

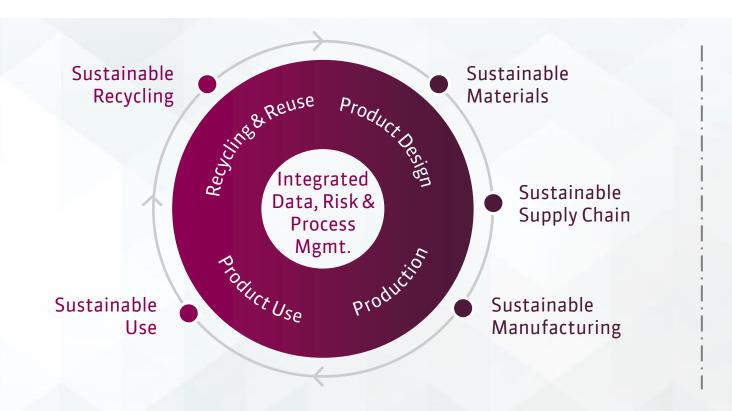
The Journey to PCF- and LCA-Automation for complex products and production systems

June 7th, 2023 | LCA-Discussion-Forum | Martina Prox

iPoint-systems

Building a digital decarbonized circular economy





Our Purpose

Advancing digitalization for sustainable change.

Our Vision

To be the best partner for fully digitalized life cycles of truly sustainable products.

Our Mission

To accelerate the transition to the circular economy.

2001

locations worldwide

14

170+

70,000

ISO

20+ years experience in compliance and sustainability

employees and growing

global manufacturers among customers

250

users from 100+ countries

ISO 9001:2015 and ISO/IEC 27001:2013; more than 30 awards

iPoint develops software for...

iPoint

Compliance, Sustainability, Circularity and Risk Management



Carbon Reduction/NetZero Commitments Sustainability Target #1 "Net Zero" by 2050, 2035, 2040 ...

VOLKSWAGEN







DAIMLER

SUSTAINABILITY

FORD MEDIA CENTER

Building a Better World – Ford Announces Steps Towards Carbon Neutrality, Sets Significant Emissions Goals for 2035

CLIMATE / RESOURCES / CITIES / SAFETY / DATA / HUMAN RIGHTS / BASICS



☐ • BASF
We create chemistry

BUSINESS & FINANCIAL NEWS | March 26, 2021

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/ledia

BASF presents roadmap to climate

neutrality

Magna commits to carbon neutrality in global operations by 2030

nters a new era in the company's sustainability journey with its announcement to

PRESS RELEASE October 27, 2021

Apple charges forward to 2030 carbon neutral goal, adding 9 gigawatts of clean power and doubling supplier

bally by 2050¹
O₂ emissions already by 2030
ed by 2030

s goals on its journey to climate missions by 2050. Based on the most

Philips wants its suppliers to get serious about climate change

Osram commits to becoming climate ne



As part of our action plan to put us on a neutrality by 2050, we are committed to and advancing technologies to manufact products using less resources.

Protect the climate

Our target

Companies

Philips Says It is Carbon-Neutral Now

Published on: 10 June 2022

By 2030, Dow will reduce its net annual carbon emissions by 5 million metric tons versus its 2020 baseline (15% reduction). By 2050, Dow intends t carbon neutral (Scopes 1+2+3 plus product bene

The health technology company said yesterday that the initiative would be seven times more impactful than Philips' own carbon dioxide emission reductions.



