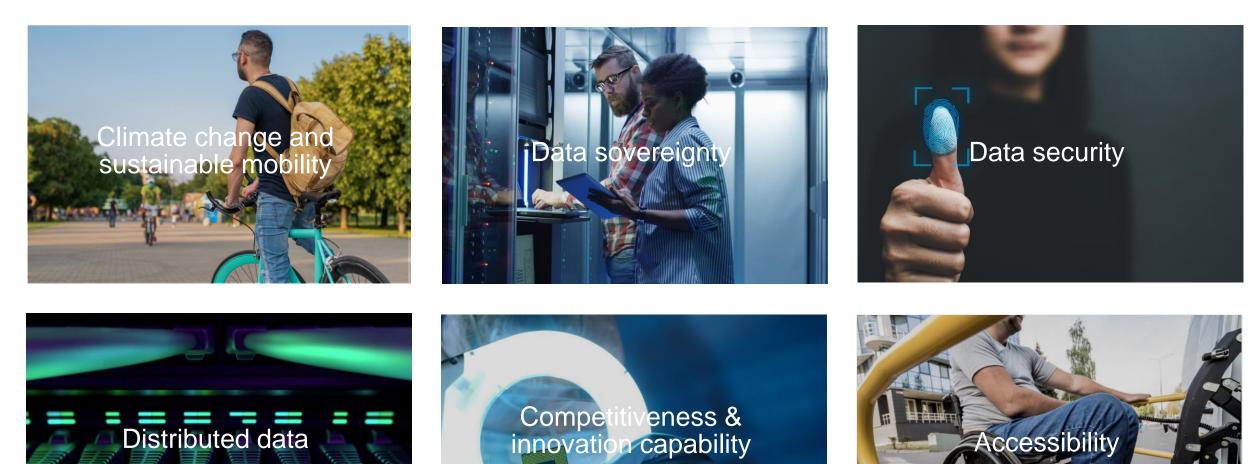


Mobility Data Space: Data Sharing Community

01 Challenges

01 Challenges





02 Vision

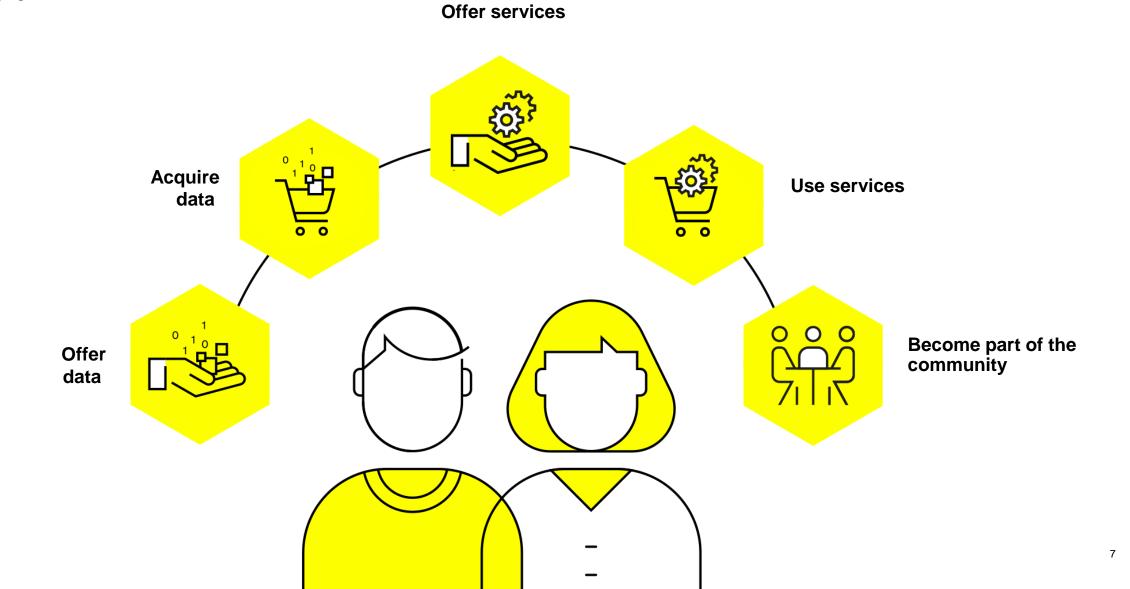


MDS is an independent marketplace for mobility data that is open to everyone. The data platform enables the mobility of tomorrow by providing a secure environment for sovereign data exchange. This results in innovative products, services and business models that benefit us all.

