



NAPs in the European Mobility Data Space Strategic Session

7 November 2023

Timo Hoffmann

NAPCORE General Secretary



Co-funded by
the European Union

Agenda for this Strategic Session

- NAPCORE activities related to EMDS
- PrepDSpace4Mobility & DeployEMDS
 - quick summary
 - slides from PrepDSpace4Mobility & DeployEMDS project coordinator
- Data for Road Safety: pilot use case using a combination of MDS components and NAPs in the field of SRTI
- Discussion

➤ **Goal for today:**

for us to get a better understanding of your view on how NAPs and EMDS „fit together“

(and maybe: where the differences are)



NAPCORE activities related to EMDS

- We already had some discussions on how „we“ understand EMDS and the role of the NAPs in it
 - At NAPCORE Steering Committee Meetings
 - At previous Advisory Board Meetings
 - With a dedicated group of WGI members

NAPCORE activities related to EMDS

- Published a paper in the Network Industries Quarterly
 - [Link](#)

dossier

Possible Roles of National Access Points in the European Mobility Data Space

Maryse Bücking¹, Holger Drees², Olivier Gavaud³, Damaris Anna Gruber⁴, Timo Hoffmann⁵, Eva Thelisson⁶, Annet van Veenendaal⁷

National access points (NAPs) are a key component of the Member States' digital infrastructure for exchanging mobility data in Europe. The role of NAPs in the upcoming European Mobility Data Space is to be defined by the NAPCORE project, with some thoughts from initial discussions as set out here.

NAPs in the EMDS paper

- In the paper we described the background of both the NAPs (ITS Directive & Delegated Regulations) and the EMDS
- We listed areas of activity for NAPCORE
- Short paper submitted to TRA 24

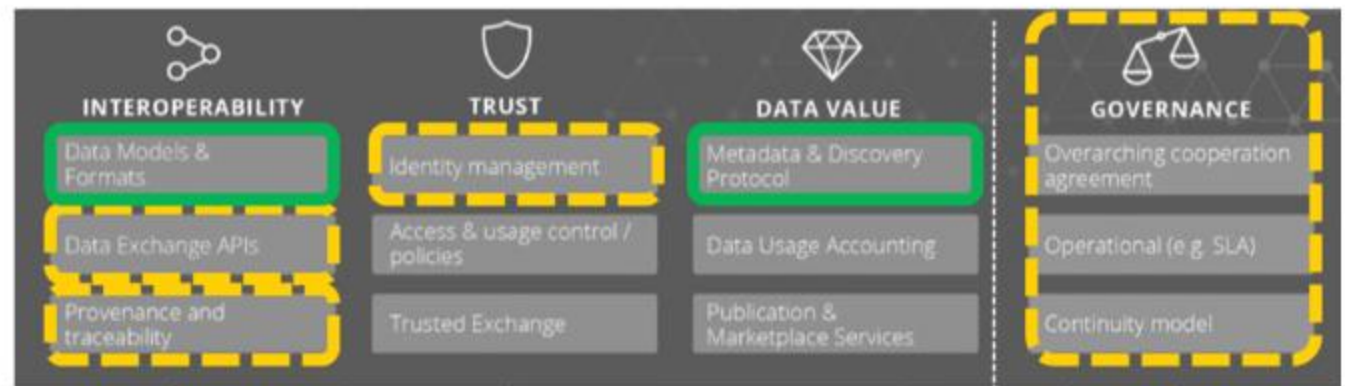


Figure 1: OPEN DEI building blocks for Data Spaces (from Nagel and Lycklama, 2021) and their relevance to NAPs (solid green: current NAPCORE activities with high relevance; dashed yellow: potential future relevance).

„Results“ so far

- Still no clear or common picture
- We seem to align on:
 1. The European NAPs are part of the EMDS
 2. NAPs are a key component of the EMDS

PrepDSpace4Mobility and DeployEMDS

- We followed the actions of the PrepDSpace4Mobility project closely
- We met with the project consortium in dedicated bilateral meetings two times
- Some NAPCORE partners are also partners in PrepDSpace4Mobility
- Final report has been published on the project website

DeployEMDS

- DeployEMDS is the follow-up project to PrepDSpace4Mobility
- This time not an evaluation study but focussed on deployments as „pilot implementations“
- Also here: some partners are both in NAPCORE and in DeployEMDS
- Kick-off this week in Barcelona
- We plan to keep close contact!



