The Mobility Data Space data marketplace

The Mobility Data Space (MDS) is a secure data marketplace where members can exchange data on their own terms in order to enable or enhance innovative mobility concepts. Rather than being held by the MDS, the data is exchanged directly between members so that they can decide for themselves who has access to it and on what terms. To ensure compatibility with other similar data spaces, the technical design of the MDS is based on national and European standards such as Gaia-X and IDSA.

The operating company Datenraum Mobilität is a limited liability company (German GmbH) without the intention of making a profit.

To make it easier for members to access the MDS and interact with each other, various service providers offer support with onboarding, operation, networking, legal compliance, etc.

As well as facilitating data exchange, the MDS gives like-minded people the chance to share ideas through its events, forum, and other networking activities.

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**Dr. Volker Wissing, German's
Federal Minister for Digital and Transport:**

„All of us - the economy, the state and every citizen - have a duty to make a 180-degree turnaround in our approach to data. We must recognize the collection and provision of data as an important contribution to the general public. Digitalization has also long been a social issue."

From the guest article by Dr. Volker Wissing in "Die Welt" from 27 May 2024
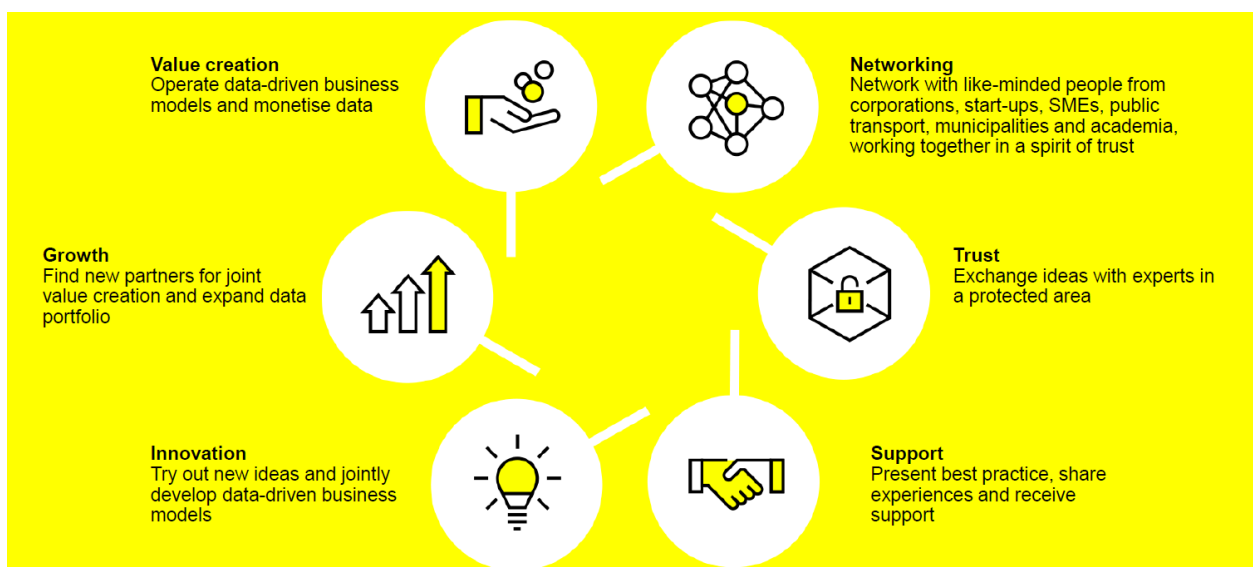
Who is the Mobility Data Space for?

The Mobility Data Space is for anyone who wants to drive innovation in the mobility sector – from start-ups to large corporations and from research institutions to public authorities and government. This includes:

- Vehicle manufacturers and their suppliers
- App developers, vehicle electronics and navigation system suppliers
- Mobility service providers (public transport, rail, shipping, bike and car sharing providers, etc.)
- Logistics service providers, parcel services, etc.
- Local, regional, and central government
- Public utilities and road maintenance services
- Infrastructure companies
- Traffic and urban planners
- Insurance companies
- Meteorological and hazard warning services
- Researchers and scientists
- Fleet and car park operators
- ...

