

Data Spaces Symposium

15:30

**Realizing multimodal mobility and sustainable
tourism – with data spaces as enablers**

Domain session [mobility & tourism]

Introduction and welcome

Domain session [mobility & tourism]

Realizing multimodal mobility and sustainable tourism - with data spaces as enablers

Manuel Gutiérrez de Diego : Gaia-X
Mariano Blaya Andreu : IDSA

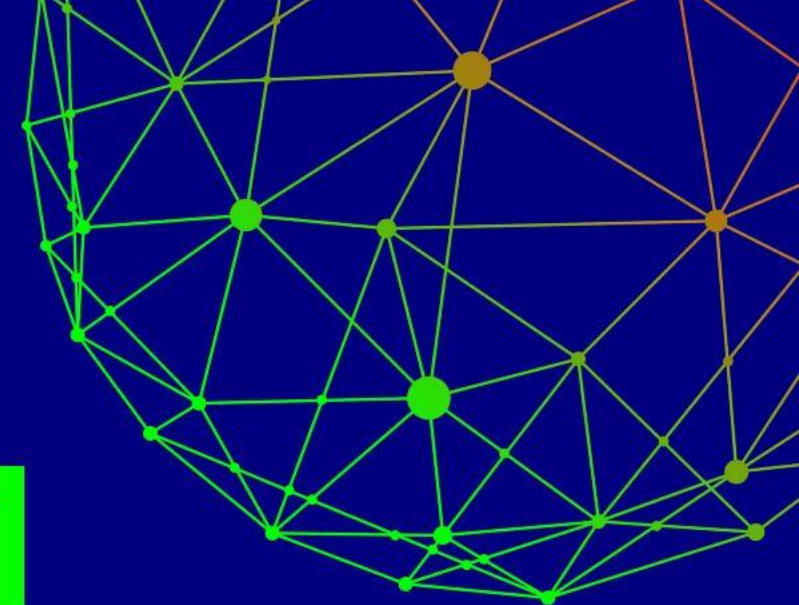
| | |
|---|--|
| Introduction | Mariano Blaya-Andreu |
| Overall strategy for common European data spaces and how to promote convergence and interoperability across data spaces | Moderation: Dimitrios Gkatzoflias EC PO Mobility: Kristof Almasy DeployTour - Peio Oiz – AnySolution deployEMDS – Christopher Newman – acatech DSSC - Mariano Blaya-Andreu – IDSA |
| Integrating data ecosystems | Moderator: Victor de Vries Tampere - Johan Scholliers – VTT Japan Mobility DS - Ryunosuke Ichikawa - NTT Data Eona-X - Jonathan Huffstutler SEGITTUR - Oriol Izquierdo - T-Systems Iberia |
| Creating value for participants in mobility and tourism data spaces | Moderator: María Tomás – ForwardKeys Tango – Juan Ortells – AnySolution Datamite – Daniel Saez – ITI deployEMDS - Jim Ahtes - i2cat MDS - Norbert Baumert – acatech |

Data Spaces Symposium

Share data. Unlock value. Boost impact.

11 & 12 March 2025

Realizing multimodal mobility and sustainable tourism –
with data spaces as enablers



Mariano Blaya-Andreu
IDSA



Dimitrios Gkatzoflias
European Commission



Peio Oiz
AnySolution



Christopher Newman
acatech

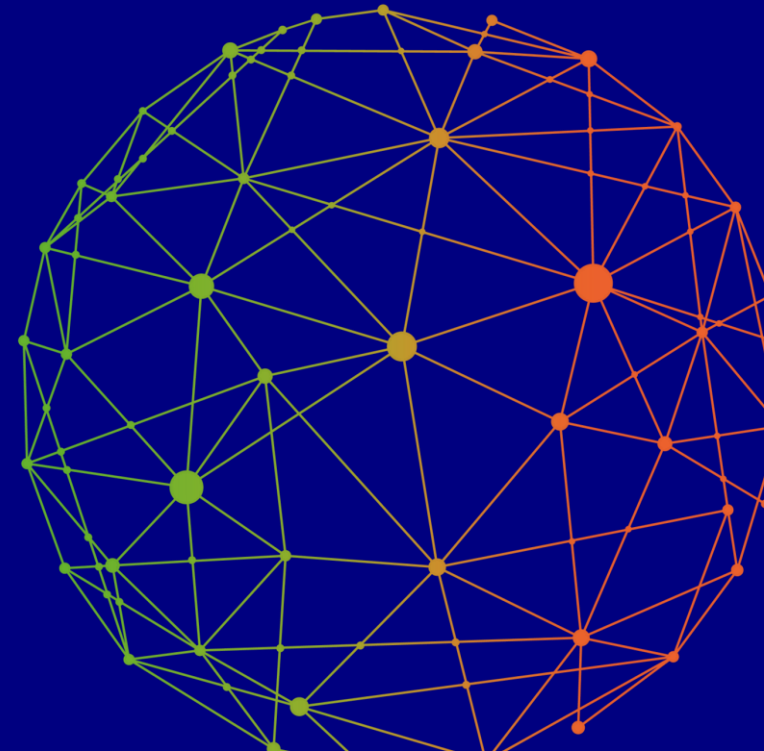


Kristóf Almásy
European Commission

Overall strategy for common European data spaces and how to promote convergence and interoperability across data spaces

Realizing multimodal mobility and sustainable tourism – with data spaces as enablers

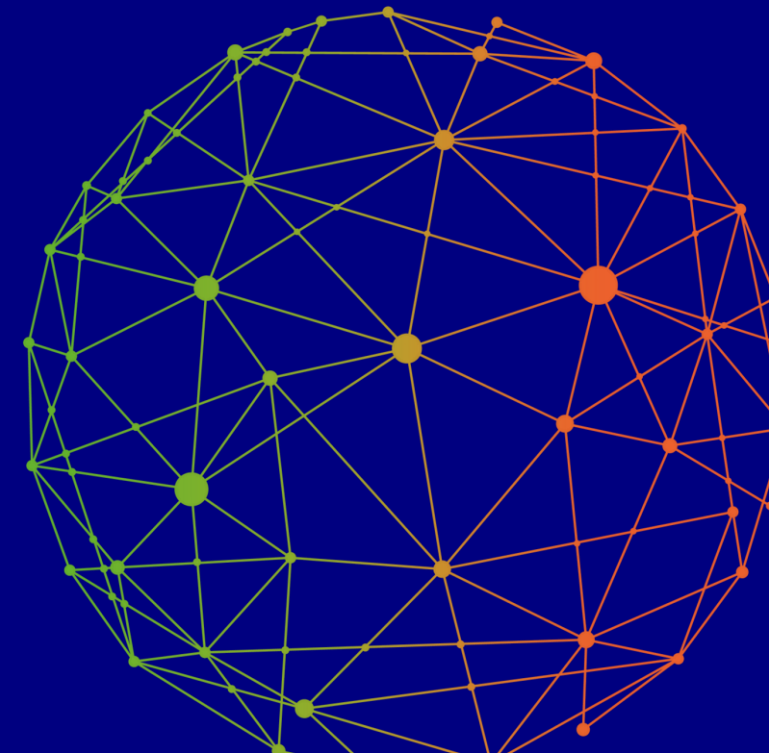
Data Spaces Symposium 2025



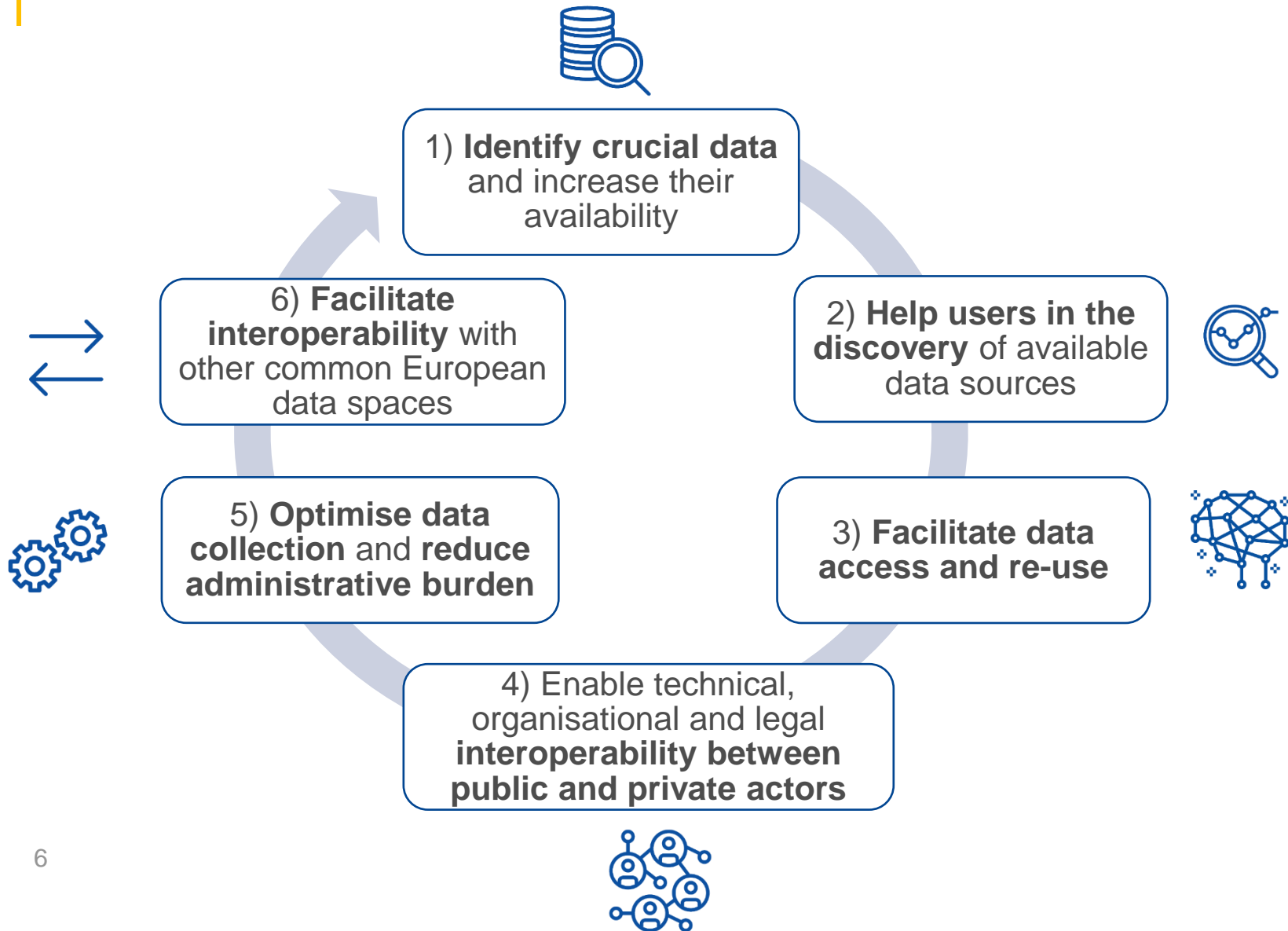
Funded by
the European Union

The Data Spaces Support Centre receives funding from the European Union Digital Europe Programme under grant agreement n° 101083412

common European mobility data space (EMDS)



EMDS Objectives



common European mobility data space (EMDS)

Communication

[COM\(2023\) 751](#) - adopted 29 Nov. 2023

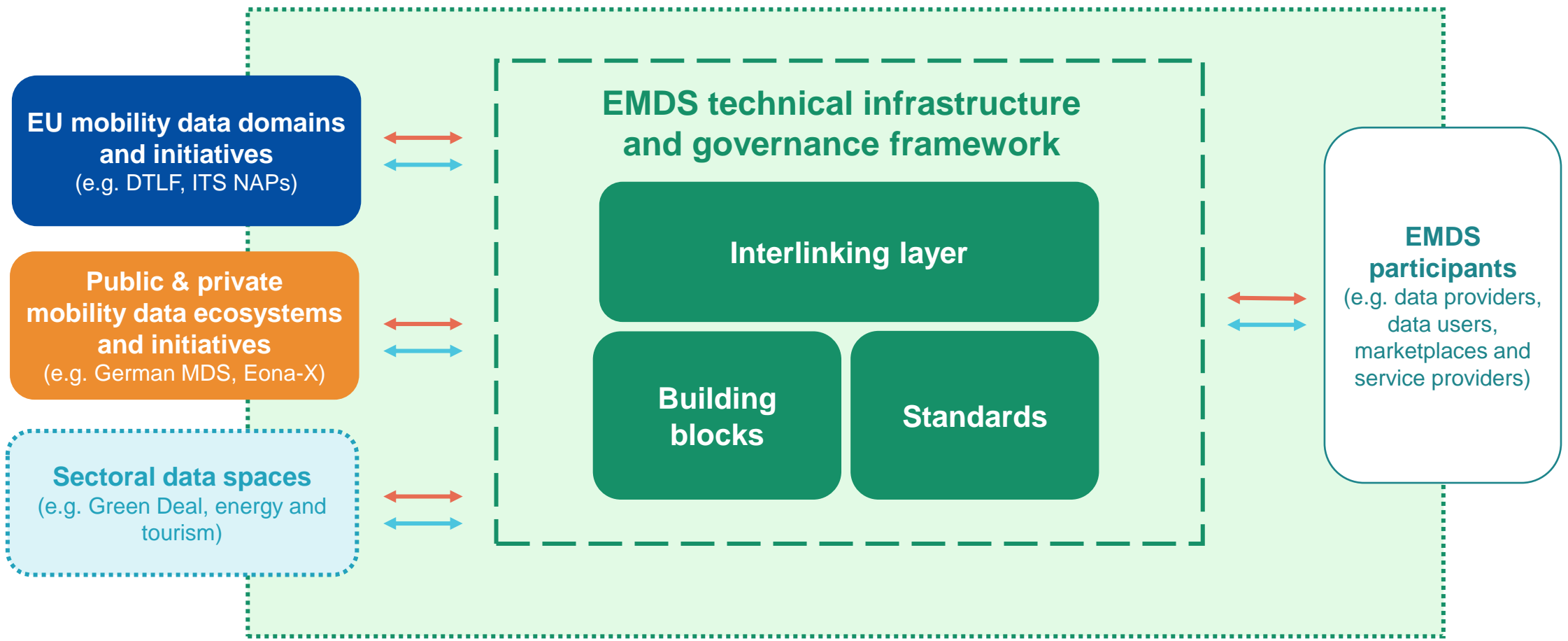
Outlines the:

