



Mobility  
Data Space

Data Sharing Community

# Onboarding Package

Mobility Data Space | Data Sharing Community | April 2022

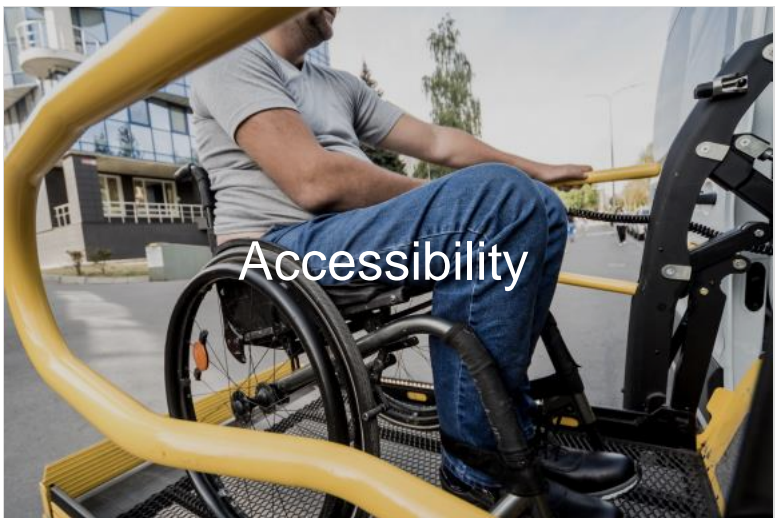
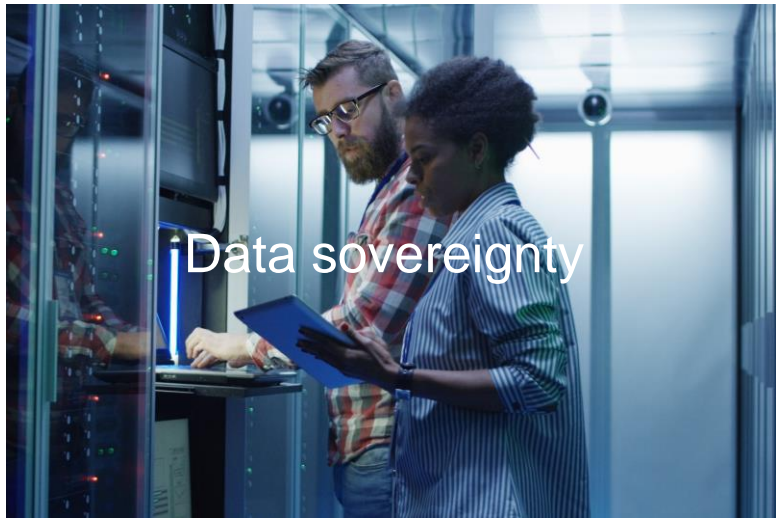
- 01 MDS Overview
- 02 Technical Onboarding Information
- 03 Community Onboarding Information
- 04 Contact Information



