

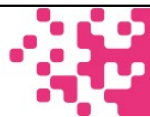
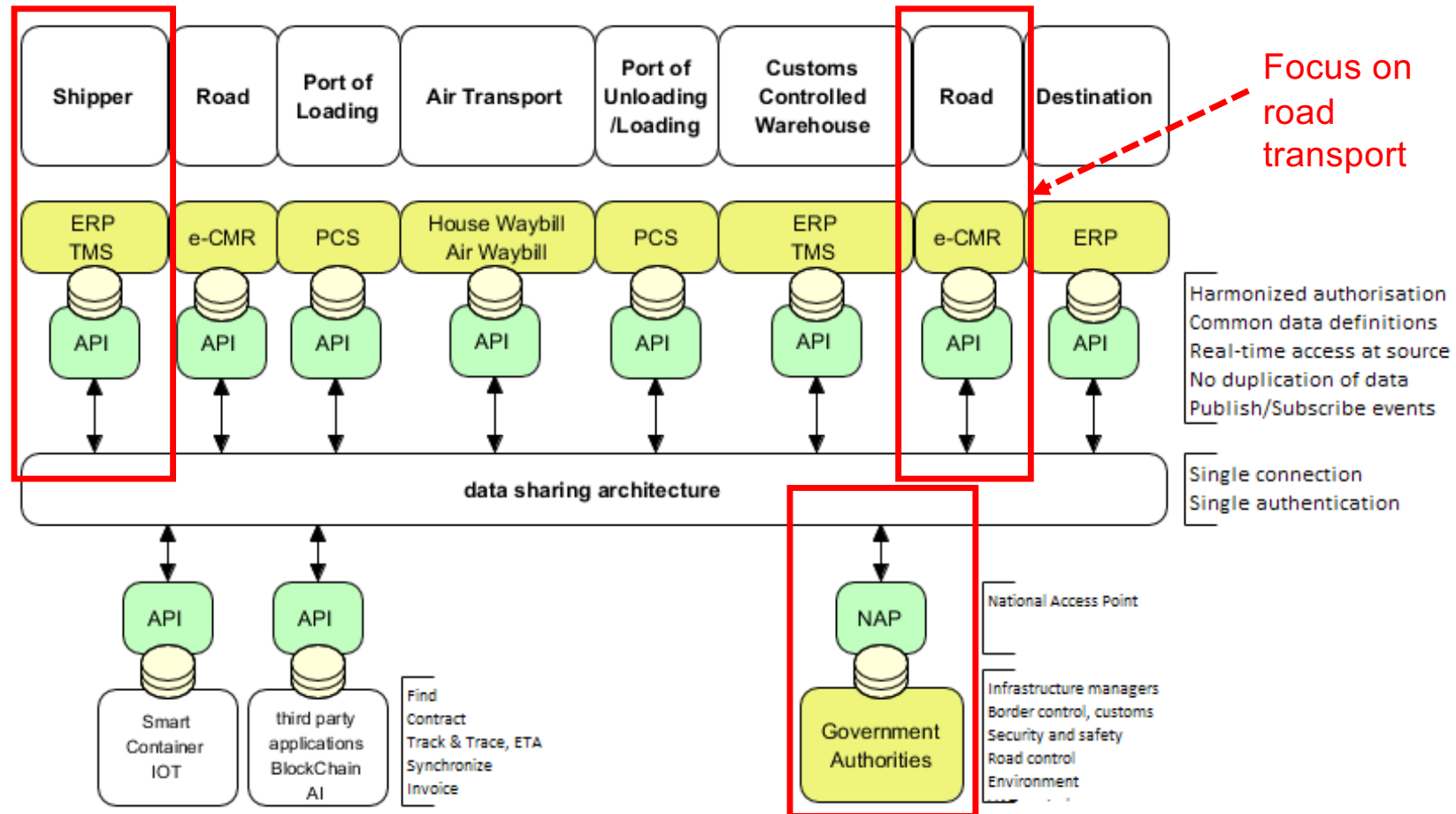
How will e-CMR and eFTI fit together in a European FEDeRATED data sharing architecture?

Living Lab 17 EU-Gate e-CMR/eFTI Access Point
Brussels, EU Data Logistics Festival
30 November 2023

