How telcos realize dataspaces to deliver benefits to end users

Life is for sharing... with data on your terms

Sven Löffler | Darmstadt 12.03.2024

T Systems

Let's power
higher performance

START MONETIZING NOW

I'm Sven Löffler

Head of Data Space & Data Products
T-Systems | Digital Enabler | Data Intelligence Hub

- 25 years + experience in business intelligence, big data, AI, and the **data economy**

- Previously: Business Development Lead at **IBM**

- Business Owner for the **Catena-X** Marketplace

- Dedicated to empower organizations for **trustful and sovereign data exchange**

Dataspace initiatives | Around the world
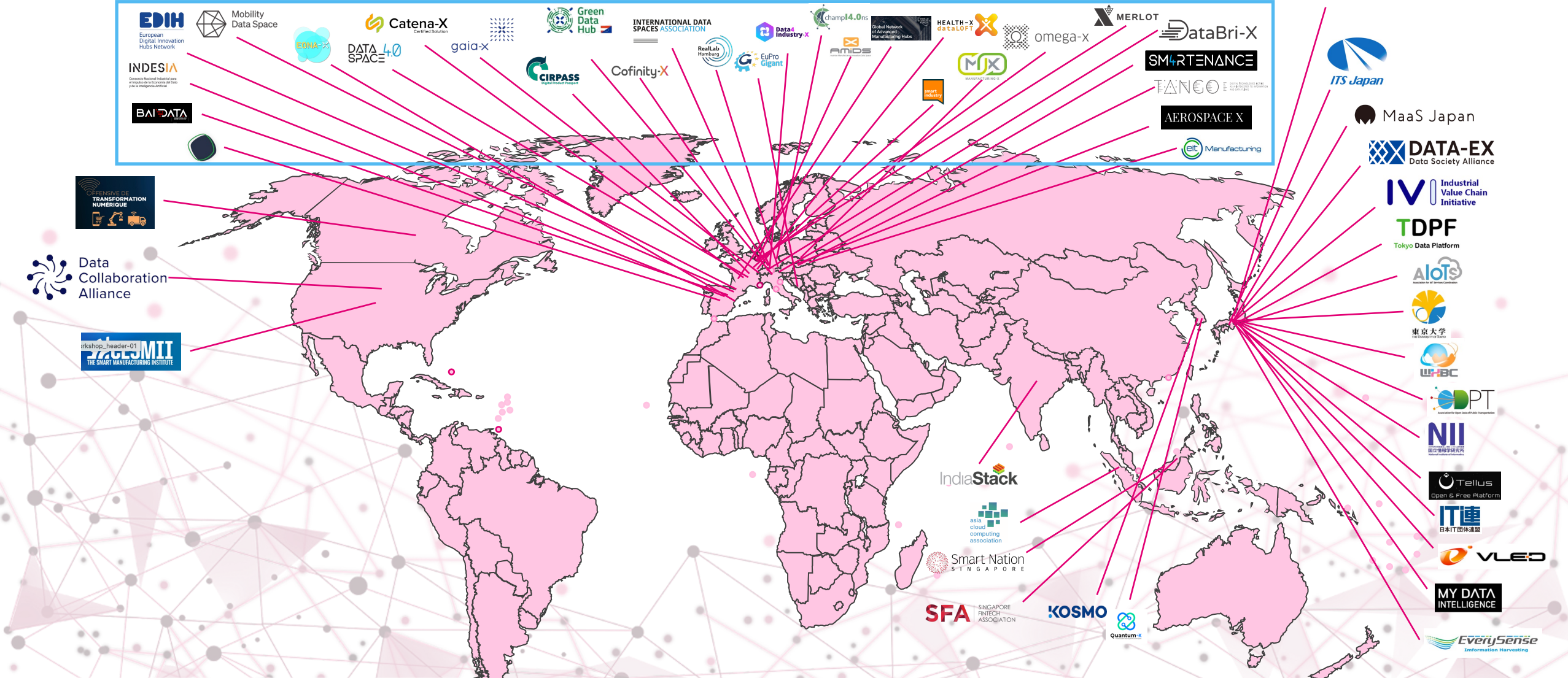
We are pioneers in dataspaces for +7 years!

2018 -

INTERNATIONAL DATA SPACES ASSOCIATION

130+ members: IDS architecture, rule book, certification, adoption ...
read more

Co-founded IDS Mobility Community, co-editor of *Next Mobility* anthology

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2019 - 2021

NPM NATIONALE PLATTFORM ZUKUNFT DER MOBILITÄT

By the German Federal Government,
6 working groups ... read more

Contributor: Identified tech/ data policy requirements for *Next Mobility*

2020 - 2021

RealLab Hamburg | **ITS World Congress HAMBURG 11 - 15 Oct 2021**

"Test-driving" *Next Mobility* in real-life:
10 projects, 32 partners ... read more

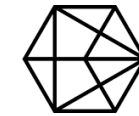Project lead: Built minimal viable IDS dataspace to enable novel intermodal travel planning demo app