Towards a common European mobility data space (EMDS)

From PrepDSpace4Mobility to deployEMDS

NAPCORE Advisory Board Meeting, Budapest

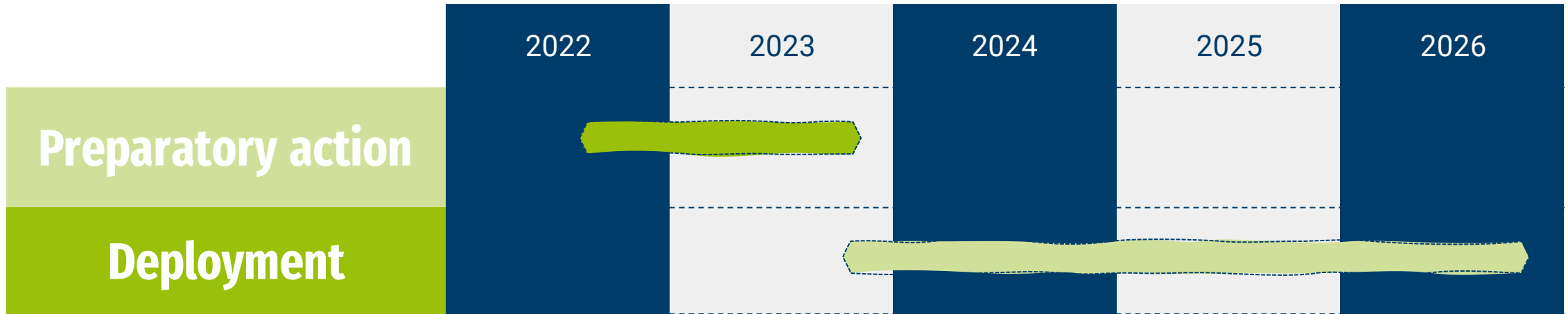
7th of November, 2023

Project coordinator: Lucie Kirstein (Kirstein@acatech.de)



NATIONAL ACADEMY OF
SCIENCE AND ENGINEERING

Supporting the European mobility data space (EMDS)



PrepDSpace4Mobility

17 European Partners map existing data ecosystems and recommend the building blocks for a future EMDS.



deployEMDS

45 European Partners create a functioning technical infrastructure and governance that will be deployed in use cases in 9 European cities and regions.



PrepDSpace4Mobility (Oct 2022 – Sep 2023)



The project

- “Preparatory action to establish a common European data space for mobility” CSA
- 12 months (ended in Sept 2023)
- EUR 1 million
- 17 partners
- Funded under Digital Europe

Deliverables

- Inventory of mobility and logistics data ecosystems: <https://mobilitydataspace-csa.eu/inventory>
- Proposed building blocks and ~200-p. analysis report: <https://mobilitydataspace-csa.eu/pillars/>



Associated Partners



Developing the EMDS towards operation



...addressing three different roles of the EMDS:

- The role of the EMDS as coordination body
- The role of the EMDS as operational mobility data space
- The role of the EMDS as governance authority

