

WEBINAR

**CIRCULARITY
SHOWCASE:
THE PRODUCT
CIRCULARITY DATA
SHEET (PCDS)**

**8 DECEMBER 2020
14:55 - 15:55 CET**

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PCDS
PRODUCT CIRCULARITY
DATA SHEET
LUXEMBOURG

Agenda

1. Introduction by Franz Fayot, Minister of the Economy and Minister for Development Cooperation and Humanitarian Affairs of Luxembourg



Franz Fayot

Minister of the Economy @ Ministry of the Economy

2. Presentation of the PCDS

What is the PCDS, key benefits and major achievements – Jérôme Petry, Deputy Director Sustainable Technologies, The Ministry of the Economy of Luxembourg

3. Testimonial on the practical usage of the PCDS - Panel hosted by Jérôme Petry

ArcelorMittal – Mauro Chiapini, ArcelorMittal

Astron Buildings – René Oly, Lindab

GS1 Nederland – Jan Merckx

Tarkett - Alain Casoli



Jerome Petry

Deputy Director Sustainable Technologies @ Ministry of the Economy



Thibaut Wautelet

Project Manager @ +Impakt

4. Q&A Session

Discussion hosted by – Thibaut Wautelet, +Impakt



Jan Merckx

Sustainability Specialist @ GS1 Nederland



Alain Casoli

Tarkett



René Oly

Innovation and Methods Manager @ Astron Buildings



Mauro Chiappini

Research Engineer Environmental Sustainability @ ArcelorMittal

1. Introduction

**Video message by
Mr. Franz Fayot, Minister of the Economy
and Minister for Development
Cooperation and Humanitarian Affairs
of Luxembourg**



2. Presentation of the PCDS

1. What is the Product Circularity Data Sheet?
2. Key benefits of the PCDS
3. PCDS System
4. Major achievements of the PCDS
5. Platforms involved



2.1. What is the Product Circularity Data Sheet

Group of +50 companies

Ministry of the Economy of Luxembourg

+Impakt

focusing on the establishment of an industry standard for communicating data on the circularity of products:

1. Save costs to manufacturers & suppliers by providing a standardized approach to offer product information
2. Align with a common language on circularity features
3. Support the design of circular & healthier products
4. Support the implementation of cost-effective circular business models

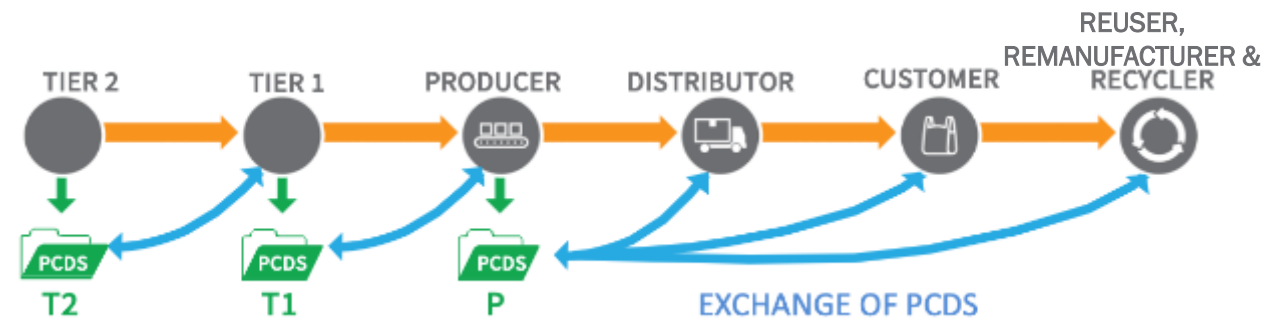
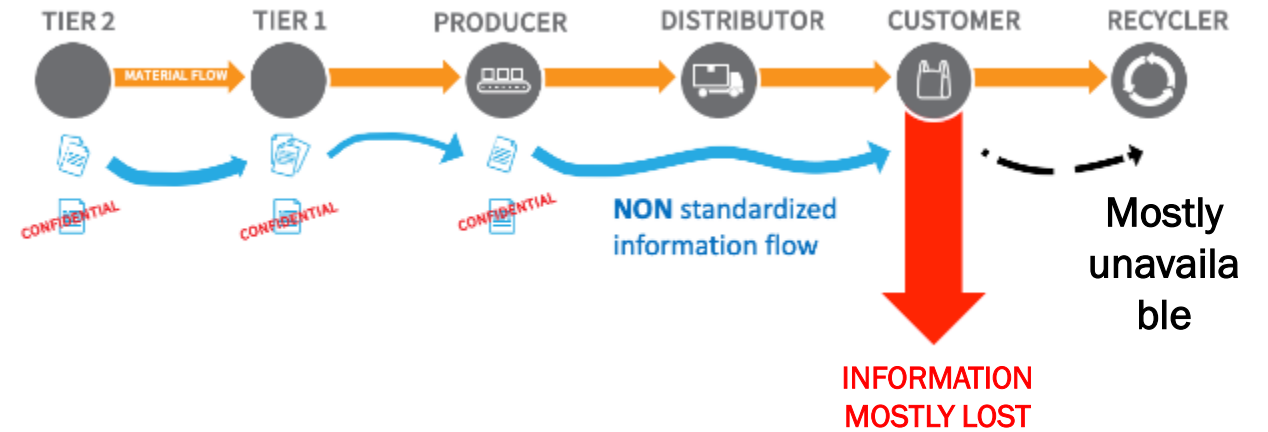


