



The eCMR as verifiable credential

40th UN/CEFACT Forum Geneva + Online

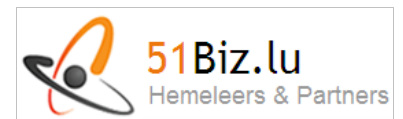
The Future of Digital Standards for Sustainable Supply Chains

12 May 2023

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



The importance of a consignment note

Exemplaire pour l'expéditeur • Exemplaar voor afzender • Exemplar für Absender

LETTRE DE VOITURE • VRACHTBRIEF • FRACHTBRIEF **CMR** BE000240466PIO

Ce transport est soumis, nonobstant toute clause contraire, à la Convention CMR.
Dit vervoer is, ongeacht enig tegenstrijdig beding, onderworpen aan het CMR-Verdrag.
Trotz gegenteiliger Abmachung unterliegt diese Beförderung den Bestimmungen des CMR-Übereinkommens.

Pionira NV - www.pionira.be - 04/2022



<p>1 Expéditeur ou commissionnaire (nom, adresse, Etat) • Afzender of commissionair (naam, adres, Staat) • Absender oder Spediteur (Name, Anschrift, Staat)</p> <p>Pionira Consignor Gerard Mercatorstraat 85 Lommel 3920 BE</p>	<p>5 Transporteur principal (nom, adresse, Etat, n° de la licence) • Hoofdvervoerder (naam, adres, Staat, vergunningsnummer) • Hauptfrachtführer (Name, Anschrift, Staat, Genehmigungsnummer)</p> <p>Pionira Main carrier Transporteurstraat 14 BE-8000 Brugge V985</p>	
<p>2 Destinataire (nom, adresse, Etat) • Geadresseerde (naam, adres, Staat) • Empfänger (Name, Anschrift, Staat)</p> <p>Pionira Recipient Kappelstraat 154 BE-8020 Oostkamp</p>	<p>6 Transporteur sous-traitant (nom, adresse, Etat, n° de la licence) • Ondervoerder (naam, adres, Staat, vergunningsnummer) • Unterfrachtführer (Name, Anschrift, Staat, Genehmigungsnummer)</p>	
<p>3 Prise en charge de la marchandise (lieu, Etat, date, heure) • Inontvangstneming van de goederen (plaats, Staat, datum, uur) • Warenabnahme (Ort, Staat, Datum, Uhr)</p> <p>Pionira Producer 30/09/2022 13:03 Karrekietlaan 3 BE-8210 Loppem L-154</p>	<p>7 Transporteur successif (nom, adresse, Etat, n° de la licence) • Opvolgende vervoerder (naam, adres, Staat, vergunningsnummer) • Nachfolgender Frachtführer (Name, Anschrift, Staat, Genehmigungsnummer)</p>	
<p>4 Livraison (lieu, Etat, date, heure) • Aflevering (plaats, Staat, datum, uur) • Lieferung (Ort, Staat, Datum, Uhr)</p> <p>Pionira Treatment operator 30/09/2022 13:06 Slagstraat 45 BE-1000 Brussel D-853</p>	<p>9 Réserves du transporteur lors de la prise en charge de la marchandise • Reserves van de vervoerder bij de inontvangstneming van de goederen • Warenabnahme</p>	
<p>8 Frais afférents au transport • Transportgebonden kosten • Transportgebundene Kosten</p>		
<p>Laden Prise en charge Warenabnahme</p>	<p>Uur aankomst Heure arrivée Uhr aankomst</p> <p>30/09/2022 13:03</p>	<p>Uur vertrek Heure départ Uhr vertrek</p> <p>13:03</p>

- Agreement between the sender and the transport service provider
- Record receipt of goods by carrier, proof of delivery
- Basis for invoicing
- Demonstrate compliance of transport to national and EU regulations (eFTI: 2025H2)
- Supporting document Customs & other border control regulations
- Demonstrate intra-community deliveries (VAT)
- ...

