



Next step of security on the edge and in Data Spaces

IONOS

intel.

Atos

 Mobility
Data Space

truzzt

The truzzt box uses the on-chip-based Intel SGX enclave to process and ship data in federated data spaces.

truzzt box +



It ensures the highest standards of confidential processing of any data, especially sensitive data, enabling and enhancing an integrated data exchange ecosystem that connects data providers and data consumers via hardware-based controls from the web to the edge to the device.



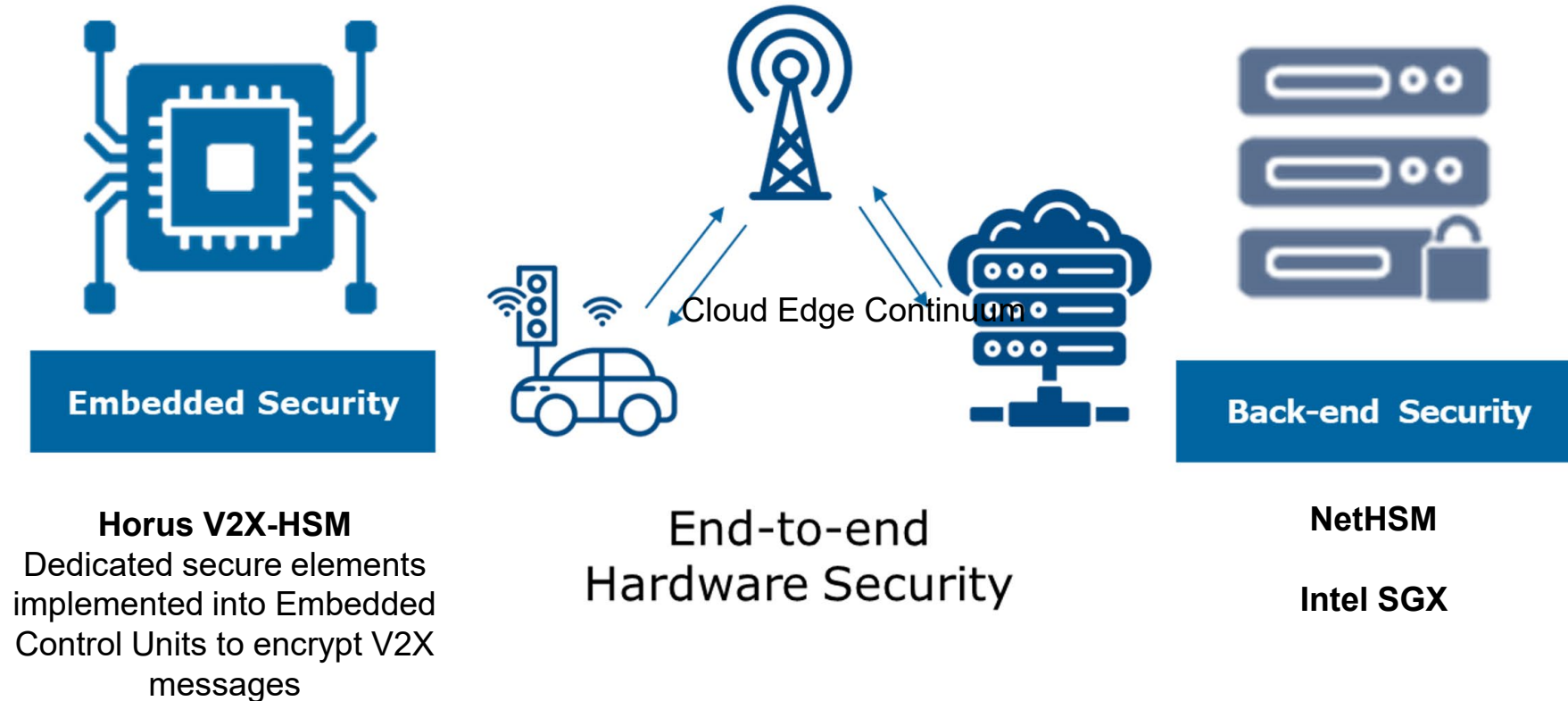
The integration of
this technology
framework as
system integrator



