



We create chemistry

DPP in the Chemical Industry

Supply Chain Communication

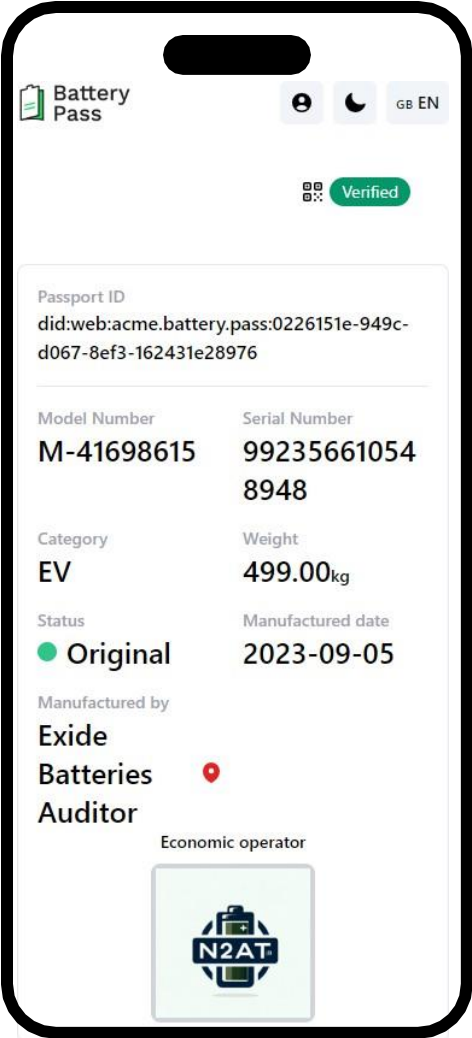
Bruxelles, Oktober 15, 2024



Executive Summary

- Start with **an essential dataset** (!= data graveyard)
- **One harmonized standard material passport**
- DPP Information shall be sovereign and shall belong to the economic operator
- Structure DPP along the product lifecycle phases
 - ▶ Production – no DPP is available, but material data is required and gathered
 - ▶ Market Introduction – DPP is issued
 - ▶ End of Life – DPP is revoked, and material accounting starts
- DPP's data is required for material accounting
- DPPs serve R-Strategies in line with the **“need to know” principle**


Vision DPP / Battery Passport



DPP-Reality In the Process Industry. ID Link




SIEMENS
English










6GK5206-2BS00-2AC2





SCALANCE XC206-2SFP

SCALANCE XC206-2SFP manageable Layer 2 IE switch; IEC 62443-4-2 certified; 6x 10/100 Mbit/s RJ45 ports; 2x 100/1000 Mbit/s SFP; 1x console port; diagnostics LED; redundant power supply; temperature range -40 °C to +70 °C; assembly: DIN rail/S7 mounting rail/wall Office redundancy functions features (RSTP, VLAN,...); PROFINET IO device; Ethernet/IP-compliant; C-plug slot;

✓ Lieferfreigabe
12/01/2016
 

Digital nameplate

















[More certificates](#)

The test symbols depicted on the nameplate indicate the certificates and directives with which the product complies.

Support entries

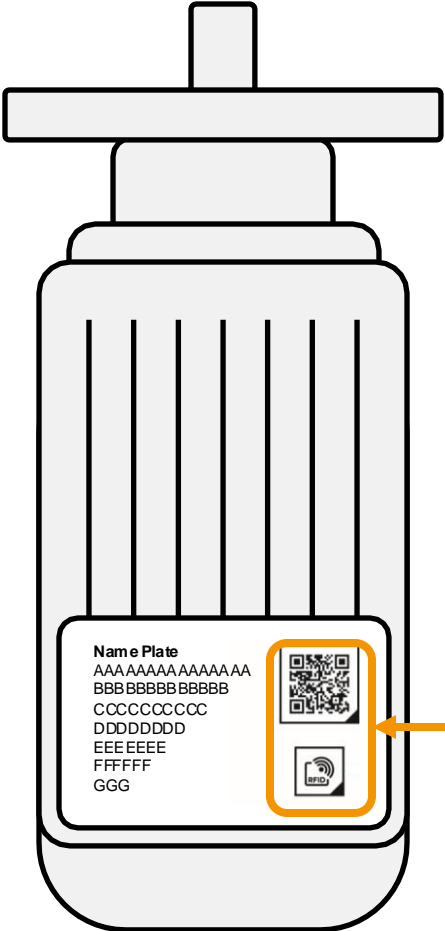
 Manual/Operating instructions	21
 Technical data	
 Asset Administration Shell (AAS)	
 Certificate	39
 Download/Software	10
 Product note	22
 FAQ	25
 Application example	9
 Catalog/Brochure	2