- Objectives
- main components
- supporting measures
- milestones



EMDS framework

Envisioned concept



- data access/sharing
- metadata flows

Actions supporting the common European mobility data space - preparation



Preparatory action


Digital Europe Programme

12 months coordination & support action:

[PrepDSpace4mobility](https://www.prepd-space4mobility.eu)

Oct 2022-Sept 2023 

→ Map existing mobility data ecosystems

→ Recommend first common building blocks 

PrepDSpace4Mobility

Technical assistance

Connecting Europe Facility

12 months study (extended to 15 months)

Kick-off Jan 2024 

Followed by a deployment action in 2025 (TBC)

→ Focus on **governance & the interlinking layer**

→ **Final webinar** (March 14th)



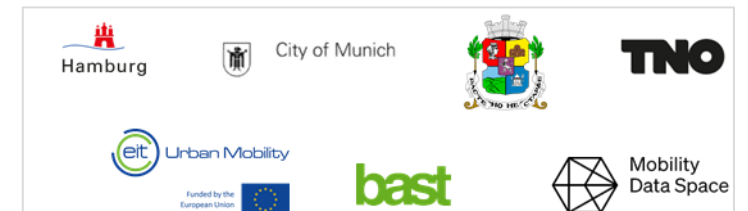
- Building on the **Data Spaces Support Centre** and **SIMPL**

deployEMDS

- **36 months** (Nov 2023 – Oct 2026)
- **EUR 8 million** (funded under the Digital Europe Programme)
- **38 beneficiaries** (cities, regions, technical & domain expertise) | **7 associated partners**
- Creation of two networking and collaboration groups¹ :
 - Network of Follower Cities and Regions
 - Innovation and Scaling Group



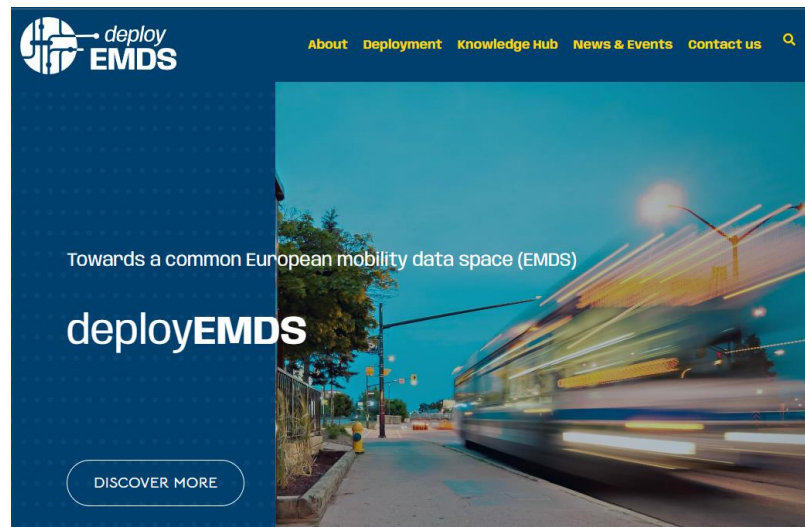
Associated Partners



¹ Open also to [participating countries](#) in the Digital Europe Programme

deployEMDS

- **45 European partners** deploy a functioning technical infrastructure for the EMDS
- across **9 European cities/regions**
- addressing **use-cases** that focus on **traffic** and **urban mobility** indicators
- For more info: <https://deployemds.eu/>



Scaling up and sustaining the EMDS



Multi-country project Digital Europe Programme

48 months, expected start **Q2 2025**

€15 million EU funding

Help establish a **lasting collaboration structure**, support information exchange and coordination

Support the **deployment of cross-border use cases** (through financial support to third parties)



EDIC for Mobility & Logistics

European Digital Infrastructure Consortium: mechanism to implement **multi-country projects**

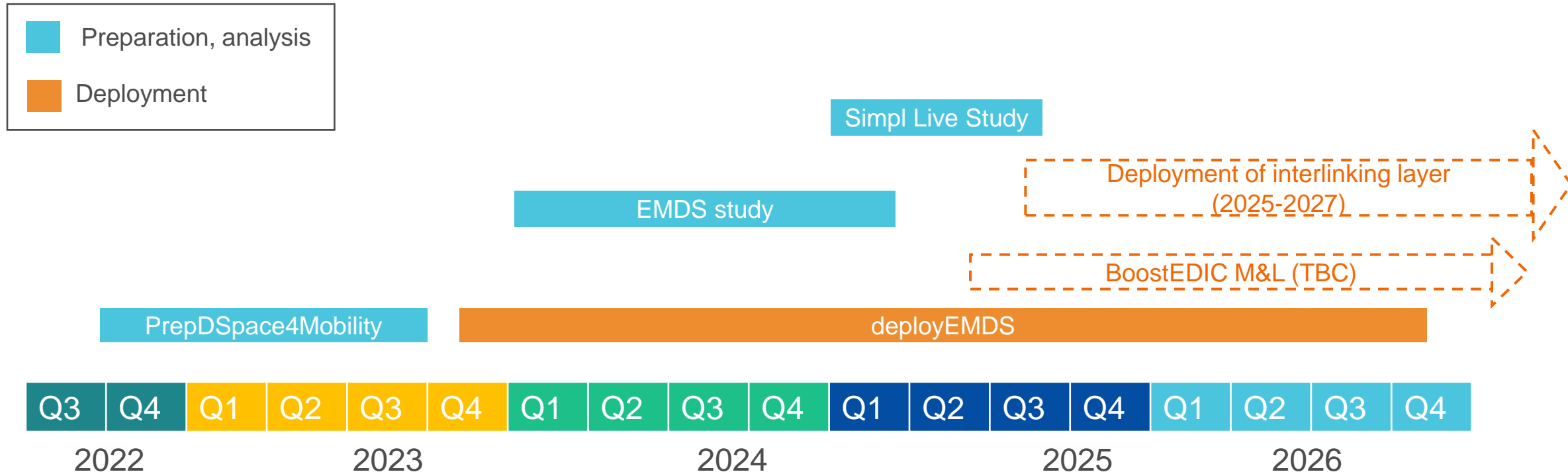
10 Member States and 30+ organisations involved in the preparation of an application

Activities: Support the **deployment of cross-border use cases**; bring together Member States and key actors to **share knowledge**, coordinate and define collective agreements as a basis for **sustainable digital infrastructure**.

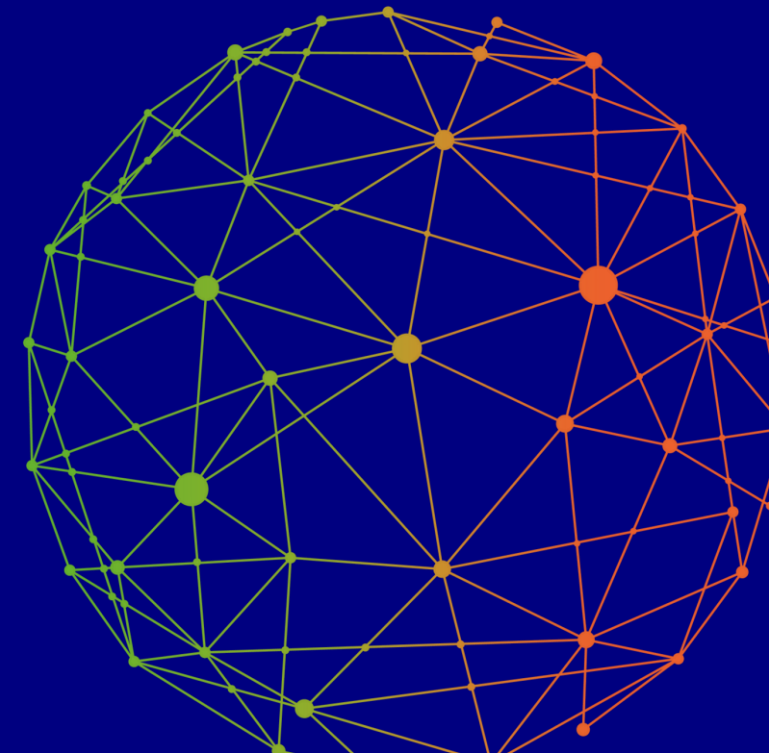
Application expected in 2025

TO BE CONFIRMED

Timeline for the EMDS actions



common European tourism data space



A common European tourism data space

data sharing remains a top priority

EUR 8 million also in 2025
(funded under the Digital Europe Programme)

A priority of the new European Strategy for Sustainable Tourism (2026)

Please help us shaping it by answering our public consultation (COMING SOON!)

DEPLOYTOUR

European Tourism Data Space



<https://deploytour.eu/>

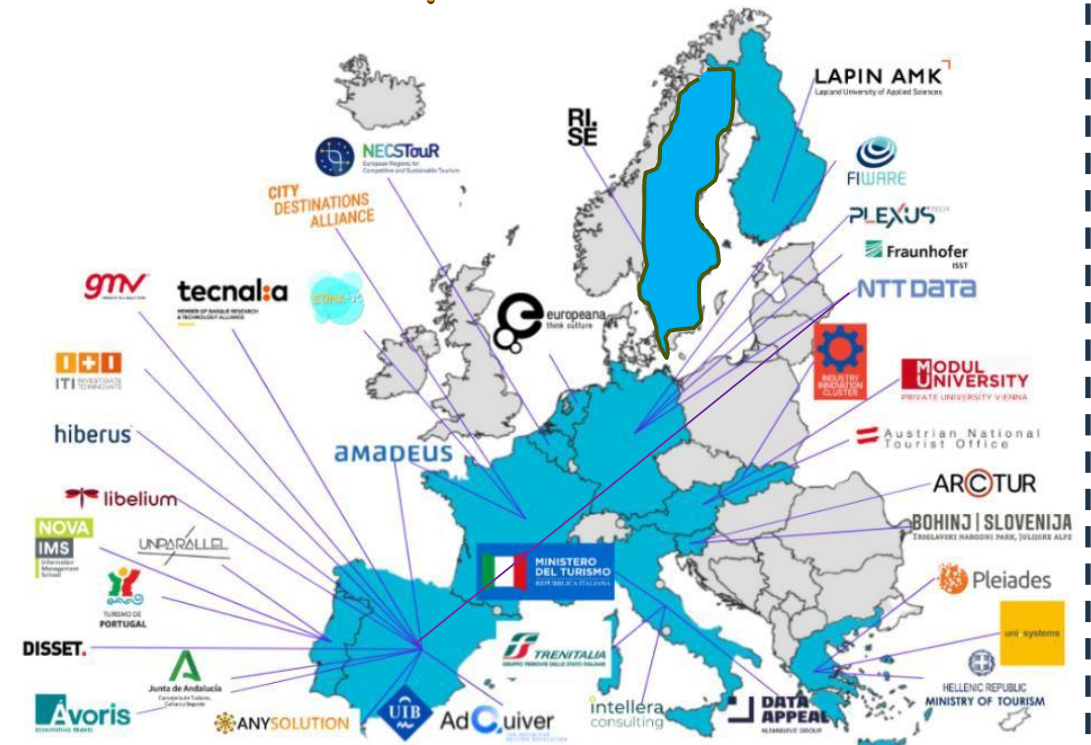
1. Create and implement the **technical infrastructure** for the common European tourism data space (ETDS), utilizing existing frameworks and tools while prioritizing coordination and alignment with the **DSSC** and **Simple initiative**.
2. Establish a **governance framework** by outlining the rules and responsibilities of the various stakeholders engaged in the management of the future ETDS.
3. Create **pilot projects and use cases** to incorporate a European perspective, encompassing various tourism sub-sectors and different forms of tourism. These pilots will serve as beacons, clearly demonstrating the concrete benefits of the ETDS and its influence on the European tourism industry.
4. Guarantee the compatibility, cross-functionality, complementarity, and collaborative efforts with other **data and tourism initiatives**.
5. Develop a comprehensive strategy for effective dissemination, **communication, and exploitation strategy**.

