



Digital Europe programme and the common European mobility data space

Workshop on synergies between Horizon Europe
and other EU funding programmes to support road transport

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Digital Europe Programme:

recap the main objectives

strategic autonomy



Compete globally

Other regions of the world invest huge amount of public capital in advanced technologies. For example, the US and China spend € 10-20 billion annually on AI alone



Better address Europe's economic and societal challenges

E.g. climate, health, mobility and public services



Achieve scale through collective co-investments

Given the size of investments needed, scale required and risks involved Europe needs to pool the resources together



Ensure broad take-up of digital technologies across all regions of EU

In deploying latest technologies to offer best services to citizens and business



Regain control over Europe's value chains

and ensure Europe's technological sovereignty



Support SMEs to acquire or access the latest technologies and skills

More than 400,000 EU vacancies in these fields

Digitally-enabled next generation mobility solutions



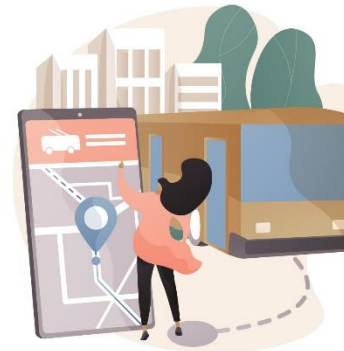
Electric and decarbonised mobility



Connected and automated vehicles



User-centric shared mobility services



Seamless multimodal mobility



Key digital enablers

data sharing, cloud-edge-IoT, AI, chips, 5G



Digital Europe programme structure

High-performance computing

- Procure exascale machines
- Upgrade existing supercomputers
- Quantum computing
- Widen the access to and use of supercomputing

Cybersecurity

- Deploy competence centers network
- Cybersecurity shield, quantum communication infrastructure - QCI
- Certification schemes
- Cybersecurity tools

European digital innovation hubs

- At least one per MS or Associated Country

Artificial intelligence

- Data4EU: common European Data Spaces, clouds, platforms and infrastructure
- Large Testing and Experimentation Facilities for Agriculture, health, mobility, manufacturing and AI edge HW
- Scale up the European AI platform to access tested AI technologies

Advanced digital skills

- Master courses
- Short term trainings
- Job placements
- Platform for Skills and Jobs

