


Digital Material Passport

simply integrate auditable quality and sustainability data

Stefan Gröll, 21. PQM - Dialog, 05.05.2023

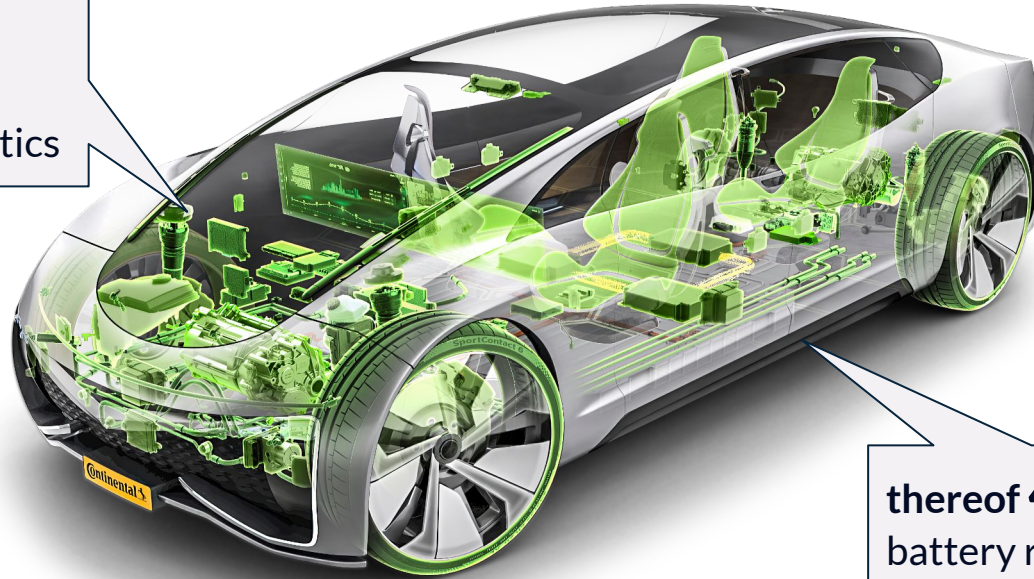
A group of business professionals are seated around a long white conference table in a modern meeting room. They are looking towards a large screen at the front of the room. The screen displays a 3D cutaway diagram of a car, showing its internal mechanical parts. The room has large windows on the left, and the overall atmosphere is professional and collaborative.

ONLY 6%

CHALLENGE

More than 80% of CO2 impact of “parts” is related to the upstream material supplies but only 6% of this is known