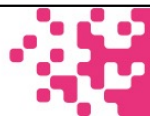
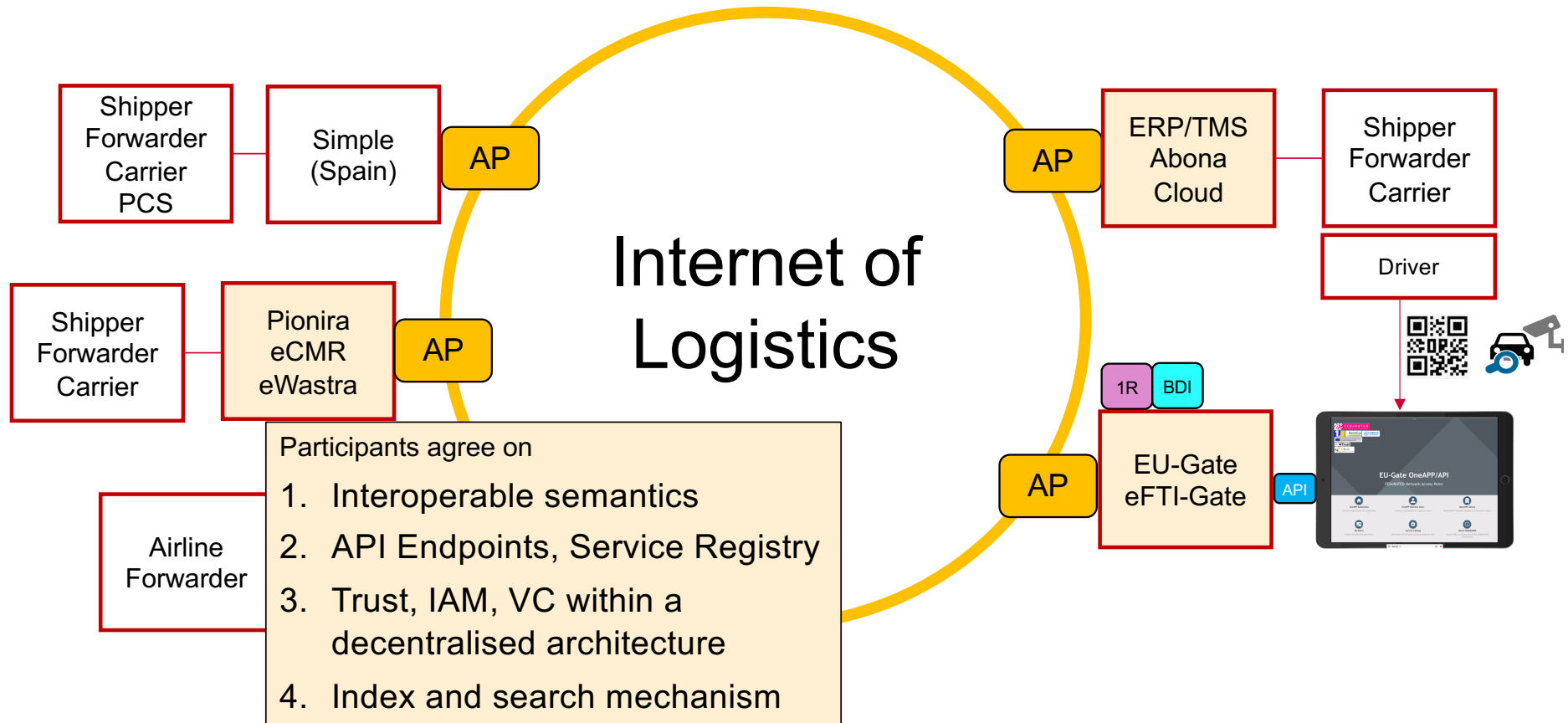


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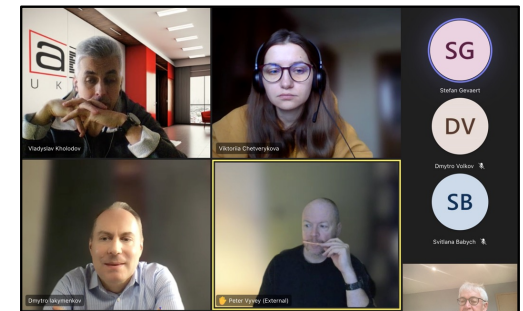
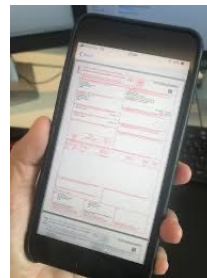
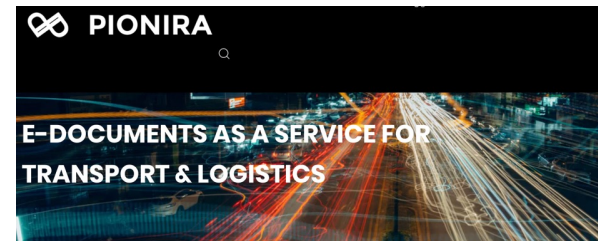
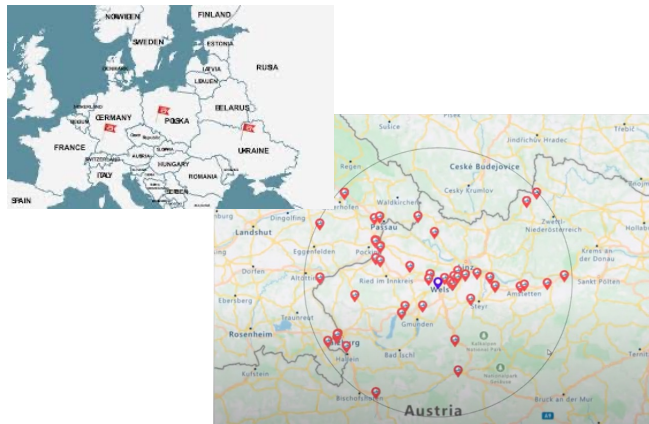
Towards an internet of logistics



EU-Gate e-CMR/eFTI Access Point Living Lab 17



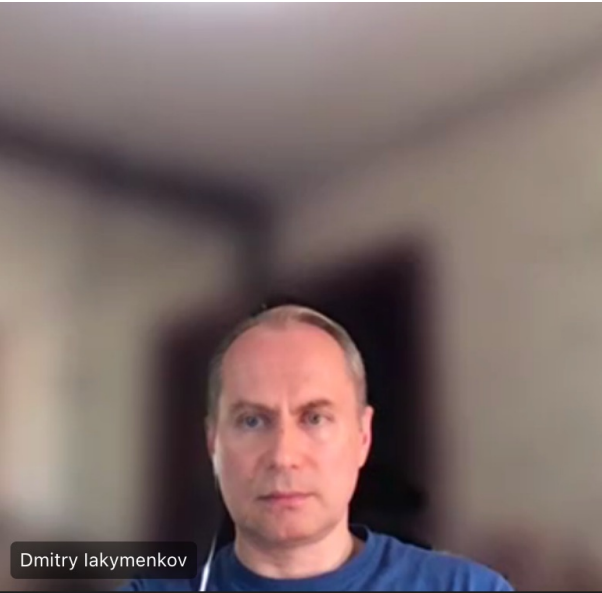
LL17 Stakeholders



The background of the slide is a gradient of purple and pink. On the left side, there are several incandescent light bulbs hanging from above. One bulb in the center is brightly lit, while the others are dimmer. Scattered across the background are several semi-transparent pink squares of various sizes, some overlapping the light bulbs.