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2020 -

mobilithek Mobility Data Marketplace

German National Access Point for Mobility Data ... read more

Building IDS platform 2.0
GoLive: Summer 2022
First Data Space in Germany

2020 -

Mobility Data Space

Public IDS dataspace, 20+ use cases ...read more

Contributor of use cases, consulting on operations

2020 -

DaW I D

Federal Ministry of Education & Research

Human digital twin and data monetarization with sovereignty ... read more

Partner: Build IDS dataspace, broker, end user cockpit

2021 -

gaia-x · **T**

Founding partner

Launched by German, French governments
Chairman of board and COO

2021 -

Catena-X Automotive Network

Top auto companies, 8 pioneers, 28 partners: BMW, Daimler, VW ...
read more

Epic Owner, Product Manager, Product Owners: Design, build Gaia-X/ IDS dataspace & service ecosystem
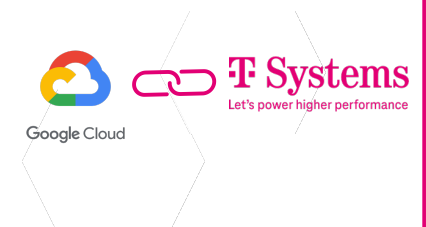

2022 -

esa European Space Agency · **Copernicus**

Data Space Ecosystem powering one of the world's largest data collections initiatives focused on collecting data samples from Earth's surface as well as the atmosphere...read more


2022 -

Cloud Sovereignty. First Move.

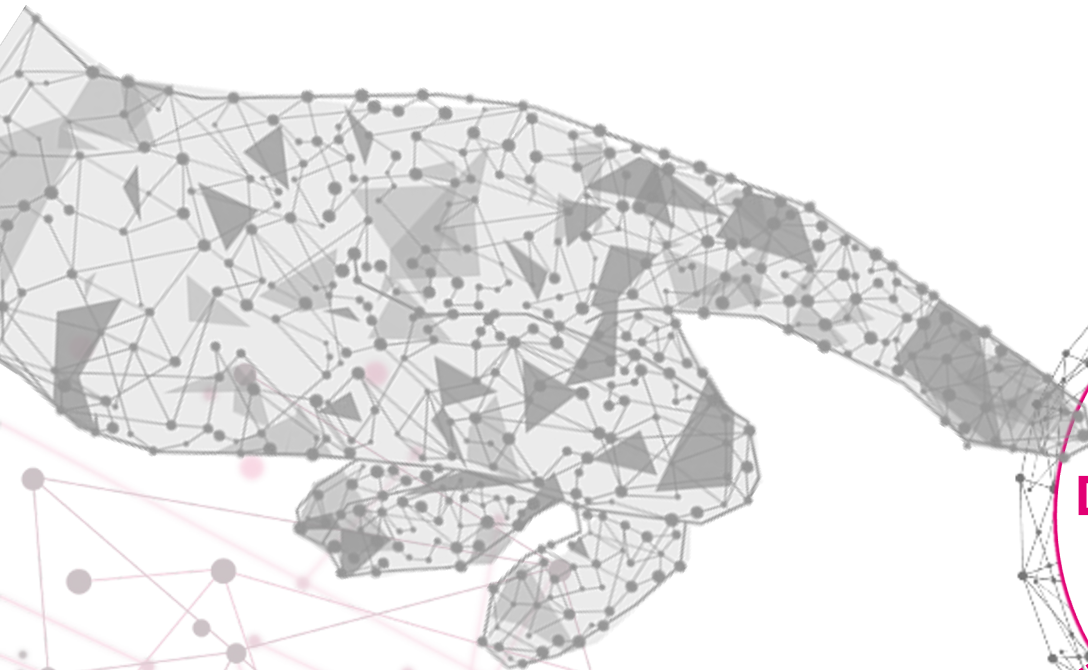Google Cloud · **T Systems** Let's power higher performance

T-Systems & Google Cloud partner to deliver sovereign cloud [... read more](read more)

Telekom Data Intelligence Hub and Smart Mobility

Mobility microsite: https://dih.telekom.com/en/data-move-people

T-Systems tailor-made dataspace offerings

Data Intelligence Hub
powered by
T··Systems·

Google Cloud · aws · Azure
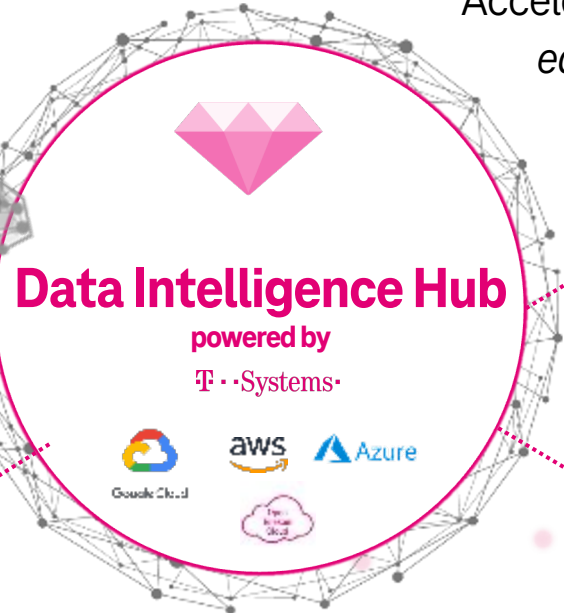
1 Advisory
Accelerator packages for *easy onboarding*

