

Find Space for Mobility and Logistics Data #2

26th March 2025

14:00 – 15:30 CET



Ministerie van Infrastructuur
en Waterstaat



DELPHI

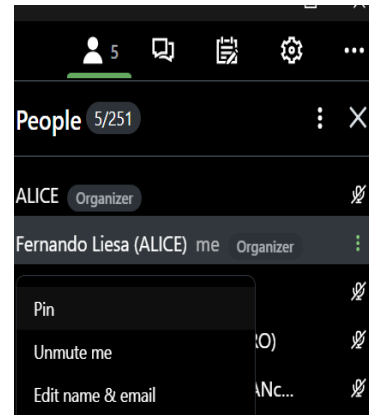
alice

Alliance for
Logistics Innovation
through Collaboration
in Europe

Rules for the webinar

*Waiting for
other
participants
to join... 😊*

- The **session will be recorded** in case you or other ALICE members wish to have a look afterwards. A link to the video recording and pdf presentations will be shared with participants through e-mail.
- Please, **keep your microphone muted when the meeting starts and your cameras off if you are not speaking**. You can introduce yourself when entering the meeting so you do a test (i.e. everybody can hear you) 😊
- Please, **add your name and company** to identify yourself →
- Please, **share your questions to the speakers in the GoTo chat**. You are also welcome to share thoughts, suggestions or relevant information on the subject



You may ask any question on these rules before the start!

agenda

- **1. Introduction**
- Marion Cottet – [ALICE](#)
- **2. Data exchange use case presentation – [DELPHI project](#)**
- Mihai Hulea – [NTT DATA Romania](#)
- **3. BoostEDIC project updates**
- Jon Kuiper – [Ministry of Infrastructure and Water Management of the Netherlands](#)
- **3. Q&A session**
- Moderated by Giannis Kanellopoulos – [ICCS](#), [DELPHI](#) coordination & [ALICE](#) TG3 vice-chair
- **4. Wrap up-next steps**
- Giuseppe Luppino – [ALICE](#)

- Recognized by EC as **European Technology Platform**
- **180+ members**, stakeholders from logistics & supply chain

EU Projects

Innovation uptake &
knowledge management

Influence

Membership engagement

5 thematic groups (TG)

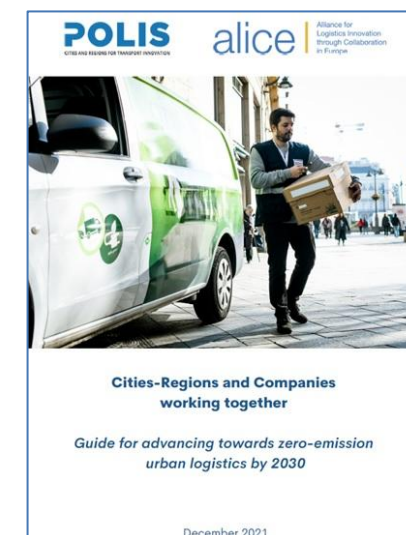
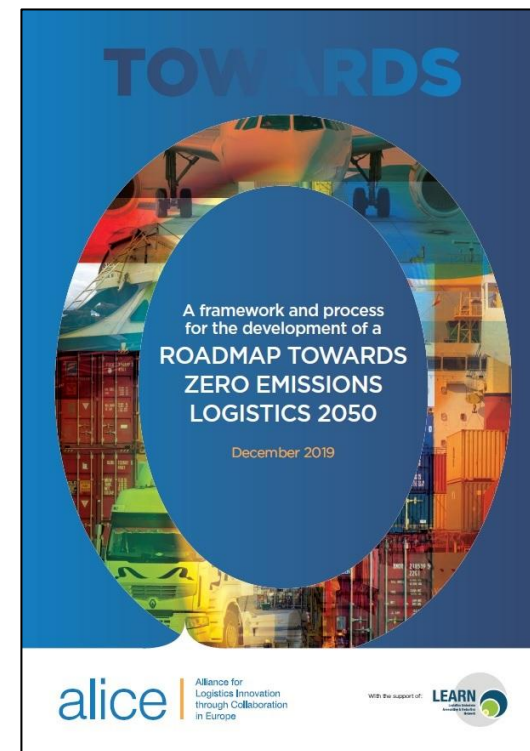
TG1. Efficient and Low
Emissions Assets and
Energy

TG2. Corridors, hubs and
Synchromodality

TG3. Systems and
Technologies for
Interconnected Logistics

TG4. Supply Network
Coordination and
Collaboration

TG5. Urban Logistics





Online Analytics Processing Platform

Cluj-Napoca Dataspace Use-Case

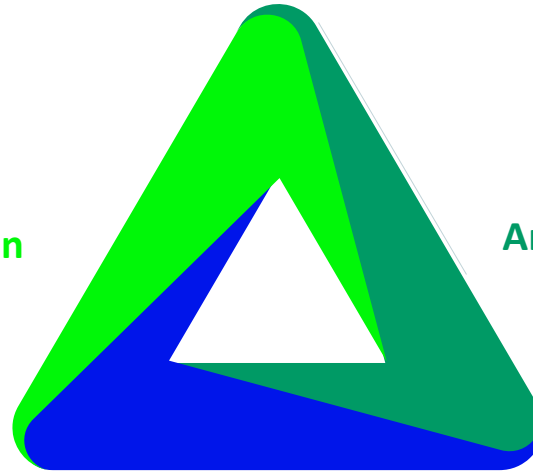
Mihai Hulea

DELPHI concept

DELPHI focuses on the strategic dimension of **integrating passenger and freight transport** in a single system, working towards integrating sectors, harmonizing data, and leveraging advanced methodologies, to transform transportation systems, for a sustainable future.