Uncertainties about governance in practice

Strong
operational
role



EC driven initiative or organisation

EDIC as backbone of the EMDS

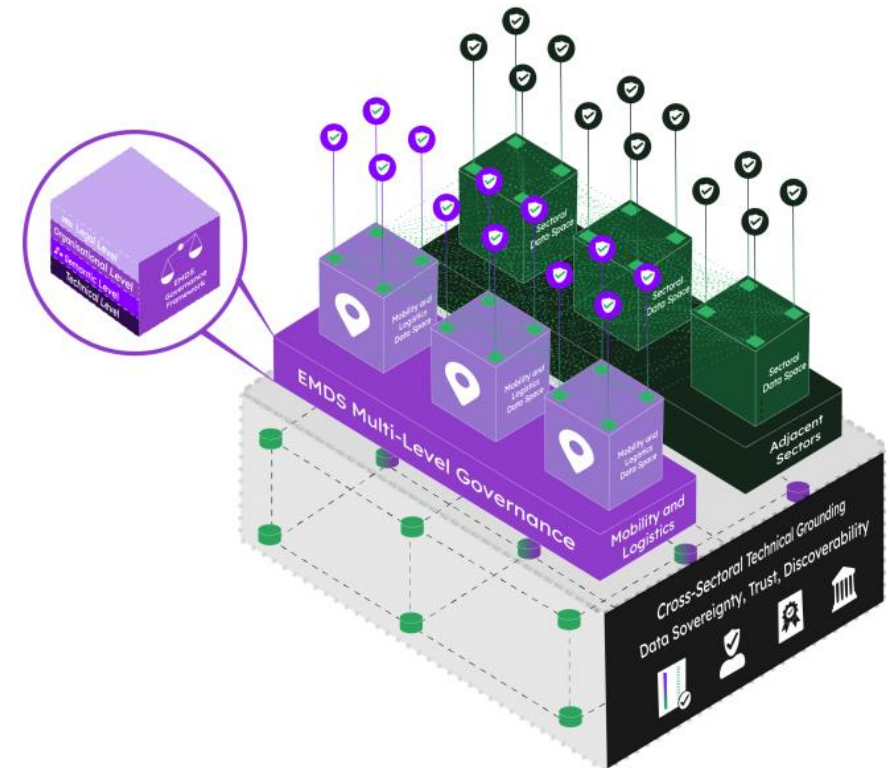
European association of data spaces in mobility

Governance framework only

Expert working group providing guidelines

Limited
operational
role

Towards creation of an “Interlinking Layer”





deployEMDS (Nov 2023 – Oct 2026)