41 Partners: 37 official + 4 affiliated

13 Countries

4 Ministries: Italy, Greece, Portugal and Austria

Coordination  ANYSOLUTION



DEPLOYTOUR

European Tourism Data Space



<https://deploytour.eu/>

TSI · EDIC · **DEHUB** · NATIONAL & LOCAL
ALIGNMENT & SYNERGIES

GOVERNANCE & INTEROPERABILITY
MECHANISMS

REAL USE CASES



Mobility DS Cultural Heritage DS Agri DS

Smart Cities DS Green Deal DS Skills DS

DSSC SIMPLE
INFRASTRUCTURE

PILOT 5: Empowering Tourism SMEs through a Collaborative Travel Tech Data Space and App Marketplace

Key partners: University of Lapland (FI)

Data types:

Relevant Data Spaces:

PILOT 3: MICE Industry Support

Key partners: AMADEUS (ES), EONA-X (FR)

Data types:

Relevant Data Spaces:

PILOT 2: Mature Destination Resilience and Competitiveness

Key partners: Turismo Andalusia (ES), Adquirer (ES), AnySolutions(ES)

Data types:

Relevant Data Spaces:

DATA SPACE FOR SMART AND SUSTAINABLE CITIES AND COMMUNITIES

PILOT 1: Sustainable Tourism Management of Alpine Regions

Key partners: ARCTUR (SI); ANTO (AT); TRENITALIA(IT)

Data types:

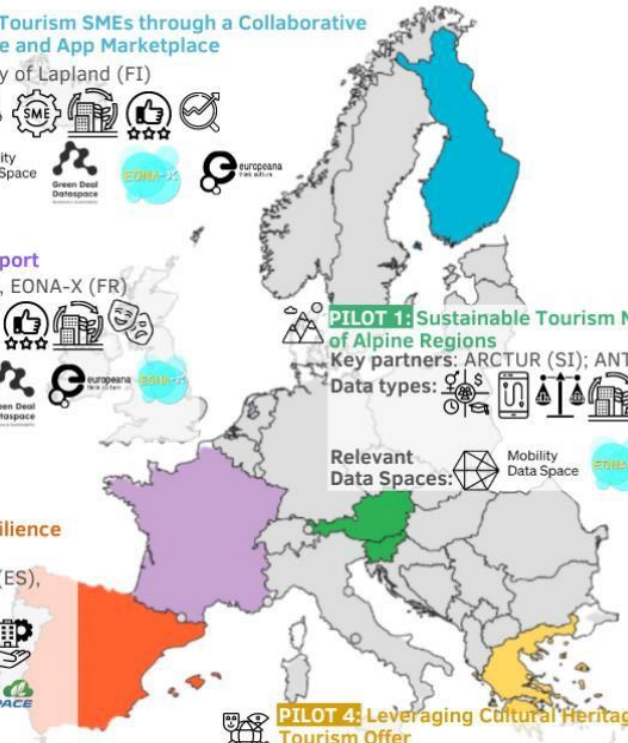
Relevant Data Spaces:

PILOT 4: Leveraging Cultural Heritage to Diversify Tourism Offer

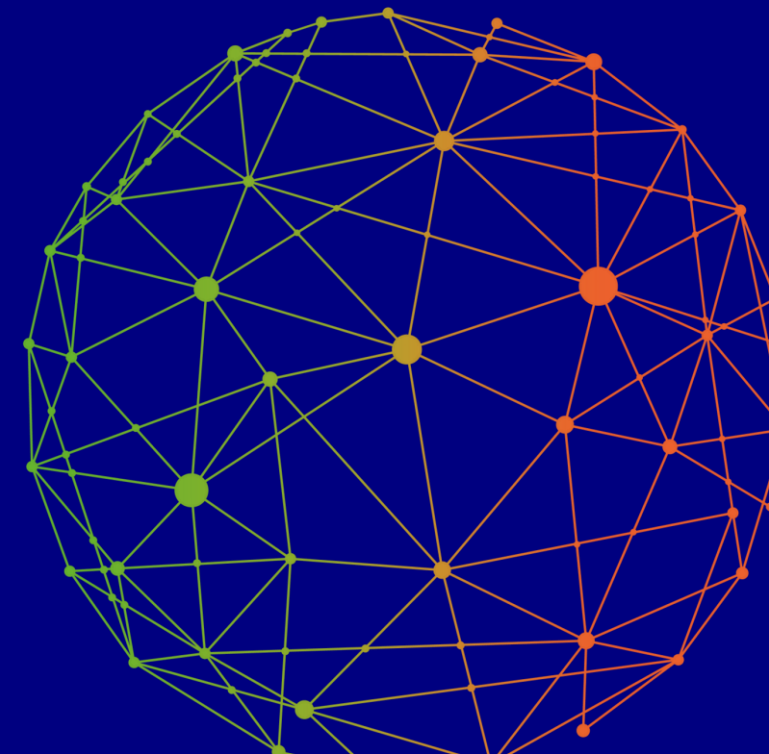
Key partners: Cluster Pleiades (GR), Europeana (NL)

Data types:

Relevant Data Spaces:



**Promoting convergence
and interoperability
across data spaces**



EU initiatives supporting convergence & interoperability

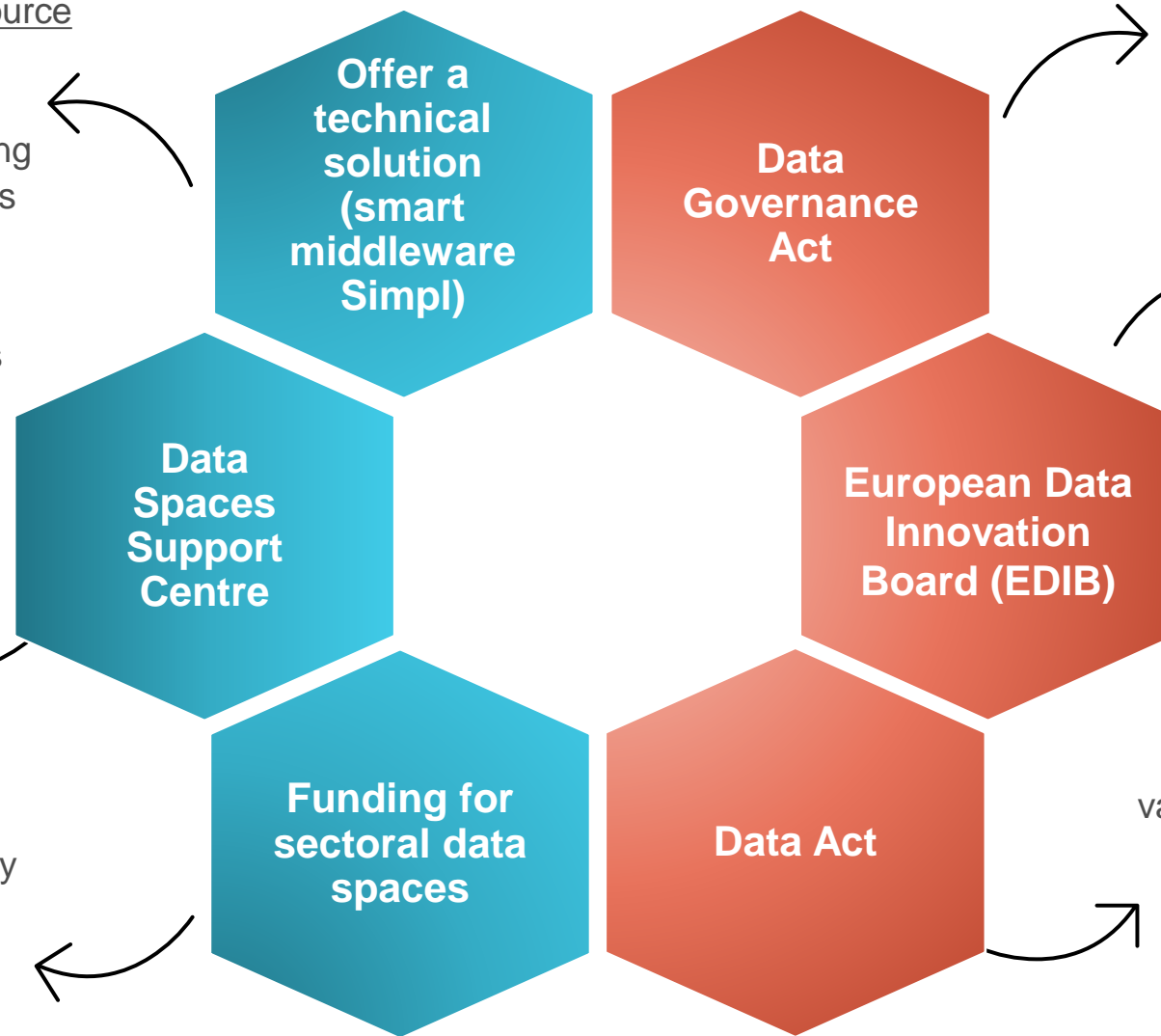
Procuring an open-source smart cloud-to-edge middleware platform, providing basic building blocks for data spaces
MVP now available

EU project to

- coordinate data space initiatives
- Identify common requirements
- Support the work of the EDIB
- Support data space initiatives and knowledge exchange

Blueprint 1.5 published

EU financial contribution (notably DIGITAL) to deploy common European data spaces in strategic sectors/domains



Funding

Legislation

Increase trust in data sharing (e.g. neutral data intermediaries)
Entered in application on 24/09/23

Support the Commission in:

- Issuing guidelines for common European data spaces
- Identifying the standards and interoperability requirements for cross-sector data sharing

5th meeting on 11/12/2024

Ensure fairness in the allocation of data value among the actors of the data economy
Will apply from Sept. 2025
Standardisation request in preparation on 'European Trusted Data Framework'



Thank you

Contacts:

kristof.almasy@ec.europa.eu

dimitrios.gkatzoflias@ec.europa.eu

© European Union 2020

Unless otherwise noted the reuse of this presentation is authorised under the [CC BY 4.0](https://creativecommons.org/licenses/by/4.0/) license. For any use or reproduction of elements that are not owned by the EU, permission may need to be sought directly from the respective right holders.

Data Spaces Symposium

Panel discussion | Overall strategy for common European data spaces and how to promote convergence and interoperability across data spaces

Dimitrios Gkatzoflias, Kristof Almasy, Peio Oiz,
Christopher Newman & Mariano Blaya-Andreu

Integrating Data Ecosystems

Realizing multimodal mobility and sustainable tourism – with data spaces as enablers

Data Spaces Symposium 2025

Victor de Vries, Gaia-X

DSBA



INTERNATIONAL DATA SPACES ASSOCIATION

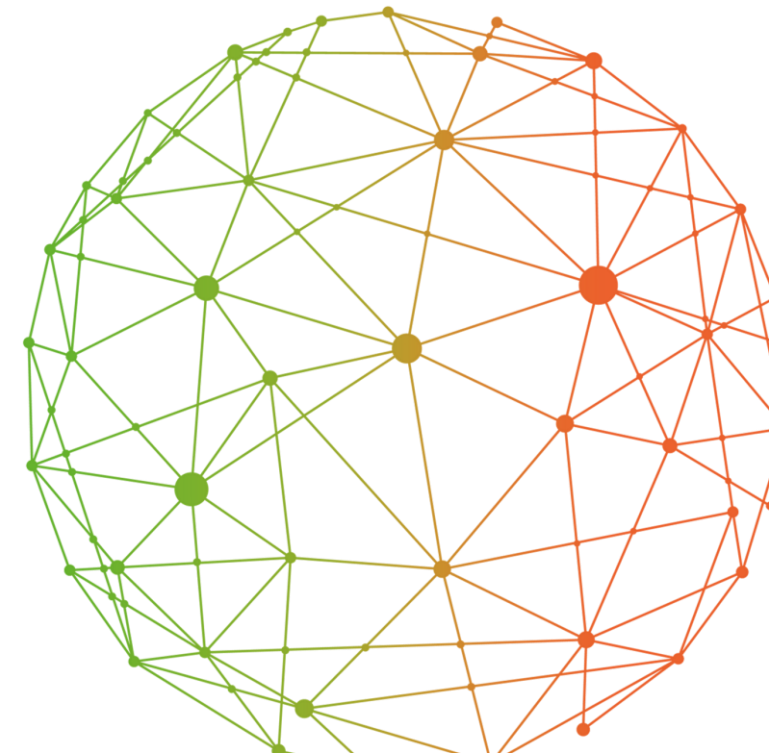


DATA SPACES SUPPORT CENTRE



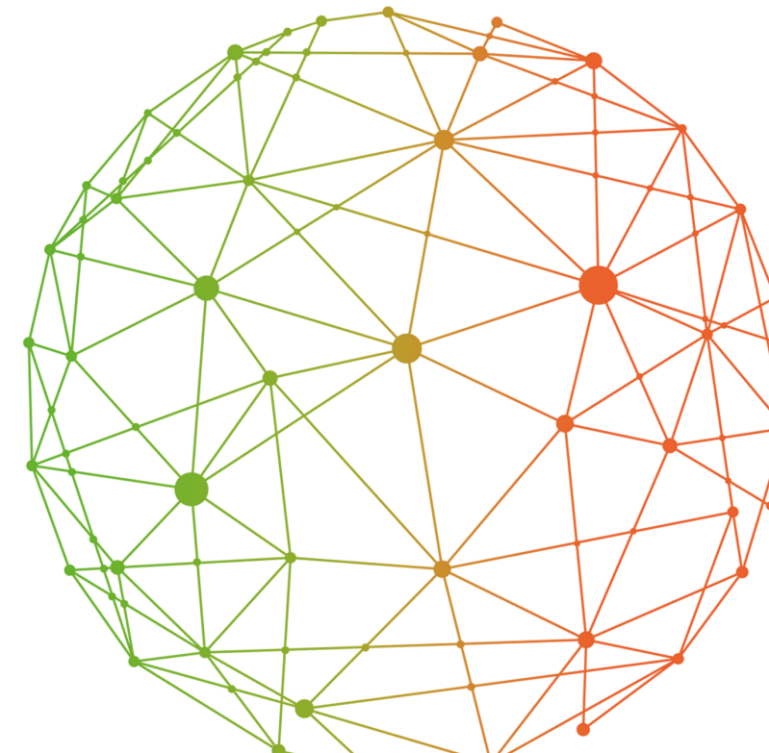
Funded by the European Union

The Data Spaces Support Centre receives funding from the European Union Digital Europe Programme under grant agreement n° 101083412