Business Opportunity

€ 13,11



Paper CMR

€ 22,83



€ 8,95



€ 11,56



€ 2,32



e-CMR

€ 9,72



€ 2,51



€ 6,04



€ 1,16

Belgian e-CMR
Survey (2019)

[link to analysis of survey](#)

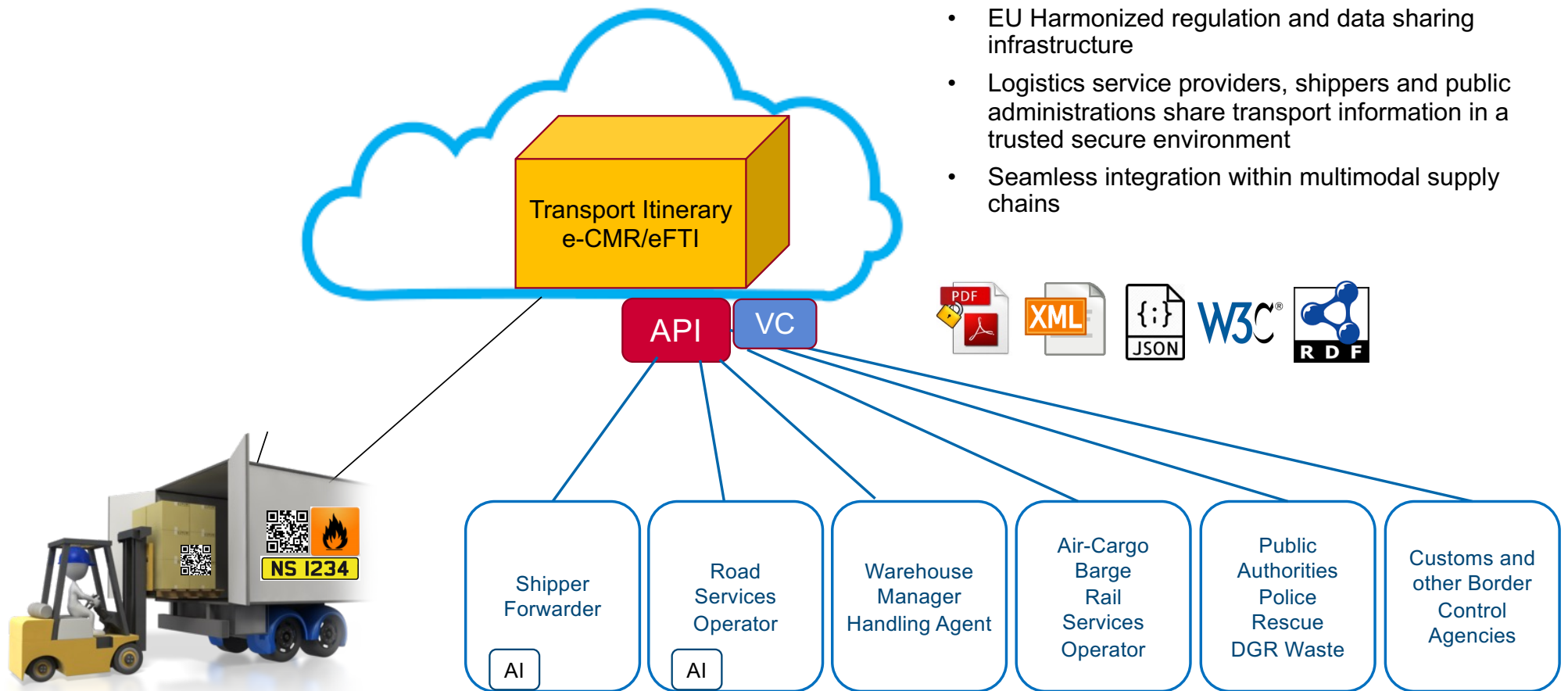


VBO | **FEB**
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Entreprises de
Belgique