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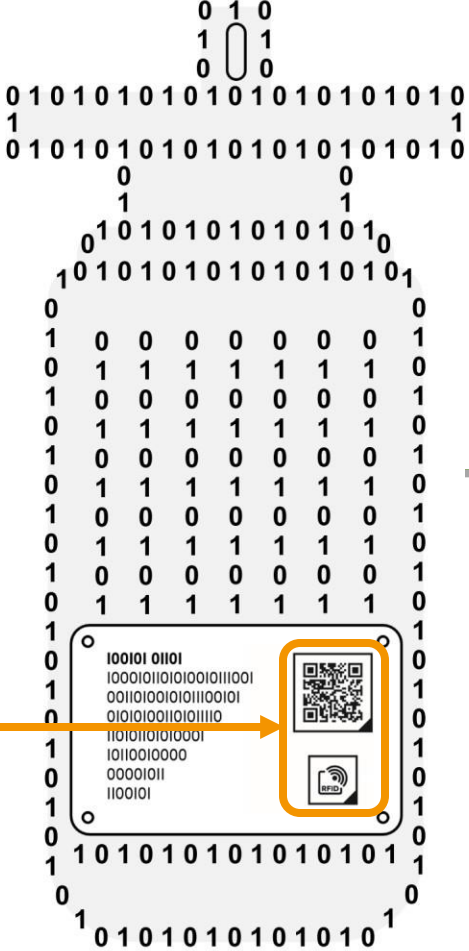
DPP-Reality In the Process Industry. ID Link