Klaus **Ottradovetz**

*Vice President Global Service
Delivery at Atos SE*

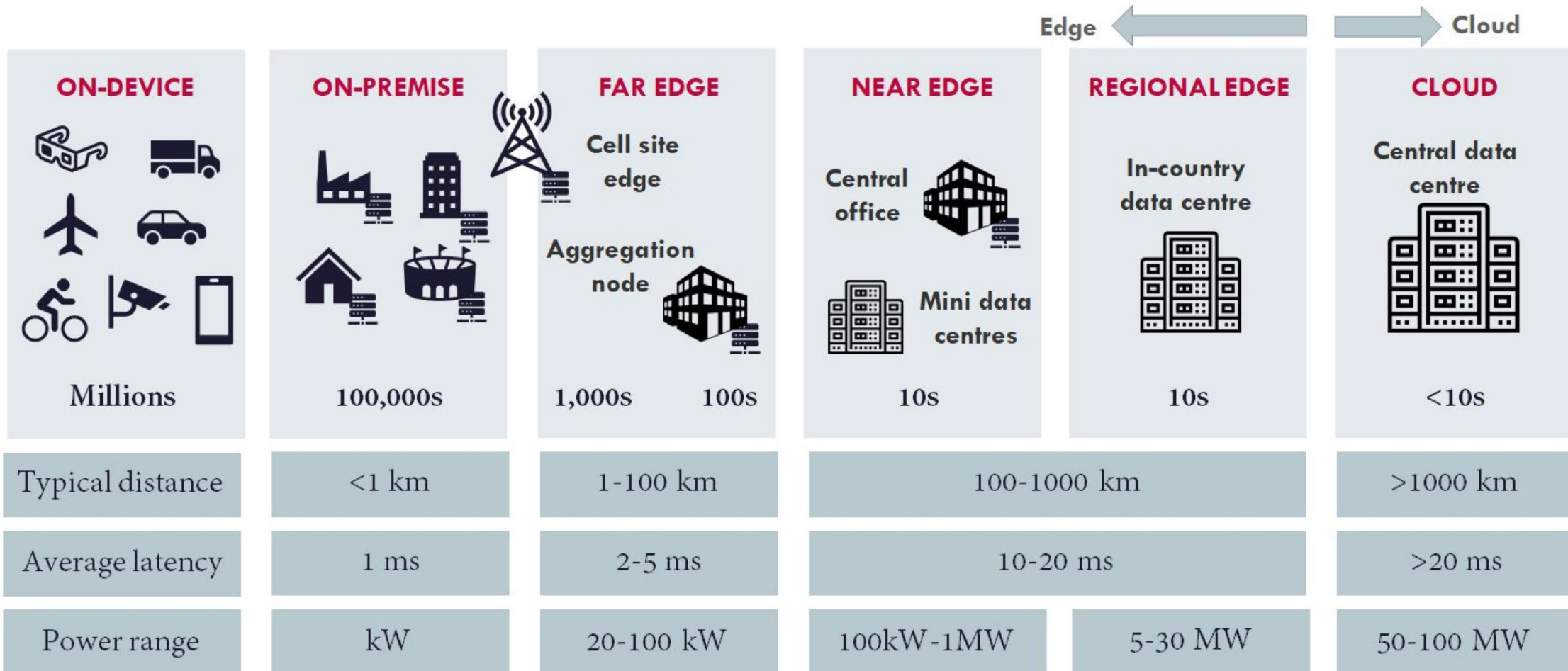
Atos: End-to-End *Hardware* Security...



Atos: ...well, rather n-to-m security...



Atos: ...even across different “device classes”...