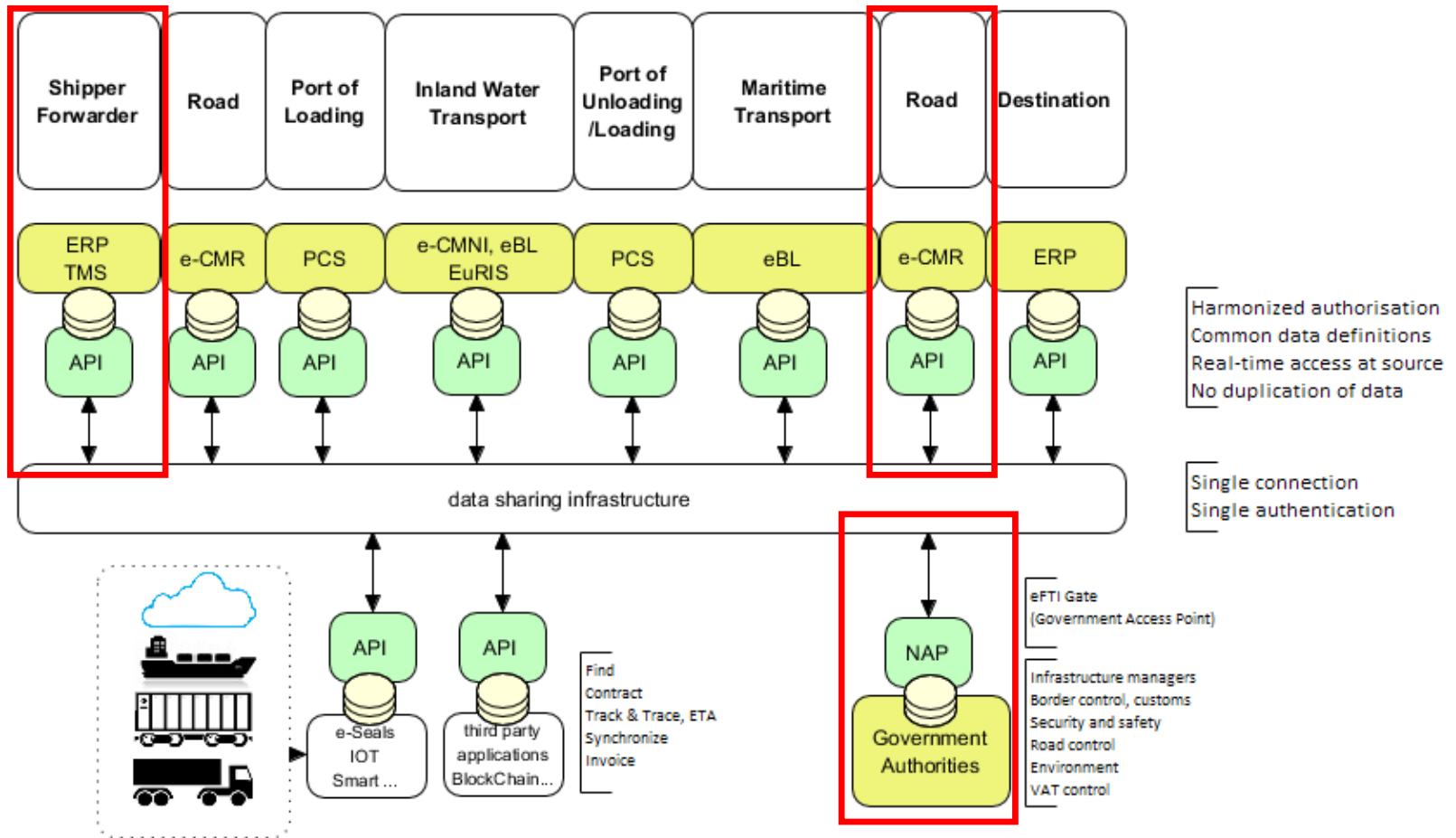
►► **UHASSELT**

Data is shared at the source

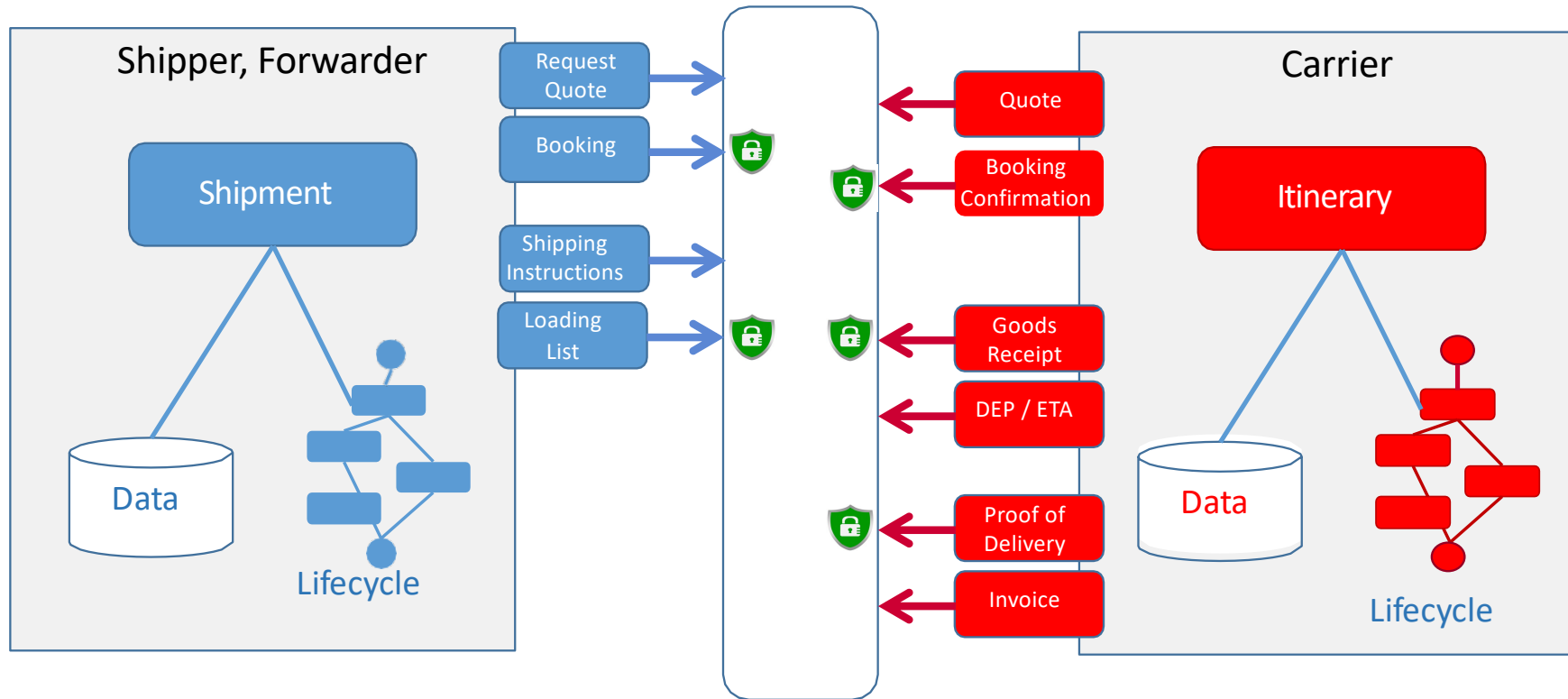


- EU Harmonized regulation and data sharing infrastructure
- Logistics service providers, shippers and public administrations share transport information in a trusted secure environment
- Seamless integration within multimodal supply chains

