



Digital Product Passport
Austria & Beyond

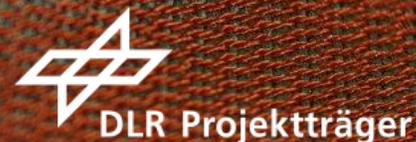
Data Ecosystems for the Digital Product Passport

Project Overview

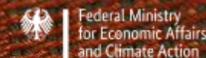
Dr. Georg Simhandl, AIT
Vienna, 07.04.2025

Funded by

 Federal Ministry
Republic of Austria
Climate Action, Environment,
Energy, Mobility,
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Digital Product Passport

- PASSAT paves the way for the establishment of a **data-service-ecosystem** in Austria to **enable digital product passports (DPP)**.
- A DPP is a collection of **data linked to a specific product**, describing its properties and **current state and accompanying it throughout and after its operation time**.
- The passport's goal is to **support the circular economy**, with participation from all actors **along the supply chain**.
- Data stored in the DPP supports informed decision making and a circular economy, **helps fulfil requirements for regulatory compliance and enables new, data-driven business models**.
- Data for a DPP originates from various sources, requires an underlying **data spaces / data ecosystem to ease collaboration** within the whole value chain and throughout the entire product lifecycle.

Industrial Needs



Institutionalization of a
DPP infrastructure



Recommendations for
the collection,
documentation and
processing of product
information



Training courses for
companies (SMEs)



Protection of company
know-how



Interoperability at
system and data level
via open standards



Consideration of the
heterogeneity of
stakeholders



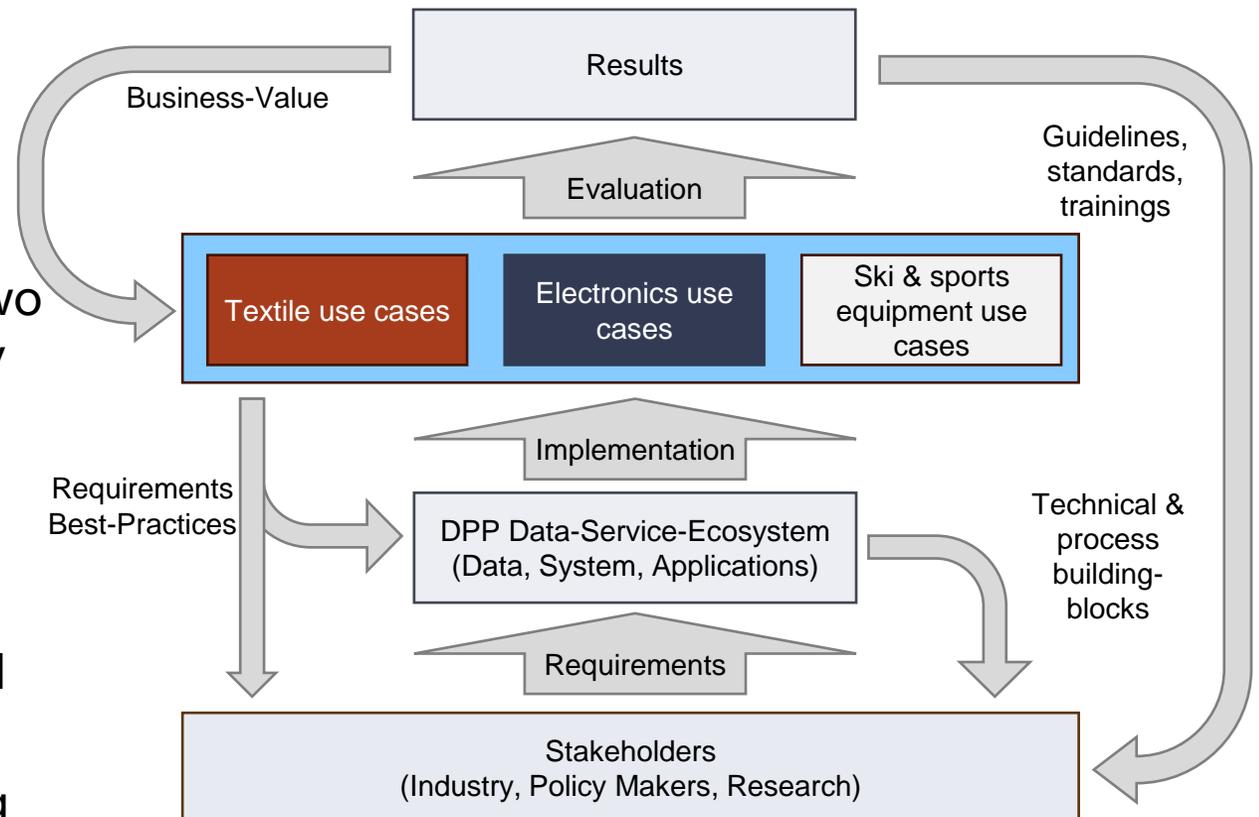
Better market insights
and operational
efficiency