Espressos

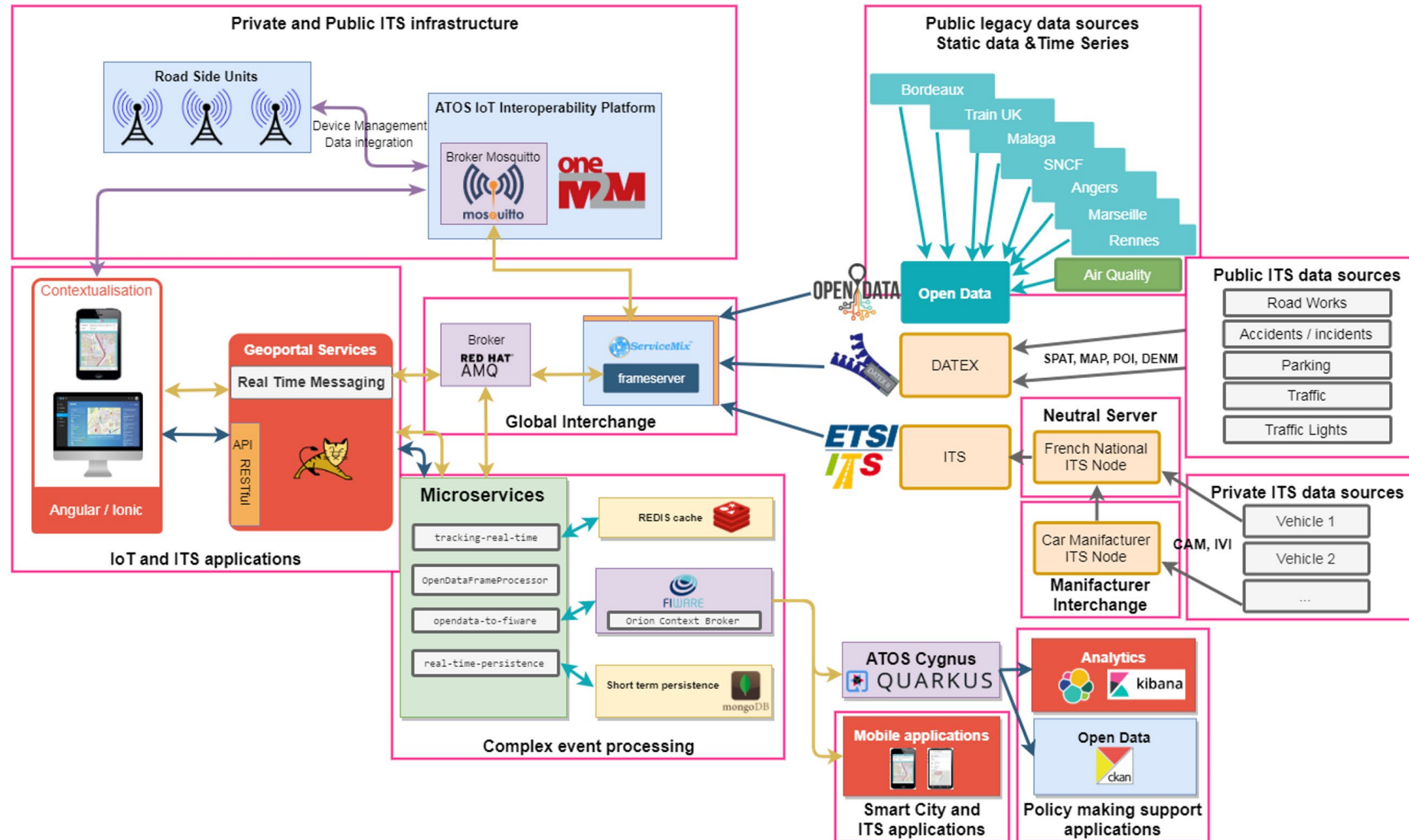
IONOS

Atos

orbiter

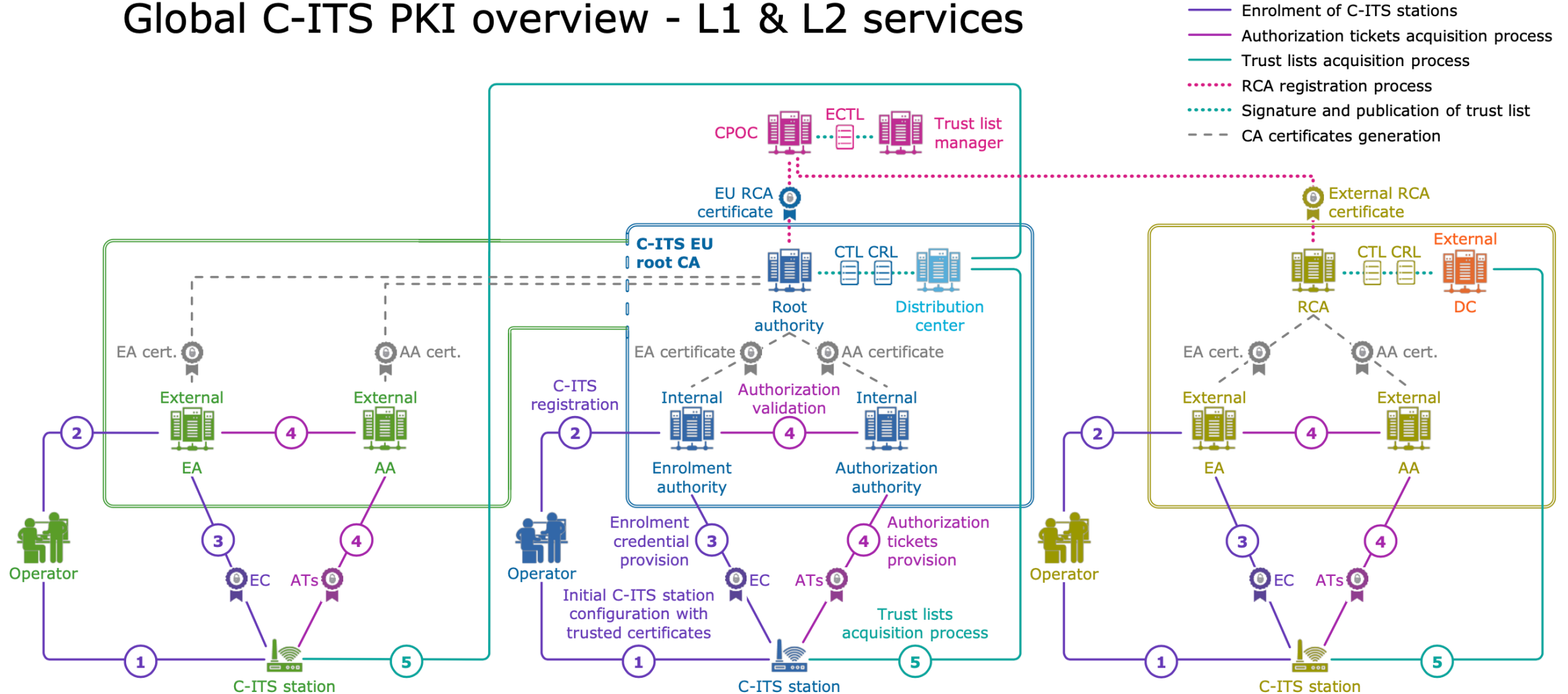
771
at-Ver

Atos: ...requires a tightly integrated frameworks...