# What are the benefits of the Mobility Data Space?

The different members have access to a wealth of data which, either in joint projects or in the hands of others, has the potential to enable new concepts for tomorrow's mobility. Data providers can monetise their data, while data users and service providers can develop new digital business models that improve mobility for everyone.

Value creation
Operate data-driven business models and monetise data

Networking
Network with like-minded people from corporations, start-ups, SMEs, public transport, municipalities and academia, working together in a spirit of trust

Growth
Find new partners for joint value creation and expand data portfolio

Trust
Exchange ideas with experts in a protected area

Innovation
Try out new ideas and jointly develop data-driven business models

Support
Present best practice, share experiences and receive support

The Mobility Data Space vision

The vision of the MDS is seamless, sustainable, and accessible transport and traffic in both urban and rural areas. We want to make commuting, longer journeys, visits to friends and family, shopping trips and goods and parcel delivery

- easier,
- safer,
- faster,
- more reliable,
- more affordable,
- accessible and non-discriminatory,
- and environmentally and climate-friendlier.
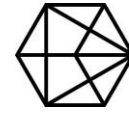
What does the Mobility Data Space offer its members?

1. Data sharing community

The data sharing community is the beating heart that drives the MDS. The MDS organises networking events where members can develop new business models and paves the way for new mobility solutions by engaging in active matchmaking. Working groups offer members the opportunity to network with experts and businesses from different parts of the mobility sector, benefit from best practice sharing and develop innovative solutions together.
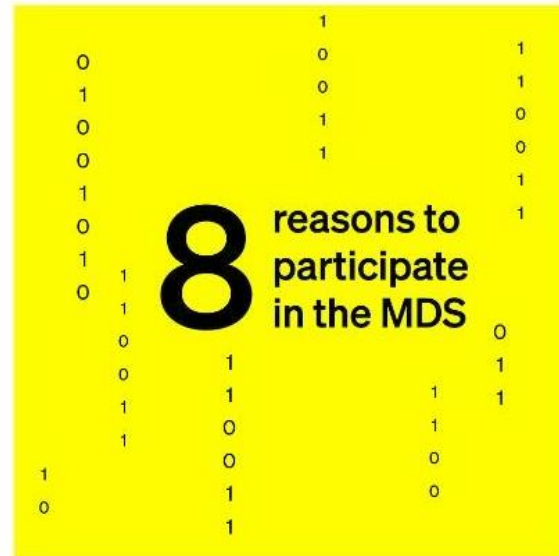
2. Technical platform

The MDS is easy to use for registered members, as the MDS portal bundles all the important components in one place, for example user administration, connector and data management and a news area.

The MDS uses the EDC Connector to enable secure and reliable data access. The Connector acts as an intermediary between data providers and recipients. Moreover, the MDS follows international technical standards that guarantee interoperability with data spaces in other sectors and countries.

3. Federal government funding

Federal Ministry for Digital and Transport funding ensures that the MDS is an impartial data exchange platform. The federal government funding also creates numerous synergies with other government initiatives such as MISSION KI and the Plattform Lernende Systeme initiative. These partnerships offer MDS members the chance to benefit from a wide range of resources and expertise.

4. Diverse partners

The MDS operating company partners are a diverse group of twelve companies and organisations including leading automotive and insurance companies, service providers, public transport operators and federal states. This creates a dynamic environment that fosters innovation and allows MDS members to benefit from cross-sectoral know-how.

5. Diverse members

The MDS members come from a wide range of industries and include OEMs, mobility service providers, local authorities, insurers, and start-ups. This diversity ensures access to a wealth of different datasets.

6. Additional sales channel

Data providers can set the data exchange up as an additional sales channel, allowing them to actively utilise and monetise their data. The data sharing community lets companies and organisations make their data available to a larger network, opening up new markets.

7. First-class contacts

As well as having the opportunity to find suitable data products, organisations seeking data also get direct access to the relevant process contacts. This direct contact enables efficient communication and creates space for knowledge sharing and competency-based collaboration. This helps members to achieve their goals and progress their projects more rapidly.