Experiments in lab
environments

Objectives

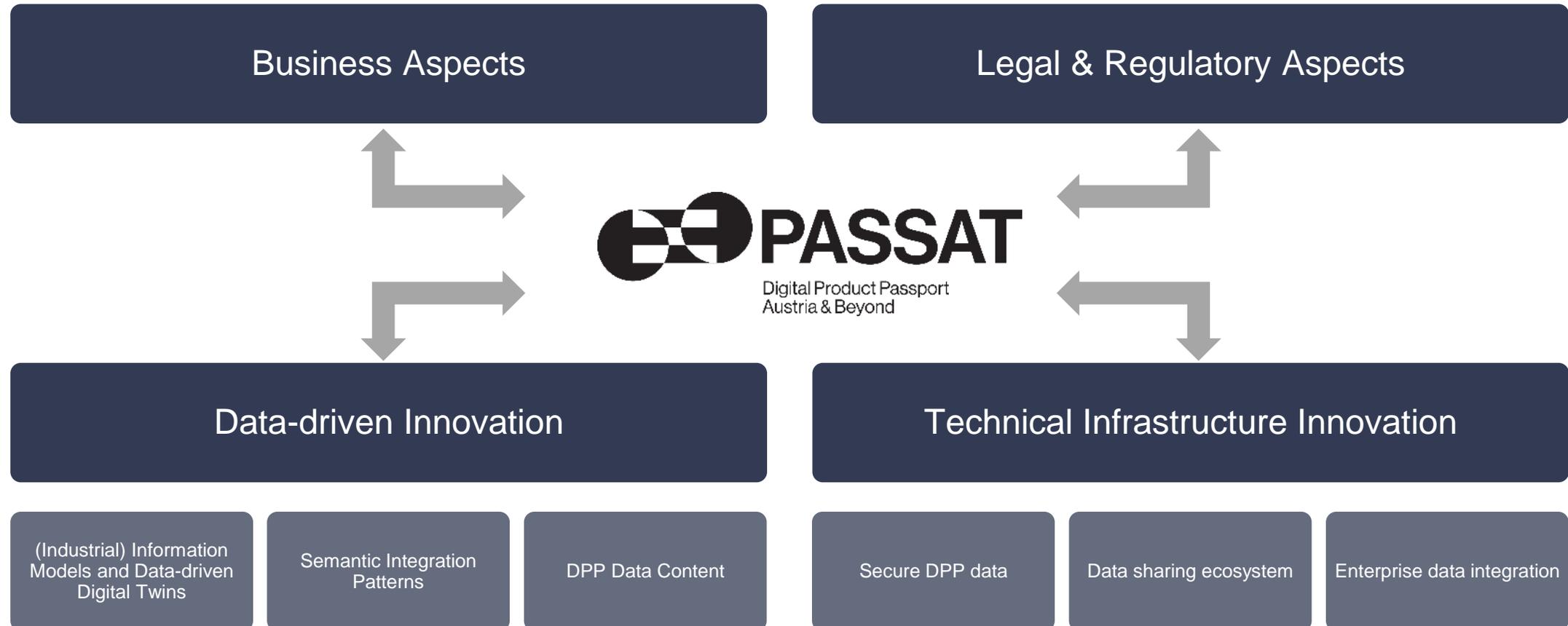
- 1) **Analyze** the functional and non-functional **requirements and regulations** for implementing DPPs
- 2) **Develop generic data service ecosystem** concepts and components
- 3) **Demonstrate implementation** of DPPs in two specific product groups and a transferability use case, ski and sports equipment
- 4) **Provide information, support and training** for companies on implementing and utilizing DPPs
- 5) **Provide inputs** for international and national guidelines, standards, and legislations
- 6) **Provide policy recommendations**, including support for the development of a strategic adoption plan for Austria



