

THE FIRST OPEN & COLLABORATIVE DATA ECOSYSTEM

Niels Angel, BMW Group
Project lead Sustainability @Catena-X

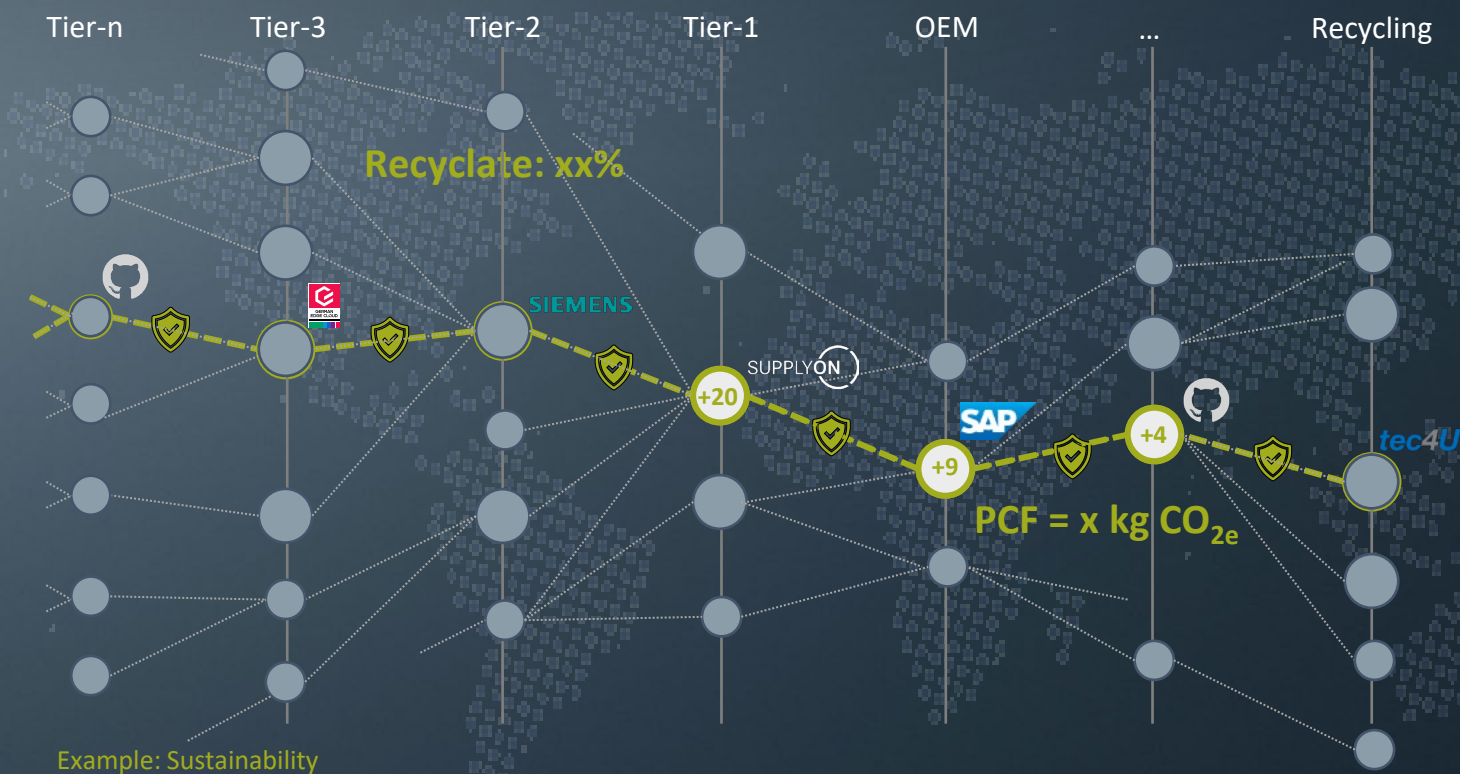
Catena-X is building an ecosystem to digitise the automotive supply chain

Build a **global data space** that can host our industry



optional adjacent industries

Create the first **data driven value chain**; incorporating all participants via **interoperable** and trusted solutions



The Catena-X association has currently more than 120 members, and it's open to all interested parties