1st pillar
Governance, Ecosystem specification

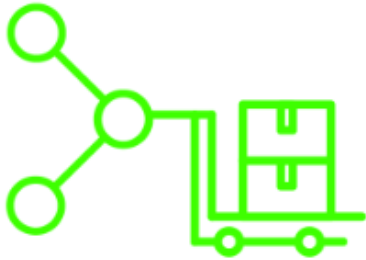
2nd pillar
Architecture, Data, Processing, Optimisation



3rd pillar
DELPHI Validation activities through realistic pilot demonstrations

DELPHI use-cases

DELPHI's federated ecosystem will be extensively evaluated in real life settings through four pilot demonstrations across the participating transportation networks located in Spain (**Madrid**), Greece (**Athens and Mykonos**), and Romania (**Cluj-Napoca**).



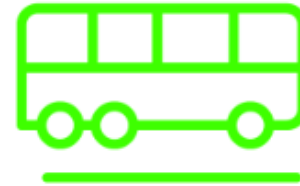
USE CASE #1

Multimodal transport for a Sustainable LMD supported by blockchain **for sharing economy** in the e-commerce Channel (Spain)



USE CASE #2

Integrated freight and passengers' models and **data sharing framework** in the Attica region (Greece)



USE CASE #3

Integrated freight and passengers' models and **data sharing framework** at the island of Mykonos (Greece)



USE CASE #4

Integrated passengers' models and **data sharing governance framework** in the Cluj-Napoca Metropolitan Area (Romania)

Cluj-Napoca Municipality

Current Status & Issues

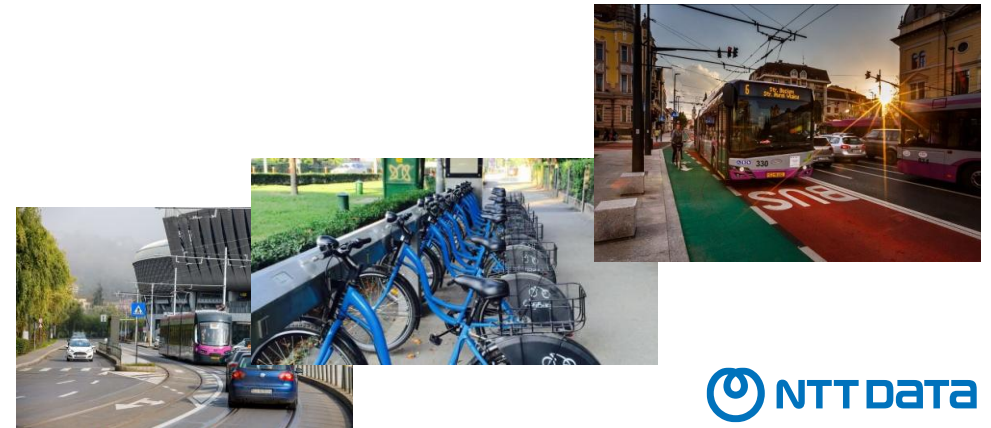
- **Fragmented IT Systems:** Data silos across transportation services (bus, tram, bike-sharing, parking).
- **Limited Integration:** Difficulty accessing and analyzing multimodal transport data or build new services on top of the existing ones.