physical object



digital twin

digital representation of the physical object



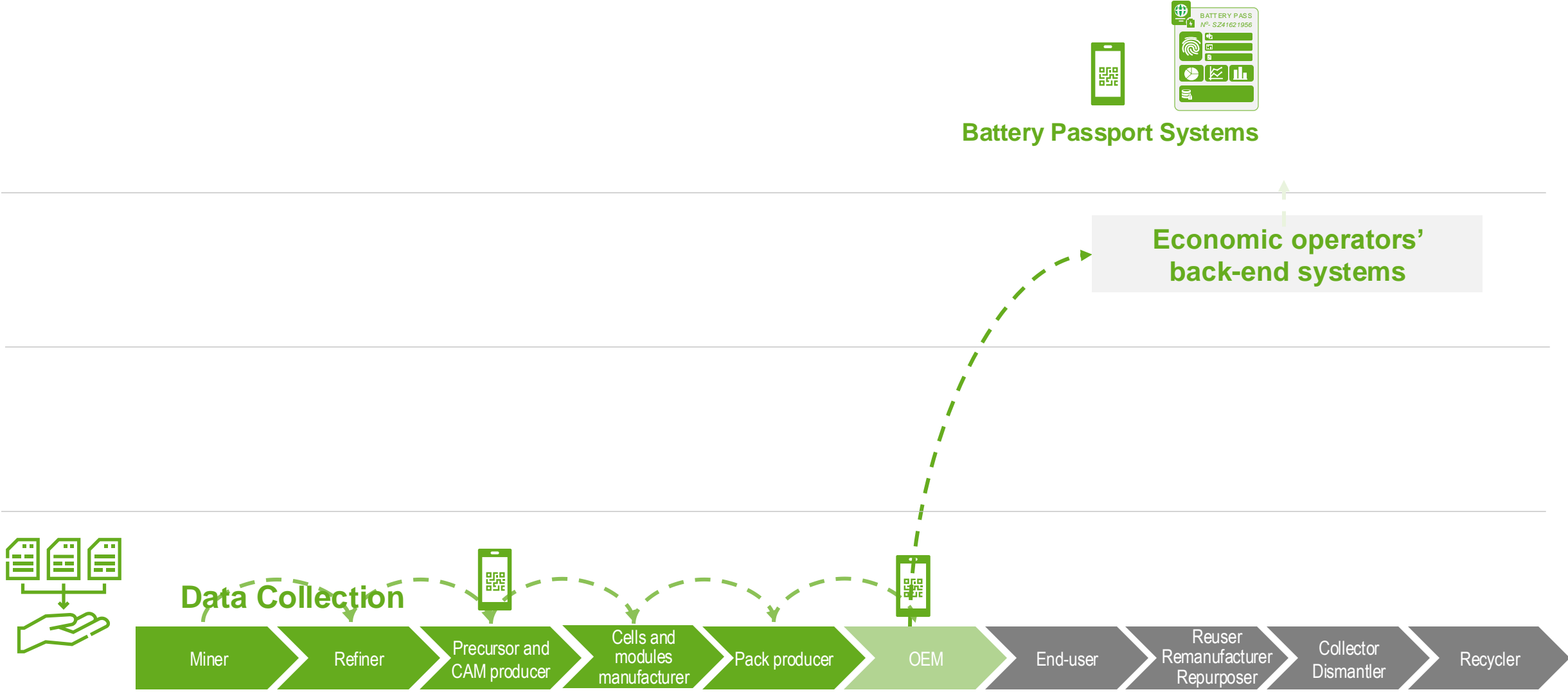
Information model

- tech specs
- documentation
- life cycle information
- ...

