Towards a common European mobility data space (EMDS)

DG MOVE

European Commission

May 2023

At the crossroads of two EU strategies

Data Strategy

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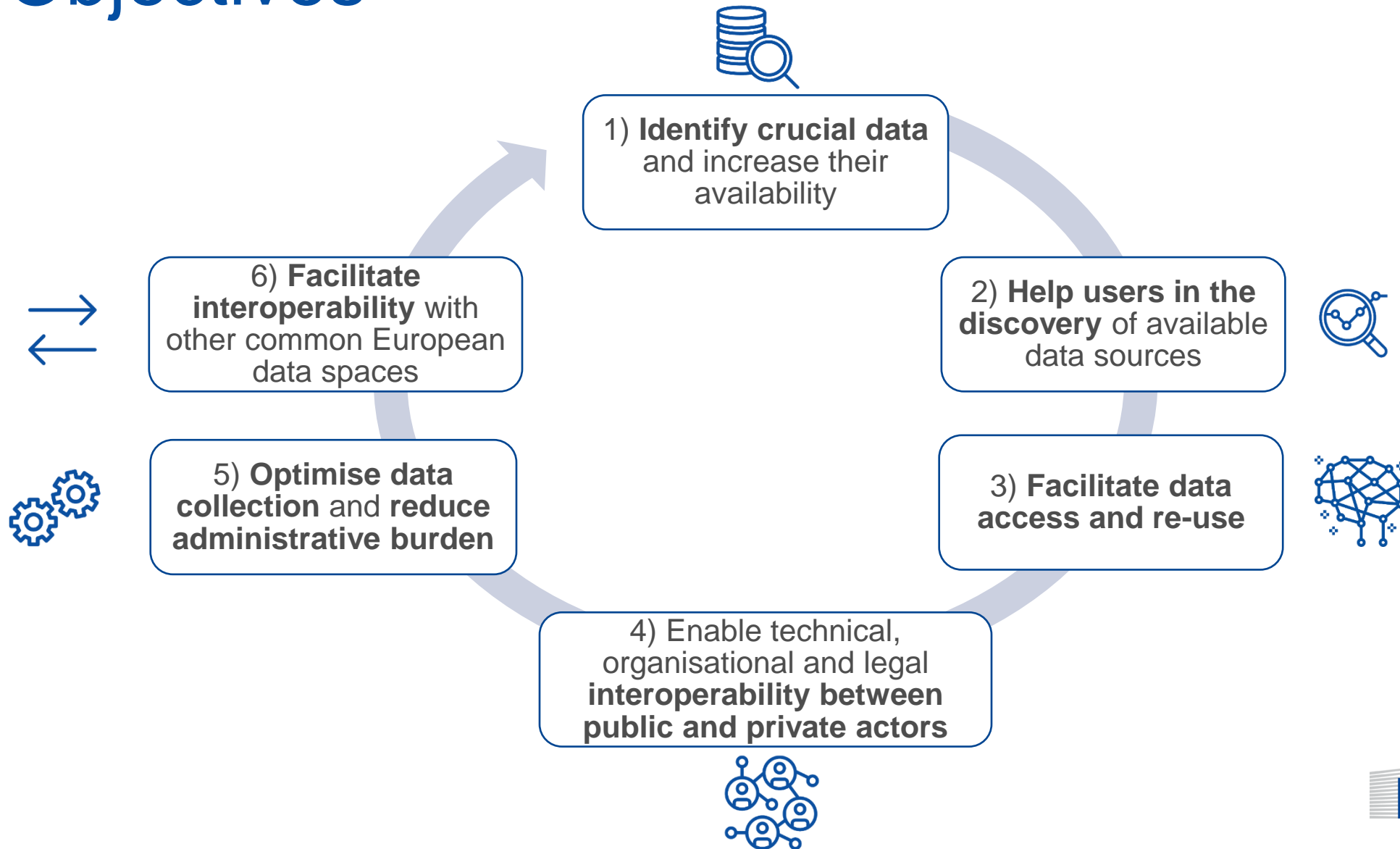and clear rules on data use and access.

**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**
facilitating access, pooling and sharing of data from existing
and future transport and mobility data sources.

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Objectives

1) **Identify crucial data** and increase their availability

2) **Help users in the discovery** of available data sources

3) **Facilitate data access and re-use**

4) Enable technical, organisational and legal **interoperability between public and private actors**

5) **Optimise data collection** and **reduce administrative burden**

6) **Facilitate interoperability** with other common European data spaces

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Use cases and their added value for the mobility transition ahead

Increasing the efficiency of the logistics sector at EU level by combining data from different (modal) sources

Enabling local authorities to identify well-targeted measures within their **sustainable urban mobility plans (SUMPs)**, by combining data from different data spaces (e.g. mobility, energy, tourism), and use the data to monitor the progress towards the set objectives.

Implementation of **urban vehicle access regulations (UVARs)**, by informing travellers when they are about to enter an UVAR (e.g. through navigation apps) or get an ad-hoc exemption (e.g. for transfer of people with reduced mobility)