Benefits & Objectives

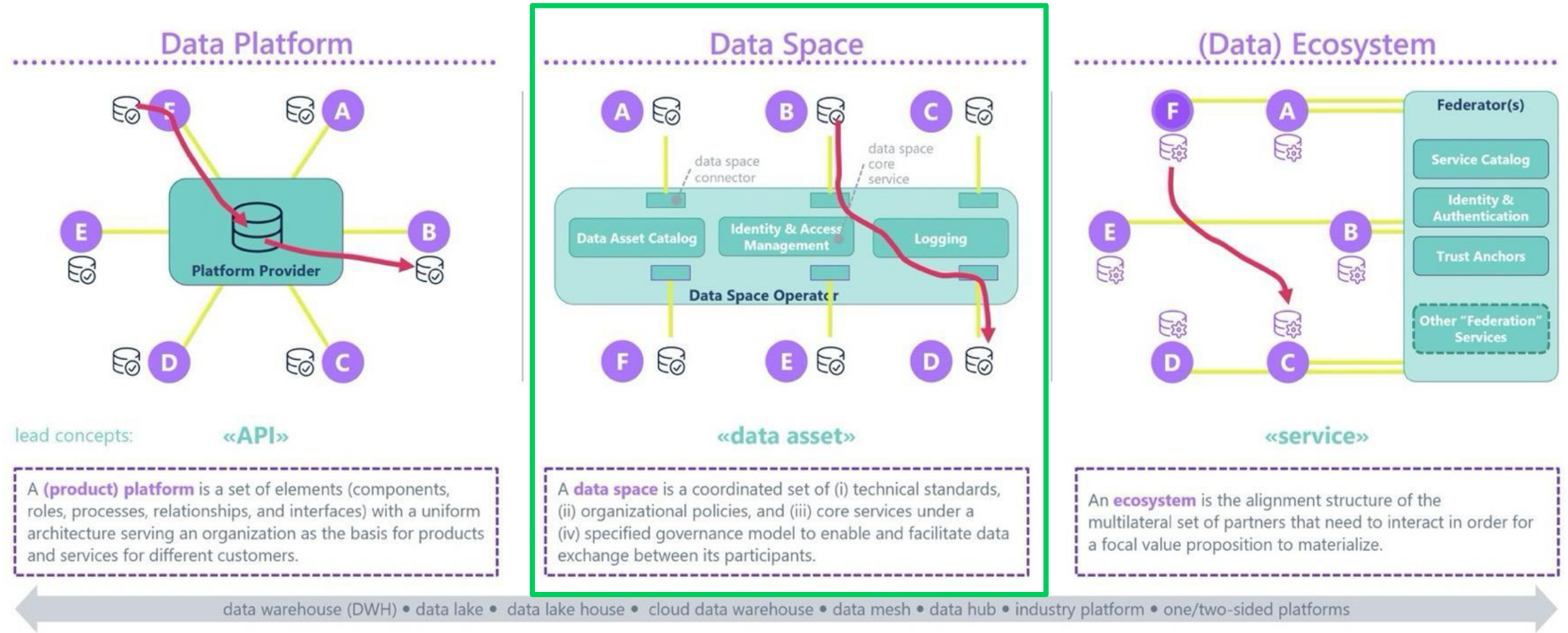
- **Unified Data Integration:** Analytics of multimodal transportation data.
- **Data-Driven Decision Making:** Real-time insights for better urban transport management.
- **Public Transparency:** Open data access and improved citizen engagement.

Cluj-Napoca – Urban Context

- **Location:** Northwestern Romania; economic and academic hub of Transylvania
- **Population:** ~330,000 residents (metropolitan area: ~400,000+)
- **Area:** ~180 km²
- **Economic Profile:** Major IT, education, healthcare, and services center
- **Transport Infrastructure:**
 - **Public Transport:** Extensive bus, trolleybus, and tram network (CTP Cluj)
 - **Road Network:** High urban traffic; city ring road and highway access (A3)
 - **Rail:** National and regional train connections (CFR)
 - **Air:** Cluj International Airport – second busiest in Romania