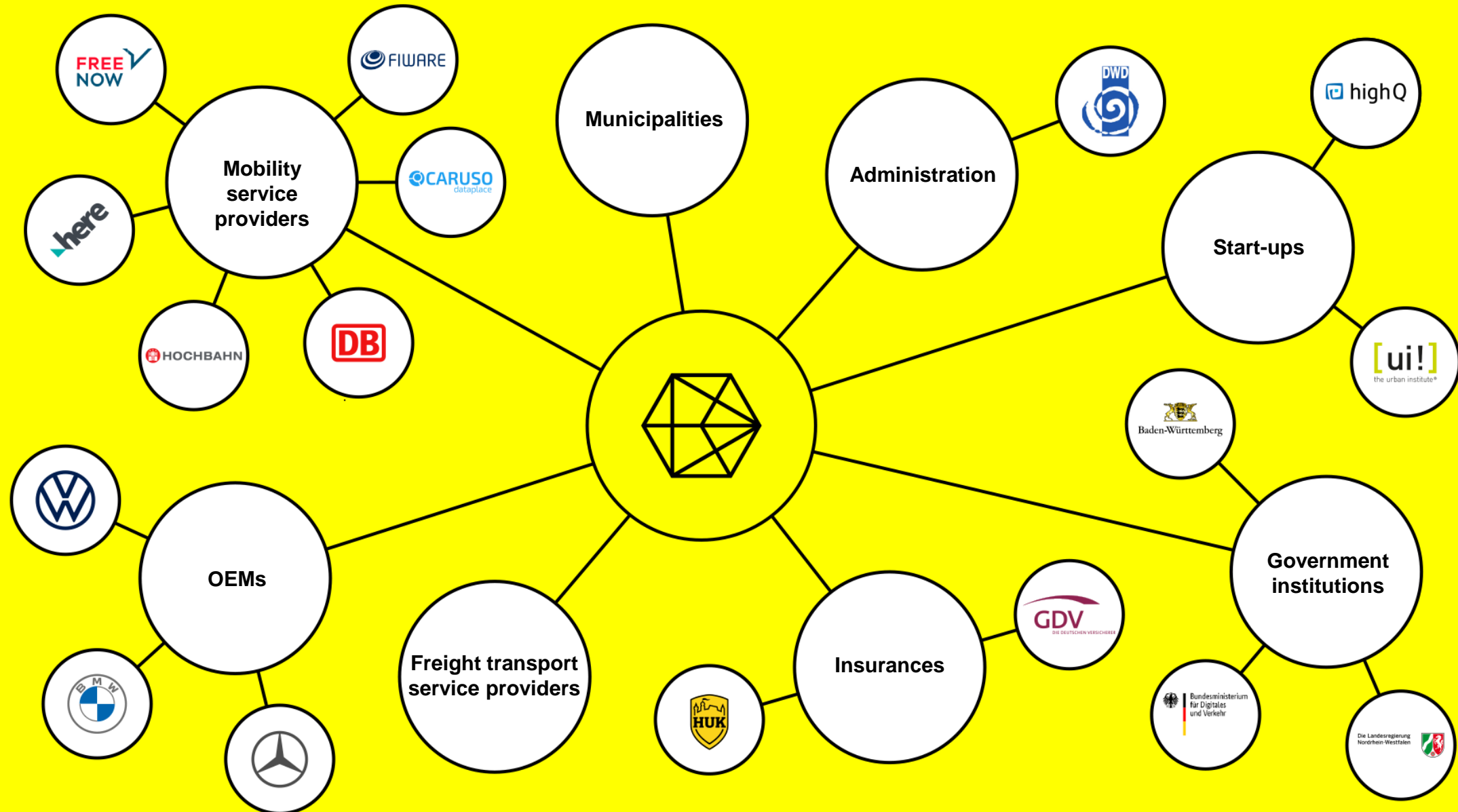
# 01

# MDS Overview

# Opportunities and Challenges

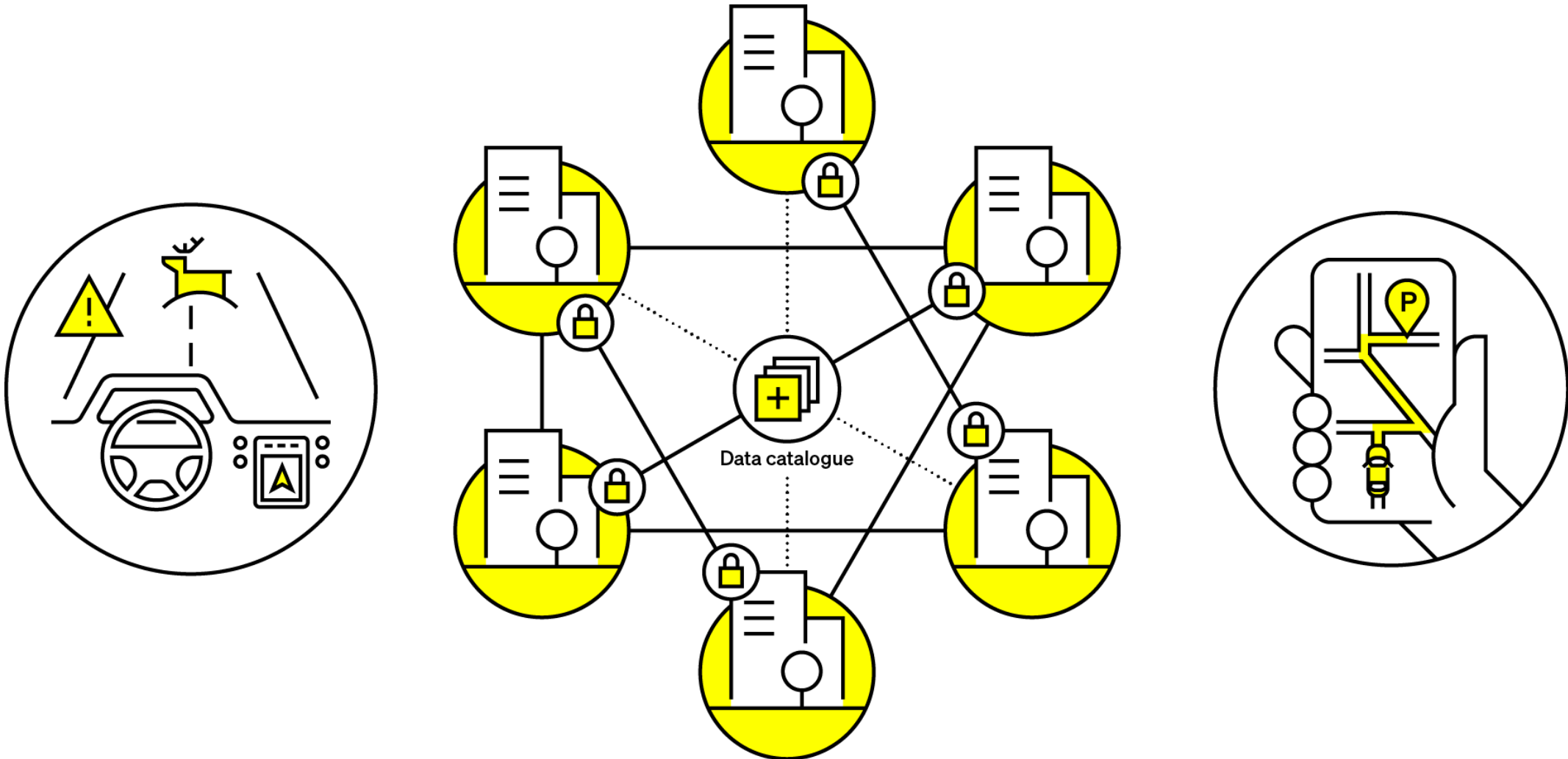


# MDS: Network of strong partners



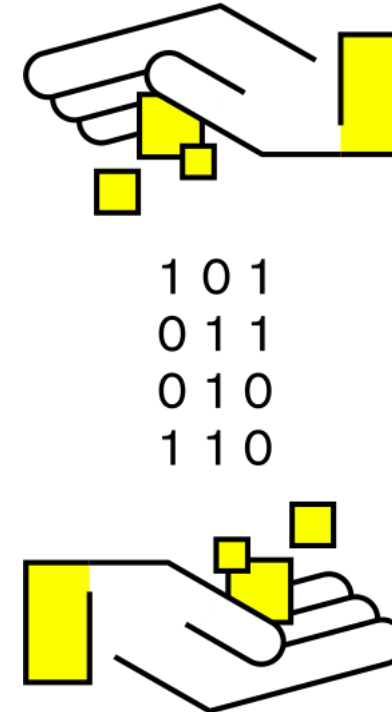
MDS is developing into an independent marketplace for mobility data that is open to everyone. The data platform enables the mobility of tomorrow by providing a secure environment for sovereign data exchange. This results in innovative products, services and business models developing for the benefit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