Consortium



Association



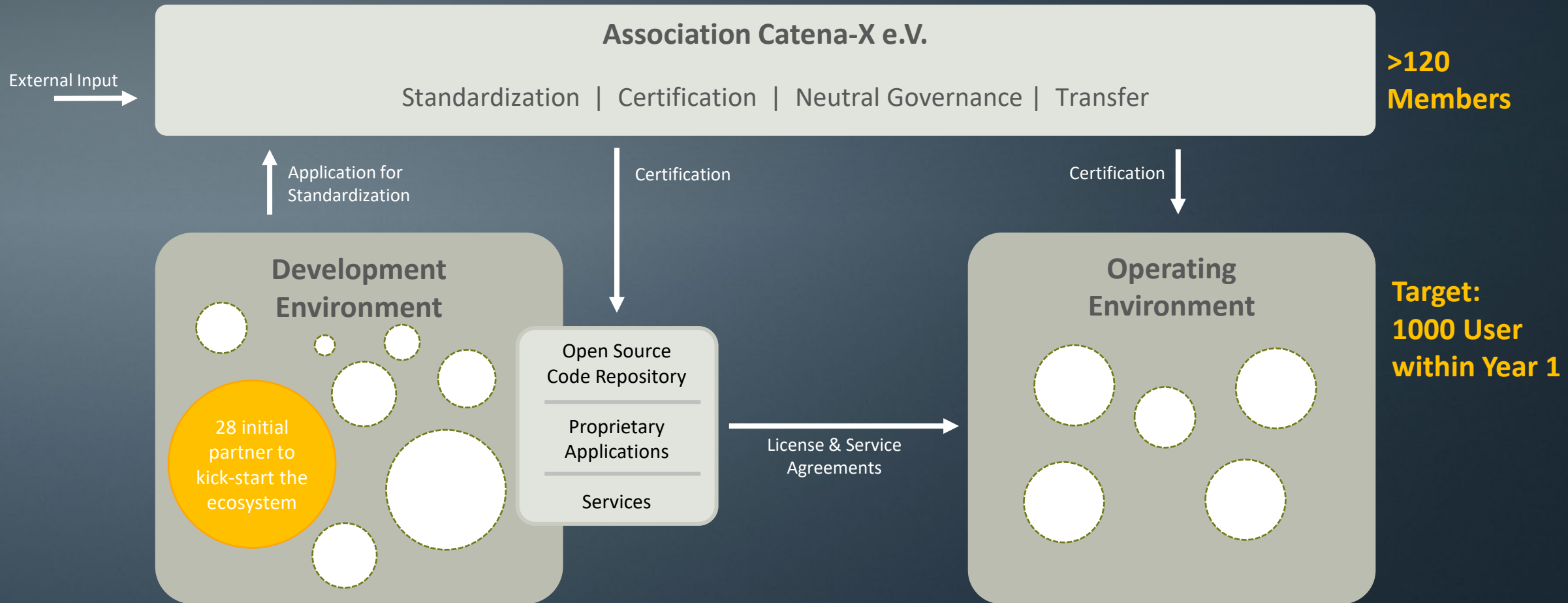
For the complete list of all members, please visit www.catena-x.net



