



Mobility  
Data Space

# Data Sharing Community

## **The Mobility Data Space at a glance**

**The Mobility Data Space is a data marketplace where partners in the mobility sector can share data based on equal rights and data sovereignty to facilitate and advance innovative, environmentally sustainable and user-friendly mobility concepts.**

**It sets itself apart from existing data marketplaces through its focus on transparency, decentralized architecture, high data protection standards and data sovereignty. It also offers users unique opportunities to benefit from the added-value potential of their data.**

**Establishing the Mobility Data Space in the market aims to contribute to the German and European economic and digital sovereignty. Its technical basis is the result of close collaboration of European and national initiatives to ensure interoperability with Gaia-X projects and other European data spaces.**

**The non-profit organization DRM Datenraum Mobilität GmbH, which emerged from an acatech – National Academy of Science and Engineering project, manages its operations. The German government has provided start-up financing through the Federal Ministry for Digital and Transport.**

# Questions and answers about the Mobility Data Space

## 01 What data is shared in the Mobility Data Space?

The Mobility Data Space offers an ecosystem to trade all types of data that foster the development of new, innovative products and services in the mobility sector – based on the highest standards of data protection and European data security.

## 02 Who can join the community?

The Mobility Data Space is a data sharing community open to all organizations working on mobility solutions, no matter where they serve – road-, rail-, water- or air-based. From major vehicle manufacturers to rideshare services, from public transport operators to navigation software companies, from research institutes to bikeshare providers.

## 03 Why is a Mobility Data Space needed?

High-quality data is the key resource of our time. In the mobility sector, data is an essential prerequisite for innovation such as autonomous driving, smart traffic management systems as well as user-friendly and sustainable solutions in transport and logistics.

The Mobility Data Space provides all members with equal and transparent access to data and aims to spark competition for the best ideas and concepts.

## 04 What advantages does the data sharing community of the Mobility Data Space offer its users?

### 04.1 Transparency and data sovereignty:

- All users have access to the Mobility Data Space under the same terms and conditions. Providers and purchasers of data are free to negotiate the specific terms and conditions of their transaction agreement.
- Data is transmitted directly between the contractual parties (peer-to-peer). There is no central data storage, and the data provider always knows who is using their data.
- As of now there is no other comparable mobility platform available to organizations who do not want to go through an intermediary when exchanging data. Without the MDS they have to enter time-consuming and cost-intensive individual contracts.
- Data providers can decide who can use their data. They are also free to deny certain entities the usage of their data. Pricing is completely self-determined by the providers.
- No lock-in: The technical architecture of the Data Space – the IDS RAM (International Data Spaces Reference Model Architecture) – is ought to be interoperable with other Gaia-X data spaces.

### 04.2 One-Stop-Shop for a wide range of data:

- The Mobility Data Space covers all kinds of mobility-related data, including e.g. maps, weather and infrastructure data.
- The data offered in the National Access Point for mobility data, operated as a mobility data marketplace by the German Federal Highway Research Institute, is also going to be made available in the Mobility Data Space. This includes data that public companies and authorities must share under the European guidelines on smart transport systems and open data, such as information on hazards, roadwork and available truck parking space along motorways and highways.

### 04.3 Easy to use:

- The Mobility Data Space offers its users easy access and follows transparent rules.
- For the most basic types of data sharing, an easy-to-configure connector is available.

#### 04.4 Data protection and security:

- In accordance with the principle of “Security by Design”, the Mobility Data Space has been designed in a decentralized manner, and data is held by its users. Only the data catalogue itself is stored centrally.
- Mobility Data Space complies with antitrust legislation and the European General Data Protection Regulation (GDPR) as well as the European directives and conceptual thinking on the Data Governance Act (DGA), Digital Service Act (DSA) and Digital Markets Act (DMA).
- To ensure complete compliance with data protection requirements, the German Federal Commissioner for Data Protection and Freedom of Information (BfDI) has been consulted.

#### 04.5 Creation of value:

- Use of the data space is free of charge until 2024. Data providers receive all the revenue from trading their data. From 2024 onwards, users will be charged a comparatively low fee. This money will be spent on continuous further development as well as to cover operating expenses. This is made possible by the running company’s non-profit status.

#### 04.6 Access to the data sharing community:

- To help stakeholders in the process of becoming aware of the potential of their data and to connect innovators, the Mobility Data Space offers its members online and offline exchange formats.
- Service partners, working closely with the Mobility Data Space and being involved to current developments in the Gaia-X environment, offer services in all kinds of fields such as Onboarding, Operation, Data & Identity Management, Development, Business Development.

## 05 Who commissioned the Mobility Data Space and who is developing it?

The Mobility Data Space originated from a decision by the German federal government. Its objective is to foster collaboration and data sharing in the mobility sector. Coordinated by acatech – National Academy of Science and Engineering, more than 200 stakeholders from the mobility sector, including research institutions, private businesses and public administration, worked on its conception.

In May 2021, the non-profit organization “DRM Datenraum Mobilität GmbH” was established to further develop the data space to ensure its technical progress. acatech serves as founding partner. Further shareholders are Caruso, Deutsche Bahn, Deutsche Post DHL, HERE, HUK-Coburg, Mercedes-Benz, BMW via BMW Intec Beteiligungs GmbH and Volkswagen via Volkswagen Group Info Services AG, as well as the states of North Rhine-Westphalia and Baden-Württemberg.

## 06 Is the Mobility Data Space interoperable with other GAIA-X data spaces?

As Gaia-X, the Mobility Data Space stands for portability, interoperability and connectivity of the infrastructure within and across sectors. This will allow cross-sector data sharing ensuring scalability at a high level in the future.

**Additional information is available at:**

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