Use Case CO2/ESS
Motivation.

Enabling better Due-Diligence through understanding supply chain risks

Reducing Carbon Emissions through understanding scope 3 emissions [1]

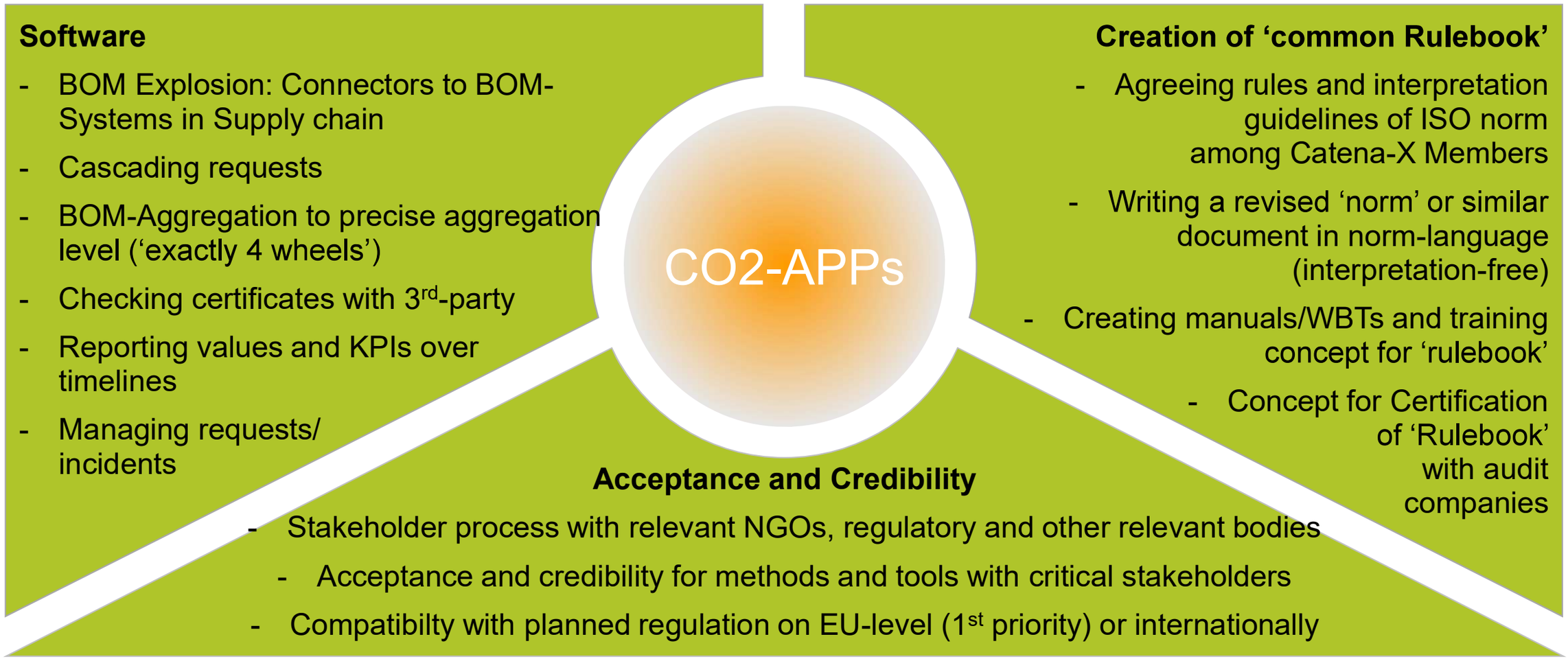
Credibility and Compliance through transparency and world-class reporting [2]