8. Pioneering data space

The MDS is one of the first data space operators and enables innovative solutions for tomorrow's mobility. By participating in the MDS you will be helping to create a dynamic and innovative platform as well as gaining insights into the latest trends and having the chance to improve your product – all while retaining full control over your data and contracts.

The MDS is also a pioneer in the area of removing barriers to data trading and provides tools such as a sample contract for data trading. This model contract can be requested from the MDS' community team.
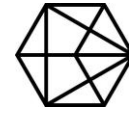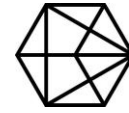
The Mobility Data Space values

Since the use of data to develop tomorrow's mobility involves a number of challenges, the MDS is committed to observing the following principles:

- Data sovereignty, data protection and maximum data security
- Equal rights for large and small members
- Promotion of innovation and competition
- Sustainability (in both the "environmental" and the "durability" sense)
- Improving traffic safety
- Promotion of accessibility

Who is behind the Mobility Data Space?

The Mobility Data Space's operator – DRM Datenraum Mobilität GmbH – is a company without the intention of making a profit. It grew out of a project initiated by acatech – National Academy of Science and Engineering and is funded by the Federal Ministry for Digital and Transport. The company's partners are the acatech Foundation, BMW INTEC Beteiligungs GmbH, Caruso GmbH, Deutsche Bahn AG, DHL Group, HERE Europe B.V., HUK-COBURG Haftpflicht-Unterstützungs-Kasse kraftfahrender Beamter Deutschlands a.G. in Coburg, Mercedes-Benz AG, VDV eTicket Verwaltungsgesellschaft mbH, Volkswagen Group Info Services AG and the states of Bavaria, North Rhine-Westphalia, and Baden-Württemberg.

Who are the senior executives of the Mobility Data Space?

The Managing Directors of DRM Datenraum Mobilität GmbH are Manfred Rauhmeier, Marc Augusto, and Moritz Stober. The Chair of the MDS Supervisory Board is acatech Senate member Karl-Heinz Streibich.

Manfred Rauhmeier, founding Managing Director of Datenraum Mobilität GmbH

When the operating company DRM Datenraum Mobilität GmbH was founded, Manfred Rauhmeier took on the role of DRM Managing Director. He is also Managing Director of the acatech Förderverein and member of the board of the acatech Stiftung.

Manfred Rauhmeier:

"The Mobility Data Space was established to allow equal partners in the mobility sector to exchange data on their own terms. It is a central element of the German government's data strategy."

Image: acatech / D. Ausserhofer

Marc Augusto, Managing Director of Datenraum Mobilität GmbH

Managing Director Marc Augusto is responsible for Technology, Services and Governance. After studying computer science, he worked on digitalisation and automation in container ports. He also contributed to advances in the field of autonomous driving before joining the MDS.

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Marc Augusto:

"In Germany alone, there is tremendous potential to use domain-specific data to develop innovative solutions and improve the efficiency of existing processes. We want to enable people to leverage this data and put it to good use."

Moritz Stober, Managing Director of Datenraum Mobilität GmbH

Managing Director Moritz Stober heads up the Market, Community and Marketing sides. Previously the graduate economist was Director Business Development and head of Community Management at MDS. Before that, he worked on the development of data spaces at acatech.

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Moritz Stober:

"The huge potential of the data economy can't be unlocked solely by creating the necessary technology. We also need to get data providers and users excited about these new opportunities."

Selected business cases
For more examples, <u>visit our website</u>

Initiative for safe roads and the City of Hamburg:
PrioBike-HH: Enhancing Cyclist Safety

In collaboration with the Initiative for Safe Roads GmbH and the City of Hamburg, an innovative system for improving traffic safety was tested at a critical intersection in Hamburg's HafenCity (Am Sandtorkai / Großer Grasbrook).
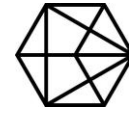
The objective:
The use of digital technology and optical signals prevents car and lorry turning accidents and significantly improves cyclist safety.

Partners involved
• Initiative for safe roads
• The City of Hamburg

Solita:

Intelligent Urban Ecosystem for Human centric city living

Solita integrates live data on car parks in Heidelberg into its "Intelligent Urban Ecosystem" solution. The data comes from MobiDataBW, which is operated by the Ministry of Transport of Baden-Württemberg and brings together municipal data offerings.