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



# Marketplace for services: wide range and tailor-made services

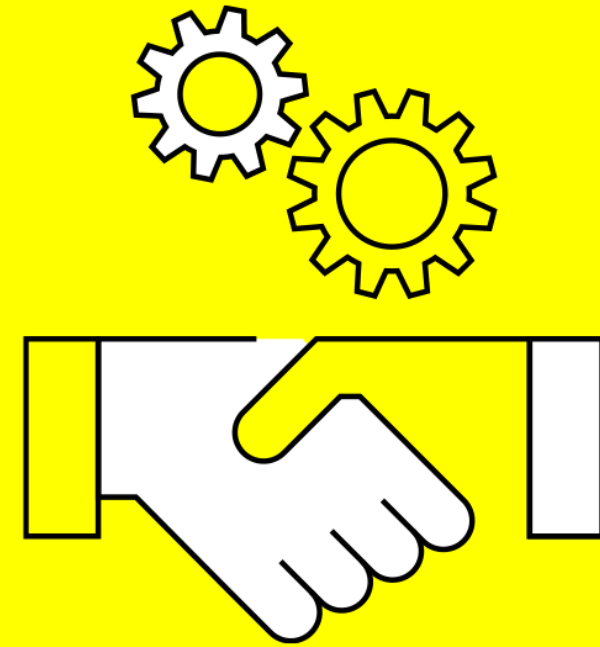
- **Decentralisation:**  
data is not stored centrally, but shared directly among participants
- **Freedom of contract:**  
contractual partners negotiate conditions directly and autonomously among themselves
- **Value creation:**  
no transaction costs will be due for participants until 2024, and only low costs will be incurred thereafter as well





