Mobility Data Space

Standard press kit for the Mobility Data Space (Datenraum Mobilität GmbH), September 2024

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. Members can use the MDS free of charge until the end of 2024. User fees will be charged from 1 January 2025.

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

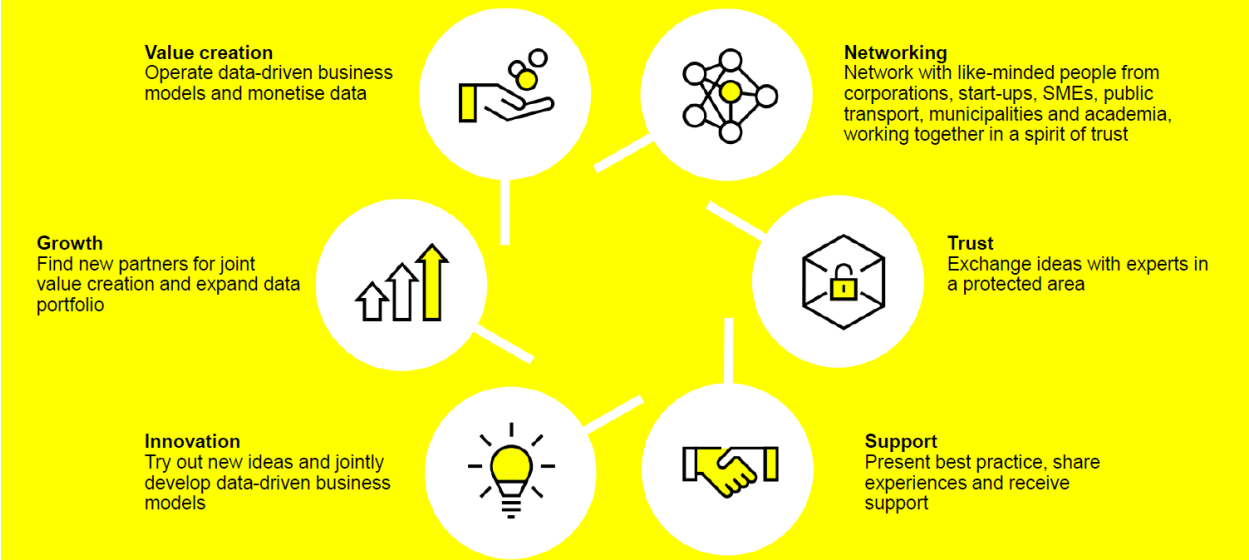
Who is the Mobility Data Space for?

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.



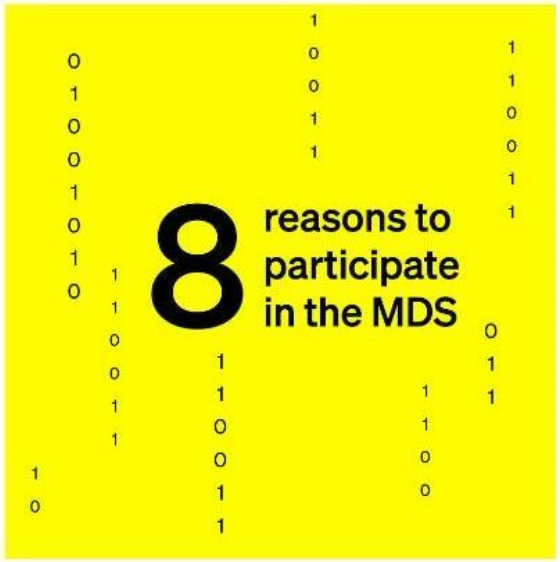
The Mobility Data Space vision

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.

