

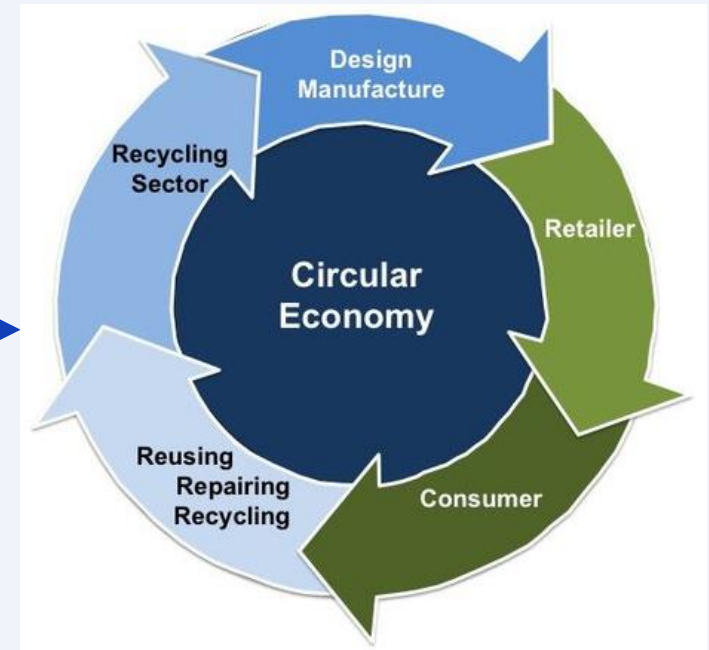
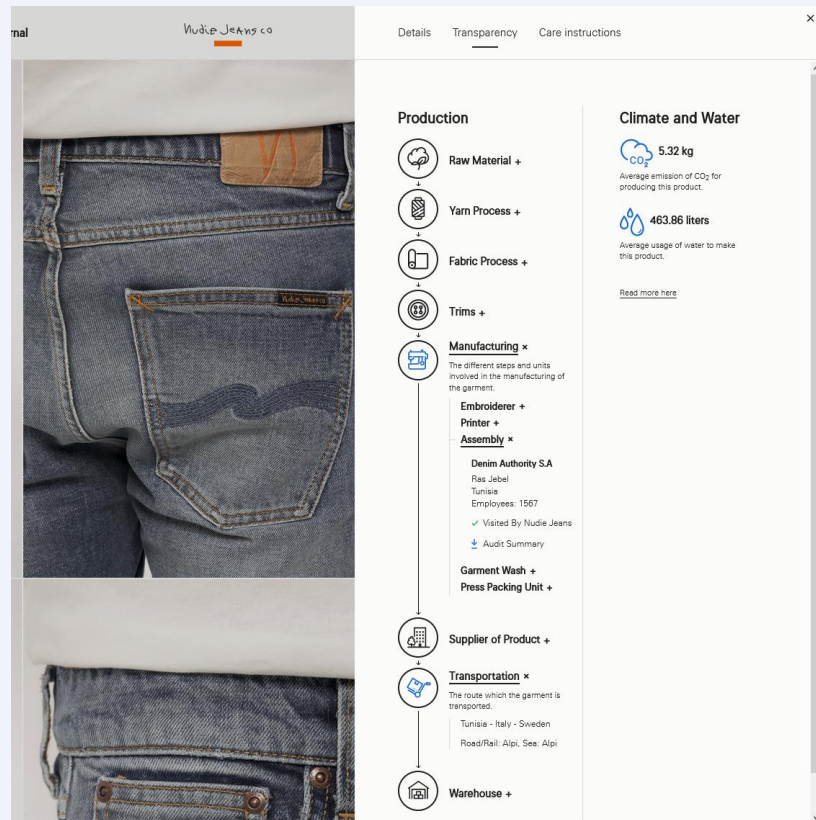
An overview of DPPs

