

Expert Group Profile

Description of the Expert Group

Related Committee	<i>Sustainability Committee</i>
Name of the Expert Group	<i>Material Accounting & Circularity EG</i>
Association Contact	<i>Stan Faldin</i>

Description / Challenge / Initial Situation:

The group provides a platform for addressing some of the most pressing challenges facing the automotive industry: How can recyclates become more available and economically viable? How can quality, traceability, and trust in secondary materials be ensured? How can companies meet increasing regulatory requirements while avoiding greenwashing risks? Together with industry stakeholders, we develop and validate standards, data models, and digital solutions that enable transparent material flows, reliable circularity claims, and scalable end-of-life processes. We work on defining and implementing solutions required by emerging circular economy strategies and regulations, including the End-of-Life Vehicles (ELV) Regulation, such as standardized material information, circularity passports, mandatory dismantling information, and certificates supporting circularity and recovery claims. Our goal is to establish the foundations for higher recyclate availability, improved material quality and transparency, reduced investment risks, and regulatory-compliant circular economy solutions across the automotive value chain.

The Material Accounting & Circularity Expert Group brings together previously independent expert communities by consolidating these activities into a single Expert Group, we aim to strengthen collaboration, accelerate implementation, and create a unified approach towards a data-driven circular economy.

Challenge:

The transition towards a circular economy requires efficient collaboration between OEMs, dismantlers, recyclers, and downstream material processors. However, previous learnings from industry stakeholders revealed that the end-of-life value chain remains highly fragmented, with limited digital integration and a lack of standardized data exchange across participants. At the same time, upcoming regulatory requirements, particularly the End-of-Life Vehicles (ELV) Regulation, are expected to become a key driver for OEMs to engage more actively in circularity, material transparency, and end-of-life data management. Dismantlers represent the critical entry point into the end-of-life ecosystem, as they determine how vehicles and components enter data-driven recycling and recovery processes. At the same time, they are particularly difficult to engage: many operate with low margins, are highly cost-sensitive, have limited digitalization capabilities, and are typically not integrated into traditional automotive supply chain structures. As a result, the successful adoption of scalable digital solutions and industry standards depends on low entry barriers, tangible business value, and close collaboration across the ecosystem.

The Expert Group therefore aims to establish the foundations for data-driven recycling and end-of-life by identifying required data, defining interoperable data models, validating data sources such as IMDS and other industry systems, and translating operational industry needs into scalable Catena-X standards and solutions.

Goals:

The Material Accounting & Circularity Expert Group supports the transition towards a data-driven circular economy within the Catena-X ecosystem supporting emerging regulatory requirements, including the End-of-Life Vehicles (ELV) Regulation. By enabling standardized and automated access to regulatory-relevant

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information, the group helps reduce administrative effort and compliance costs across the ecosystem. Furthermore, improved transparency and traceability support brand protection, reduce the risk of fraud and greenwashing, and enable better steering of value chains. The development of common standards and interoperable solutions lowers transaction costs, accelerates industrialization and automation, and creates growth opportunities for end-of-life ecosystem participants. Ultimately, the group contributes to increasing the availability, quality, and affordability of recyclates by enabling circularity to scale across the automotive industry. As a starting point the following workstreams have been identified with first tangible deliverables to kick off work towards the mentioned strategic goals:

1. Industrialization and Strategic Stakeholder Engagement for the Material Accounting Standard

- Drive and support current App development activities for adoption
- Continuous enhancement of the Material Accounting Standard CX-0159, KIT, and Data Model through technical and operational pilots in real-life environments.
- Define a value proposition for larger dismantlers with industrialized operations as a potential target group
- Support VDA collaboration to establish Material Accounting as industry standard
- Alignment on process and data requirements for the Material Accounting use case data exchange with IMDS
- Drive adoption by Use Case representation on relevant fairs and events

2. Enablement of Circularity, Data-Driven Recycling and End-of-Life Services

- Evaluate and develop a value proposition for data-driven dismantling, recycling, and material recovery processes to increase the participation of dismantlers, recyclers, and other end-of-life stakeholders in the Catena-X ecosystem.
- Develop concept to aggregate material and components from small dismantlers via logistic and software providers to Catena-X (like Hub&Spoke concept) considering Catena-X guardrails.
- Support the reach out to associations like BVSE and similar to create awareness and need on collaboration towards data driven processes for End-of-Life
- Identify and validate the processes and data requirements for Circularity, recycling, secondary materials, and end-of-life processes, including the assessment of data sources such as IMDS and other relevant systems.
- Collaborate with relevant industry projects and initiatives such as Manufacturing-X, ReDriveS, EDCar, etc. and reflect their findings into Catena-X standards and use cases.
- Evaluation and update of existing Circularity Core Standard CX-0131 and KIT

Why should I participate?

- Shape industry standards for Material Accounting and Circularity.
- Collaborate with experts from across the automotive and recycling value chain.
- Contribute to interoperable standards, data models, and use cases.
- Gain first-hand insights into regulatory and industry developments.
- Exchange practical experience and user feedback to improve adoption.
- Help accelerate the transition towards a data-driven circular economy.

Participation requirements:

- Minimum availability of **10 hours/month** (bi-/weekly meetings)
- Commitment to regular participation and contribution
- Experience with Circularity or Material Accounting
- Knowledge of other Catena-X standards and IT background is a plus

For more information on the responsibilities of an Expert Group, have a look at the [Working Model](#).