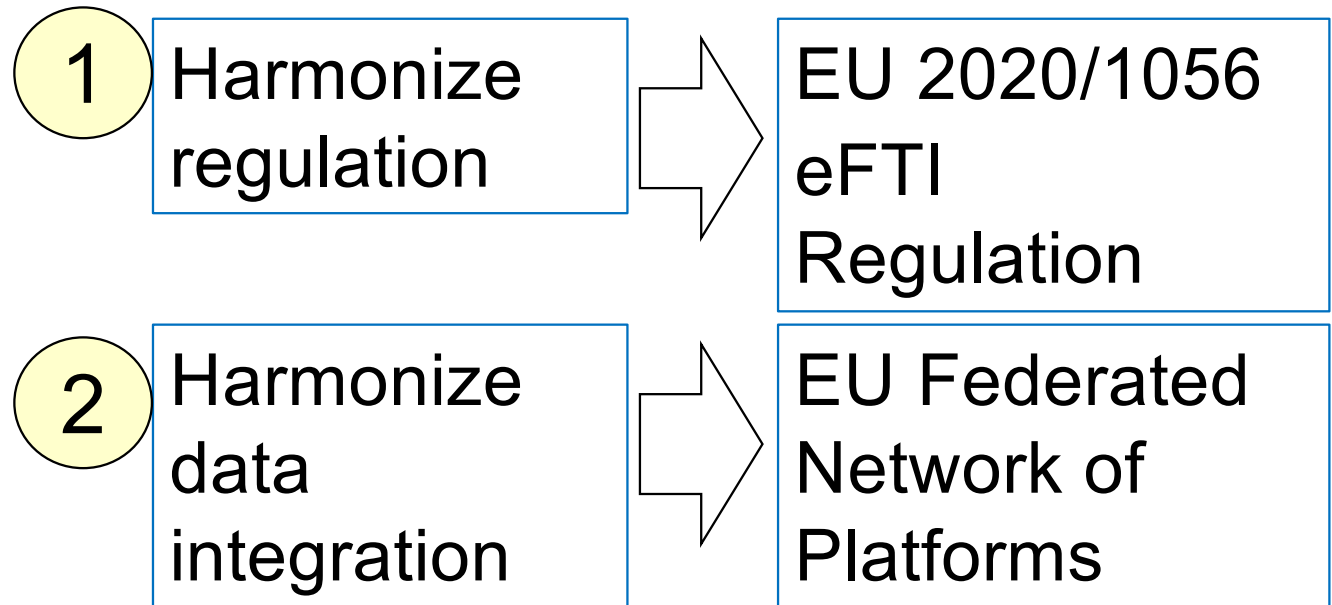
Towards an internet of logistics



Digital twins share events

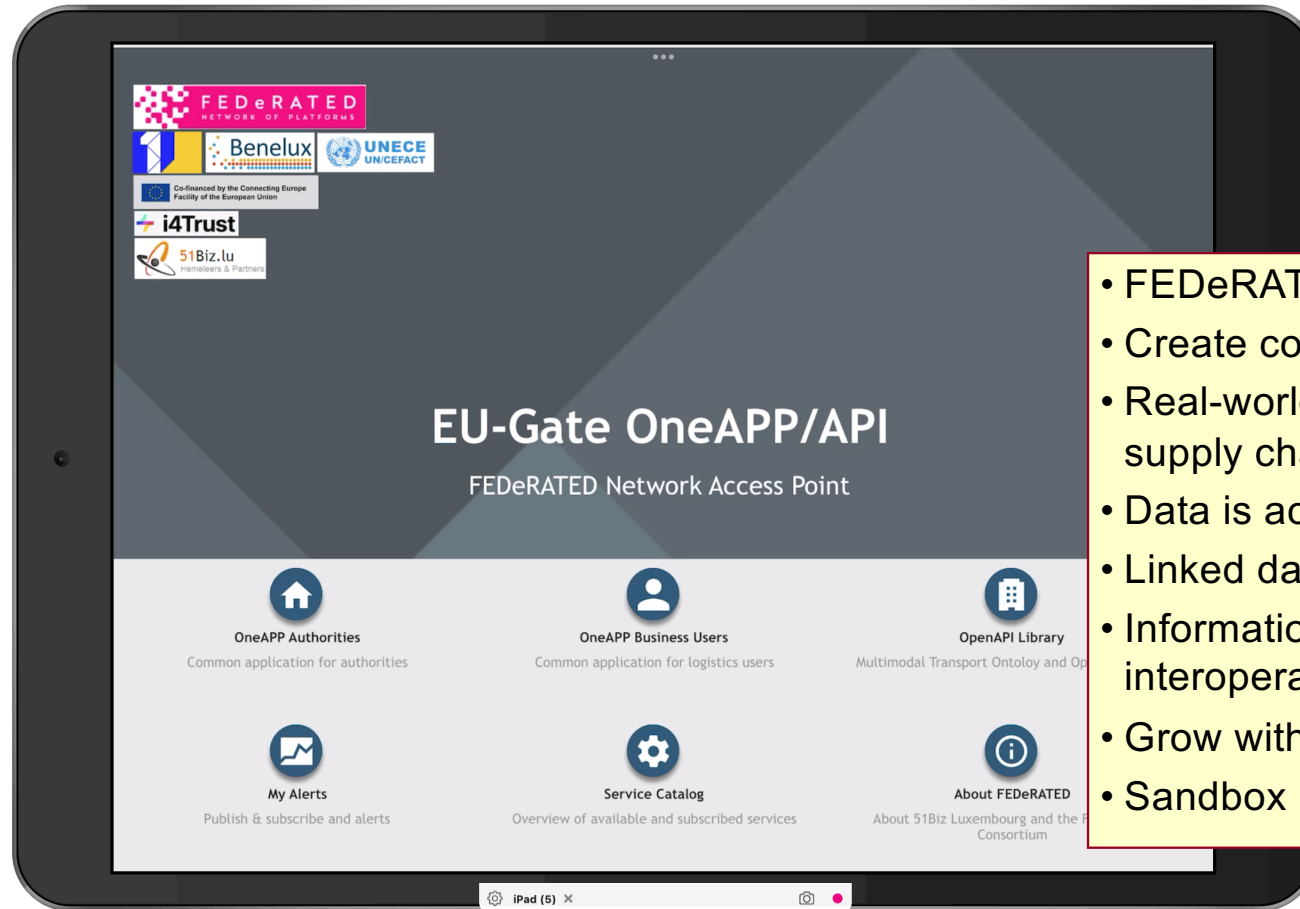


Two EU priorities



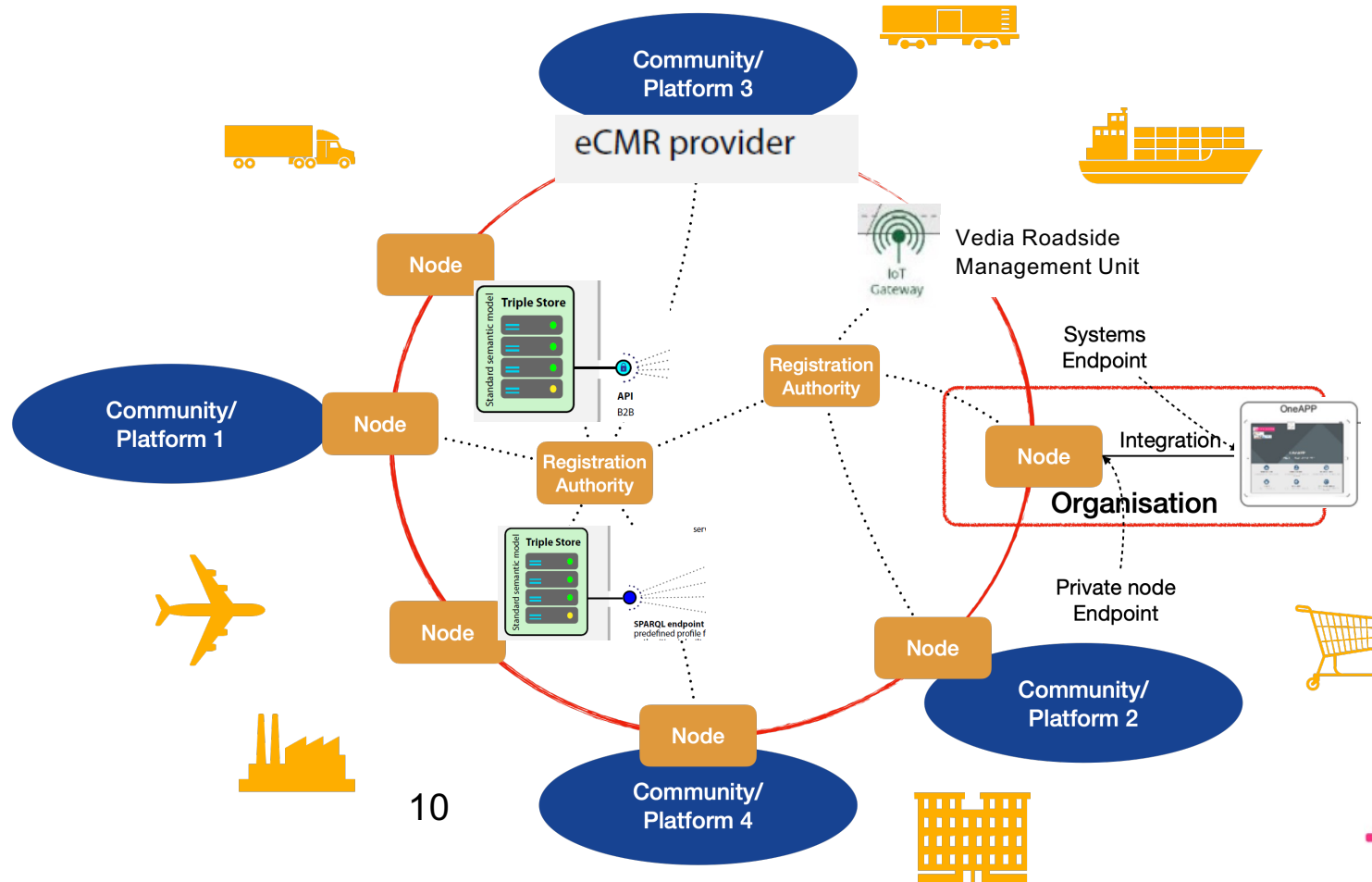
These 2 EU priorities have been defined by the EU Digital Transport and Logistics Forum, a group of about 120 digital experts advising the European Commission on its strategy towards a digital and green Europe

EU-Gate OneAPP/API for Authorities



- FEDeRATED Living Lab 17
- Create common understanding
- Real-world multi-modal reference supply chains
- Data is access at the source
- Linked data, Unique ID
- Information model provides interoperability
- Grow with eFTI and FEDeRATED
- Sandbox EU Reference architecture

