

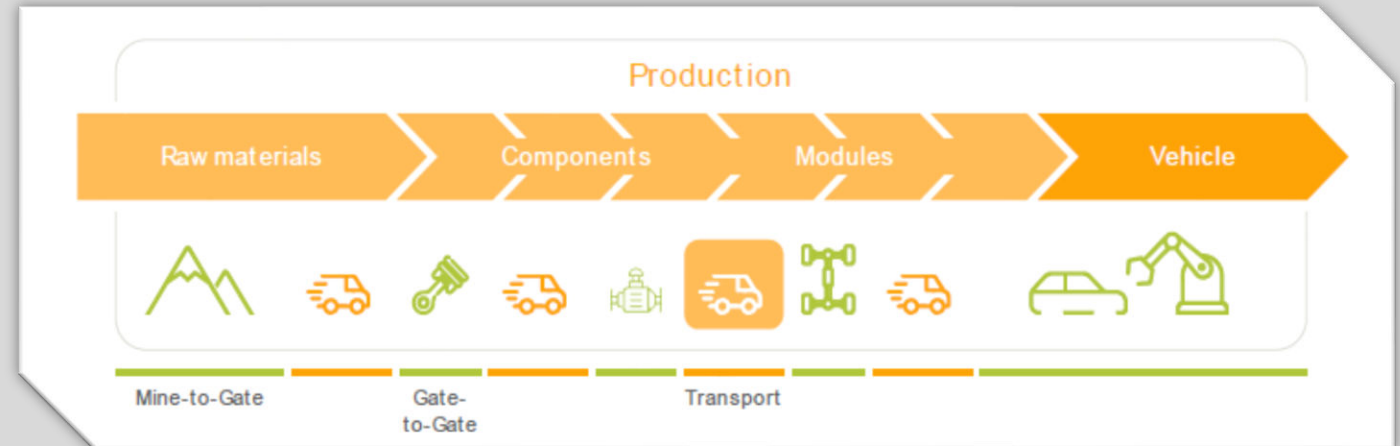
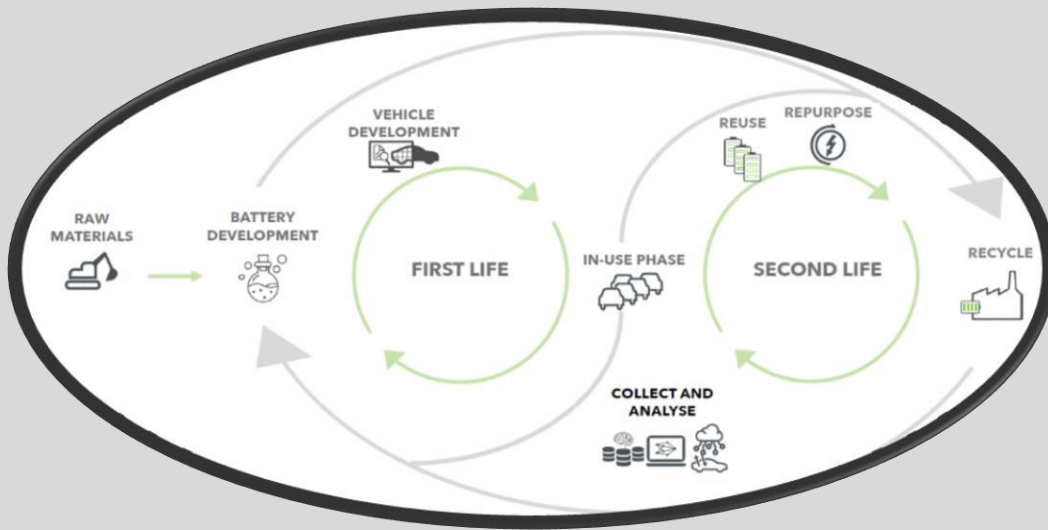


Lessons Learned on Data Sovereignty

Industrial Use Cases drive Dataspace Adoption

Dr. Bernhard Peischl 

Product Environmental Footprint

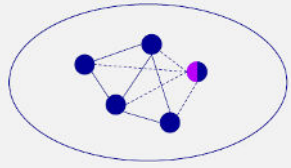


Sources: [Catena-X Automotive Network](#), PCF Rulebook.