May 22nd

Sjoerd Rongen

1 slide overview

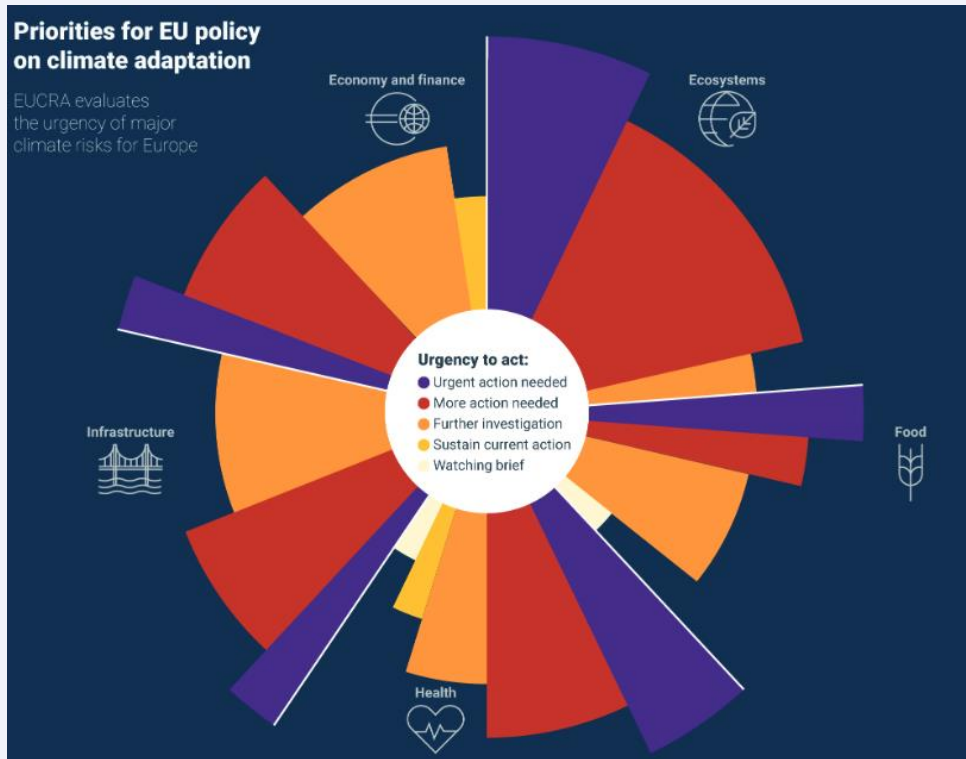
The Digital Product Passport (DPP) is an information system that makes accessible on a need-to-know basis data relevant to product sustainability along their value chains ([EC ecodesign regulation proposal](#))



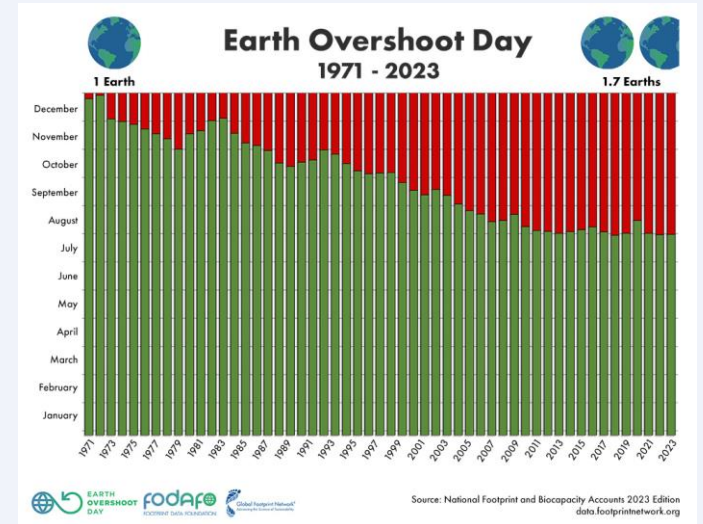
Where we have to go, transparent value chains to support a circular economy in which materials are reused

