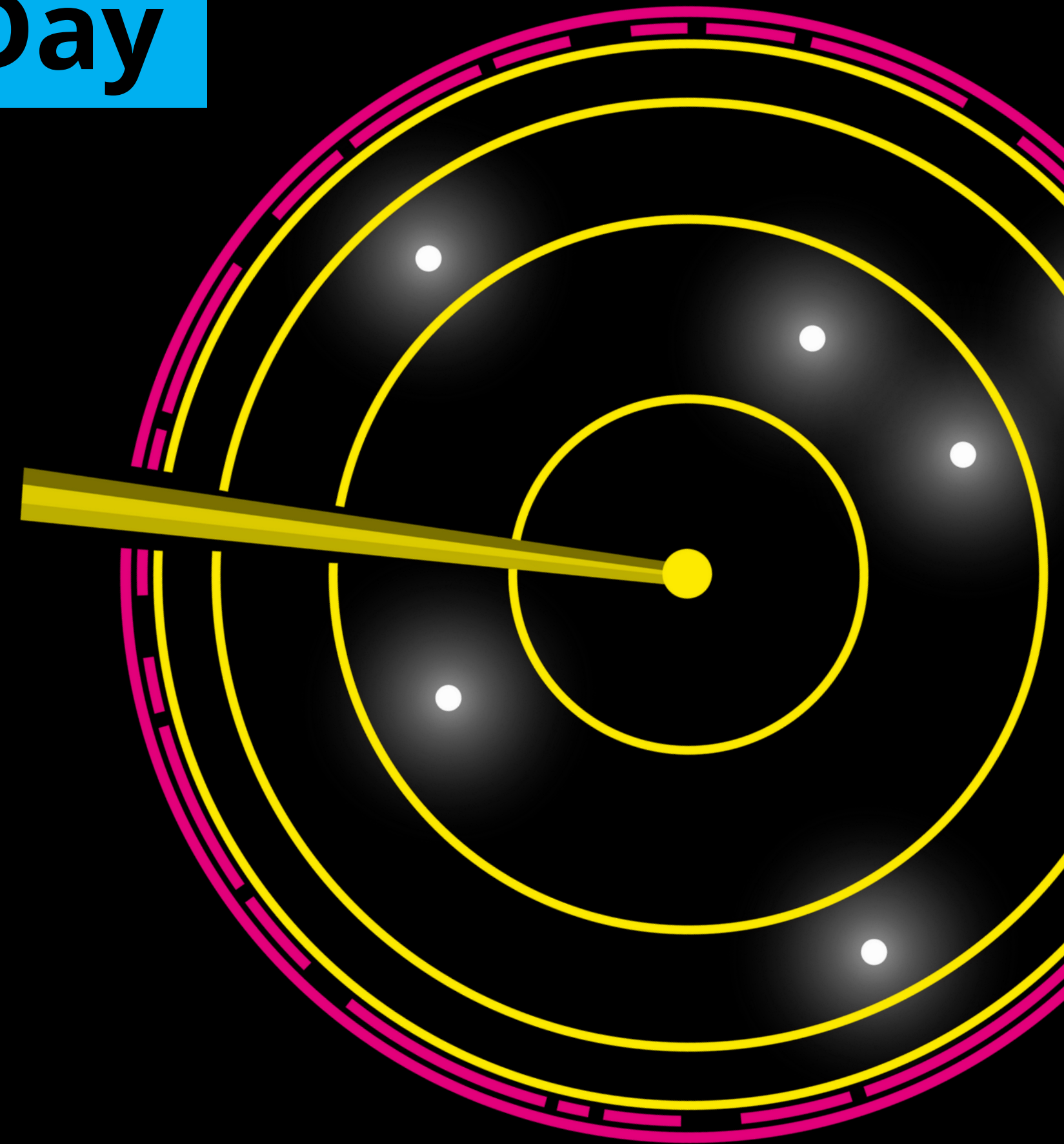


Data Spaces Discovery Day

October 19, 2023 | Vienna

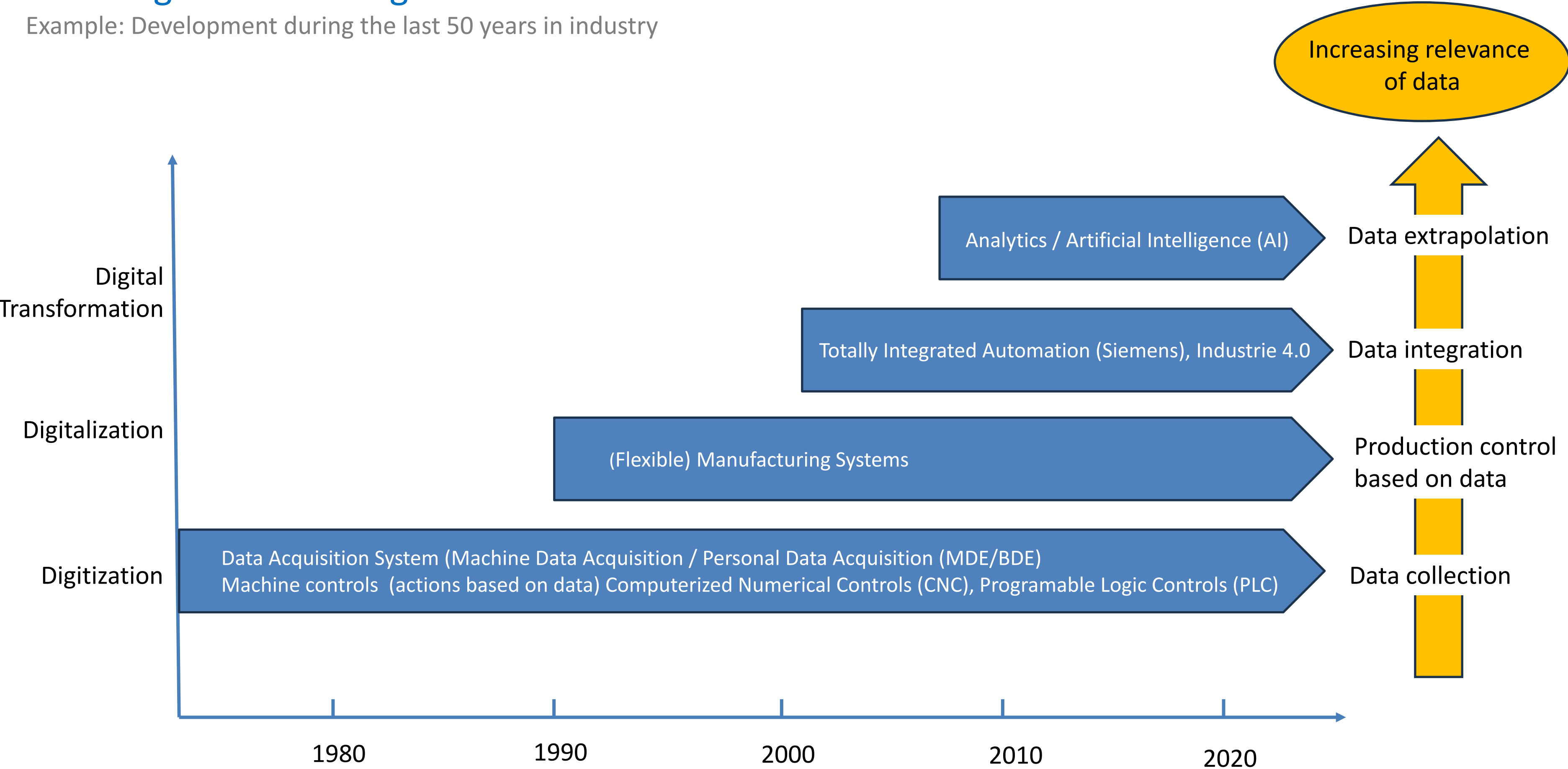
How data spaces boost
digital transformation

Reinhold Achatz
Chairman of the Board IDSA



From Digitization to Digital Transformation

Example: Development during the last 50 years in industry



What are data often used for?



