

14- 17 November 2022

TRA 2022

mobilithek

The National Access Point for Mobility Data

Goals, features, further development

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Review of mCLOUD and MDM

mCLOUD – the Open Data Portal of BMDV

- As of 04/2022: approx. 5,000 open data sources (metadata), of which
 - > 2,000 open data sources from the BMDV business area and BMDV research projects (~ 400 mFUND)
- Open mobility data from federal states, municipalities, transport associations
- Differentiation from GovData: also open data from private companies and research data, focus on mobility
- Distinction from MDM: only open data, no data distribution



MobilityDataMarketplace: the current NAP for Germany

Key performance indicators (as of 04/2022):

- Data publications: 2,200
- Data subscriptions: 5,200
- Active organisations: 670
- Active subscribers: 340
- Volume of data submissions per month: 11.5 TB
- Volume of data deliveries per month: 38.4 TB
- Average latency per data packet: 0.4 s

Support and coordination of data actors and stakeholders

- MDM User Group in Germany
- Harmonisation of NAPs in Europe



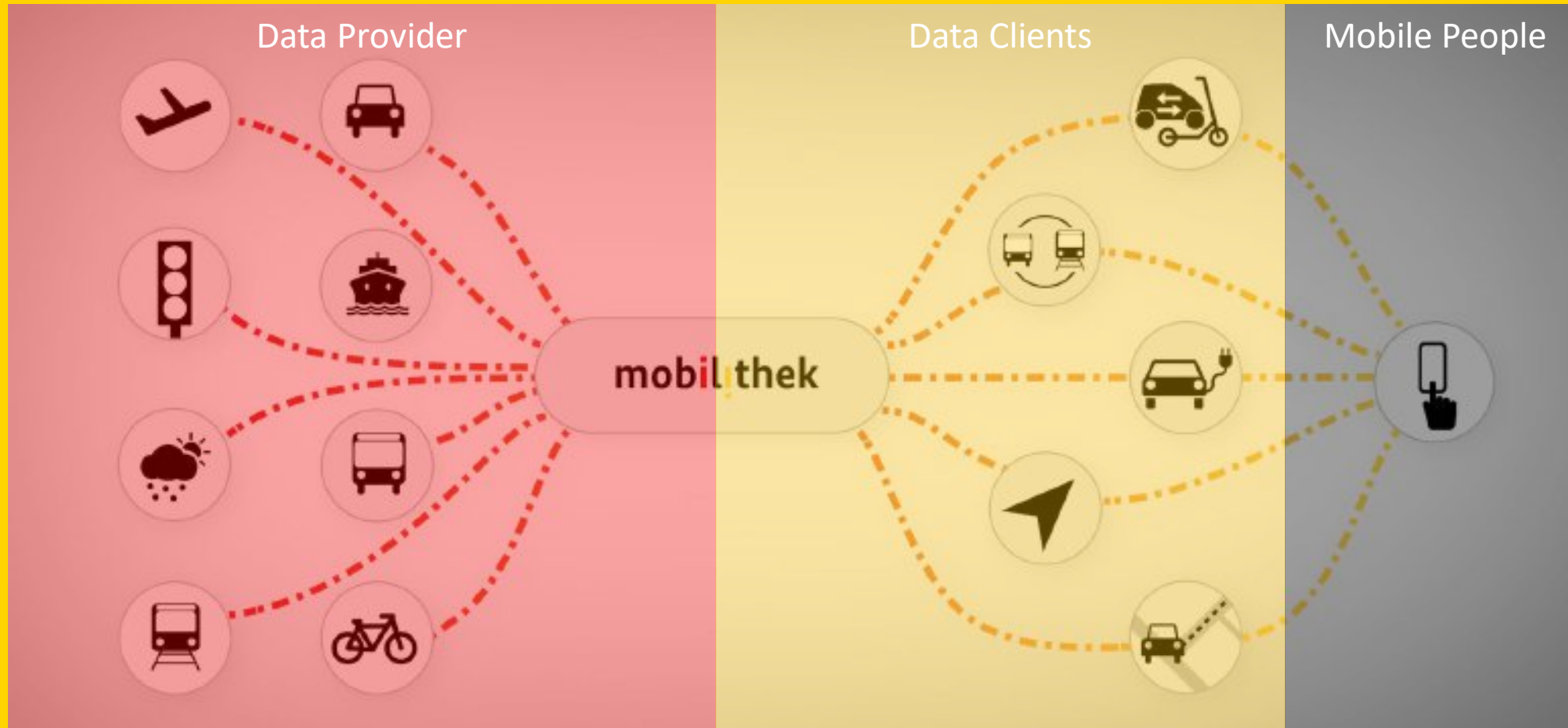
Why a new platform?

New development necessary due to requirements for scalability, processing of real-time data and connection of secure environments for data processing.