1 Regensburger Nachrichten

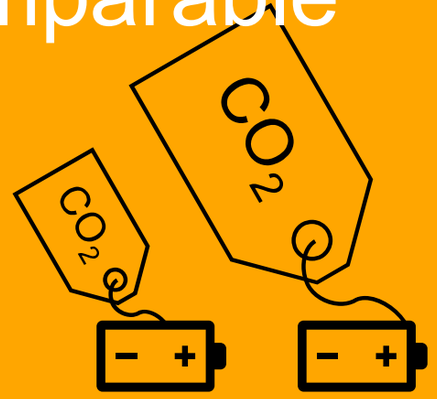
2 www.mneguidelines.oecd.org

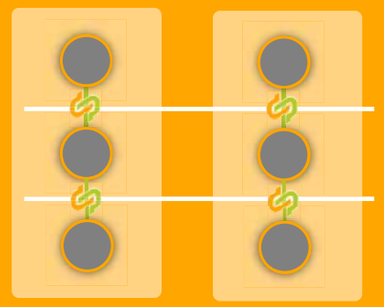
Catena-X Automotive Network

The CO2-Applications need three separate workstreams to be successful



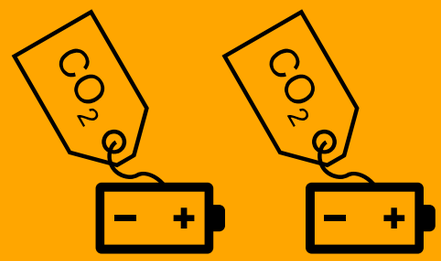
The Goal of the rulebook is to make CO2 Reporting comparable

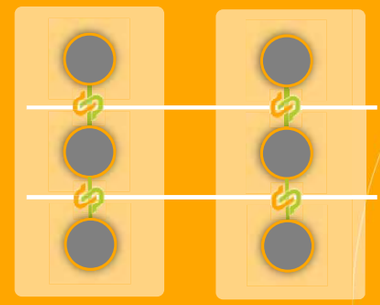




FROM

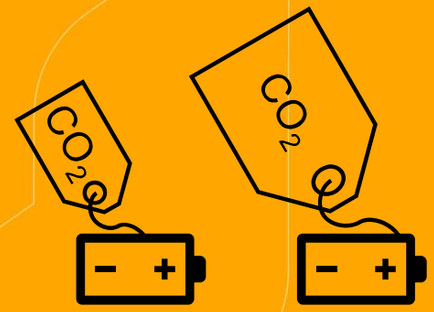
- Identical products
- Identical supply chains
- Different product carbon footprint

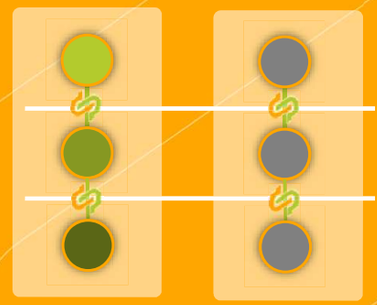




TO

- Identical products
- Identical supply chains
- Identical product carbon footprint