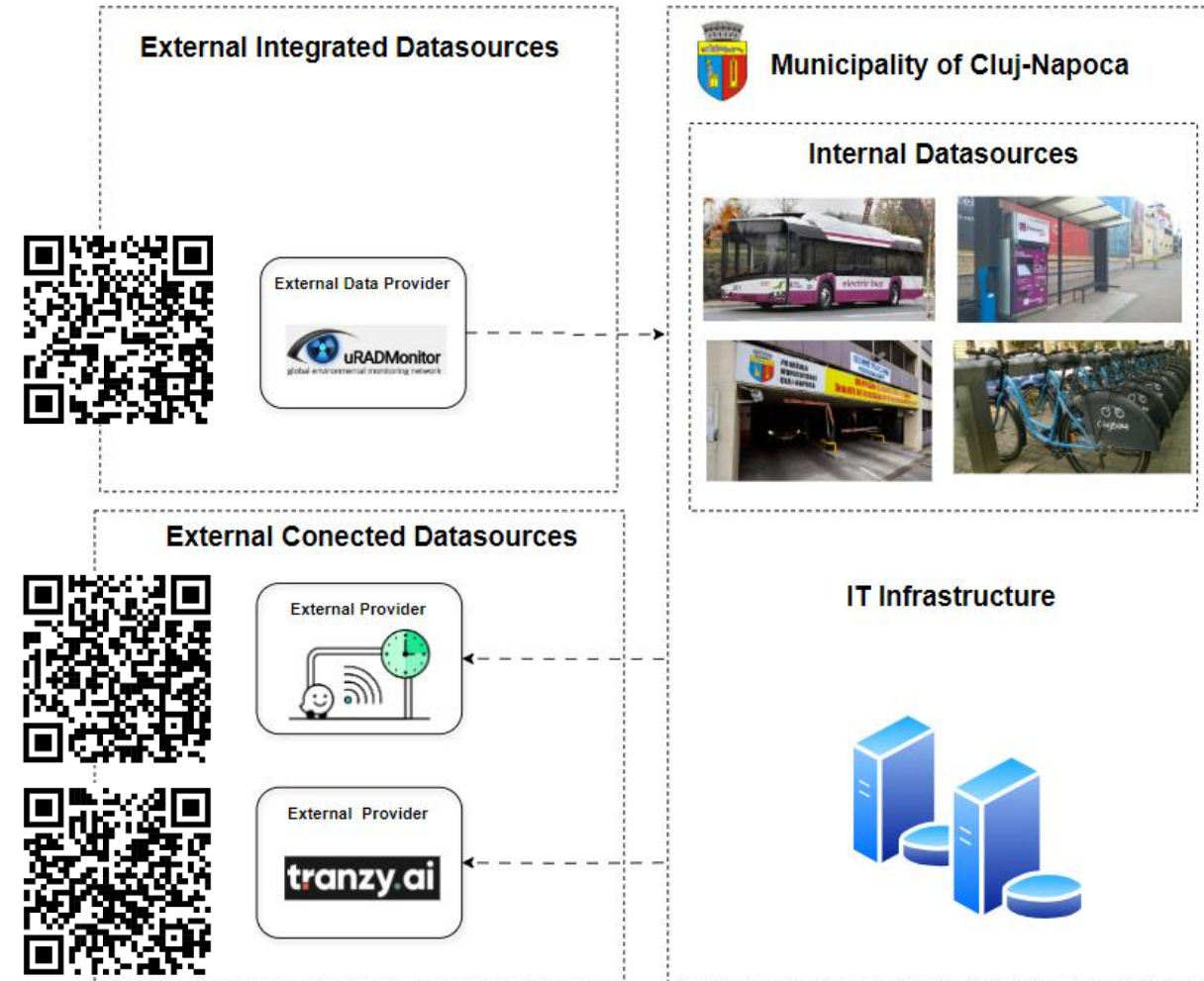


Data Sharing Models



Source: Strnadl & Schöning (2023). Data platforms, Data Spaces, and (Data-) Ecosystems. in: Weber (Ed.), Data Governance. Springer

Analysis of Datasources and Legacy Systems



Internal Datasources

- Provided by or under control of internal IT systems
- Exposed by internal IT systems

External Integrated Datasources

- Provided by external systems
- Integrated with internal IT systems which can be exposed or provided by these