- Not practical to implement with MDM or mCLOUD as a base platform
- MDM: proprietary architecture, limited possibilities for expansion
- mCLOUD: designed as information portal, not as data distributor

Outlook for the Mobilithek

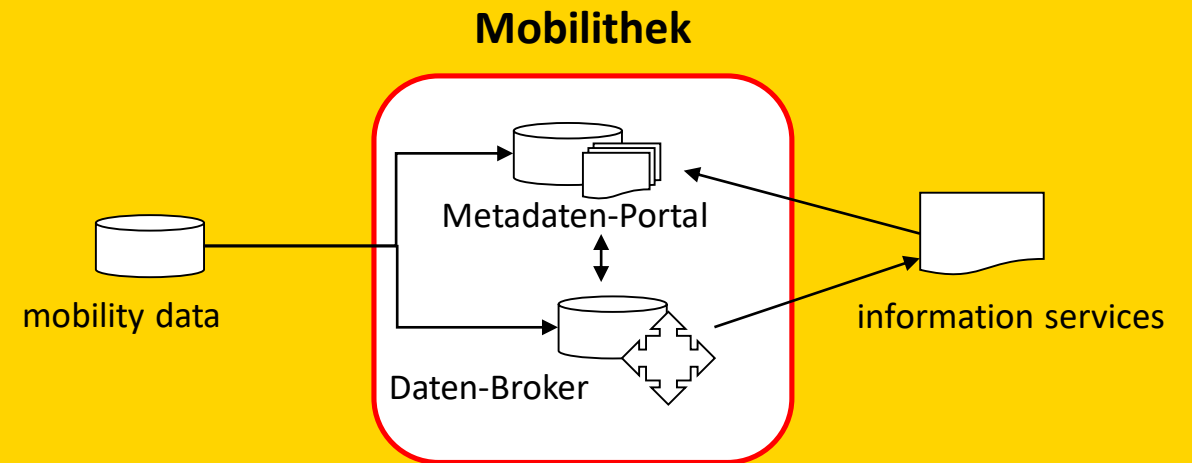
Germany's data platform that gets you moving