Deployments : emphasis on

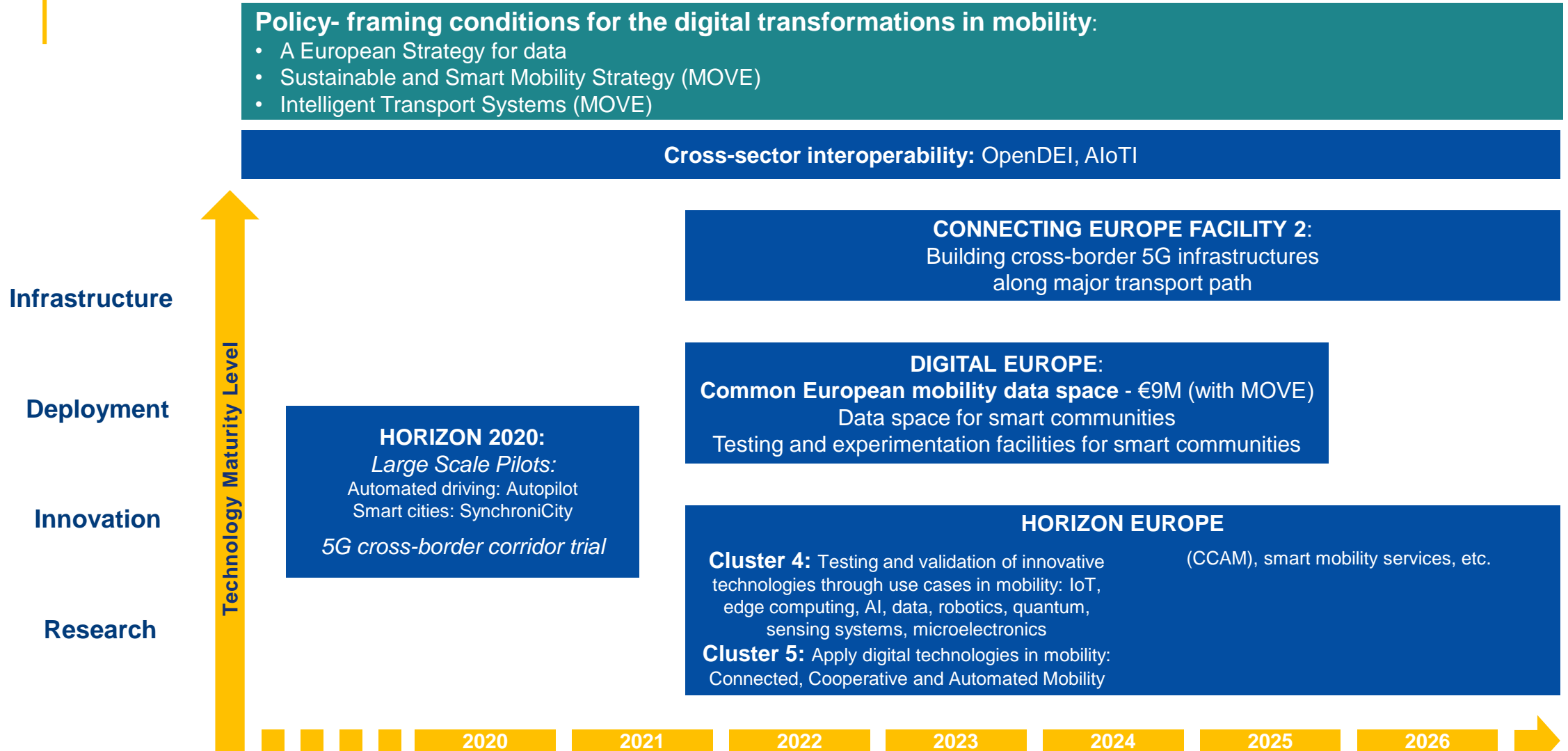
- Destination Earth
- Digital twins for smart communities
- Further investments (CEF – ISA2) & Interoperability
- Blockchain
- Enhancing confidence in the digital transformation



Digital Europe is complementary to other programmes with investments in digital



Support for the digital transformation of the Mobility Sector



Horizon Europe Vs DIGITAL – specific issues

Funding schemes :

- Similar but not exactly the same to Horizon Europe, e.g.
 - Grants with cost reimbursement 50% for everybody or with 75% for SMEs
 - CSA at 100%
 - Wider use of procurement
- Focus is on **delivery actual results**. It will make use of the most recent research results, but it will not support research.
- For example, the programmes will support:
 - The acquisition of HPC machines
 - The set-up of sectorial data spaces, eg manufacturing
 - The building or reinforcing of Testing and Experimentation Facilities
 - The set up and delivery of Master courses in key advanced digital technologies
 - The set-up, interoperability, operations and maintenance of a number of services in the eGov area

Common European mobility data space

At the crossroads of two EU strategies

Data Strategy



Establish a single market for data by enabling data sharing and establishing fair and clear rules on data use and access.

