Towards a common European mobility data space

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10th Florence Intermodal Forum
25 November 2022

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

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

→ A **common European mobility data space** to facilitate access to and sharing of mobility data

European Commission

Challenges of sharing mobility data

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 of interoperability

Dominance of large platforms capturing increasing share of value

European Commission

Key characteristics of a european data space

▶ A **secure and privacy-preserving infrastructure** to pool, access, share, process and use data.

▶ A **data governance mechanism**, comprising a set of rules of administrative and contractual nature that determine the rights to access, process, use and share data in a trustful, transparent manner and in compliance with existing legislations.

▶ **Data holders are in control** of who can have access to their data, for which purpose and under which conditions it can be used.

▶ Presence of vast amounts of data that are **made available on a voluntary basis** and can be reused against remuneration or for free, depending on the data holder's decision.

▶ Participation by an **open** number of organisations/individuals

European Commission

Key aspects for a common European mobility data space

Build on what exists

Many ecosystems and initiatives (national, private, local, etc.)

± 30 regulatory initiatives

Need to accelerate efforts to allow interoperability, including across sectors and across Member States

Seize economic opportunities

Value creation opportunities, notably based on voluntary data sharing

Need for viable business models, taking into account competition

Need to lower entry barriers and make participation easy
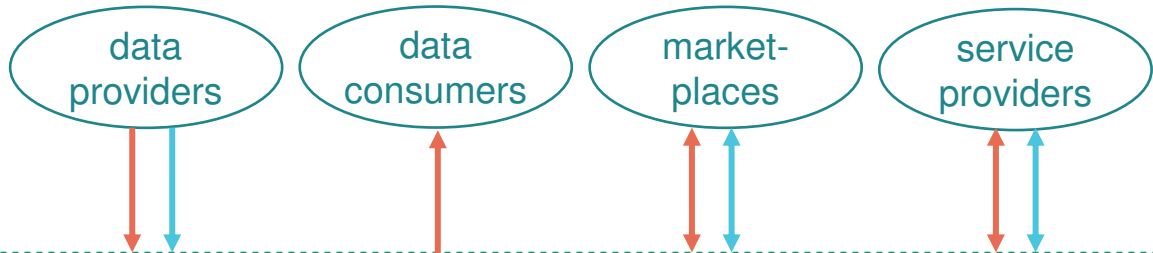
Ensure trusted data sharing

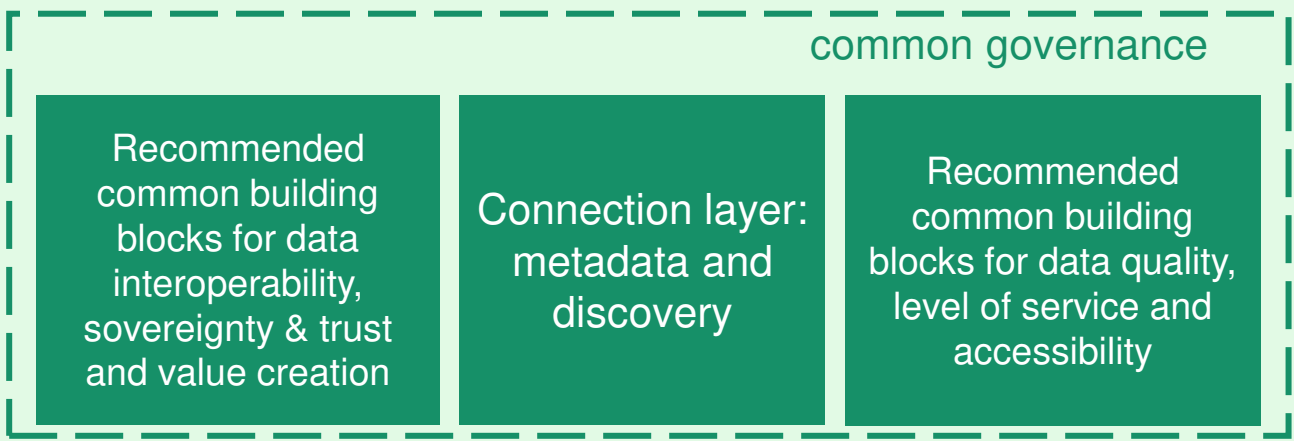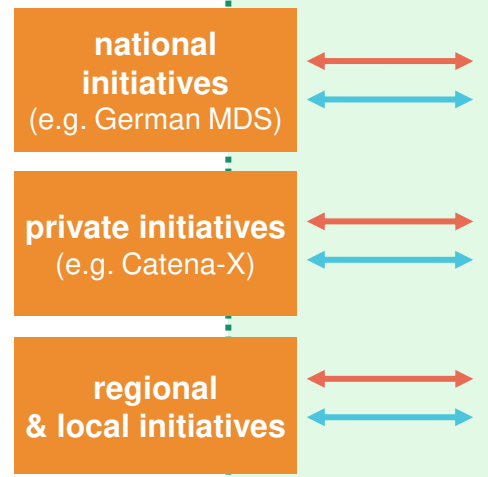Importance of data sovereignty, trust, security and privacy.