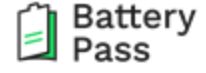
Advantages ID link

- URL based
- 100% cost-free
- 100% interoperable
- From / for the industry

Lessons Learned from the Battery Pass



Data Collection

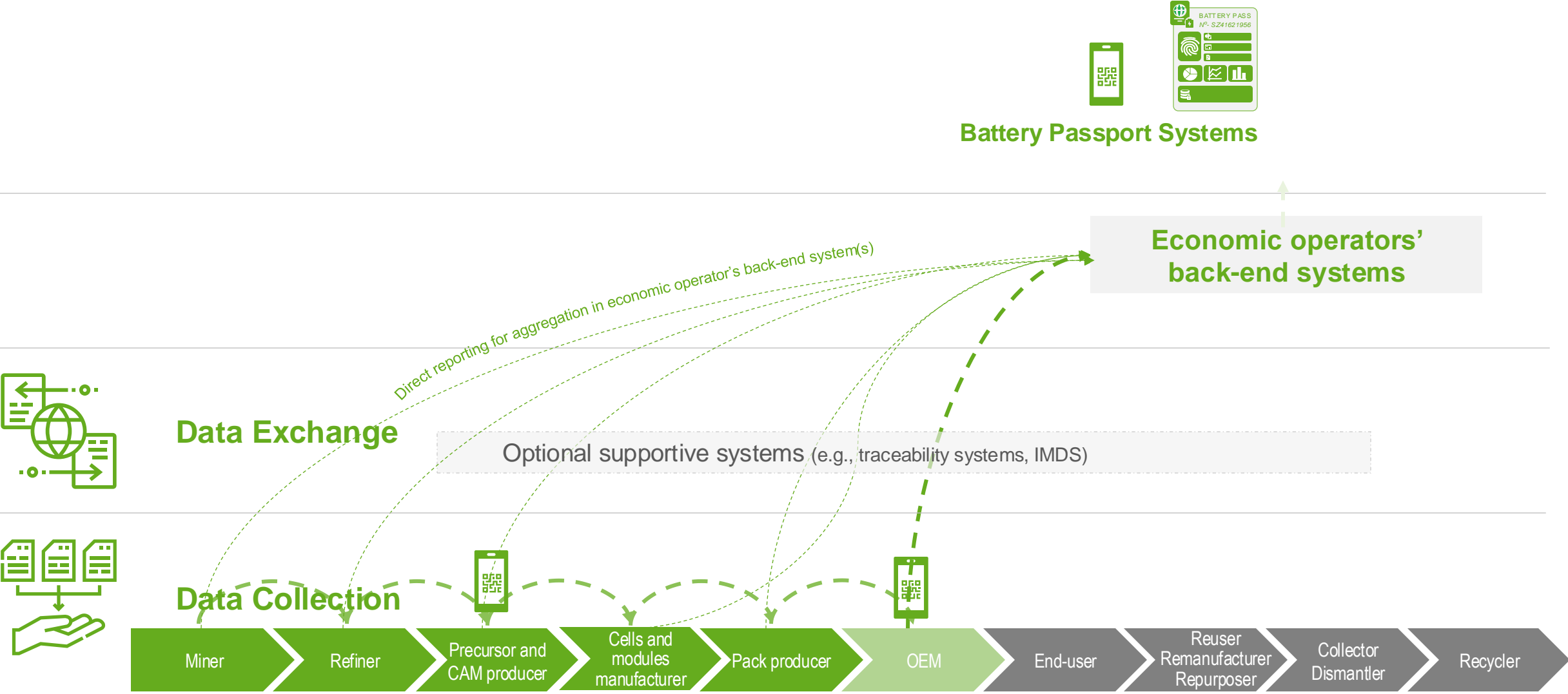


thebatterypass.eu

This project receives funding from the [German Federal Ministry for Economic Affairs and Climate Action](#) by resolution of the German Bundestag under grant agreement No 16BZF335.