Consortium

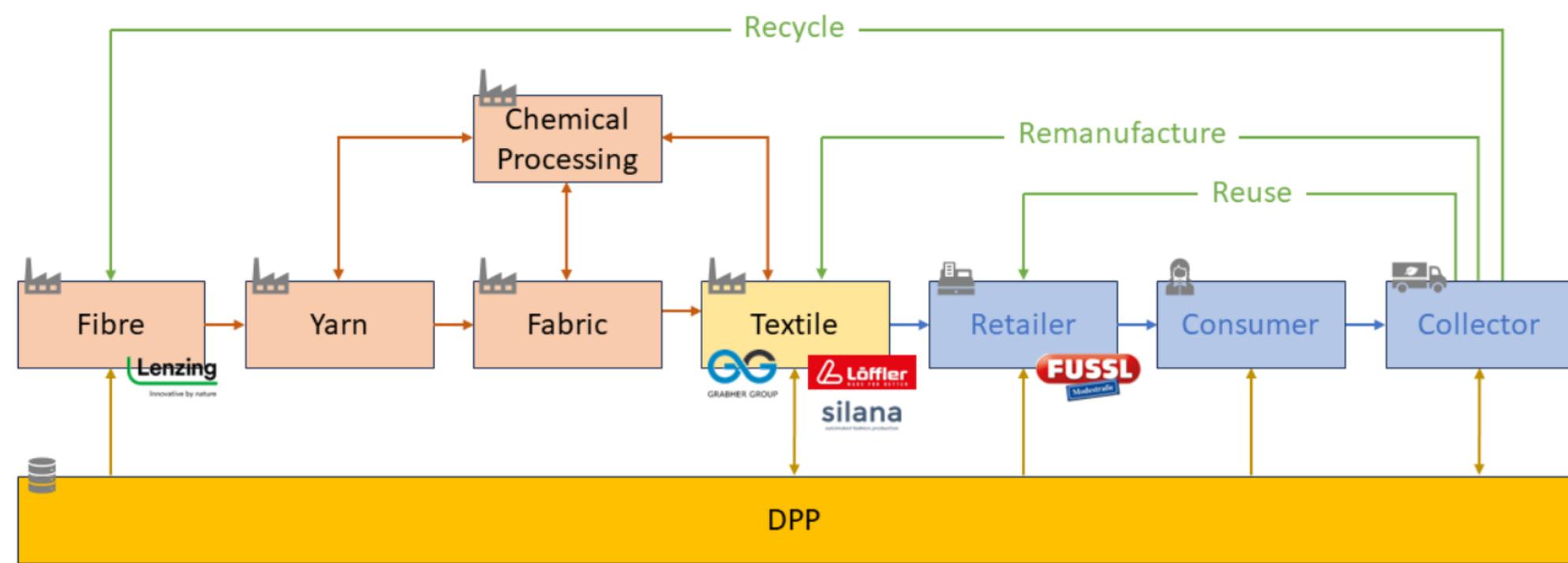
Research	Industry	Network	Associated (LoI)	Linked Initiatives
<ul style="list-style-type: none">• ABC Research• AIT• Fraunhofer• HTW Berlin (DE)• Joanneum Research• SRFG• UWK• V-Trion	<p>IT</p> <ul style="list-style-type: none">• CANCOM• Nexyo• Onlim <p>Textile</p> <ul style="list-style-type: none">• Silana• Grabher Group• Löffler <p>Electronics</p> <ul style="list-style-type: none">• EAW (DE)• Fronius• SECONTRADE <p>Transferability</p> <ul style="list-style-type: none">• Atomic• Wintersteiger	<ul style="list-style-type: none">• GS1• Plattform Industrie 4.0• Rigo Wenning	<ul style="list-style-type: none">• AVL-List• carla• DIH-Süd (EDIH)• DIO• FEEI• FMTI• Fussl• IDTA• IPC• IV• Lenzing• LNI40• Refurbed• Schneider Electric (DE)• Sport Factory• UFH Holding	<p>Platforms</p> <ul style="list-style-type: none">• Catena-X• Gaia-X• IDSA• Manufacturing-X• Smart-Textiles Plattform Austria <p>Projects</p> <ul style="list-style-type: none">• AI5Production (EDIH)• BATWOMAN• champ14.0ns• CIRPASS-2• BatteryPass• RecAI• MoLIBity