Convincing companies to participate in data spaces requires ensuring they stay in control of their data.

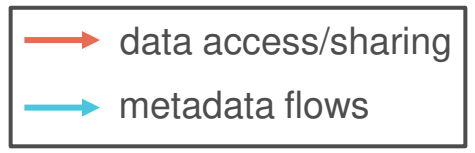European Commission
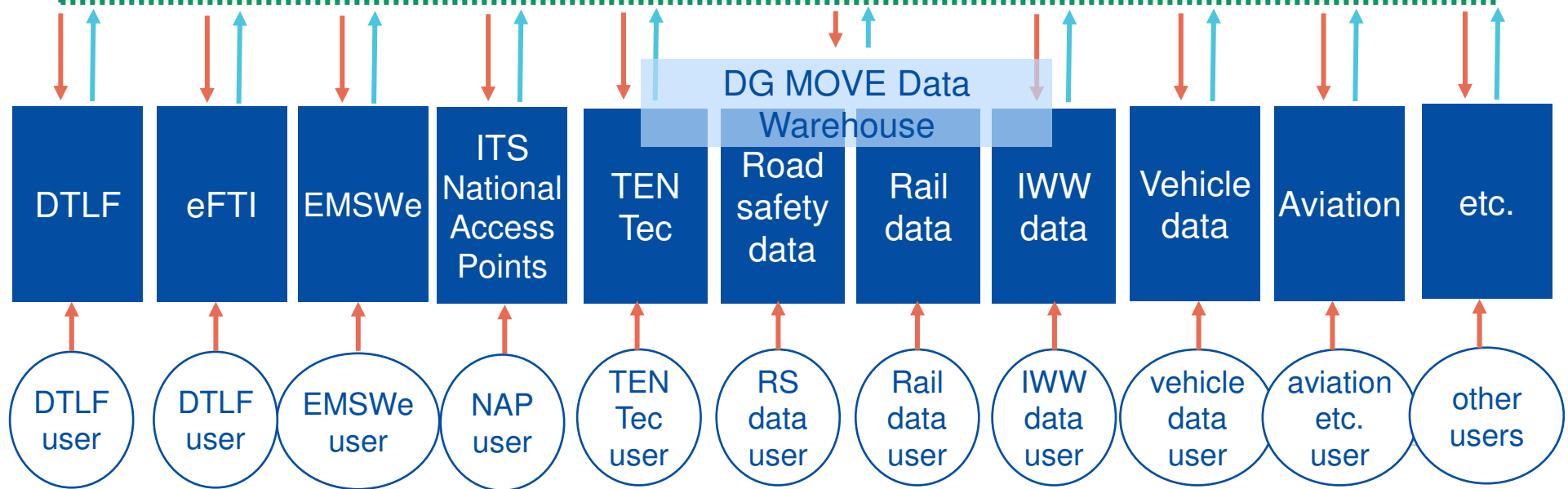
Initial vision, open to changes

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. Catena-X)

regional & local initiatives

common governance

Recommended common building blocks for data interoperability, sovereignty & trust and value creation

Connection layer: metadata and discovery

Recommended common building blocks for data quality, level of service and accessibility

other sectoral data spaces

common European mobility data space framework

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.