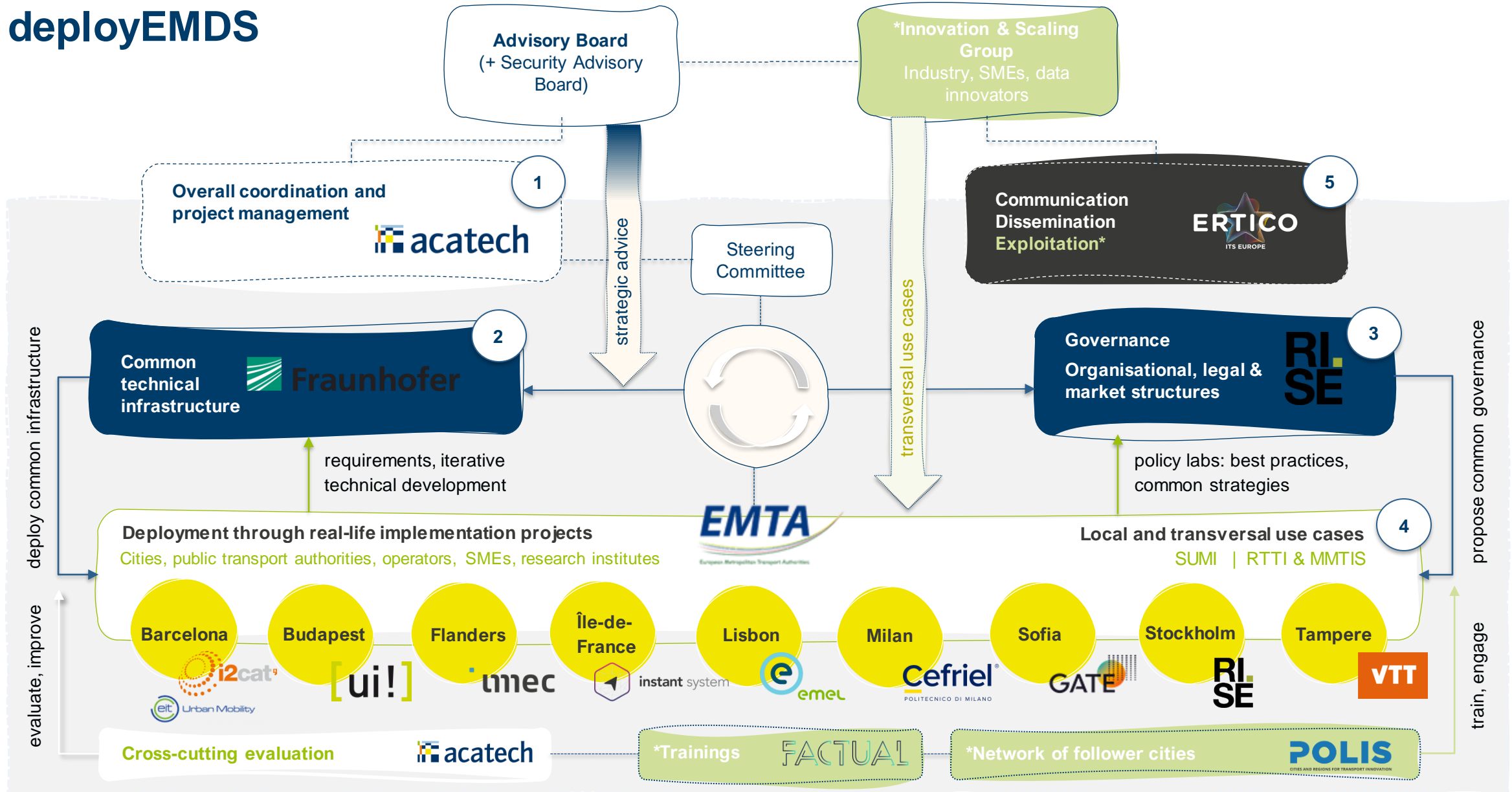
deployEMDS at a glance

36 months (Nov 2023 – Oct 2026) | Budget: ~EUR 16 million

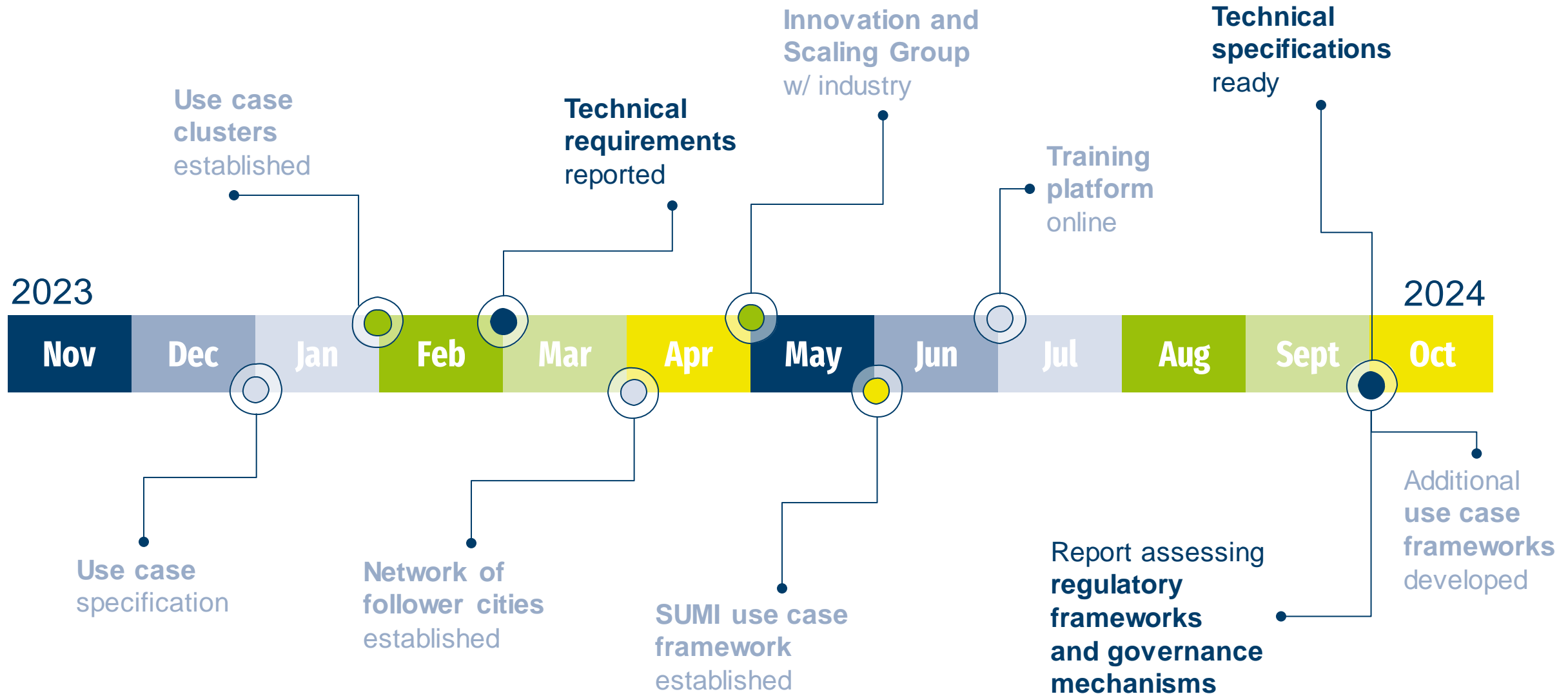
38 beneficiaries (cities, regions, technical & domain expertise) | 7 associated partners