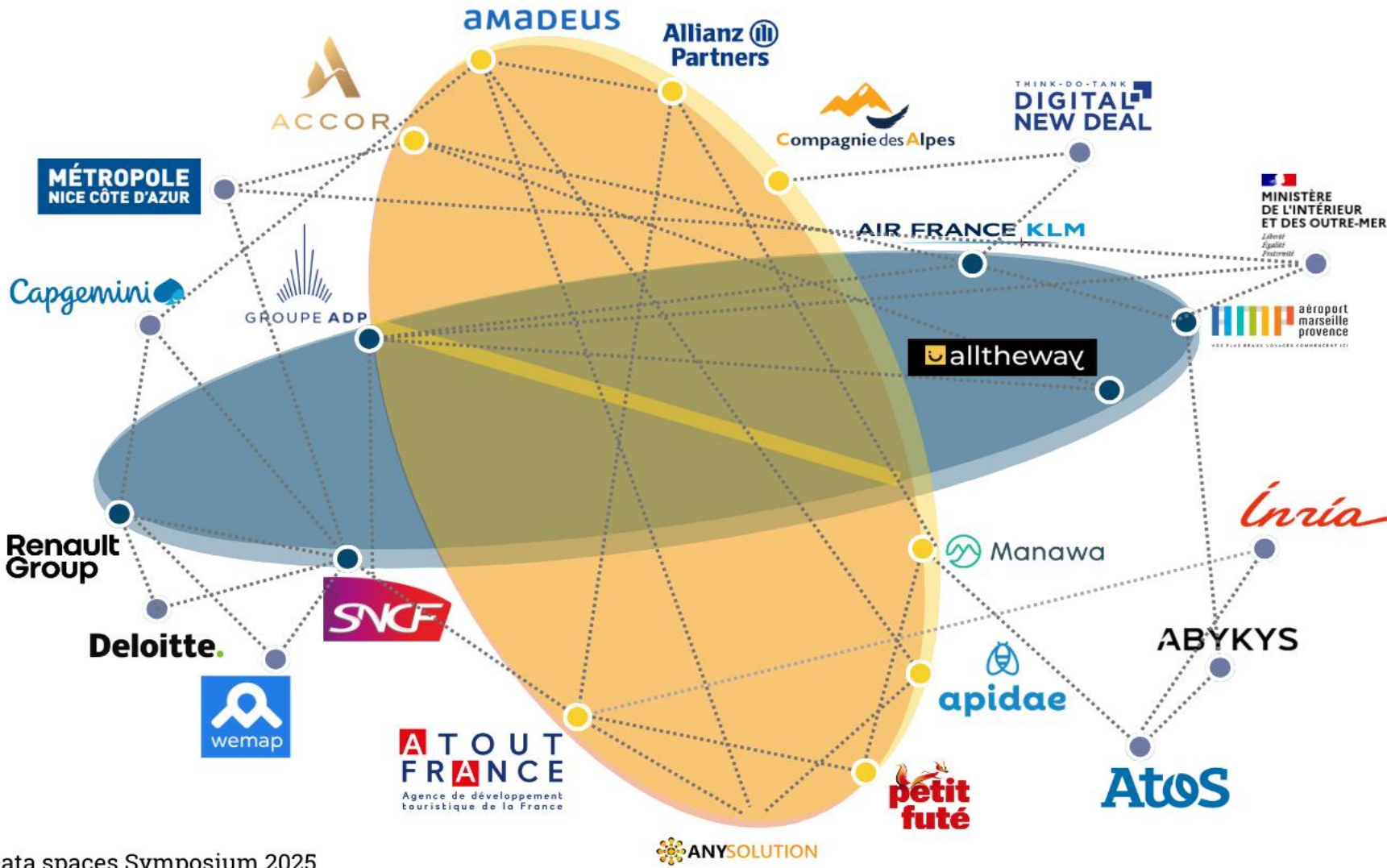


Panelists

- **Jonathan Huffstutler**, Marketing Director at Eona-X
- **Ryunosuke Ichikawa**, GIS Application Specialist at NTT DATA Japan Corporation (Japan Mobility Data Space)
- **Johan Scholliers**, Principal Research Scientist at VTT (Tampere, deployEMDS implementation site)
- **Oriol Izquierdo**, IT Manager at T-Systems Iberia (Segittur Data Space)



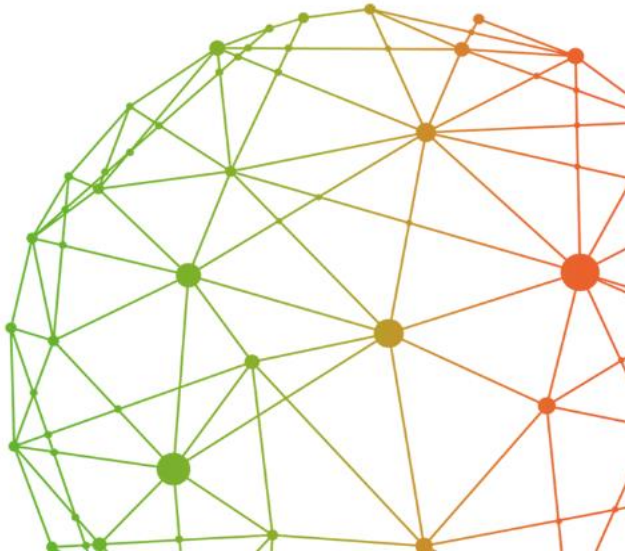
Integrating data ecosystems :



- 24 participants (and counting)
 - 9 SMEs
 - 11 groups & large companies
 - 4 research & institutional actors

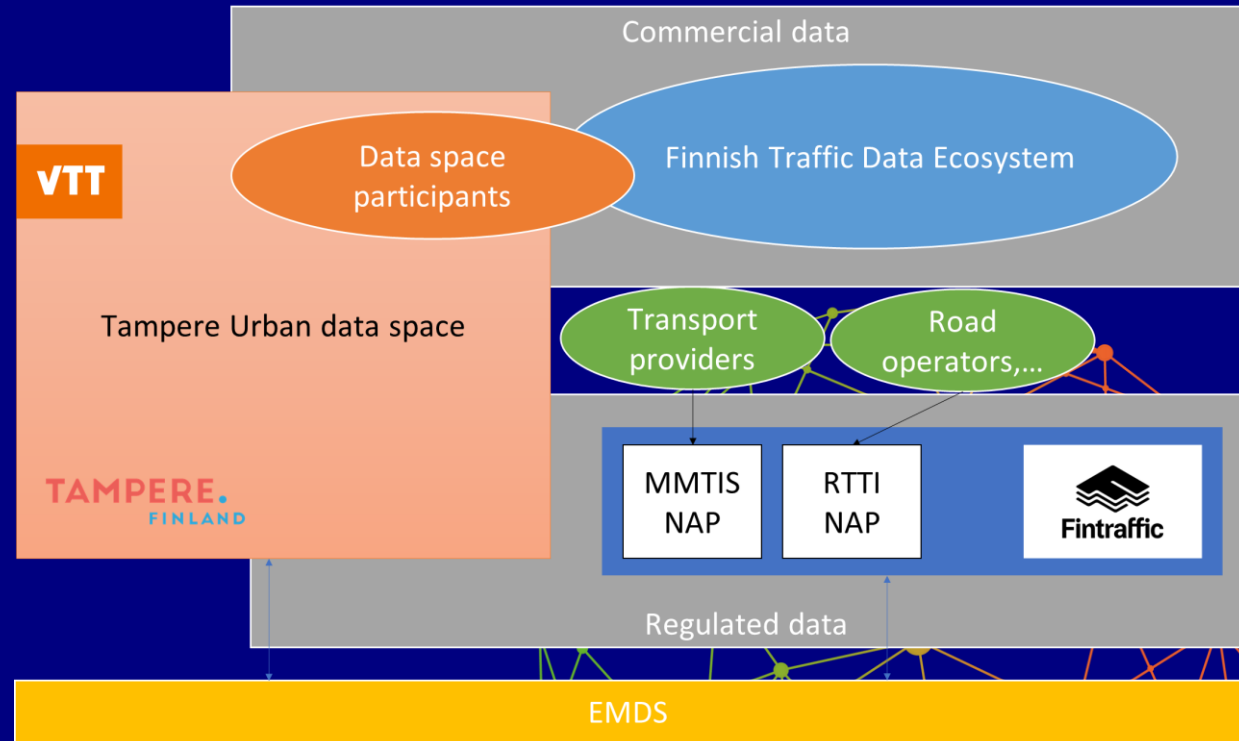
• 2 Common European Data Spaces

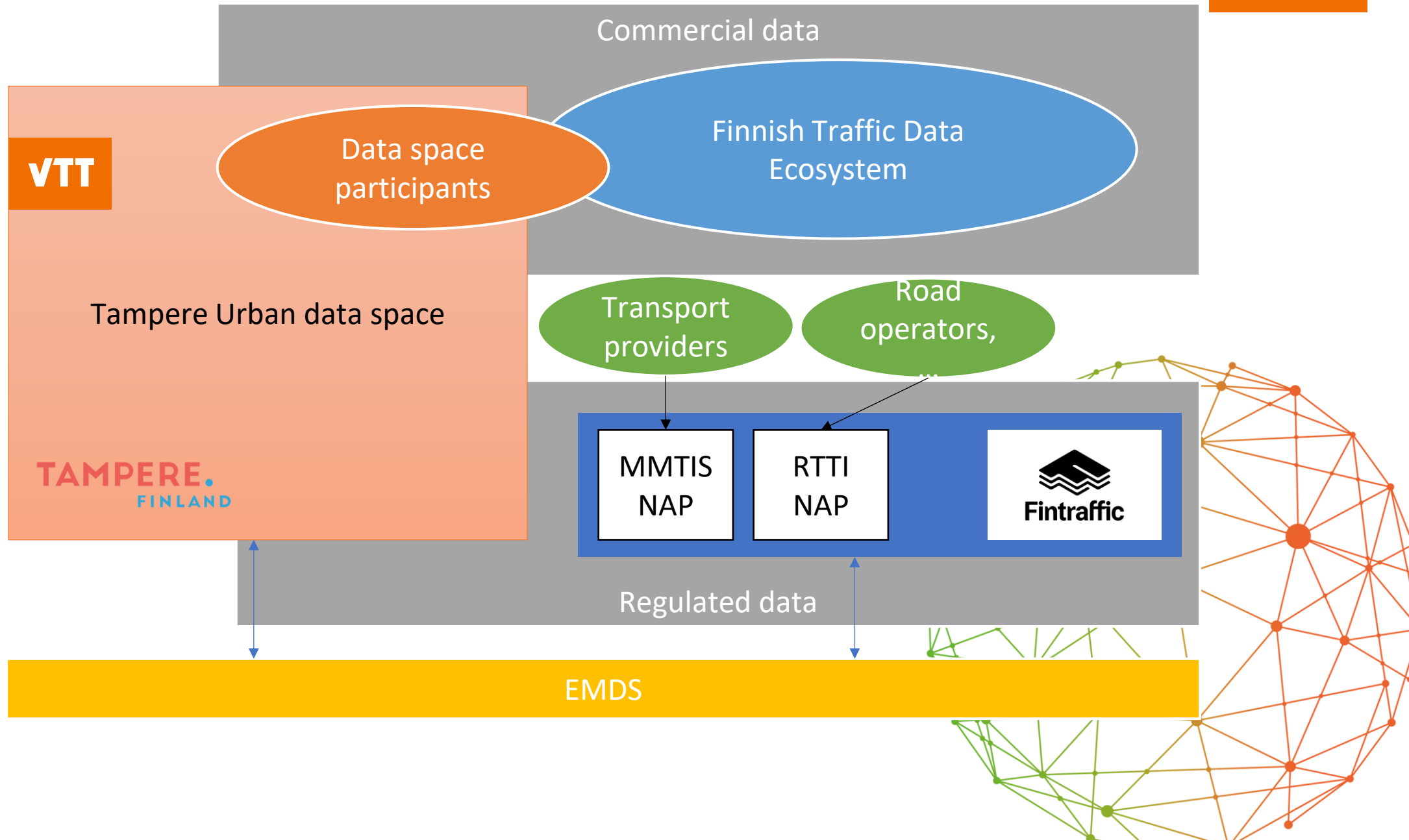
- Mobility, Transport & Logistics
- Tourism



Tampere – deployEMDS implementation site

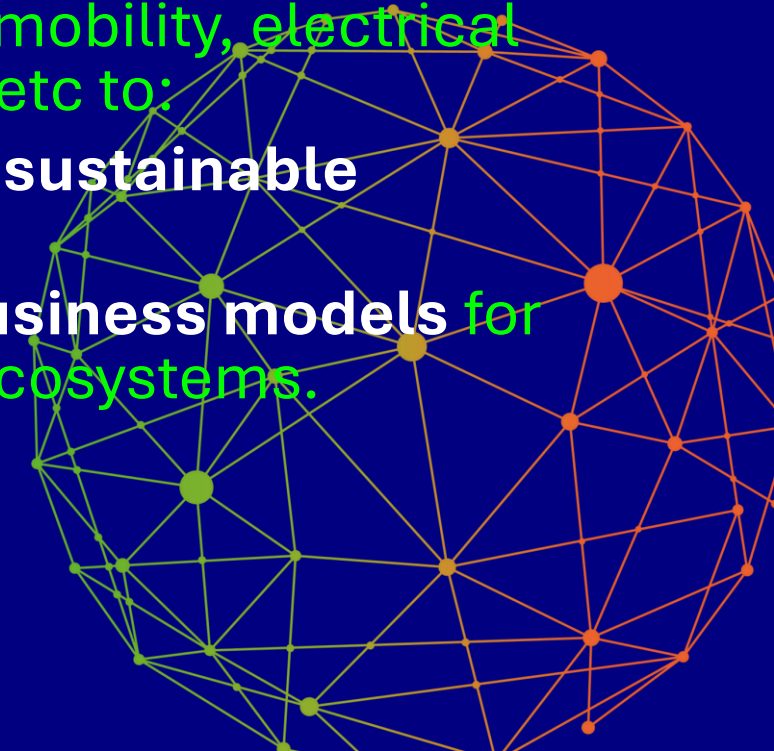
- deployEMDS objective: enable data sharing and reuse, contributing to the realisation of a common EMDS
- Tampere objective: to use data space tech to assist in the delivery of data to the NAP, and assess impact of actions.
- Data space is being set up, MVP end of 2025