DG MOVE Data Warehouse

→ data access/sharing
→ metadata flows

DTLF user   DTLF user   EMSWe user   NAP user   TEN Tec user   RS data user   Rail data user   IWW data user   vehicle data user   aviation etc. user   other users

Leveraging the momentum

Ongoing data spaces-related initiatives across Europe
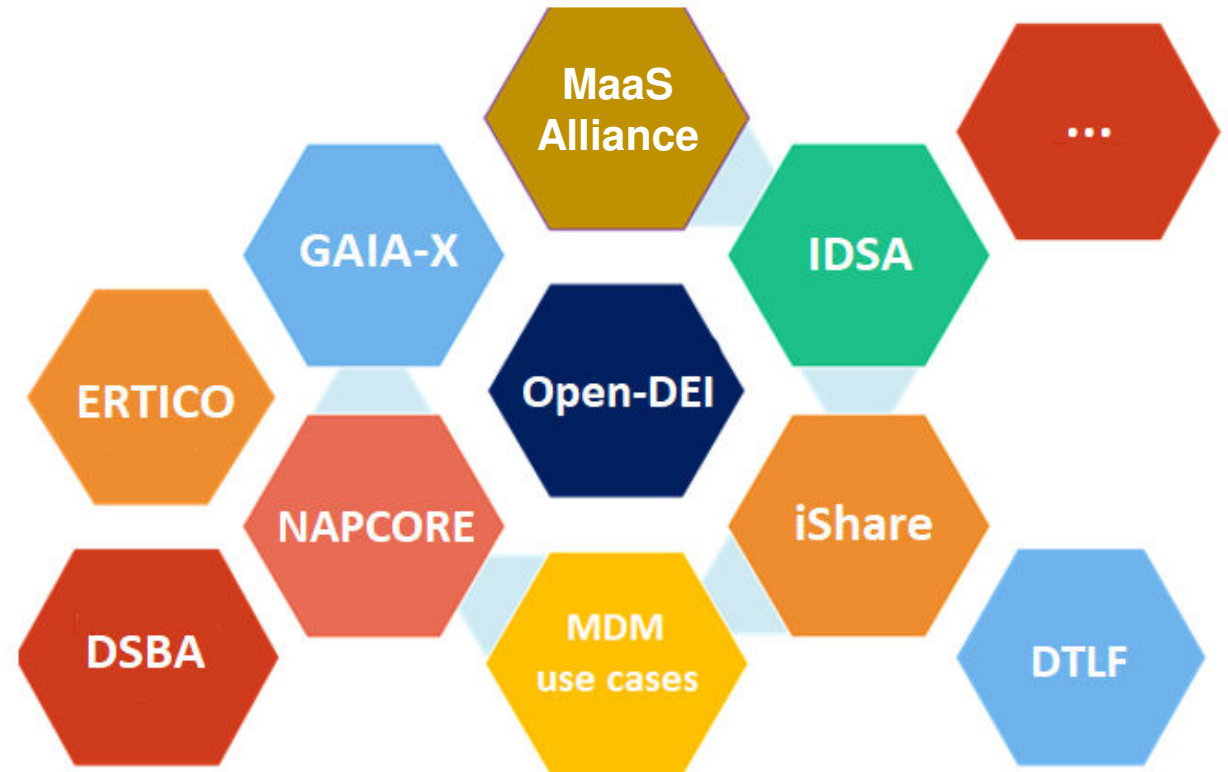
Converging guidelines worldwide

Thank you

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