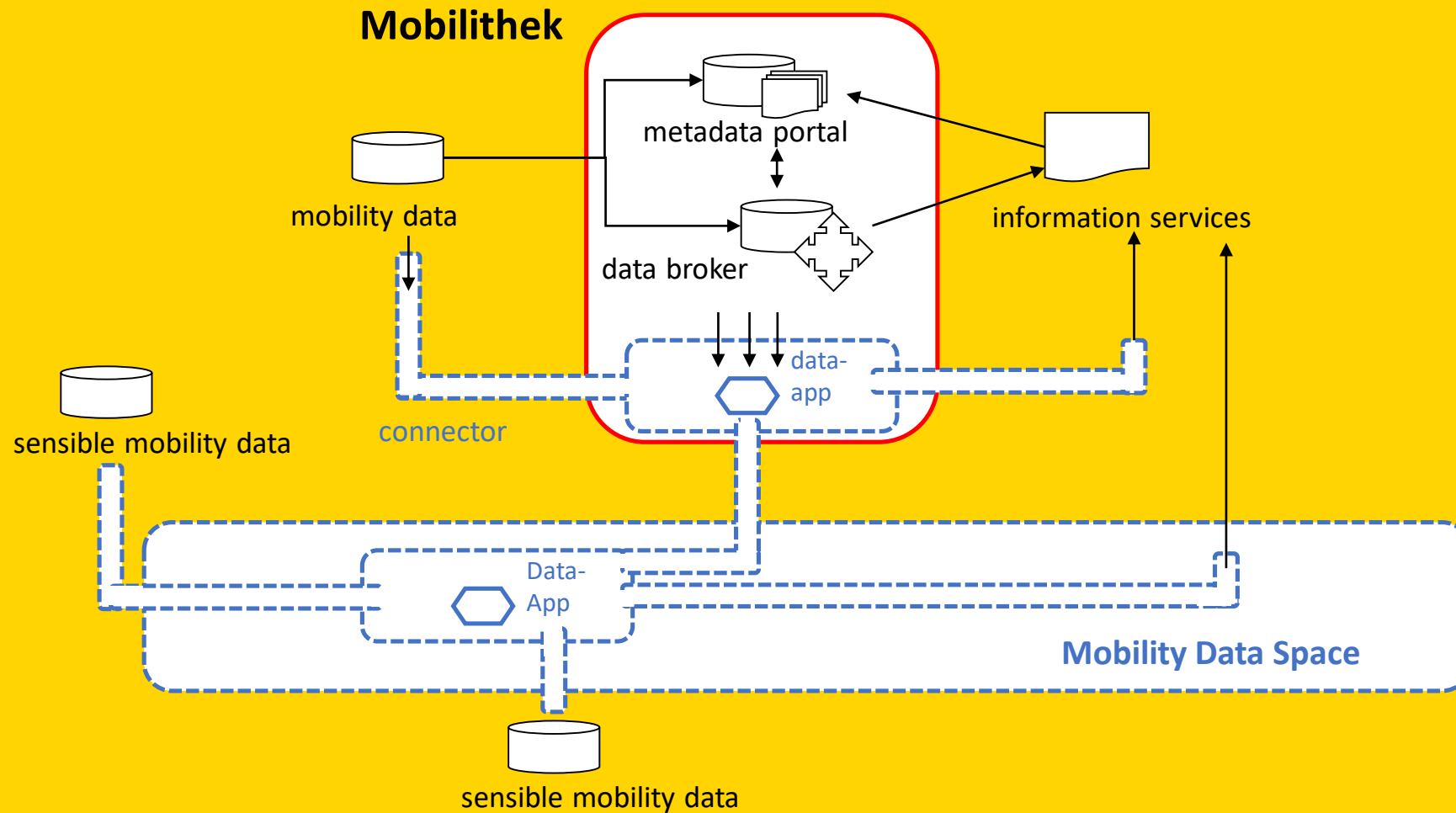
Architecture concept

Functional levels

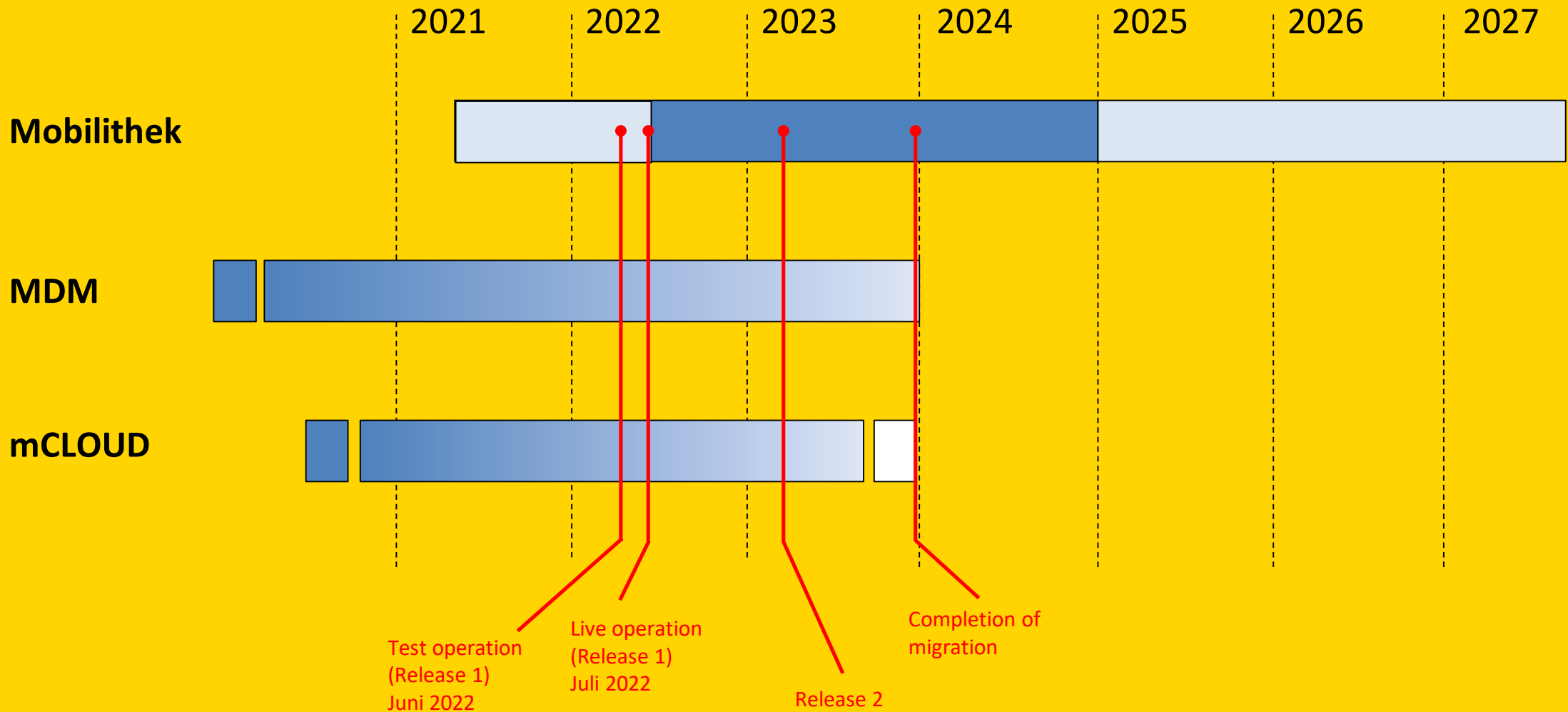
- Portal function: metadata directory for searching and finding data offers
- Broker function: data distribution between data providers and data clients
- New: Data app space - linking of apps for data processing in secure connectors