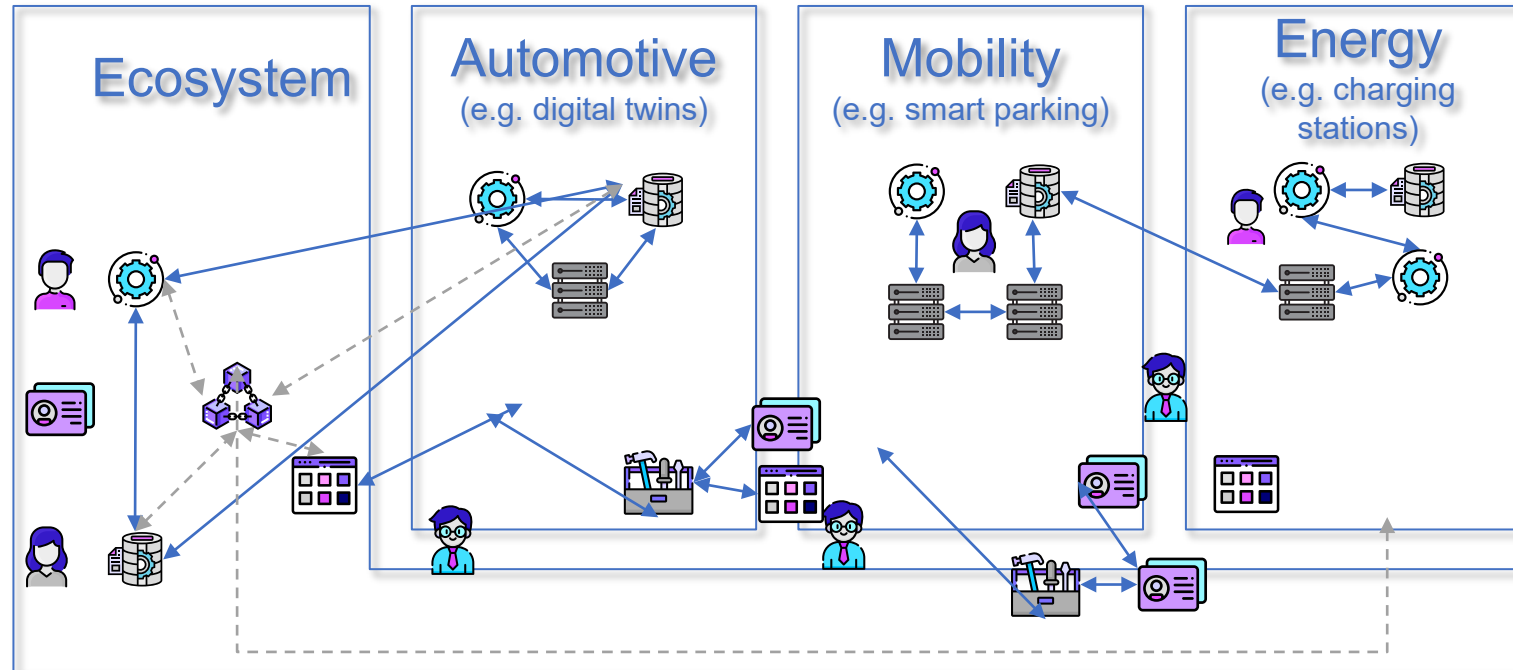


Atos: ...with distributed security architecture...

Global C-ITS PKI overview - L1 & L2 services



Atos: ...and across dataspaces and eco-systems



Gaia-X
Federation
Services
toolbox



Federator
responsible for
the Federation
Services



Ecosystems
Participants

Atos: Cloud Edge Continuum

- Applications will be distributed across devices, (different types of) Edges and clouds *and* across multiple providers
- Isolated, private and public networks need to (securely) connect
→ IT / OT (Factory shopfloor) / Mobile converge
- Scalable and performant security architecture across different device and compute classes and across networks is key to support sensitive applications
- Associations like International Data Spaces Association and Gaia-X provide the framework for trust and sovereign data-exchange



Rainer **Sträter**

*Senior Vice President, Cloud
Services and Global Platform
Hosting at IONOS SE*

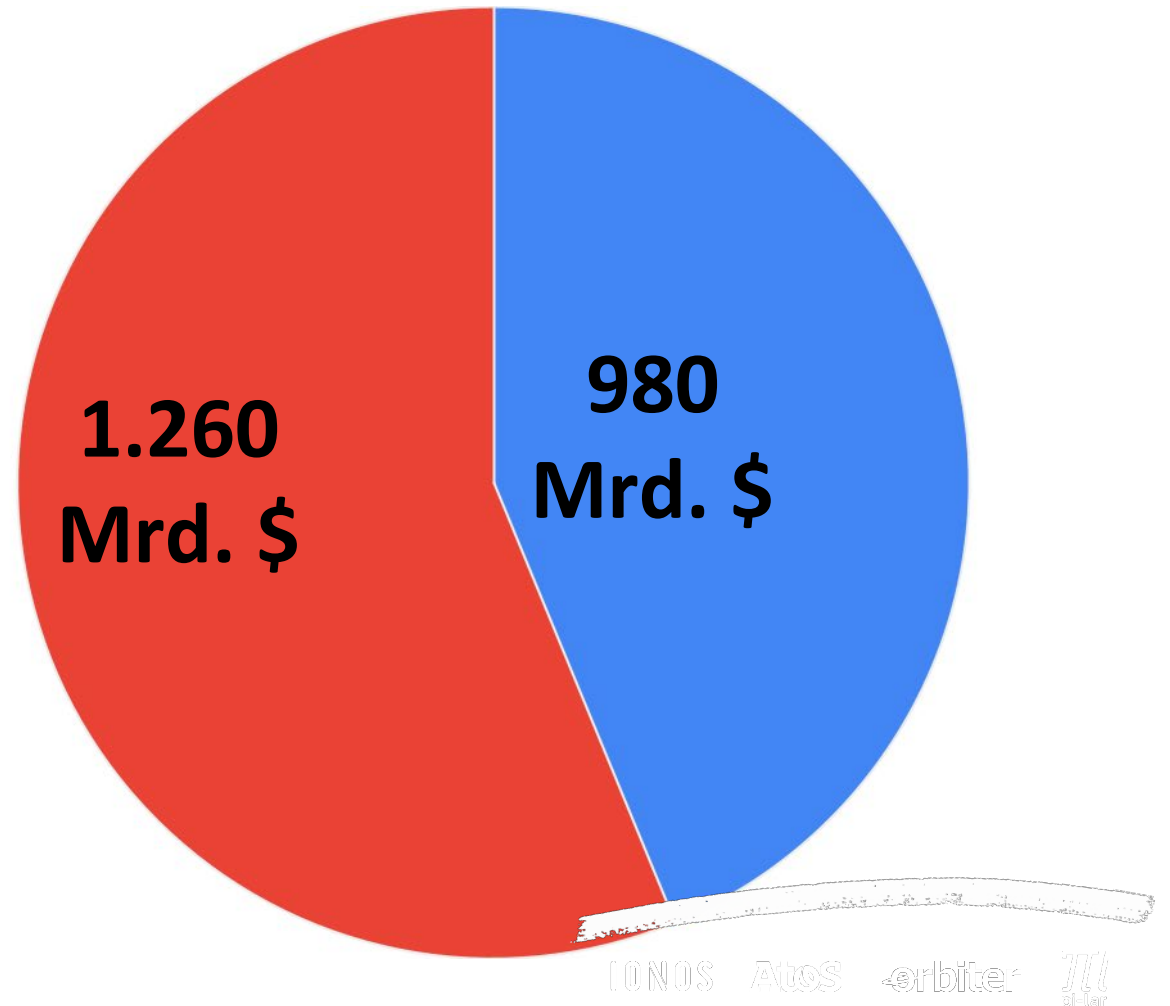
Cloud, Web and Edge secured :

