



Towards a common European mobility data space (EMDS)

European Commission

Data Spaces Symposium, March 12-14, 2024

At the crossroads of two EU strategies

Data Strategy



Establish a single market for data.
Enable data sharing and establish fair and clear rules on data use and access.

Sustainable and Smart Mobility Strategy (SSMS)



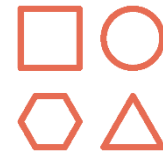
Ensure that the EU transport sector is fit for a clean, digital and modern economy.

→ A **common European mobility data space (EMDS)** facilitating access, pooling and sharing of data from existing and future transport and mobility data sources.

Challenges of mobility data sharing



Reluctance to share data:
security, competition
concerns, lack of trust



Heterogeneity and diversity
of stakeholders, transport
modes, data types, etc.



Fragmentation, lack of
access and interoperability

EMDS Communication (adopted Nov 29 , 2023)

- It outlines the Commission's proposed way forward for the creation of a common EMDS, including its **objectives, main components, supporting measures** and **milestones**.
- The Commission is seeking to promote the exchange of information on this topic, as well as collaboration more generally.
- It invites all relevant actors to take note of the measures set out in this communication.

Use cases and their added value for the mobility transition ahead

 Increasing the efficiency of the logistics sector at EU level

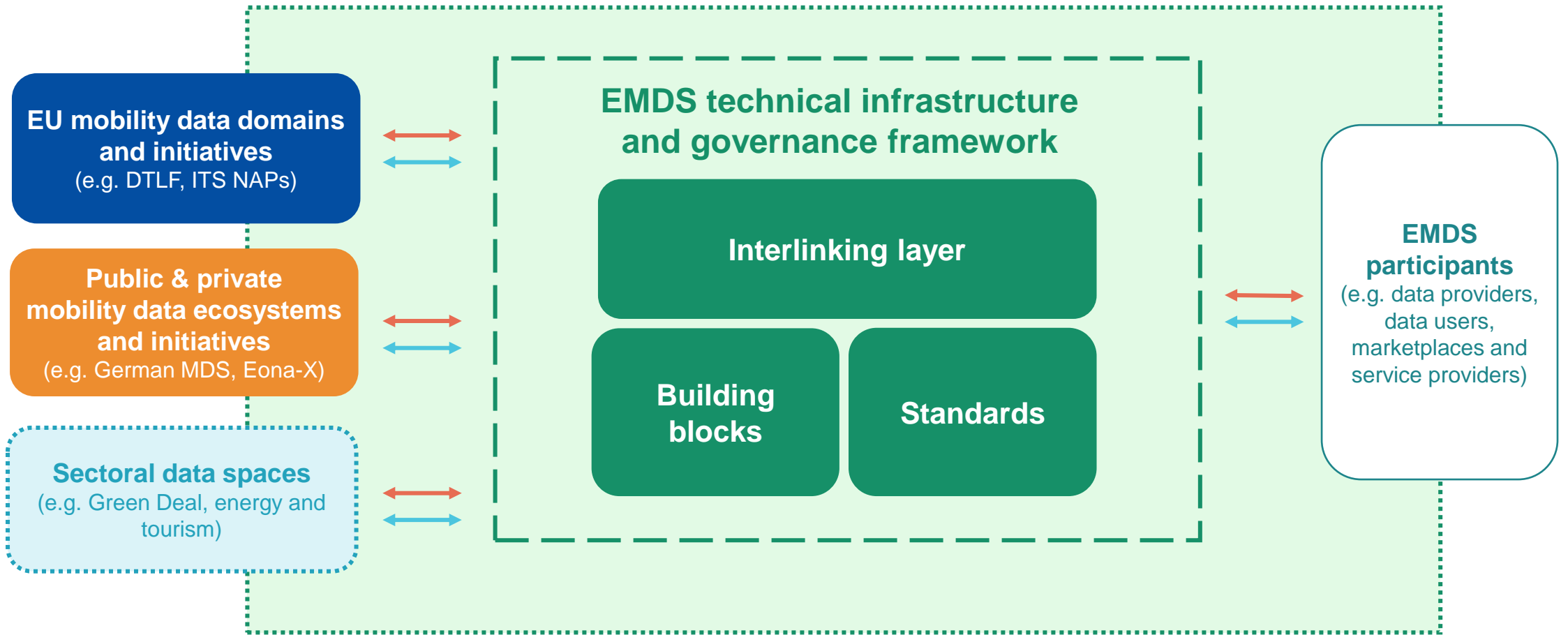
 Implementation of **urban vehicle access regulations (UVARs)**