Architecture concept

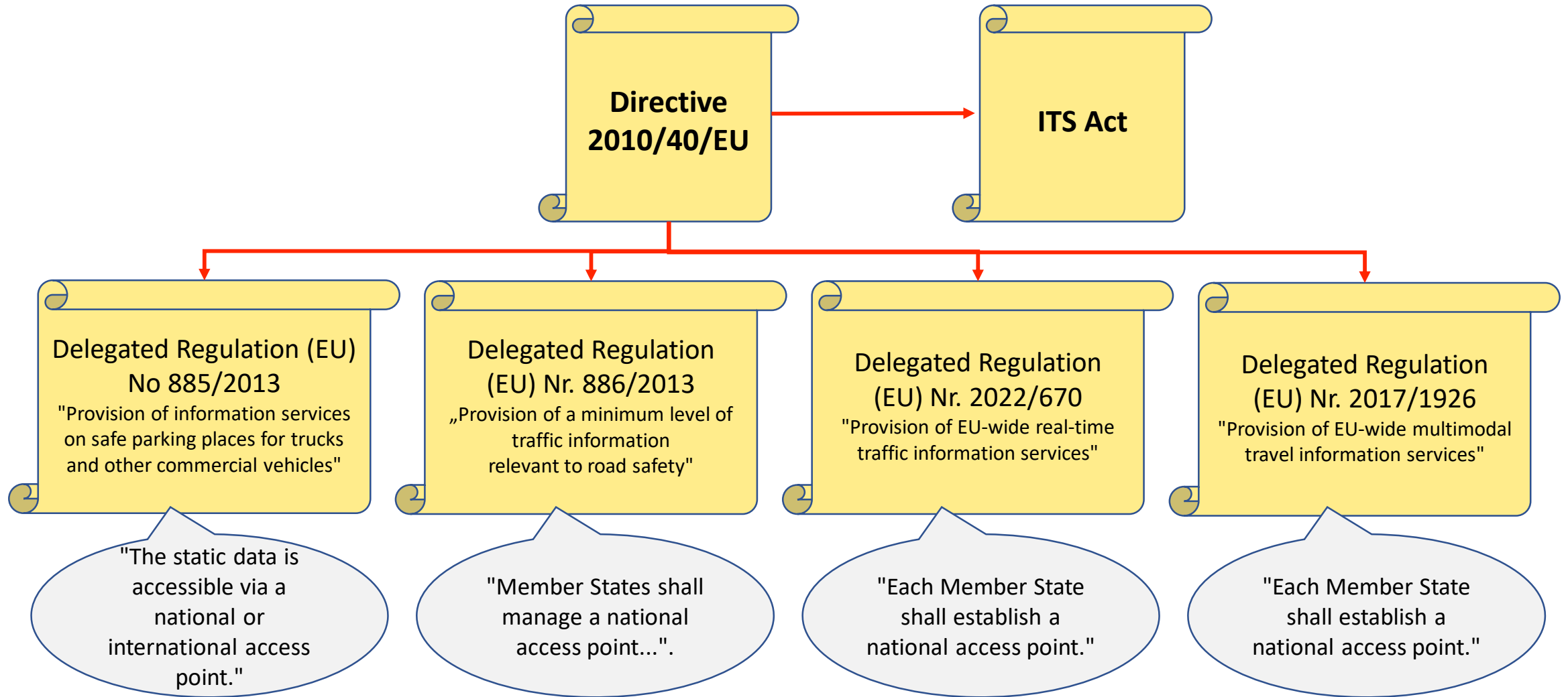


Road Map



Mobilithek as National Access Point

European legal framework: ITS Directive



NAPs as core elements for the digitalisation of mobility

- Enable access, exchange and use of data
- Connect data providers and users
- Support EU-wide interoperable ITS services
- Mandated by the EU Commission on the basis of the ITS Directive

https://transport.ec.europa.eu/transport-themes/intelligent-transport-systems/road/action-plan-and-directive_en



National legal framework

Passenger Transport Act
Amendment: 16.4.2021

"The Transport companies and the intermediaries are obliged to provide the following static and dynamic data as well as the corresponding metadata [...] via the National Access Point [...]".

§ 12a EGovG

"The federal authorities [...] shall provide unprocessed machine-readable data [...].
[...] Metadata shall be posted on the national metadata portal GovData."