## 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



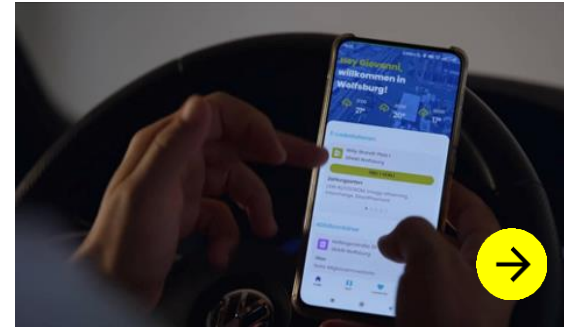
# Success stories



**BMW**  
Local Hazard Information



**Caruso**  
Sustainable use of  
of electric drives



**FIWARE**  
Smart Parking



**highQ**  
AI-based optimisation of  
current mobility offers



**Mercedes-Benz**  
“Parking Monitoring” and  
“Slippery Road”



**[ui!] Urban Mobility  
Innovations**  
Information on capacity  
utilisation



**Volkswagen**  
Local Hazard Information

# Wide range of mobility data



Traffic information



Roadworks and road conditions



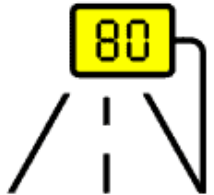
Traffic flow information



Parking information



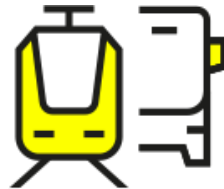
Fuel price and electromobility



Traffic signs and speed information



Weather information



Public transport information

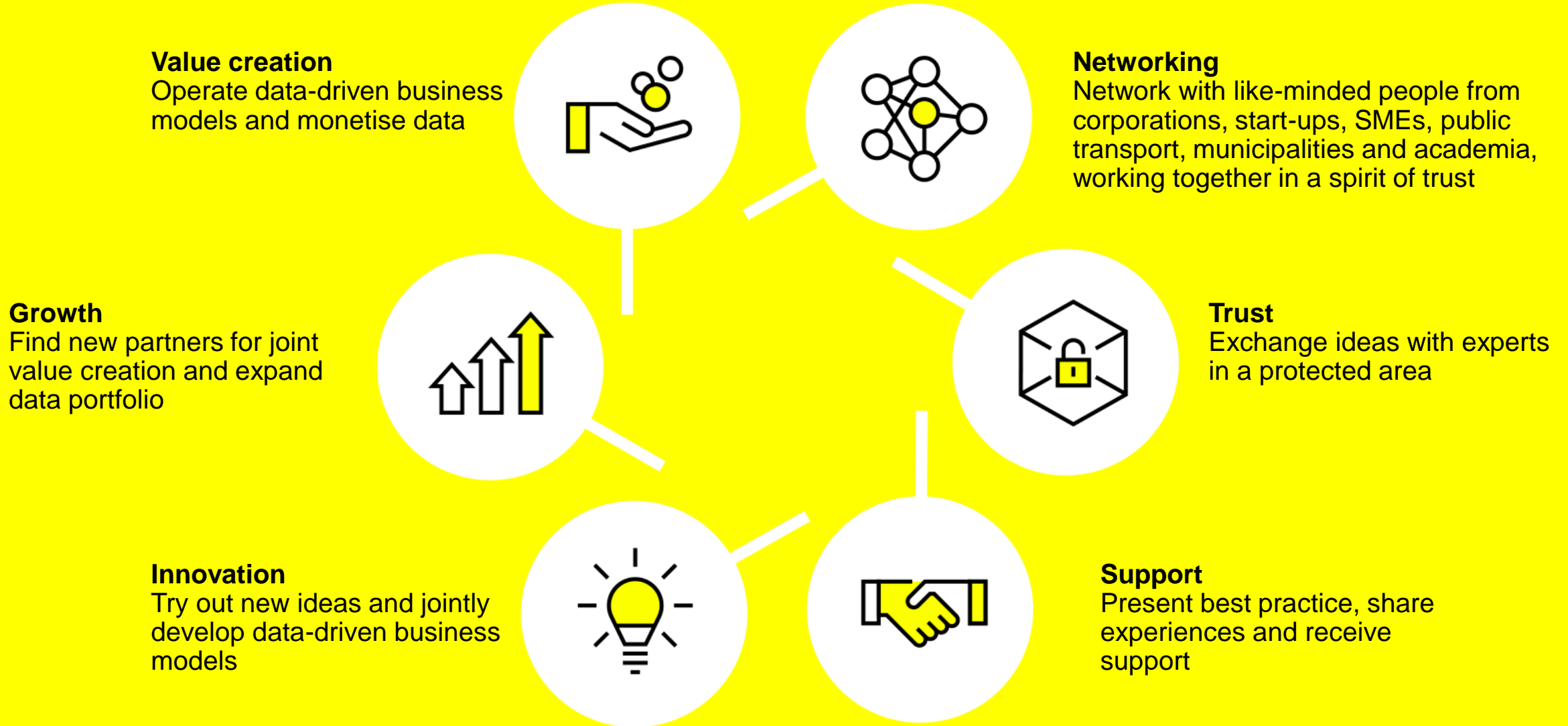


Car and bike sharing

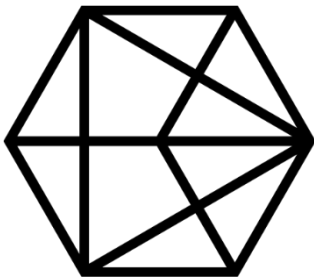
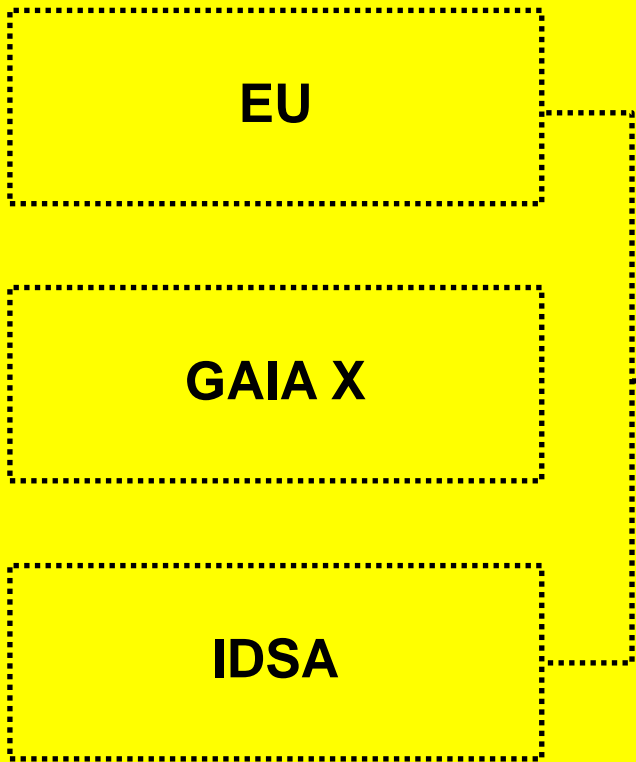


Infrastructure

# Advantages of participating in the Data Sharing Community at a glance



# Ecosystem of Dataspaces





02

# Technical Onboarding Information



# How to get there – Five steps to connect you to the Mobility Data Space

1

Download and  
deploy  
the Dataspace  
Connector

2

Organize DAPS  
token

3

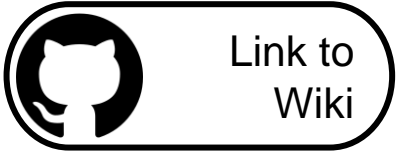
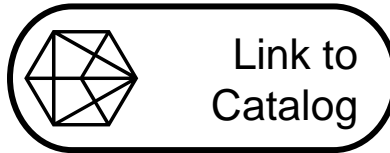
Install and  
configure  
your connector