The Abona-Pionira e-CMR/eFTI Exchange Pilot

- Together with UA
- Barcelona Beer and Wine use case
- e-CMR + logistics events
- eFTI Access point + OneAPP
- Semantic interoperability
- Decentralised identifiers + verifiable credentials



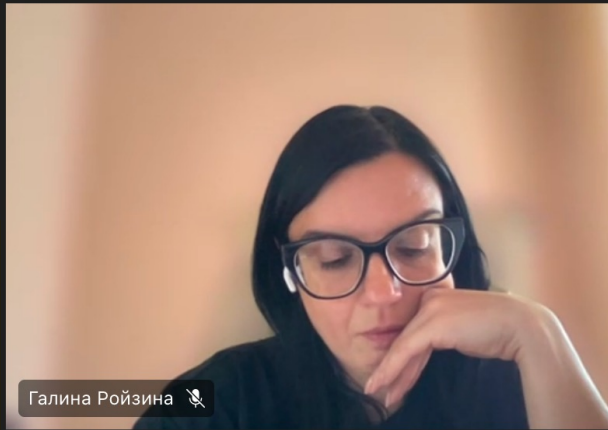
Dmitry Iakymenkov



Richard Morton (IPCSA) (Guest)



Leonid Kuhn



Галина Ройзина



Hans Rook IPCSA (gast) (Guest)



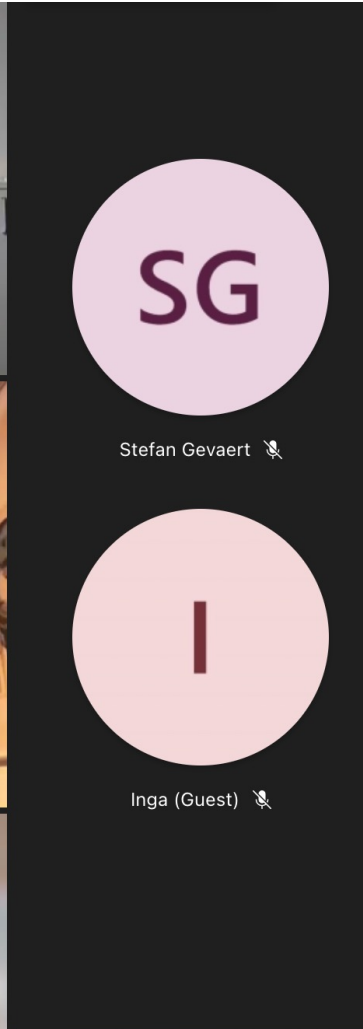
Tilman Friz



Barry Van Leuven



Matti Lankinen



Stefan Gevaert

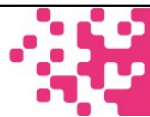
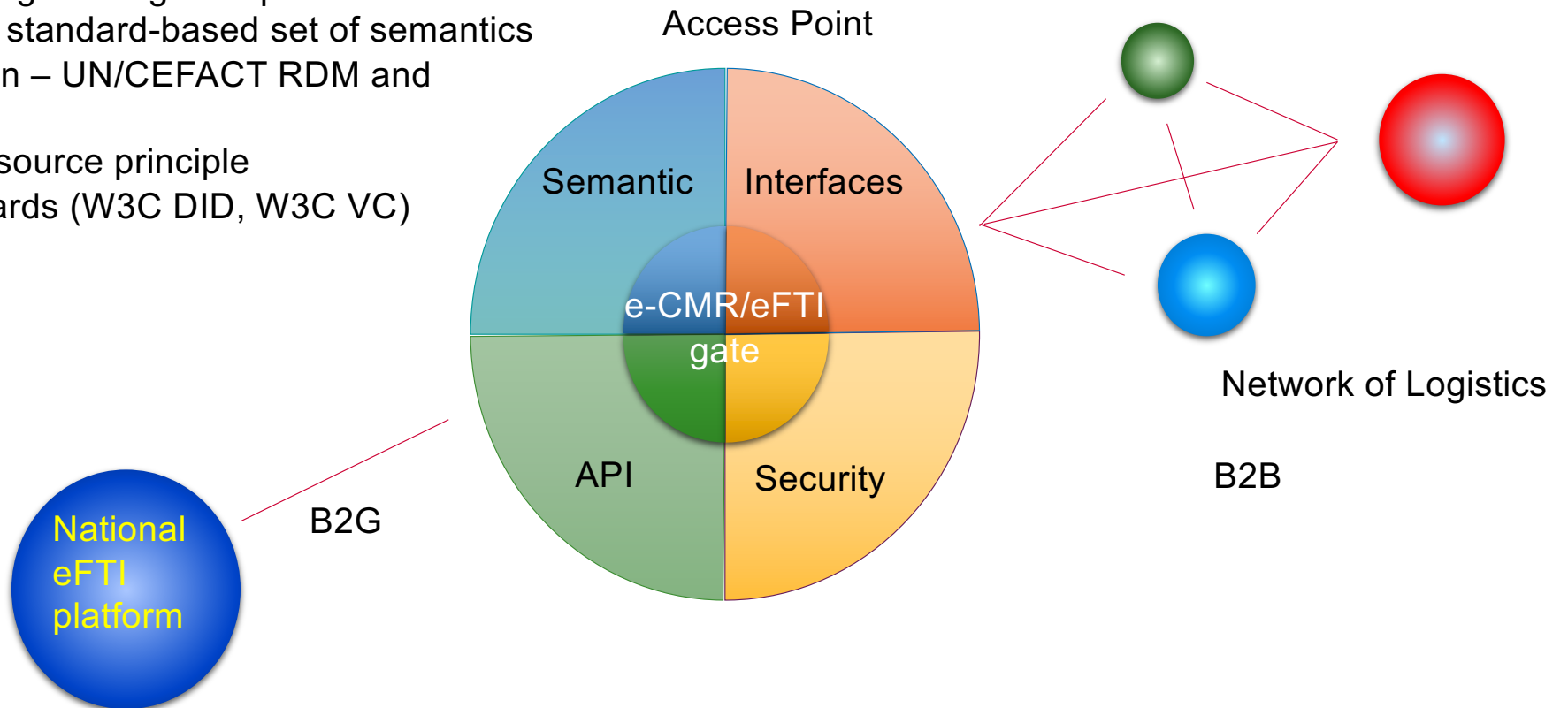