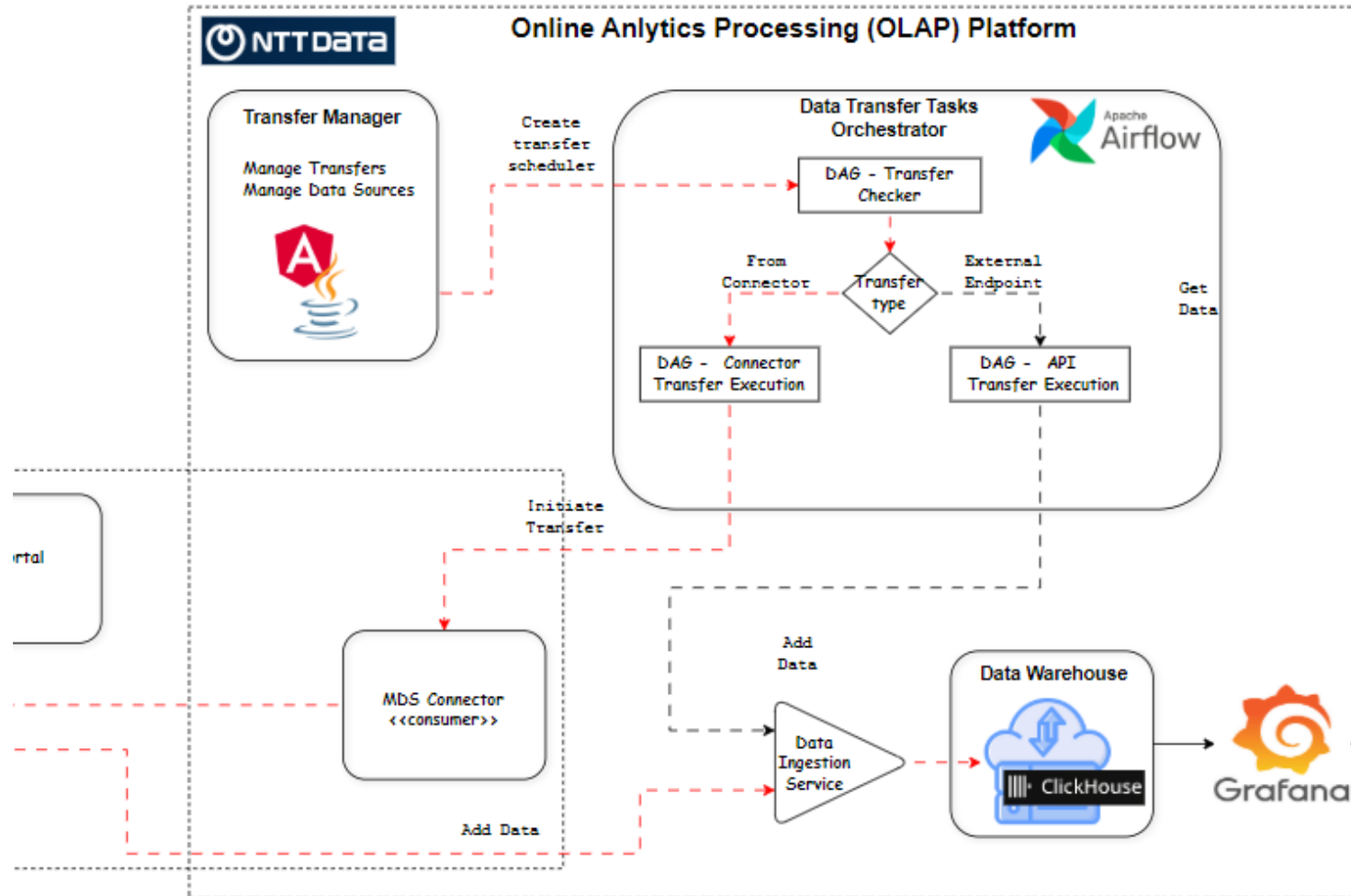
External Connected Datasources

- Provided by external systems
- Some integration exist but data are not exposed by internal IT systems

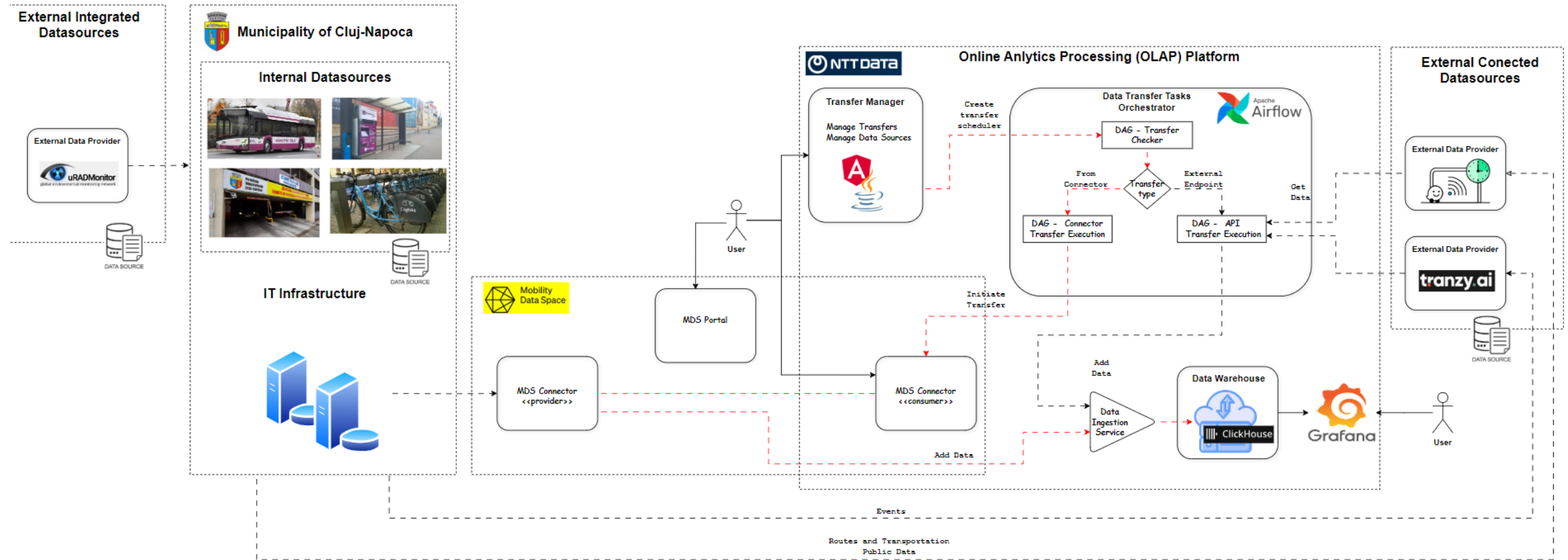
Dataspace Governance



Online Data Analytics Platform



Complete Solution & Demo



Conclusions

•Platform Development Status:

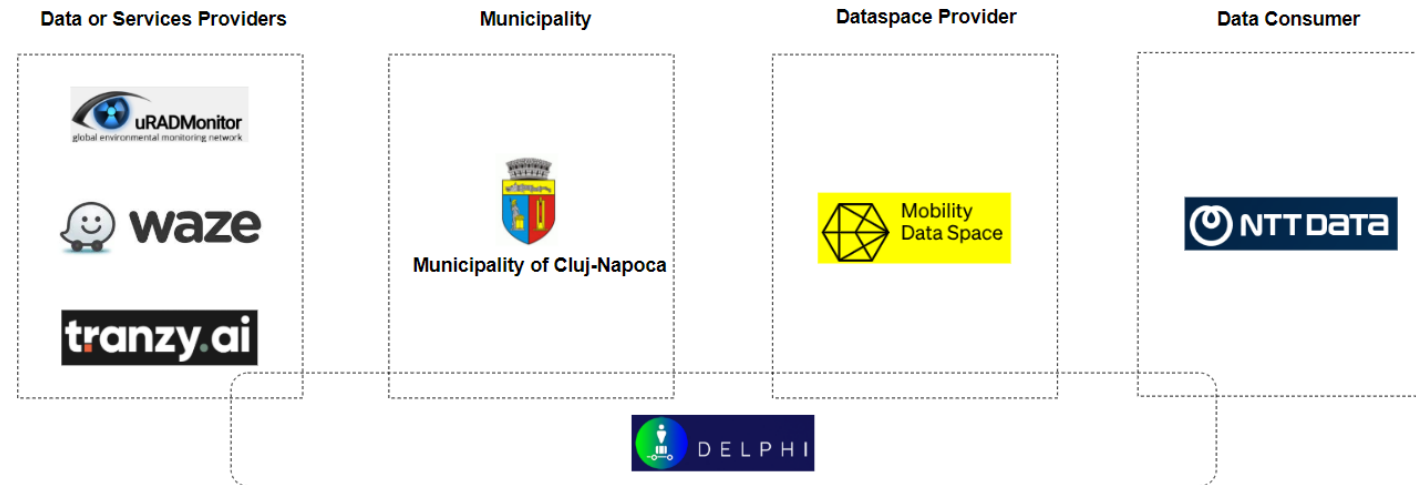
- Currently under development; full evaluation planned as part of DELPHI WP5 demonstration activities.