[Where we are at, individual companies presenting audit reports in a nice UI](#)

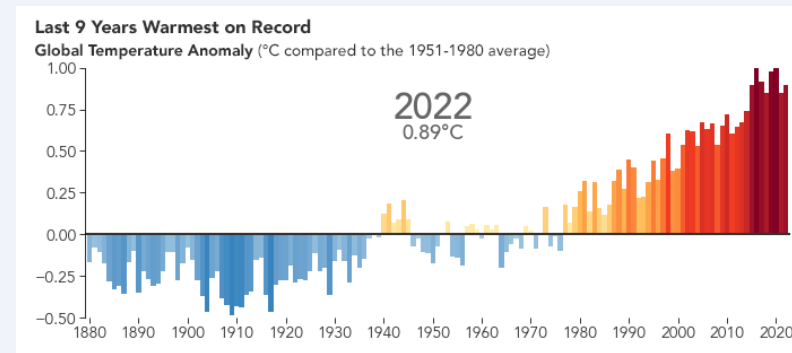
“Europe is not prepared for rapidly growing climate risks”*



*According to: European Environment Agency



We're using too much resources



The planet is heating up

We rely on outside entities

Bauxite	Coking Coal	Lithium	Phosphorus
Antimony	Feldspar	Light rare earth elements	Scandium
Arsenic	Fluorspar	Magnesium	Silicon metal
Baryte	Gallium	Manganese	Strontium
Beryllium	Germanium	Natural Graphite	Tantalum
Bismuth	Hafnium	Niobium	Titanium metal
Boron/Borate	Helium	Platinum group metals	Tungsten
Cobalt	Heavy rare earth elements	Phosphate Rock	Vanadium
		Copper	Nickel

“The risks associated with the concentration of production are in many cases compounded by low substitution and low recycling rates.”