03 Data Sharing Community

Data Sharing Community: trustworthy ecosystem for mobility pioneers





Marketplace for services: wide range and tailor-made services



→ Decentralisation:

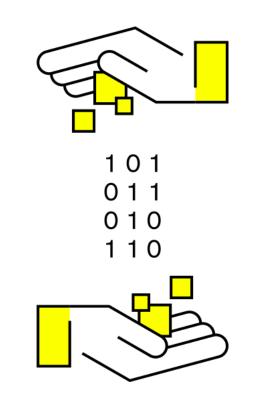
data is not stored centrally, but shared directly among members

→ Freedom of contract:

contractual partners negotiate conditions directly and autonomously among themselves

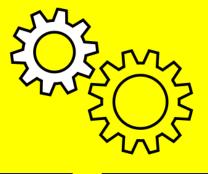
\rightarrow Value creation:

From 1 January 2025, MDS will levy user fees to co-finance the Data Sharing Community and MDS services. The MDS will remain a non-profit organisation



Marketplace for services: wide range and tailor-made services

- Support in the selection of service providers: uncomplicated networking with service providers
- → Uncomplicated onboarding: service providers offer specialised services geared towards data rooms
- → Wide range of services: onboarding, operations, data & identity management, development, business development





Advice and Know-how

Mobility Data Space connects members with specialised service providers from key data management disciplines.

Onboarding



Advantages of participating in the Data Sharing Community at a glance

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

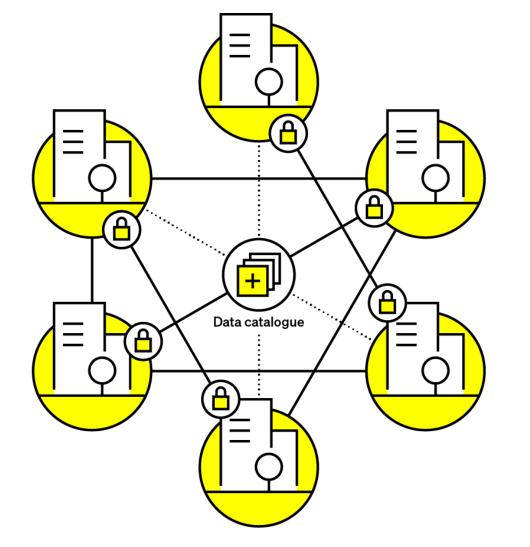
Present best practice, share experiences and receive support

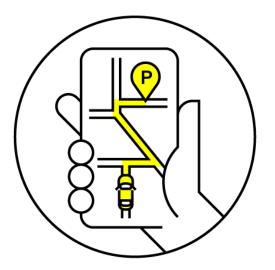
04 Mode of operation

Data transmission in Mobility Data Space: the basis for innovative products, services and business models

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Data transmission in Mobility Data Space

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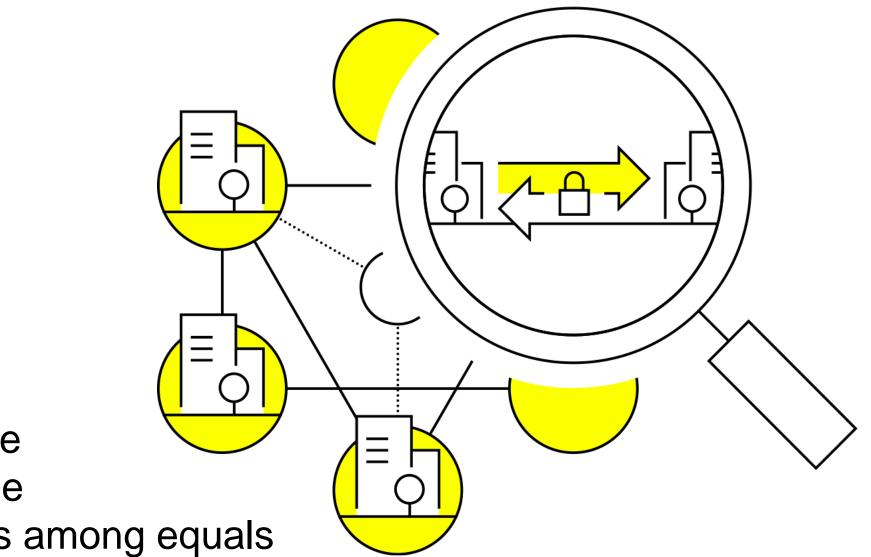
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Data transmission in Mobility Data Space

