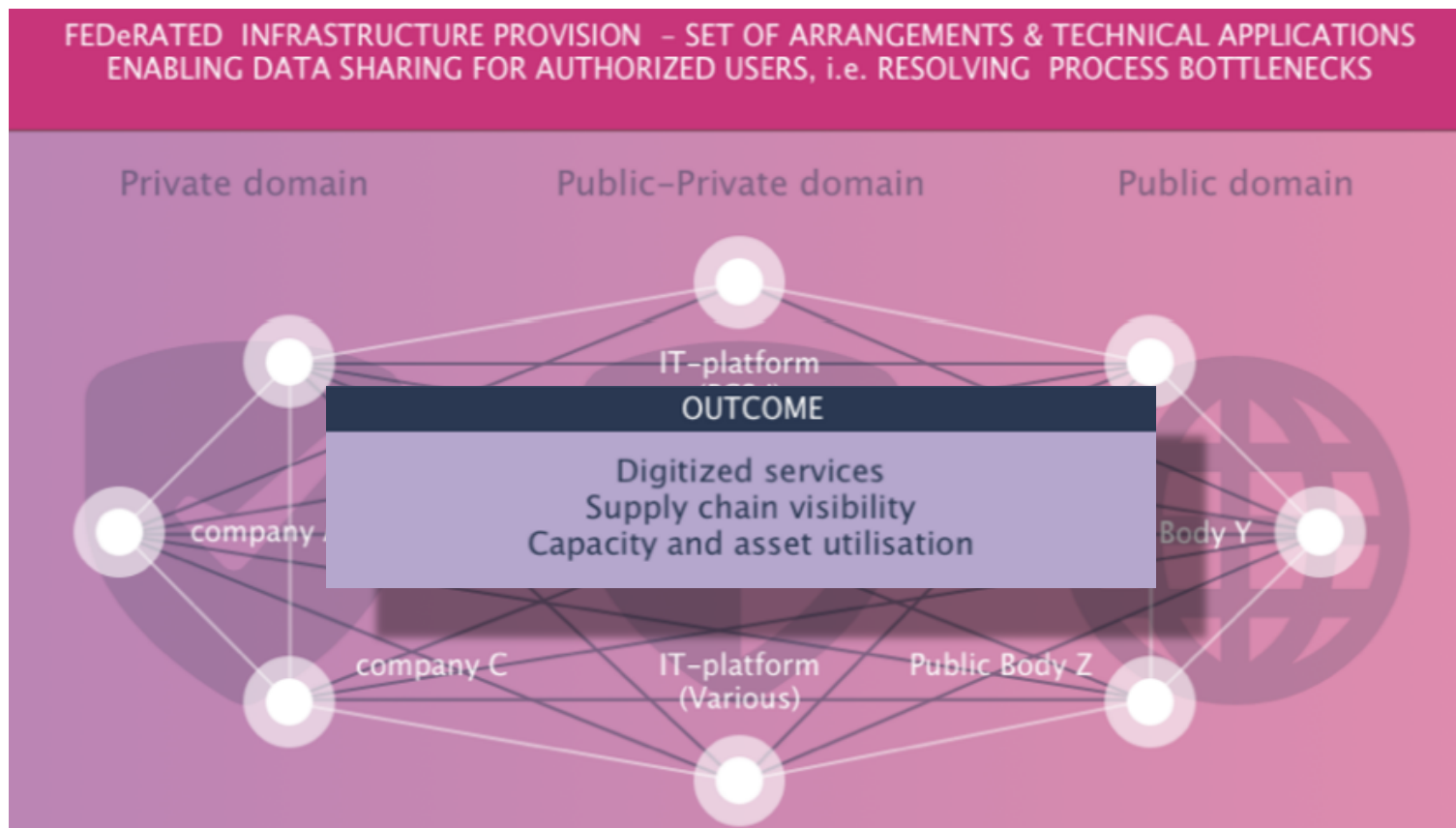
Co-financed by the Connecting Europe  
Facility of the European Union