Approach



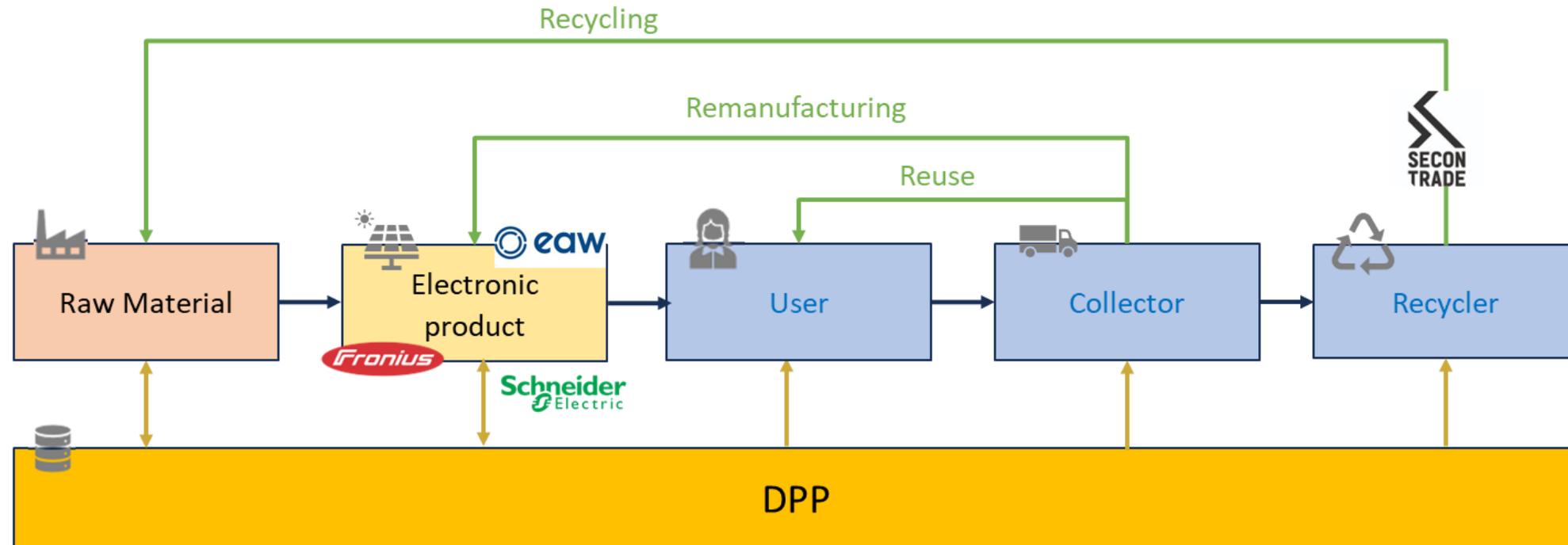
Product Group Textiles

By providing reliable product data across the entire product lifecycle, the DPP enables circular economy and new business models.