 Boosting cross-border passenger & freight **multimodality**

 Facilitating access to **electromobility** data at EU level

EMDS framework

Envisioned concept



→ data access/sharing

→ metadata flows

Actions supporting the common European mobility data space (1/2)



Preparatory action Digital Europe Programme

12 months coordination & support action:

[PrepDSpace4mobility](#)

Oct 2022-Sept 2023 ✓

- Map existing mobility data ecosystems
- Recommend first common building blocks

Deployment action Digital Europe Programme

36 months deployment action: [deployEMDS](#)

Kick-off Nov 2023 ✓

- Deployment of mobility data sharing use cases related to **traffic and urban mobility** indicators

Technical assistance Connecting Europe Facility

12 months study

Kick-off Jan 2024 ✓

Followed by a deployment action in 2025 (TBC)

- Focus on the **governance, interlinking layer** and further definition of building blocks and **interoperability**

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

Actions supporting the common European mobility data space (2/2)



New

Multi-country projects

Digital Europe Programme

First call will be:

- [published](#) Feb 13, 2024 ✓
- open Feb 29-May 29, 2024
- Support the establishment of a **lasting collaboration structure**
- Support the deployment of **cross-border use cases** in different areas

New

Proof-of-Concept

Digital Europe Programme

6 months PoC

Kick-off Jan 2024 ✓

- Focus on how **personal data** are managed in the EMDS framework, through a **multimodal use-case**
- Looking for **local authorities and transport operators** to test the PoC

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

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
- **SMEs, start-ups and industry** are welcome to join the “Innovation and Scaling group” for collaboration and knowledge sharing
- **Public authorities** can get involved in workshops with NAPCORE or the Network of Cities managed by POLIS
- **do you want to get involved?** contact the project coordinator kirstein@acatech.de



Mobility and Logistics Data EDIC

European Digital Infrastructure Consortium (EDIC): new **mechanism to implement Multi-Country Projects (MCP)** created by the [Digital Decade Policy Programme 2030](#)

Ongoing preparation of a possible **Mobility and Logistics Data EDIC** to ensure long term sustainability of common data infrastructure and promote large scale adoption. Proposed scope:

- Allowing the **coordination** and **alignment** on common standards among its members.
- support the **implementation of cross-border use cases** under a coherent approach

Preparation of an application by the **Netherlands** (host), **Austria, Germany, Finland, France** and **Spain**, closely followed by the EC. Other Member States and organisations showed interest.

Application planned in May 2024.

Next steps

- Follow-up on the EMDS Communication
- EMDS technical assistance study preliminary deliverables
- deployEMDS preliminary deliverables
- Define terms of reference for the deployment action of the interlinking layer (Q3-Q4 2024)

Thank you

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Useful links

European data strategy

https://ec.europa.eu/info/strategy/priorities-2019-2024/europe-fit-digital-age/european-data-strategy_en

Sustainable and smart mobility strategy

https://transport.ec.europa.eu/transport-themes/mobility-strategy_en

DIGITAL Work Programme 2024

[Funding & tenders \(europa.eu\)](#)

Deployment call - Funding and tenders portal

[DIGITAL-2022-CLOUD-AI-03-DS-MOBILITY](#)

[PrepDSpace4Mobility \(mobilitydataspace-csa.eu\)](#)

Staff working document on data spaces

<https://digital-strategy.ec.europa.eu/en/library/staff-working-document-data-spaces>

Consultation – Communication on common European mobility data space

[Have your say - creating a common European mobility data space](#)

Back-up

PrepDSpace4mobility

- 12 months (Oct 2022 - Sept 2023)
- EUR 1 million (funded under the Digital Europe Programme)
- 17 partners
- 1 kick-off event, 2 public stakeholder forums, 4 expert workshops, 1 final event
- <https://mobilitydataspace-csa.eu>