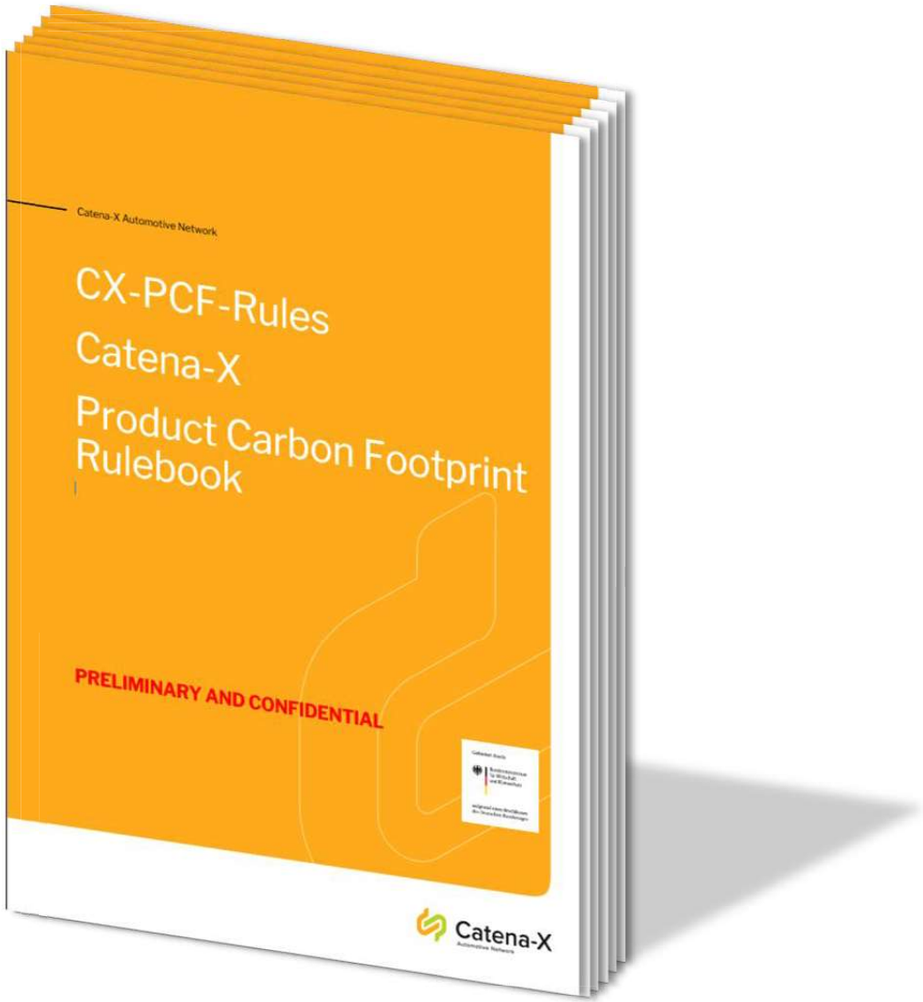


SO THAT

- Different carbon footprints of different supply chains are trustworthy

Catena-X
Automotive Network

Goal of the Catena-X PCF rulebook



- Moving away from using industry average measurements towards **using real emission data of the real supply chain.**
- Standardising measurement and reporting along the supply chain to **make CO_2 emission data comparable**
- Definition of standardized & WBCSD/**Stakeholder-approved** CO_2 calculation schemes and methodologies

[1] World Business Council for Sustainable Development
[2] Global Battery Alliance

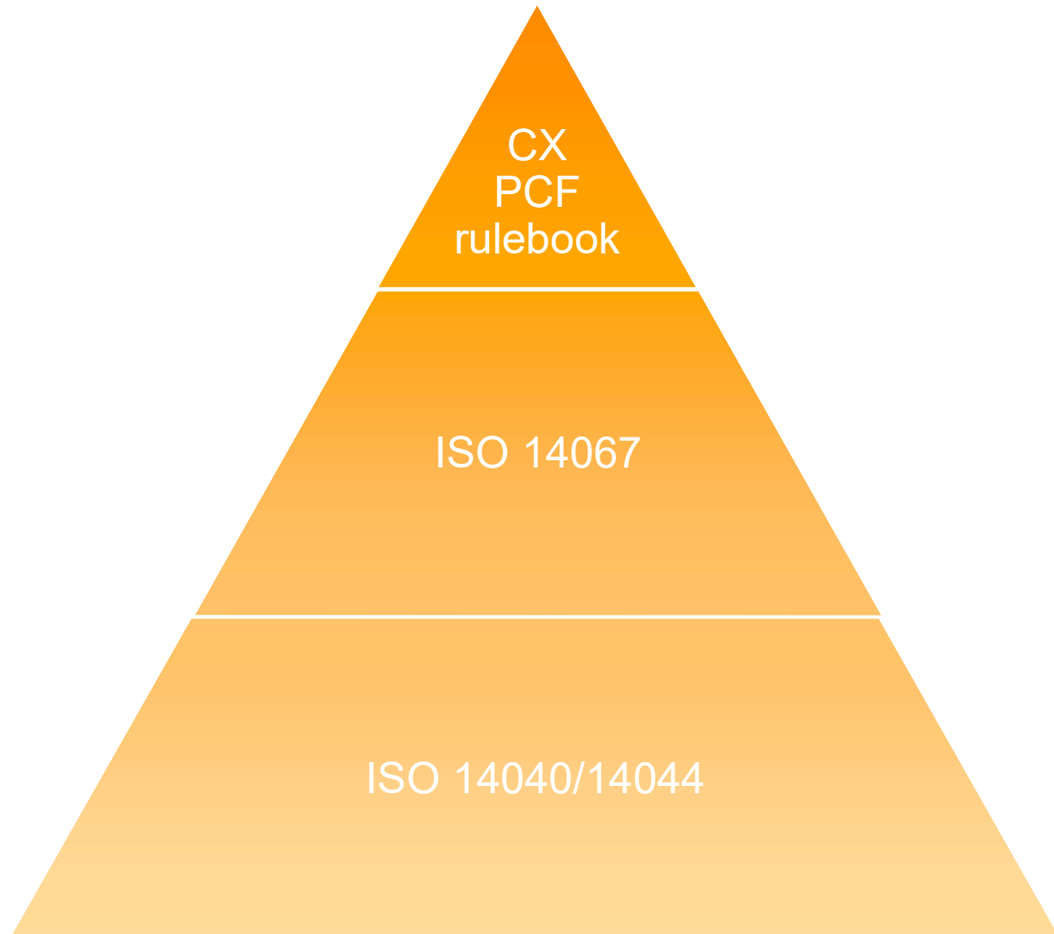
The Catena-X PCF rulebook is based on existing norm

