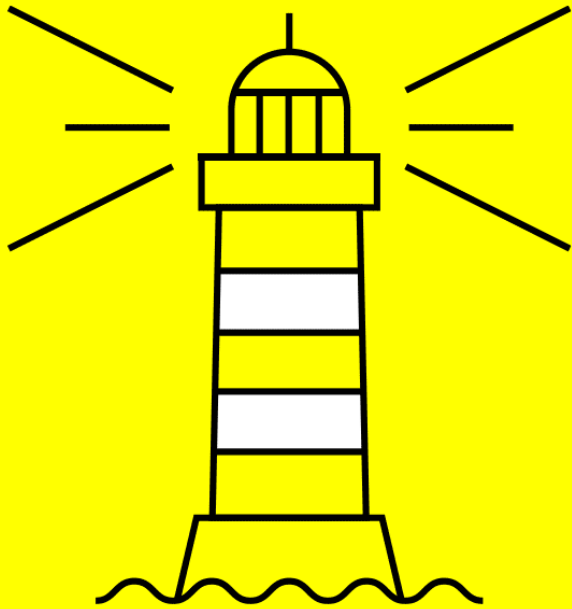


Mobility
Data Space
Data Sharing Community

Mobility Data Space: Data Sharing Community



The Mobility Data Space is a lighthouse project of the Federal Government's Digital Strategy

The Federal Government has launched its new digital strategy. It focuses on projects and initiatives that make data in key areas of the economy and society usable in a responsible way. The Mobility Data Space is one of 18 lighthouse projects. This motivates us even more in our mission to connect people and enable sovereign data exchange: So that mobility becomes safer, more sustainable and more user-friendly!



Die
Bundesregierung

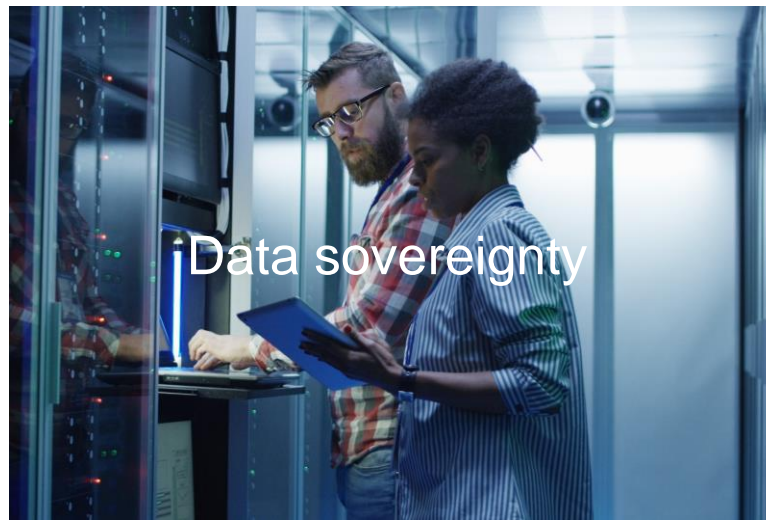
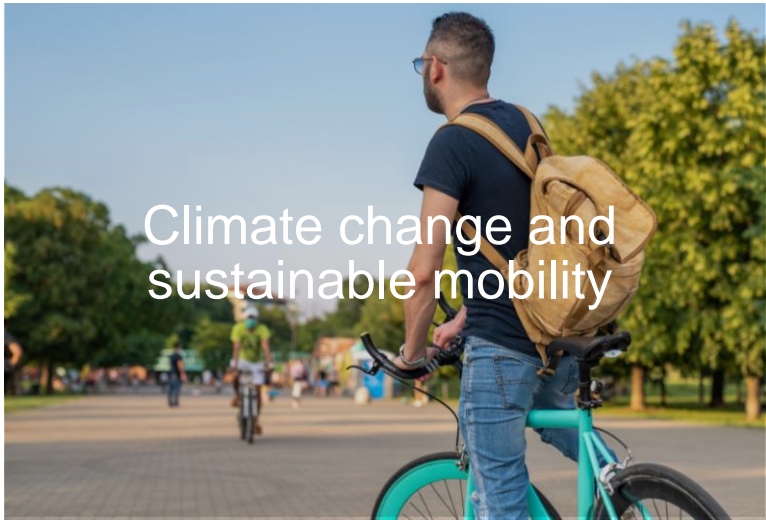
More information on the [digital strategy](#).

Click here for the [Federal Government's lighthouse projects](#).

01

Challenges

01 Challenges



”



Let's take the mobility of the future; data will play a crucial role in this - for autonomous driving, in the networking of different means of transport or in the intelligent control of traffic flows. That is why we need a uniform, cross-border European space for mobility data as soon as possible.

We have made a start in Germany with the Mobility Data Space. Let's link it with the whole of Europe. It is open to everyone who wants to make a difference. This way, we can become a global pioneer.

**Federal Chancellor Olaf Scholz,
Keynote speech on European policy,
Charles University, Prague, 29.08.2022.**

We need an environment where creativity and innovation can flourish as freely as possible, where data is available and accessible, and where there is a clear value compass and transparency. That is why we rely on open data, sharing communities and data spaces such as our Mobility Data Space.

In the transport sector, we can use intelligently connected data to tailor transport services to individual needs and develop new, climate-friendly mobility solutions such as autonomous shuttles.

Federal Minister for Digital and Transport Dr. Volker Wissing
Federal Ministry of Digital and Transport, 05.05.2023