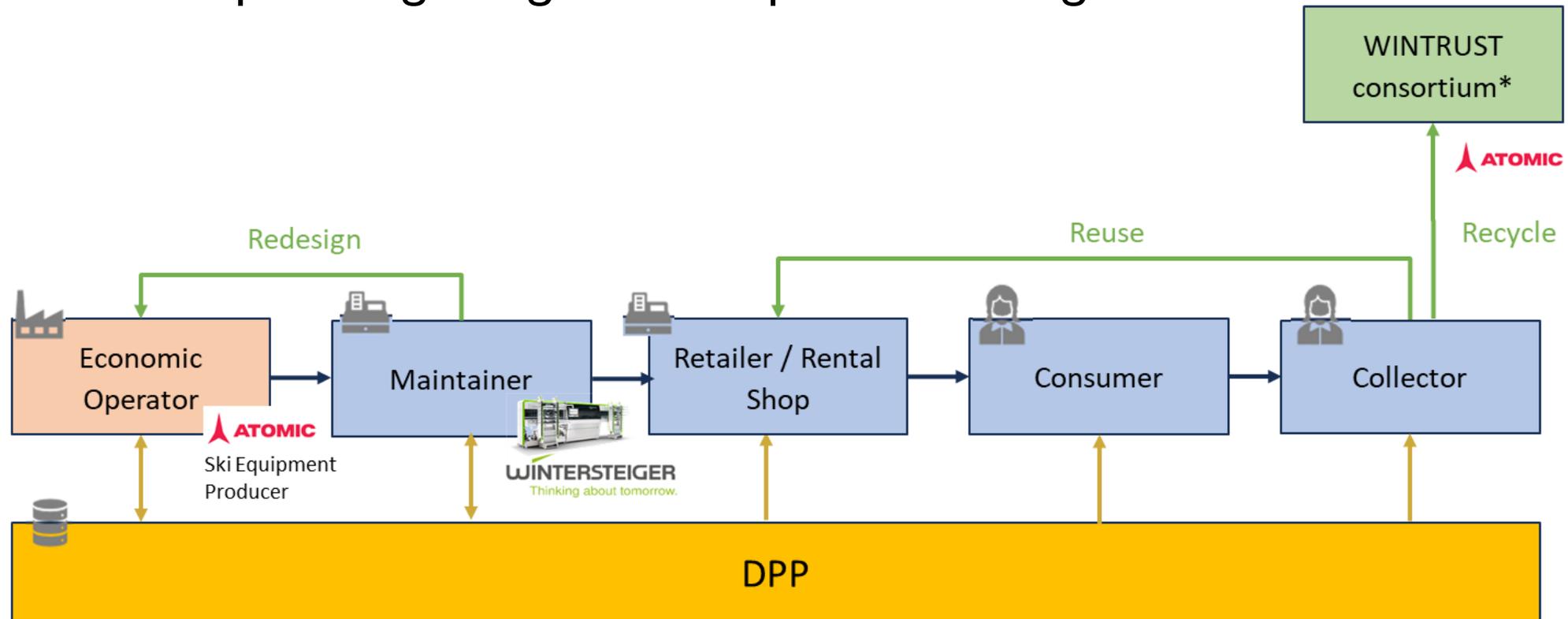
Product Group Electronics

Covering production-sales-maintenance-recycling and utilizing standards to increase product value and reduce e-waste.