Foundation of CX-PCF rulebook:

- LCA standards ISO 14040/14044, and
- the carbon footprint standard ISO 14067

Hierarchy of application:

1. The CX PFC shall be compliant to ISO 14067.
2. Automotive supply chain specific requirements shall be applied as defined in this document.
3. Sectoral-specific and product-specific rules if prescribed within the CX-PCF rulebook.



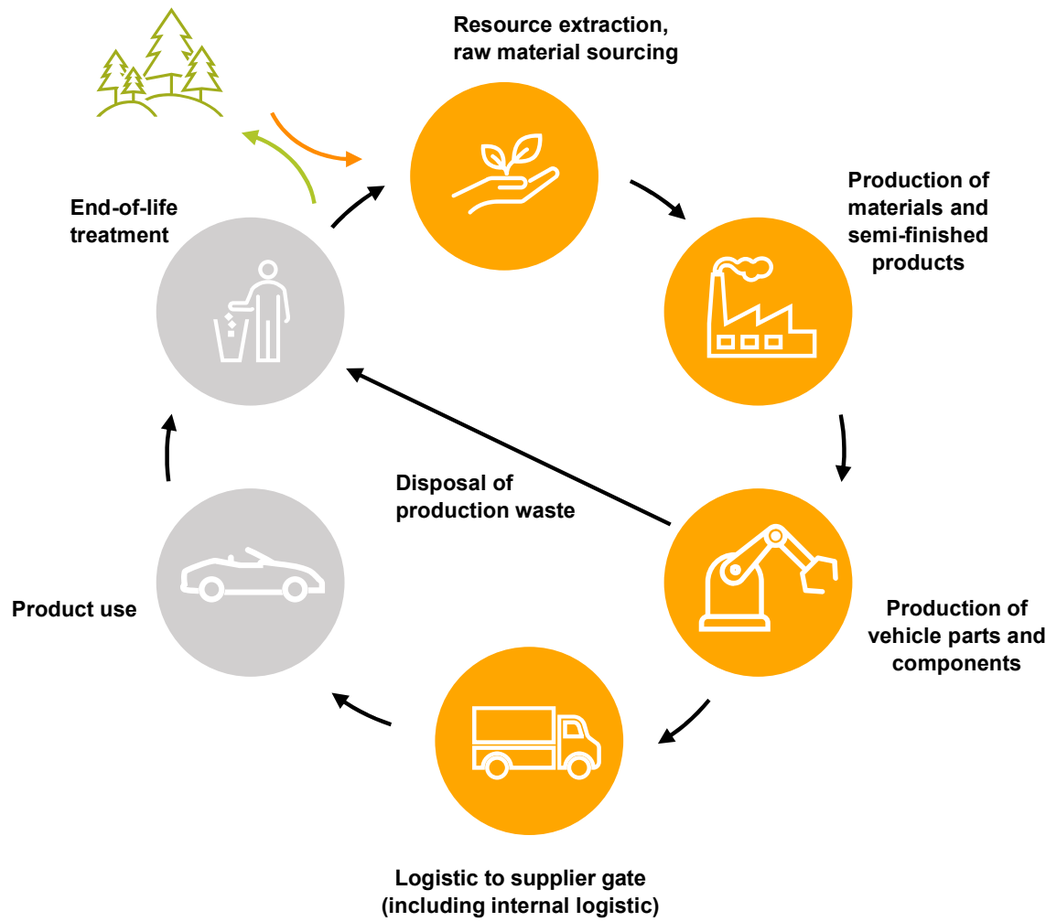
Example of Topics covered: System Boundaries

Cradle-to-supplier gate PCF:

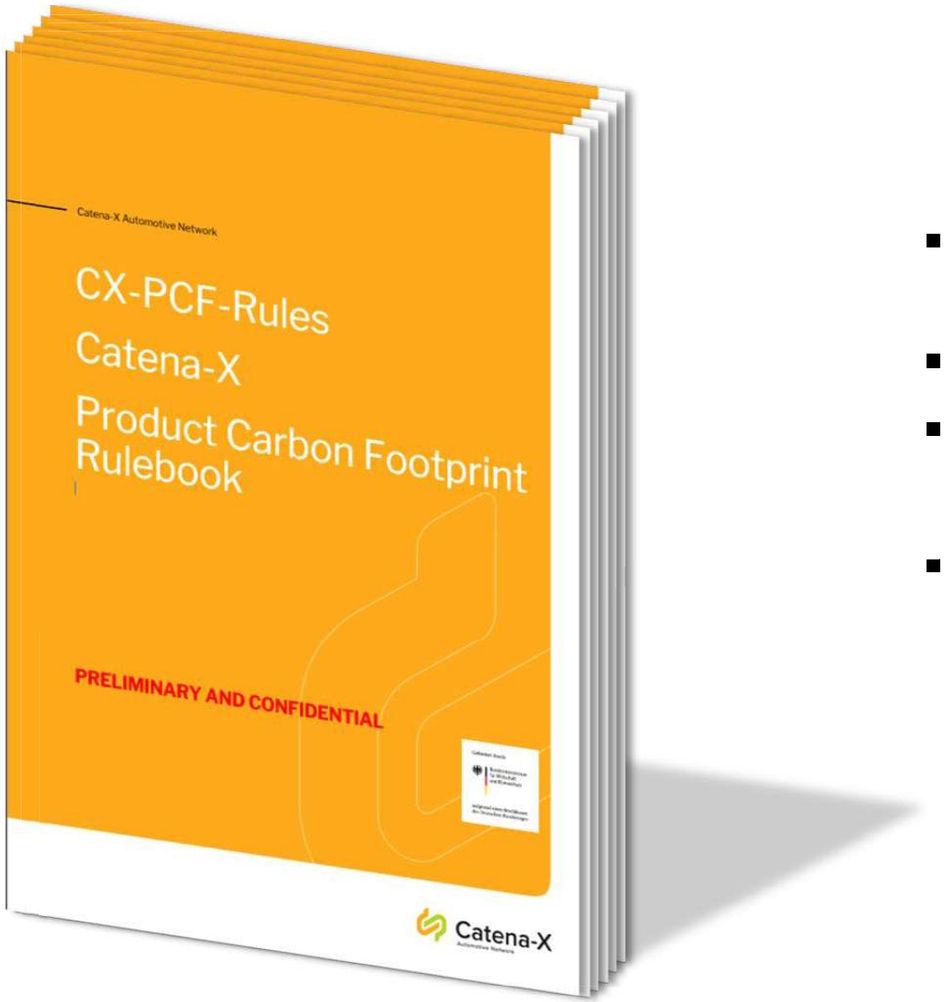
- including all upstream transportation activities.

- excluding any downstream emissions, e.g.,

the product use and end-of-life treatment stages



Goal of this document



- Basic rules (‘80%’) are agreed between member companies
- **Formal Document is being written**
- **Stakeholder process started**

- Stakeholder consultation: NGOs, regulatory bodies, industry organisations

[1] World Business Council for Sustainable Development
[2] Global Battery Alliance