4

Publish your  
connector  
in the MDS data  
catalog

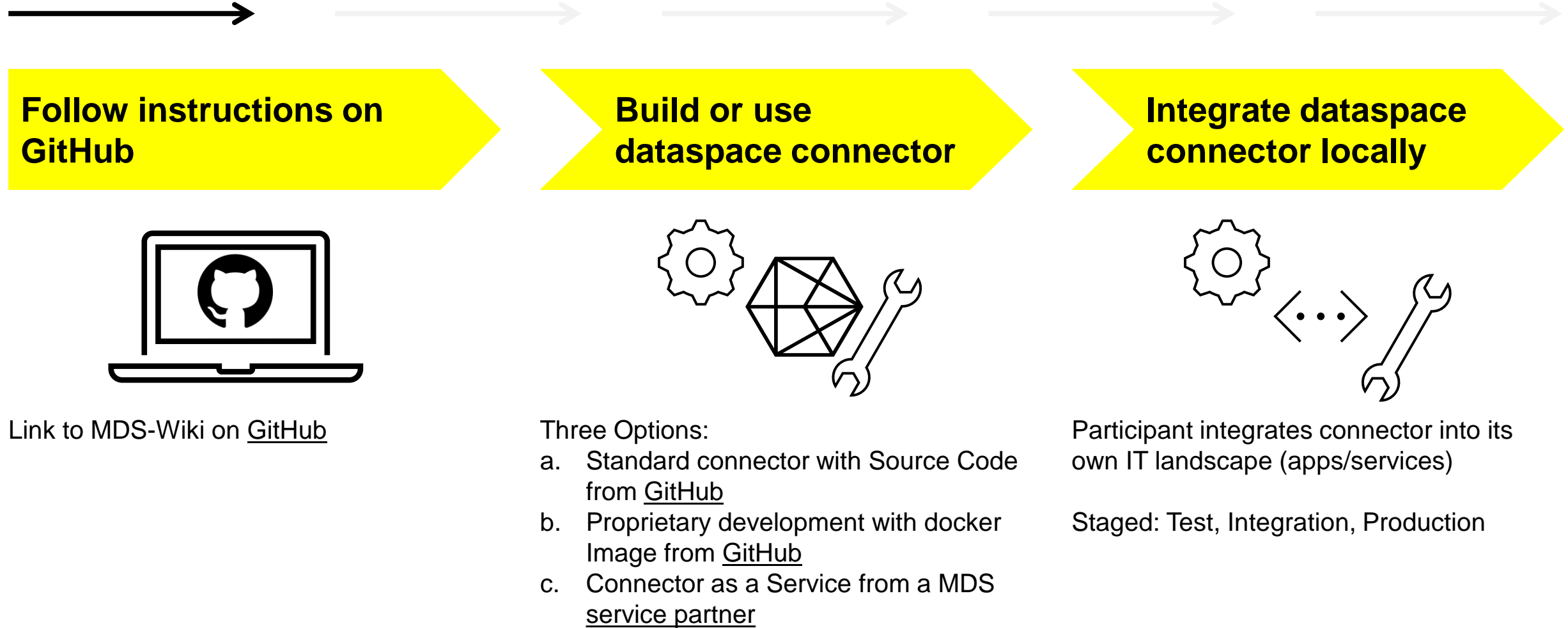
5

Contract and  
interact with  
other  
participants



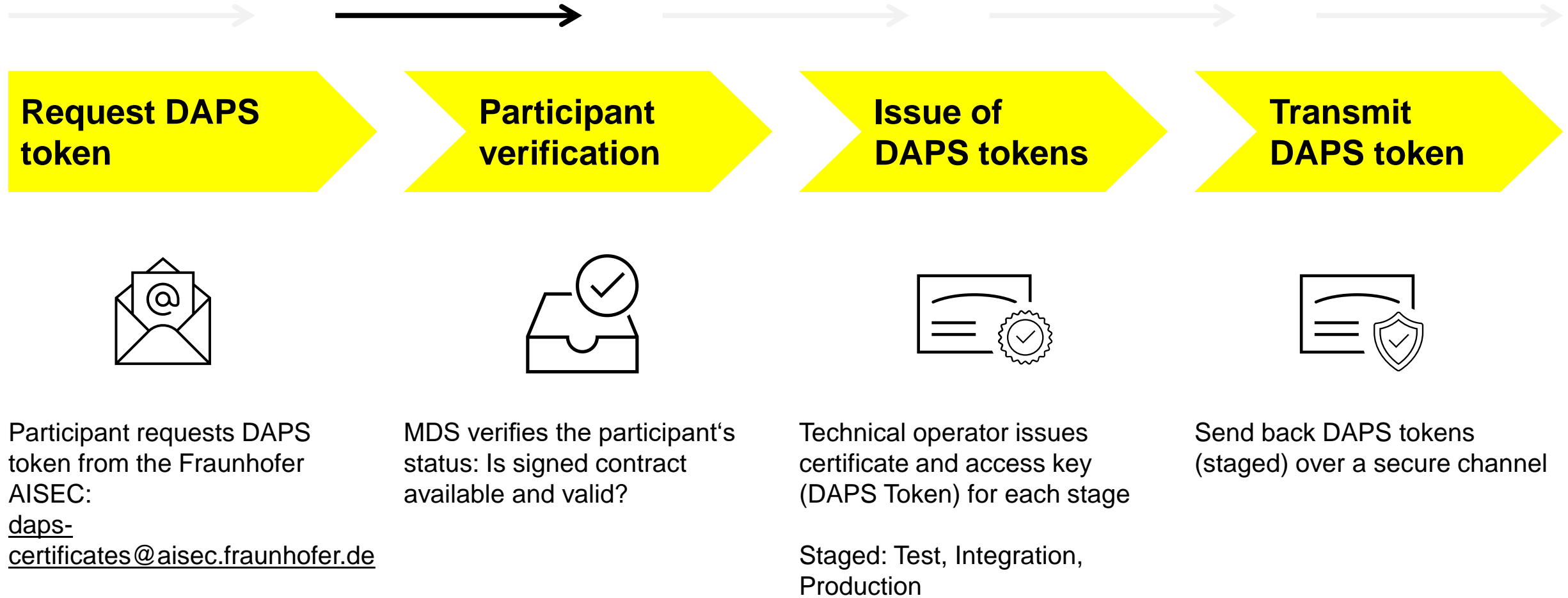
If you need support, please contact our experts at the Mobility Data Space or get connected with our Service Partners.

# 1 Download and deploy the Dataspace Connector



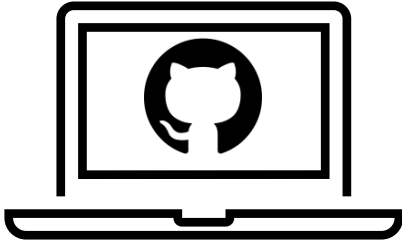


## 2 Organize DAPS token



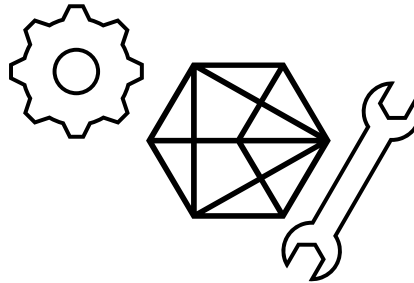
### 3 Install and configure your connector

**Follow instructions on  
GitHub**



Link to MDS-Wiki on [GitHub](#)

**Configure dataspace  
connector**

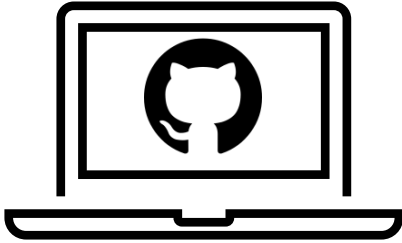


Participant configures Dataspace  
Connector (Staged):

- Deposits the DAPS token in the connector
- Configures broker endpoint
- Configures Clearing House endpoint

## 4 Publish your connector in the MDS data catalog

**Follow instructions on  
GitHub**



Link to MDS-Wiki on [GitHub](#)