Mobility Data Regulation
New: 21.07.2021
2nd amendment: 01.07.2022

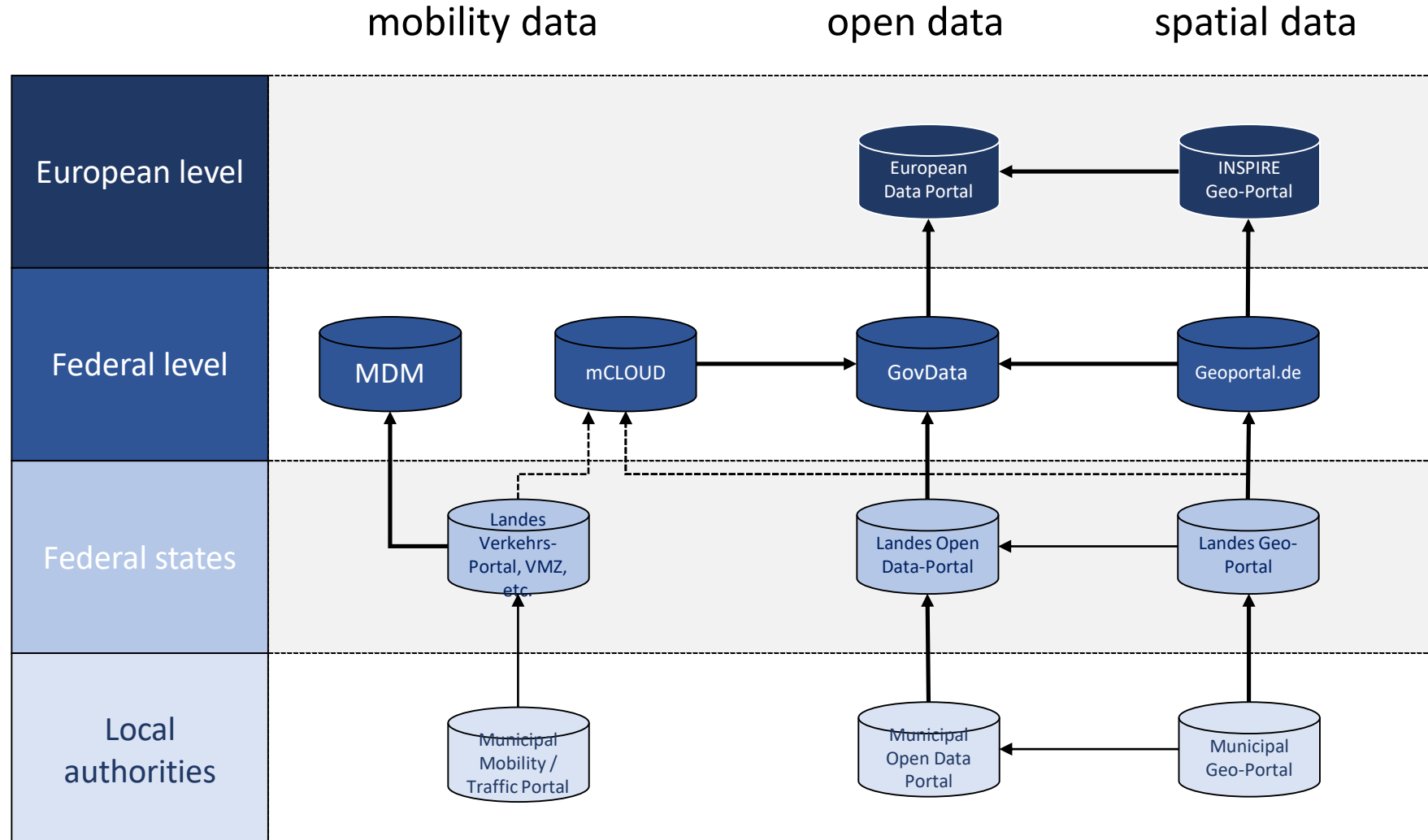
"...to provide the data listed in the Annex via the National Access Point operated by the Federal Highway Research Institute on behalf of the Federal Ministry for Digital and Transport ..."

Data Usage Act - DNG

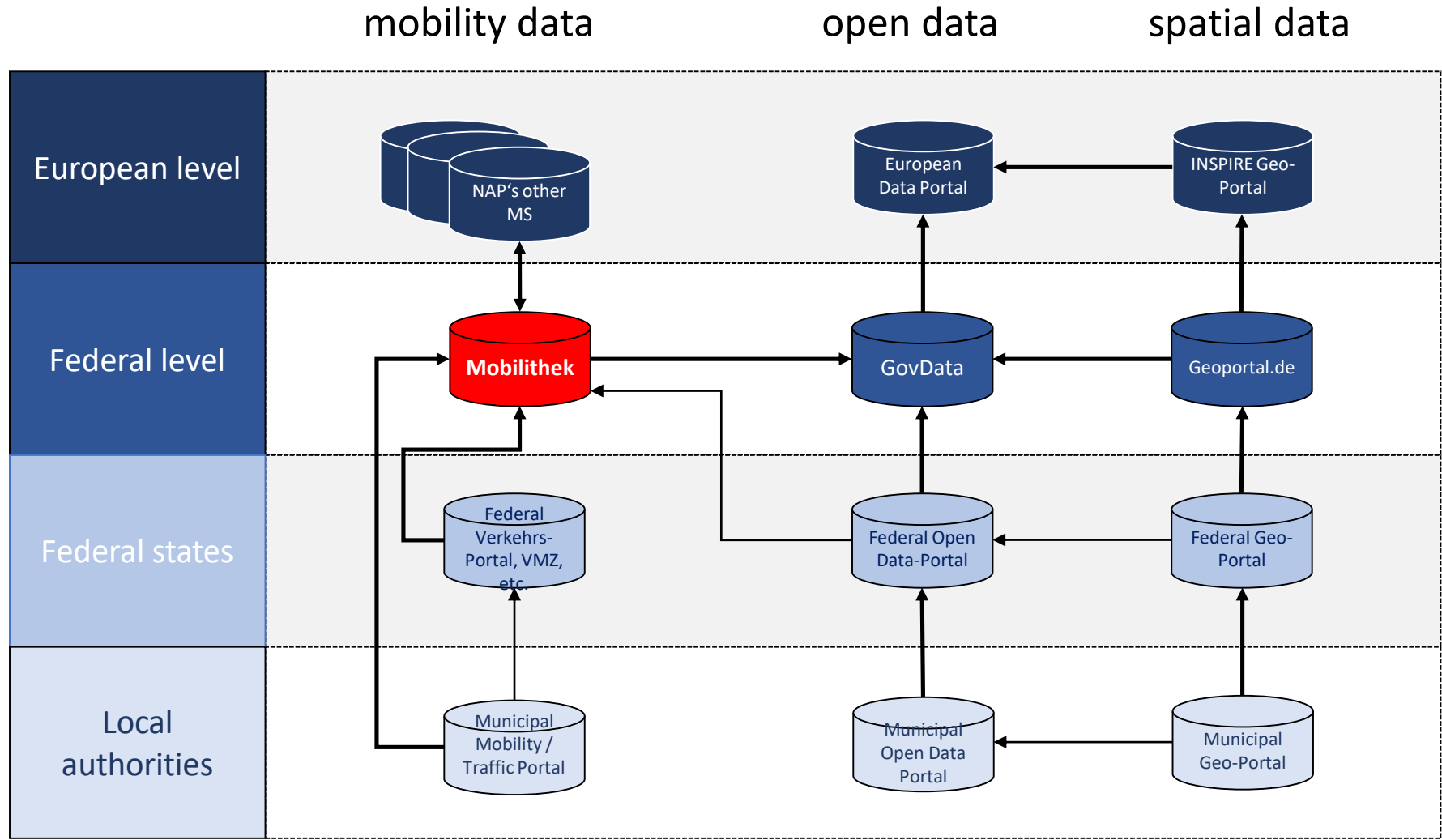
Analogue for public bodies and companies of general interest as well as research data