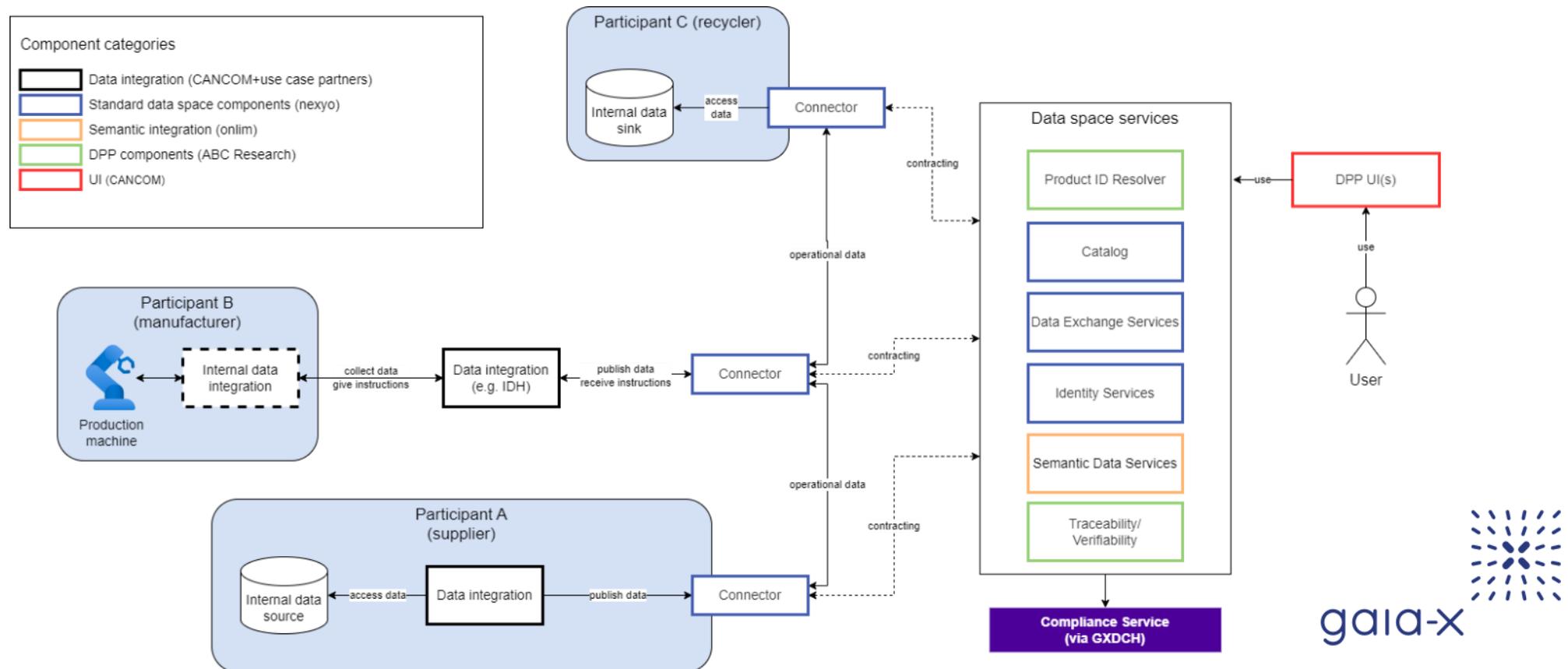
Product Group Ski & Sports Equipment

Enabling trustworthy traceability to create new business and service models incorporating usage data in product design



Architecture

By analyzing architectural options and best practices, PASSAT provides strategic guidance on establishing data sovereignty and interoperability