Inga (Guest)

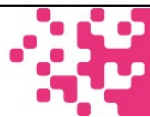
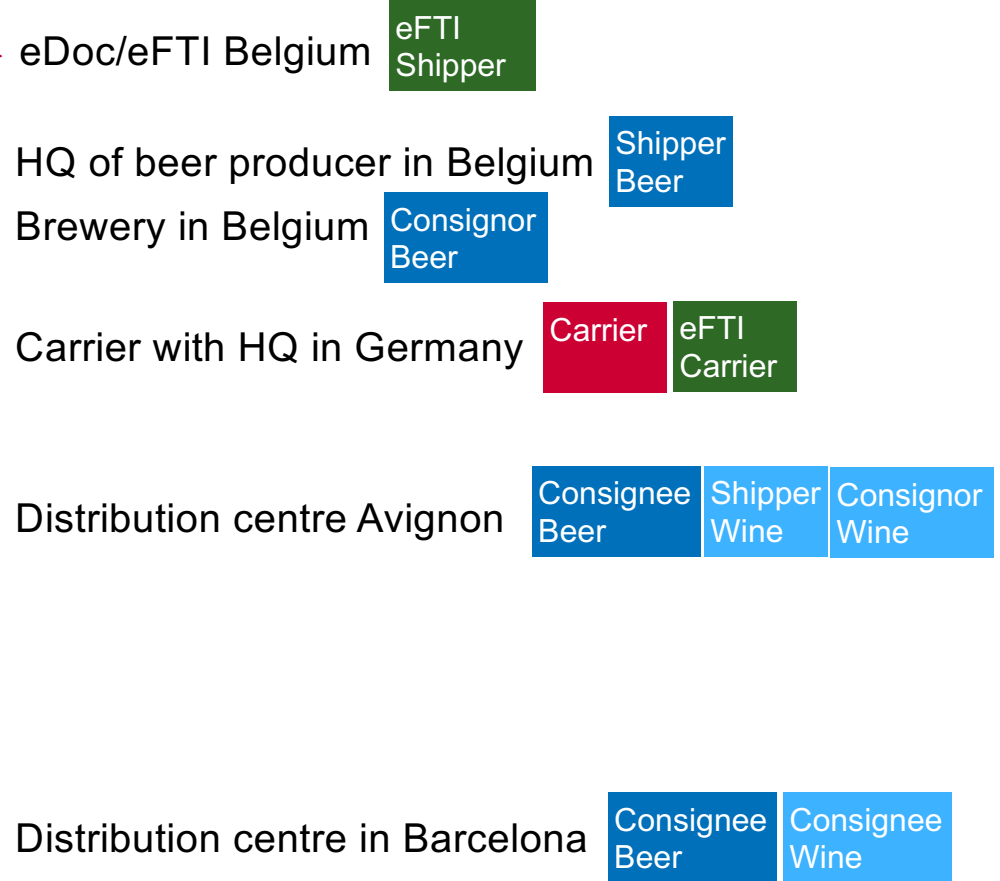
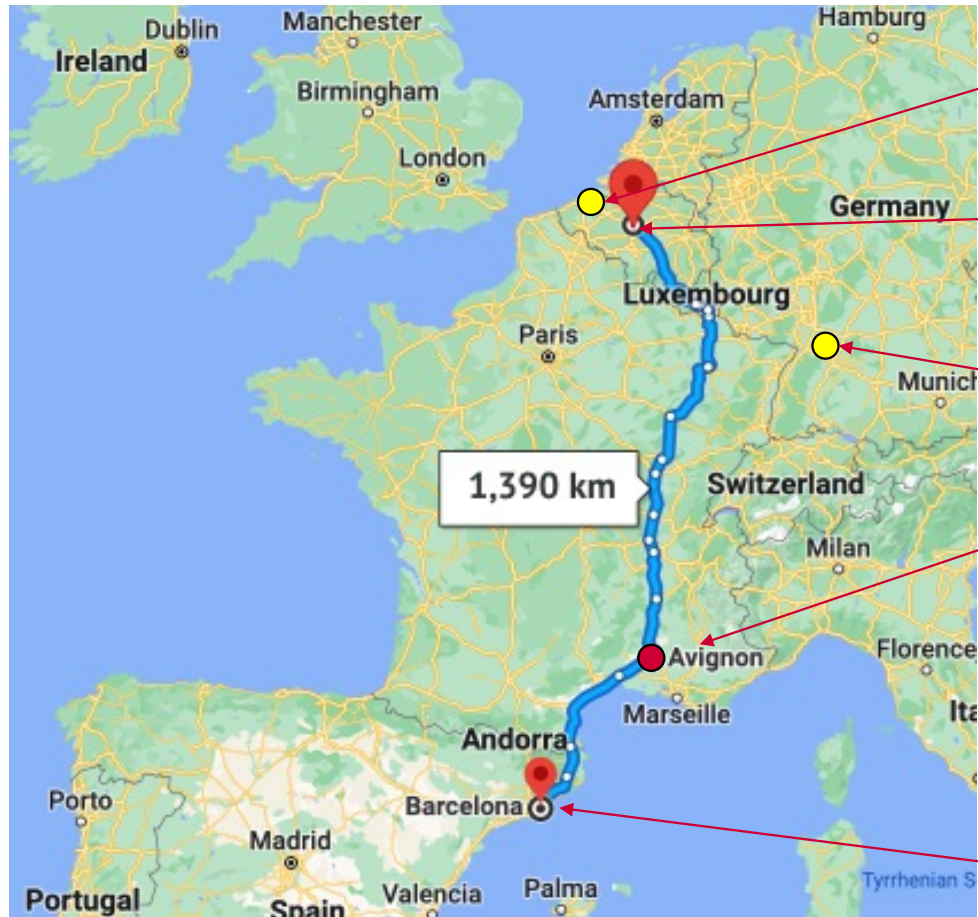