"Be prepared"

2 Products
Flexible dataspace & cloud *Products-as-a-Service*

"Get connected"

3 Ecosystem
Build, grow & nurture *your own* dataspaces data products (e.g., Motion data)
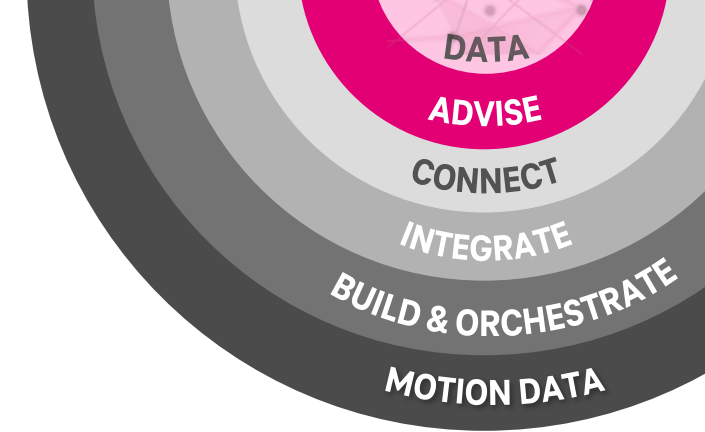
"Build & orchestrate on *your* terms"

T··Systems· DATA INTELLIGENCE HUB

01

Learn, operate and scale with our advisory packages - *be prepared*

Advisory | Implementation

What's in for you?

Dataspace 101	**Connect & Integrate**
Dataspace Governance	**App Design & Prototype**

DATA
ADVISE
CONNECT
INTEGRATE
BUILD & ORCHESTRATE
MOTION DATA

Modular Concept:

- **Technical** Four modules to customize your workshop experience
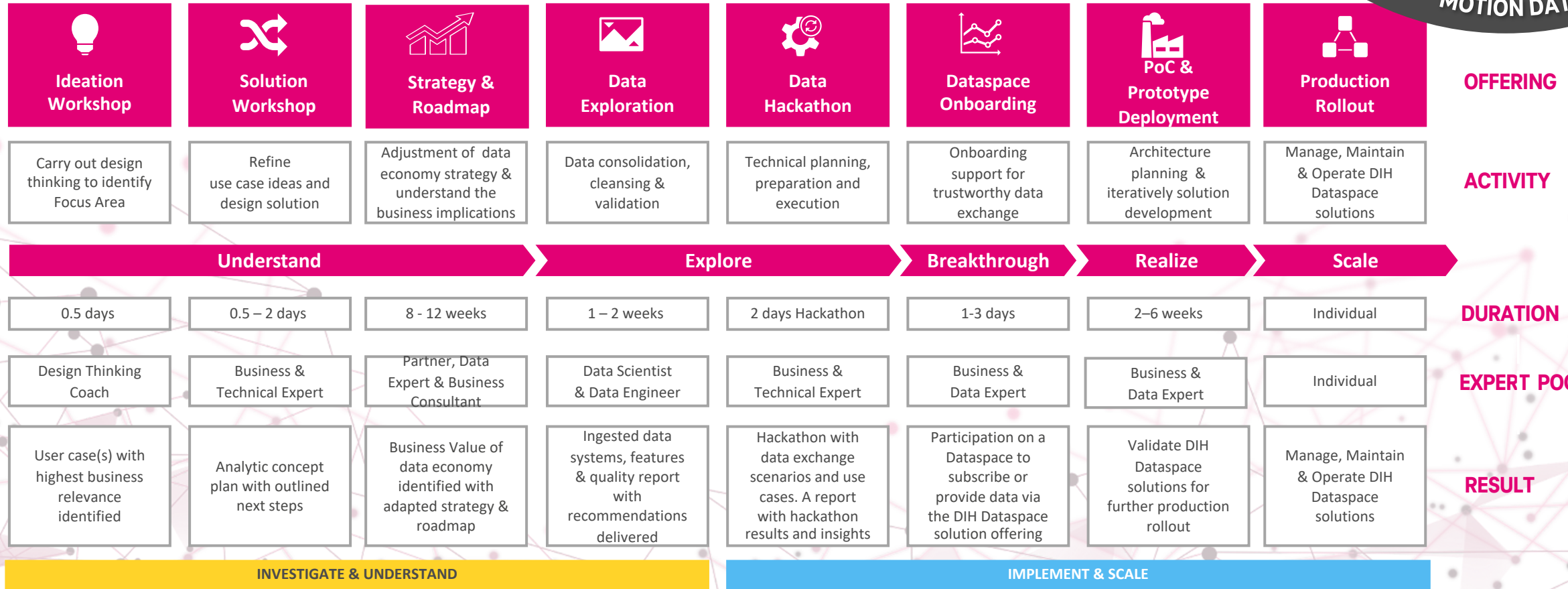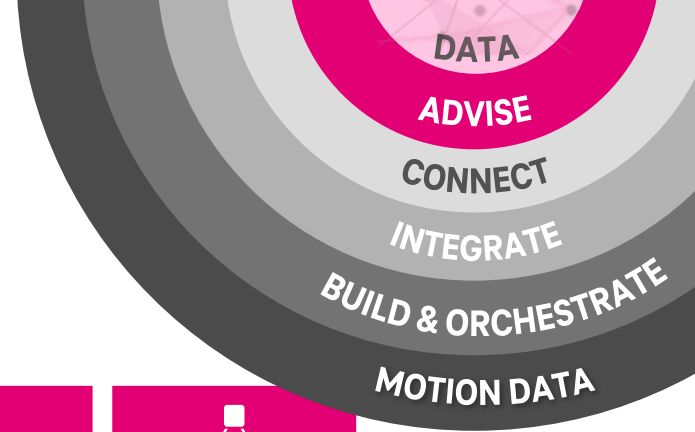
Duration:

- **Technical** 1-3 Days

What you will learn:

- **Technical knowhow** on leading dataspaces and dataspaces in general
- **Value creation** within dataspaces
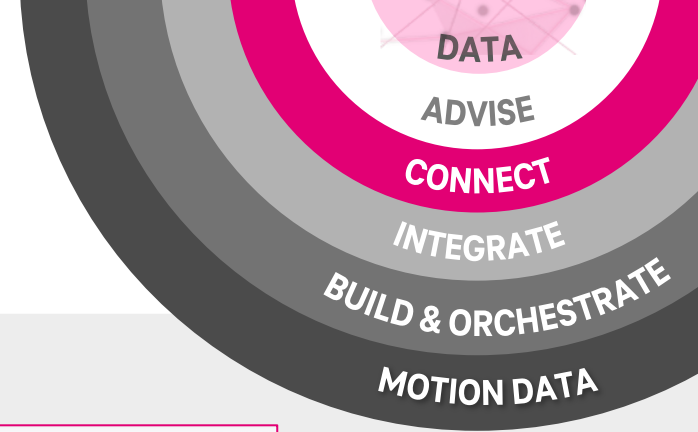- Interactive **deep dives** to identify challenges and solutions for your **individual needs**

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Advisory | Onboarding acceleration

DATA · ADVISE · CONNECT · INTEGRATE · BUILD & ORCHESTRATE · MOTION DATA

	Ideation Workshop	Solution Workshop	Strategy & Roadmap	Data Exploration	Data Hackathon	Dataspace Onboarding	PoC & Prototype Deployment	Production Rollout
OFFERING	Ideation Workshop	Solution Workshop	Strategy & Roadmap	Data Exploration	Data Hackathon	Dataspace Onboarding	PoC & Prototype Deployment	Production Rollout
ACTIVITY	Carry out design thinking to identify Focus Area	Refine use case ideas and design solution	Adjustment of data economy strategy & understand the business implications	Data consolidation, cleansing & validation	Technical planning, preparation and execution	Onboarding support for trustworthy data exchange	Architecture planning & iteratively solution development	Manage, Maintain & Operate DIH Dataspace solutions
(Phase)	Understand	Understand	Understand	Explore	Explore	Breakthrough	Realize	Scale
DURATION	0.5 days	0.5 – 2 days	8 - 12 weeks	1 – 2 weeks	2 days Hackathon	1-3 days	2–6 weeks	Individual
EXPERT POOL	Design Thinking Coach	Business & Technical Expert	Partner, Data Expert & Business Consultant	Data Scientist & Data Engineer	Business & Technical Expert	Business & Data Expert	Business & Data Expert	Individual
RESULT	User case(s) with highest business relevance identified	Analytic concept plan with outlined next steps	Business Value of data economy identified with adapted strategy & roadmap	Ingested data systems, features & quality report with recommendations delivered	Hackathon with data exchange scenarios and use cases. A report with hackathon results and insights	Participation on a Dataspace to subscribe or provide data via the DIH Dataspace solution offering	Validate DIH Dataspace solutions for further production rollout	Manage, Maintain & Operate DIH Dataspace solutions

INVESTIGATE & UNDERSTAND | IMPLEMENT & SCALE

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8

02
Providing dataspace products as-a-Service
## - *get connected*

Connect | Your access to dataspaces

Target Group

Any dataspace participant – companies small, medium and large

Features

- **Auto-setup:** Automatic provision and configuration into Catena-X on **any cloud**

- **Catena-X certified** managed solution, **IDSA certified** & **Gaia-X compliant** services

- Advanced **data usage control** and policy setup, management and negotiation

- **Trust ensured** by Deutsche Telekom's independent and **secure global network**

- Fully supportive of Catena-X **Managed Identity Wallet (MIW)** and **distributed Digital Twin Registry (dDTR)**