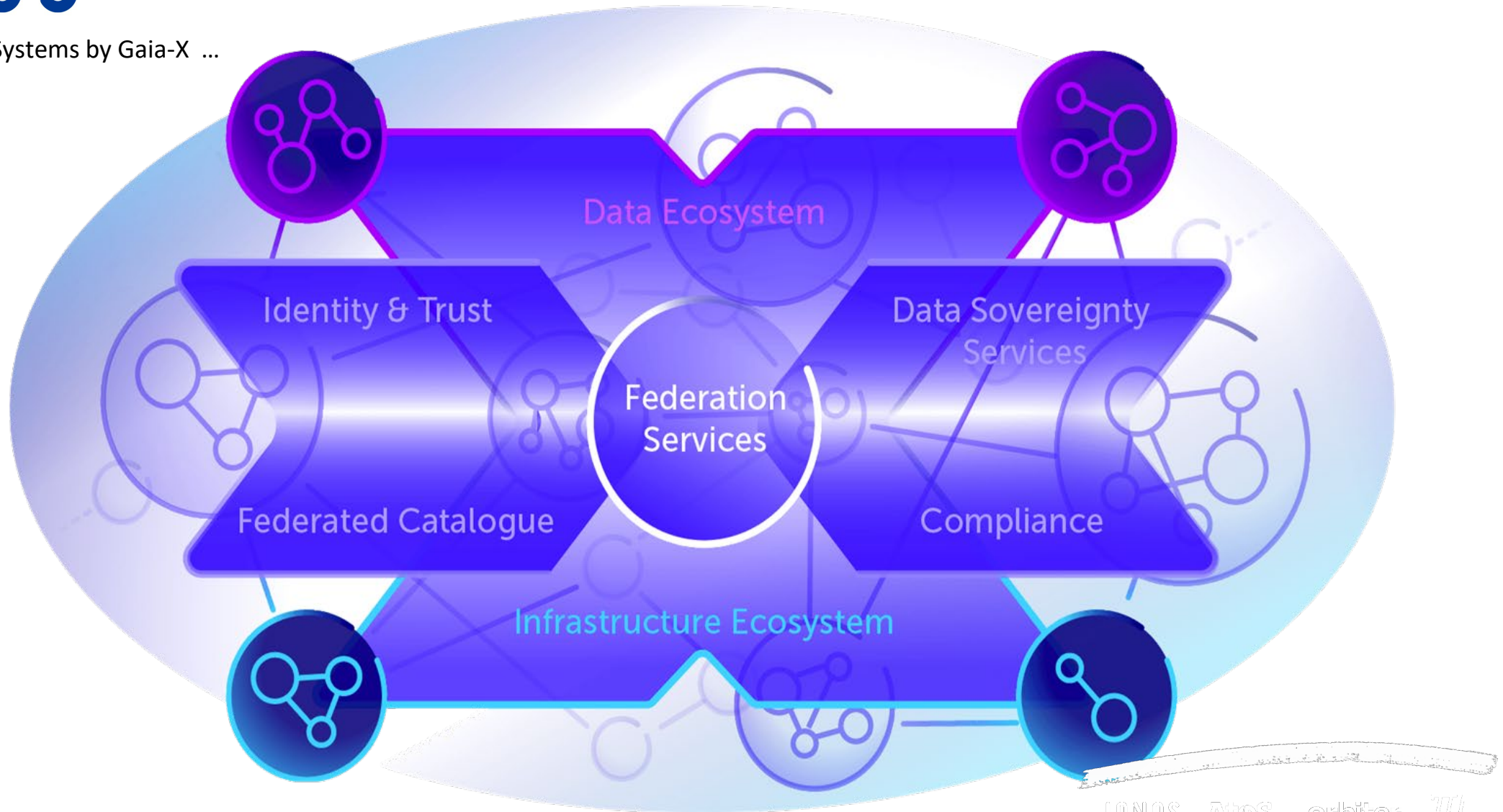
Next step in
Confidential
Computing



Tesla

20 biggest car
companies





Platforms / DataSpaces in action - 6 projects about dataspaces and technology

Name	Domain	Partners
Health-X	Health	Charite Berlin, Fraunhofer Institut, IDSA, FU Berlin...
Marispace-X	Maritim	TrueOcean, University Kiel, GEOMAR, Helmholtz...
MERLOT	Education	Imc AG, HPI, IBM, iServ GmbH, edu-sense GmbH...
POSSIBLE	Public	Bechtle AG, Dataport AöR, Scheer Institut, Univention...
OpenGPT-X	Industry	Fraunhofer, WDR, Aleph Alpha GmbH, KI Bundesverband...
TELLUS	all	DE-CIX, Trumpf, Stadtwerke Wolfsburg, Cloud&Heat...

IONOS by 1&1

DATA CENTER designer

OBJECT STORAGE object-manager

BACKUP console

MANAGER ressourcen

0

?