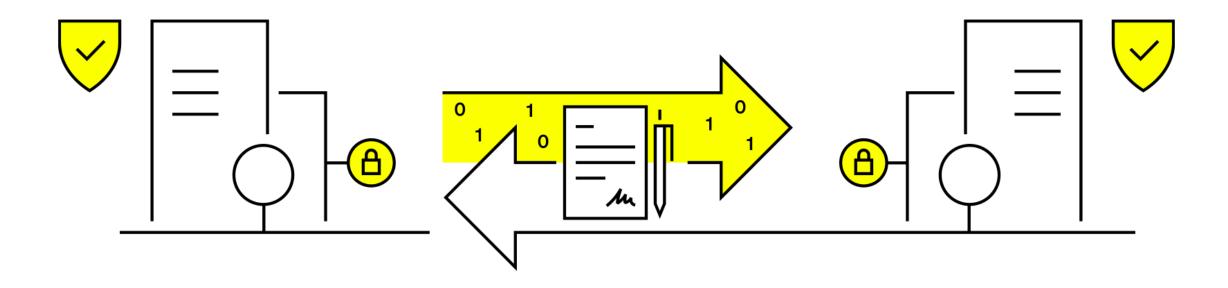




The secure space for data exchange between partners among equals

Step 1: negotiating the conditions between the contracting parties

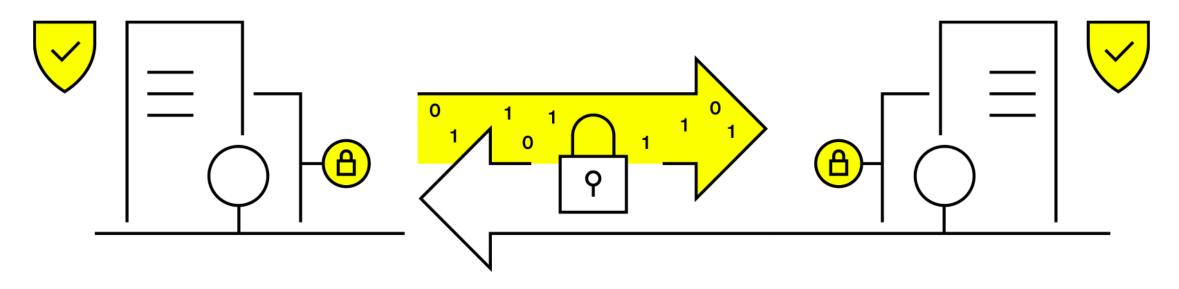




Step 2: peer-to-peer data transfer via trusted IT architecture

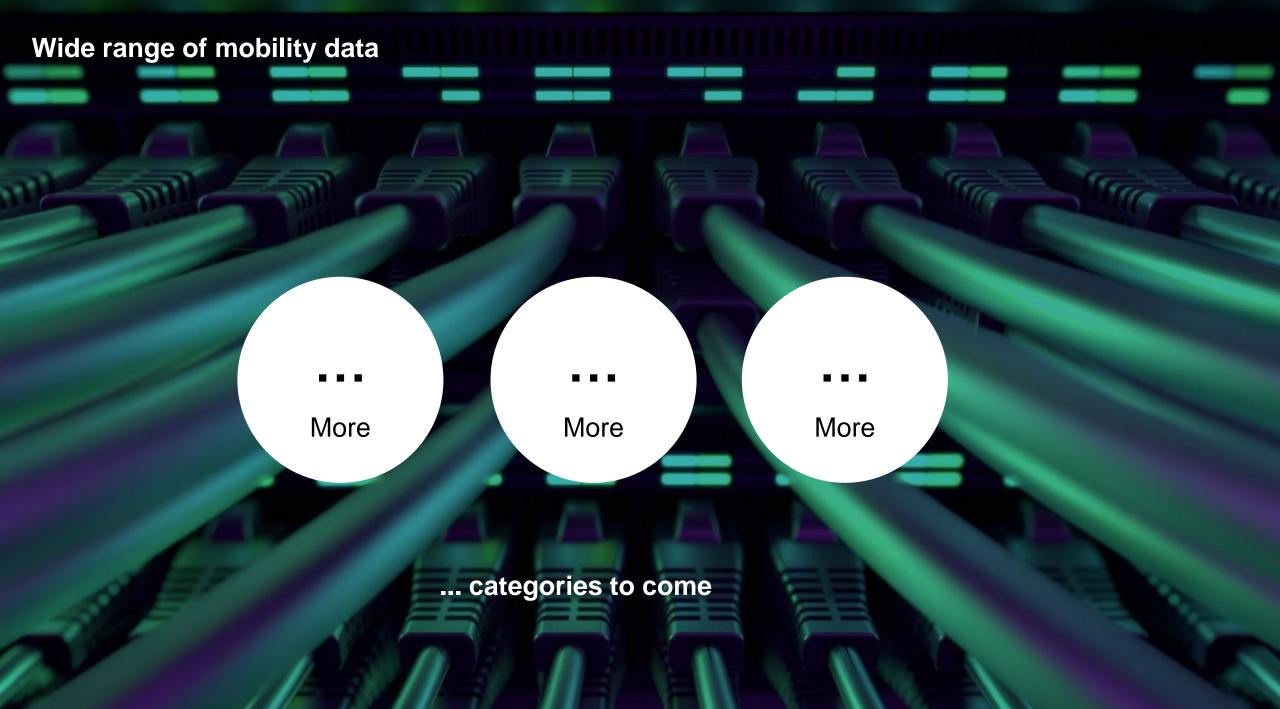


Data transmission via connectors



05 Data

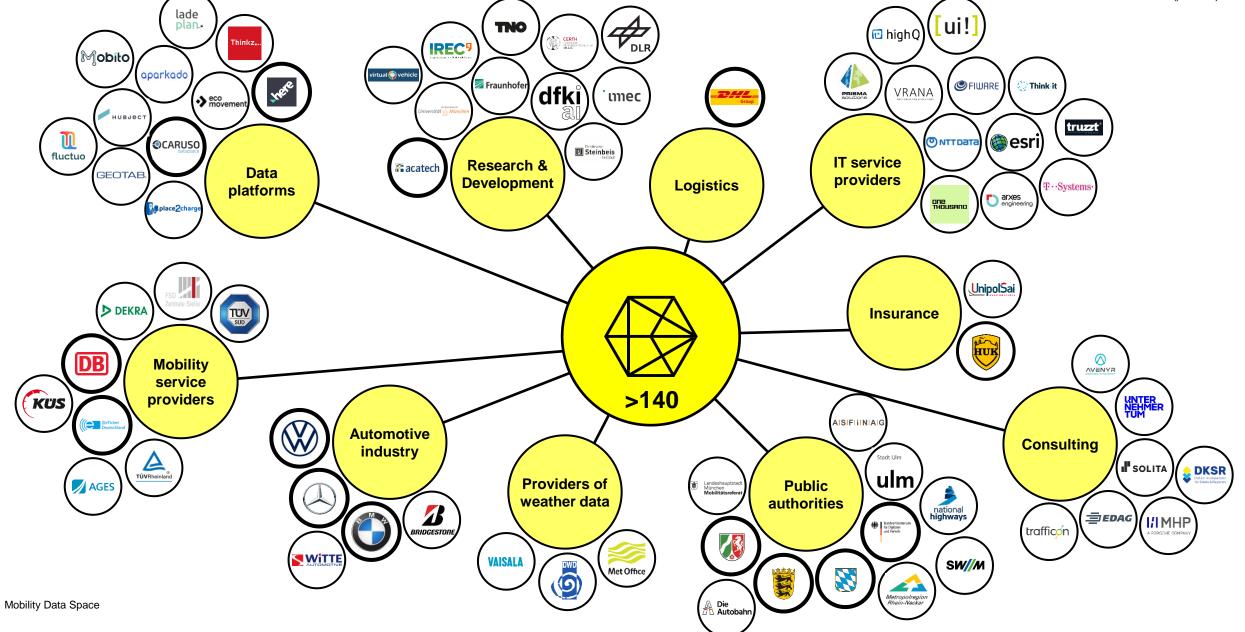




06 Members

02 MDS-Community (extract)



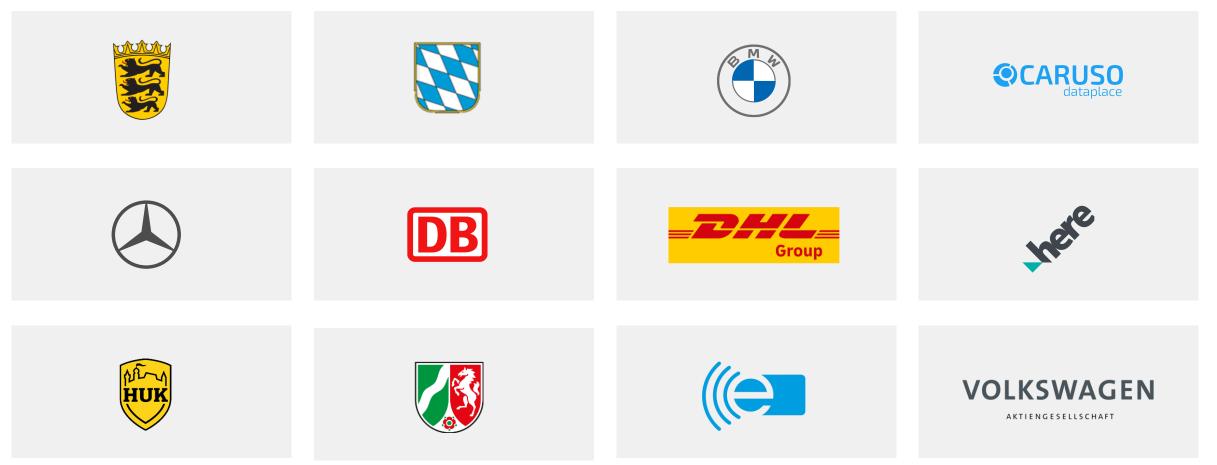


Shareholders of MDS



More than 200 stakeholders from science, industry and public administration worked on the conception of the MDS. For long-term operation, the acatech Foundation has transferred the project to the DRM Datenraum Mobilität GmbH as a supporting company (non-profit GmbH). The MDS is funded by the Federal Ministry for Digital and Transport.