deployEMDS



Milestones and deliverables within the first year



DFRS Pilot



Data for Road Safety: MDS pilot

NAPCORE Mobility Data Days
07.11.2023 | Holger Drees | BAST

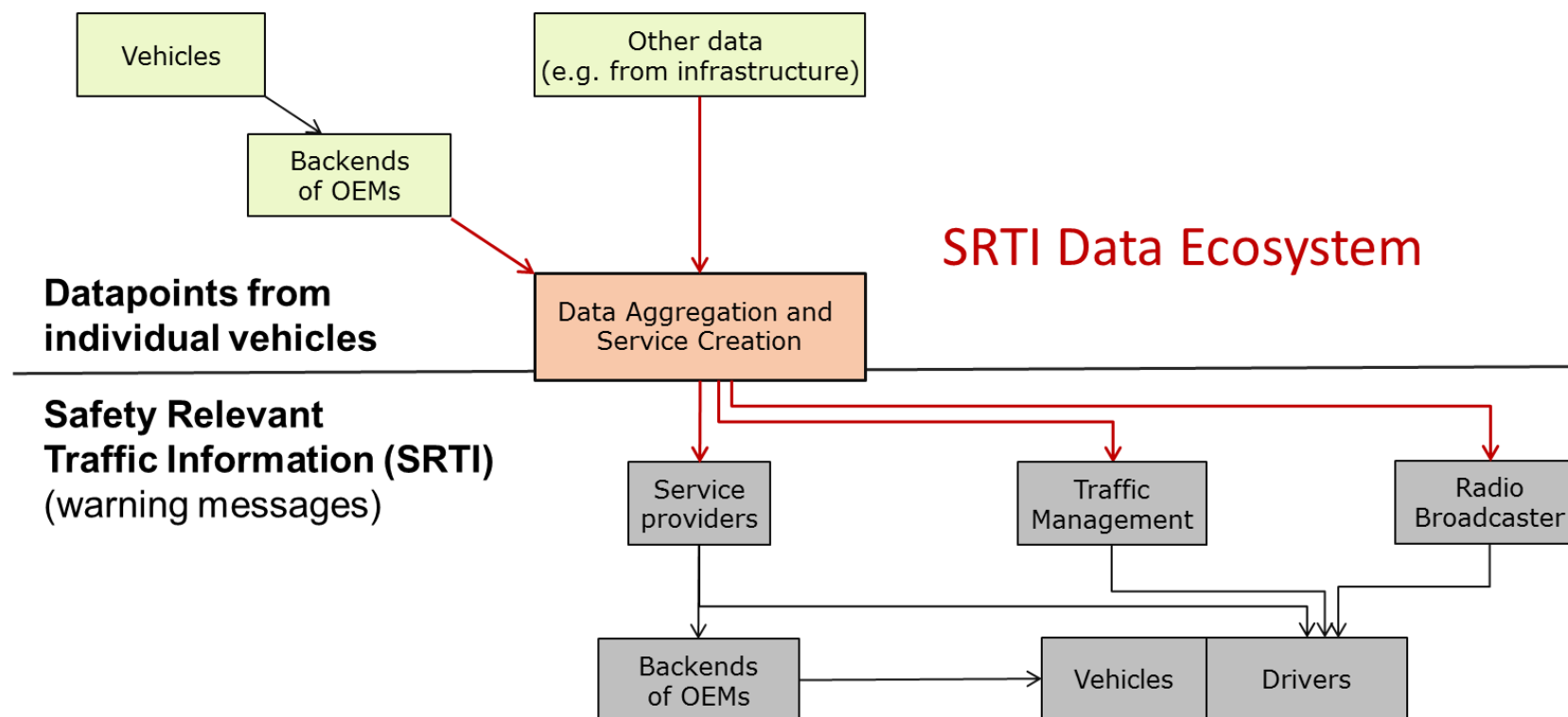


Data for Road Safety (DFRS)