•Effective Collaboration:

- Successful implementation **through strong partnership with Cluj-Napoca Municipality.**
- Municipality demonstrated openness and **proactive approach towards adopting new technologies.**
 - Join MDS
 - Access Waz Partnership Program

•Technical Integration:

- Close **cooperation with Cluj-Napoca's IT department to analyze legacy systems** and available data sources.
- **Joint execution of administrative and technical procedures** for joining the Mobility Data Space, configuring connectors, and data integration.



THANK YOU

agenda

- **1. Introduction**
- Marion Cottet – ALICE
- **2. Data exchange use case presentation – DELPHI project**
- Mihai Hulea – NTT DATA Romania
- **3. BoostEDIC project updates**
- Jon Kuiper – Ministry of Infrastructure and Water Management of the Netherlands
- **3. Q&A session**
- Moderated by Giannis Kanellopoulos – ICCS, DELPHI coordination & ALICE TG3 vice-chair
- **4. Wrap up-next steps**
- Giuseppe Luppino – ALICE



European Digital Infrastructure Consortium

for Mobility and Logistics

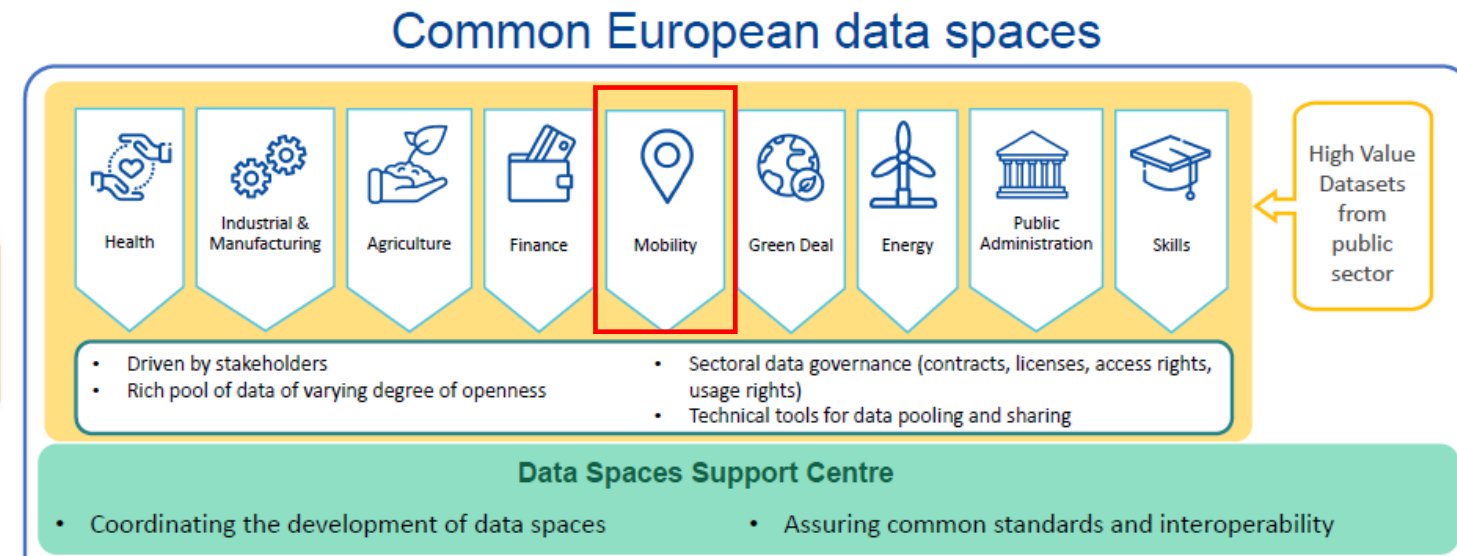
Jon Kuiper

ALICE webinar

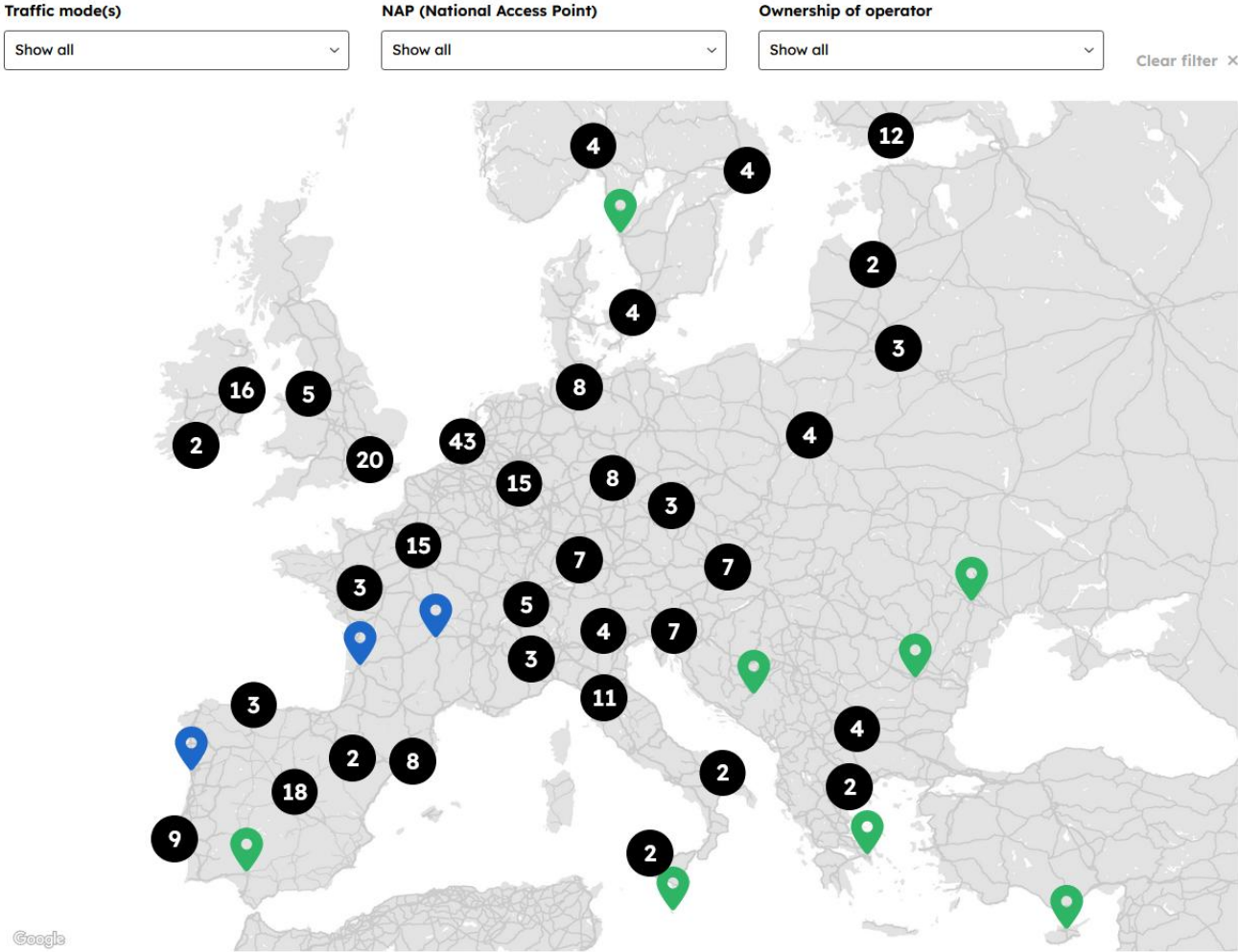
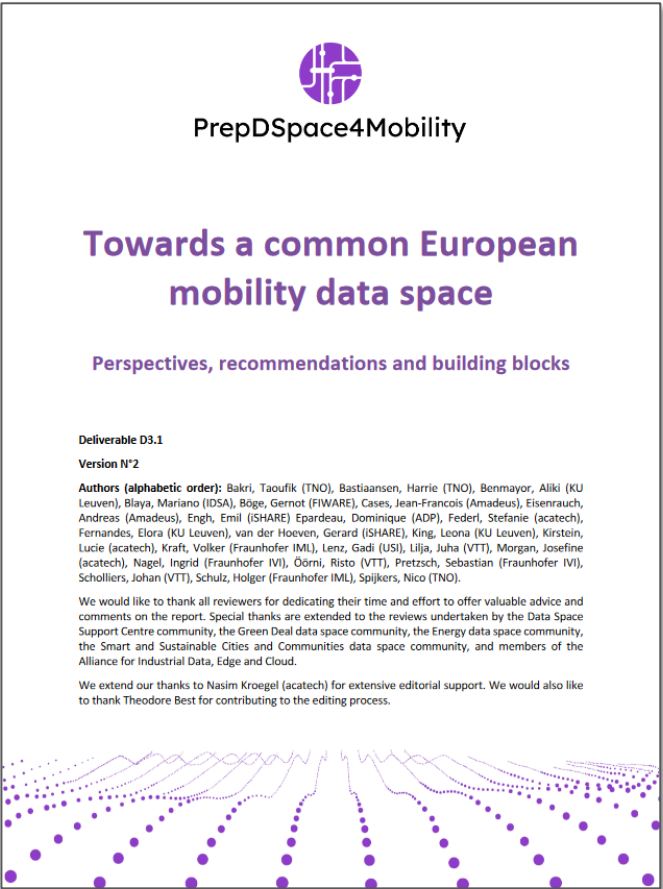
26 March 2025