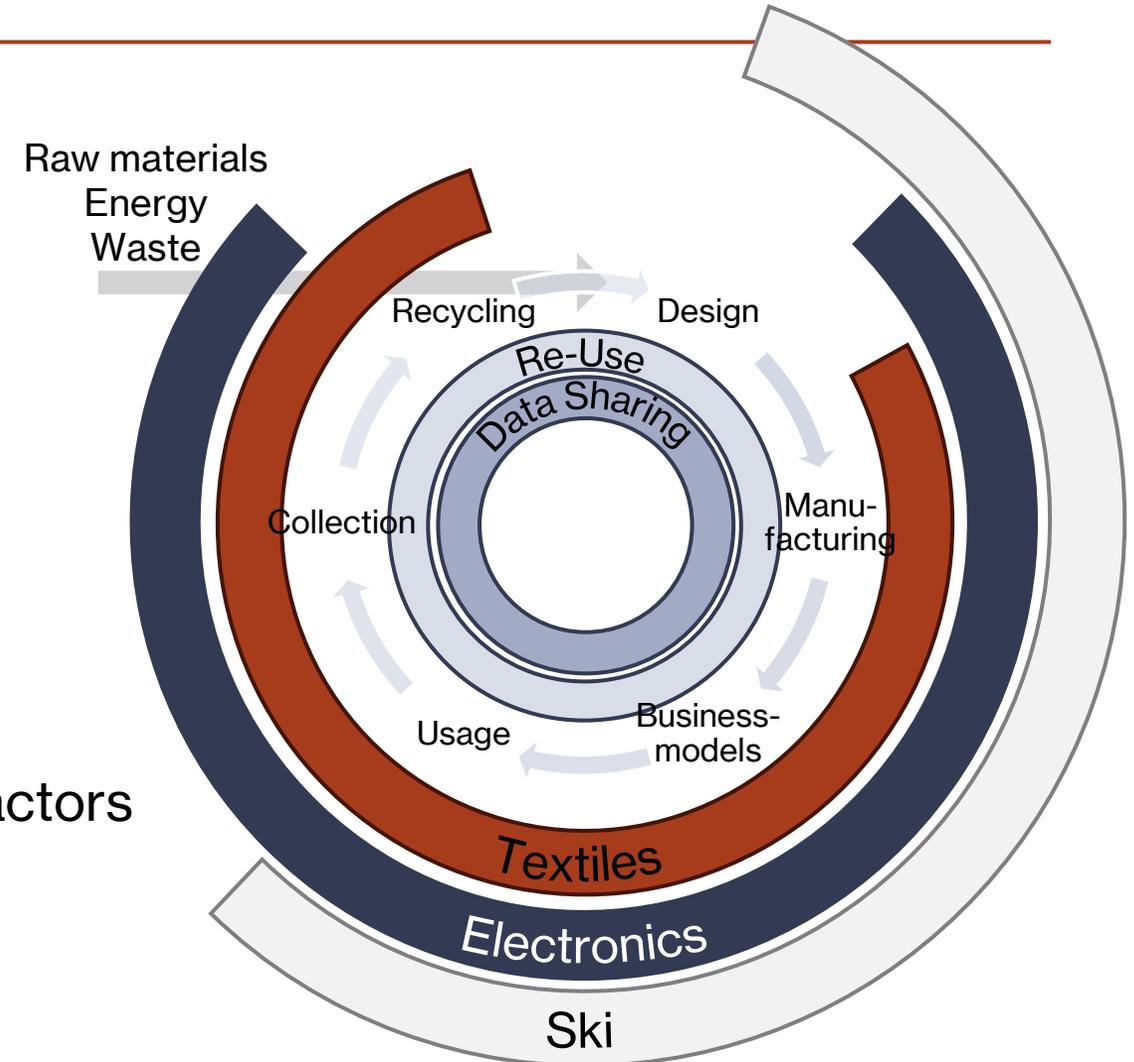
Unlocking the Potential

- Each actor controls and owns their data
- Trustworthy data sharing
- Regulatory compliance & data protection

Data Sovereignty

Interoperability

- Seamless integration of data from diverse actors
- Technical interoperability between systems
- Open standards and protocols

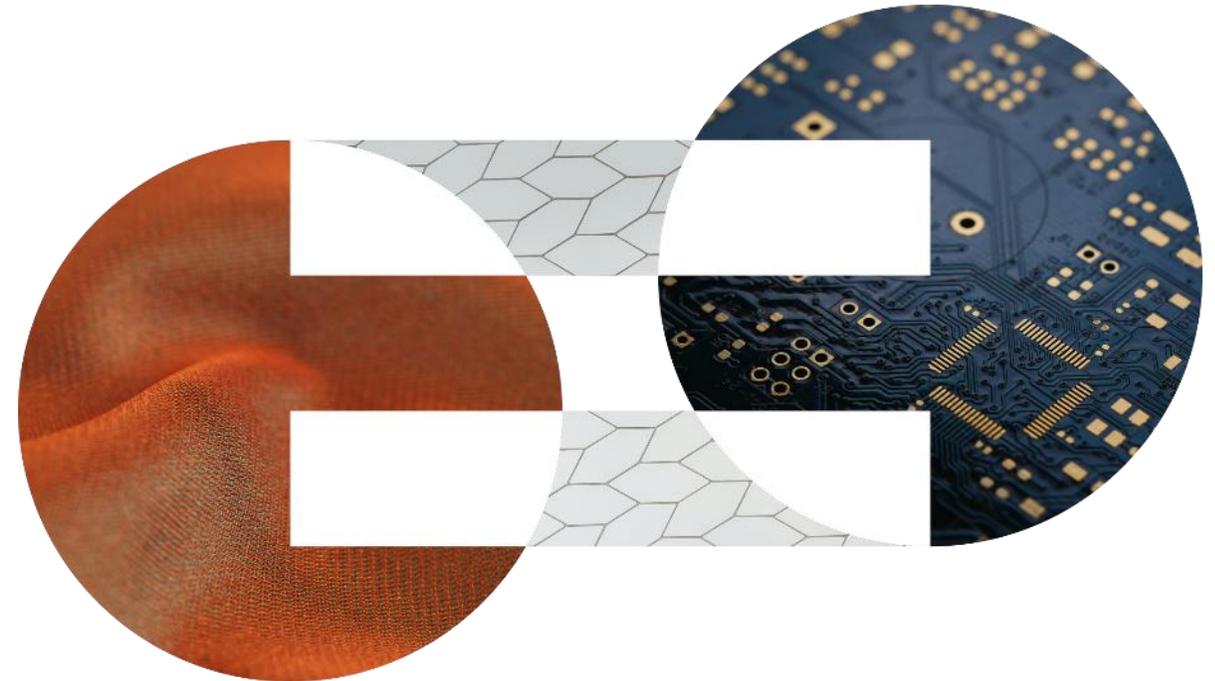


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