First time value derivation made possible by the trusted Catena-X data space - example circularity -

Catena-X Standards & Artifacts ( )
connect partners, streamline flow of information and enable scalable value derivation.

Fast Facts

100 billion
Tons of material resources consumed annually

< 9%
of resources are recycled or reused

~ 30%
Secondary material ratio per vehicle

$4 Trillion
Demand for battery materials up to 2050.

dis-connected
industry partners

Trusted Material Accounts manage material flow and reduce costs

Network Builder completes the value chain by connecting Partners

Circularity Dashboards (SRQ / CO_2) recommend optimal R-Strategies

Tier-n

Tier-2

Tier-1

OEM

Dealer / Customer Usage

Dismantler

Recycler

Digital Product Passports capture and carry rel. information end to end

Material Market Places create a 2nd Material Supply Chain & allow prediction of supply scenarios

Industrie Connectors allow exchange of data and material with other sectors

other industries

The Catena-X ecosystem and its core components

Provider of
Software, Services and more

Operating Area
based on web3 principals

Operating System / Model
De-central, open source based data space foundation

Operating Model **2** T&C

Operating System **3** KIT

Network of Network **KIT**

Exchange & Connector **KITs**

... more to come

Business Domain KITs
Standards & artifacts for an open, interoperable, multi-vendor solution portfolio

Sustainability Domain **KITs**

Resiliency Domain **KITs**

PLM / Quality Domain **KITs**

onBoarding KITs
Standards & artifacts to boost adoption and community building

onBoarding **PROCESS**

SME onBoarding **WIZARDS**

my **TUTOR**

... more to come

Business Solution Area
Interoperable & boosted apps

Real PCF

GP - Golden Record

OSim

Live Quality Loops

Circularity

Lieferketten Gesetz

Traceability

Demand Capacity

next big thing

App Provider

onBoarding Support
Boost adoption (esp. SME)

New scalable solution portfolio

Service Provider

New business value / opportunity
Operators / ...

Data Provider

Apps

Data Space

Services

Data Consumer

New business value / opportunity

Data-Consumer / Provider

Business Area
Large / Small Org.

OSS Communities

COMPLIANCE **CAB**

Neutral Governance   e.V.

gaia-x

Industry
OEM, Supplier, Recycler, ...

The Catena-X eco system is ready to be GAIA-X compliant and goto Market
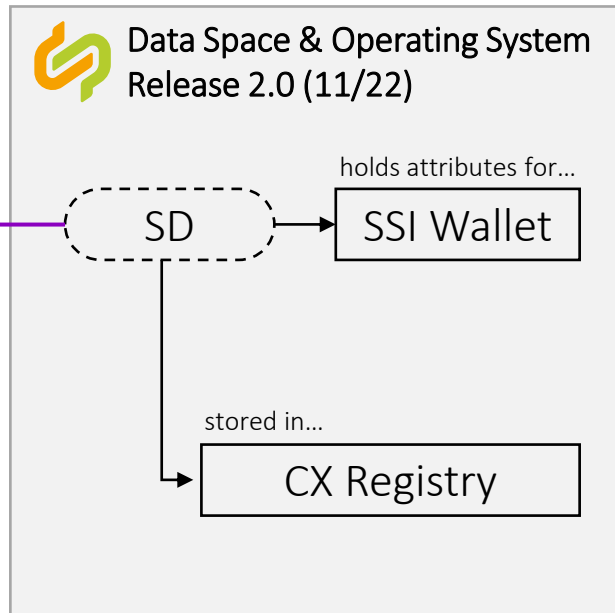
Data Space & Operating System Release 2.0 (11/22)

holds attributes for...

SD → SSI Wallet

stored in...

CX Registry

according to
Trust Framework 22-04 gaia-x

Data Space & Operating System Release 3.0 (02/23)

holds attributes for...

SD → SSI Wallet

stored in...

CX Registry

according to
Trust Framework 22-10 gaia-x

signed by...

GX Trust Anchor
governaned by gaia-x   executed by e.g. **T** Systems

opt. stored in ... (on participants request)

GX Registry gaia-x

validated by...