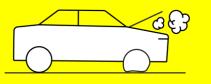
Shareholders of DRM GmbH are:





07 Data Offerings

BMW Data Offerings



Car breakdowns

Event is generated from the relevant vehicle signals in a completely anonymised form.

Heavy rainfall events

Slippery

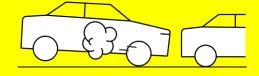
Road



Event is generated completely anonymously from the relevant vehicle signals (e.g. wiper speed).



Based on the respective vehicle signals (e.g. fog lights), the event is generated completely anonymously.



Emergency braking

Data, e.g. Dynamic Stabilization Control (DSC), is generated completely anonymously.



Data, e.g. Dynamic Stabilization Control (DSC), is also generated completely anonymously.



Accident

Fog

Events such as the triggering of an emergency call are generated anonymously from the vehicle signals.

Mercedes-Benz Data Offerings



Display of aggregated warnings about local hazards from the Mercedes-Benz fleet to increase safety and optimise navigation services.

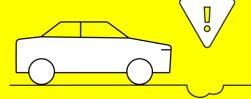
Parking Monitoring



Anonymised real-time parking behaviour data from the Mercedes-Benz fleet to improve your own applications.

Road **Safety Hotspots**

With the world's safest cars on the world's safest roads - using the power of data to identify safety-critical hotspots.



Surface Events

Hazard

Detection of potholes and other surface events on the road network for efficient repair allocation and budget planning.