Mobilithek and other platforms

Current platform landscape



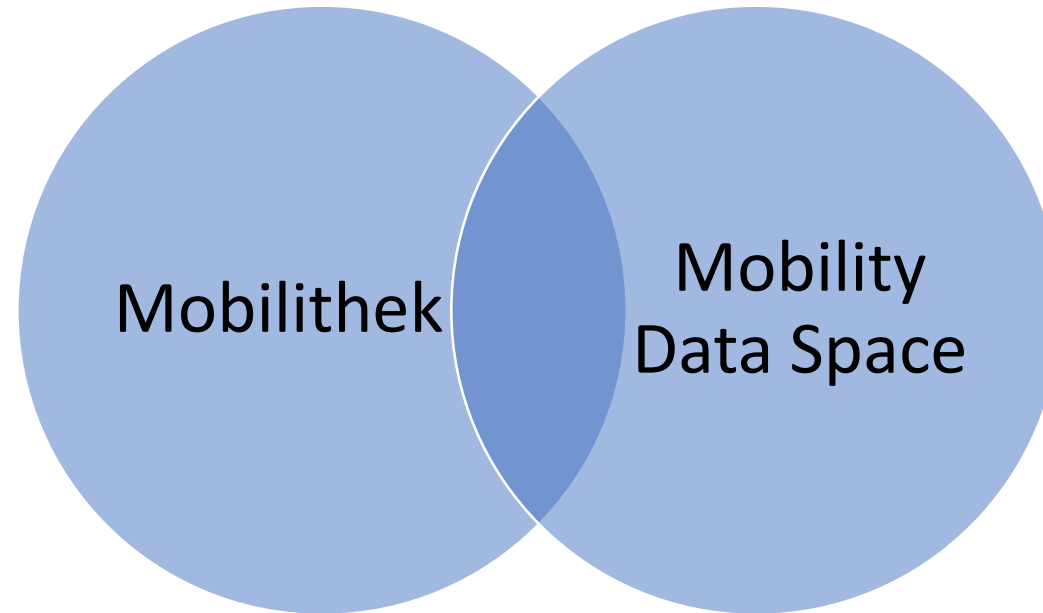
Planned platform landscape



Mobilithek / Mobility Data Space

Public offer:

- del. Regulations
- PBefG
- Static and dynamic mobility data
- Open Data
- IDS* technology for more sensitive information (to a limited extent, since it is offered free of charge by the state)
- ...



Private sector data sharing offer:

- Data sovereignty and equal access
- Companies and federal states as shareholders
- Data from the mobility sector (private + public)