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Ambition 2039: Our

CO₂-neutrality

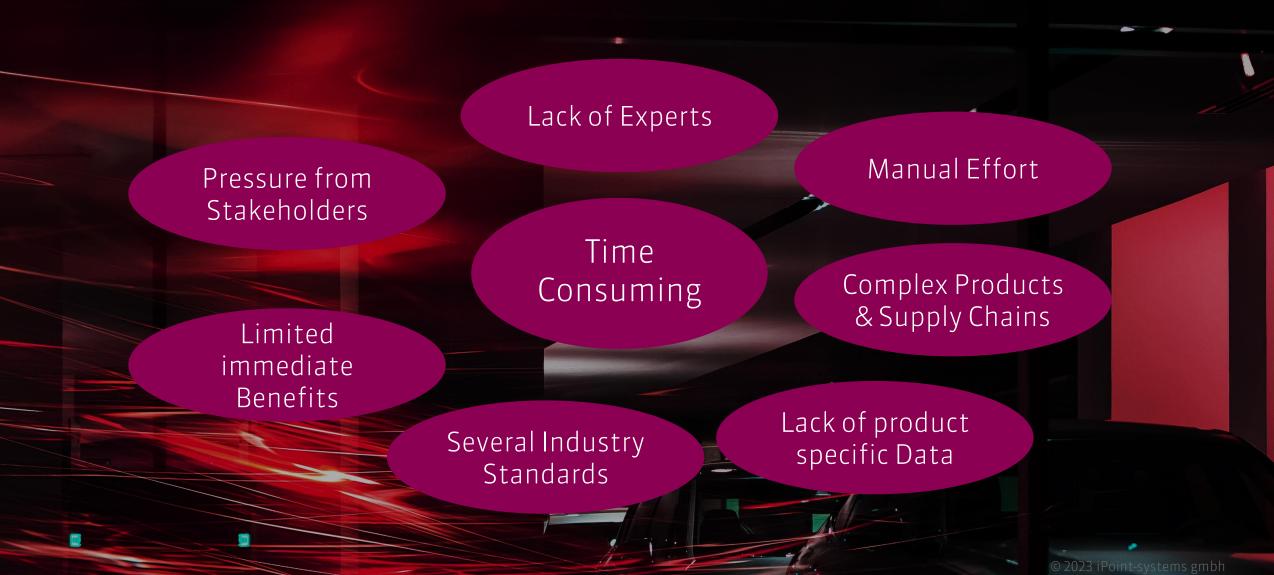
"Over the last few years, we have made major progress in

reducing our own greenhouse gas emissions. We have been carbon neutral in our operations since 2020

Climate Change Impact - the #1 KPI

Challenges to address Product Carbon Footprints at Scale





Initiatives and Activities – Aiming to Scale PCF ,PCF Rulebooks', Exchange Formats, Digital Infrastructure





Vision & Goals

Benefits

Carbon footprint rules

A uniform methodology that specifies existing standards and procedures is needed to record and compare carbon data. Catena-X describes this in a carbon-specific set of rules, the "Catena-X Product Carbon Footprint Rulebook."