02

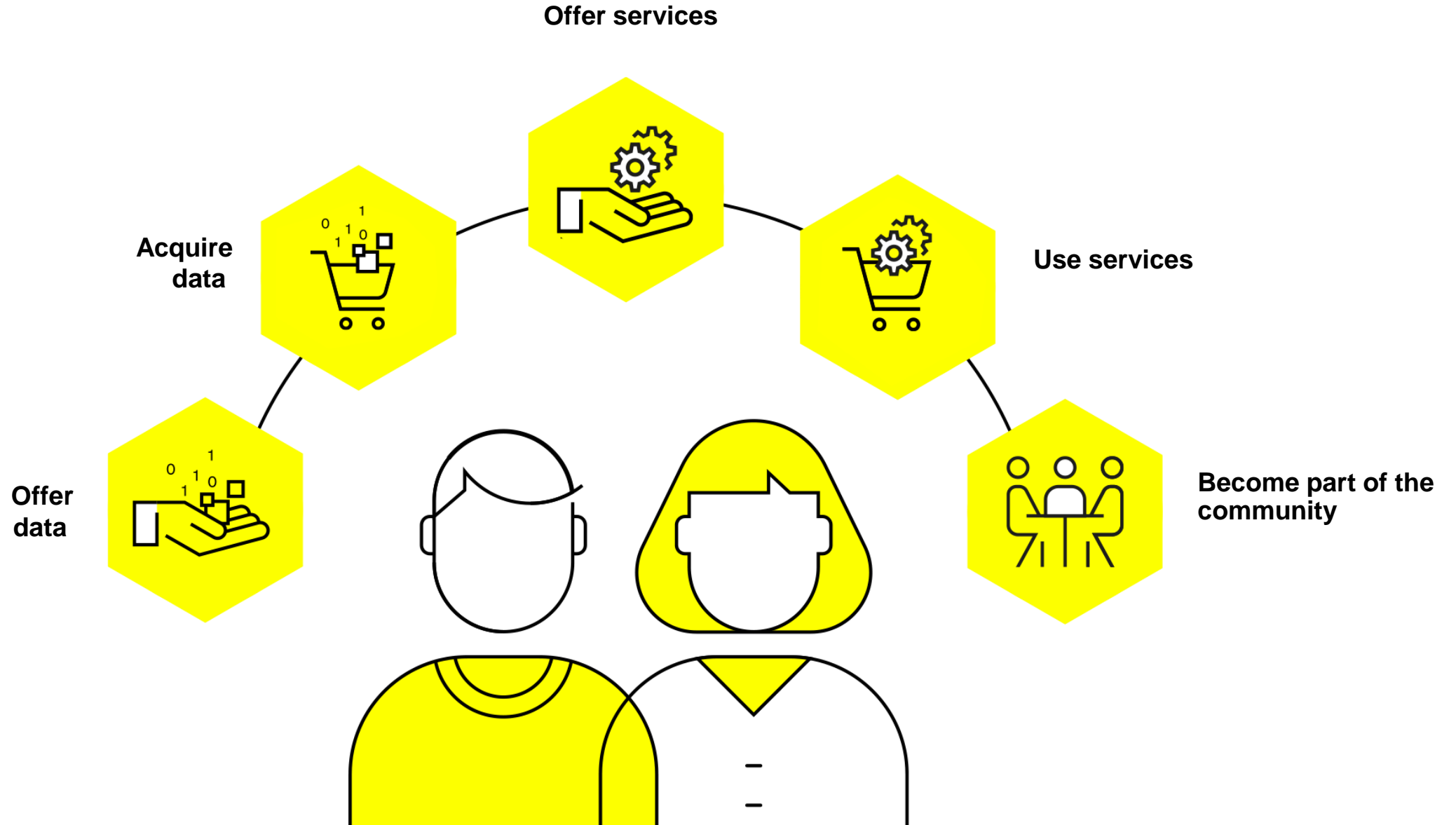
Vision

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

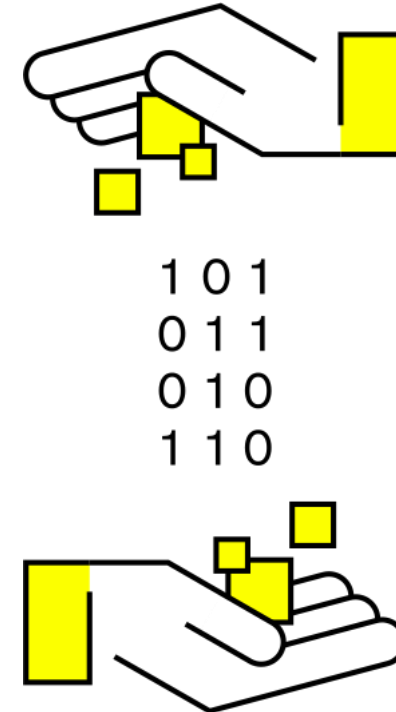
Data Sharing Community

Data Sharing Community: trustworthy ecosystem for mobility pioneers



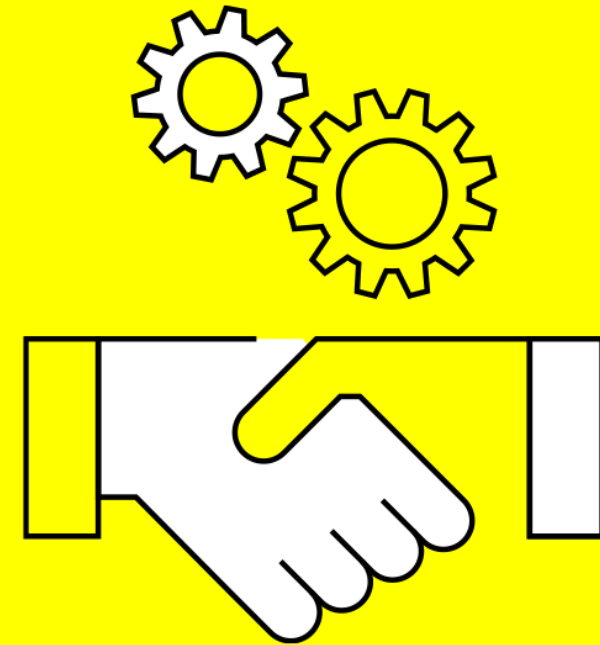
Marketplace for services: wide range and tailor-made services