Source: Internet



What data should be used for:

→ Data need to be used to create value!

✓ Optimizing Mobility

→ Mobility Data Space



✓ Optimizing Logistics

→ Catena-X



✓ Climate protection

→ Green Deal Data Space



✓ Many more



Data Spaces are the tool to create value!

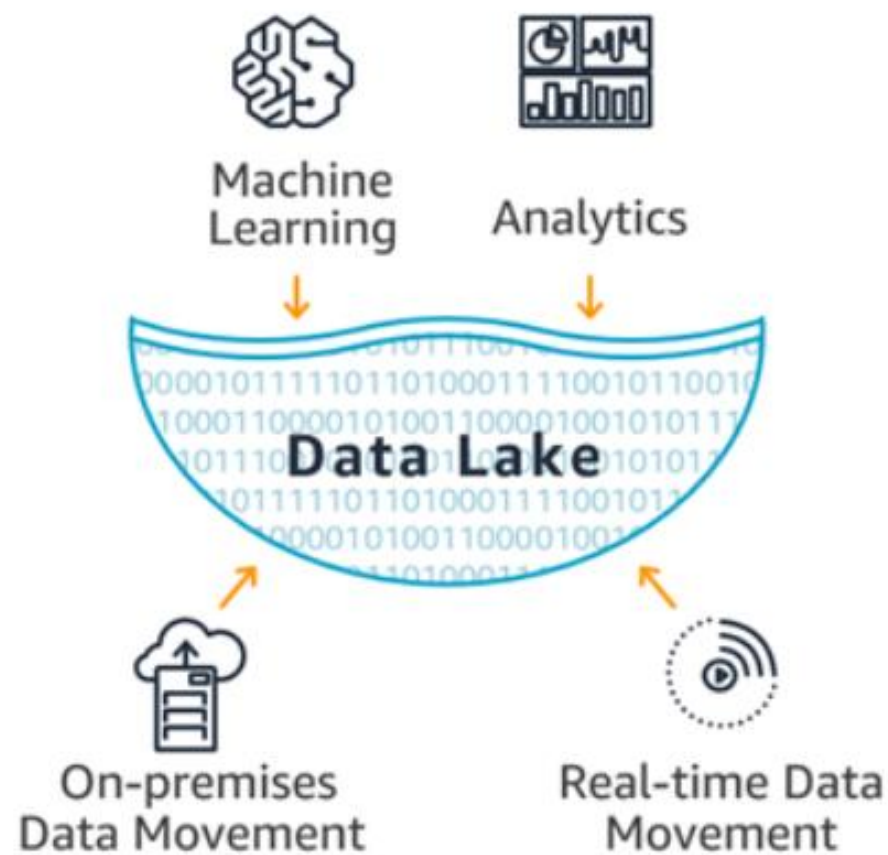
What are data spaces offering to their users?