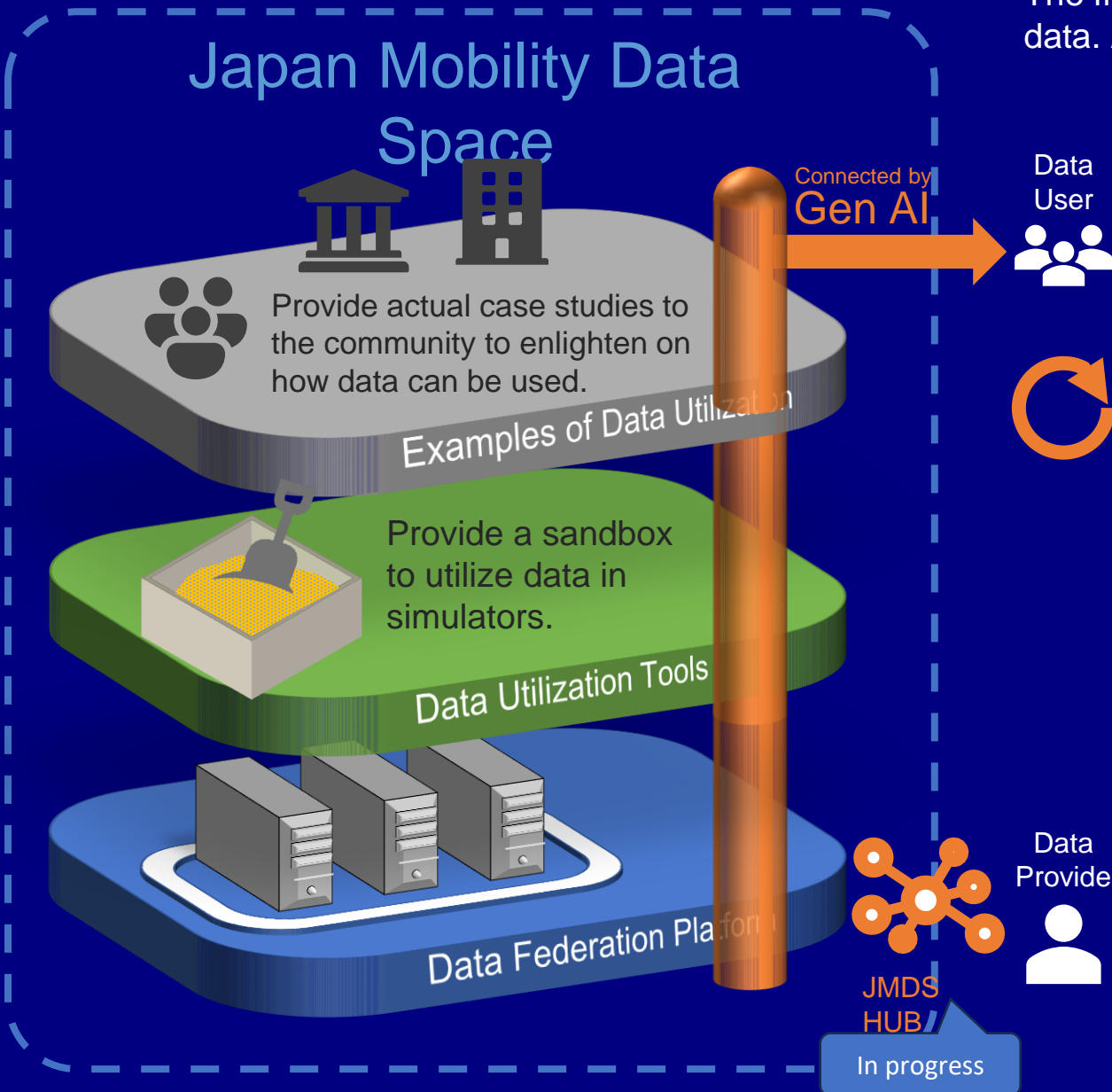
SEGITTUR PID Dataspace

- SEGITTUR is a public company responsible for **driving the innovation** of the Ministry of Industry, Trade, and Tourism in Spain.
 - SEGITTUR's project, the PID or SPD in English, contains the **first national public dataspace in Spain**.
 - The goal of the project is to enhance business innovation of the **smart destinations network and its business ecosystem**.
 - The project is scoped to be fully production **end of this year**.
- SEGITTUR's tourism dataspace acknowledges the **core values of the dataspace**; therefore, one of the main goal is to, not only focus on the “as is tourism data”, rather to integrate the “**better tourism data**” such as mobility, electrical consumption, etc to:
 - Enable a more **sustainable tourism**
 - **Create New business models for the business ecosystems**.



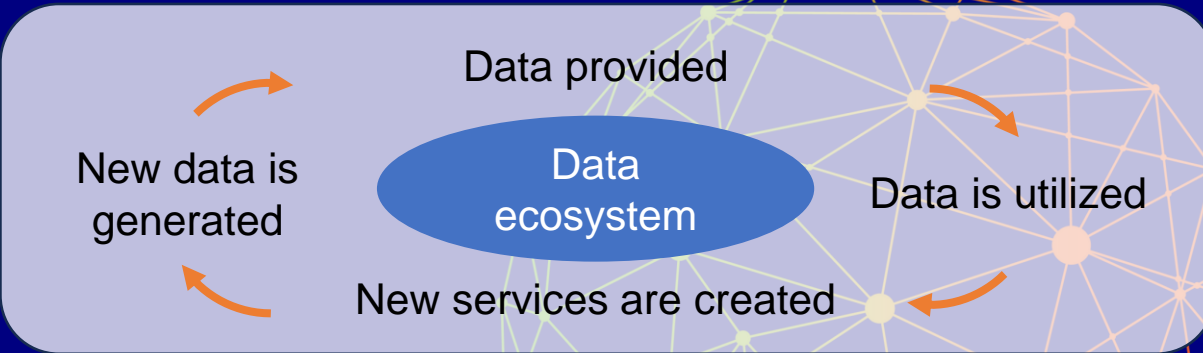
Project Introduction

This is the second year of a five-year project called SIP. The testbed is already open to the public and Gen AI functions have already been released. The first step in the Data Federation Platform is to collect catalogs of the data. A data utilization demonstration is planned for April or later.



Data users can use GenAI to search for data from various types of data. This makes it easier to reach the desired data.

Data providers provide data on the platform to enable local areas to grow, which in turn benefits the data providers. Create an ecosystem with the following cycles.



To encourage data holders to participate in the platform, we are developing an interface called the JMDS HUB. This will allow data to be provided using existing APIs without the need for other development.

Data Spaces Symposium

Panel discussion | Integrating data ecosystems

Victor de Vries, Johan Scholliers, Ryunosuke Ichikawa,
Jonathan Huffstutler & Oriol Izquierdo

Data Spaces Symposium

Share data. Unlock value. Boost impact.

11th March : 15:30 : Track 1 : Mobility and Tourism

Panel: Creating value for participants in mobility and tourism data spaces



María Tomás

ForwardKeys,
Panel moderator



Juan Ortells

AnySolution for TANGO
project



Daniel Sáez Domingo

ITI for Datamite project



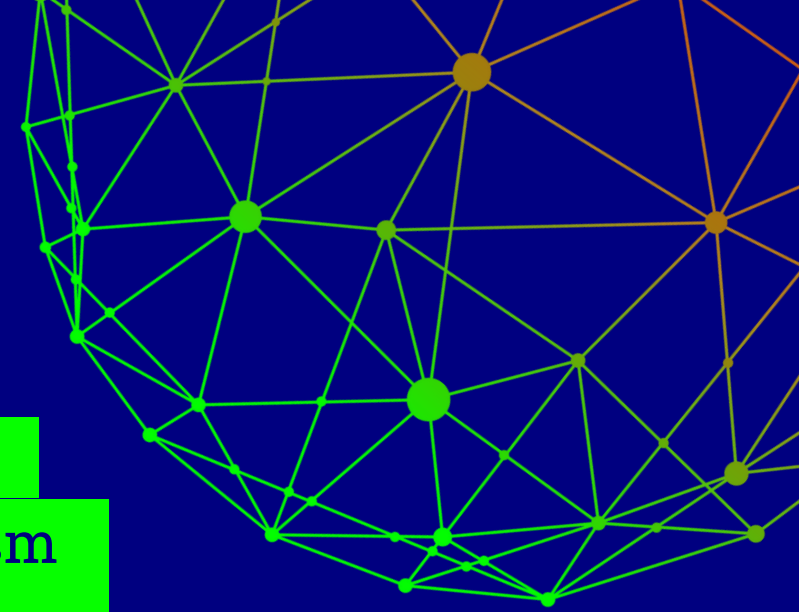
Jim Ahtes

I2Cat for deployEMDS
project



Norbert Baumert

Mobility Data Space



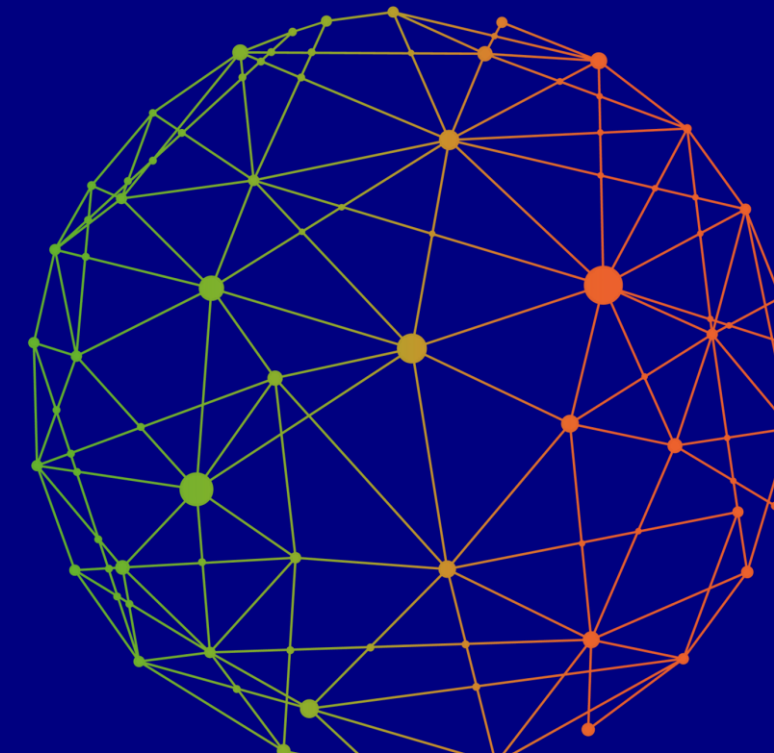
Panel: Creating value for participants in mobility and tourism data spaces

Data Spaces Symposium
2025

Track 1: Mobility and Tourism



María Tomás
Moderator
&
Coordinator of INDATUR
project



DSBA

BDV
BIG DATA VALUE
ASSOCIATION

FIWARE
FOUNDATION

gaia-x

INTERNATIONAL DATA
SPACES ASSOCIATION

DATA SPACES
SUPPORT CENTRE

Funded by
the European Union

The Data Spaces Support Centre receives funding from the European Union Digital Europe Programme under grant agreement n° 101083412