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



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

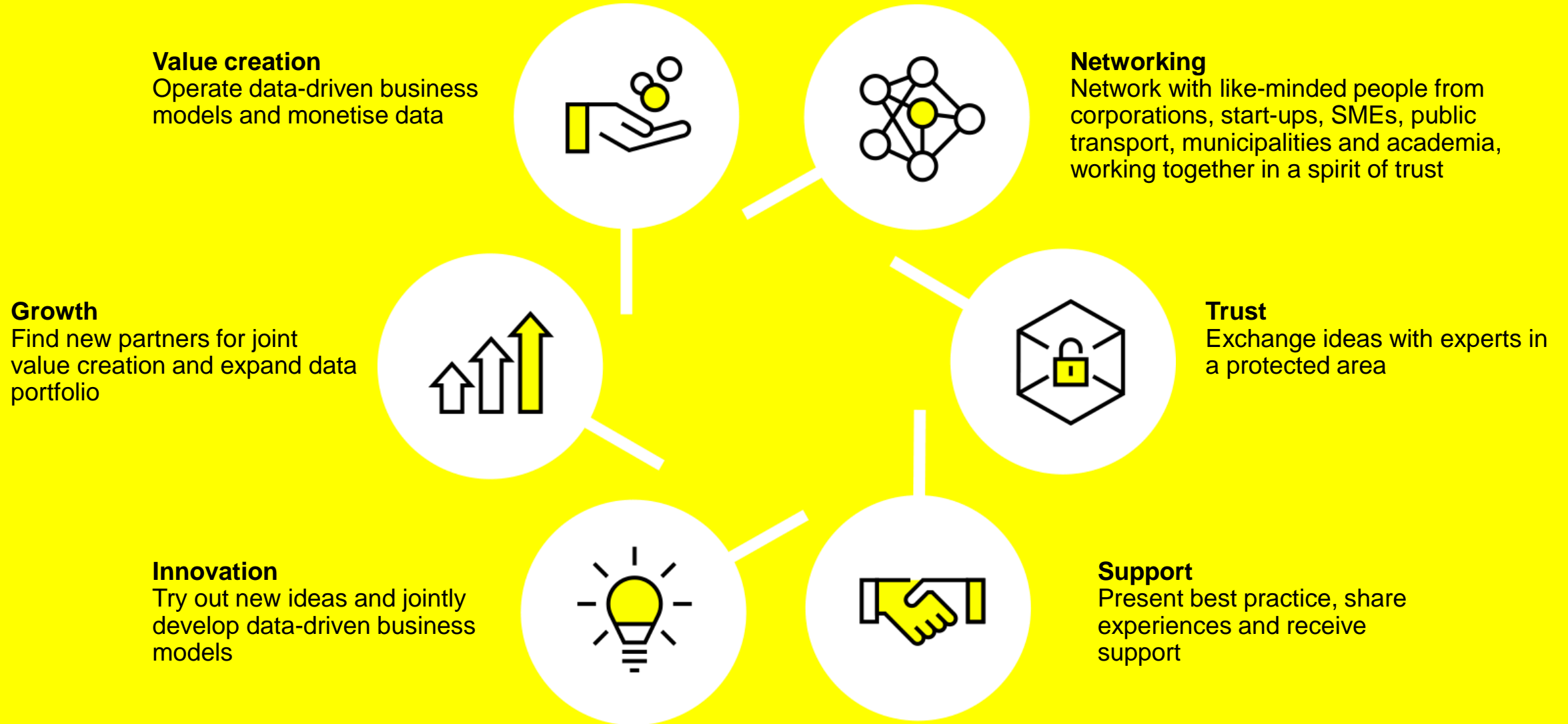
Operation

**Data & identity
management**

Development

**Business
development**

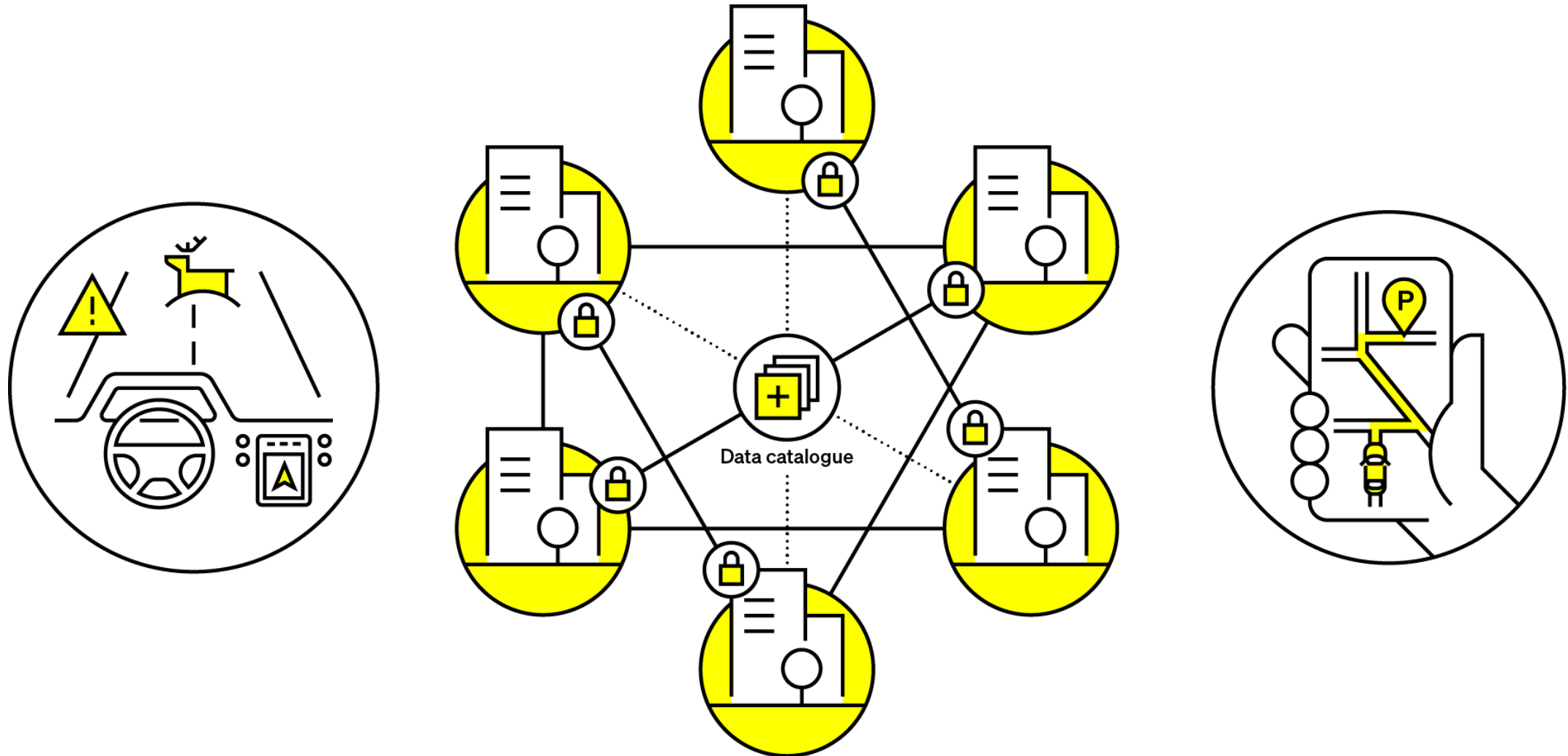
Advantages of participating in the Data Sharing Community at a glance