**Publish artefacts in  
the MDS Catalog**



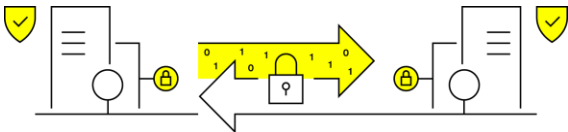
Participant describes its Dataspace  
Connector, resources and its range of  
services in the [MDS Catalog](#) (Staged)

# 5 Contract and interact with other participants



(<https://broker.test.mobilitydataspace.io/>)

Participants search and analyze service offerings and connector data in the MDS Catalog of other participants



Participants agree on partnership and use Dataspace Connectors to interact with other participants (as provider or consumer)



# 03

# Community Onboarding Information

# Together we drive the community development

## Community Events



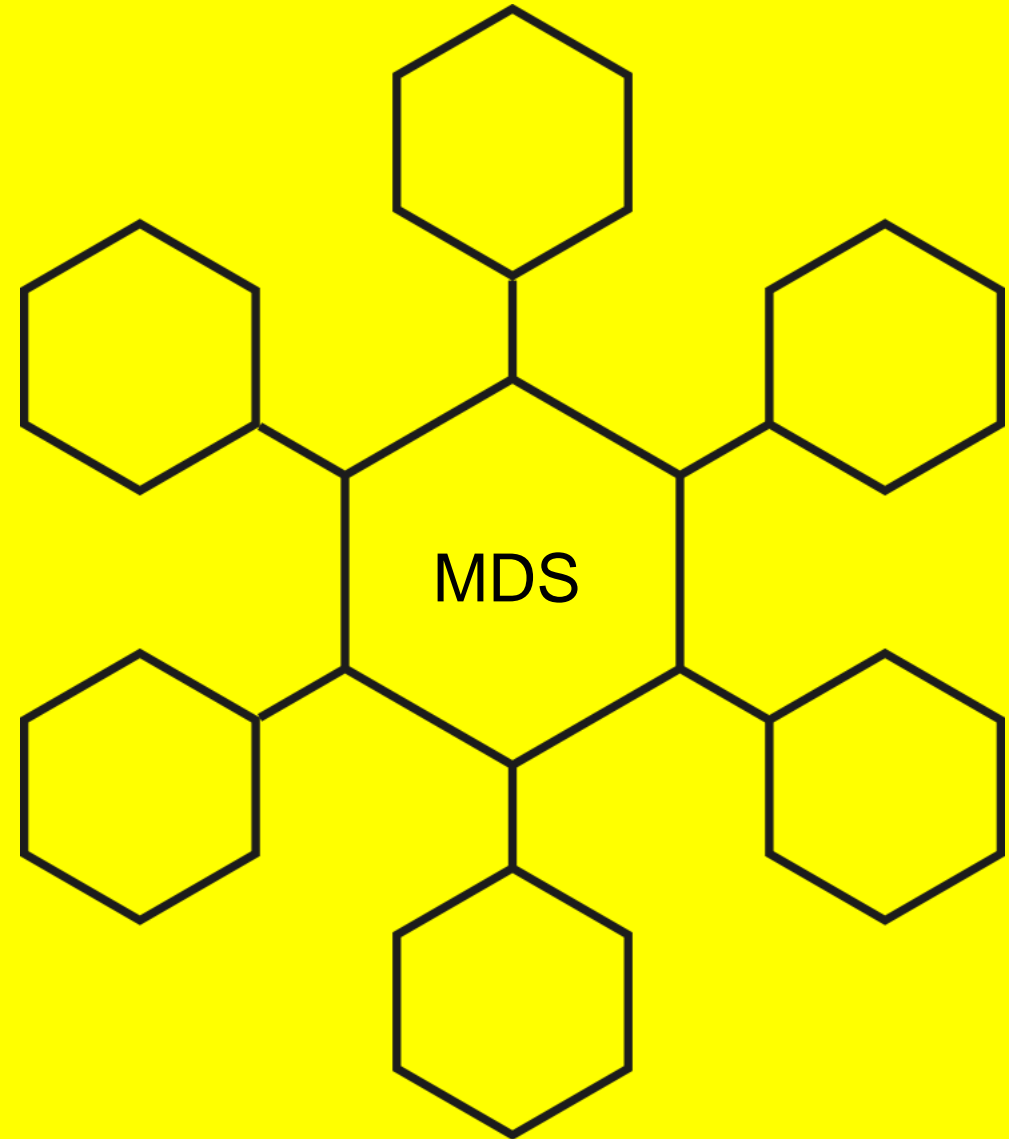
## Working Groups



## Community Forum



# MDS Community Events



# Wide range of offers with voluntary participation and controllable use of resources

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## Townhall Meetings



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## Participant Events



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## Service Partner Events



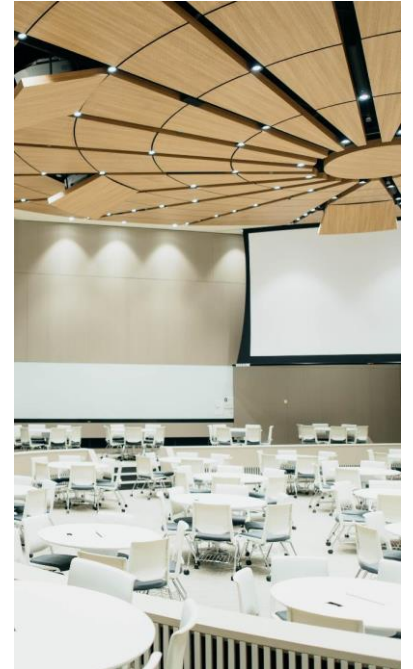
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## Impuls Sessions



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## MDS Summit





# Wide range of offers with voluntary participation and controllable use of resources

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## Townhall Meetings

Online 60–90-minute meetings organized by the MDS for all participants to share information and news from the different areas

### Objectives:

- Keep participants regularly updated on important developments
- Share MDS-wide information with the entire community
- Communicate updates from working groups