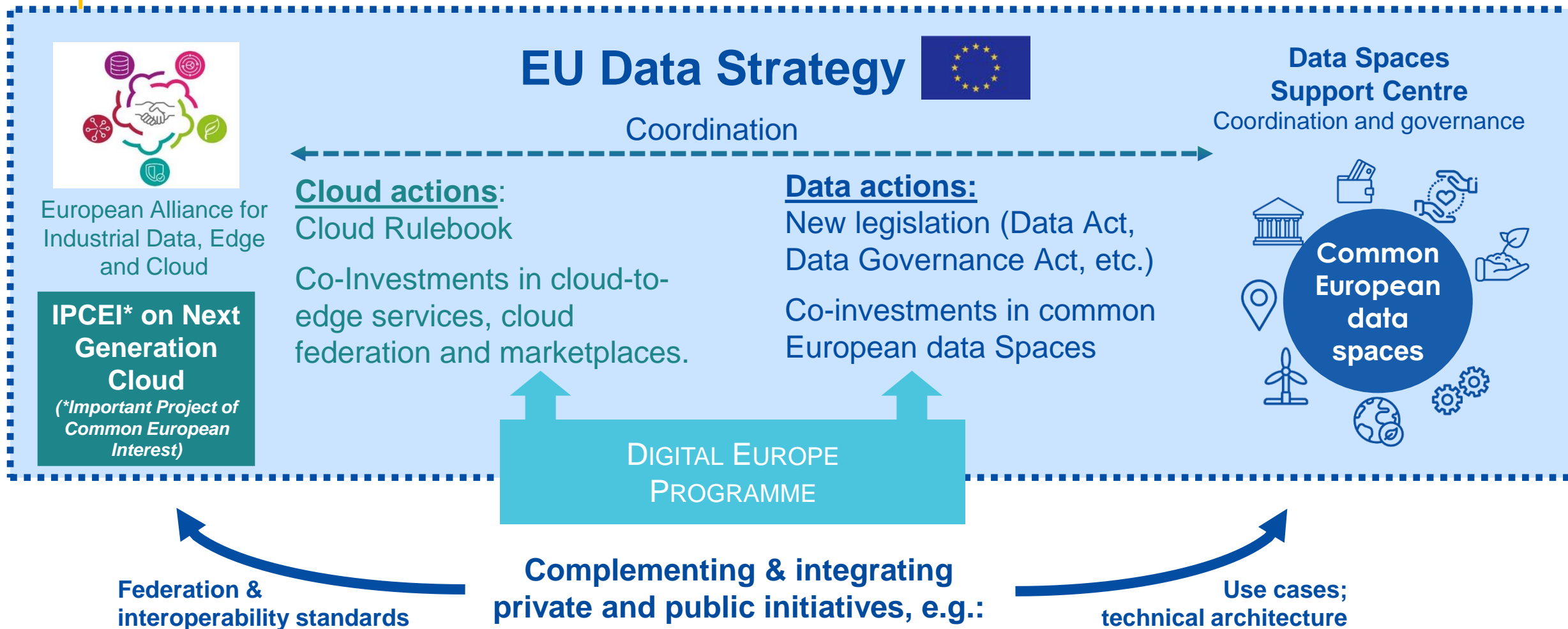
Sustainable and smart mobility strategy



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

The European Data strategy



Benefits of sharing mobility data



Easier to find the **most suitable travel options** for travellers



New mobility services (e.g. smart parking, charging)



Better monitoring, planning and management of traffic and transport infrastructure by **authorities**



Improved operations: optimised use of vehicles and itineraries in logistics, easier reporting to authorities



Safer mobility: e.g. use of sensor data to alert other vehicles of dangers



Sector coupling: use of electric vehicle data to optimise energy consumption and production



Faster **innovation in AI** for transport and mobility (e.g. autonomous driving) by pooling data

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

Preparatory action for a European data space for mobility (call 1)

DIGITAL-2021-CLOUD-AI-01-PREP-DS-MOB



Make an **inventory of existing mobility data initiatives, ecosystems and platforms** and their main characteristics



Propose **common building** blocks (technical, governance, business models) and explore **options for a common framework** for data sharing in the mobility sector



Bring stakeholders together and **encourage convergence** in the diverse mobility and transport ecosystem



Work with the Data Spaces Support Centre and the Alliance for Industrial Data, Cloud and Edge to **ensure alignment with the emerging ecosystem of data spaces**

Data space for mobility - deployment (call 3)

DIGITAL-2022-CLOUD-AI-03-DS-MOBILITY

Call closes
24/01/2023

Key activities (summary)

Deploy an operational data space allowing participants to make data available and share data in a controlled, simple and secure way.

Projects will address: (1) data for EU sustainable urban mobility indicators and (2) traffic and travel information at urban level.

Primary focus: deployment of mobility data sharing use cases based on data space building blocks. Can be accompanied by activities related to the digitalisation of processes.

Objectives and success factors

Support the creation and deployment through real-life implementation projects of a **technical infrastructure** combined with **governance mechanisms** to facilitate data access and sharing.

Built and operated in **full compliance with existing and upcoming EU legislation** in the transport and mobility sector

Key characteristics of a data space

- A **secure and privacy-preserving IT infrastructure** to pool, access, process, use and share 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 and transparent manner.
- **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.