 Pot. Catena-X Hubs

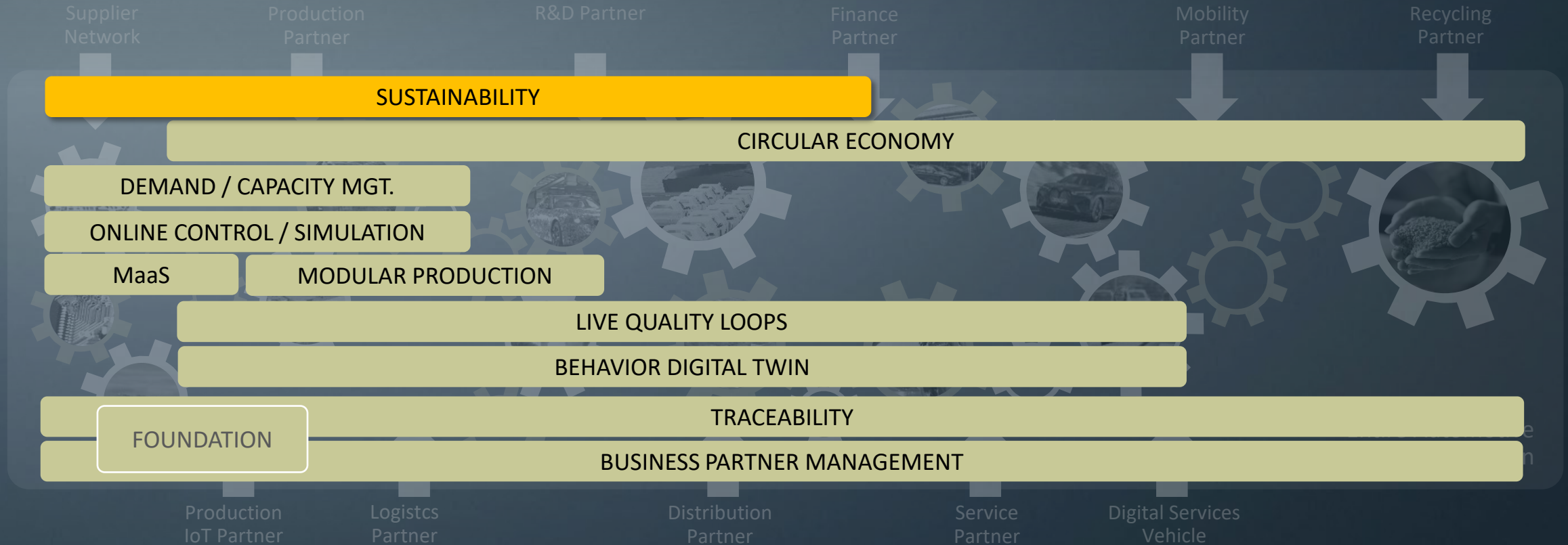
 Starting Point
German Automotive Industry

It takes an Open and Balanced Approach to build and run a Global Data EcoSystem for the Industry



The First Use Cases to Kickstart the Network

10 business-critical end-to-end use cases





Challenge: No access to accurate, specific primary data of PCF in the supply chain

Status quo:



Little specific information on Product Carbon Footprint in the supply chain
No transparency regarding actual process efficiency or actual energy usage