- **Sovereign Plus:** to offer data stored in the T-System Sovereign Cloud (end-to-end sovereignty protection)
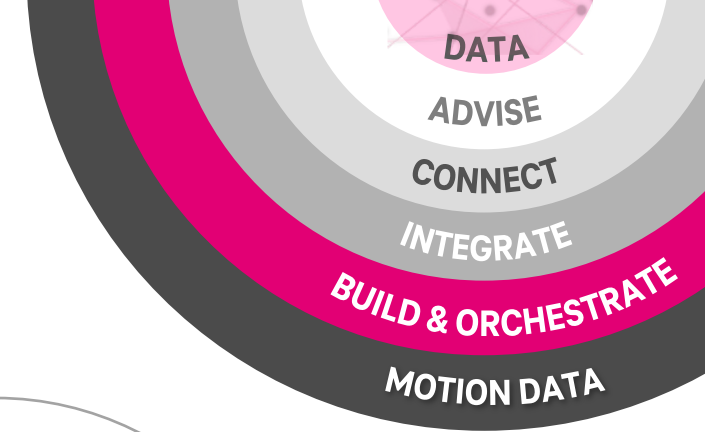

T **Systems** ◆ **DATA INTELLIGENCE HUB**
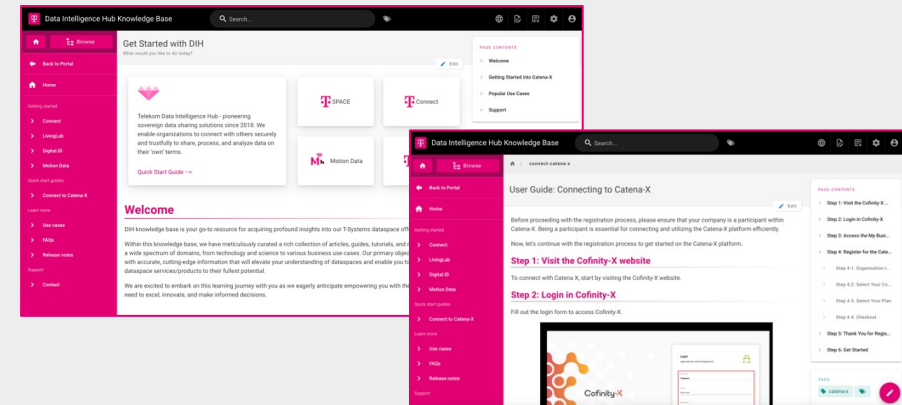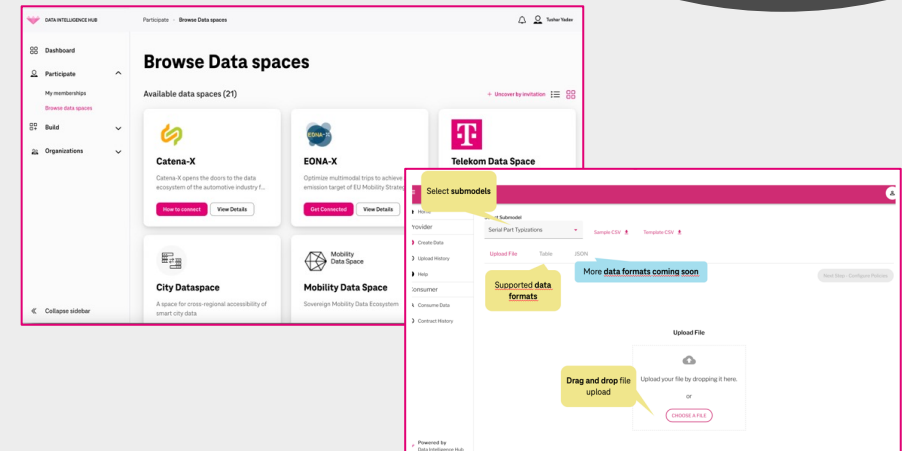
03

Nurture your data products - *Build and orchestrate on your own terms*

Build & Orchestrate | Market's First Trust Service

DATA
ADVISE
CONNECT
INTEGRATE
BUILD & ORCHESTRATE
MOTION DATA

Trusted Data Sources

- **VAT ID:** for the European member states or North Ireland, the VAT Information Exchange System (VIES)

- **EORI:** registration and identification of economic operators in the European Union

- **LEI Code:** the Global Legal Entity Identifier (GLEIF) with worldwide coverage

- **Local Commercial Registration Number** opencorporates

Validation Service: validation of companies' legal commercial registration numbers & European financial transaction identifiers