Rainer Sträter
rainer.straeter@ionos.com

Start CenterMDS x

Palette

Server

Cube

HDD Storage

SSD Storage

CD ROM

Internet

NAT Gateway

Load Balancer

network

Ansicht

Suchen

MDS

08.06.2022, 16:54:45

de/fra - Version 3

API

Löschen

EinstellungenInventarLANsSicherheit

Name

MDS

Beschreibung

Standort: Deutschland / Frankfurt am Main

Available Capabilities

SSD Storages

NIC Hot-Plug

NIC Hot-Unplug

Storage Hot-Unplug

Storage Hot-Plug

CPU Hot-Plug

KEINE ÄNDERUNGEN

truzzt Alliance Use Case Witte Digital:

Sharing Key and Edge Device



Hannes **Bauer**

*CEO truzzt GmbH,
hosting the truzzt Alliance*

tru~~zz~~t

I

truzzt

one

we

Reinvent



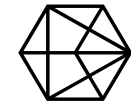
Michael **Schäfer**

*CEO of DRM Datenraum Mobilität
GmbH, operating the Mobility Data
Space Community*

Use Case Mobility Data Space:

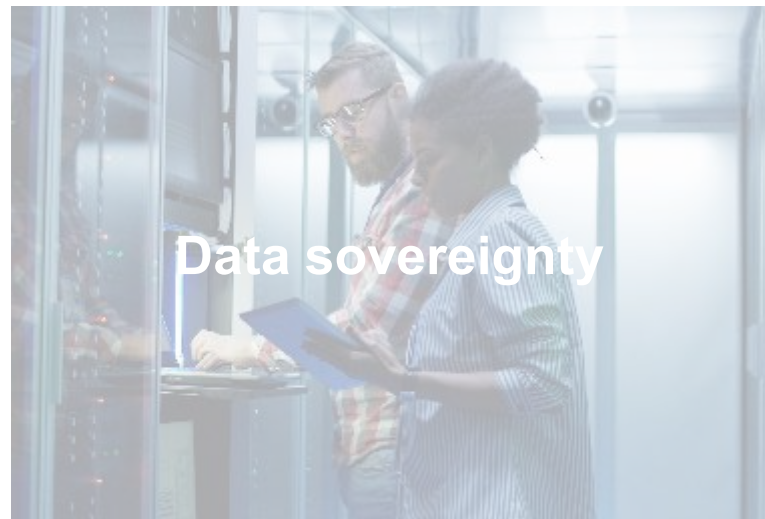
MDS as full fledged
and secured
environment for
the mobility
ecosystem