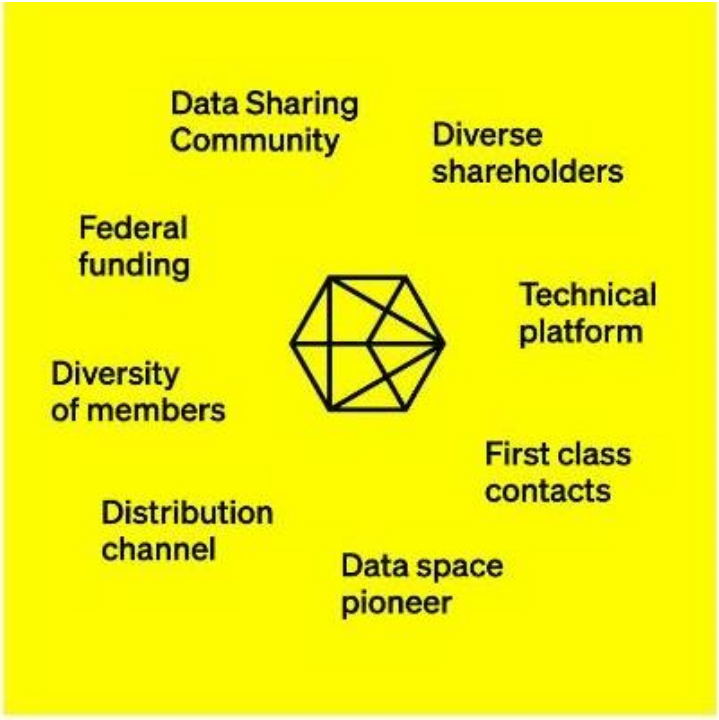
7. First-class contacts

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, Deutsche Post AG, 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 founding Managing Director of DRM Datenraum Mobilität GmbH is Manfred Rauhmeier; its other Managing Director is Michael Schäfer. 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, acatech Managing Director Manfred Rauhmeier took on the role of DRM Managing Director. Rauhmeier is also Managing Director and Member of the Management Board of the acatech Förderverein, member of the Board of Trustees of the acatech Foundation and member of the Advisory Board of the Bavarian Center for Transatlantic Relations.

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

Michael Schäfer, Managing Director Technology, Datenraum Mobilität GmbH

Michael Schäfer has a degree in electrical engineering and over 25 years' IT industry experience in the fields of industrial automation, image processing, Internet of Things and Industrie 4.0. His most recent roles were as Senior Director Global Competency Center for Business & IT Transformation and Head of IIoT Application Factory at Software AG in Darmstadt.

Michael Schäfer:

"Smarter traffic management, better connections between different modes of transport and faster, more comfortable, and user-friendlier alternatives to private transport are key to delivering clean, efficient passenger and freight transport. This will provide an enhanced experience for commuters and long-distance travellers and make towns and cities more attractive places to live."

Selected business cases

For more examples, visit our website

Mobias:

Danger spots in traffic

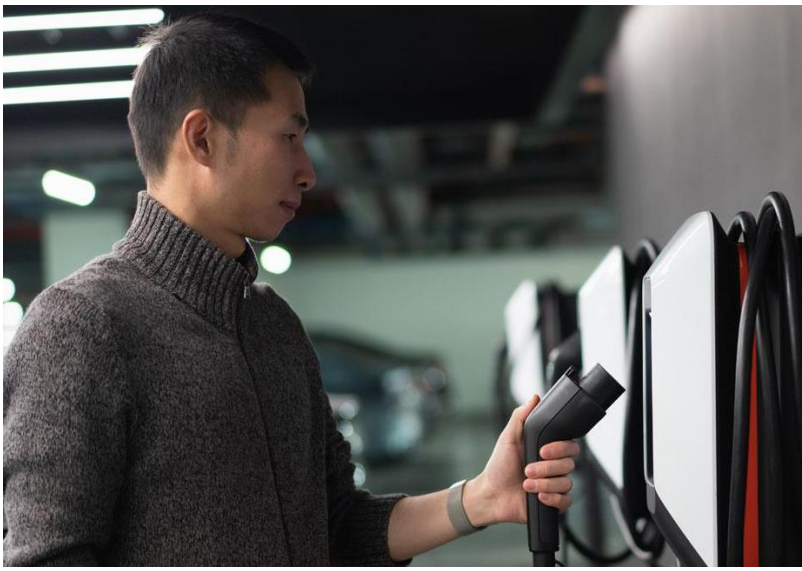
AI-driven road hazard predictions - Swarmnect leverage vehicle data, historical accident records, and environmental information for safer roads.