- ✓ Data Spaces support **data ownership**.
- ✓ Data Spaces create **trust by design**. Trust is a precondition for most companies to share data!
- ✓ Data Spaces offer **interoperability**. Data Spaces are based on standardization of interfaces and the syntax and semantics to support interoperability.
- ✓ Data offerings can be published in a catalogue (Meta Data Broker) → **equal opportunity**.
- ✓ Data spaces **create new business opportunities** and support the generation of **new business models**.
Value is created through:
 - Cost sharing
 - Joint innovation
 - Shared marketplace
 - Process optimization (data exchange process and use-case-based processes)
 - Service opportunities (data sharing oriented services and application-based services)

Data Spaces implement a new paradigm

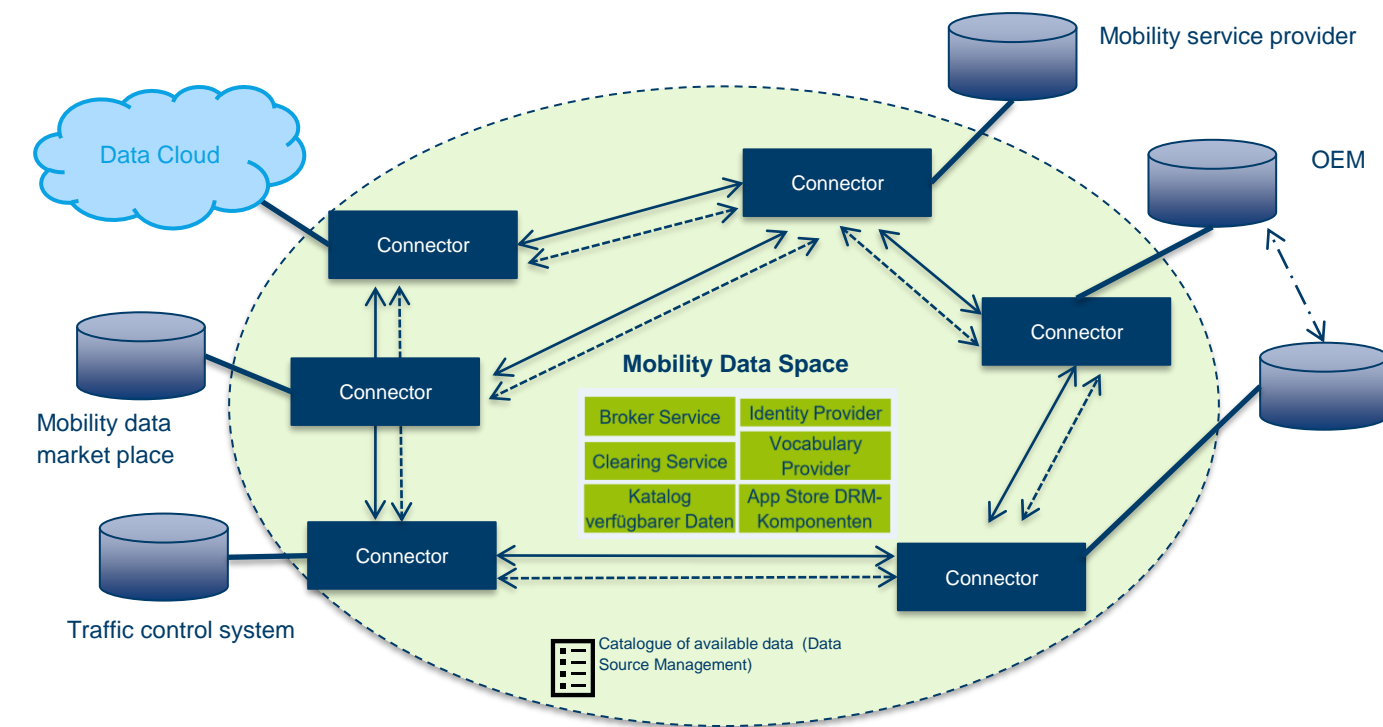
Federated data storage



Source: Amazon

Central storage of data

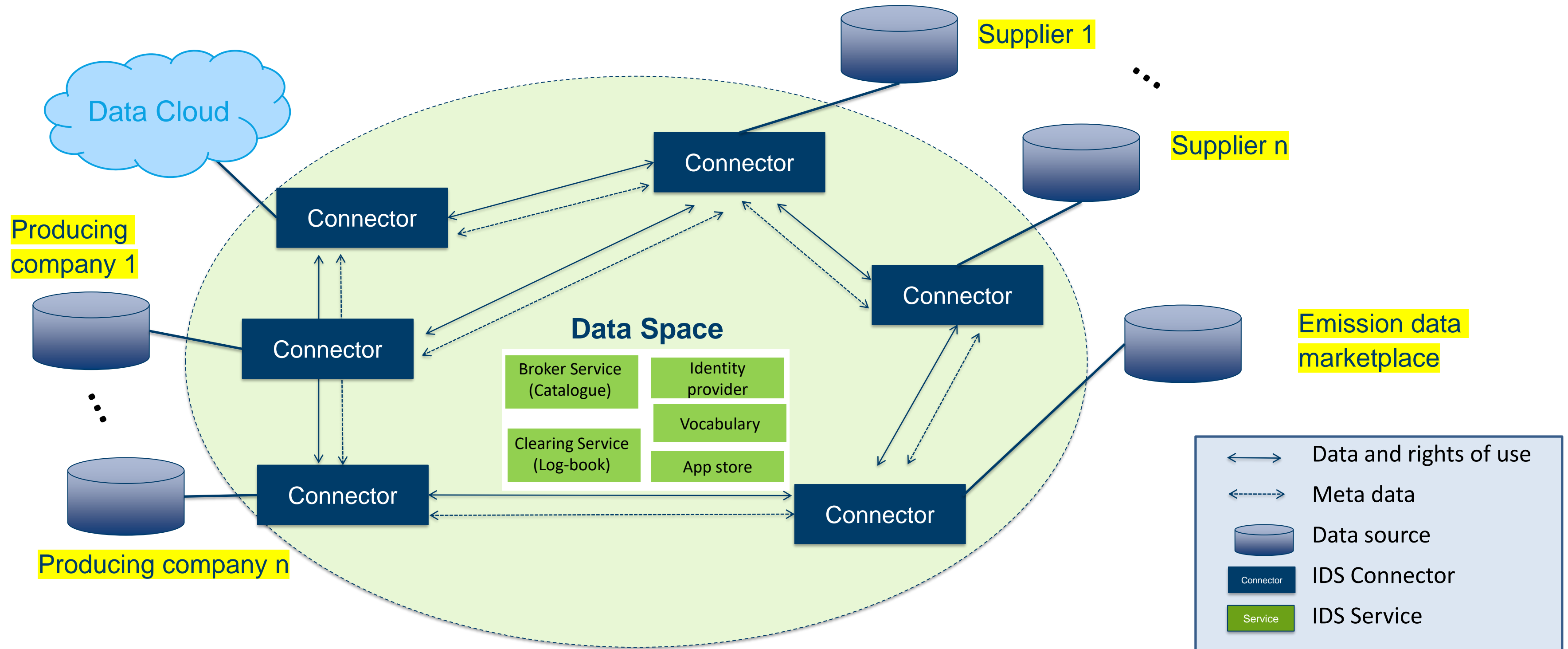
A new paradigm for the use Data: Secure Data Space