Abona-Pionira eCMR/eFTI exchange pilot

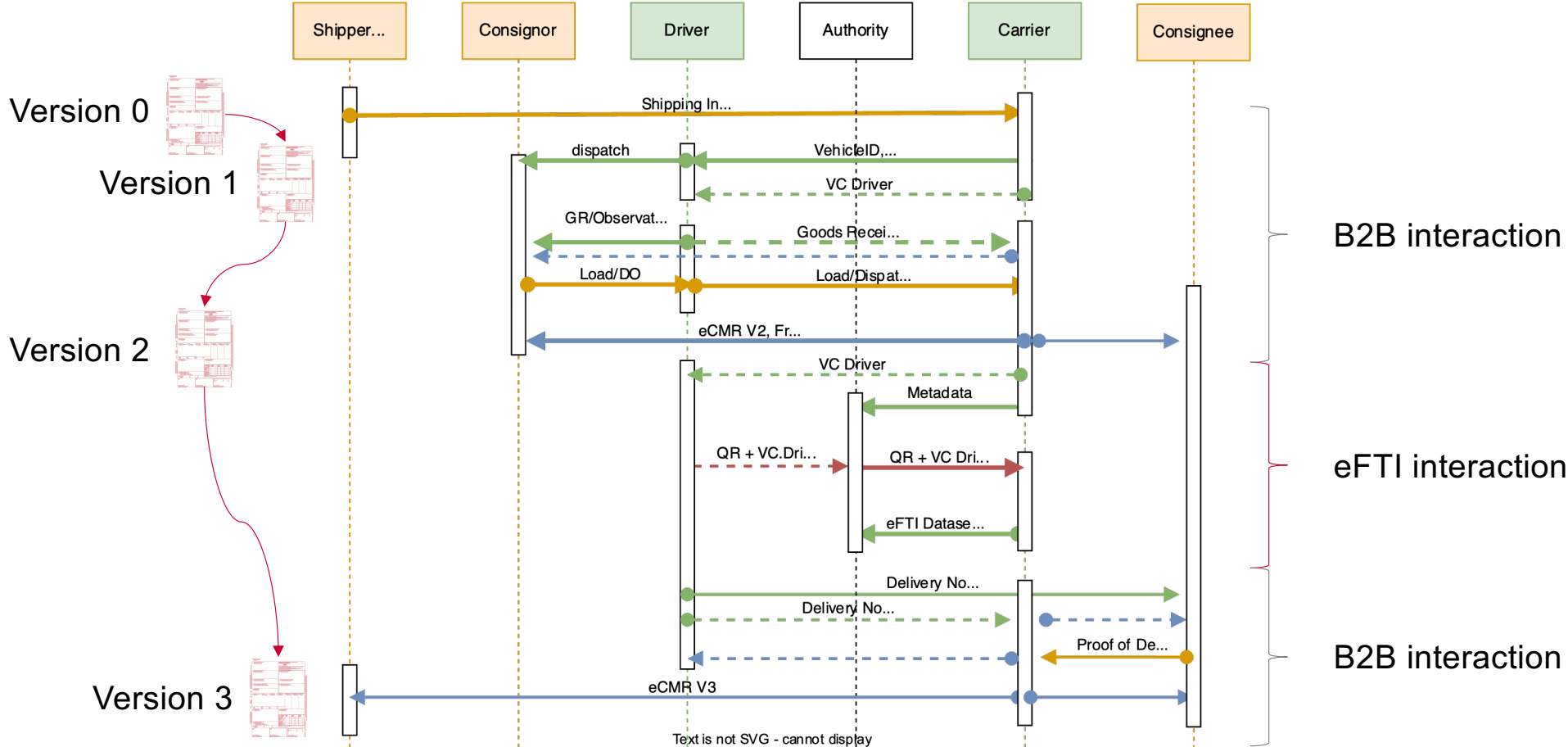
- Trusted network of the Access Points, that implements agreed logistics processes
- Harmonized standard-based set of semantics for interaction – UN/CEFACT RDM and Vocabulary
- Data-at-the-source principle
- Open standards (W3C DID, W3C VC)