04

Mode of operation

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



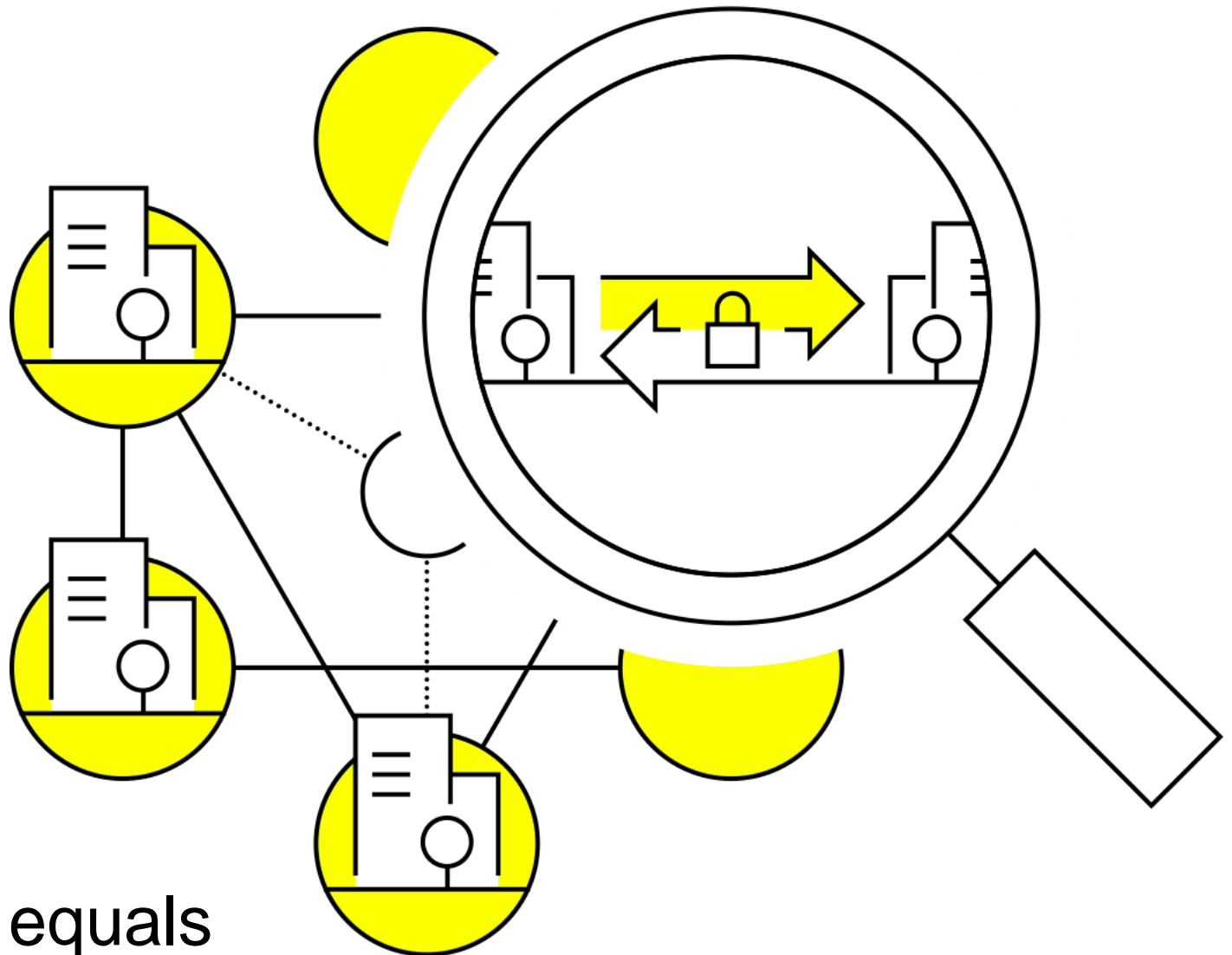
Data transmission in Mobility Data Space



The image shows a person's hand pointing at a laptop screen. The screen displays a code editor with a file explorer on the left and code in the main area. The code is a mix of JavaScript and HTML, likely for a web application. The file explorer shows a project structure with folders like 'components', 'dashboard', and 'queries'. The code in the main area includes HTML tags like `<div className="col col-1">` and ` {` and `let elem = document.getElementById('filter-status-scroll')`. The code is highlighted in blue and green, and the background is dark.

The secure space for data exchange
between partners among equals

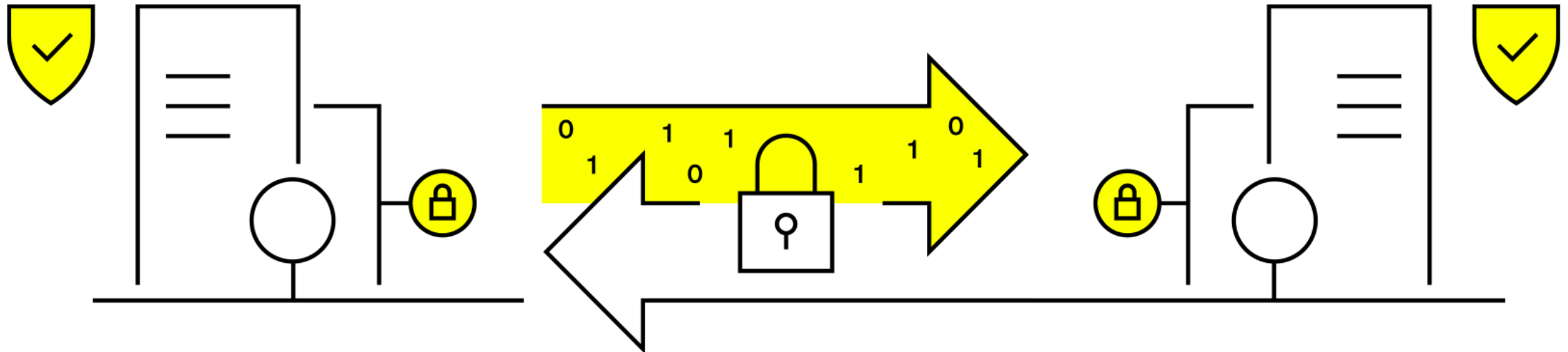
Data transmission in Mobility Data Space