# Current bottle necks

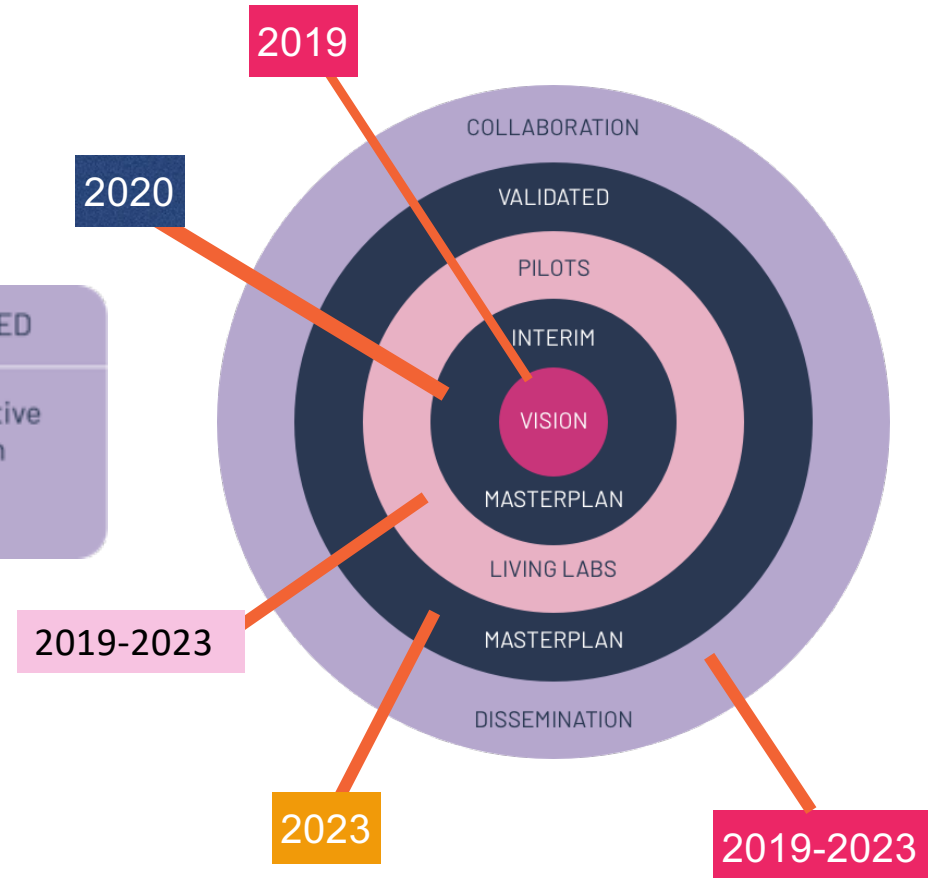




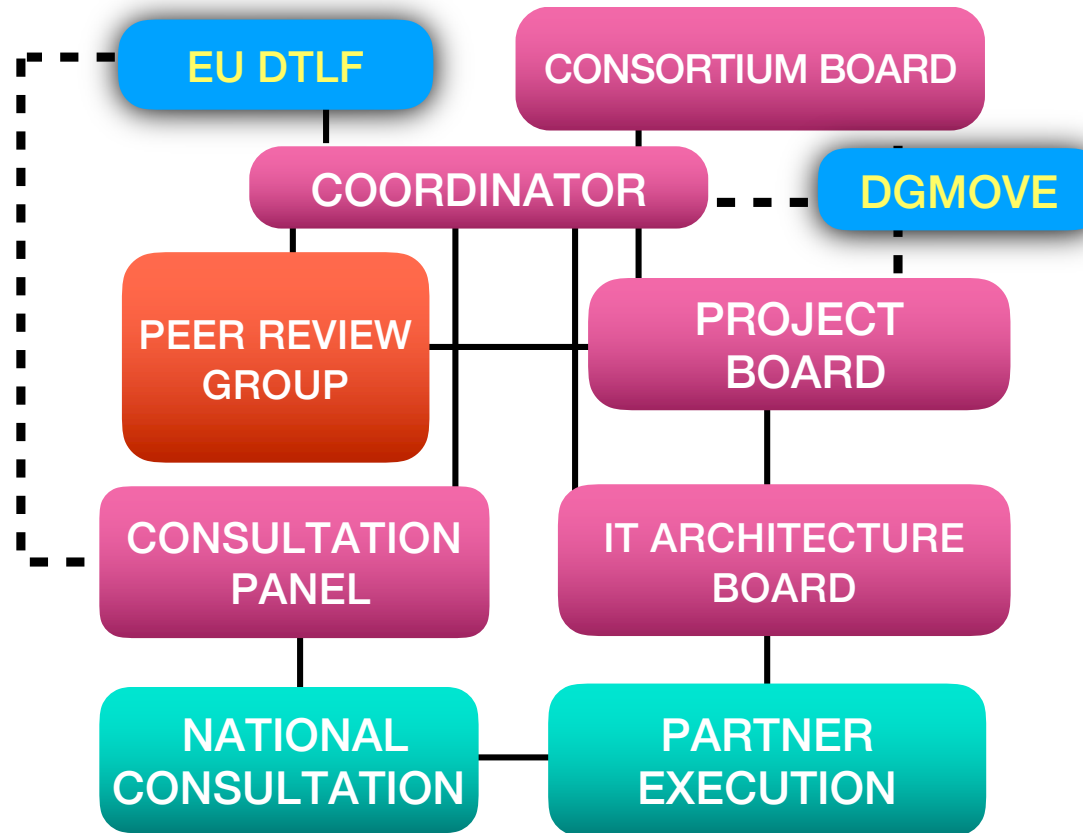
# Federated Network of Platforms



# Why, how and when



# Governance



# DTLF - FEDeRATED

*interrelation*

## Objective & Scope

**Core Operating Framework:**  
*Trust, data sovereignty, open, Interoperability, dedicated access*

## Leading principles

- *Organisational*
- *Services*
- *Information*
- *Functional*
- *Technical*
- *Semantics*
- Governance*

**Plug and play**

**Technology independent services**



**Building blocks**

*Architecture Building Block (ABB)*

- *Global description*
- *Procedures & specifications*

*Solution Building Block (SBB)*

**Federation**

**Trusted, safe and secure**

**Glossary**



# What is FEDeRATED