* International Data Space

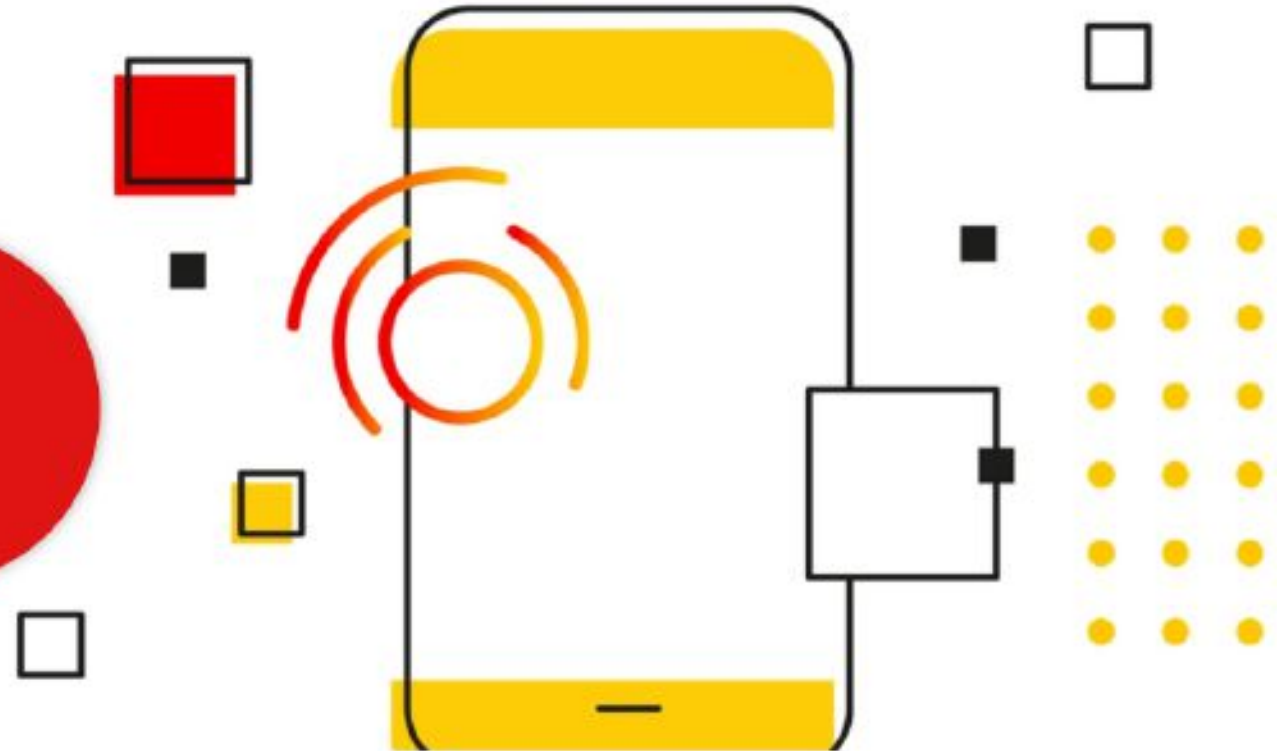
Digital Strategy of the Federal Government – 18 Lighthouse Projects

mobilithek



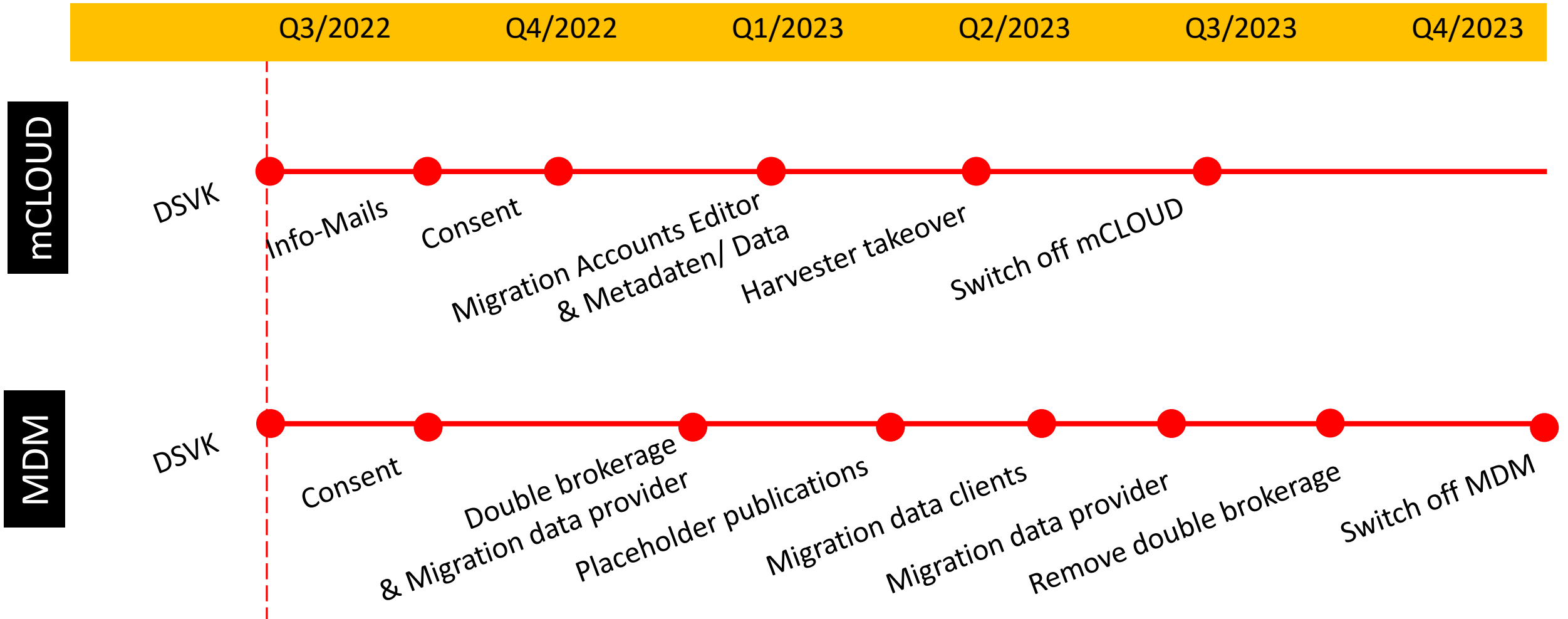
#1 Ecosystem for Mobility Data (BMDV)

By linking Mobility Data Space (MDS) and Mobilithek, the development of a future-oriented mobility data ecosystem is supported. This improves the availability of mobility data, creates the basis for digital applications and innovative business models in the mobility sector and beyond, and strengthens the development of new data-based mobility solutions.



