



PCDS
PRODUCT CIRCULARITY
DATA SHEET

Creating A Universal Digital Circularity

Fingerprint For Products

August - 2021



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

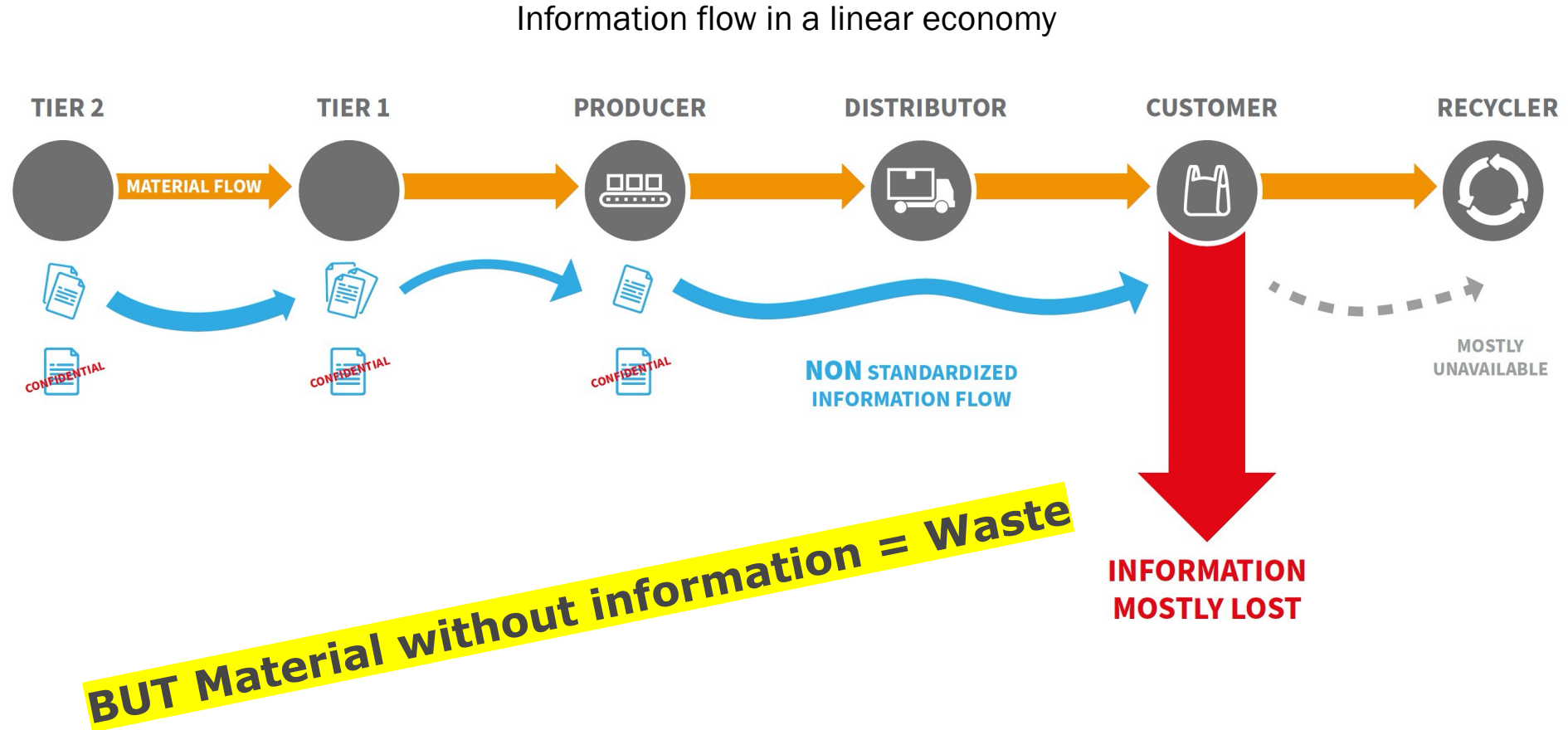


*For the circular economy to work,
not only resources are required to circulate...*

...but also data on circularity of products along the value chain.