They enhance road safety with OEM vehicle data, historical accident info, and environmental data. This allows to predict hazards, alert drivers through software defined vehicle applications, and provide insights for government preemptive precautions.

DeepVolt:

DeepVolt Location Intelligence Assistant

DeepVolt Location Intelligence Assistant (DLIA) is a cutting-edge AI-powered solution that revolutionizes the placement of electric vehicle (EV) charging stations. By leveraging comprehensive data analytics, DLIA empowers cities and businesses to strategically position charging infrastructure for maximum impact.



With customizable insights and evaluations, DLIA addresses the critical challenge of optimizing EV charging investments by considering various factors such as socio-demographics, traffic patterns, city infrastructure, and points of interest.

Insurance companies:

Pay as you drive

The use of data from connected vehicles enables insurance companies to offer their customers better rates. By collecting and measuring various data (e.g. kilometers driven, braking and acceleration behaviour, speed etc.), drivers can secure lower rates if they have no accidents or claims, but also if they drive well and safely.

This incentive for the insured also leads to less risky driving behaviour and supports foresighted driving, which in total ensures greater safety on the road and can contribute to environmentally friendly driving. The working group (OEMs and insurers) develops scalable standard processes for the use cases PAYD, PWYD, PHYD and FNOL as well as solutions for a transparent and simple consent process.

Esri:

Connecting data for more road safety

Esri develops the classic “Digital Twin” into a "Living Digital Twin" by integrating sensor data from car manufacturers. This data, which is made available via the MDS, enables precise adaptation to the constantly changing traffic situation. The Living Digital Twin acts as a virtual image of the real traffic environment and provides information on traffic density, road conditions, weather conditions and other relevant factors.

By analysing this data, traffic planners can make informed decisions to optimise traffic flows, identify bottlenecks, and minimise the risk of accidents. In this way, the Living Digital Twin can make a valuable contribution to improving police and rescue operations or more efficient route planning.

Bridgestone Mobility Solutions:

Advanced Data Solutions: Vehicle data and Road Conditions

Bridgestone Mobility Solutions is focused on developing and delivering data-driven mobility solutions that help move the world towards a more sustainable future. In particular, Vehicle Data is vital for modern transportation systems, enhancing traffic management, reducing congestion, improving road safety, and supporting future mobility and urban planning applications.

This invaluable data source offers deep insights into vehicle performance, driving behavior, traffic dynamics, CO_2 emissions, EV insights, and road and weather conditions. The Vehicle Data portfolio includes several products: Floating Car Data, Origin Destination Data, Hazardous Driving Events, Standstill Data, Vehicle Profiles and EV Charging Events.

Additionally, the Bridgestone Road Conditions portfolio works to transform the way cities, municipalities, road agencies, map providers perceive and manage road networks.

The Road Damage Detection product identifies road issues like potholes, cracks, manholes, and patches.

Road Asset Visualization analyses connected vehicle data and video streams from cameras, offering insights on road signs, traffic lights, anomalies, pavement conditions, lane markings, and more.

Road Roughness Monitoring calculates the International Roughness Index (IRI), delivering updates and enabling comprehensive tracking of road conditions over time.

Mobility Data Space

Printable image files for the MDS can be found here in the media data space
(image source, unless otherwise stated: DRM Datenraum Mobilität GmbH)

For more information about the MDS, visit https://mobility-dataspace.eu

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