Micro Weather

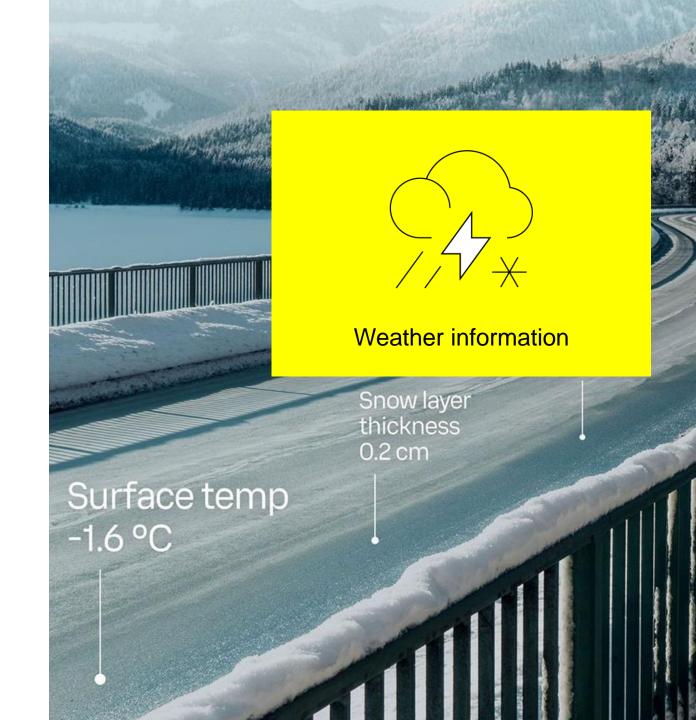


The Mercedes-Benz vehicle as a "mobile weather station": current weather data at GPS level, collected anonymously in the Mercedes-Benz vehicle fleet.

Vaisala Xweather Data Offerings

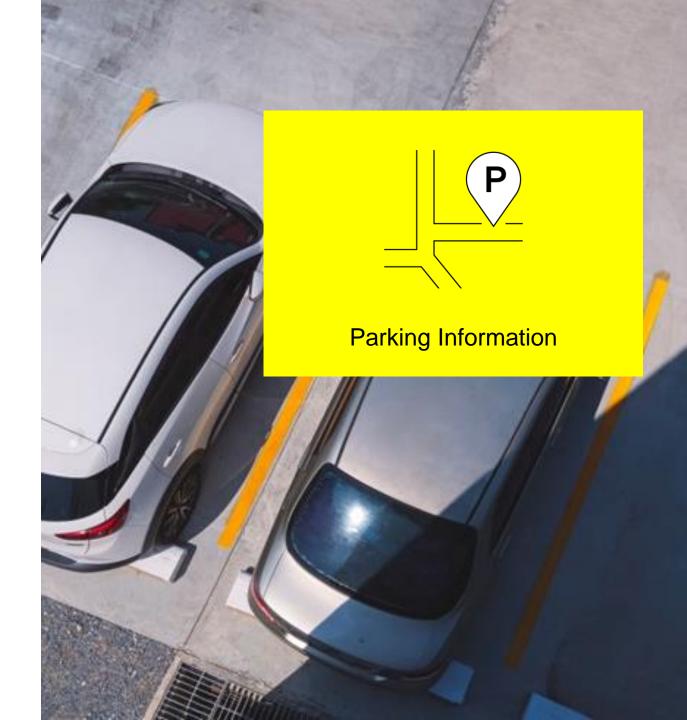
"Weather Conditions" provides interpolated global current, forecast and historical weather conditions, and a minute-byminute precipitation forecast for up to 60 minutes.

The data is generated for the requested location and time using a proprietary blend of data including weather station observations, radar and satellite information, global and regional models, and other proprietary sources.



DB Parking Information

Information on "DB BahnPark" car parks in Germany. This dataset allows you to search for parking facilities, e.g. car parks and multi-storey car parks, especially near railway stations, and to obtain more detailed information about them.