thereof **60%**
steel,
aluminium,
engineering plastics

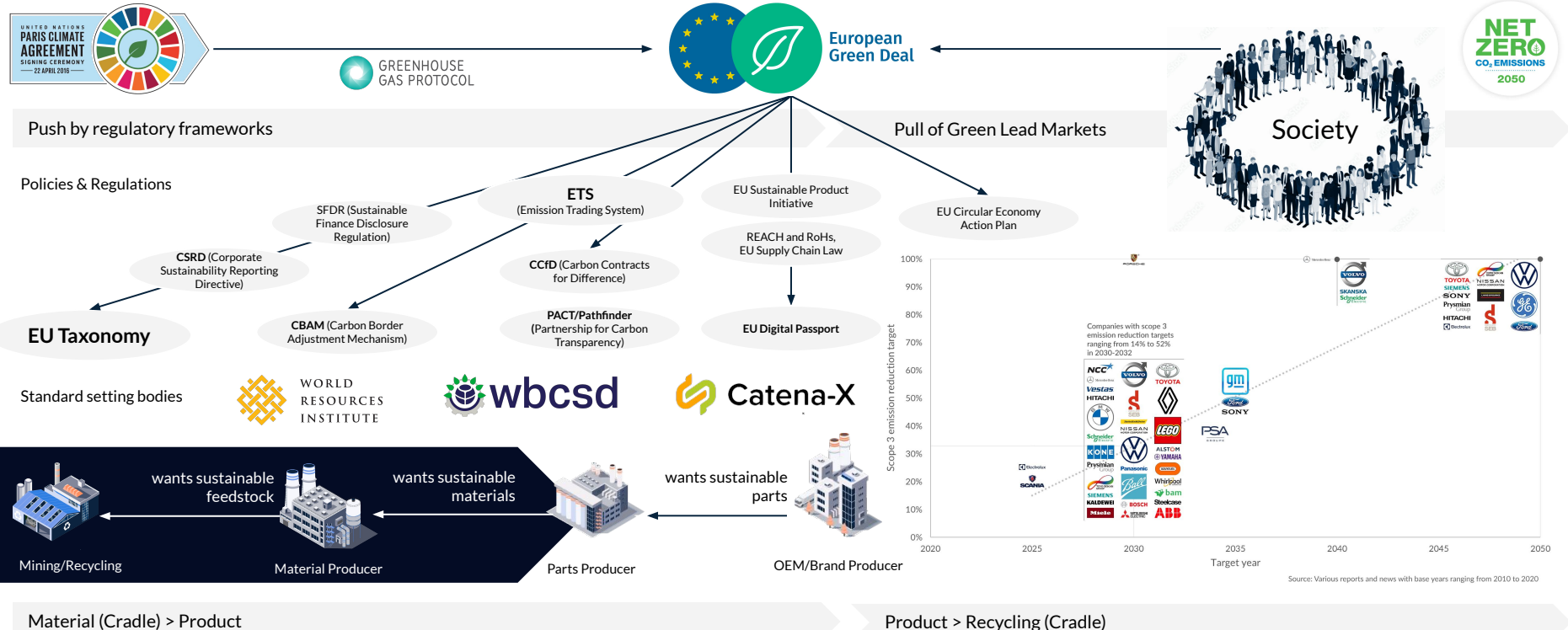


Requirement:
primary,
supplier specific
auditable,
machine readable
data

thereof **40%**
battery related

Image: Continental AG

Carbon transparency will become the license to operate with the need for digital tools to manage new audit requirements



Material (Cradle) > Product

Product > Recycling (Cradle)

**“Today we exchange PDF or Excel files.
If now we want to bring forward and share
reduced product carbon footprints or
increased recycled contents
we need other ways”**

Dr. Andreas Wollny, BASF Project Lead Catena-X

Up until now material information for steel, metals and plastics is siloed in paper-based or PDF quality certificates