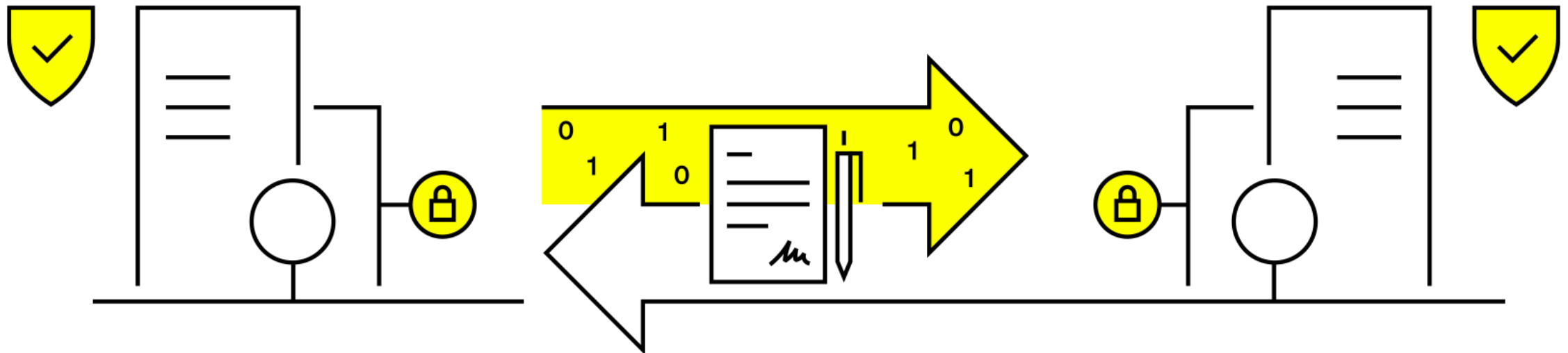
The secure space
for data exchange
between partners among equals

Step 1: peer-to-peer data transfer via trusted IT architecture

Data transmission via connectors



Step 2: negotiating the conditions between the contracting parties



05

Data


Wide range of mobility data



Traffic information



Roadworks and road conditions



Traffic flow information



Parking information



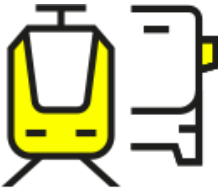
Fuel price and electromobility




Traffic signs and speed information




Weather information



Public transport information



Car and bike sharing



Infrastructure

Wide range of mobility data

...
More

...
More

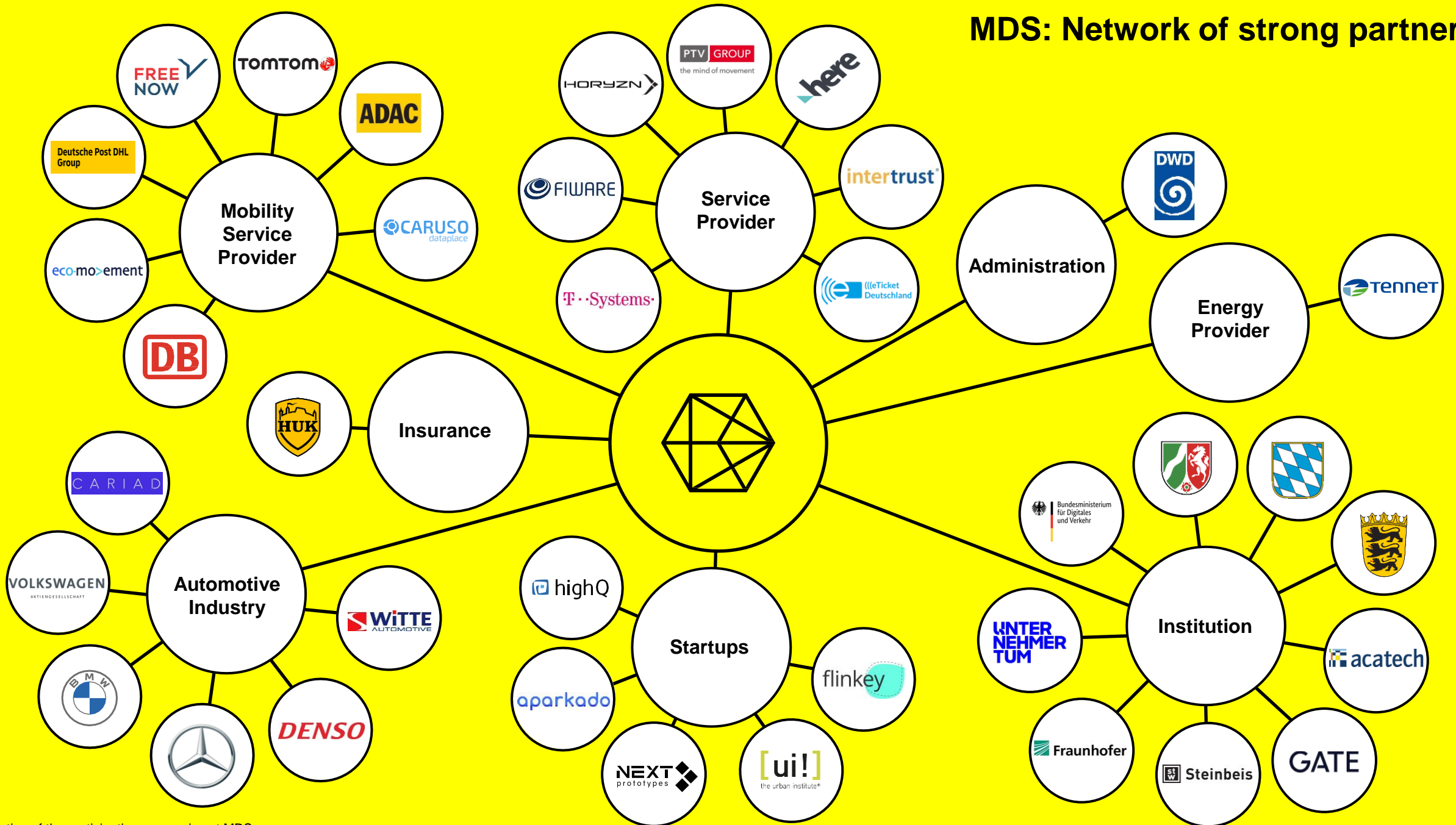
...
More

... categories to come

06

Members

MDS: Network of strong partners



Overview of all MDS members

1001 Lakes Oy

52°North Spatial
Information Research
GmbH

ADAC

Aegis Rider AG

AGES Maut System
GmbH & Co.KG

Alcifo

Aparkado

arrive Mobility

arxes engineering
GmbH

Asociación Centro
Tecnológico CEIT

ATHOS

Automicle Holding BV

Autoroutes Trafic

AVENYR GmbH

AVL

bayern innovativ –
Bayerische Gesellschaft
für Innovation und
Wissenstransfer mbH