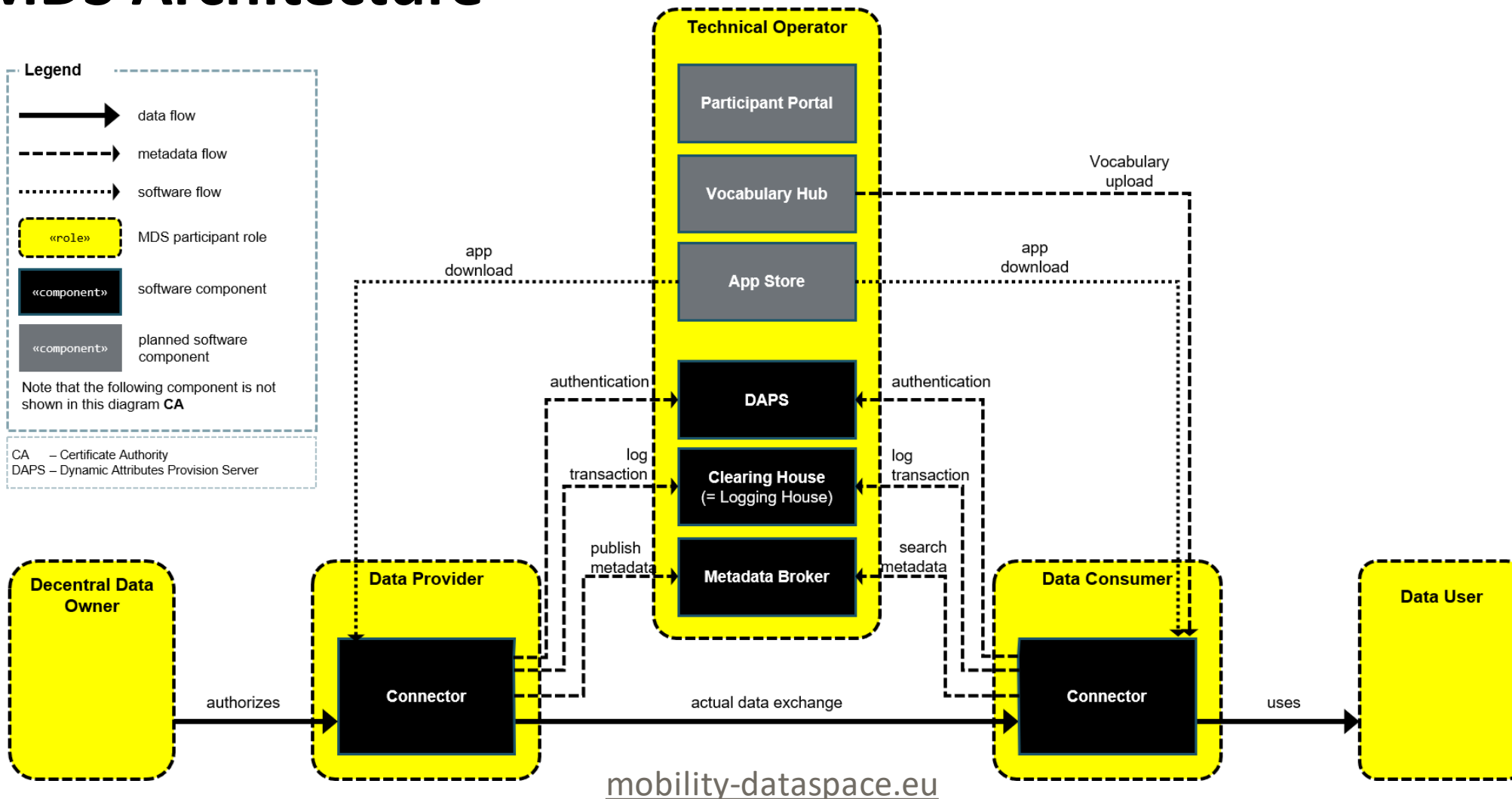
- ▶ 8 SRTI categories from Del. Reg. 886/2013
 - ▶ Some of these dangerous situations can be detected well / efficiently / better by vehicles on the road
- ▶ Key principles:
 - ▶ Free of charge
 - ▶ On the basis of reciprocity
 - ▶ Together for road safety
 - ▶ Decentralized
 - ▶ Allowed usage in commercial settings