Cross-border passenger & freight **multimodality** can be boosted through the integration of information (e.g. real-time schedules, disruptions) and access to tickets in all transport modes
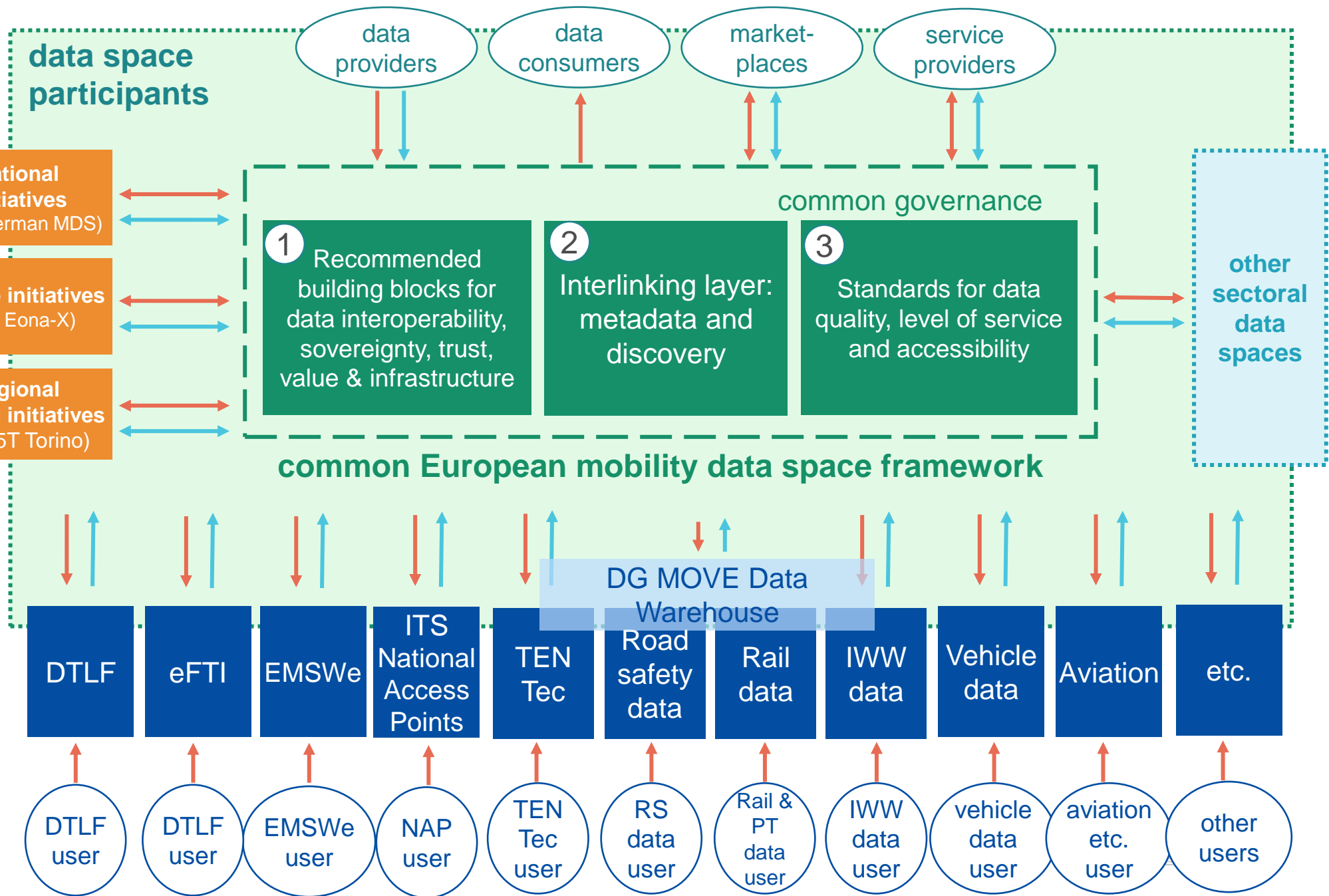
Facilitate the access to **electromobility** data at EU level and enabling services to inform users about recharging locations, prices, availability and overall characteristics of infrastructure

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Initial vision, open to changes

data space participants

data providers

data consumers

market-places

service providers

mobility data ecosystems, initiatives and plaforms

national initiatives (e.g. German MDS)

private initiatives (e.g. Eona-X)

regional & local initiatives (e.g. 5T Torino)

common governance

① Recommended building blocks for data interoperability, sovereignty, trust, value & infrastructure

② Interlinking layer: metadata and discovery

③ Standards for data quality, level of service and accessibility

other sectoral data spaces

common European mobility data space framework

DG MOVE Data Warehouse

EU mobility data domains and initiatives

DTLF

eFTI

EMSWe

ITS National Access Points

TEN Tec

Road safety data

Rail data

IWW data

Vehicle data

Aviation

etc.

→ data access/sharing

→ metadata flows

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DTLF user

DTLF user

EMSWe user

NAP user

TEN Tec user

RS data user

Rail & PT data user

IWW data user

vehicle data user

aviation etc. user

other users

Actions supporting the common European mobility data space

Preparatory action
Digital Europe Programme

12 months Coordination & Support Action – started 1/10/2022

→ Map existing mobility data ecosystems

→ Recommend first common building blocks

Deployment action
Digital Europe Programme

Call closed on 24/01/2023
Currently in Evaluation phase
Planned start Q3-Q4 2023

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

Technical assistance
Connecting Europe Facility

Technical assistance study to be launched in 2023

Followed by a deployment action in 2024-2025

→ Focus on the interlinking layer, further definition of building blocks and interoperability (TBC)

- Building on the **Data Spaces Support Centre** and **SIMPL** (open-source cloud-to-edge middleware platform)

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Initiative for a Communication

Goal: **publicly announce the objectives and proposed way forward** for the creation of the common European mobility data space.

Supported by a Call for Evidence and stakeholder input, e.g.:

- 10th Florence Intermodal Forum (25/11/2022)

- PrepDSpace4Mobility Workshops

- Public Workshop organised by DG MOVE (16/02/2023)

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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 2021-2022
Work Programmes – DIGITAL (web page) and Main work programme.

Deployment call - Funding and tenders portal
DIGITAL-2022-CLOUD-AI-03-DS-MOBILITY

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