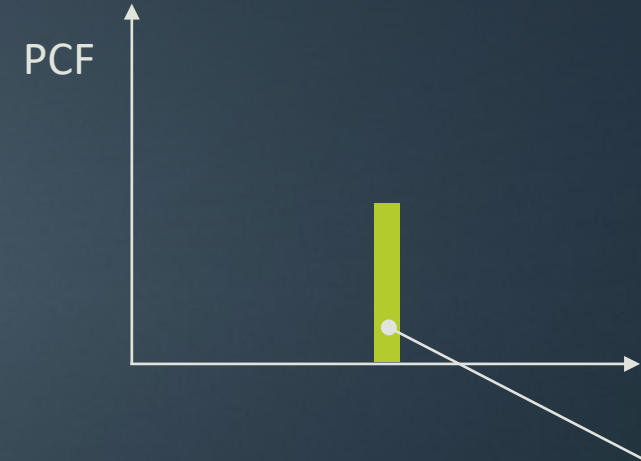


Inconsistent methodology / standards für die PCF calculation

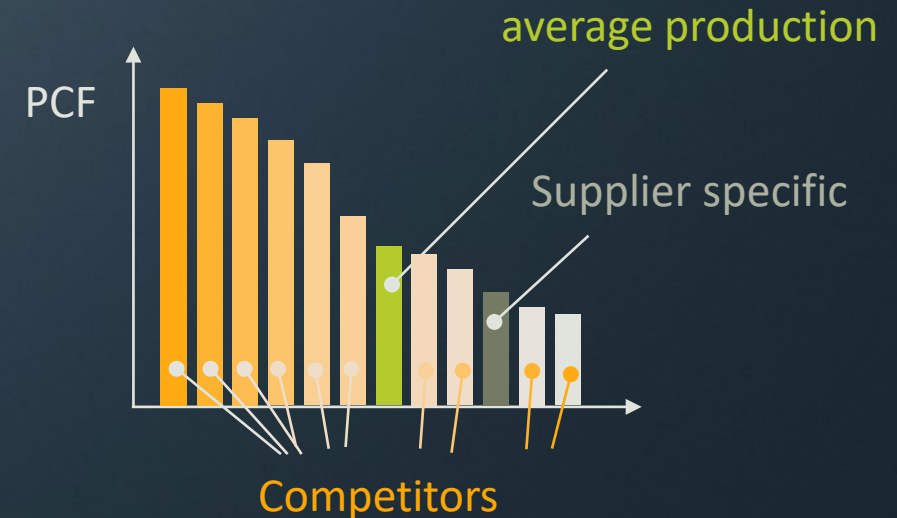
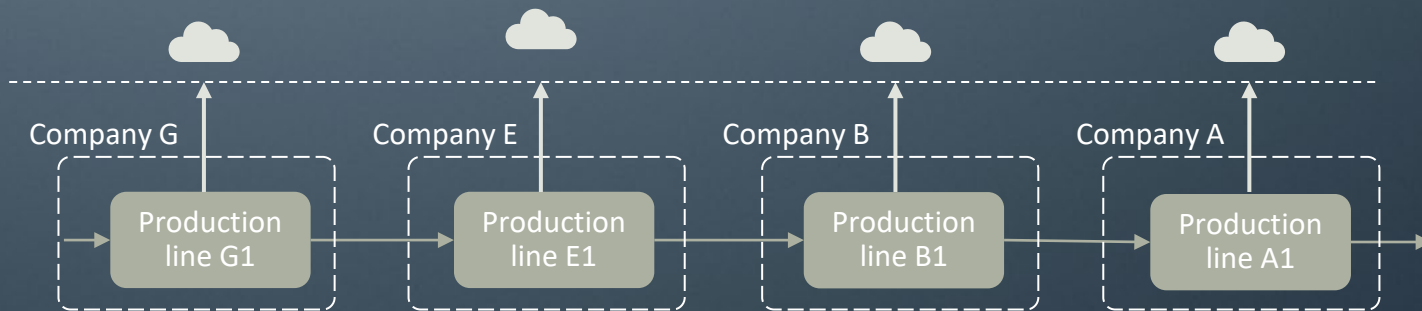
Today: PCF calculation using technology averages from LCA databases

Average data blurs any differences in supply chains and fails to measure reductions in your supply chain