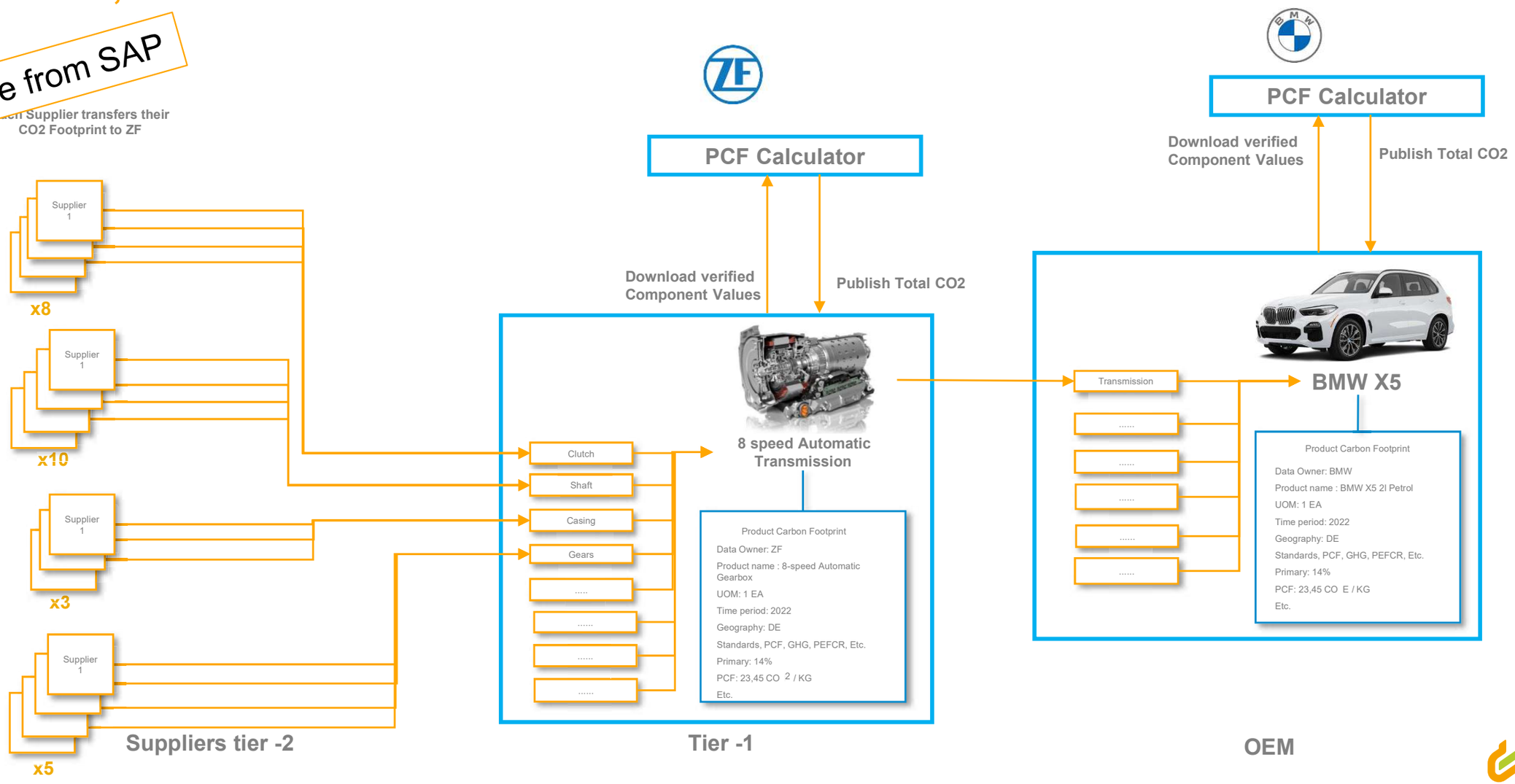
Further topics

- → Certificates of energy suppliers
- → Rules of custody: Segregation, Book & Claim, Mass-Balance
- → Sensitivity analysis and its documentation
- → Data quality data indicator
- → Accounting for transport emissions
- → Material origin: Recycled content, bio-based content, CO_2-based content)
- → Specific components of PCF (total/fossil/bio/land-use/aircraft)
- → Compensation and Off-Setting

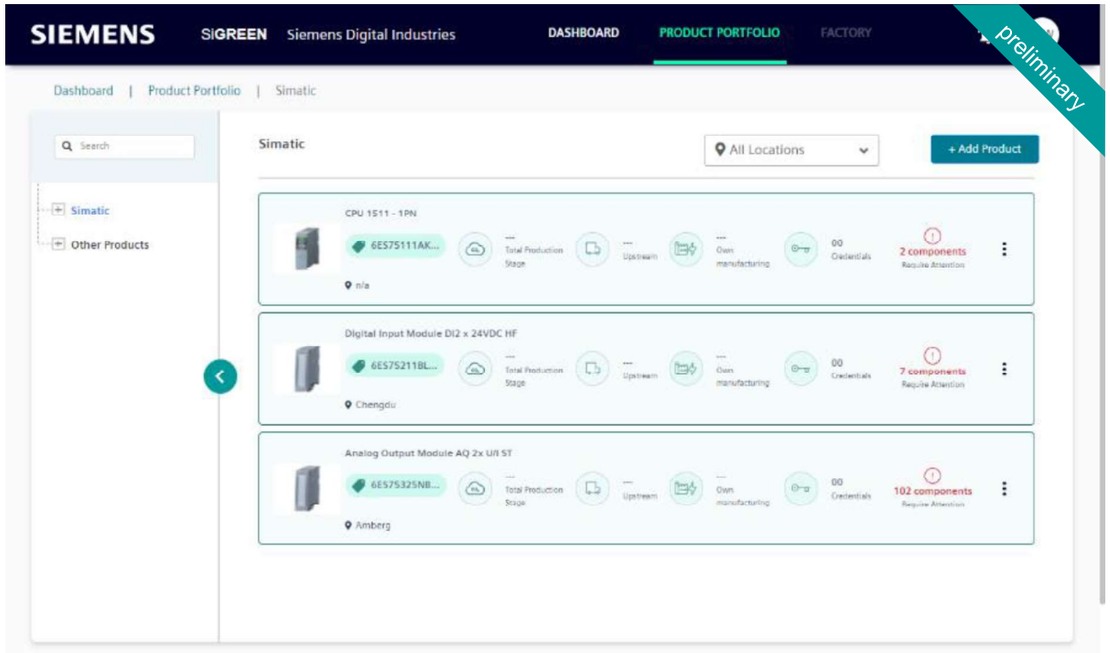
WORK ON SOFTWARE APPS BASED ON SPECIFICATIONS HAS STARTED, FIRST WORKING MVP PLANNED FOR MAY