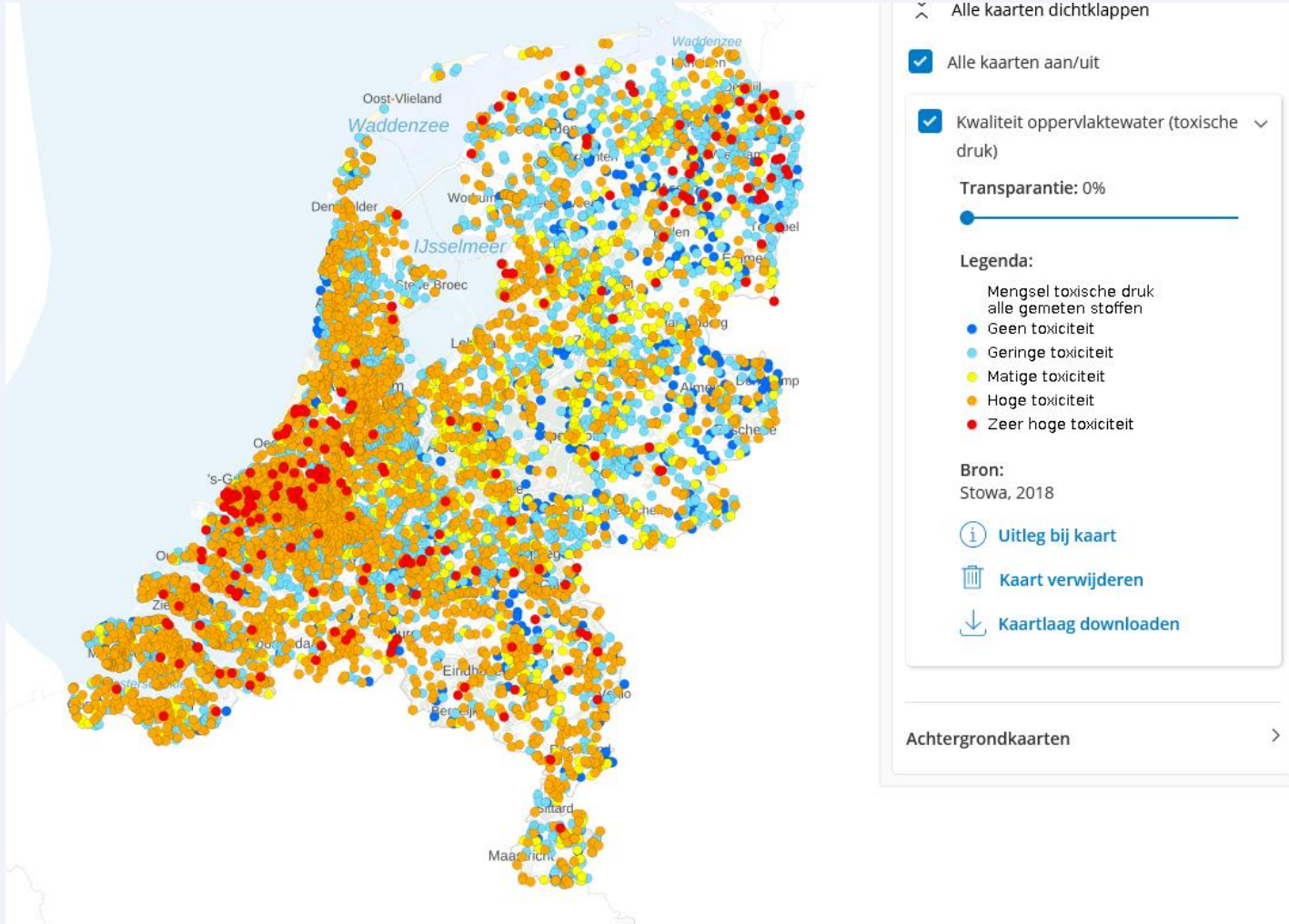
We rely on outside entities

Bauxite	Coking Coal	Lithium	Phosphorus
Antimony	Feldspar	Light rare earth elements	Scandium
Arsenic	Fluorspar	Magnesium	Silicon metal
Baryte	Gallium	Manganese	Strontium
Beryllium	Germanium	Natural Graphite	Tantalum
Bismuth	Hafnium	Niobium	Titanium metal
Boron/Borate	Helium	Platinum group metals	Tungsten
Cobalt	Heavy rare earth elements	Phosphate Rock	Vanadium
		Copper	Nickel

“The risks associated with the concentration of production are in many cases compounded by low substitution and low recycling rates.”