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## Participant Events

One MDS participant company hosts an event for other participants on a specific topic in coordination with the MDS

### Objectives:

- Intensify connection between participants
- Enable exchange on exciting use cases and topics

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## Service Partner Events

Service partner events are intended to provide impetus to enable data exchange and support its commercialization

### Objectives:

- Inspiration and exchange on the commercialization of data
- Share experiences from other projects
- Learn about concrete support offers

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## Impuls Sessions

Short impulses from mobility and data experts followed by a Q&A Session

### Objectives:

- Bringing innovative ideas into the MDS
- Content impulses through exchange with experts from all over the world
- Exchange on exciting use cases

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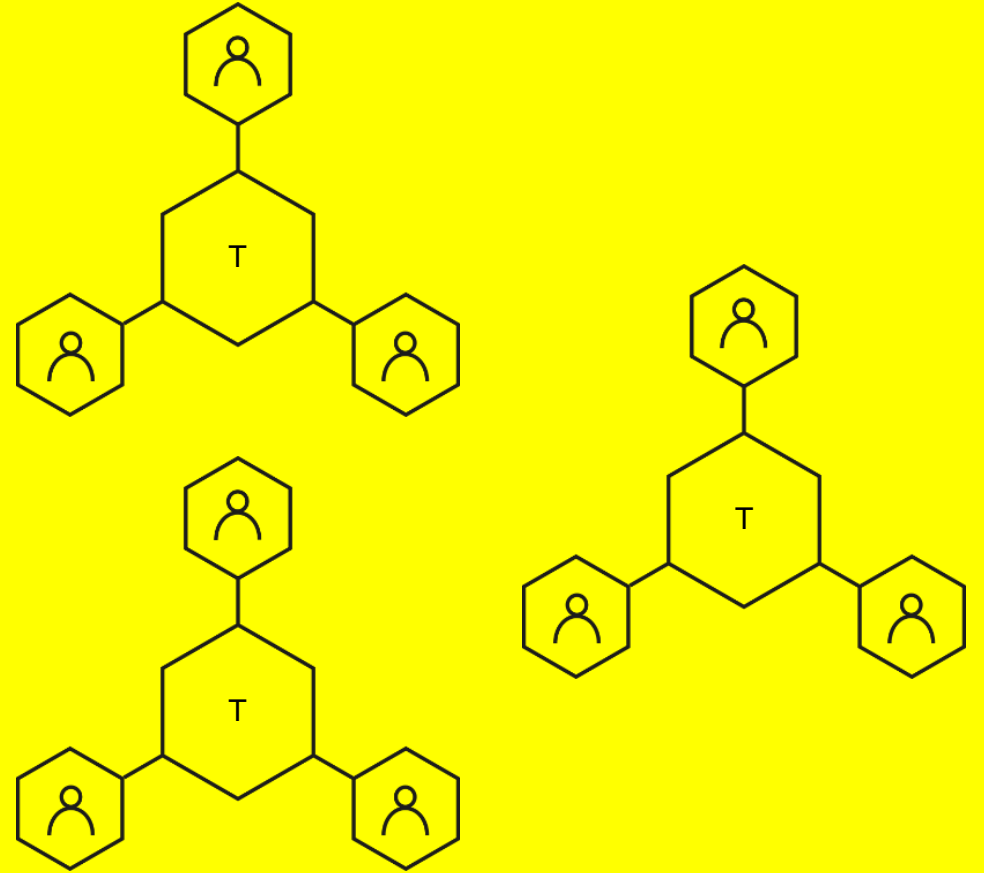
## MDS Summit

Festive annual event hosted by the MDS that serves both knowledge exchange and networking

### Objectives:

- Facilitate shared reflection and celebration of the past year's accomplishments
- Create visibility for successes of MDS participants

# Working Groups



## E-Mobility & Charging

### Objective

- **First Use Case** - improvement of charging point of interest (POI) data quality
  - We want to improve the data of the charging stations for the electric vehicle / hybrid customers by a common uniform or dynamic feedback data system
  - Vehicles and smartphones could be used to collect specific data from charging sessions to optimize the information exchange plus improve the data quality



### Problem description

- Missing or incorrect data of charging stations due to inaccurate initial data collection by the installer / planner are passed along the complete data chain: geo location, opening hours, occupancy, charging power, voltage level, ...
- **Consequences:**
  - Customer does not find charging station or searches for a very long time
  - Poor quality of navigation (e.g., wrong side of the street)
  - Problems to identify exact charging point in app for authentication



### Timing

1 per month



### Team

BMW, Hubei, Mercedes-Benz, VW, ....



**Get on board! Contact:**  
**Dr. Susette Germer**  
[susette.germer@mobility-dataspace.eu](mailto:susette.germer@mobility-dataspace.eu)

## Smart Parking

### Objective

- **First Use Case** - reduction of parking search traffic
  - We want to enable a direct navigation of the driver to the nearest free parking space near the destination and offer a direct link to local retailers, who in return can pay the parking costs



### Problem description

- Increasing shortage of parking space and long search for parking opportunities
- Lack of real-time information such as occupancy rate of the parking slots
- **Consequences:**
  - Traffic jams, unnecessary fuel consumption / CO<sub>2</sub> pollution, additional accident risks and loss of time
  - Inefficient parking space management (occupancy rate)



### Timing

1 per month



### Team

FIWARE Foundation  
Mercedes-Benz  
Urban Software Institute



**Get on board! Contact:**  
**Dr. Susette Germer**  
[susette.germer@mobility-dataspace.eu](mailto:susette.germer@mobility-dataspace.eu)

## Logistics Applications

### Objective

- We want to enable digital logistics management across all modes of transport – a fully digitalized supply chain
- *Electronic consignment note (eCRM)*, which is supported by the implemented law of the Federal Council from September 2021, which eliminates the previously necessary paper document