2.2. Key benefits of the PCDS

Problem statement:
Collecting circularity data is expensive, difficult and non-standardized






The solution:
Standardized way to share circularity data at each step of the value chain

- 1) a data template which contains **standardized and trustworthy information** on the **circularity of a product**
- 2) a **third-party verification process** to validate the content of the **PCDS**
- 3) a **standardized data exchange protocol** based on a decentralized data storage approach



2.3. PCDS System

Data Template – Guidance Document – Audit System – IT System

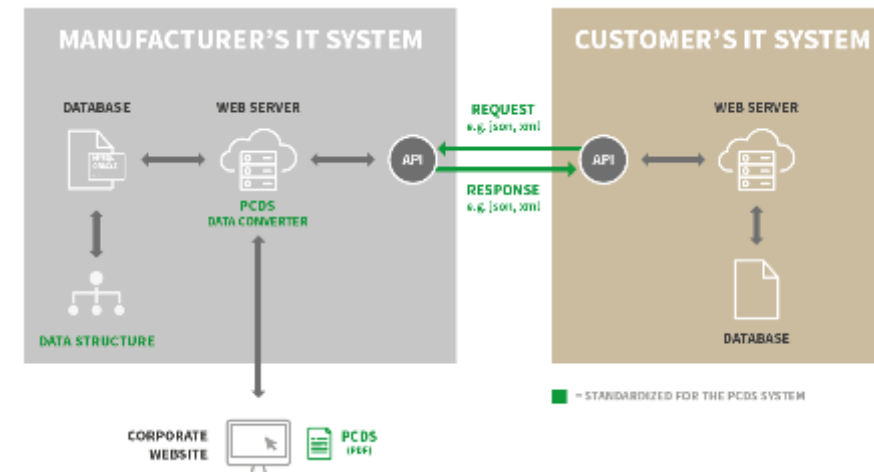
SECTIONS	STATEMENTS (EXAMPLES)
 GENERAL INFORMATION	
 COMPOSITION	<p>THE PRODUCT CONTAINS > 75-95 % POST-CONSUMER RECYCLED CONTENT BY WEIGHT</p> <p>THE PRODUCT DOES NOT CONTAIN SUBSTANCES OF VERY HIGH CONCERN FROM THE REACH CANDIDATE LIST IN CONCENTRATION ABOVE 0.1% BY WEIGHT</p>
 DESIGNED FOR BETTER USE	<p>THE PRODUCT CAN BE MAINTAINED & REPAIRED BY UNTRAINED PERSONNEL AT THE LOCATION OF THE PRODUCT USE</p>
 DESIGNED FOR DISSASSEMBLY	<p>THE PRODUCT IS DESIGNED TO BE INSTALLED AND DEMOUNTED USING REVERSIBLE CONNECTORS</p>
 DESIGNED FOR RE-USE	<p>THE PRODUCT IS DESIGNED FOR RE-USE AS-IS OR WITH MINIMAL MODIFICATION</p> <p>THE PRODUCT IS DESIGNED FOR COMPOSTING IN A HOME COMPOSTER</p>