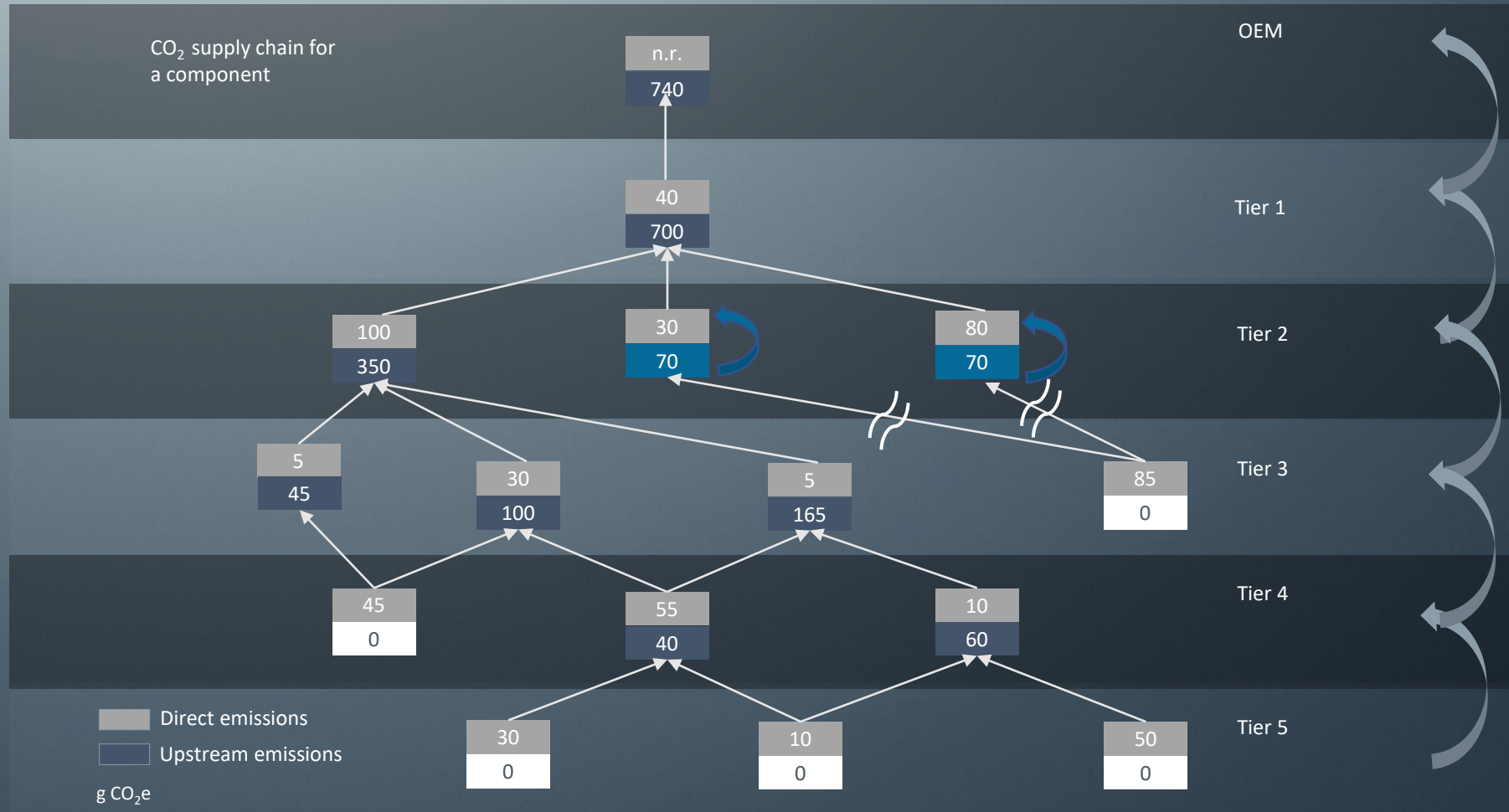
Established methods



Supplier-specific, primary data



Catena-X aims to exchange PCF based on primary data along the value chain wherever possible...



Quality indicators like primary data share allow for a system which is improving over time, improving quality along with a growing network!

... falling back on recognized database values when necessary

Catena-X records the PCF along the entire automotive supply chain to improve reporting efficiency and to reduce GHG emissions in a sustainable and traceable manner



Capture GHG emissions data based on real **processes and site data to measure, reduce and report.**



Identification of hotspots



Definition and implementation of measures in the n-tier chain



Efficient and credible reporting of PCF values and achieved reductions

Goal: Replace average values from databases with specific data over time



Catena-X has identified 5 core tasks to enable PCF measurements along the value chain



Rulebook

PCF calculation guidance



PCF Exchange Format

Unified data model based on rulebook



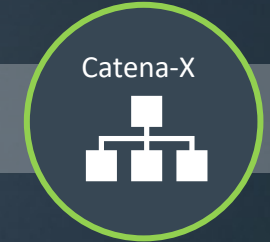
Calculation support for SMEs

Calculation support apps and ecosystem for small and medium enterprises



PCF Verification & Audit

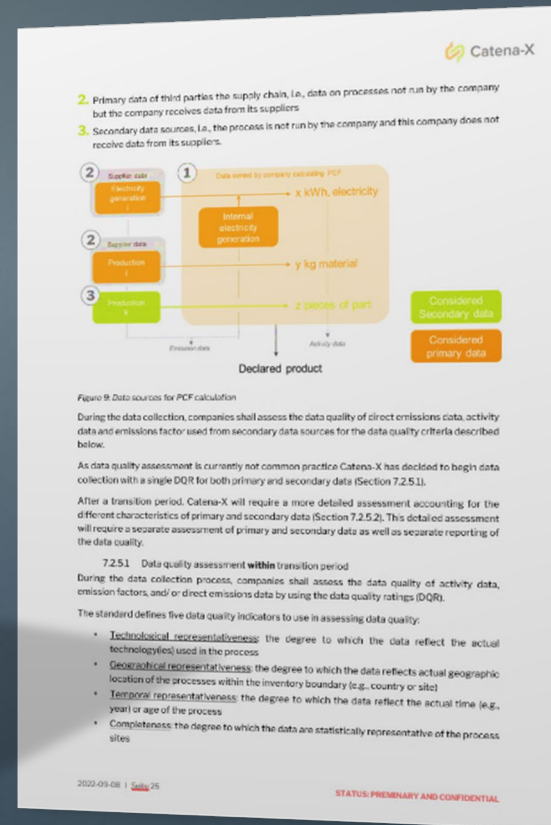
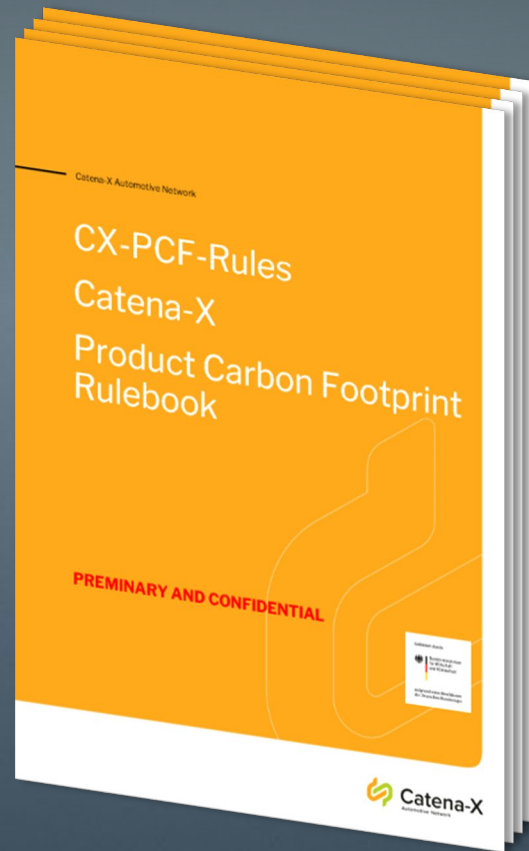
Streamlined processes to build trust along the supply chain while minimizing efforts