### Problem description

- High cost and inefficient paperwork related to the analog document
- Lack of real time information for providers and customers about their delivery status
- **Consequences:**
  - Slow handling of goods throughout the whole supply chain
  - No European competitiveness (Netherlands, Belgium and Luxembourg already switched to paperless consignments)



### Timing

1 per month



### Team

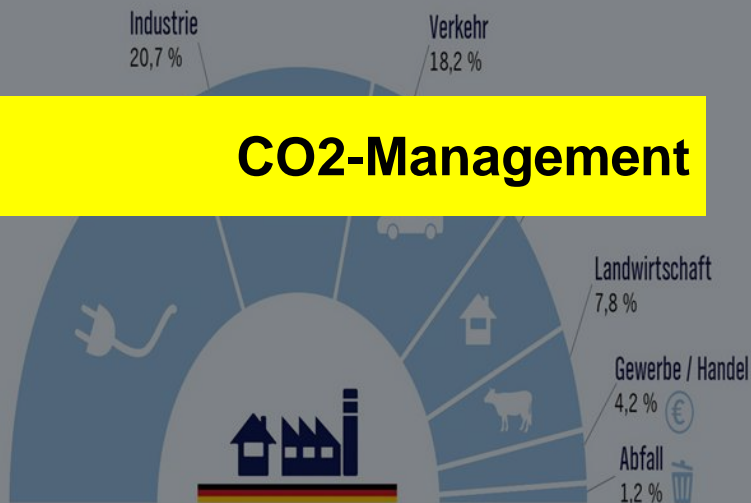
Deutsche Post DHL  
Fraunhofer IML  
Rostock Port



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## CO<sub>2</sub>-Management



Grafik: NDR / Quelle: Bundesumweltministerium (2016)



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**Dr. Susette Germer**  
[susette.germer@mobility-dataspace.eu](mailto:susette.germer@mobility-dataspace.eu)

## Objective

- We want to enable the use of digital technologies to ensure Germany can achieve its climate targets by 2030 (Bitkom study: net CO<sub>2</sub> savings achievable through digitization 126 megatons, while Germany must cut 372 megatons over the next 10 years)
- Sectors: energy, agriculture, healthcare, industrial manufacturing, mobility, smart buildings, work and business



## Problem description

- Germany must reduce its CO<sub>2</sub> emissions by at least 65% (compared to 1990)
- **Consequences:**
  - January 2022: Germany will fall significantly below its climate targets
  - Without further actions, CO<sub>2</sub> emissions will fall by only 49 % instead of 65 % by 2030



## Timing

1 per month

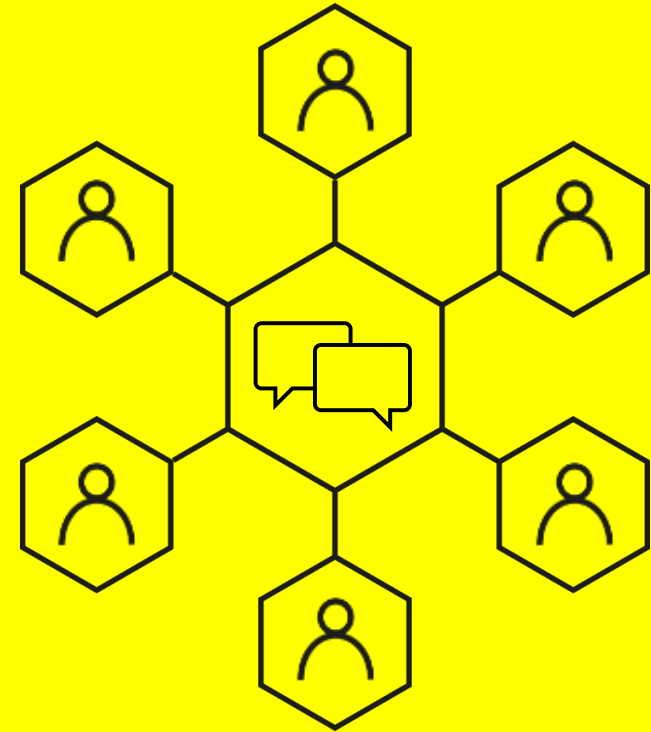


## Team

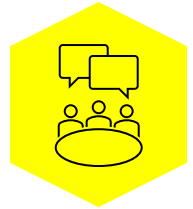
All of us, DB, Deutsche Post DHL,  
Lufthansa



# Community Forum

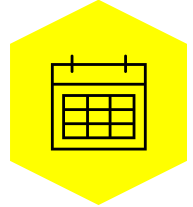


# The new digital habitat for the Mobility Data Space with key features for the MDS Community



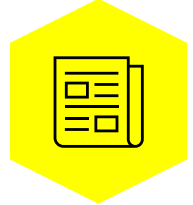
## Forum

Network with the community via bulletin board, working groups and technical discussions



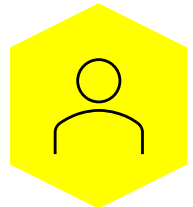
## Events

Sign up for exclusive events



## Articles

Receive advice and share your expertise



## User

Create and manage your personalized user profile

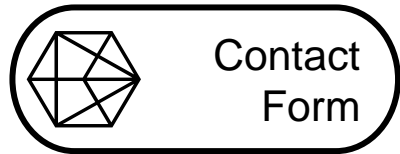




# Get on board in three steps

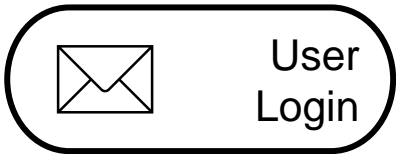
1

Fill out the website contact form



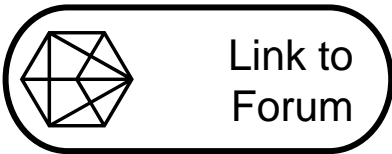
2

Receive your user login information



3

Create your user profile





04

# Contact Information

# The MDS team - your contacts



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Onboarding of participants

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