Federated storage of data

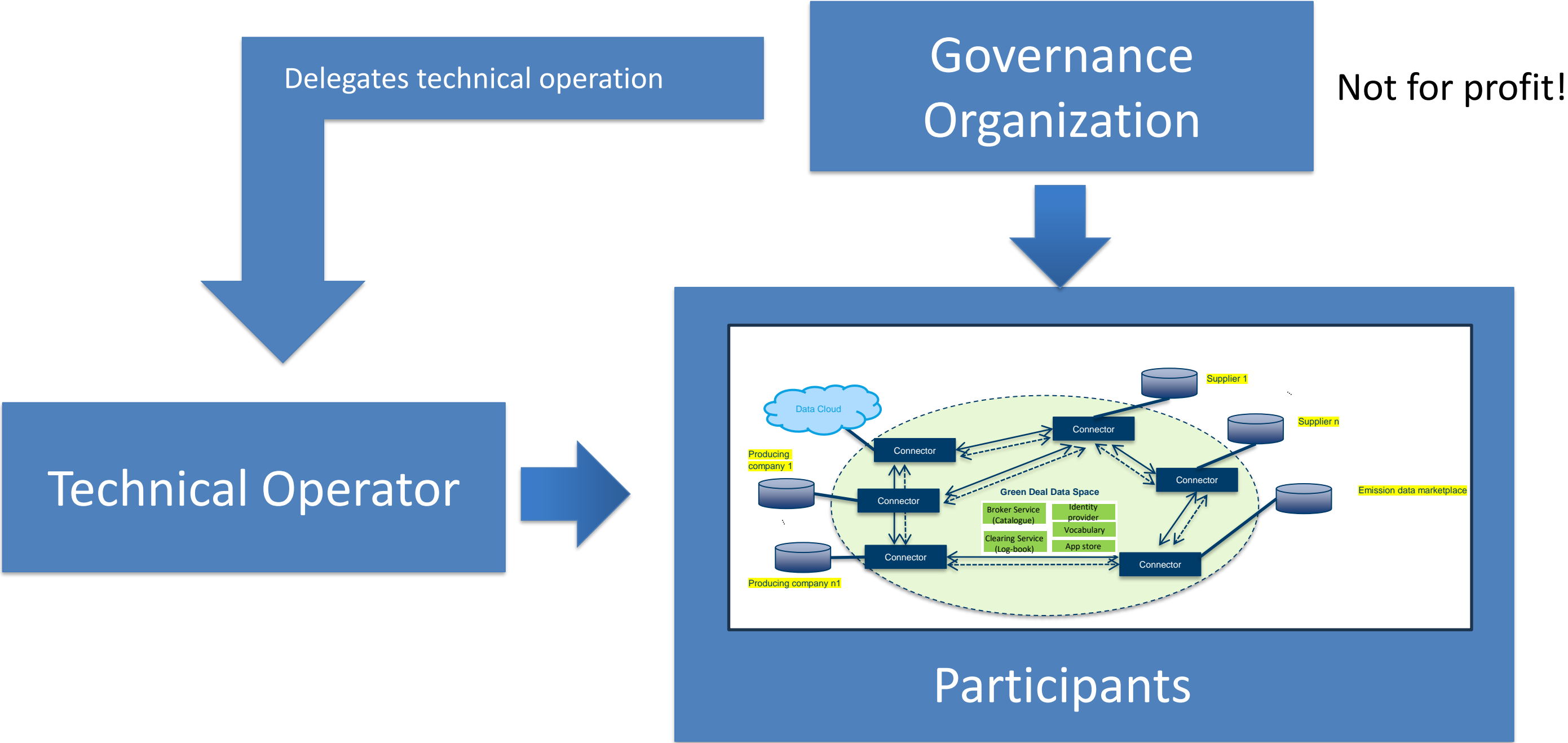
Data Spaces – a new paradigm to share data