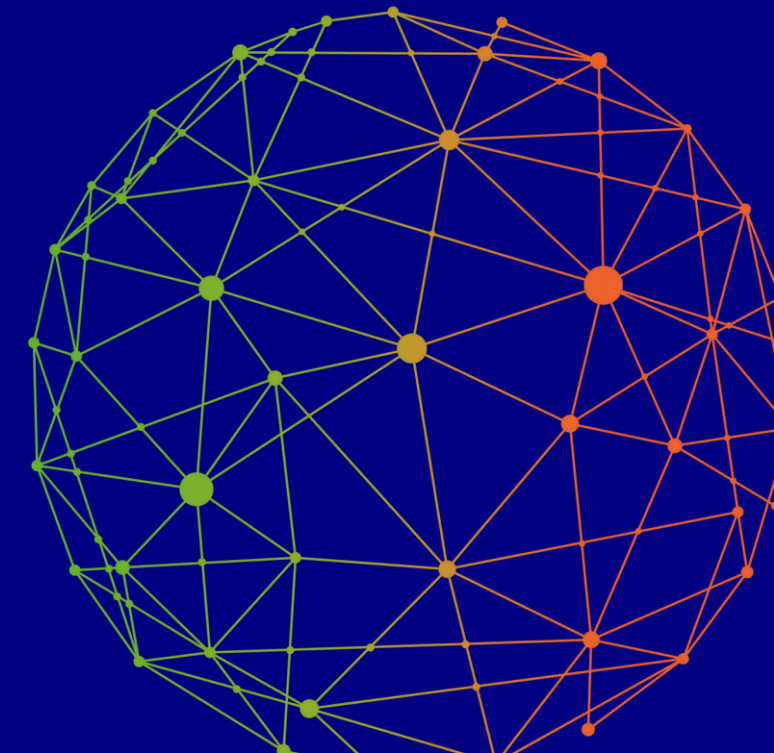
Dataspace for SME and startups

MDS: The way to a valuable dataspace

Data Spaces Symposium
2025

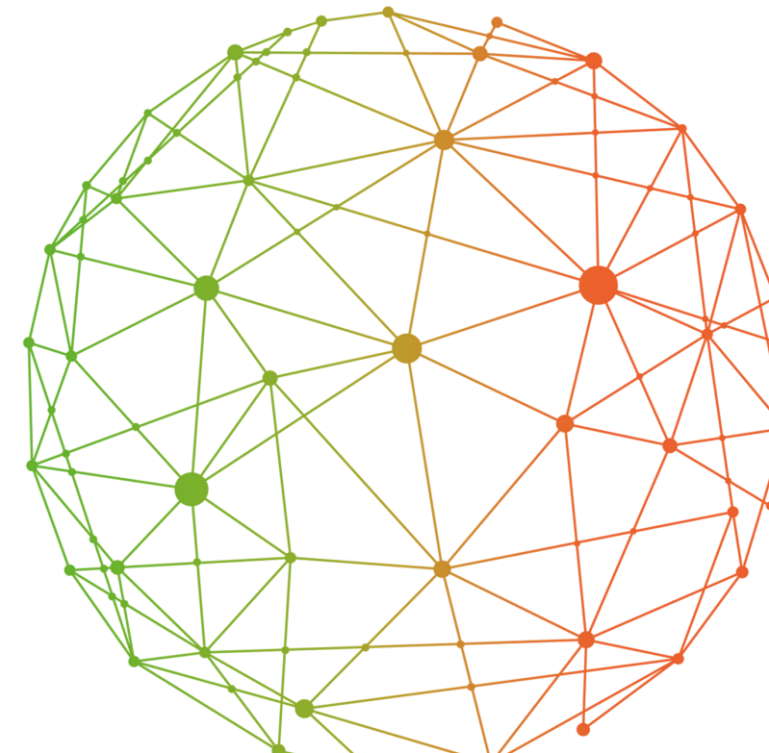
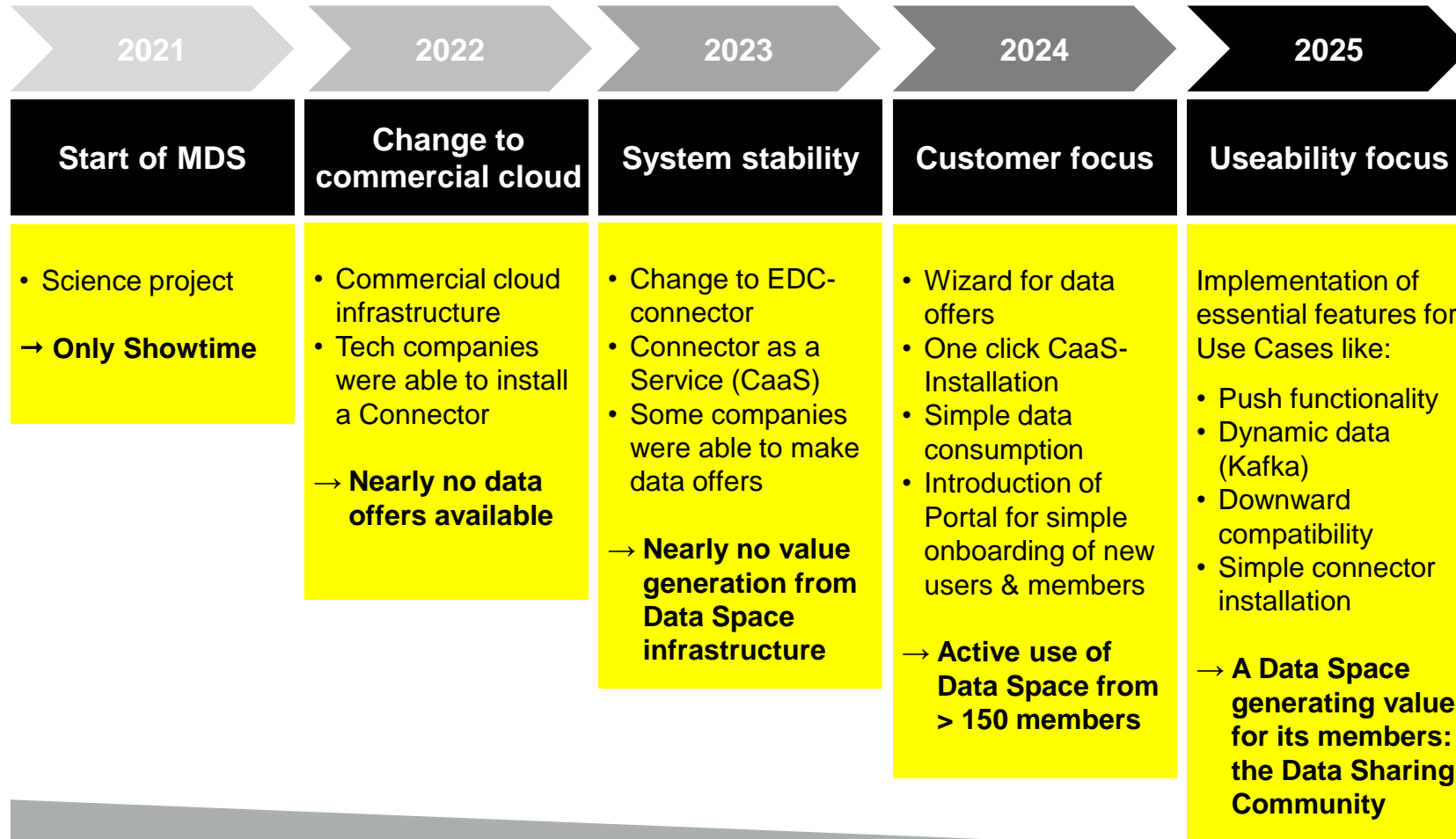


Norbert Baumert
Mobility Data Space



The Data Spaces Support Centre receives funding from the European Union Digital Europe Programme under grant agreement n° 101083412

MDS: The way to a valuable dataspace



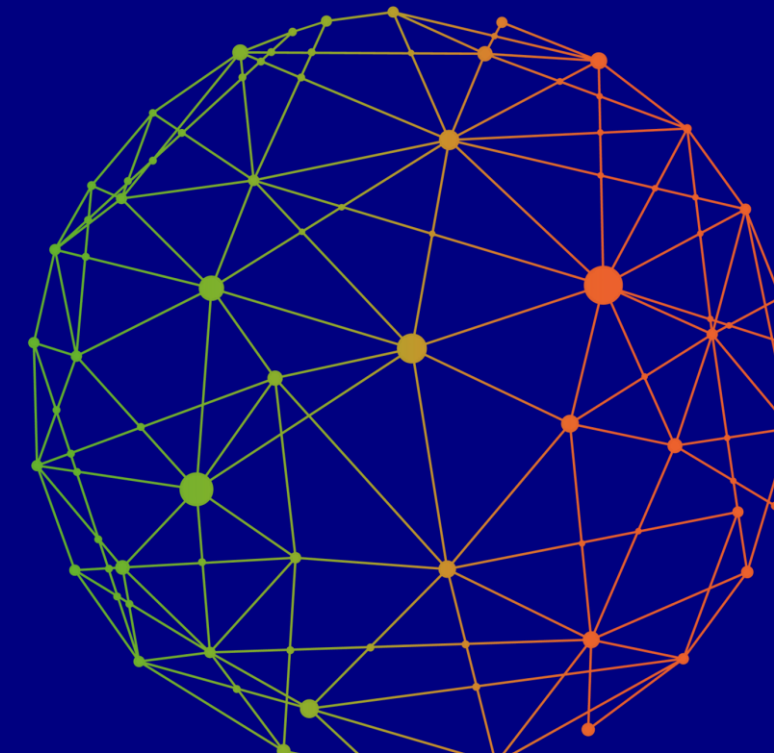
Creating value for participants in mobility and tourism Data Spaces

TANGO: Fostering convergence and interoperability across Data Spaces

Data Spaces Symposium
2025



Juan Ortells
TANGO project,
Anysolution



DSBA



INTERNATIONAL DATA
SPACES ASSOCIATION



DATA SPACES
SUPPORT CENTRE



Funded by
the European Union

The Data Spaces Support Centre receives funding from the European Union Digital Europe Programme under grant agreement n° 101083412



DIGITAL TECHNOLOGIES ACTING
AS A GATEKEEPER TO INFORMATION
AND DATA FLOWS

Providing a trustworthy data management and sharing solution to ensure data sovereignty, governance and provenance to citizens, businesses, and public administration around Europe

- ✓ Data governance framework
 - ✓ Distributed privacy-preserving data management and storage
 - ✓ Distributed trust management framework
 - ✓ Artificial Intelligence based framework for green and trustworthy operations
- Smart Hospitality
 - Autonomous vehicles
 - Smart manufacturing
 - Banking
 - Public administration
 - Retail

Smart Hospitality Pilot



This pilot enables seamless interactions between customers, hosts, tour operators and other local actors. The customer can benefit from personalised experiences and effortless processes provided by the host. Hosts can ensure privacy and security while benefitting from less resources wasted.

- Partners involved



- Strengthening passenger privacy
- TANGO will offer personalized services and recommendations
- Check-in and check-out
- Room preference control
- Secure payment without exposing card data via tokenization
- Improved security of the resort's IoT network

Creating value for participants in mobility and tourism Data Spaces

Realizing multimodal mobility and sustainable tourism – with Data Spaces as enablers

Data Spaces Symposium
2025



Daniel Saez
Datamite project, ITI



ITI INVESTIGATE
TO INNOVATE

DSBA

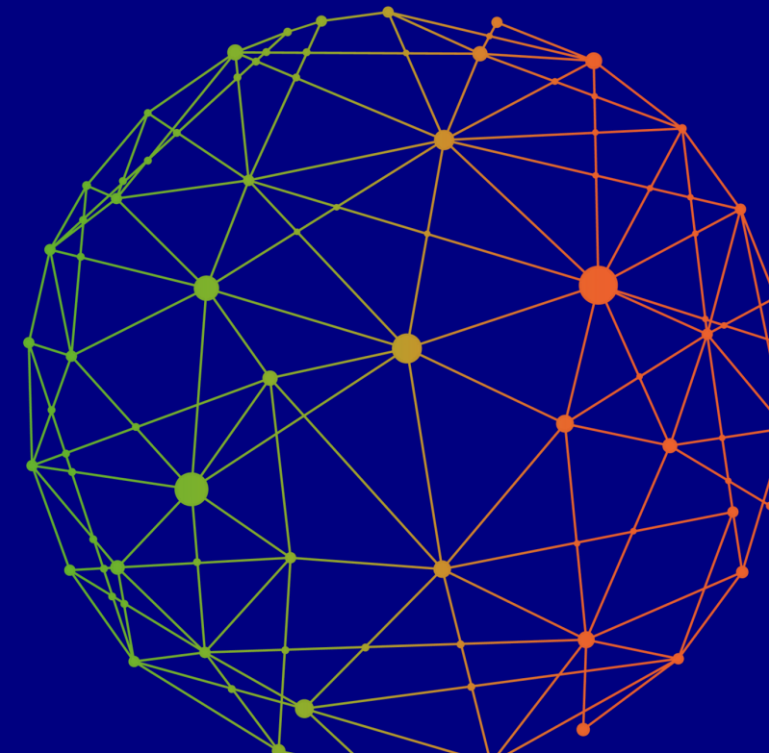


**DATA SPACES
SUPPORT CENTRE**



Funded by
the European Union

The Data Spaces Support Centre receives funding from the European Union Digital Europe Programme under grant agreement n° 101083412





ACCELERATING THE ADOPTION OF INNOVATIVE DATA & AI TECHNOLOGIES

The largest Technology Centre focused on Data & AI

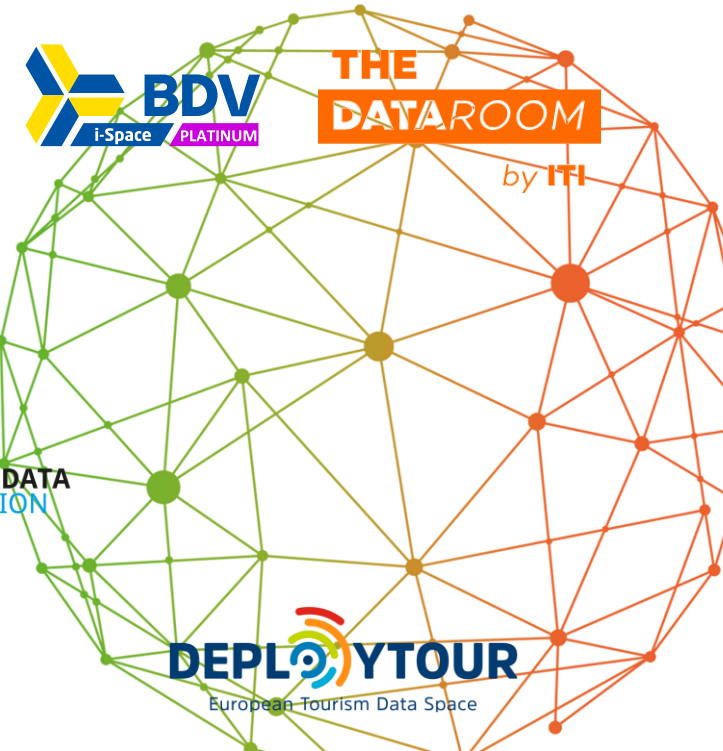
Key player in eDIHs, AI Networks & Data Spaces