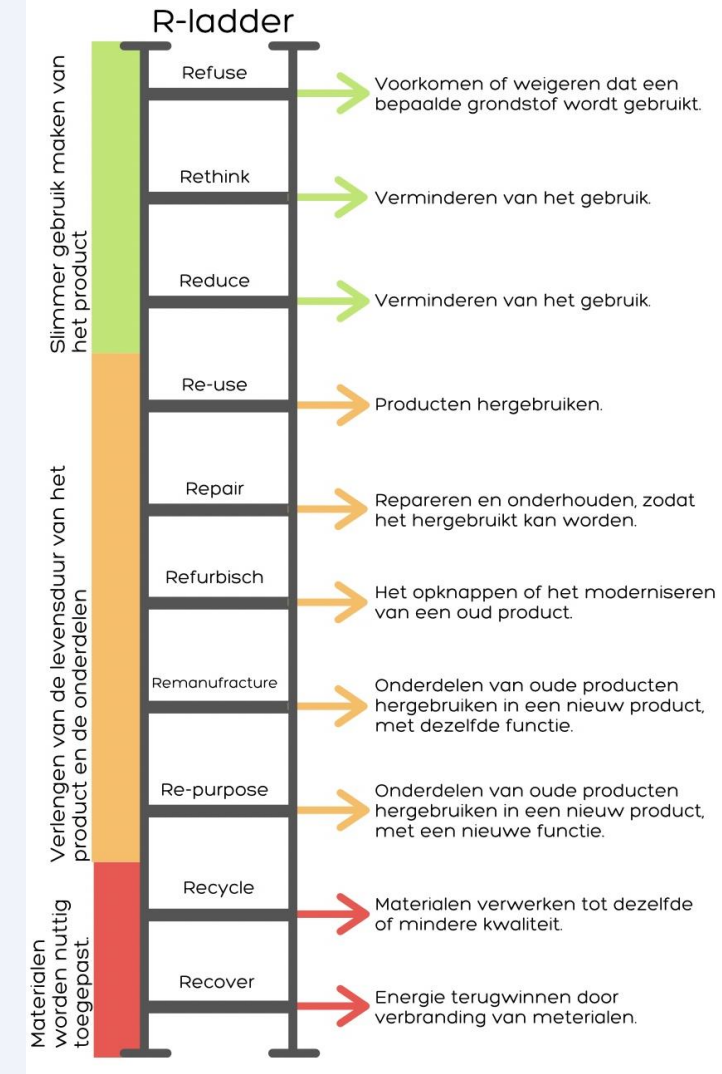
Who's making a mess?