Structure of a distributed Data Eco System



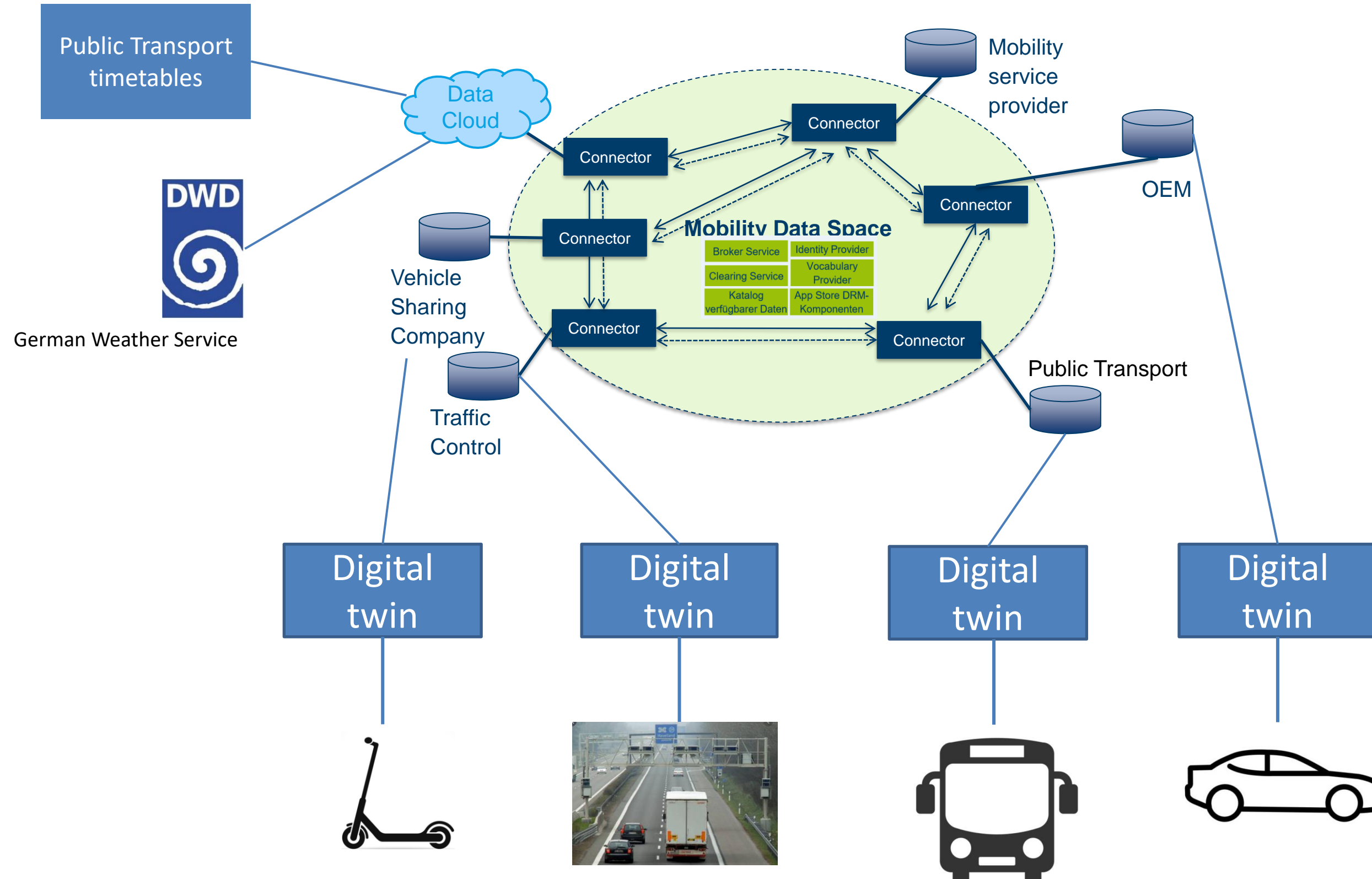
How data spaces can be organized

The organizational structure guaranties neutrality