dataforroadsafety.eu

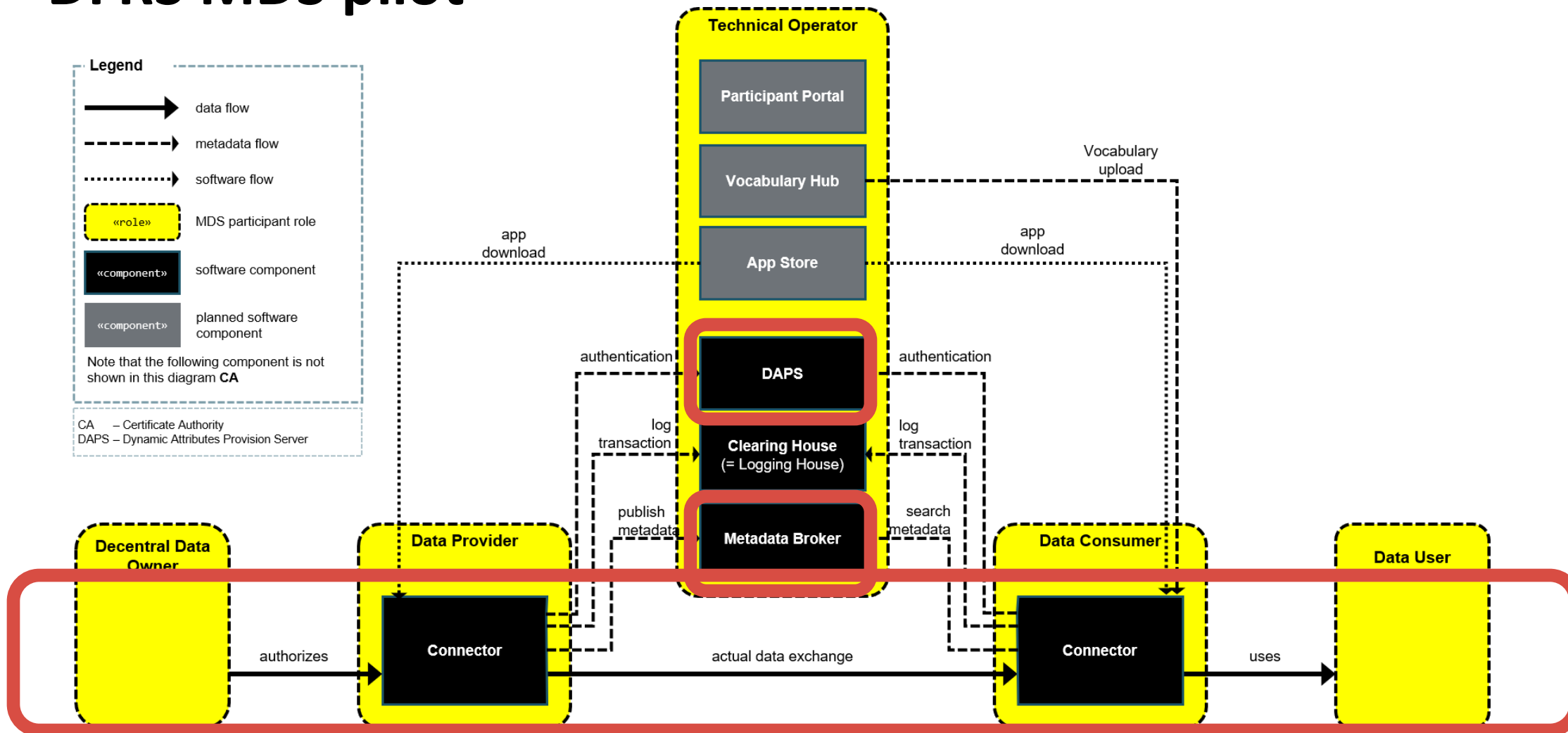
Data for Road Safety (DFRS)