Lessons Learned from the Battery Pass

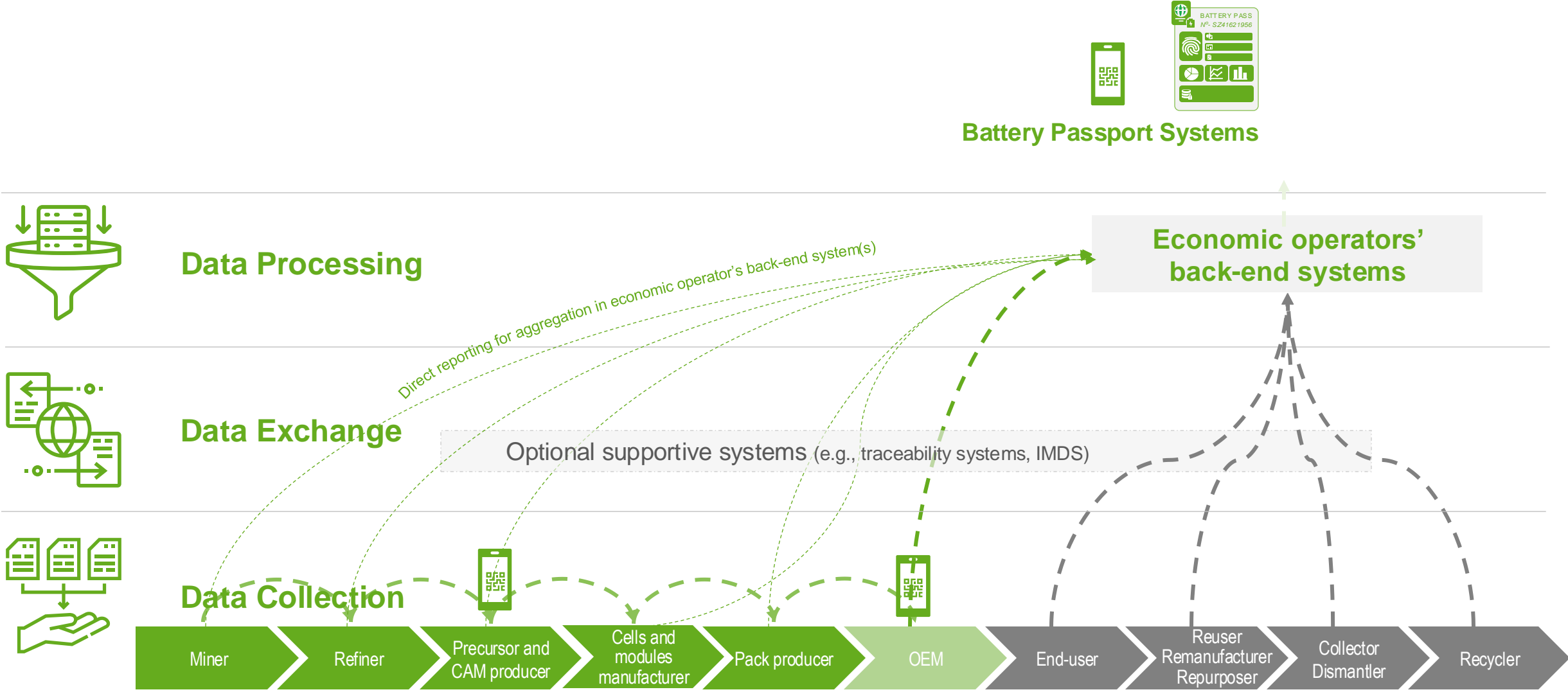


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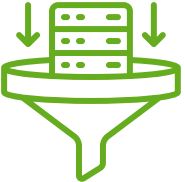


Data Access



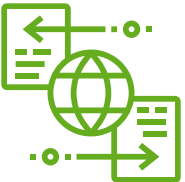
Battery Passport Systems

Product Passport Registry



Data Processing

Economic operators' back-end systems



Data Exchange

Optional supportive systems (e.g., traceability systems, IMDS)