The dashboard provides local authorities with a graphical solution to obtain a real-time overview of information on population density, traffic, air quality and parking facilities and to take the necessary measures.

Partners involved
• MobiDataBW
• Solita

Esri:

Connecting data for more road safety

Esri is evolving the classic digital twin into a living digital twin by integrating dynamic sensor data. Dynamic data from car manufacturers enable continuous adaptation to the current traffic situation. The Living Digital Twin can be used in a wide range of applications, including traffic planning, police and rescue operations, and logistics and transport companies.

The objective:
Optimised traffic control and resource planning

Partners involved
• OEM
• Esri

Insurance company:
Pay as you drive

In this working group, OEMs and insurance companies are working on cases, where driving behaviour data from the vehicle will be provided to insurers for risk assessment in order to create personalised insurance policies.

The objective:
Tailor-made and customer-friendly insurance products that will be based on actual driving behaviour.

Partners involved
• OEMs
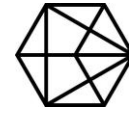• Insurance companies

Telematics Service Providers (TSP):
Standardisation of fleet data

Digital fleet management tools face the challenge that fleet data is provided in different forms depending on the vehicle brand. The working group of OEMs and TSPs is working to standardise the data points provided (e.g. charge level, location, vehicle condition), data formats and data quality.

Standardisation will help reduce integration efforts and enable the development of new fleet solutions.

Partners involved
• OEMs
• Telematics Service Providers
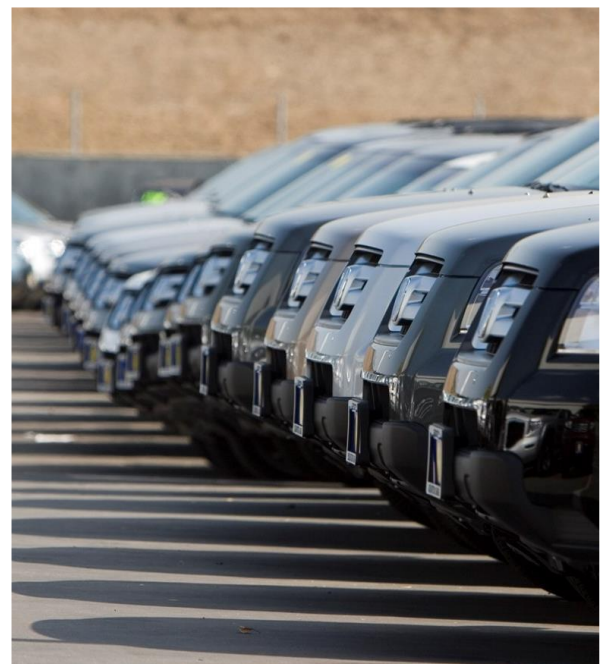
Contact Mobility Data Space

DRM Datenraum Mobilität GmbH
c/o acatech – Deutsche Akademie der Technikwissenschaften e.V.

Catrin Schlatmann

Karolinenplatz 4
80333 München
Germany

Phone: +49 89 520309-886
Cell phone: +49 151 52816662

Catrin.Schlatmann@mobility-dataspace.eu
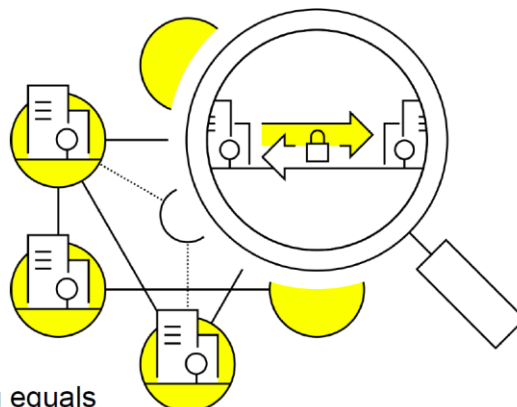www.mobility-dataspace.eu

PR agency

Press'n'Relations II GmbH

Ralf Dunker

Gräfstr. 66
81241 München
Germany

Phone: +49 89 5404 722-11
Fax: +49 89 5404 722-29

du@press-n-relations.de
www.press-n-relations.com