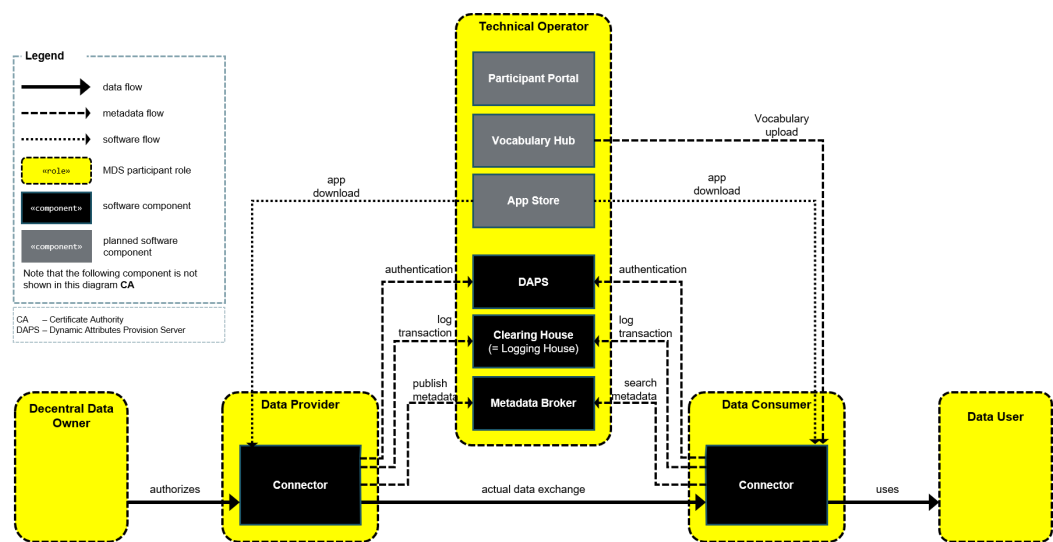
MDS Architecture



DFRS MDS pilot

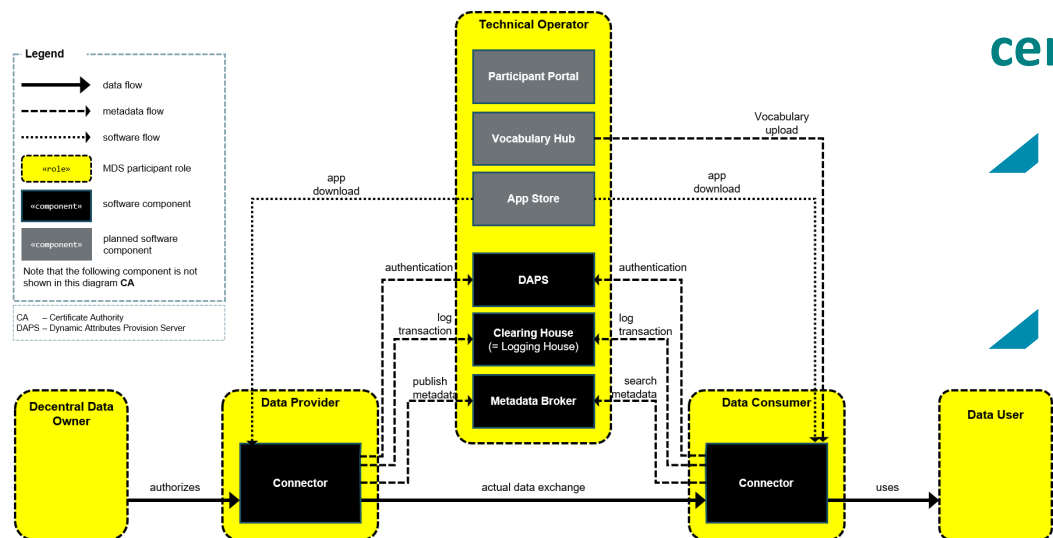


DFRS MDS pilot



- Connector on premise or Connector as a service
- Data exchange of SRTI data achieved between BMW and Post LU

Reasons for using MDS



central services

- easy-to-use and mature metadata directory
- Clearing House
- monitoring and logging for transparency

decentralized data exchange

- MDS Connector
- Usage policies
- Data sovereignty



open source

EDC framework as de-facto industry standard for data spaces
 streamline way of data sharing within DFRS

++ scalable approach ++ free use in 2024

Holger Drees

Connected Mobility

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