Challenges | Mobility, sustainability and security

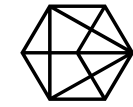


Mobility
Data Space
Data Sharing Community

truzzt

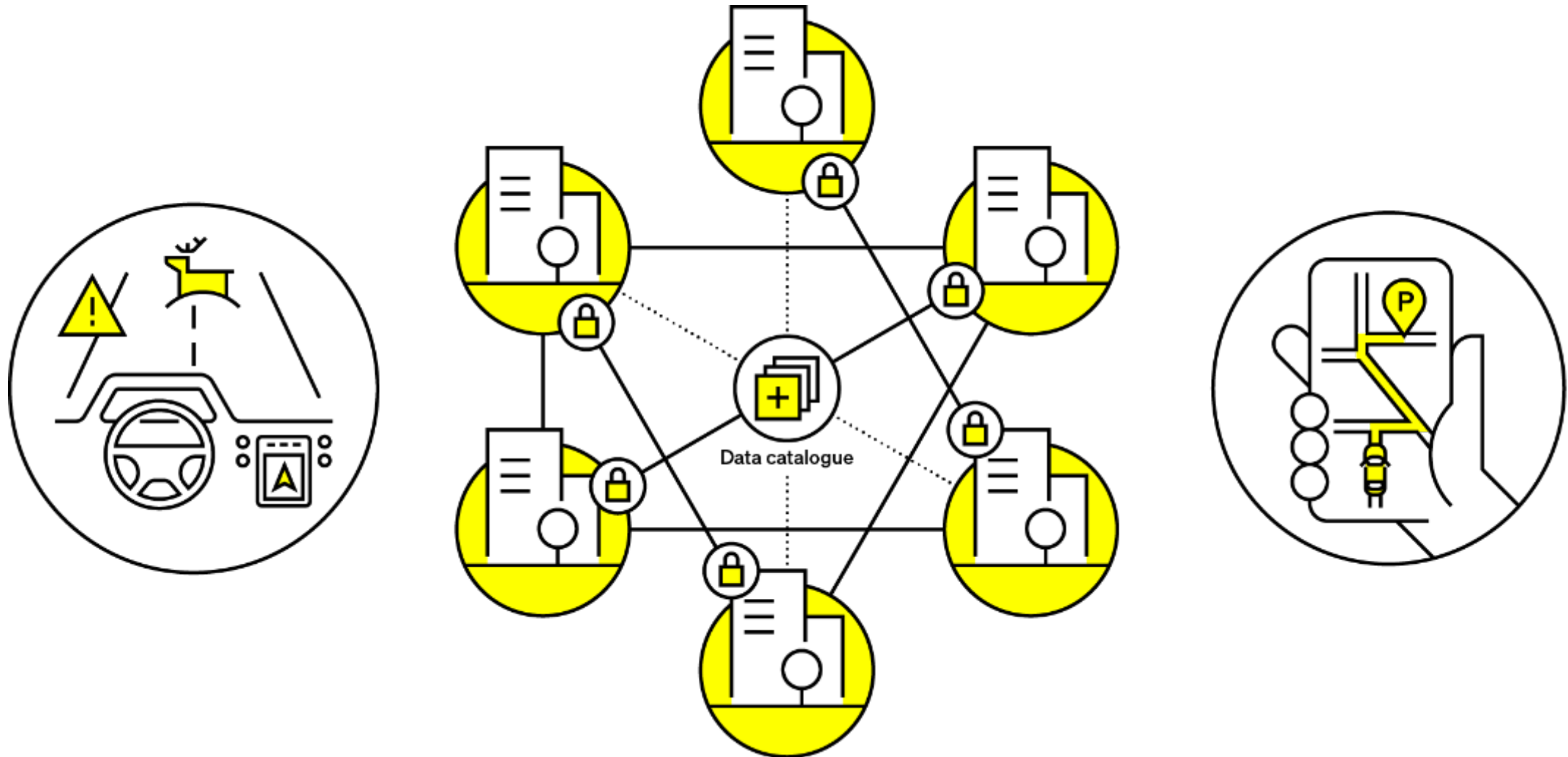


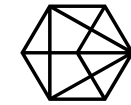
Trust & security | Trusted data transmission in Mobility Data Space: Basis for innovative products, services and business models



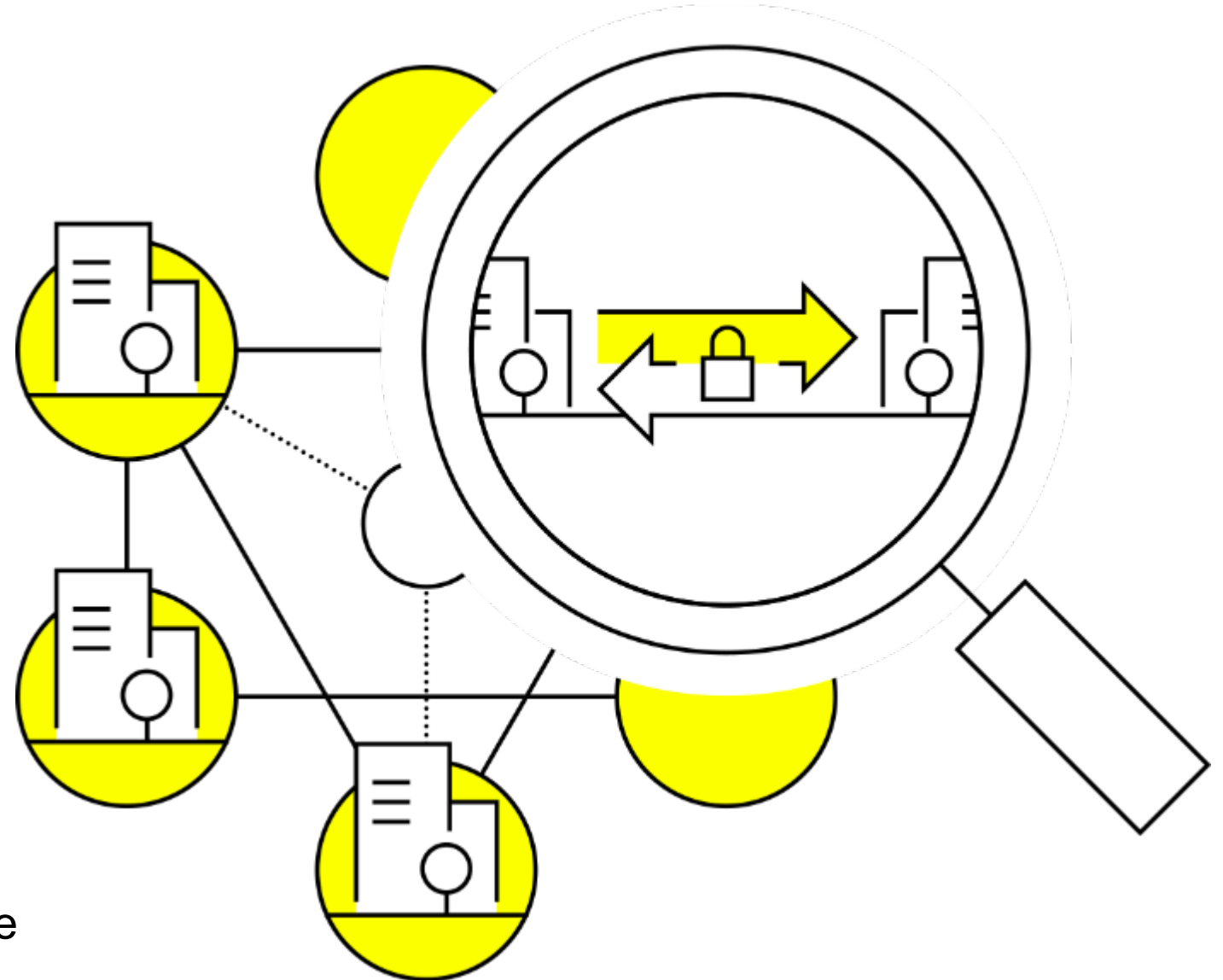
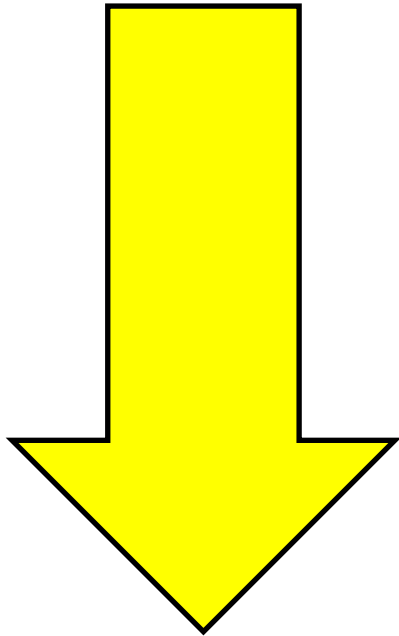
Mobility
Data Space
Data Sharing Community