The European Mobility Data Space



Multiple Data Space initiatives in Europe



The EDIC

- › The EDIC, a new instrument of the European commission (since early 2023)
- › The objectives of EDICs is to bring together EU, national and private initiatives to create a sustainable digital infrastructure for Europe.
- › No individual projects anymore, but a collaboration between private and public actors leading to standardisation through the implementation of “Multi Country Projects”

The ambition of the EDIC

- To become an organisation focused on the execution of large cross-border use cases in Europe
- To help drive the alignment on common standards among in the EMDS ecosystem, especially on*:
 - Interoperability: my data space can exchange data with other data spaces
 - Discoverability: I can find data in multiple data spaces
 - Trust: I can trust the participant in the data space I am exchanging data with
- Contribute to the realisation of the EMDS under the guidance of the EC and contribute to the objectives of the Digital Decade Policy Programme 2030

* As per the recommendations of the PrepDSpace4mobility CSA

BoostEDIC and EDIC

- › The EU has awarded a grant to a consortium of member states and research institutes
- › This grant provides the consortium with the opportunity to run an organisation for 4 years and subsidize (50%) cross-border use cases (10M Euro budget)
- › This subsidy will be awarded based on (to be) defined standards for the cross-border project (governance, technical etc.)
- › The EDIC will become a beneficiary of BoostEDIC and therefore BoostEDIC will provide for a good start of the EDIC.

- 
- Participants in the BoostEDIC project
 - Member states and research organisations
 - Connekt is consortiumlead
 - Acatech as co-lead

Name (Country)	Role
Connekt (NL)	Coordinator, FSTP budget
acatech (DE)	Co-coordinator, lead WP2
AustriaTech (AT)	Lead WP3
BMDV (DE)	
Circle (IT)	Lead WP5
EIT Urban Mobility (ES)	Lead WP4
EONA-X (FR)	
Ertico (BE)	
Fintraffic (FI)	
Fraunhofer (DE)	
Industry Innovation Cluster (SK)	
IMEC (BE)	
InLecom (BE)	
LIST (LU)	
Maas-Alliance (BE)	
Magellan Circle Italy (IT)	
Min. of Transport (SK)	
Min. of Infrastructure and Water Management (NL)	
Min. of Transport & Mobility (ES)	
TNO (NL)	
TRAFIKVERKET (SE)	
VTT (FI)	
Federal Min. for Climate Action (AT)	Associated partner
ITS Ireland (IE)	Associated partner

Key aspects of the project



Ten cross-border use cases in mobility and logistics connected to the development of the European Mobility Data Space

Catena-X, EONA-X, Dutch BDI? Connections



One common reference architecture

Based on DGMOVE and “Deploy EMDS” architecture



One governance structure under BoostEDIC

Which will migrate to EDIC M&L when this organisation is operational

BoostEDIC main objectives



BoostEDIC strategically important for the creation of the European Mobility Data Space



As it will create operational implementations: cross-border connections between (existing) European Data Space initiatives



Implementing a continuous improvement cycle (PDCA) so (theoretical) reference architecture will be tested and improved in practice



One BoostEDIC/EDIC governance process under DGMOVE

BoostEDIC next steps

- Start of the project during Q2 2025
 - Organisation
 - Joint definition of technical reference structure
- First calls open during Q4 2025
- First implementations start 2026
- Be there!

Thank you for you attention



Jon Kuiper
Jon.Kuiper@minienw.nl
+ 31 6 152 48 244

Questions & discussion

Moderated by **Giannis Kanellopoulos**

ICCS, DELPHI coordination & **ALICE** TG3 vice-chair

ALICE Brokerage Event 2025

- Date: 2–3 April 2025
- Location: Tangla Hotel, Brussels
- An event designed to foster collaboration, innovation, and knowledge sharing among logistics and supply chain professionals.
- More information and registration [here].
- ⚠ Please note: Without registration on b2match, your participation is not valid, and you will not be able to attend the event.

TG5 - POLIS-ALICE Webinar Series: Mixed Use of Urban Space for Urban Logistics

- 9th April 2025, 11:00 AM CET
- Integration of Passenger & Freight Transport

Transport Logistic 2025

- Date: June 2–5, 2025
- Hall A3, Stand 400
- Visit our booth and discover how our proposed solutions can help make logistics more resilient, green, and digital.

TG2 Workshop

- Advancing Inland Waterways with Digital Twins, Exploring CRISTAL project innovations and MultiRELOAD project demonstrator.
- <https://www.etp-logistics.eu/advancing-inland-waterways-with-digital-twins-exploring-cristal-project-innovations-and-multireload-project-demonstrator/>

TG3 Upcoming Webinar

- The third webinar on AI and Digital Twins will be announced soon.
- Topic: Design and Development of Urban Digital Twins and Data Pipeline to Enhance Data Analytics in Construction Logistics for Sustainability and Environmental Goals.