GX Compliance Service
governaned by gaia-x   executed by e.g. **T** Systems
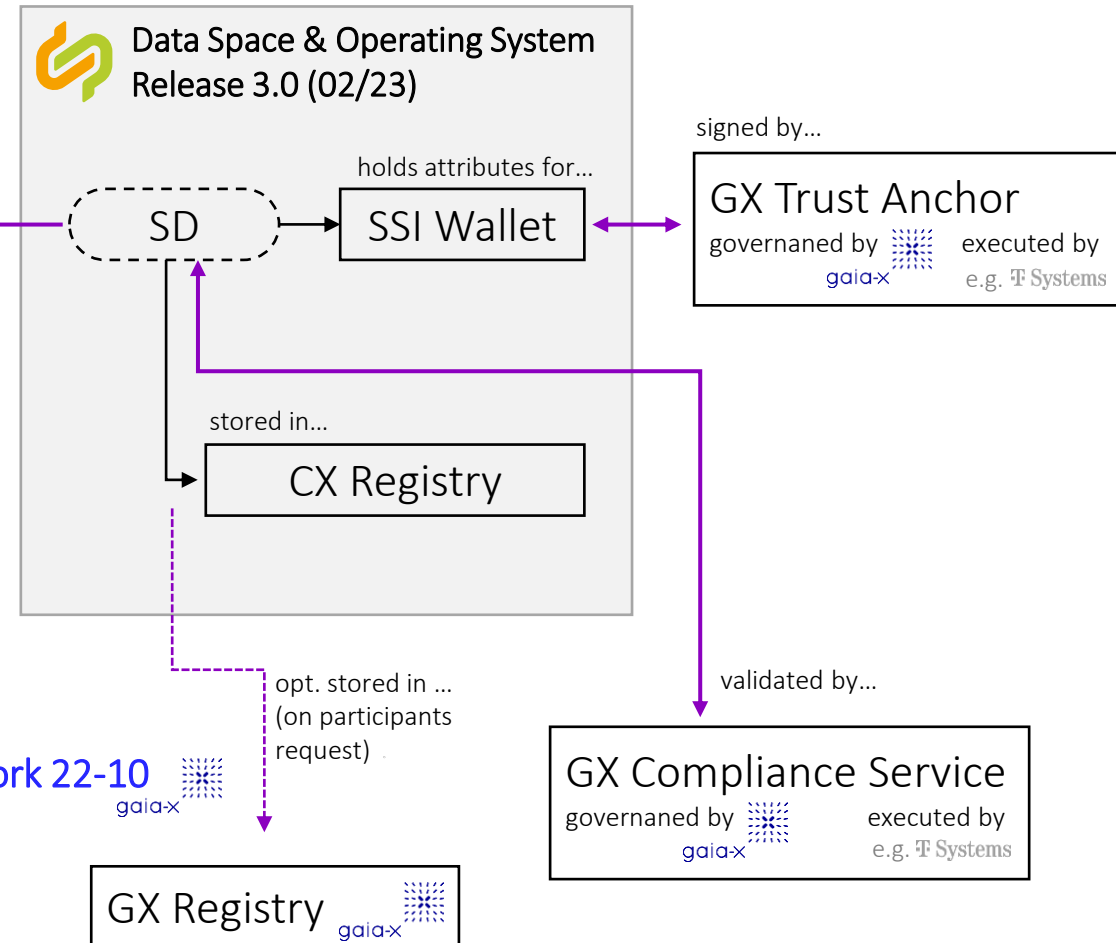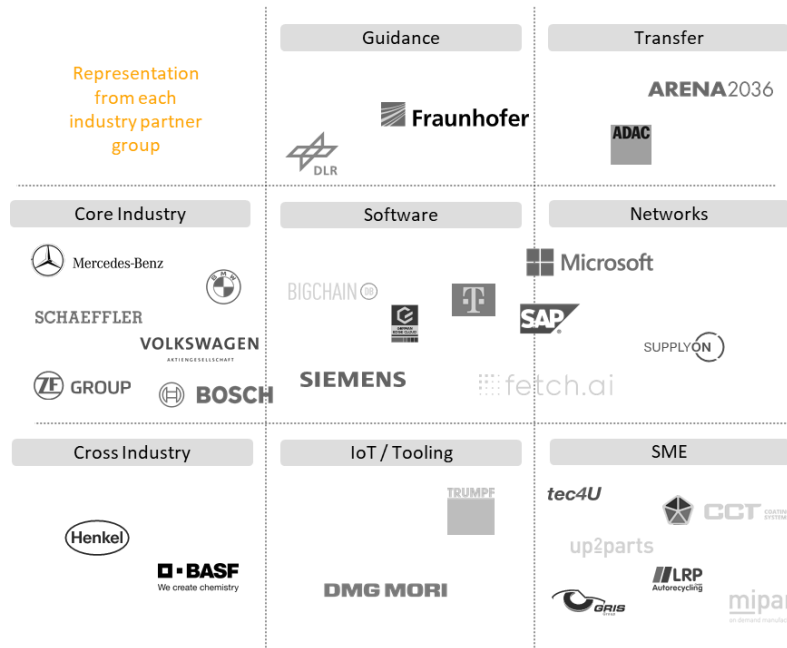
Starting and utilizing the Catena-X data space requires the right set of partners and a global way forward