truzzt



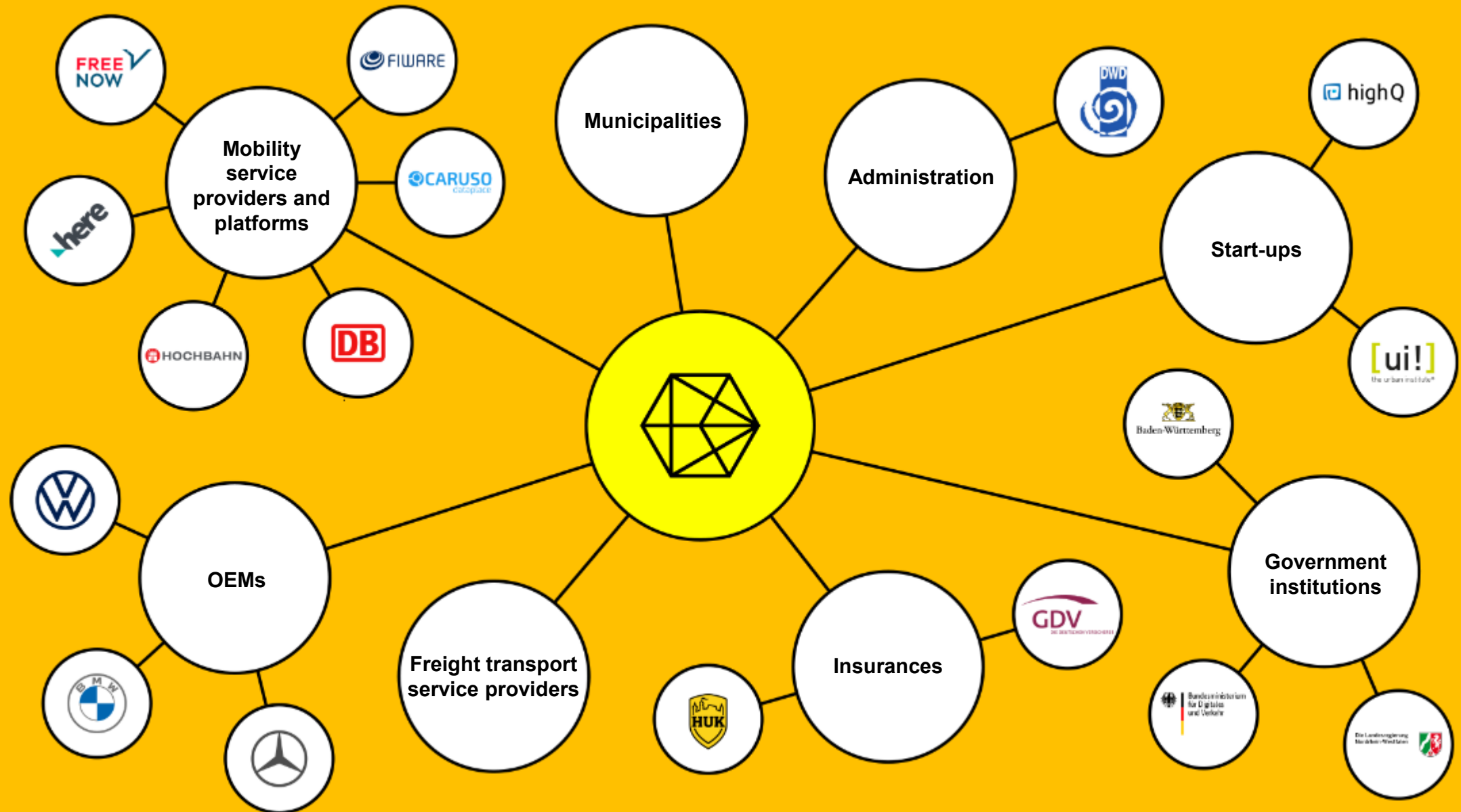


The secure space for data exchange
between partners among equals



- Trust by secured identities
- Security by secured digital infrastructure

Ecosystem | Network of strong partners (selection)



Ecosystem | Wide range of mobility available data



Traffic information



Roadworks and road conditions



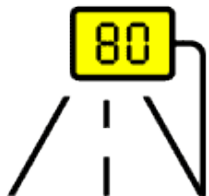
Traffic flow information



Parking information



Fuel price and electromobility



Traffic signs and speed information



Weather information



Public transport information



Car and bike sharing



Infrastructure

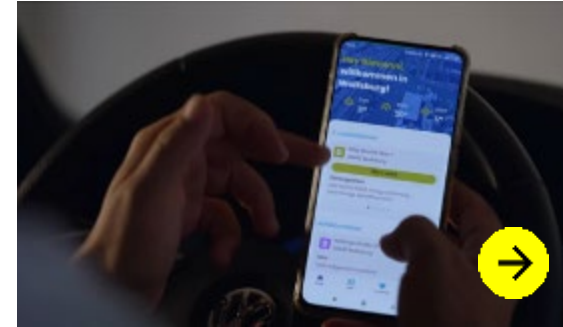
Success stories | Application scenarios fired by the Mobility Data Space



BMW
Local Hazard Information



Caruso
Sustainable use of
of electric drives



FIWARE
Smart Parking



FREE NOW
Travel mode recommendation
in accordance with weather
conditions



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

Join the Data Sharing Community

Funded by:



Federal Ministry
for Digital
and Transport

on the basis of a decision
by the German Bundestag

Wrap Up!

(Invitation to join forces)



Olaf-Gerd **Gemein**

*Business Architect, orbiter DataSpace
GmbH*