Data Collection



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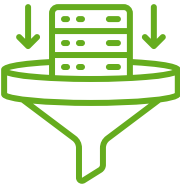


Lessons Learned from the Battery Pass



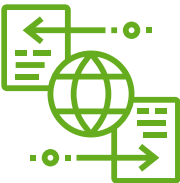
Data Access

Lifecycle Management, Roles & Responsibilities



Data Processing

Audit, Rulesets, Standards



Data Exchange

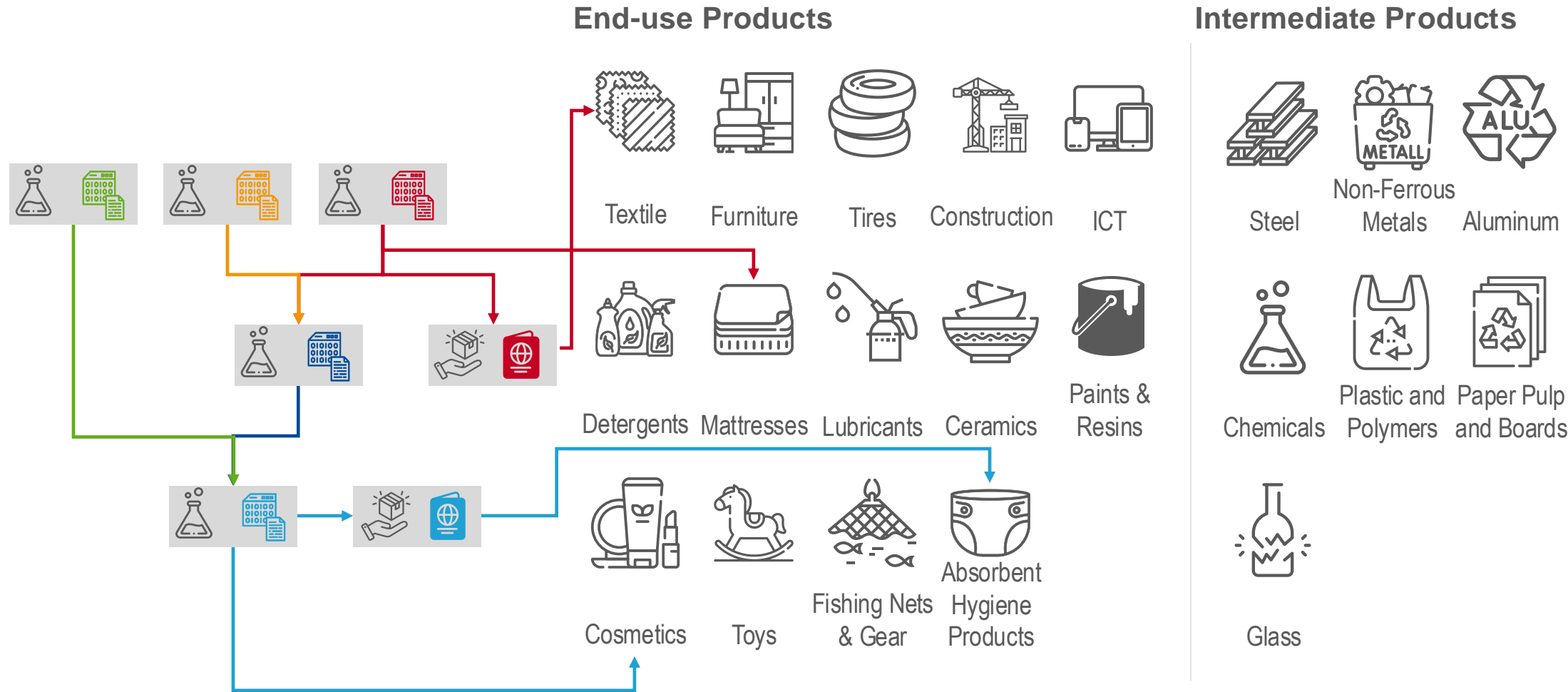
Interoperability (“What”, “How”)