Example from SAP

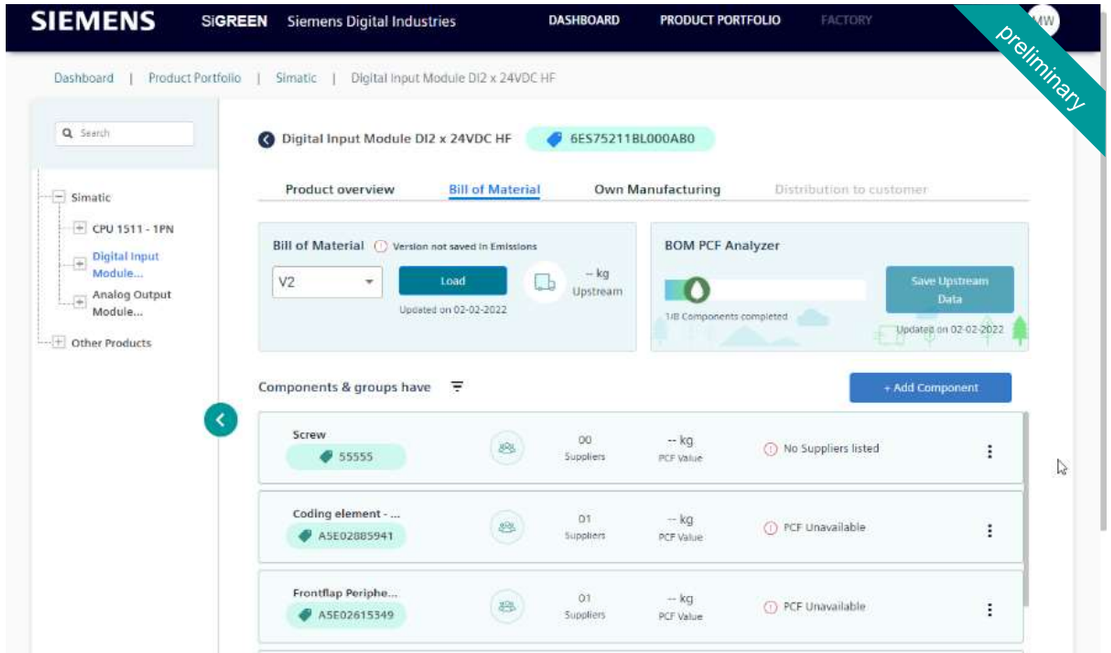
...ch Supplier transfers their CO2 Footprint to ZF



Preview for CO2-App: Siemens SiGREEN
PCF management and data sharing along the supply chain



Product portfolio overview shows main PCF info and need for action



Bill of Material allows to manage multiple suppliers per product and shows data source (from LCA estimation to certified primary data)

Use Case Sustainability/CO2

Next steps

Done

First Draft of basic Cx PCF Rulebook

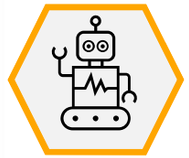
Specifications: Customer journeys and further specs

First version of applications based on Sigreen and SAP Technology

Planned (PI-3)

Consolidating and finishing basic Cx PCF rulebook -> publishingh draft document

Systematic stakeholder engagement process (with WBCSD)



Developing the MVP according to specs with SAP and Siemens

Defining future features and specs for later releases