Bridgestone Data Offerings

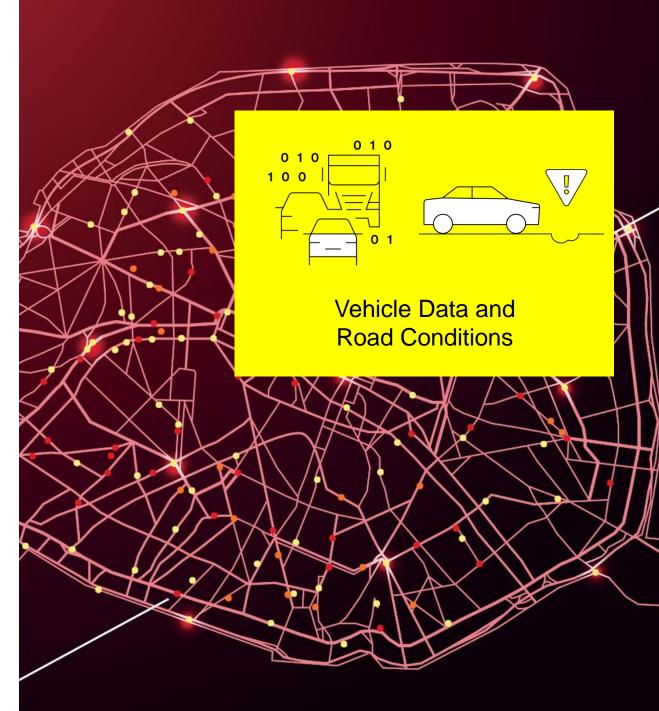
Vehicle Data Portfolio

This data source provides deep insights into vehicle performance, driving behaviour, traffic dynamics, CO2 emissions, electric vehicle insights, and road and weather conditions. The portfolio consists of the following products:

- Floating Car Data
- Origin Destination Data
- Hazardous Driving Events
- Standstill Data
- Vehicle Profiles
- EV Charging Events

Road Conditions Portfolio

- Road Damage Detection: Identification of road damage such as potholes, cracks, manhole covers and patches
- Road Asset Visualization: Analysis of road data from connected vehicles and camera streams, including information on traffic signs, traffic lights, road markings, and road conditions
- Road Roughness Monitoring: Calculation of the International Roughness Index (IRI) for real-time and long-term monitoring of road conditions





08 Use Cases





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

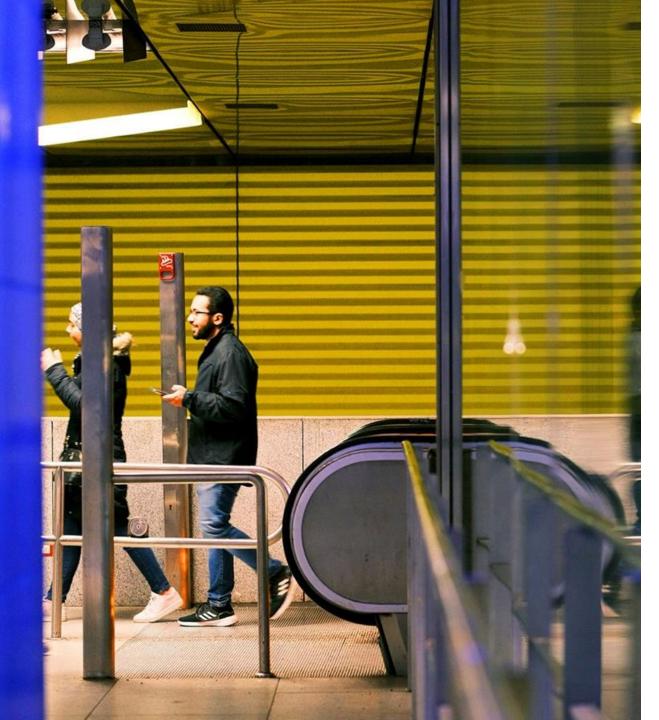
Description

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).

Objective

The use of digital technology and optical signals prevents car and lorry turning accidents and significantly improves cyclist safety.