BayWa Mobility
Solutions GmbH

Beebucket GmbH

bloXmove

BMW

Overview of all MDS members

Bolt	Bridgestone Mobility Solutions B.V.	Büsing, Müffelmann & Theye	Cariad/GIS	Caruso
Charge X	CISS TDI GmbH	CM1 GmbH	Data FlosCodecentric AG	Data Floss
Data Intelligence Offensive	Datenkompetenz-zentrum Städte und Regionen - DKSR GmbH	Deeptraffic	DeepVolt	DEKRA
DENSO	Deutsche Bahn	Deutsches Zentrum für Luft- und Raumfahrt e.V.	Digital Charging Solutions	DRIMAES Inc.

Overview of all MDS members

DWD – Deutscher Wetterdienst	E.ON	E.ON Drive Infrastructures	EcoMovement	EDAG
EIT Urban Mobility Innovation Hub Central	EMQ GmbH	Energiekonzepte Vollert	Esri Deutschland GmbH	EUCON
Ferdinand-Steinbeis- Institut	FIWARE	FKFS – Forschungsinstitut für Kraftfahrwesen und Fahrzeugmotoren Stuttgart	Fraunhofer IEE	Fraunhofer ISE
Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung	Fraunhofer-Institut für Verkehrs- und Infrastruktursysteme IVI	FREENOW	GATE Institute	Geotab GmbH

Overview of all MDS members

GP Joule GmbH

Hamburger Hochbahn
AG

Heusch/Boesefeldt

highQ

Horyzn

Hub2Go

Huject

HUK-Coburg

HUSS-Verlag GmbH

IBM Deutschland
GmbH

Ifeu – Institut für
Energie- und
Umweltforschung
Heidelberg gGmbH

Infra.lytics

Initiative für sicherere
Straßen

Intertrust

Invenium Data Insights
GmbH

IW Consult

JENOPTIK AG

Kaufmann Langhans

Keita Mobility Factory

KIT – Karlsruher Institut
für Technologie

Overview of all MDS members

Konnecta Systems IKE	ladeplan	LiangDao	Linz Center of Mechatronics GmbH	Loglign GmbH
Lumii Energy Inc.	Mentz GmbH	Mercedes-Benz	MeteoIQ	MHP Management- und IT-Beratung GmbH
Mitsubishi Electric Europe B.V.	mixed data agency GmbH & Co.KG	Mobileye Germany	Mobilitätsreferat der Landeshauptstadt München	mouver GmbH
MOVEN	Movingdots GmbH	Next Prototypes TUM Hyperloop	Nexyo GmbH	NOI AG

Overview of all MDS members

Peregrine.ai

Perpetuum Progress
GmbH

PortExpertise

POST Luxembourg

PRISMA Solutions

PTV-Group

Q_Perior

raumobil

Regionalentwicklung
Oberland KU

Salzburg Research
Forschungsgesellschaft
mbH

SDA SE Open Industry
Solutions

Smart City System
Parking Solutions
GmbH

Smart Mobility
Research Group
(Universität Göttingen)

smartSense Conulting
Pvt.Ltd.

Software AG

Solita Germany GmbH

Spekter GmbH

Stadt Gelsenkirchen

Stadt Hamburg

Stadtwerke München

Overview of all MDS members

Startin'blox

Ströer Deutsche Städte
Medien GmbH

Swarm Analytics GmbH

T-Systems International

TD Reply GmbH

Tech Meets Legal
GmbH

TenneT

The Mobilers Team

Think-it

Thinkz

TIER Mobility SE

TNO

Toll4Europe GmbH

TomTom

Trafficon

TÜV Rheinland

UnternehmerTUM
GmbH

Twiliner AG

[ui!] Urban Software
Institute GmbH

Vaisala Oyj

Overview of all MDS members

Vianova

Vindelici Advisors AG

VIRTUAL VEHICLE
Research GmbH

Visa Europe

Vodafone

VRANA

WITTE Automotive

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:



Success stories

Our use cases - developed by the Data Sharing Community



BMW, Mercedes, HERE a.o.
Improvement of charging
station data quality



Mercedes-Benz
„Parking Monitoring“ and
„Slippery Road“



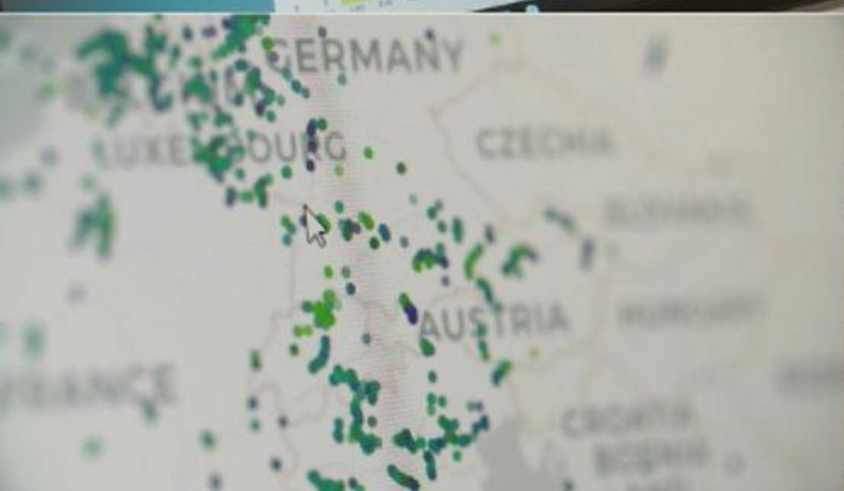
highQ
AI-based optimization of
current mobility offers