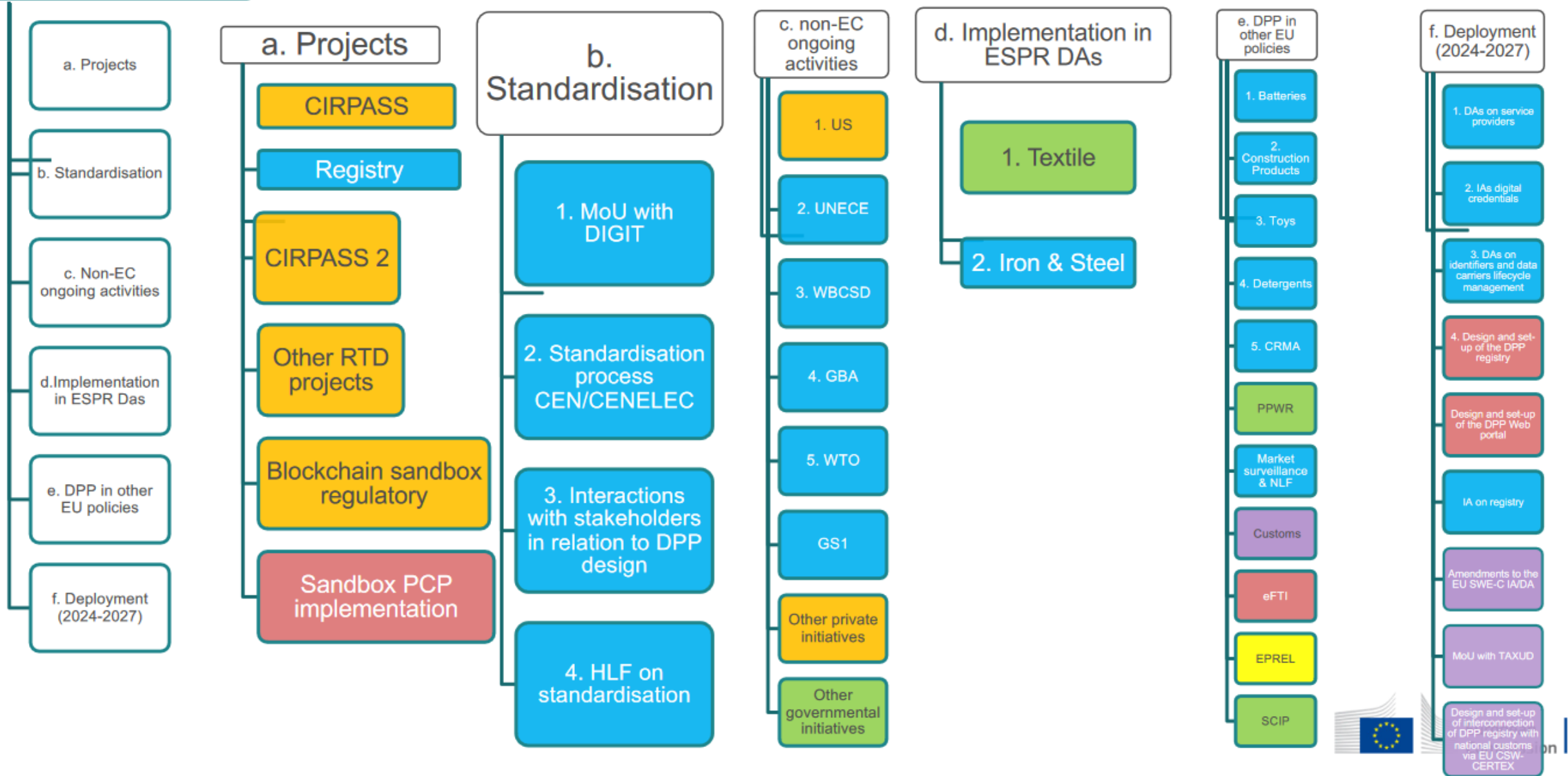
Water quality in the Netherlands is insufficient