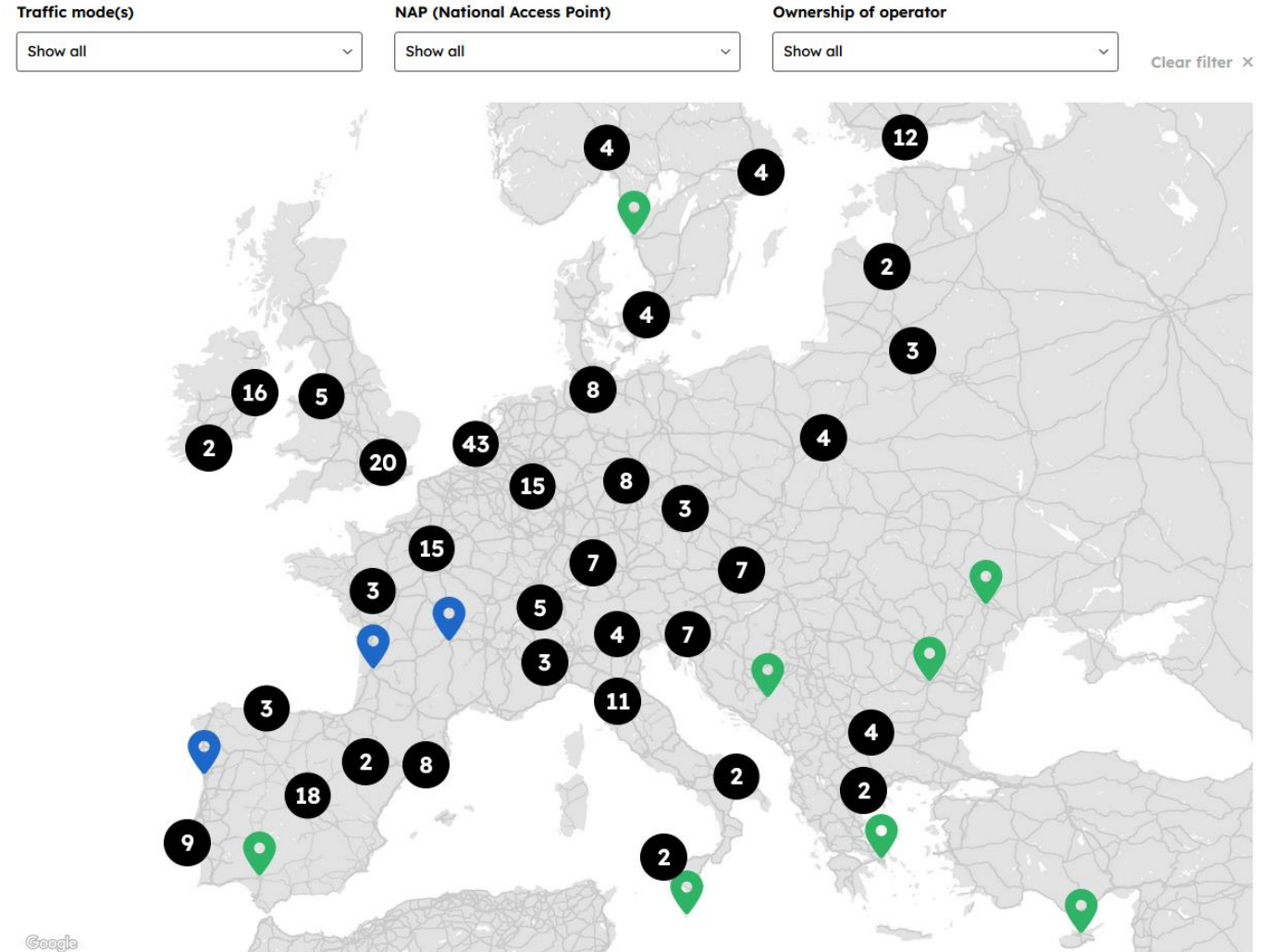
Associated Partners



PrepDSpace4mobility - Mapping of ecosystems

- Looked at **426** initiatives, ecosystems, platforms and projects.
- **272** data ecosystems matched the relevance criteria and are included in the inventory of data ecosystems.