	PEFCR	Catena-X	Global Battery Alliance (GBA)	Battery Pass
System boundary	Gradle to Grave	Gradle to (factory) gate	Cradle to gate	Gate to grave
Data source & data quality	<ul style="list-style-type: none"> Primary data Secondary data Data quality ratings Data needs matrix 	<ul style="list-style-type: none"> Primary data shall be used, if available Penalty for secondary data Data quality ratings 	<ul style="list-style-type: none"> Collect primary data on annual basis Secondary data 	-
Objective	Guidance on PEF	Production phase of vehicles from tier to tier	Globally harmonized rules; footprint transparency	Complement of GBA for recycler

Governance of Digital Eco-Systems

Closed Ecosystem



Interoperability

- Proprietary schema
- Domain-specific standards

Sovereignty

- Traceability and transparency of data exchange not required

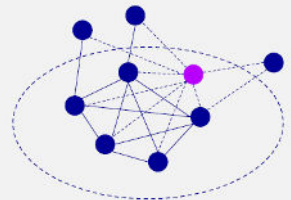
Trust & Security

- Trust through consortium
- Digital tokens not required

Use case / business case



Open Ecosystem



- Domain-specific, open standards
- Common vocabulary

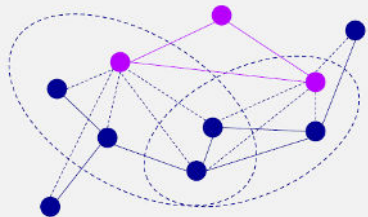
- Incr. demands for policy enforcement
- Policies to be unanimously understood

- Digital tokens required
- Dynamic technologies for sensitive data



Sources: [Catena-X Automotive Network](#).

Federated Ecosystem



Sources: Gaia-X Webinar on Data Spaces.

- Cross-domain, open standards
- Voc. Mapping
- Unique IDs across domains

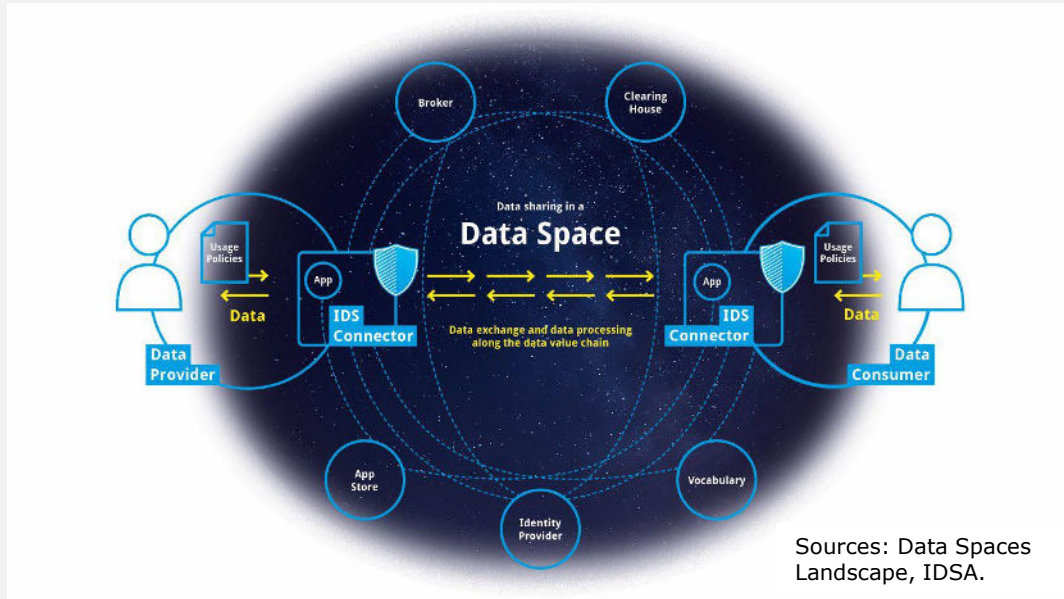
- Demand for policy enforcem.
- Policies to be unanimously understood
- Policies for automated negotiation

- Digital tokens for cross-ecosystem apps
- Uniqueness of identities required



Sources: [Mobility Data Space](#).

Lessons Learned (Catena-X, Mobility Data Space)



Sources: [Mobility Data Space](#).

Sources: [Catena-X Automotive Network](#).



Tangible use cases to understand the immediate benefits of data spaces and kickstart the ecosystem

- Catena-X: CO₂ / ESG Monitoring, Live Quality Loops, Behavioral Digital Twins – automotive supply chain
- Mobility Data Space: Sustainable use of commercial PHEV fleets – mobility and road transport
- PCF Rulebooks & Data Act: Interoperability, Data Sovereignty and Trust into digital ecosystems

Public

AVL



**Lessons Learned on
Data Sovereignty:
Industrial Use Cases
drive Dataspace
Adoption**

Dr. Bernhard Peischl [in](#)