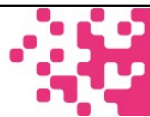
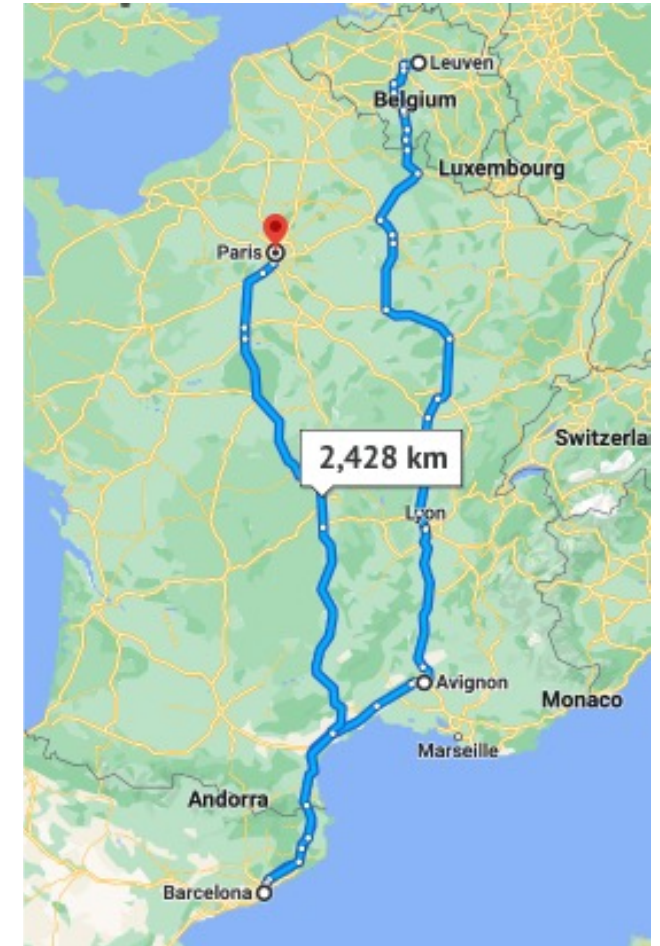
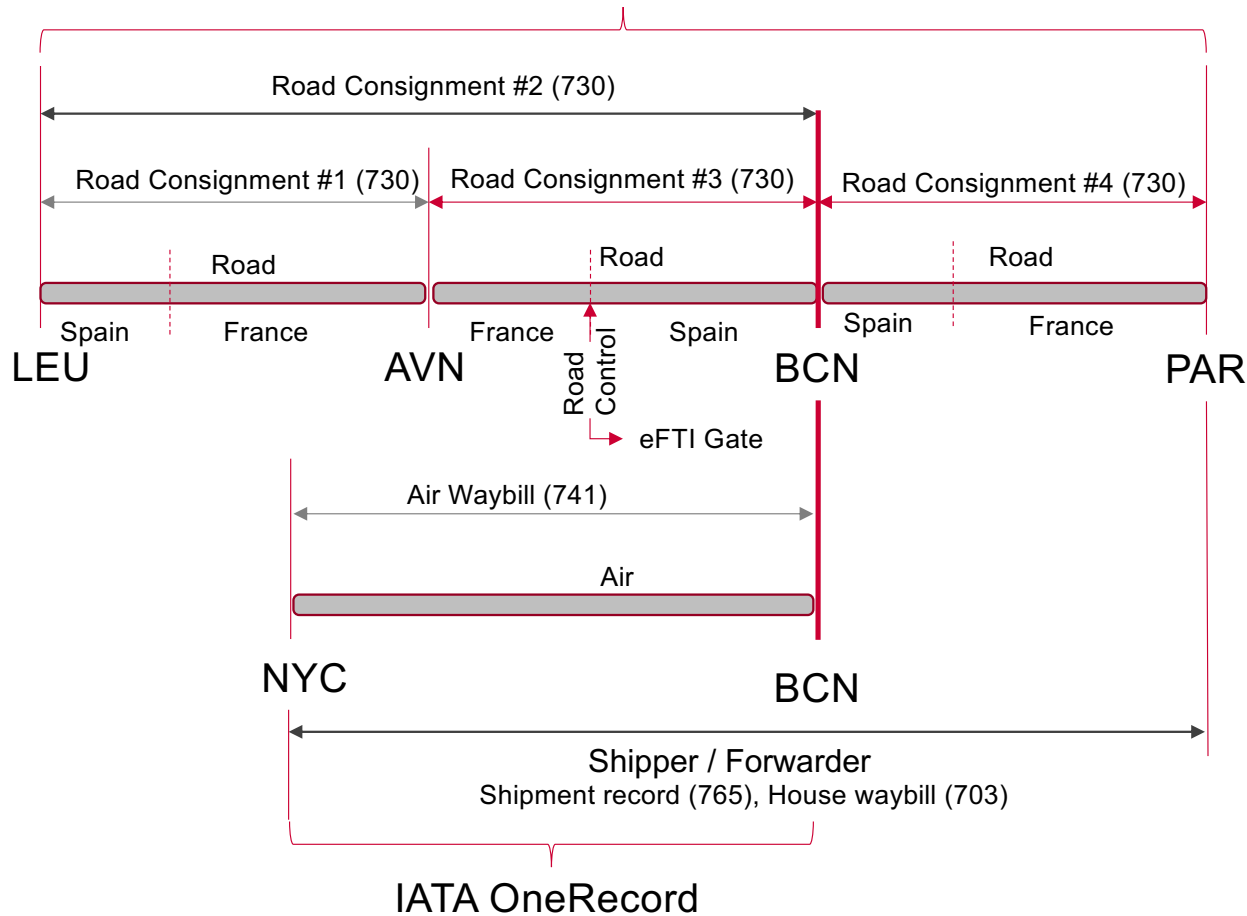
The Barcelona beer and wine e-CMR/eFTI use case



Use-case sequence diagram

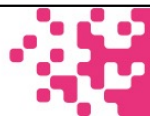


The common living lab use case (Simple, OneRecord, BDI)