<https://mobilitydataspace-csa.eu/inventory/>



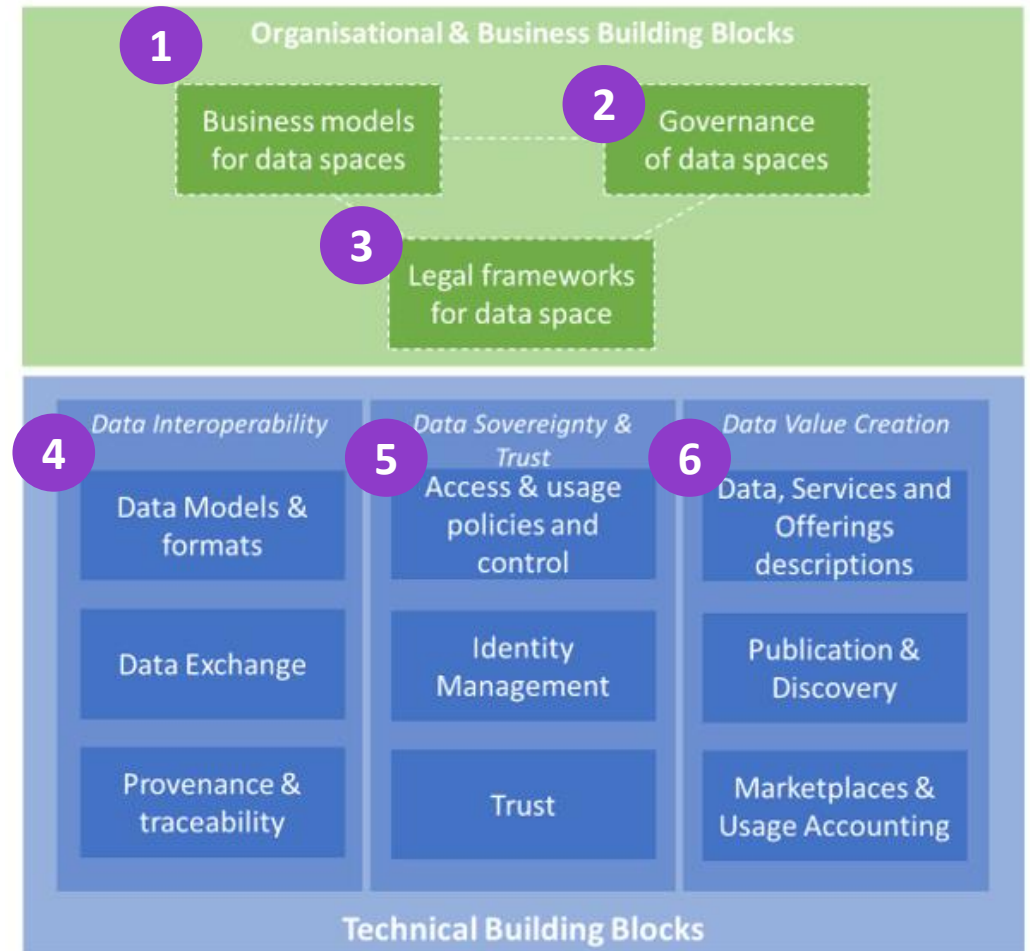
PrepDSpace4mobility - Building blocks

- 1 Business and Funding Models
- 2 Governance
- 3 Legal

Technical Grounding & Ref. Architectures

- 4 Data Interoperability
- 5 Data Sovereignty and Trust
- 6 Data Value Creation

Based on the DSSC building block taxonomy:



PrepDSpace4mobility - Main deliverables



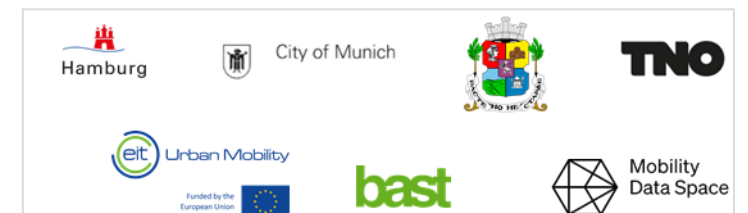
<https://mobilitydataspace-csa.eu/resource-centre/>

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**
- 1 kick-off event (Barcelona), 1 inception meeting, 9 webinars on planned use-cases
- 2 workshops on governance of data spaces and of urban mobility data (as of Mar 7, 2023)



Associated Partners



EMDS technical assistance study

- **12 months** (Jan 2024 – Dec 2024)
- **EUR 500,000** (funded under the CEF)
- Consortium with **3 partners**
- Kick-off (Jan 8), Workshop 1 (Feb 23)
- Workshop 2 (planned Apr 16)



EMDS technical assistance study

- Task 1 – analysis of the **technical and governance dimension** of the EMDS framework
- Task 2 – analysis with specifications and recommendations for the creation of an **interlinking layer**
- Task 3 – specifications and recommendations for potential participants to **interlink and exchange data** through the EMDS framework