One passport, many birds

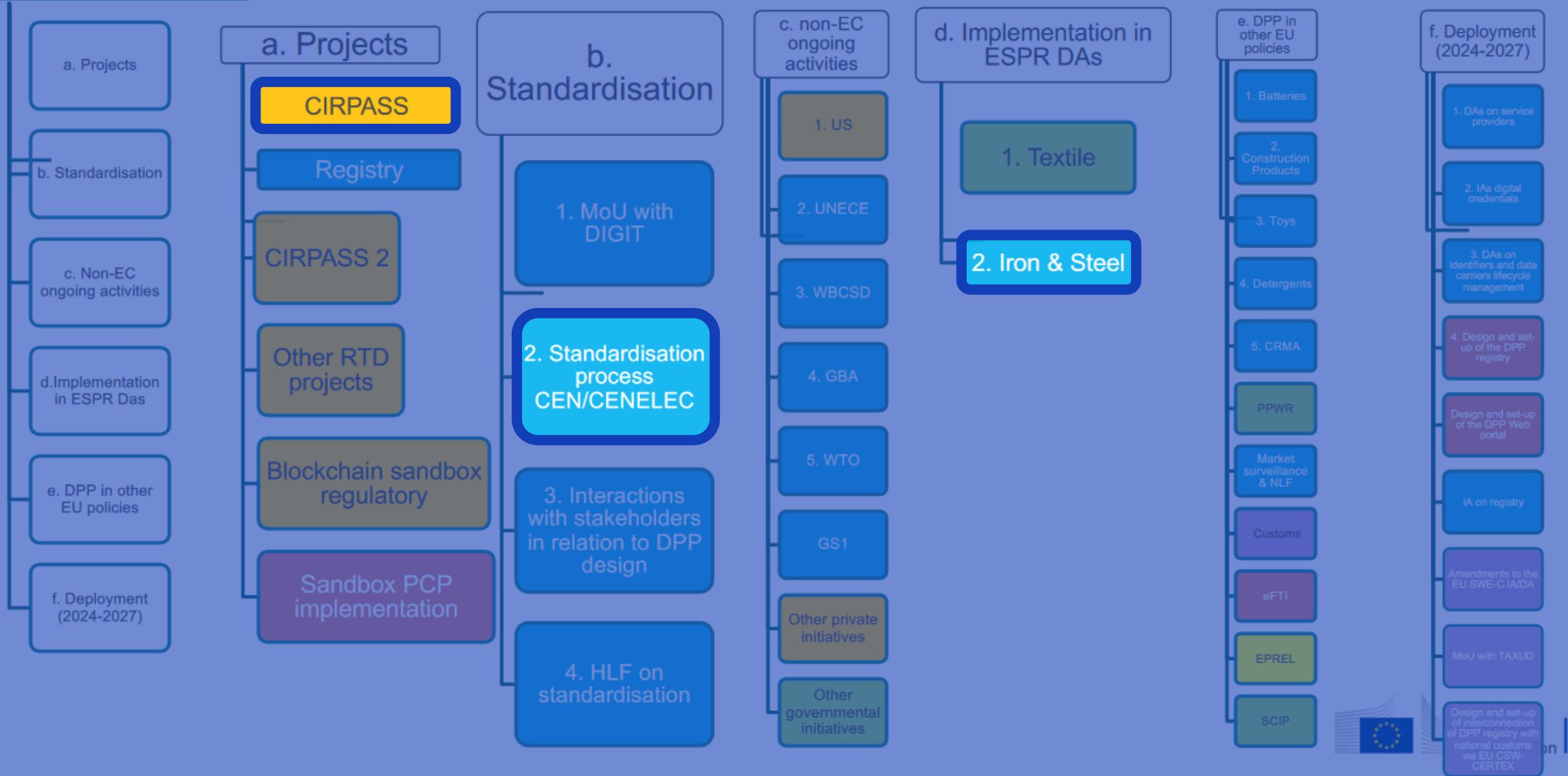
- We track where products come from
- How they are made
- Where they went
- Enabling reusing of material within our economy
 - Improving our sovereignty
- Informing (pollution) root cause analysis
 - Enabling more targeted policy and enforcement
- Reducing our carbon footprint