Workflow iPoint Product Sustainability Combining Compliance & Sustainability

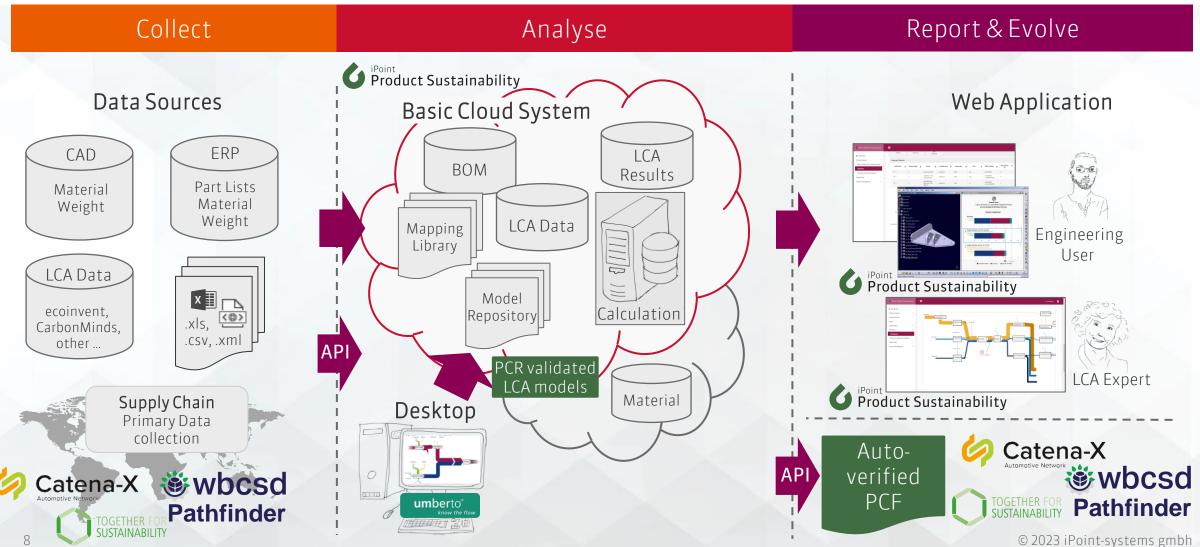




Workflow automated LCAs/PCFs with Supply Chain







Automation of Life Cycle Assessments / PCFs

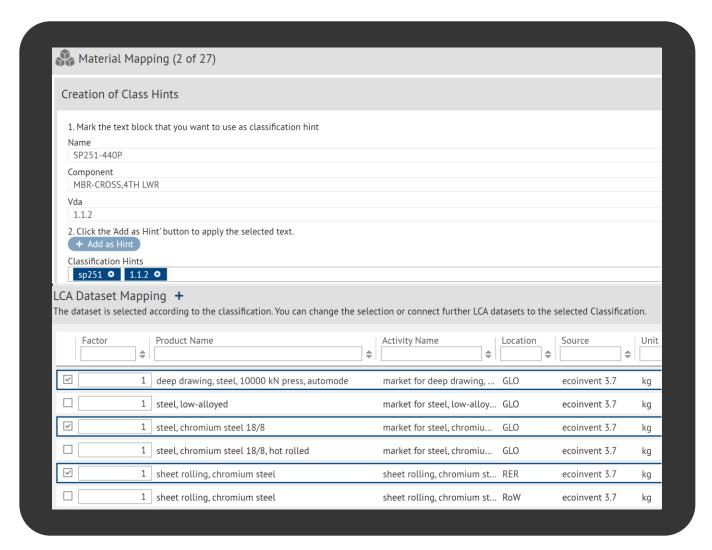
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Mapping materials to LCA datasets

- Smart Mapping
- Machine learning system
- Import of BOM information

9

- Selection/confirmation of LCA datasets
- 80% of materials can typically be mapped automatically

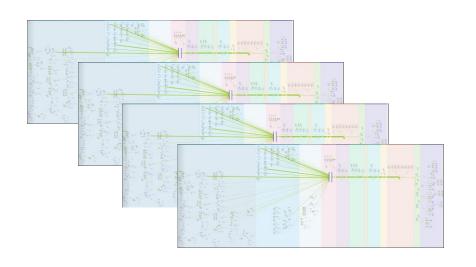


Automation of Life Cycle Assessments

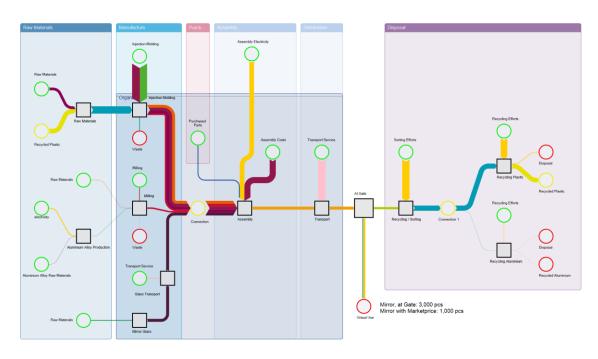
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Based on Generic Modelling