**And many more
Use Cases ...**

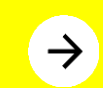


The BMW Group's Local Hazard Information product



BMW Local Hazard Information

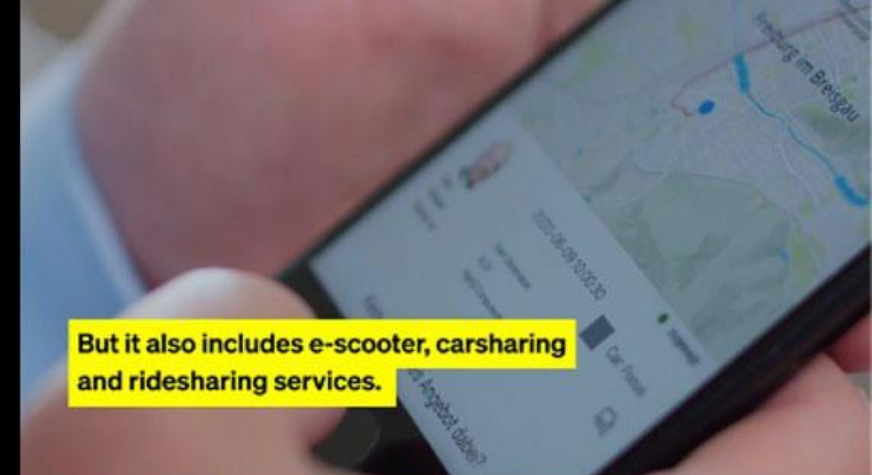
With the consent of customers, BMW vehicles can now independently detect hazardous situations such as heavy rain or black ice with the help of a large number of sensors and transmit this information to the BMW backend.



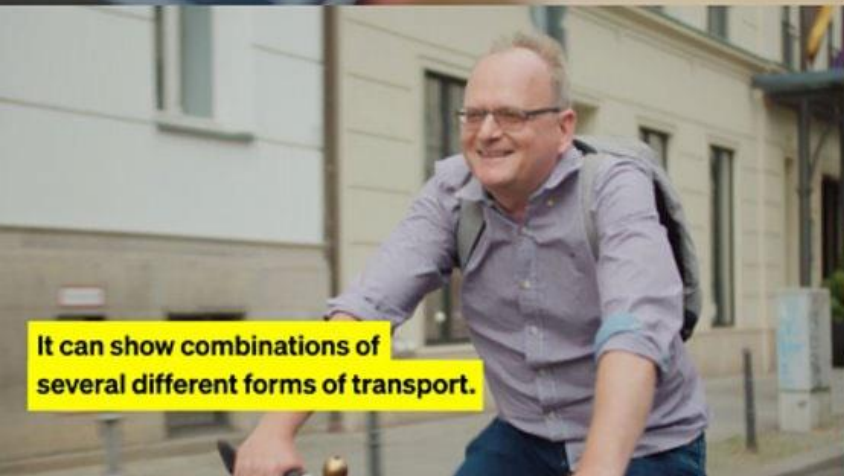


It finds you the fastest, cheapest or greenest journey plan, all in real time.

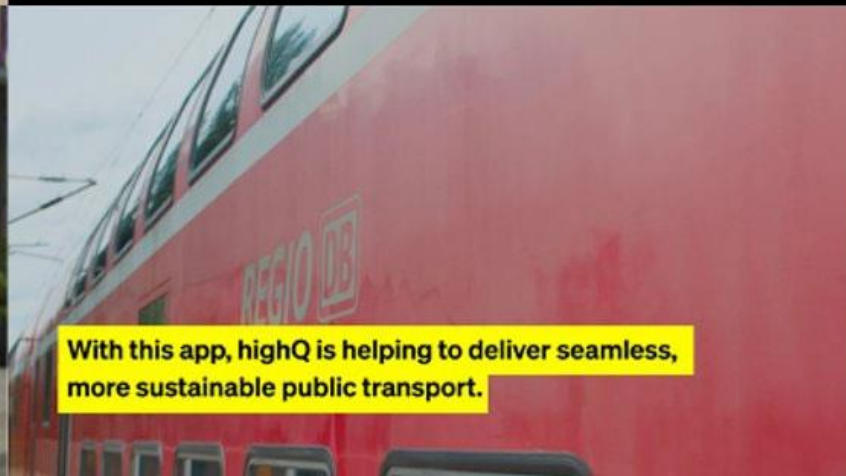
mytraQ - the mobility assistant from highQ



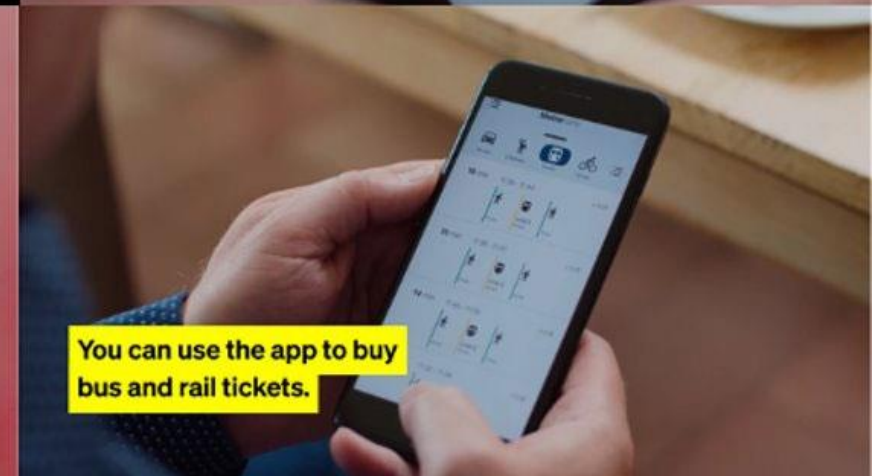
But it also includes e-scooter, carsharing and ridesharing services.



It can show combinations of several different forms of transport.



With this app, highQ is helping to deliver seamless, more sustainable public transport.



You can use the app to buy bus and rail tickets.



But it also includes e-scooter, carsharing and ridesharing services.

highQ
AI-based optimisation of current mobility offers

The aim of the highQ MobilitySuite app is to promote sustainable, multi-supplier and multi-modal transport options for people and goods.



It can show combinations of several different forms of transport.