Own technology stack for data Exploitation and Sharing

Experimentation and Demonstration Labs

250+ companies formally linked

500+ companies in our ecosystem



SMES In Europe > 99%

Lack of **computing power**

Poor **Quality of Data**

Diversity of platforms and tools

Lack of knowledge in **data ethics**

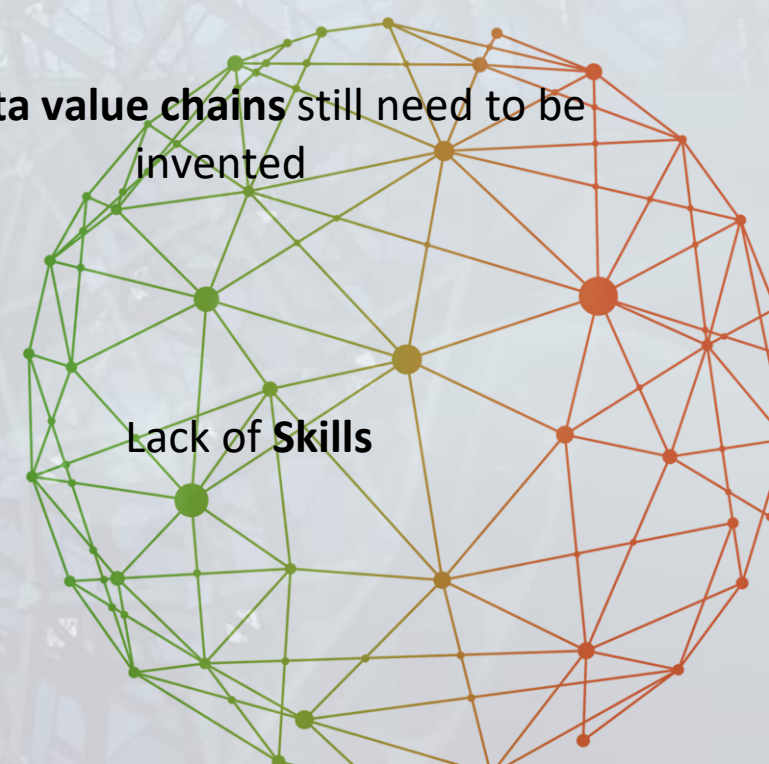
Lack of consolidated **business models**

Data owners (really big data holders) need **incentives to share**

Fair data value chains still need to be invented

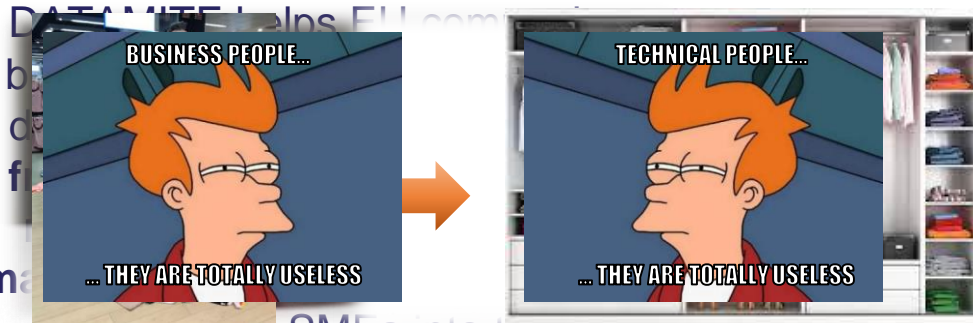
New AI and Data **regulations** bring challenges for innovators

Lack of **Skills**





datamite



and low-tech SMEs into the data economy.

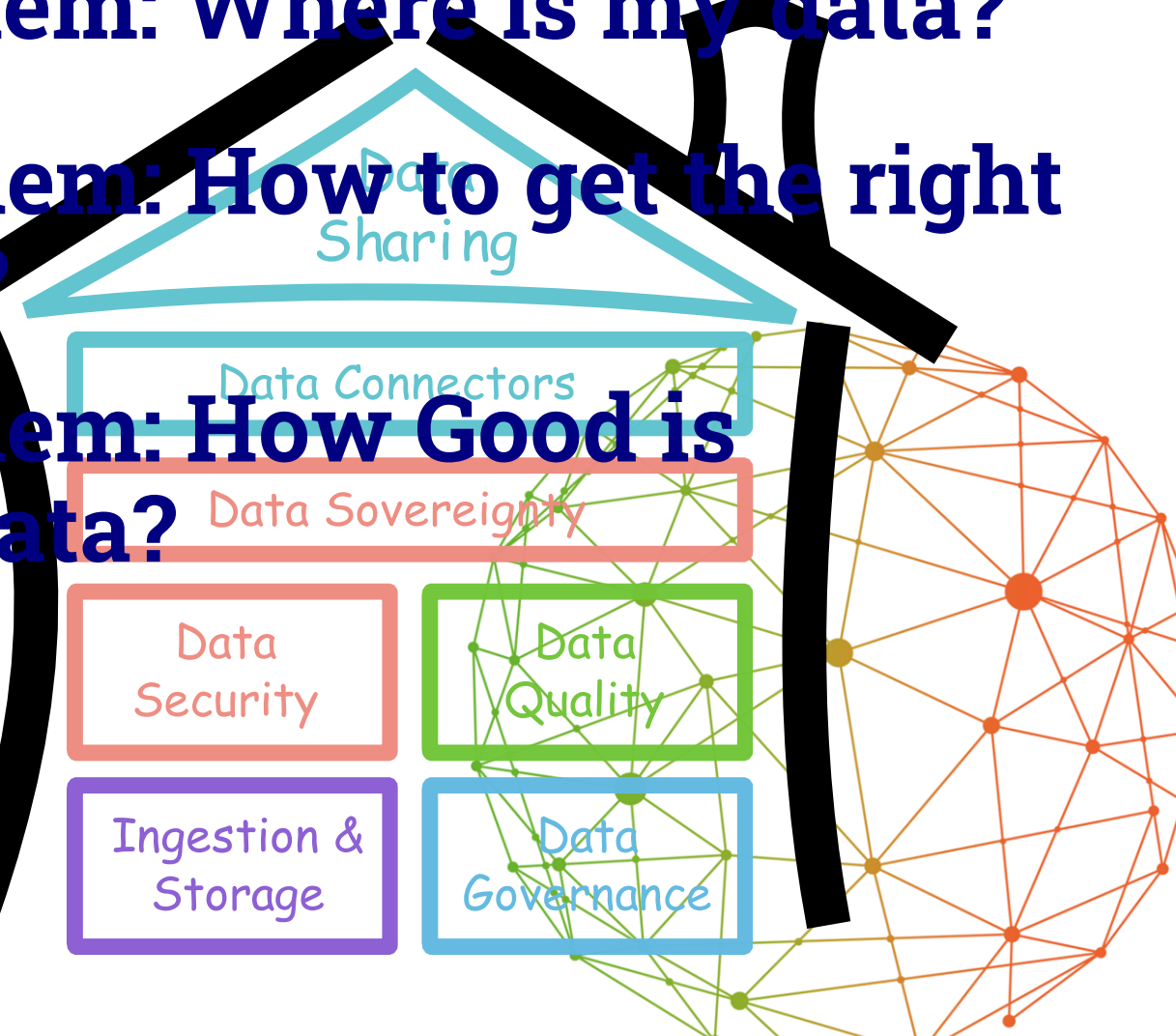


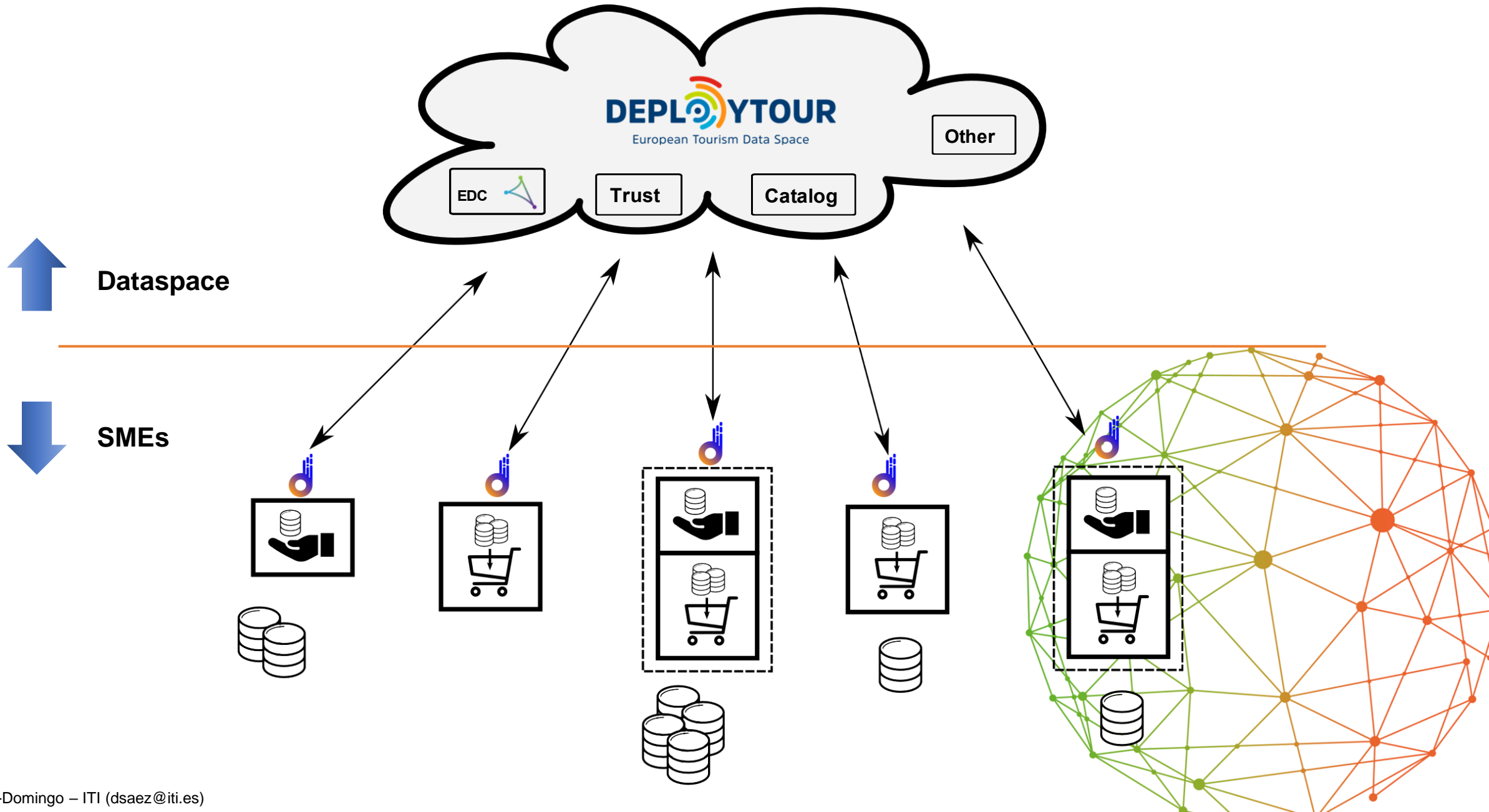
Funded by the European Union

Problem: Where is my data?

Problem: How to get the right data?

Problem: How Good is my data?





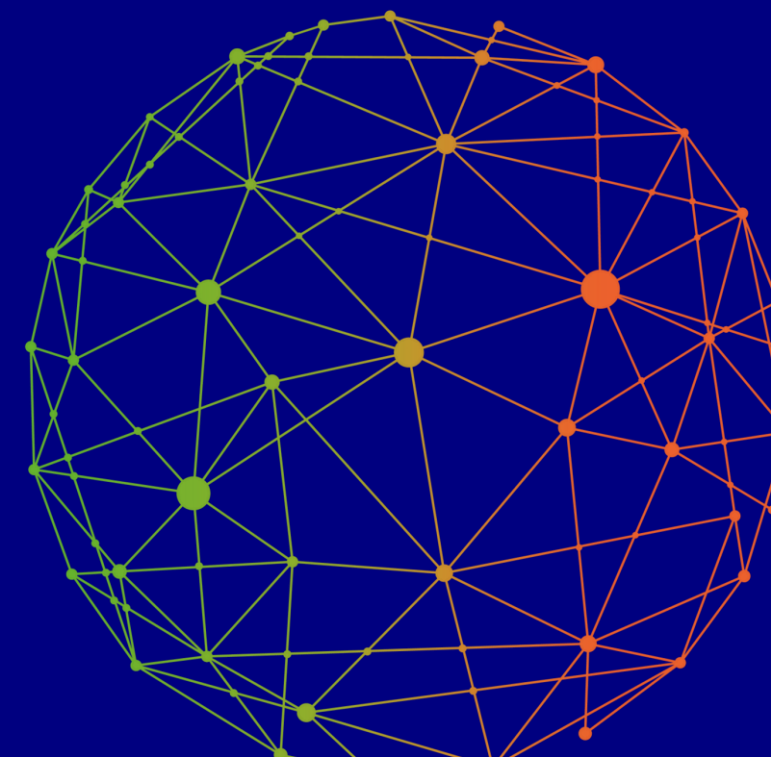
Creating value for participants in mobility and tourism Data Spaces