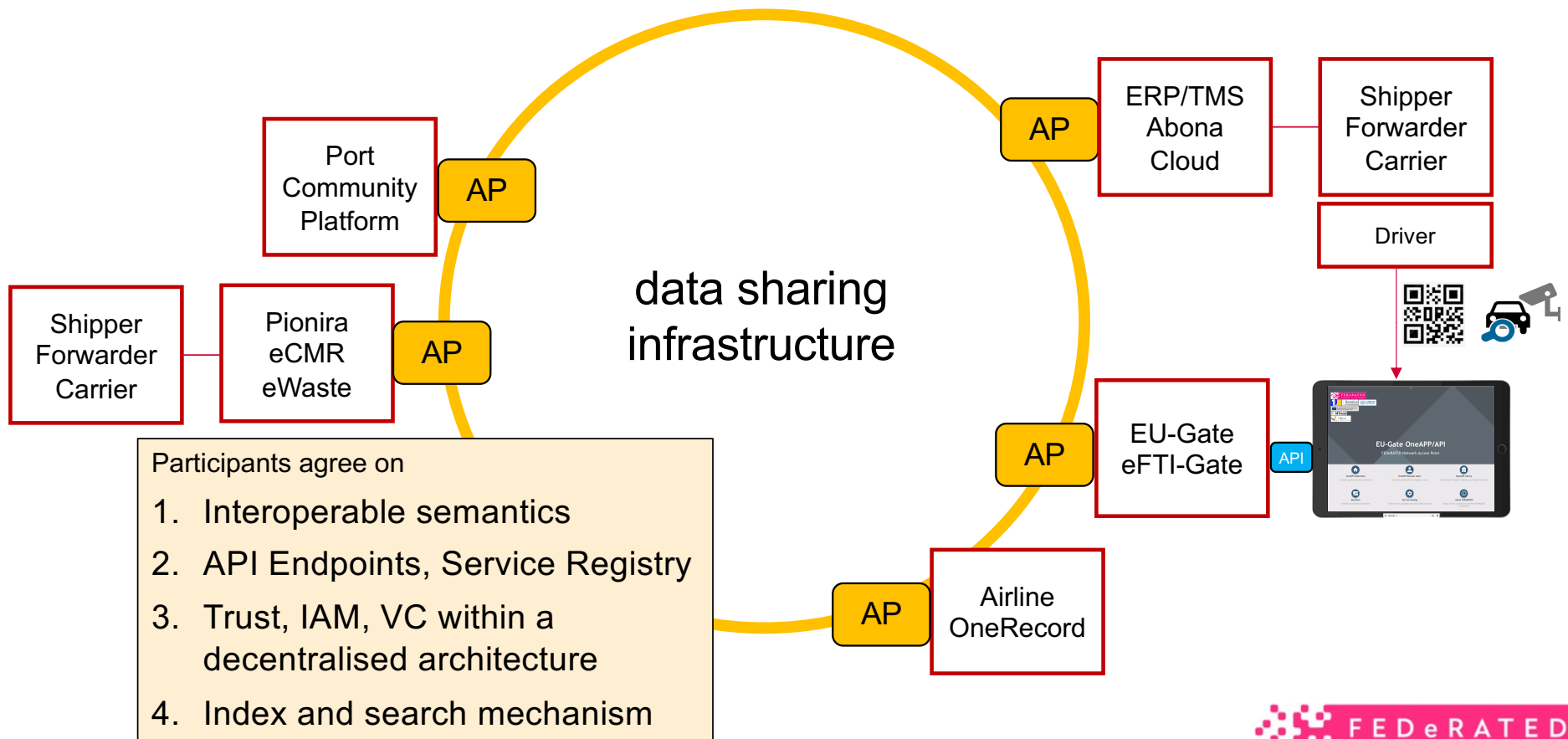
Towards an EU FEDeRATED platform



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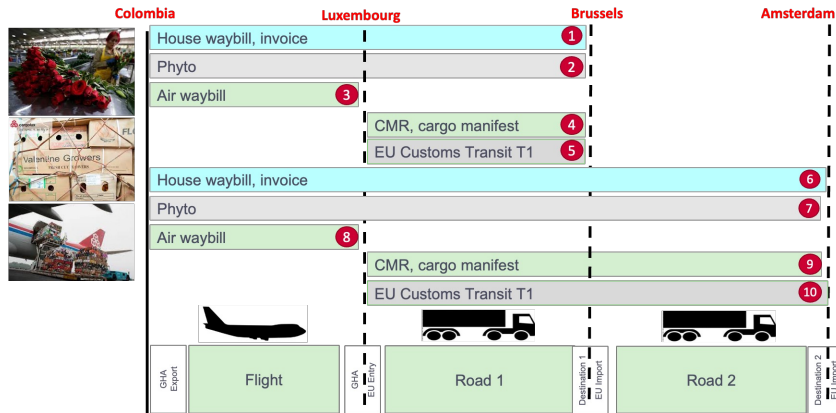