100.000.000
documents
every year
in EU27

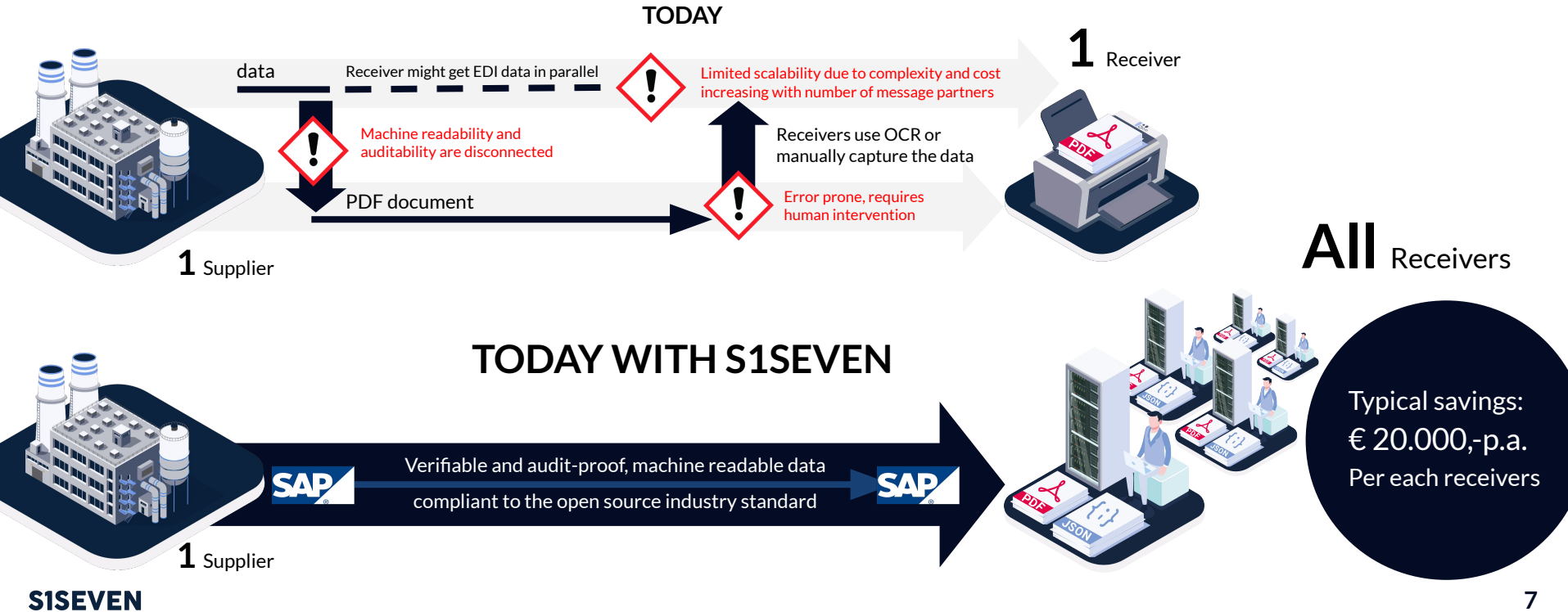
Globally 10x

inefficient and time consuming, prone to errors and falsification

500.000
receivers
every year
in EU27

Globally 10x

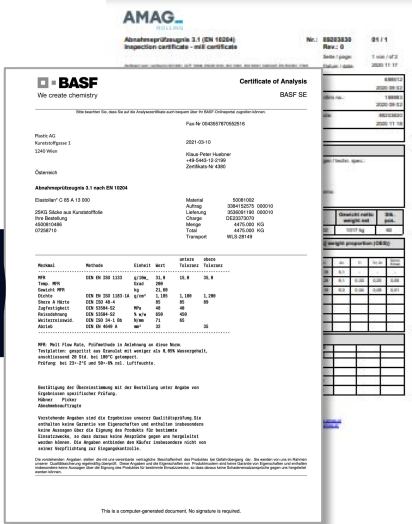
S1SEVEN is reinventing information-sharing middleware by embedding immutability to machine readable data



“We need Open Standards as we are developing here. This allows that everybody can share the information in the same way for the customers to be able to process the data right away”

Dr. Andreas Wollny, BASF Project Lead Catena-X

Quality Certificates, heritage from before the internet



siload
information
in a variety
of formats



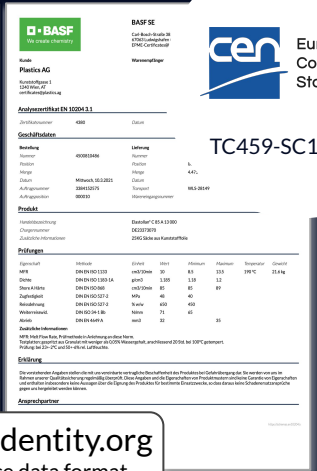
audit-proof,
machine
readable
data

Material Passport, quality and sustainability data exchange

```

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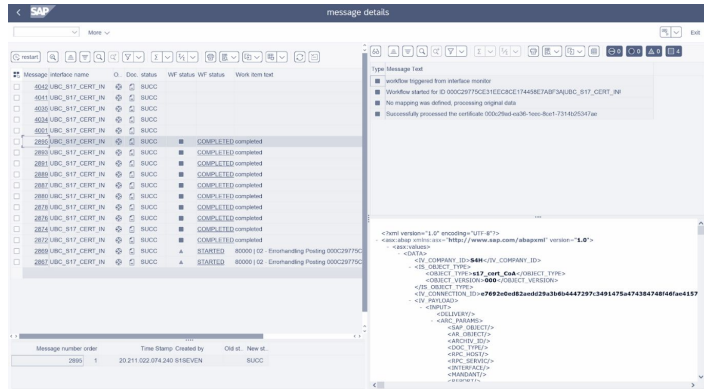
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TC459-SC12-WG4

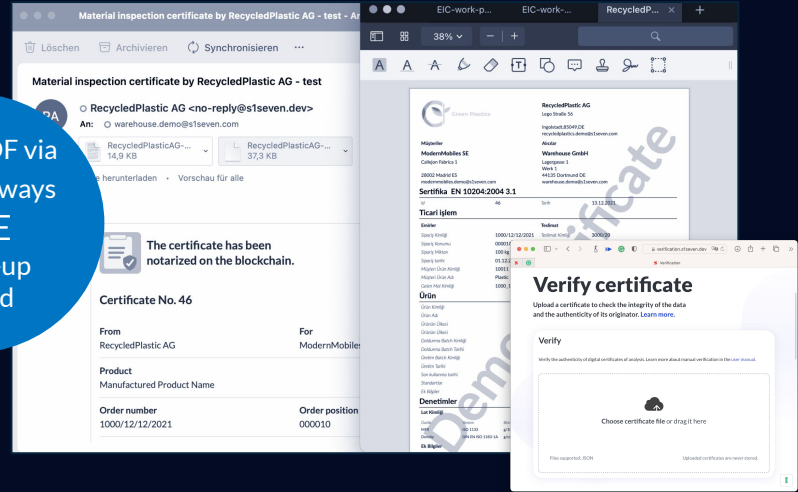
materialidentity.org
open source data format

Suppliers use existing software to issue Digital Material Passports



Instant rollout as the PDF and email maintains supported

JSON+PDF via email is always FREE no sign-up needed



BENEFITS

“Digital Material Passports help us reduce cost and improve quality in processing certificates.

The biggest potential, however, lies in optimizing machine parameterization that will improve the quality of our products.”

Ibrahim Othman, Julius Blum GmbH

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