Gaia-X Compliance Service: validates the shape, content and credentials of self-descriptions attesting the result of the Gaia-X compliance proof
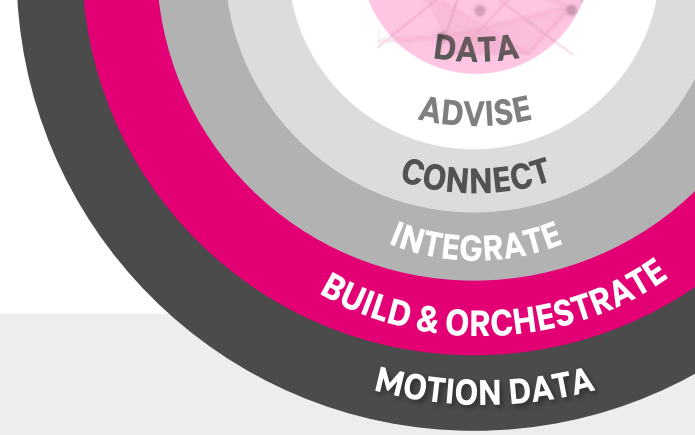
Notarization Service: adds **eIDAS** conform digital signature by **Telekom Security**

Gaia-X Registry Service:
list of valid shapes, as well as valid and revoked public keys

Business Reporting Service: reporting of successful and rejected validations

DIGITAL.ID

VC

Reference project: Catena-X Automotive Network

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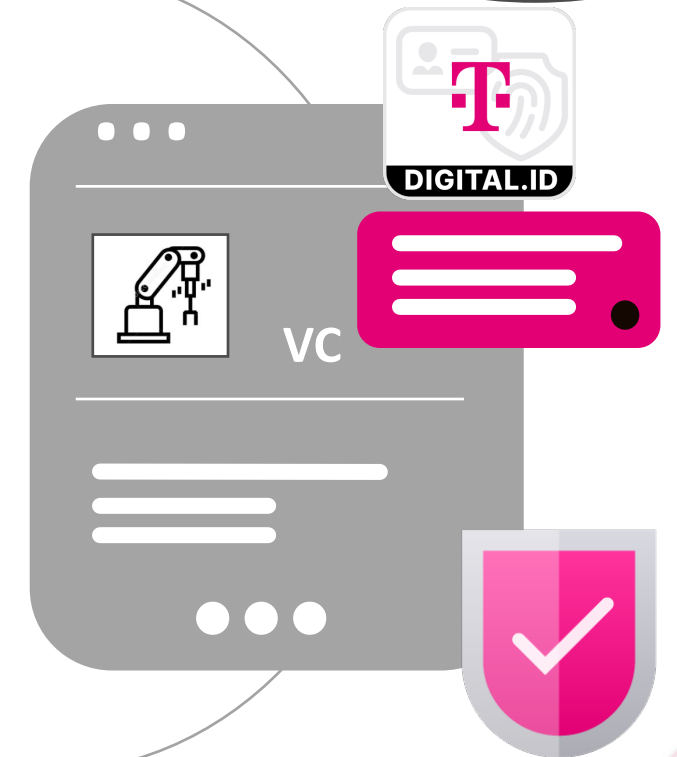
Build & Orchestrate | App Development

DATA
ADVISE
CONNECT
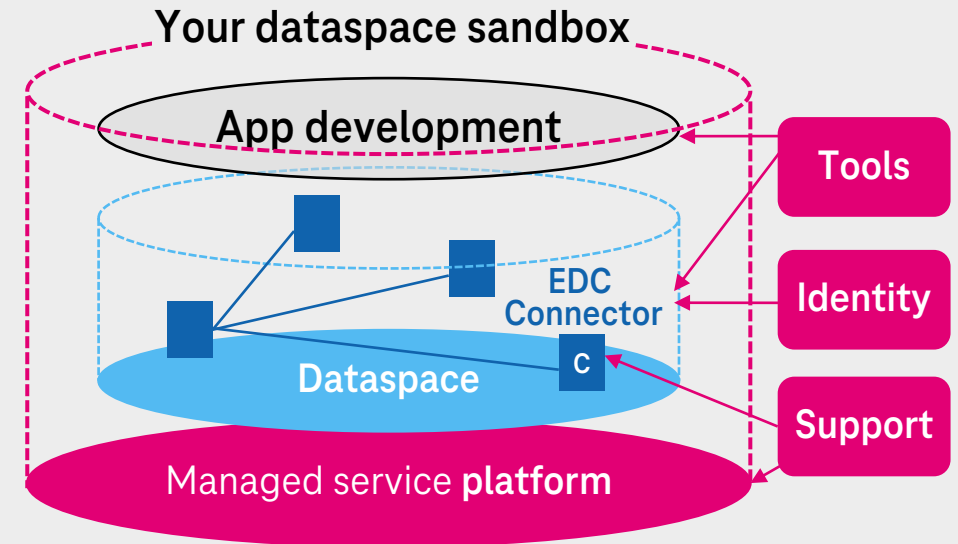INTEGRATE
BUILD & ORCHESTRATE
MOTION DATA

## Target Group
Companies of all sizes
App Builders

Features

- Upgrade existing apps or create new to **benefit from data products**
- **You focus on your apps** - we maintain the dataspace that powers it
- Based on Semantic Web technology for dataspaces
- managed service with minimal effort
- **Support** for **App conceptualization** (e.g. semantic modelling) and development (e.g. frontend design)