Connection Types	Description
Type I	Direct chemical connection. Two materials are permanently fixed by chemical interaction (e.g. glue or soldering).
Type II	Indirect connection with irreversible chemical connection, which is stronger than the connected elements/ materials/products.
Type III	Direct connection with reversible chemical connection. Two elements are connected with other chemical substances, which can be removed or dismantled (e.g. by reformulation is possible).
Type IV	Direct smart connection. Two elements are connected by upload insertion of accessories into the element (element is weaker after disassembly).
Type V	Direct connection with mechanical fixing devices. Two elements are connected with mechanical connections, which can be removed without damaging the elements (reuse and repairability/adaptability is possible).
Type VI	Indirect connection via dependent third components. Two elements are separated with third connection points, but they have dependencies in assembly (reuse is partly possible).
Type VII	Interlock connection. Two elements are connected with a lock being damaged by fixing devices (direct reuse and repairability/adaptability possible).
Type VIII	Interlocking connection. Two elements are connected by third element using physical connections. Disassembly of one element does not affect the other (direct reuse and repairability/adaptability possible).
Type IX	Gravity. Two elements are connected only by gravity force.

Table 4: Connection Types. Template developed by PCDS based on Toronto University's TAMM Product

4.9. **disassembling**
 ability of a product to be taken apart at the end of its useful life in such a way that the constituent sub-elements or components can be re-used or recycled. (ISO 6707-3:2017, Definition 3.7.31)
 This is distinct from demounting where the product is being removed from another context like a structure or vehicle.

ASSURANCE MECHANISMS



2.4. Major achievements of the PCDS

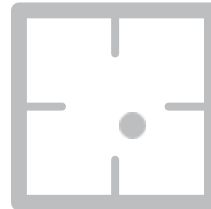
COMMON LANGUAGE



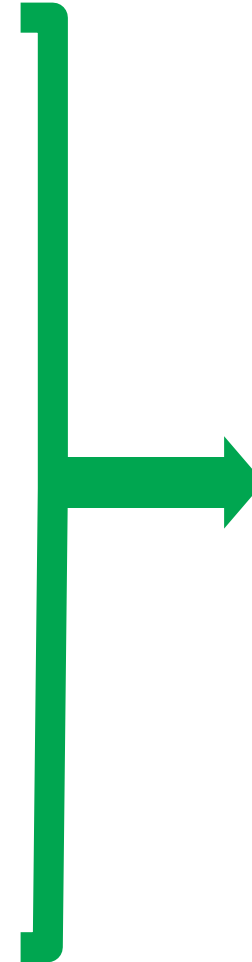
STANDARDIZED



DECENTRALIZED



**STRONG SUPPORT
from stakeholders and
international platforms**



AFFORDABLE

AUDITABLE

LOW EFFORT

SCALABLE

TRUSTWORTHY



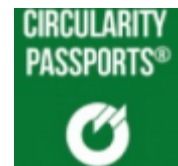
2.5. Platforms involved



World Business Council for
Sustainable Development



Product Data Template
cobuilder



CIRCULAR
IQ



3. Panel discussion

Testimonial on the practical usage of the PCDS



Jan Merckx
Sustainability Specialist @ GS1 Nederland



Alain Casoli
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René Oly
Innovation and Methods Manager @ Astron
Buildings



Mauro Chiappini
Research Engineer Environmental
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4. Q&A Session

Feel free to ask your questions in the second column on your right



Thibaut Wautelet
Project Manager @ +Impakt

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THE GOVERNMENT
OF THE GRAND DUCHY OF LUXEMBOURG
Ministry of the Economy