Demonstration script

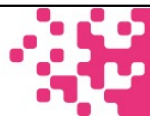
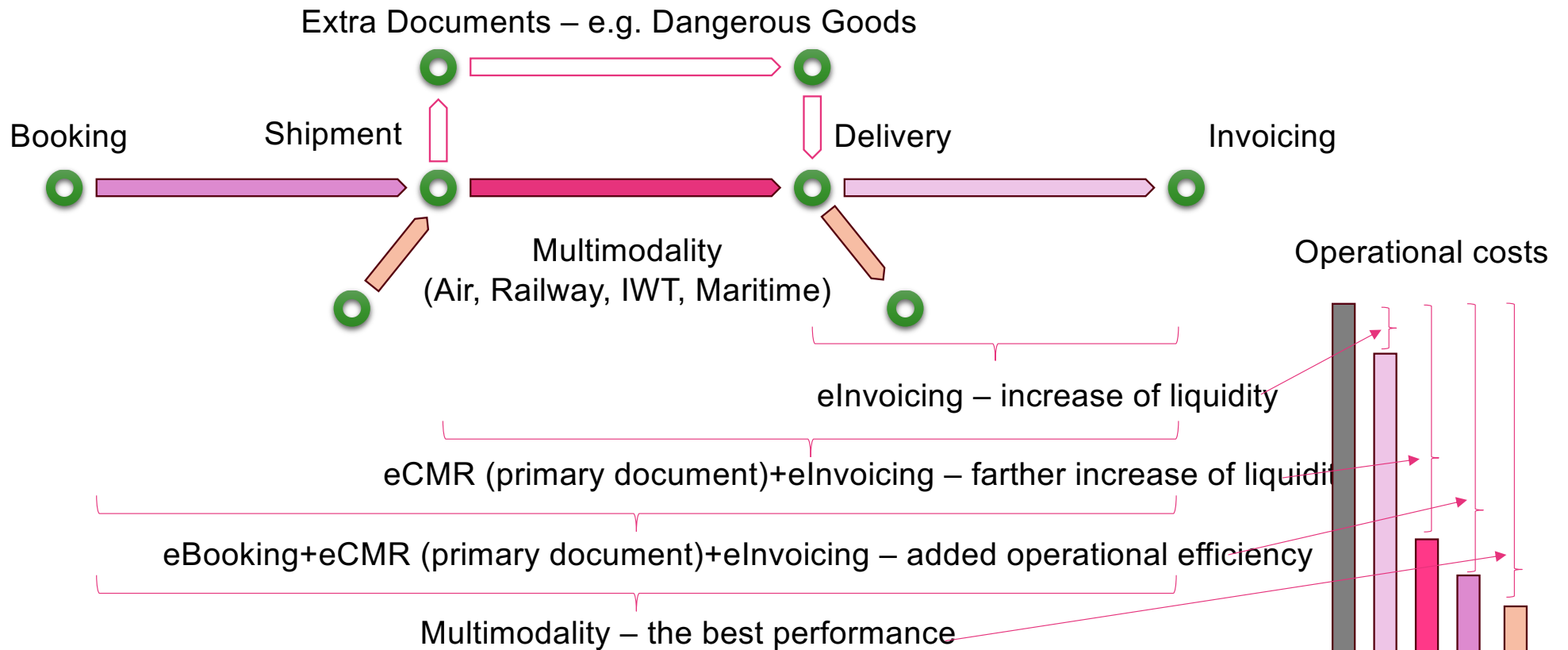
- Abona truck driving Belgium (Leuven), France (Avignon), Spain (Barcelona) : beer + wine
 - B2B (e-CMR): TSB, consignor, consignee and carrier use different platforms
Focus on goods receipt by driver
 - B2A (e-FTI): access by QR code; access by Vehicle registration id
- Abona truck returning Spain (Barcelona Airport) to France (Paris)
 - The airline (handling agent) is the consignor of the road transport from Barcelona to Paris.
OneRecord is data source
 - The airline sends the “loading message”
 - The road carrier confirms with version 1 of the e-CMR (consignor and carrier agree on what has been loaded)
 - A French road control officer stops the German truck on his way to Paris



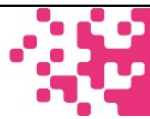
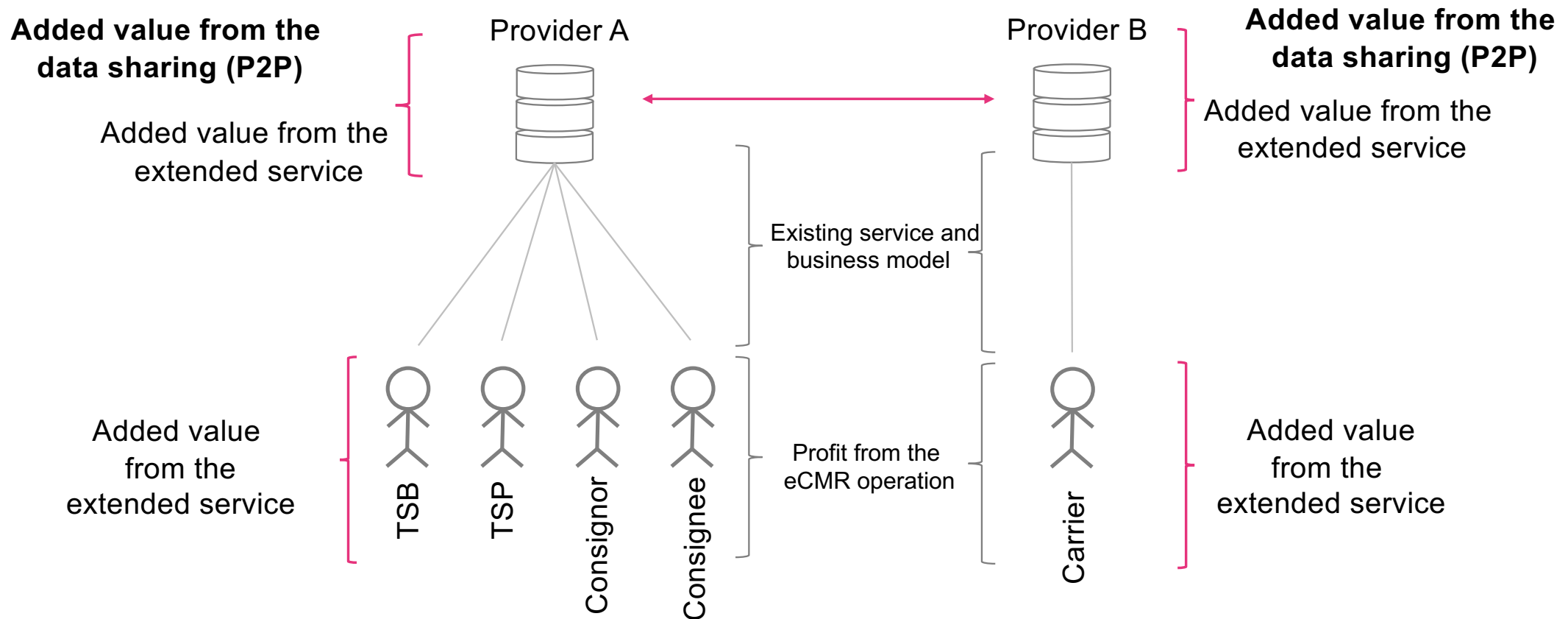
The image features a purple-to-pink gradient background. On the left side, several incandescent light bulbs are hanging from thin black wires. One bulb in the center is brightly lit, casting a warm glow. Other bulbs are unlit and appear as soft, out-of-focus shapes. Scattered across the background are various pink and magenta geometric shapes, including squares and rounded rectangles, some of which are semi-transparent. The overall aesthetic is modern and creative.