Accelerating value generation in mobility data space use cases

Data Spaces Symposium
2025



Jim Athes
DeployEMDS project,
I2CAT

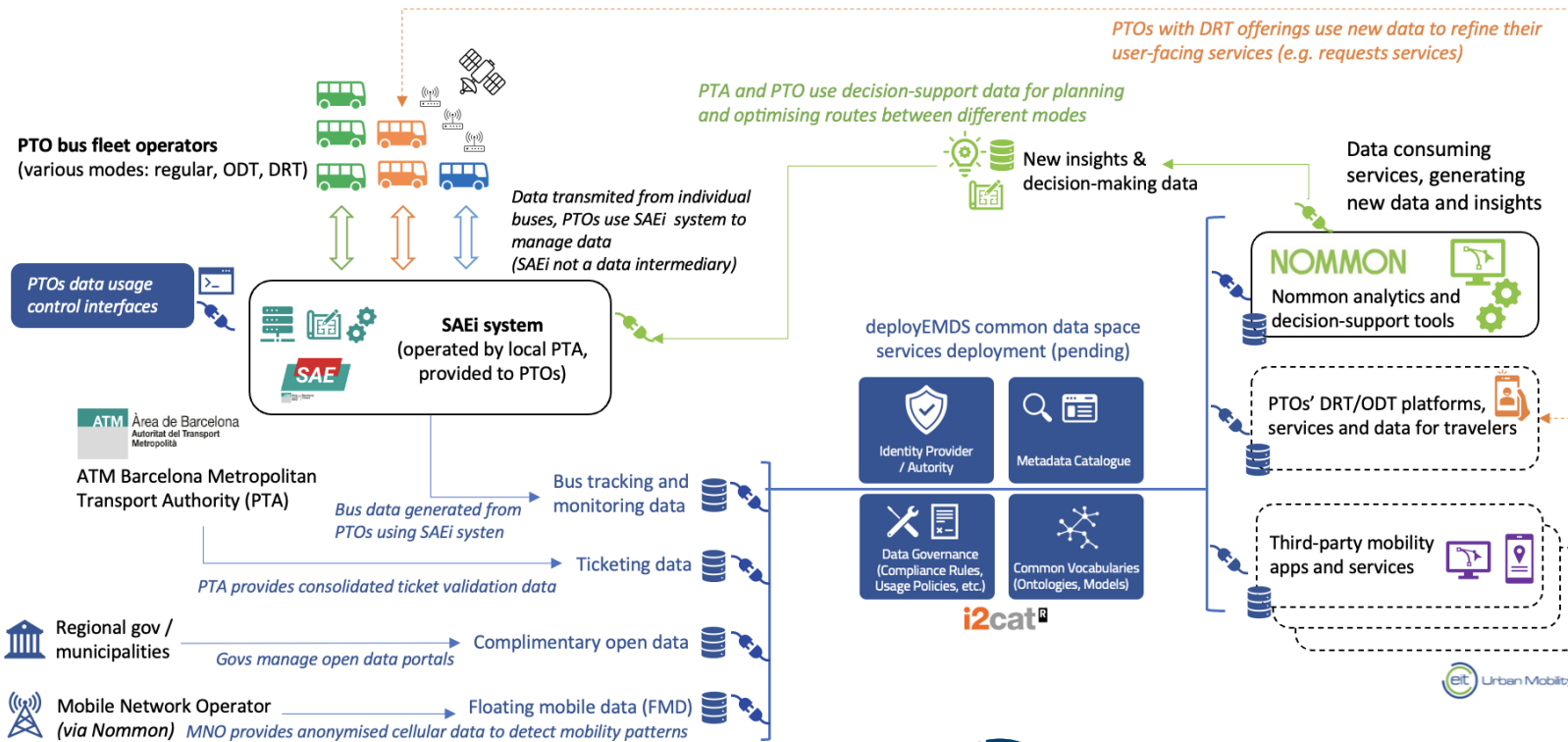


Funded by
the European Union

The Data Spaces Support Centre receives funding from the European Union Digital Europe Programme under grant agreement n° 101083412

Multi-operator data space ecosystem for bus fleets and on-demand transport

Pilot collaboration between ATM Barcelona, Nommon, i2CAT and onboarded PTO in deployEMDS



Value generation *towards* evolving mobility services (Public Transport Operators, Public Transit Authorities)

- Improve PTO planning of mobility services between regular, on-demand and demand-response transit (DRT) through AI-powered predictive analytics
- Optimise services and improve traveller experience (vehicles, capacity, frequency, etc.)



Value generation *from* digital service providers (SMEs) to enable those mobility benefits

- Development of competitive AI-driven predictive analytics solutions, decision-support tools and other value-added apps and services (replicable for other clients)



Creating the conditions for value generation

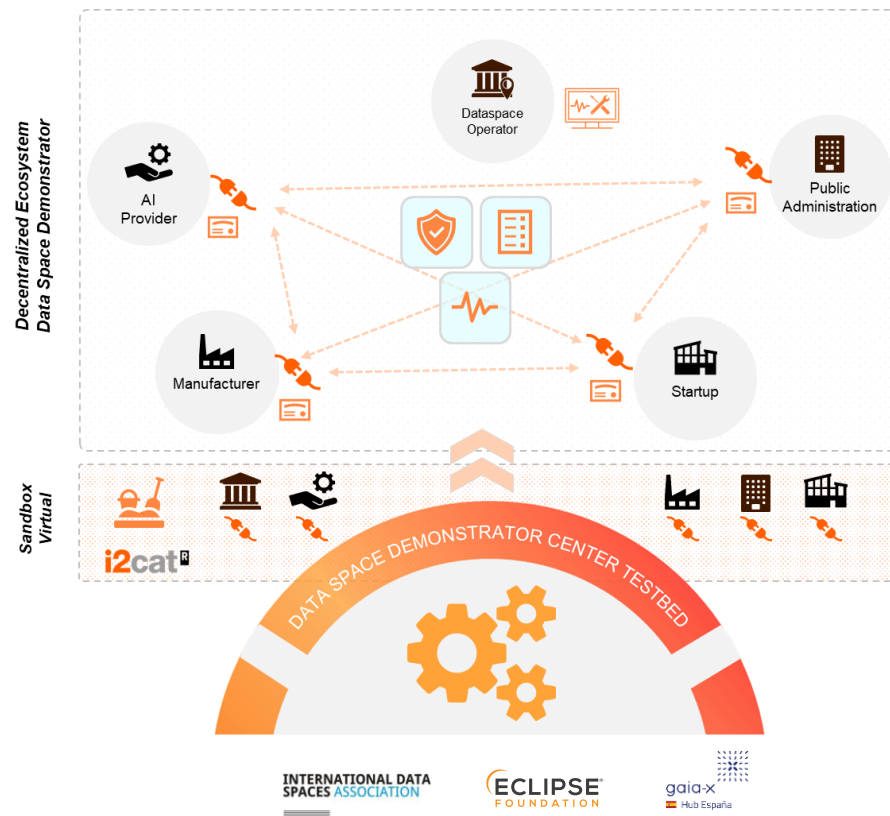
- Facilitate PTO access to a dynamic market of digital service providers while maintaining control over the use of data (create trust for accelerated B2G and B2B data and value exchange)
- Standardise interfaces, exchange protocols and promote semantic interoperability between bus transport modes (facilitate data discovery and consumption for value generation)
- Provide a scalable public-private governance model between various profiles in the value chain (establish a competitive and fair data/service market for small and large digital service providers alike)

Data Space Demonstration Centre of Catalonia

Providing the building blocks for a data space use case pilot deployment so participants can focus on value generation

Local initiative, European standards: a regional incubator for data space development, experimentation and piloting

- Deploys testbed infrastructure for building a data space MVP pilot, with sandbox, on-premise connectors and governance services.
- Reduces time and cost in iterative data space development.
- Ensures local data infrastructure investment aligns with European standards, interoperability frameworks and regulations.
- Provides the tools and environment to teach and onboard companies and administrations to become data space participants and operators
- Co-finances use case development and demonstrations.



Taller: Casos d'ús d'Espais de Dades en el Sector Energètic

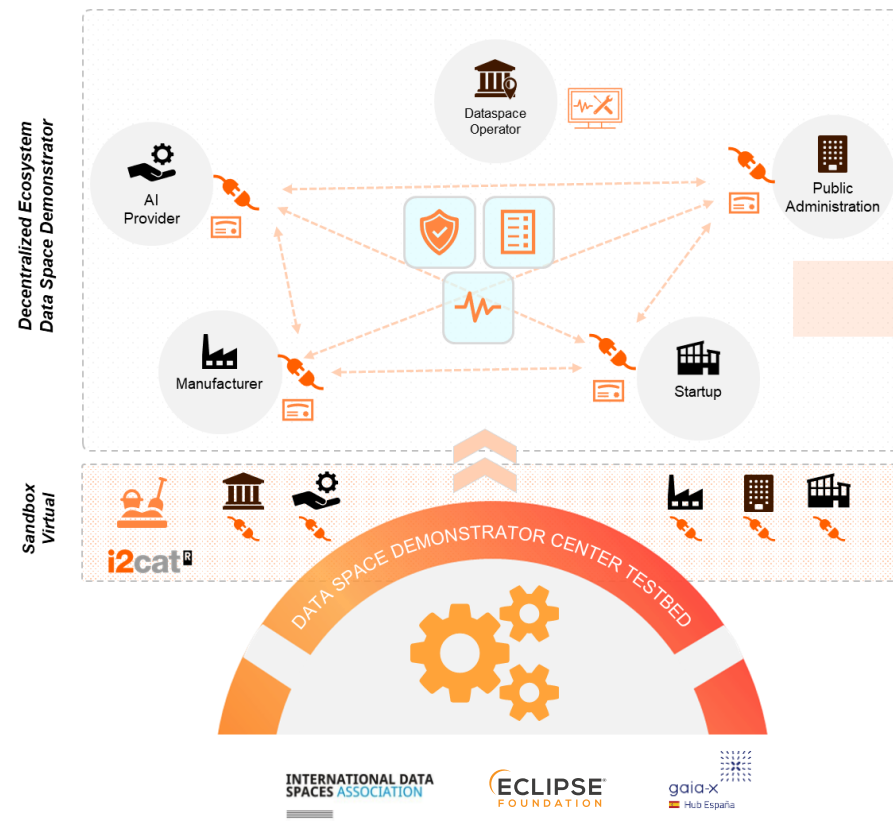


Data Space Demonstration Centre of Catalonia

Providing the building blocks for a data space use case pilot deployment so participants can focus on value generation

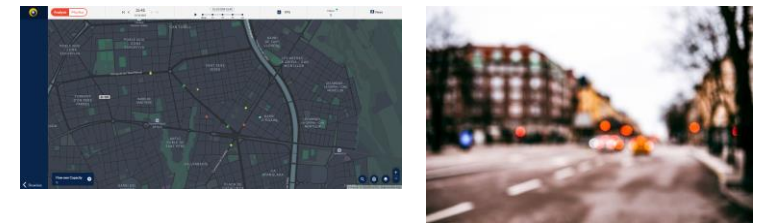
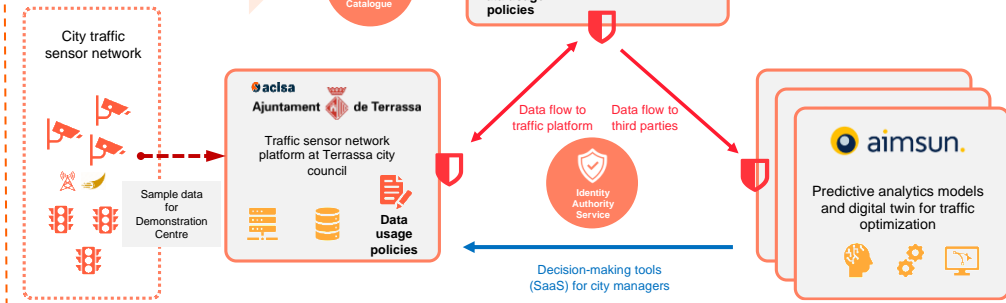
Local initiative, European standards: a regional incubator for data space development, experimentation and piloting

- Deploys testbed infrastructure for building a data space MVP pilot, with sandbox, on-premise connectors and governance services.
- Reduces time and cost in iterative data space development.
- Ensures local data infrastructure investment aligns with European standards, interoperability frameworks and regulations.
- Provides the tools and environment to teach and onboard companies and administrations to become data space participants and operators
- Co-finances use case development and demonstrations.



Example use case demonstration:

Traffic management in Terrassa



From use case conceptualization to implementation, deployment and piloting

Thank you!

jim.ahtes@i2cat.net

Gran Capità, 2-4
Nexus I Building, 2nd Floor
08034 Barcelona
Tel. (+34) 935 532 510

[X/Twitter](#) | [Linkedin](#) | [YouTube](#)



Data Spaces Symposium

Share data. Unlock value. Boost impact.

Panel: Creating value for participants in mobility and tourism data spaces

Open discussion



María Tomás

Manager of R&D projects at
ForwardKeys

maria.tomas@forwardkeys.com



Juan Ortells

Innovation director at
Anysolution

juan@anysolution.eu



Daniel Sáez Domingo

Technology transfer director at
ITI

dsaez@iti.es



Jim Ahtes

Head of Data Space
Innovation, I2Cat

jim.ahtes@i2cat.net



Norbert Baumert

Head of Technology at
Mobility Data Space

norbert.baumert@mobility-dataspace.eu

Data Spaces Symposium

17:20 | Track 3

**Design your
own data space**

Interactive session
[facilitated by the DSSC]

17:20 | Track 2

**Economic opportunities through the
shaping of data governance at
bilateral and multilateral level**

Keynote session