Making data available

Example: Mobility Data Space



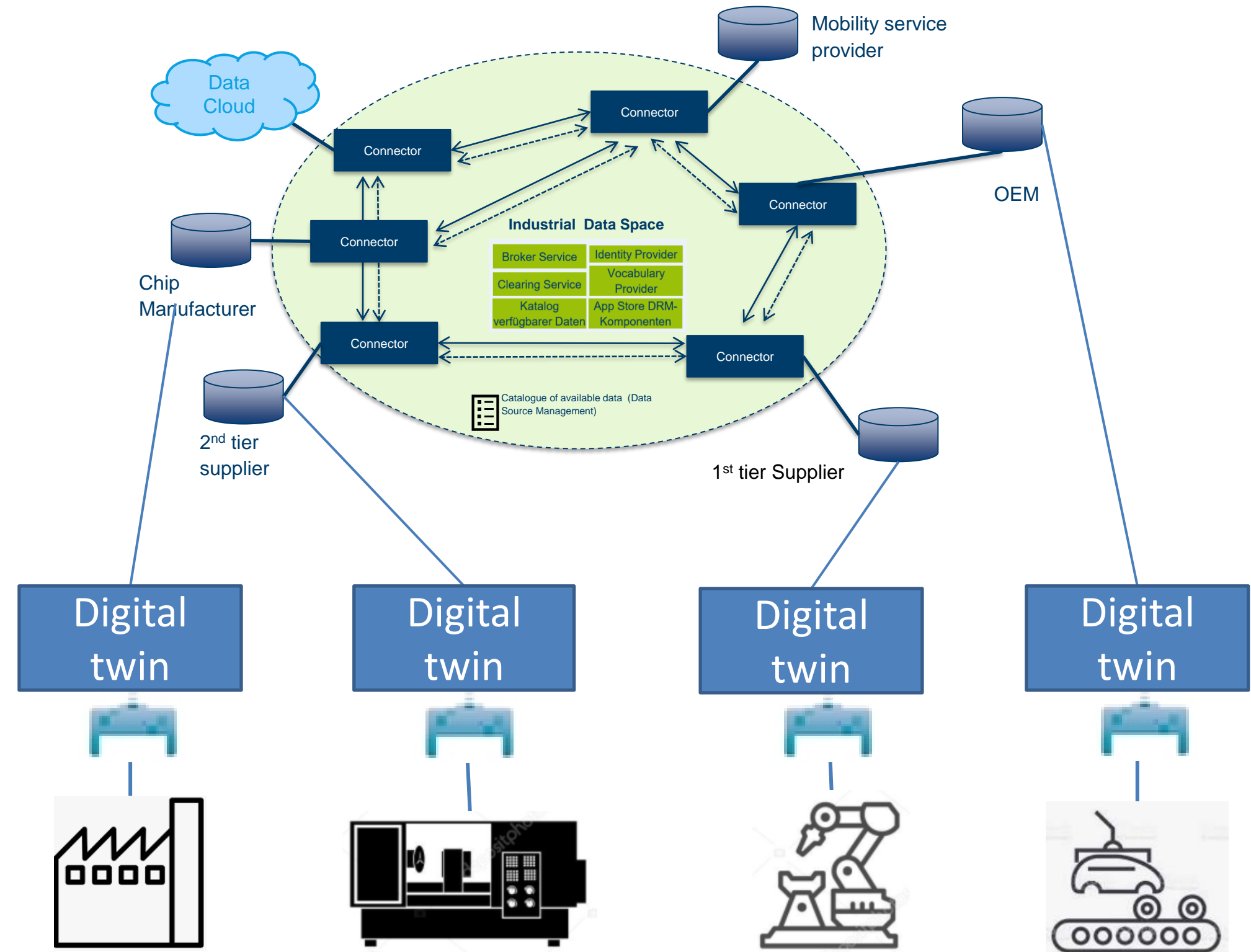
Industrial Landscape – Architecture of an industrial data space