Product specific models
1 model → 1 product

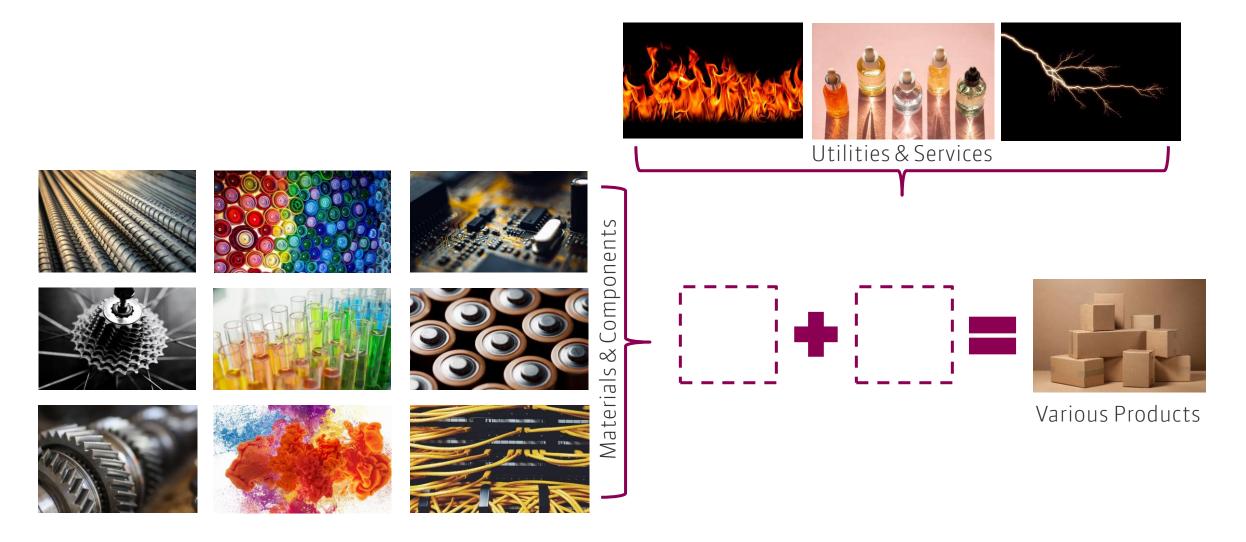






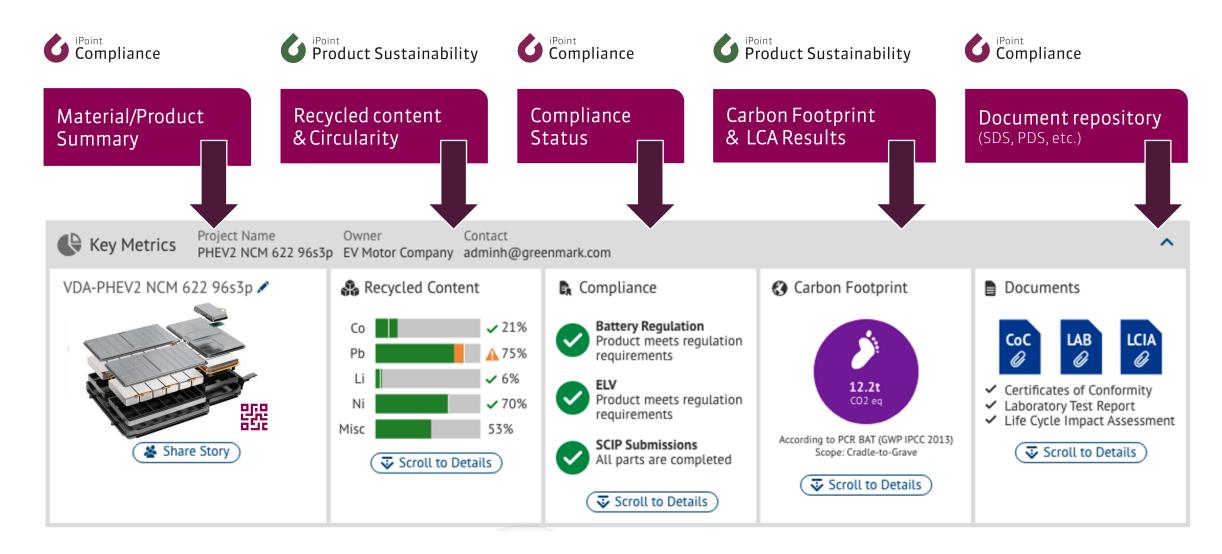
Automation of Life Cycle Assessments Addressing Product Categories with Generic Models





Outlook: Digital Product Passport Initially only required for Batteries





Vielen Dank! Thank you for your attention!





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iPoint Worldwide: The iPoint Group



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