How is Mercedes-Benz harnessing data?

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

Mercedes-Benz provides anonymised parking and departing processes of connected Mercedes-Benz vehicles via the Parking Monitoring interface.



The Parking Monitoring project





**“OptiPark”
by Urban Institute
and the city of Füssen**



**[ui!] Urban Mobility Innovations
Information on the utilisation of parking
spaces (OptiPark)**

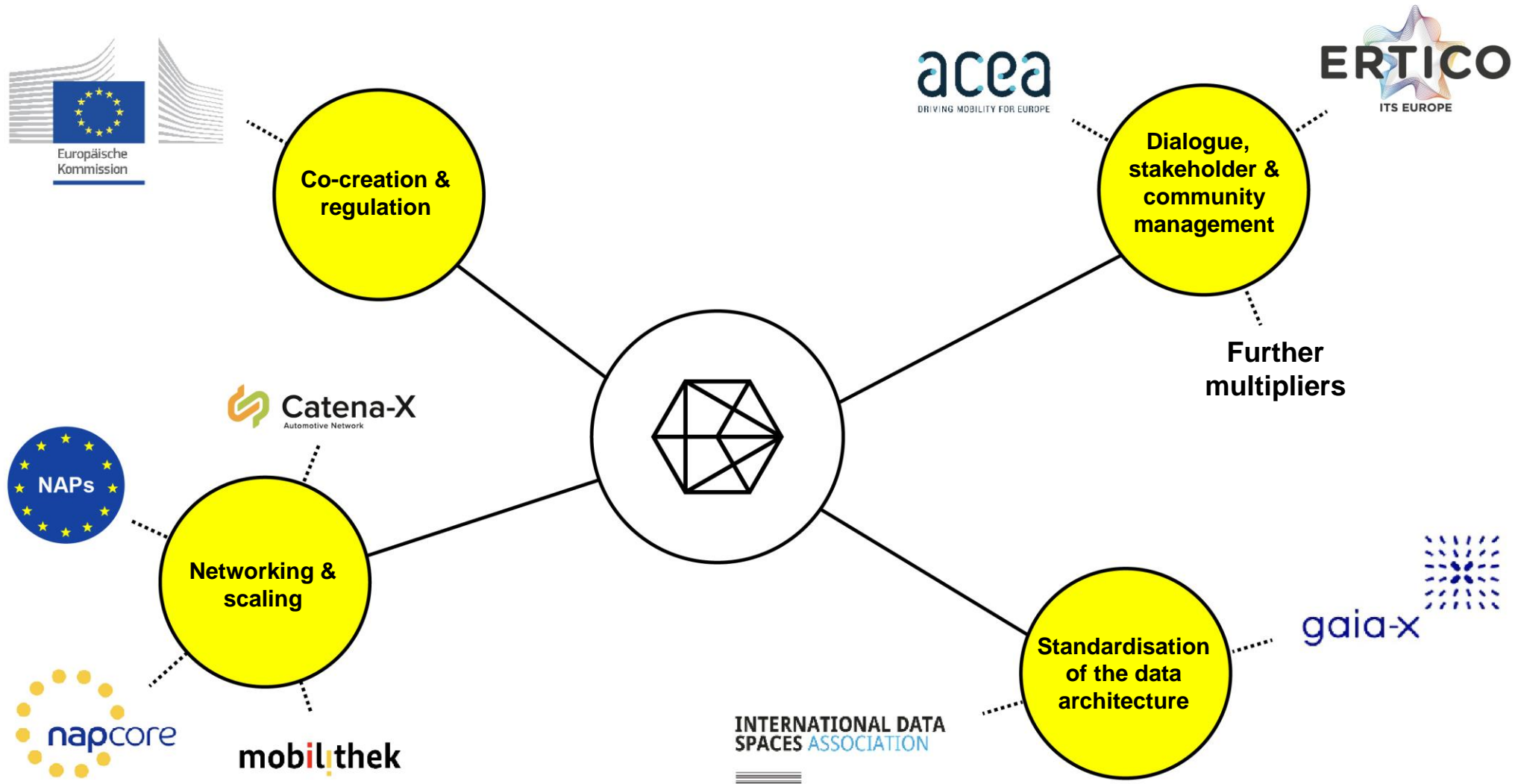
For municipalities looking to reduce parking search traffic and achieve more even use of available parking, Urban Mobility Innovations' OptiPark solution provides real-time and forecast data on parking space utilisation.



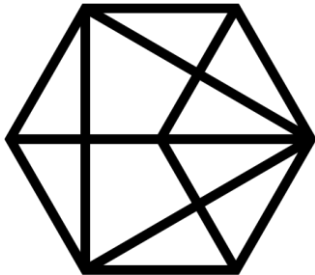
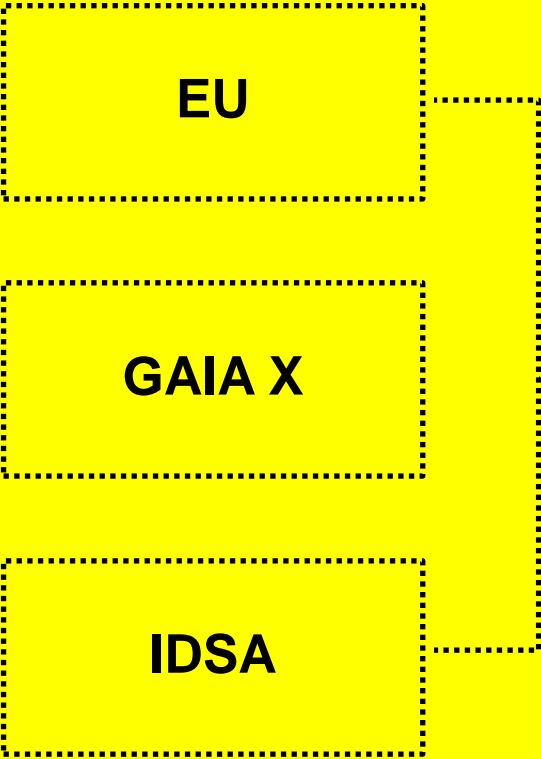
07

Objectives

Europeanisation and networking



Ecosystems of data spaces



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



DRM Datenraum Mobilität GmbH
Karolinenplatz 4
D-80333 München

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for Digital
and Transport

on the basis of a decision
by the German Bundestag