Conclusions
Going forward

Added value of the project



Benefits for end-users and providers



Conclusions

1. Internet of Logistics, data is shared at the source

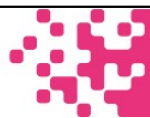
- Interoperable semantics
- Decentralised identifiers and verifiable credentials

2. End-to-end e-CMR processes require

- An EU harmonized legal framework to share data with authorities (eFTI)
- An EU harmonized basic data sharing infrastructure to share data when goods are handed over within supply chains (FEDeRATED)

3. Going forward

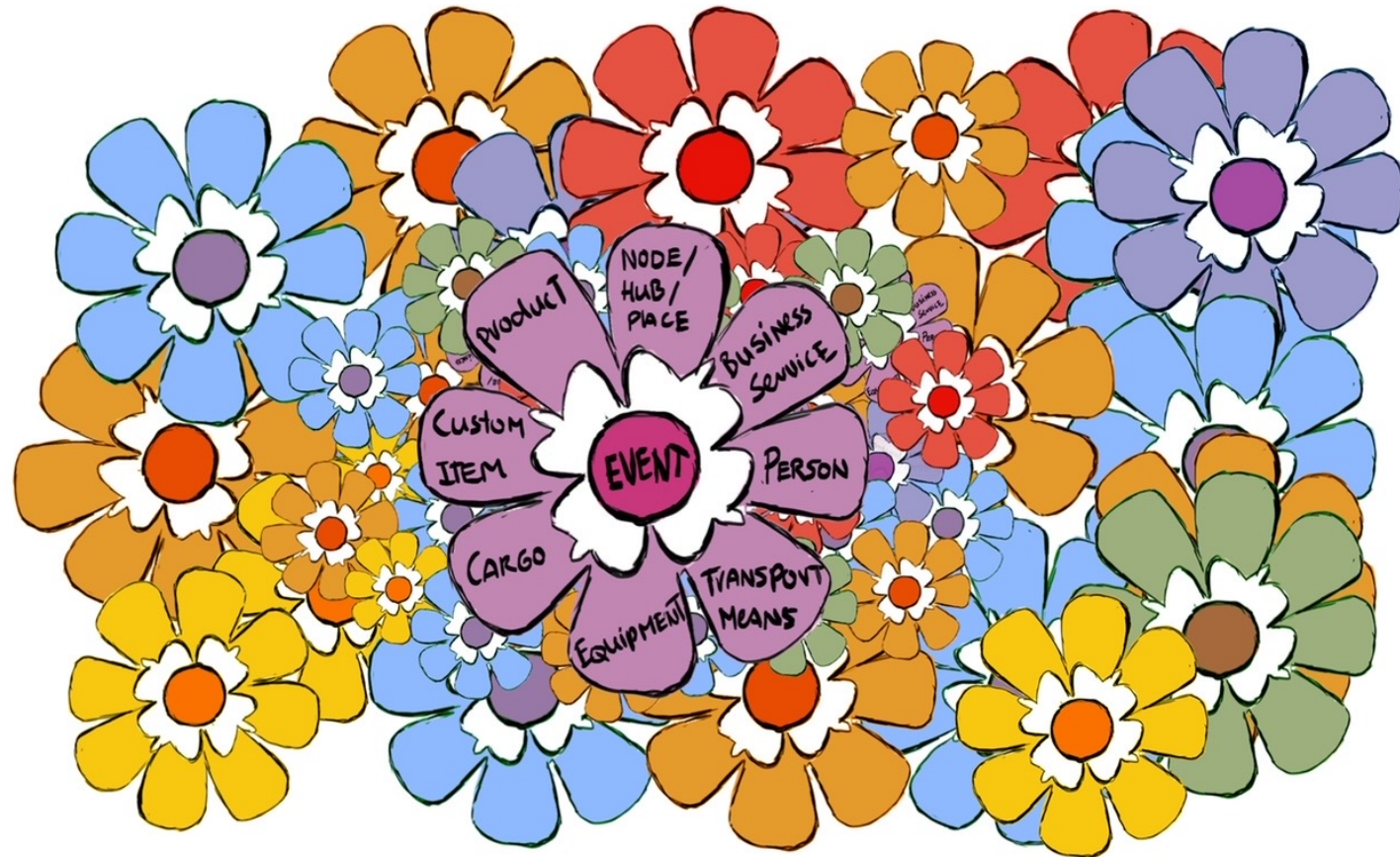
- use the same data sharing infrastructure for B2B (e-CMR, e-invoicing) and B2A (Customs, eFTI, emission reporting, e-VAT reporting)
- eFTI4EU : multimodal integration (road, air, inland navigation)
- Decentralised identifiers and verifiable credentials in global supply chains
- W3C, UNCEFACT JSON-LD Linked Data Vocabulary, EU standards





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