Problem statement

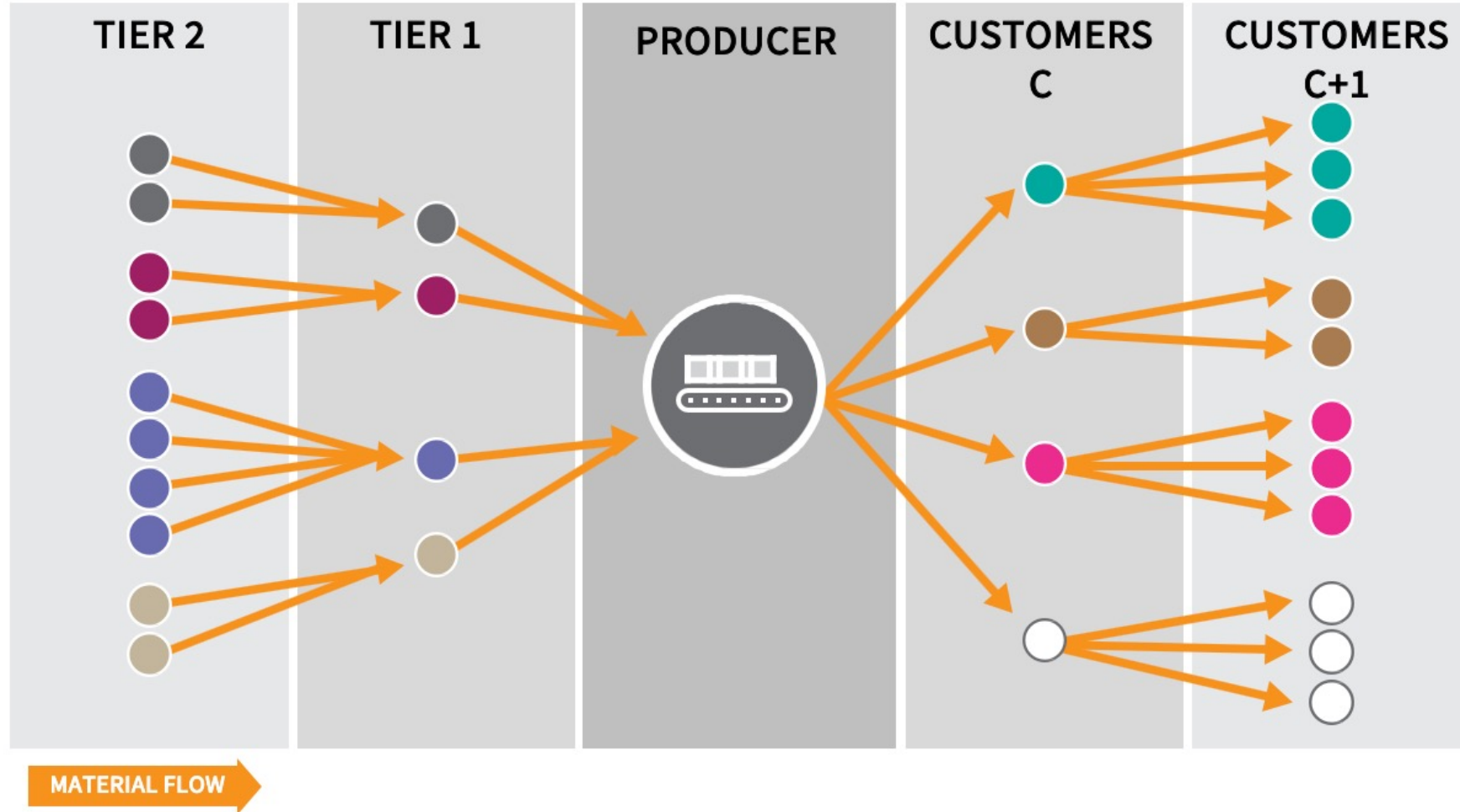
Collecting circularity data is expensive, difficult and non-standardized



Problem statement

Communicating circularity data requires a cross-sectorial approach

The complexity from a producer's point of view, anywhere in the supply chain:



Circularity Dataset Standardization Initiative

Objectives

Establish A) unofficial then B) official industry standard for communicating data on the circularity of products, in order to:

1. Save significant costs to manufacturers and their suppliers by providing a standardized approach to offer product information to their customers
2. Co-establish and align with a common language on how to describe the circularity features
3. Support the design of circular and healthier products
4. Support the implementation of cost-effective circular business models

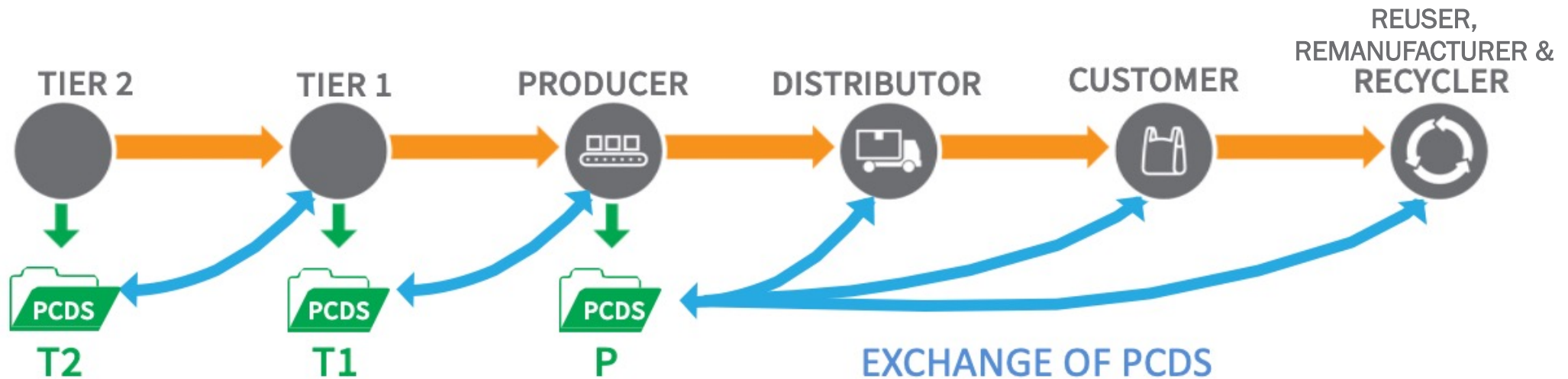
Period: 06/2018 – now and moving forward

Stakeholders and governance

- Sponsor: Luxembourg Ministry of the Economy
- Project Management: +ImpaKT Luxembourg
- Working Groups: 50+ companies & organizations from 12 European countries & US
- Website: <http://pcds.lu/>

The solution

Standardized way to share circularity reliable data at each step of the value chain



The solution

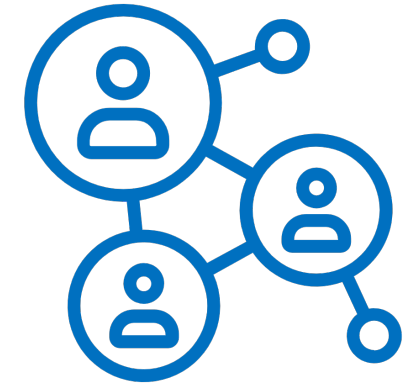
The Product Circularity Data Sheet (PCDS) System



A data template with standardized product information on the circularity properties without infringing *Intellectual Property*








A third-party verification process to validate the content of the PCDS



A standardized IT exchange protocol & format to share efficiently trusted data without relying on a centralized database

What does the PCDS contain ?

SECTION			STATEMENTS (Example)
1		GENERAL INFORMATION	<ul style="list-style-type: none">• Global Trade Item Number (GTIN)• Global Location Number (GLN)
2		COMPOSITION	<ul style="list-style-type: none">• The product contains >75-95 % post-consumer recycled content by weight.• The product does not contain Substances of Very High Concern from the REACH Candidate list in concentration above 0.1% by weight.
3		DESIGNED FOR BETTER USE	<ul style="list-style-type: none">• The product can be maintained & repaired by untrained personnel at the location of the product use.
4		DESIGNED FOR DISSASSEMBLY	<ul style="list-style-type: none">• The product is designed to be installed and demounted using reversible connectors.
5		DESIGNED FOR REUSE	<ul style="list-style-type: none">• The product is designed for re-use as-is or with minimal modification.• The product is designed for composting in a home composter.