Living Lab 17

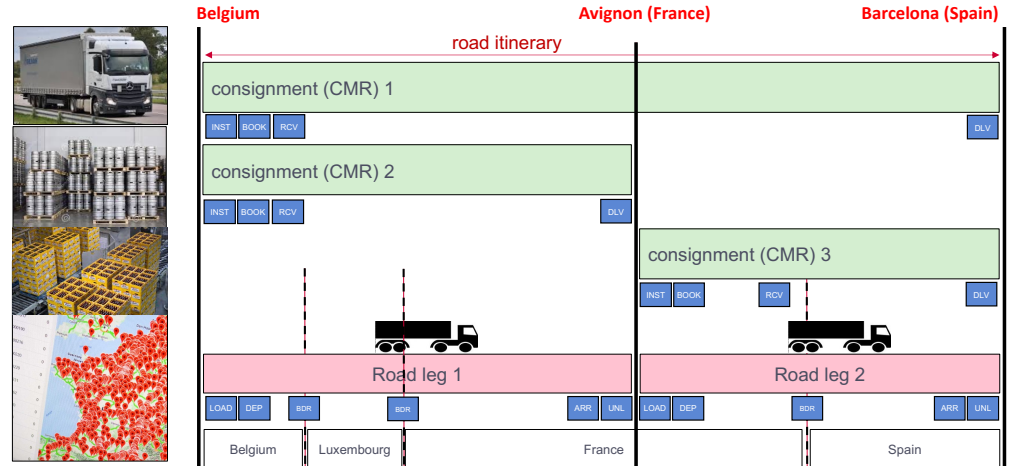


LL17 reference use cases

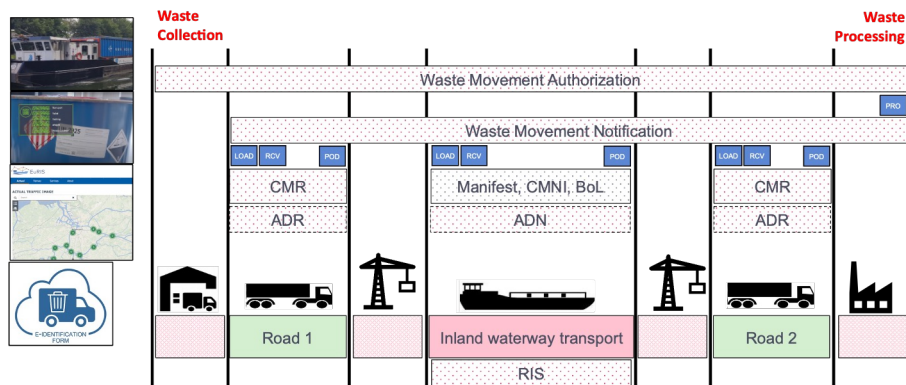
Roses for Valentine



Beer and Wine to Barcelona



Multimodal transport of Waste



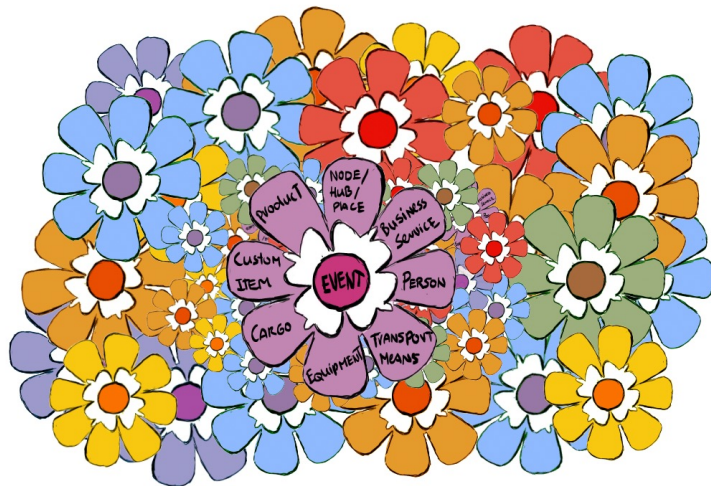
In summary

1. Data is shared at the source
2. Use the same data, process and architecture for commercial, transport and border compliance.
3. API and Interoperable semantics
4. Decentralised architecture, verifiable credentials



INVITATION TO JOIN US

EU DATA LOGISTICS FESTIVAL - BRUSSELS - 30 NOVEMBER 2023



LET'S MEET AT THE FEDeRATED FINAL EVENT

Stanhope hotel, 9 rue du Commerce, 1000 Brussels

09.00 hrs- 18.00 hrs



The FEDeRATED project is co-financed by the European
Commission Connecting Europe Facility (CEF)

30 November 2023

[Register here](#)