Defining Industry-neutral standards for services & semantics

Industrial Data Space based on IDS

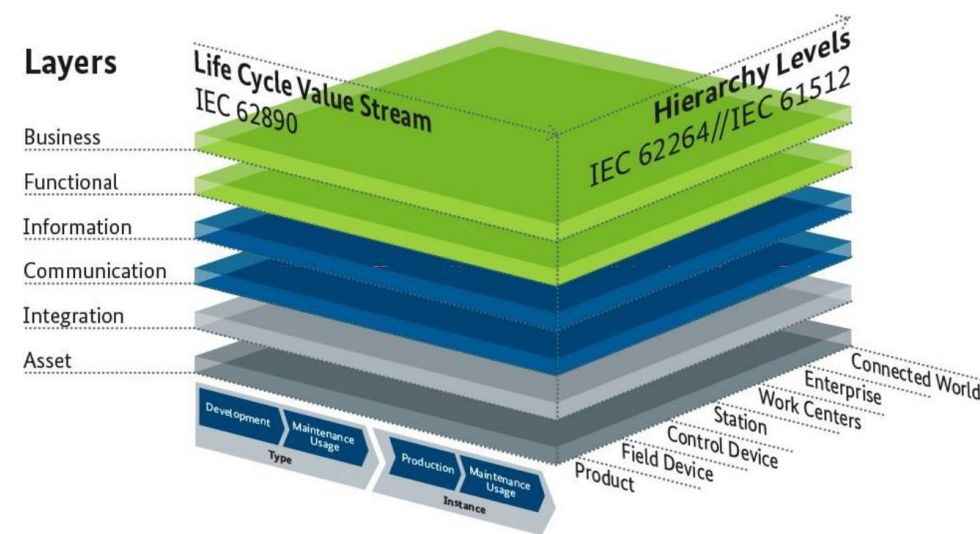
- Connector communication
- Broker
- Logging
- Vocabulary
- Identity
- AppStore

DIN 27070
(ISO work in progress)