- Initiative for safe roads
- The City of Hamburg



Mobility Data Space Data Sharing Community

Solita Intelligent Urban Ecosystem for Human centric city living

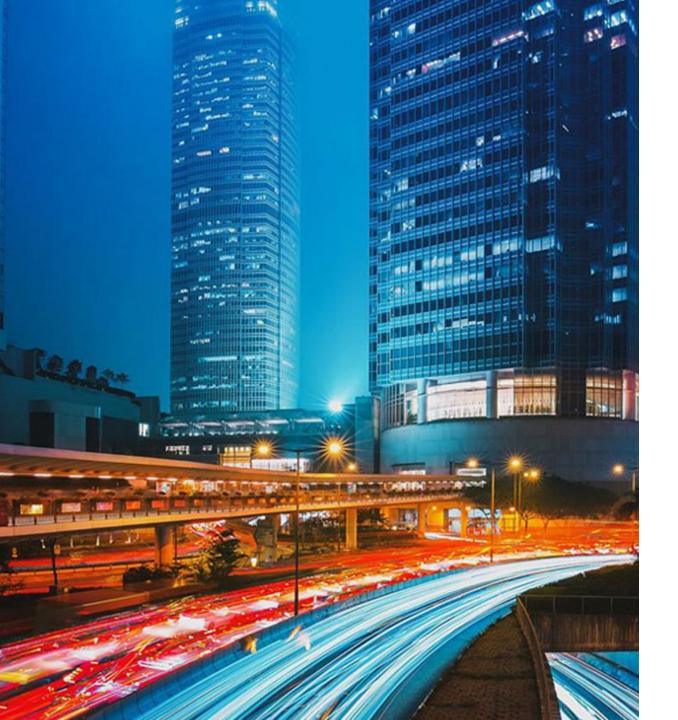
Description

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.

Objective

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.

- MobiDataBW
- Solita





Esri Connecting data for more road safety

Description

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.

Objective

Optimised traffic control and resource planning

- OEM
- Esri





Insurance company Pay as you drive

Description

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.

Objective

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

- OEMs
- Insurance companies





Telematics Service Providers (TSP) Standardisation of fleet data

Description

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.

Objective

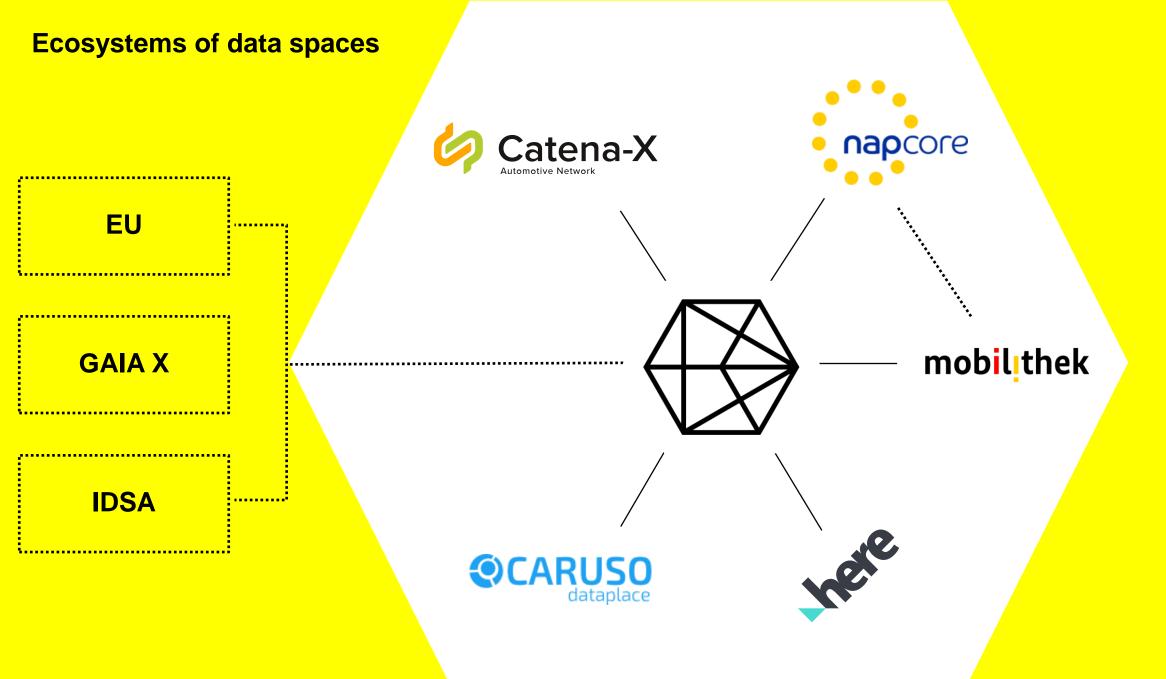
Standardisation will help reduce integration efforts and enable the development of new fleet solutions.

- OEMs
- Telematics Service Providers

09 Objectives

Europeanisation and networking





info@mobility-dataspace.eu www.mobility-dataspace.eu



DRM Datenraum Mobilität GmbH Karolinenplatz 4 D-80333 München Funded by:



Federal Ministry for Digital and Transport

on the basis of a decision by the German Bundestag