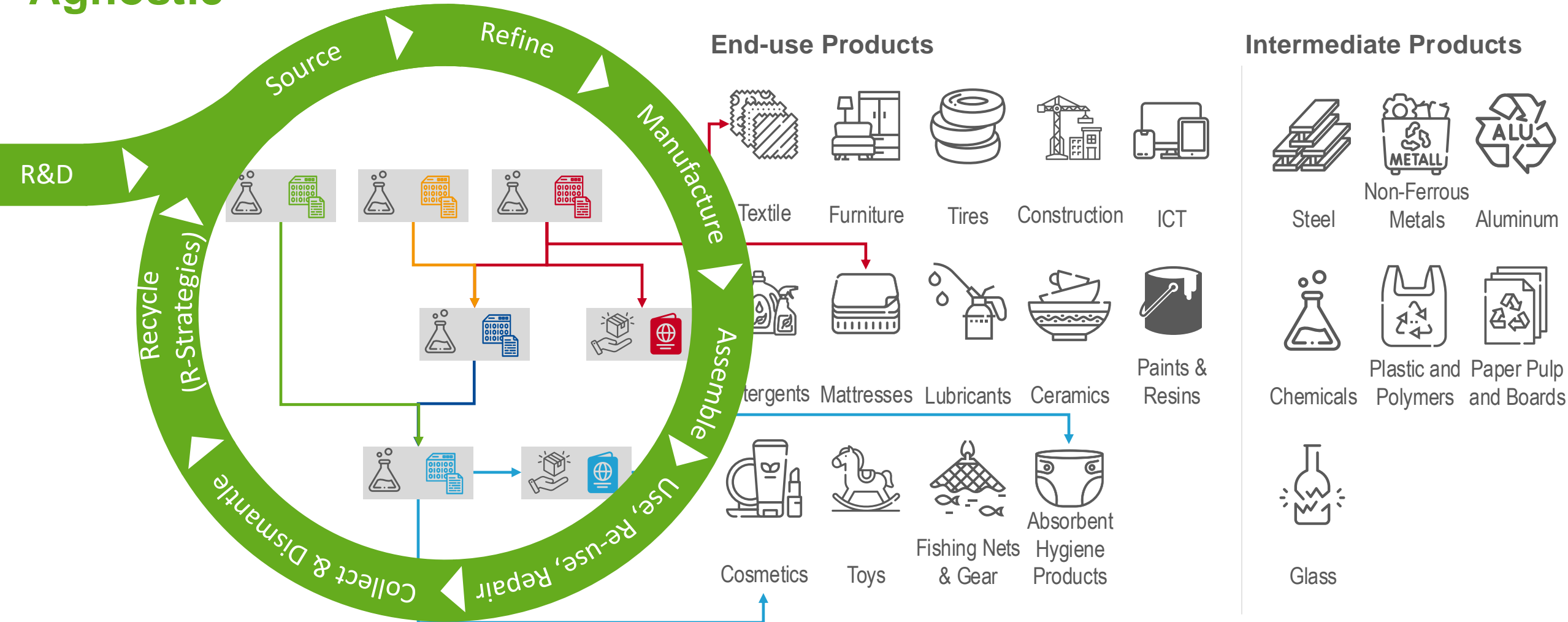
Data Collection

Availability, Automation, Harmonization, Sovereignty, Validation

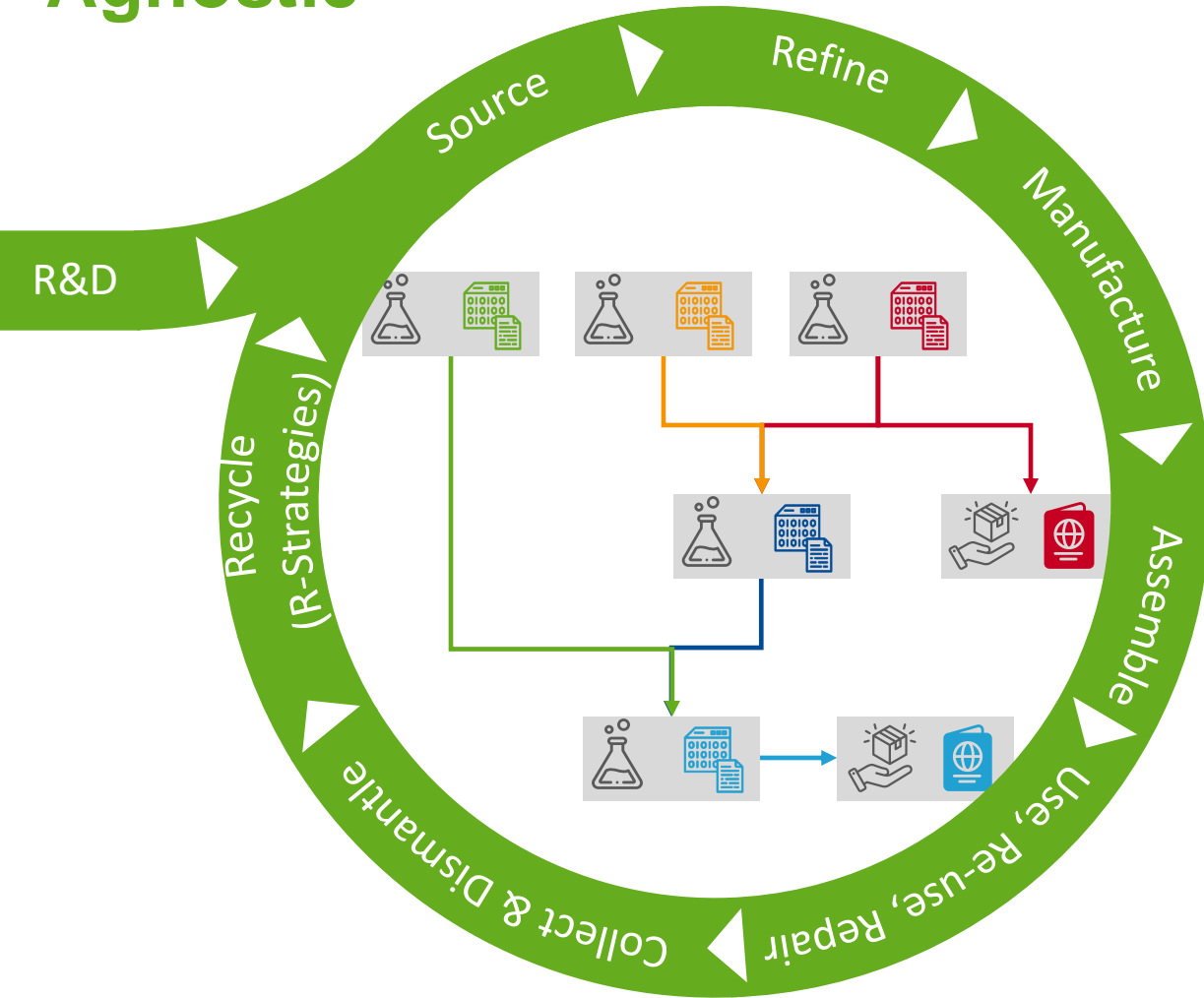
The DPP Data in the Chemical Industry is Horizontal and Segment-Agnostic



The DPP Data in the Chemical Industry is Horizontal and Segment-Agnostic



The DPP Data in the Chemical Industry is Horizontal and Segment-Agnostic



- Horizontal but not segment-specific outlets
- Start with an **essential dataset** (!= data graveyard)
- **One harmonized standard material passport**
- Support Supply communication
- Fosters R-Strategies

Executive Summary

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