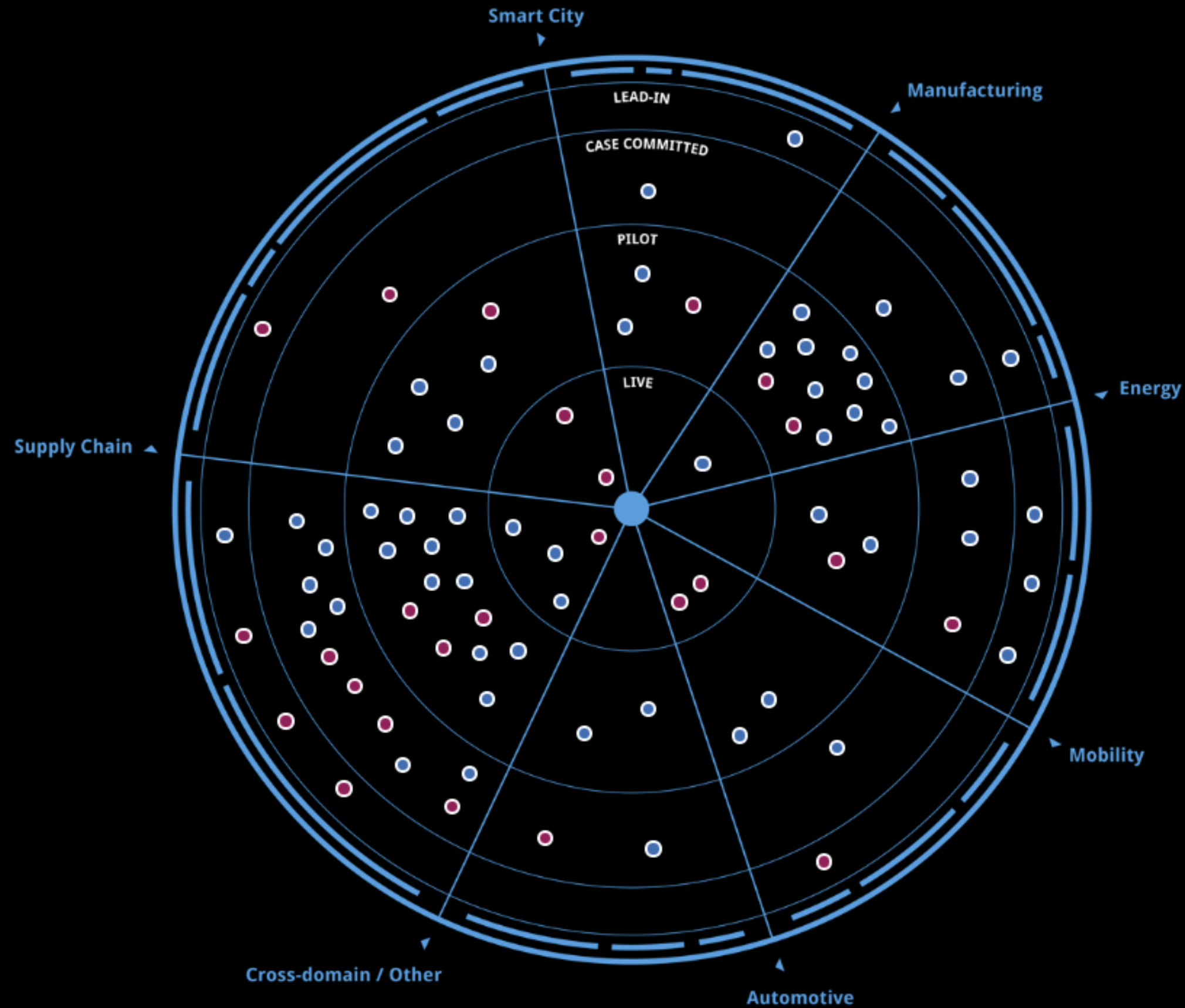
Industrie 4.0

- RAMI 4.0
- OPC UA
- Real time communication



Data Spaces are reality - IDSA Data Space Radar

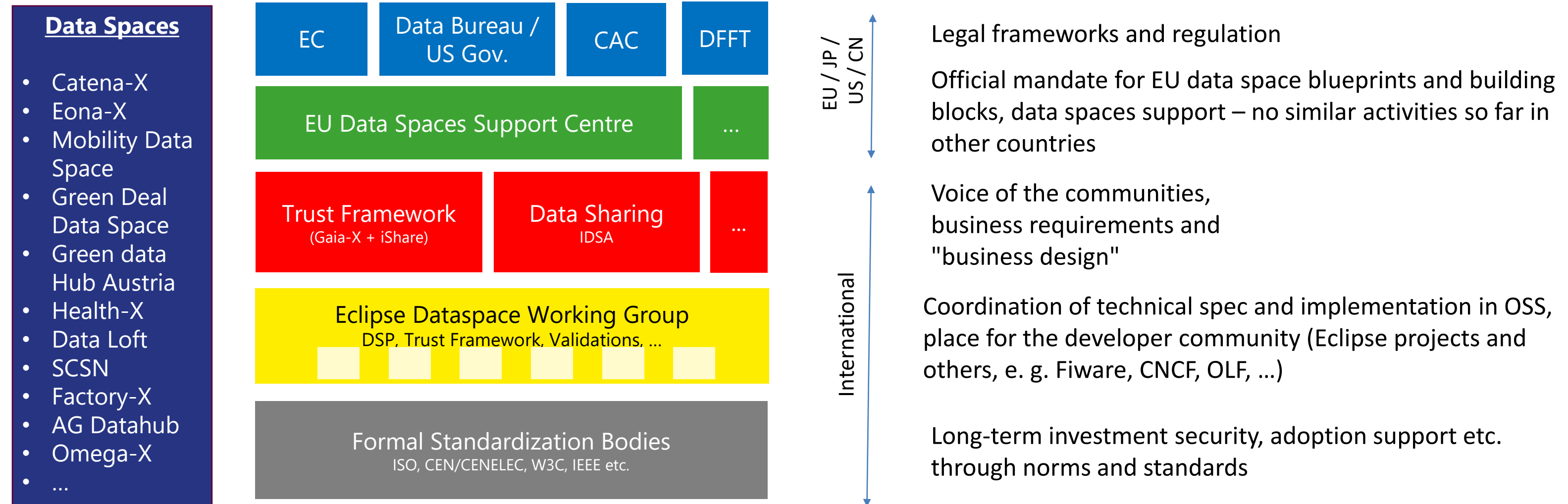
100+ data spaces and use cases



Data Spaces need a joint effort



All partners need to focus on their core objective



To be successful, everyone must stay in their lane ...
 ... with green, red, yellow and grey being always aligned and committed to the same standards and protocols.
 (clarification: no exclusivity, actions outside are allowed)

Value proposition of Data Spaces



- ✓ Data Sovereignty
- ✓ Enable Value Creation through Sharing Data
- ✓ Interoperability
- ✓ Open and Vendor Neutral
- ✓ Equal Opportunity for all Participants
- ✓ Trust
- ✓ Low Transaction Cost
- ✓ Economy of Scale

Thank you!

Reinhold Achatz
Chairman of the Board IDSA