Your dataspace sandbox

App development

Tools

EDC Connector

Identity

Dataspace

c

Support

Managed service **platform**

Speed up time to market with best-in-class data sovereignty protection

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13

Build & Orchestrate | Digital.ID in Action
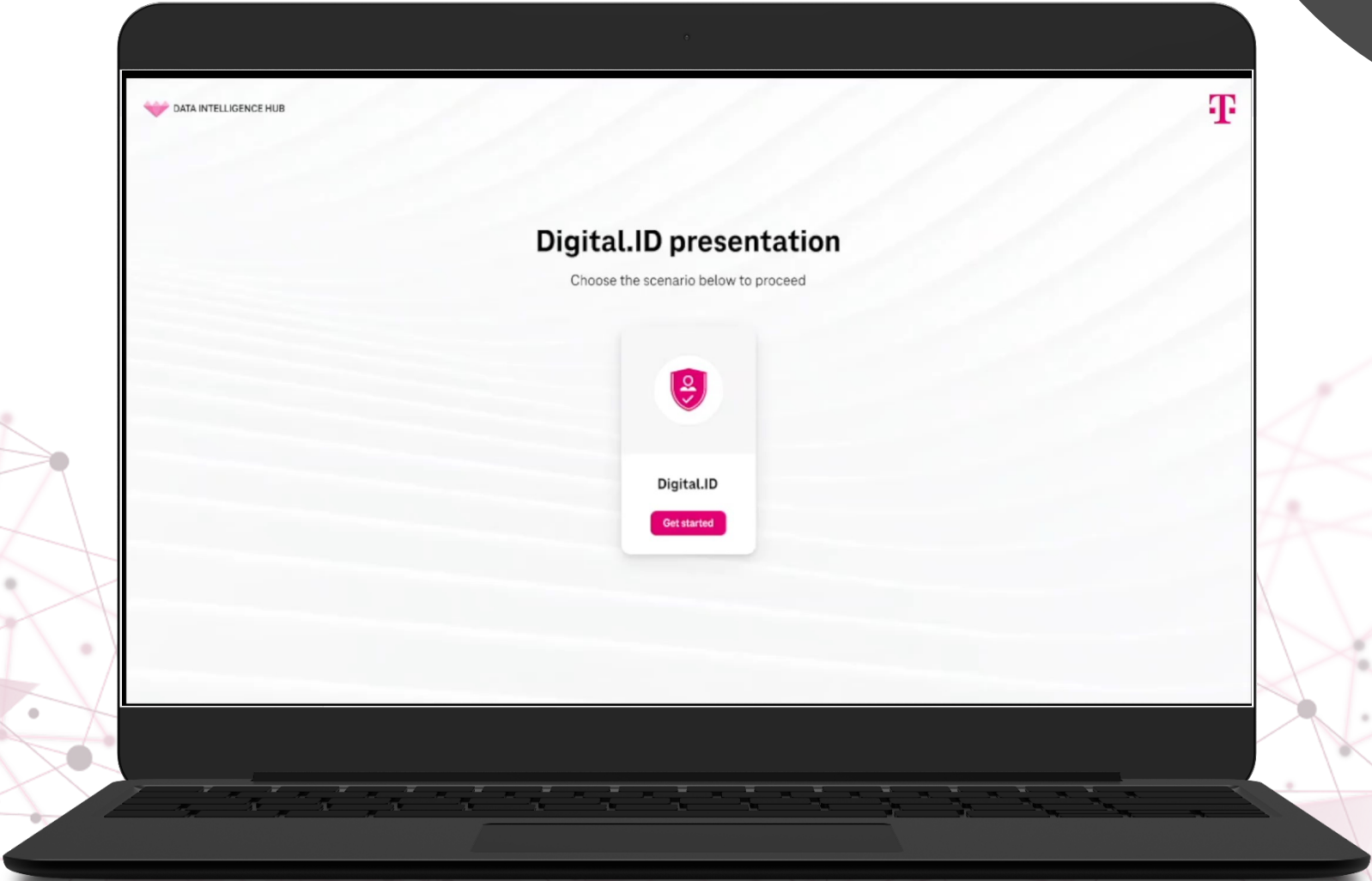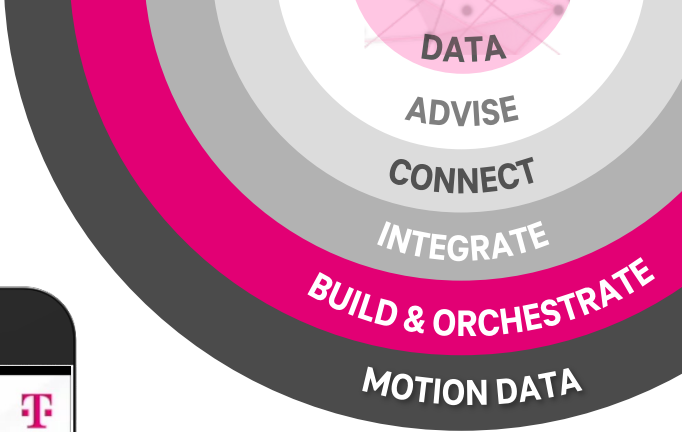
Customer Success | References
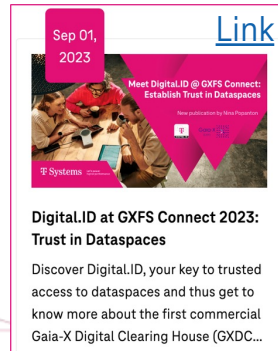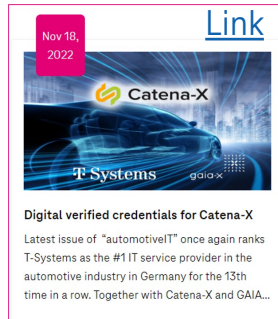
Digital.ID