Why use the PCDS ?

The PCDS allows to:

1. Create a **common language** about product circularity
2. Make **product information more transparent** without infringing IP
3. **Facilitate the collection of trustworthy data** from your suppliers
4. Support your design team to **improve product circularity**
5. Reduce redundant labor with a **standardized format published once for all** your customers
6. Save time with an **automated process** allowing the assembly of information from your suppliers' PCDS

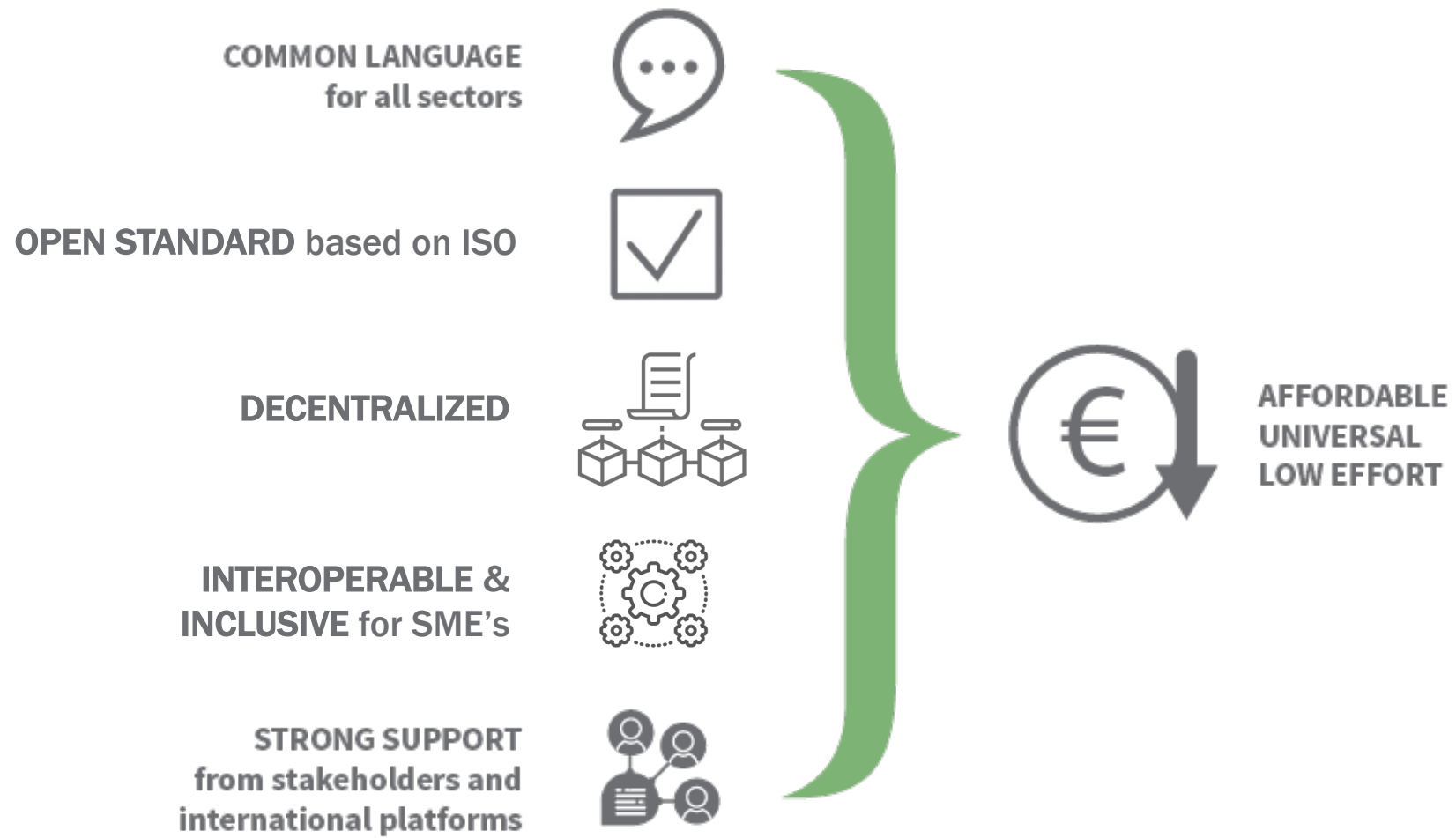
Who contributed to the development of the PCDS ?