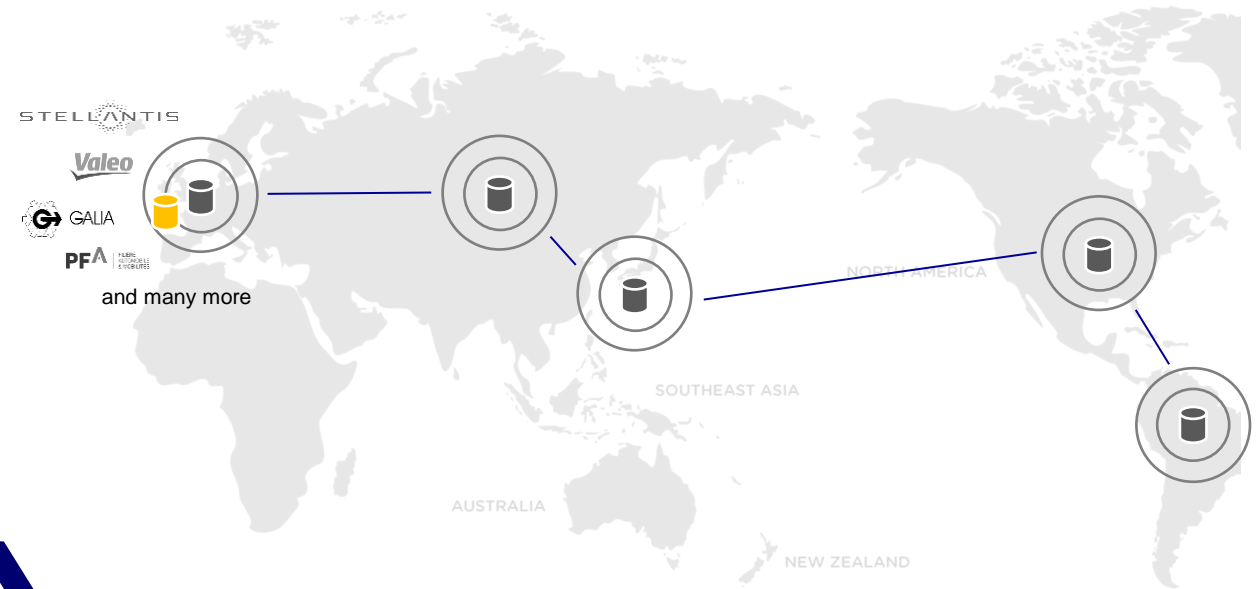**Kick-Starter Team** to build and launch the initial foundation.