Challenge
- Automotive sector needs to data-driven value chain
- Secure identities and data sovereignty
- Catena-X follows Gaia-X guidelines to build a trusted data infrastructure
- Verifying credentials of participants in Catena-X
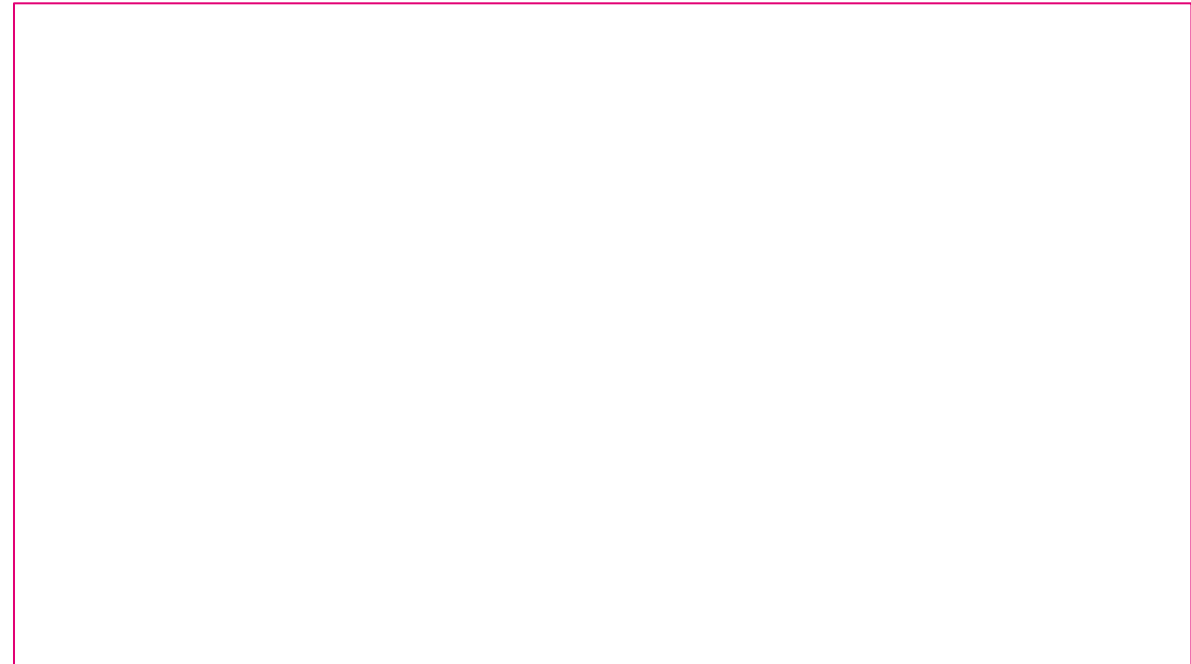
Solution
- T-Systems as Gaia-X Digital Clearing House Node, serving as a Trust Anchor
- Beyond eIDAS certificates, T-Systems validates commercial registration and tax numbers
- Company receives verified credential for the Catena-X – similar to an ID card

Customer benefits
- Digital.IDs provide a trusted proof of authenticity
- Trustworthy framework compliant with Gaia-X regulations
- Trusted and secure data exchange in the largest sovereign ecosystem operated by both automotive manufacturers and suppliers built on trust

Link

Nov 18, 2022

Digital verified credentials for Catena-X

Latest issue of "automotiveIT" once again ranks T-Systems as the #1 IT service provider in the automotive industry in Germany for the 13th time in a row. Together with Catena-X and GAIA...

March 20, 2023

Press releases

Market-X Conference & Expo: Gaia-X Digital Clearing House (GXDCH) a success for the industry

Link

Sep 01, 2023

Meet Digital.ID @ GXFS Connect: Establish Trust in Dataspaces

Link

Digital.ID at GXFS Connect 2023: Trust in Dataspaces

Discover Digital.ID, your key to trusted access to dataspaces and thus get to know more about the first commercial Gaia-X Digital Clearing House (GXDC...

Our references

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15

Thank you!

Now ask me anything....

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Let's power
higher performance

Next step **I** Contact us

Stay active...

...start your dataspace journey with us!

Visit our website!

Sven Löffler

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Intelligence Hub

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