50+ companies & organizations from 12 European countries & USA

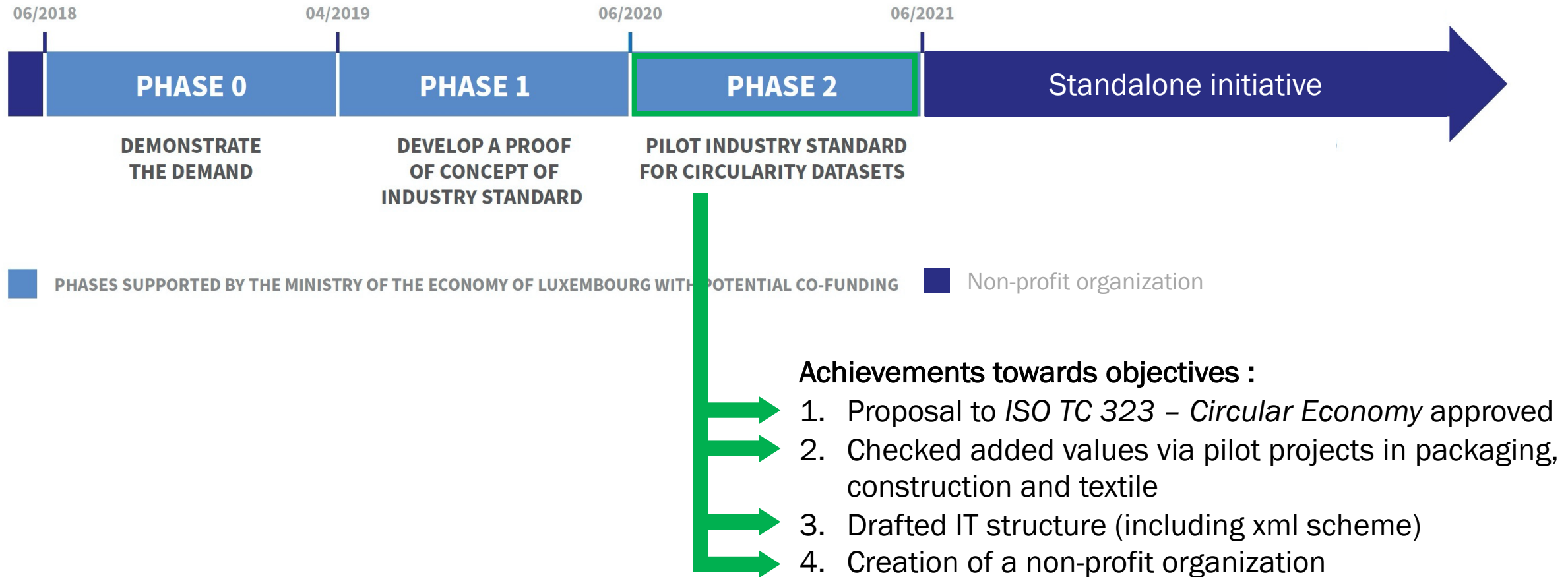
Non-exhaustive list of the initiative stakeholders



What makes the PCDS system effective ?

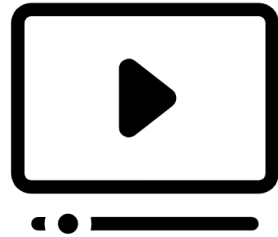


Where we stand today



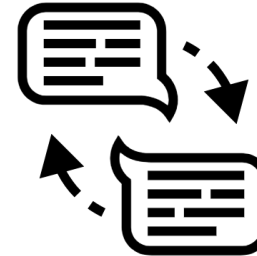
So, is your organization **ready to get started** and **use the PCDS** ?

I need to know more



Visit our website (pcds.lu) and **read the PCDS story** (click [here](#)).

I'm (almost) ready



Get in contact (pcds@eco.etat.lu) with us to discuss potential next steps and **how to scale up the PCDS** within your organization.