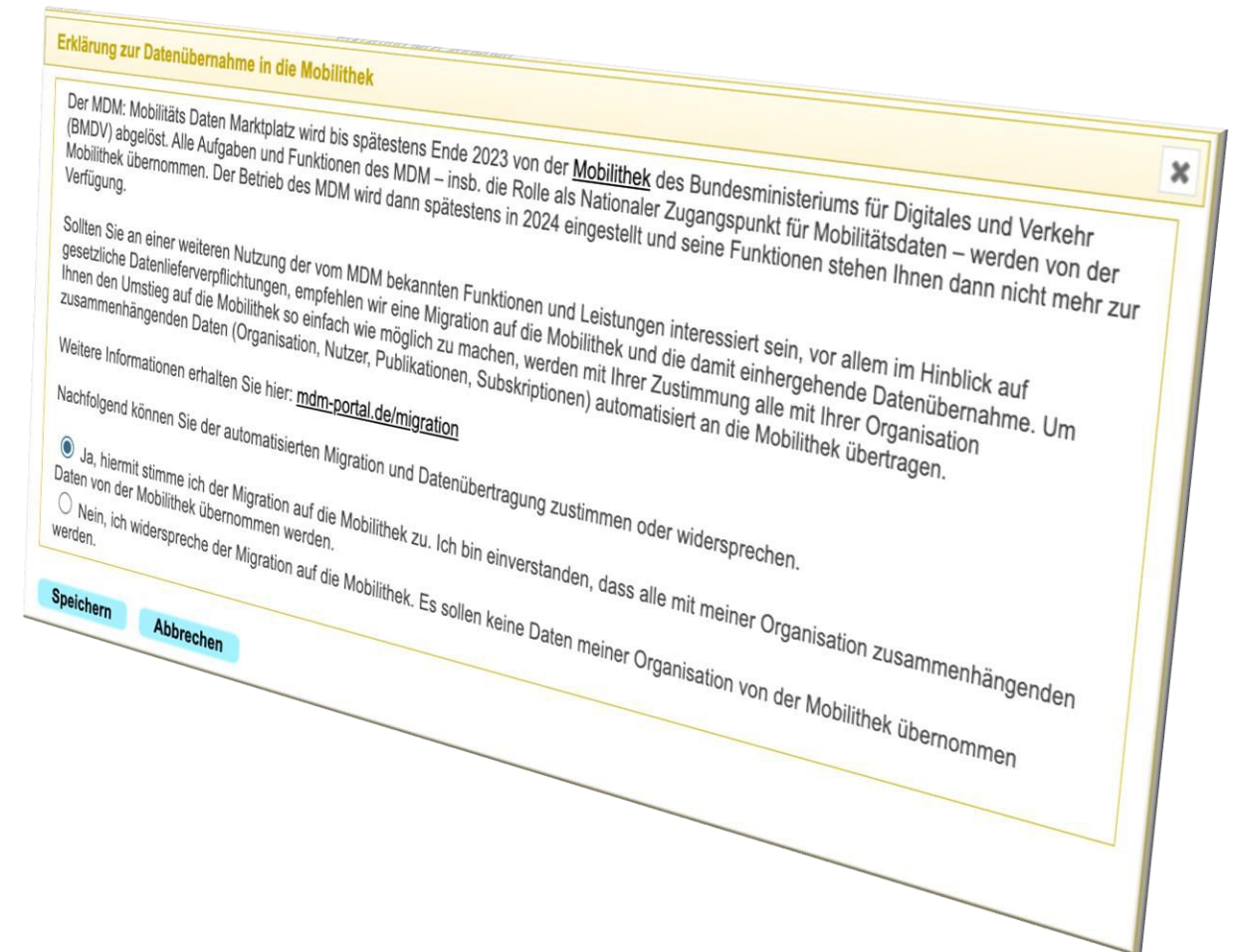
Migration from mCLOUD and MDM

Migration mCLOUD & MDM



Migration from MDM

- From July 2022: Info mails to MDM users
- July - October 2022: Feature on MDM platform for consent to migration of own data (regarding organisation, publications, subscriptions)
- From the beginning of 2023: "Double brokerage": Mobilithek offers brokered data offers of MDM users
- From April 2023: Migration of data clients
- From June 2023: Migration of the data providers; termination of "double brokerage"
- Continuously: Information, training and individual user support by MDM/Mobilithek team



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