Timeline for Digital Europe Programme

Call 1 for preparatory action (CSA) €1 million

Open:
17/11 – 22/02

Evaluation:
14/03 –
29/04

evaluation
results:
16/06

Grant agreement
signature:
09/2022

**We are
here!**

Project duration 12 months



2021 2022

Call 3 Deployment €8 million

Open:
29/09 – 24/1
2023

2023

Evaluation:
03/2023

evaluation
results:
05/2023

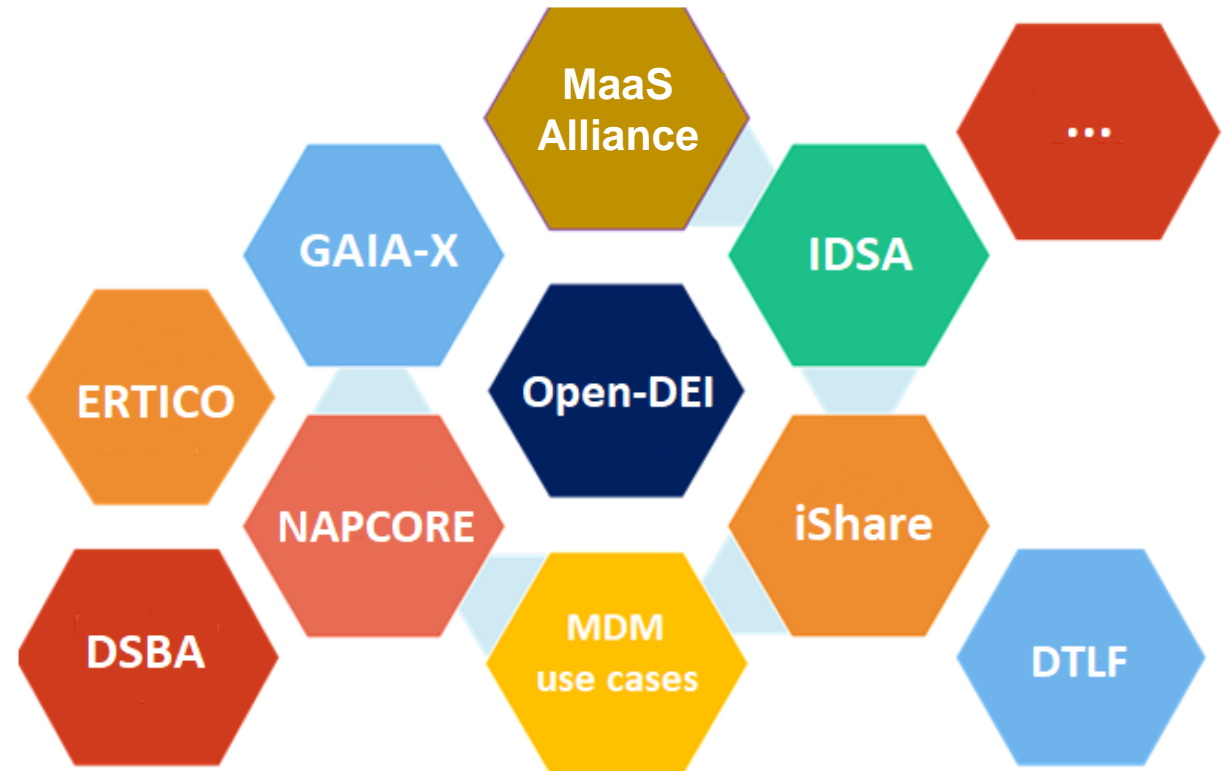
Grant
agreement
signature:
10/2023

Project duration
24 months

Leveraging the momentum



Ongoing data spaces-related initiatives across Europe



Converging guidelines worldwide

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.](#)

Funding and tenders portal

[DIGITAL-2022-CLOUD-AI-03-DS-MOBILITY](#) (Deployment action – Call 3 open)

[DIGITAL-2021-CLOUD-AI-01-PREP-DS-MOB](#) (CSA – Call 1 closed)

Staff working document on data spaces

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

Thank you



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