Infrastructure for PCF

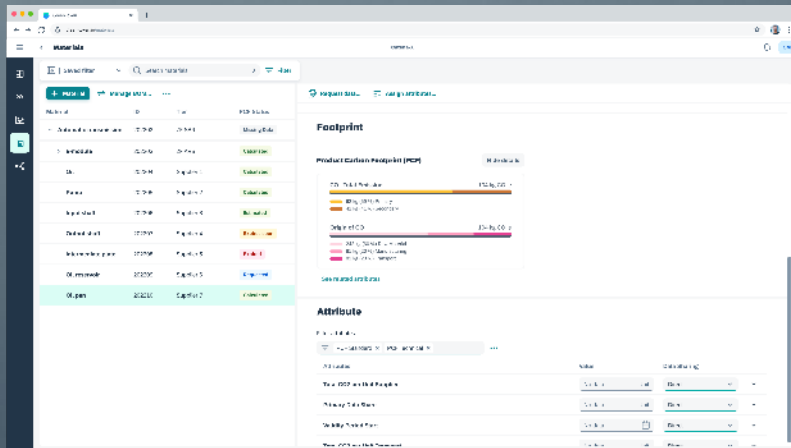
Exchange software solutions

Catena-X has already worked on a draft for a common rulebook, to be consulted and further developed with interested parties

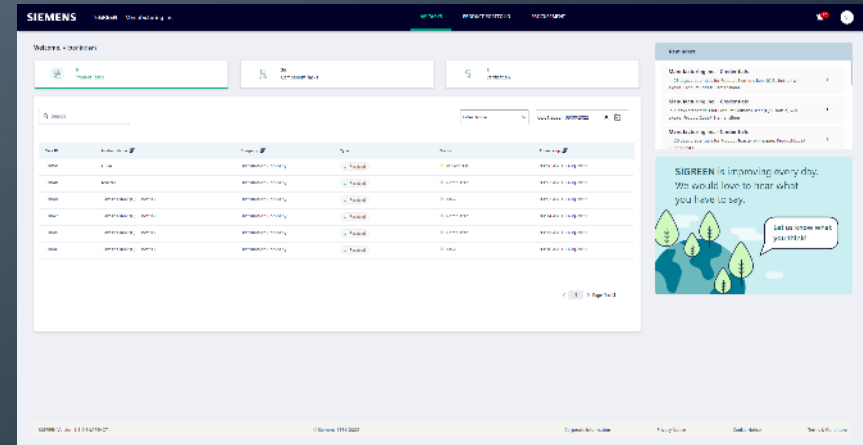


- **Goal:** Standardising measurement and reporting along the supply chain to make CO₂ emission data comparable.
- **Team:** LCA Experts of Catena-X Consortium and Association
- **Collaboration:** WBCSD A-Pact
- **Timeline:** Consultation Process starting now

Interoperable Apps exchange data via standardised connectors, data-model and with a common methodology



SIEMENS SiGREEN



Interoperable Apps exchange data via standardised connectors, data-model and with a common methodology

Questions?

Niels Angel, BMW Group
Project lead Sustainability @Catena-X
Niels.Angel@bmw.de

Visit us:

www.catena-x.net

<https://www.linkedin.com/company/catena-x-automotive-network>