Representation from each industry partner group

Guidance	Transfer
Fraunhofer, DLR	ARENA2036, ADAC

Core Industry	Software	Networks
Mercedes-Benz, BMW, SCHAEFFLER, VOLKSWAGEN AKTIENGESELLSCHAFT, ZF GROUP, BOSCH	BIGCHAIN, T, SIEMENS, fetch.ai	Microsoft, SAP, SUPPLYON

Cross Industry	IoT / Tooling	SME
Henkel, BASF We create chemistry	TRUMPF, DMG MORI	tec4U, CCT COATING SYSTEMS, up2parts, GRIS, LRP Autorecycling, mipart

28 initial partner started in 08/2021

»

Implement a **Hub-Concept** to empower regional adoption and ensure flow of information **between relevant regions** and **data spaces**.

STELLANTIS
Valeo
GALIA
PFA

and many more

NORTH AMERICA
SOUTHEAST ASIA
AUSTRALIA
NEW ZEALAND

examples on possible Catena-X int. members

128 global partner in Catena-X association 11/2022

World Premiere
Sign-off MoU "Set-up and operate the Catena-X Hub in France"

Signee Catena-X e.V.
- Oliver Ganser, Chairman of the Board
- Claus Cremers, Treasurer

Signee Catena-X for the French Industry
- Marc Mortureux PFA Director
- Eric Lambert, GALIA Director

Top jobs of the local hub

- Empower a region to work independently with Catena-X solutions

- Grow a local Catena-X community especially with SMEs

- Enrich the Catena-X portfolio with existing and new solutions

Working Group:
- Frank Göller & Alev Kirazli, Volkswagen AG
- Jean-Baptist Butcher, Valeo AG
- Stephan Watzka, Denso
- Alexandra Baleta VMware
- Andreas Kottmann, BMW AG
- Frank Lubnau, Capgemini
- Ionel Rusu, BASF AG
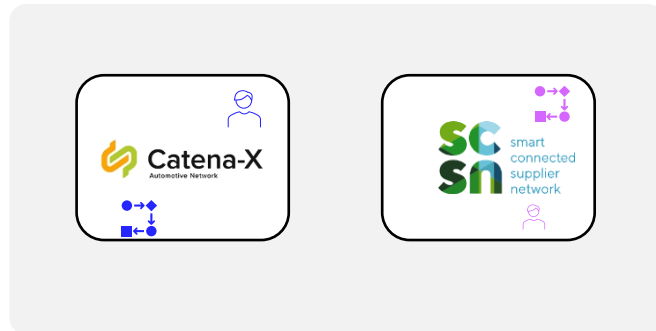- Markus Besch, SSC-Services GmbH

Outlook 2023
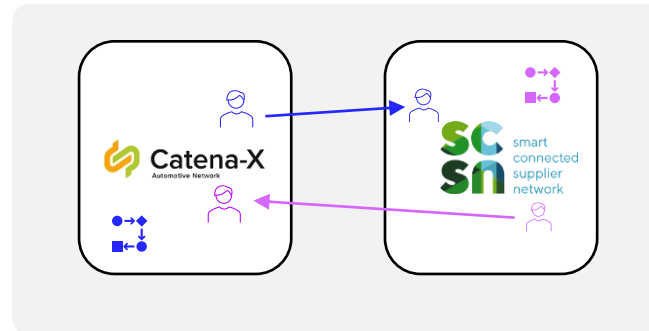# Establish interoperability of data space lighthouses

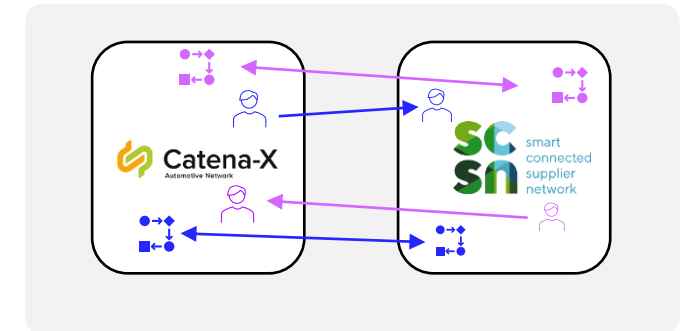Enable and support cross data space interoperability

Today: SCSN & Catena-X are completely de-coupled data spaces

Step 1: Simplified onboarding for partners of the other data space

Step 2: Seamless exchange of data for use-cases across the 2 data spaces

Providing the trust framework as basis for shared identity

gaia-x

Thank you!