DPP - TEAM

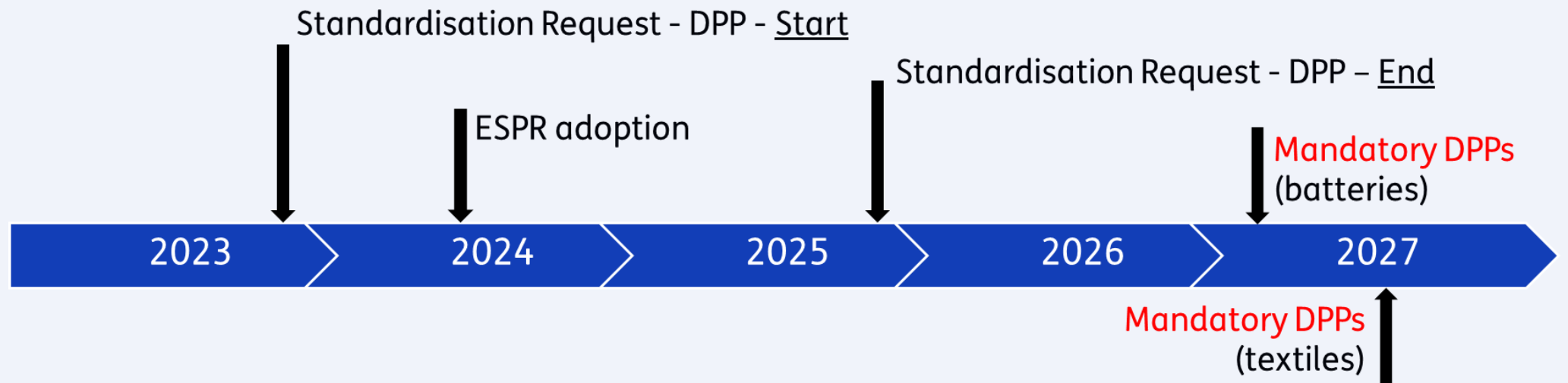


DPP - TEAM

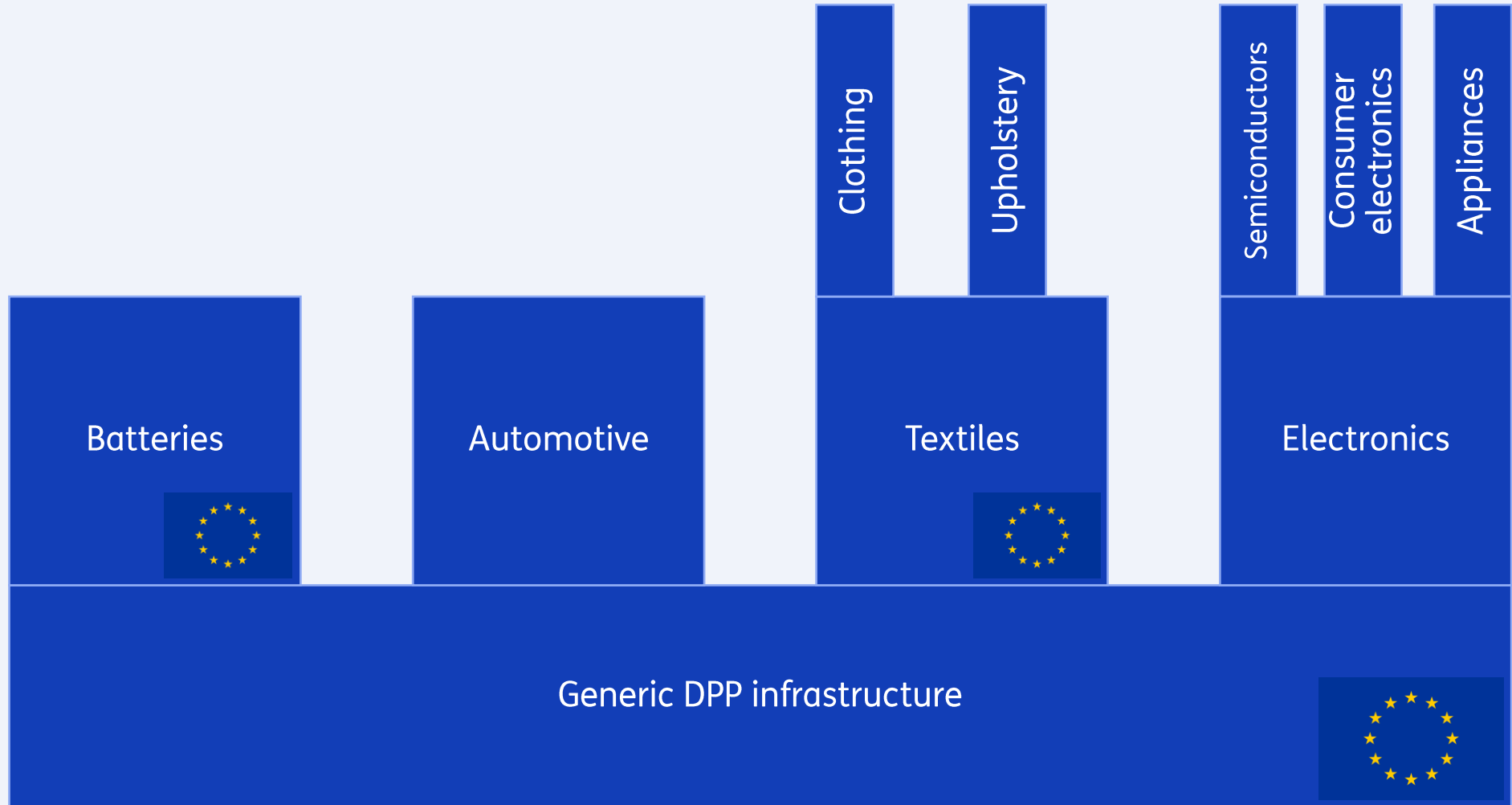


The parts we know

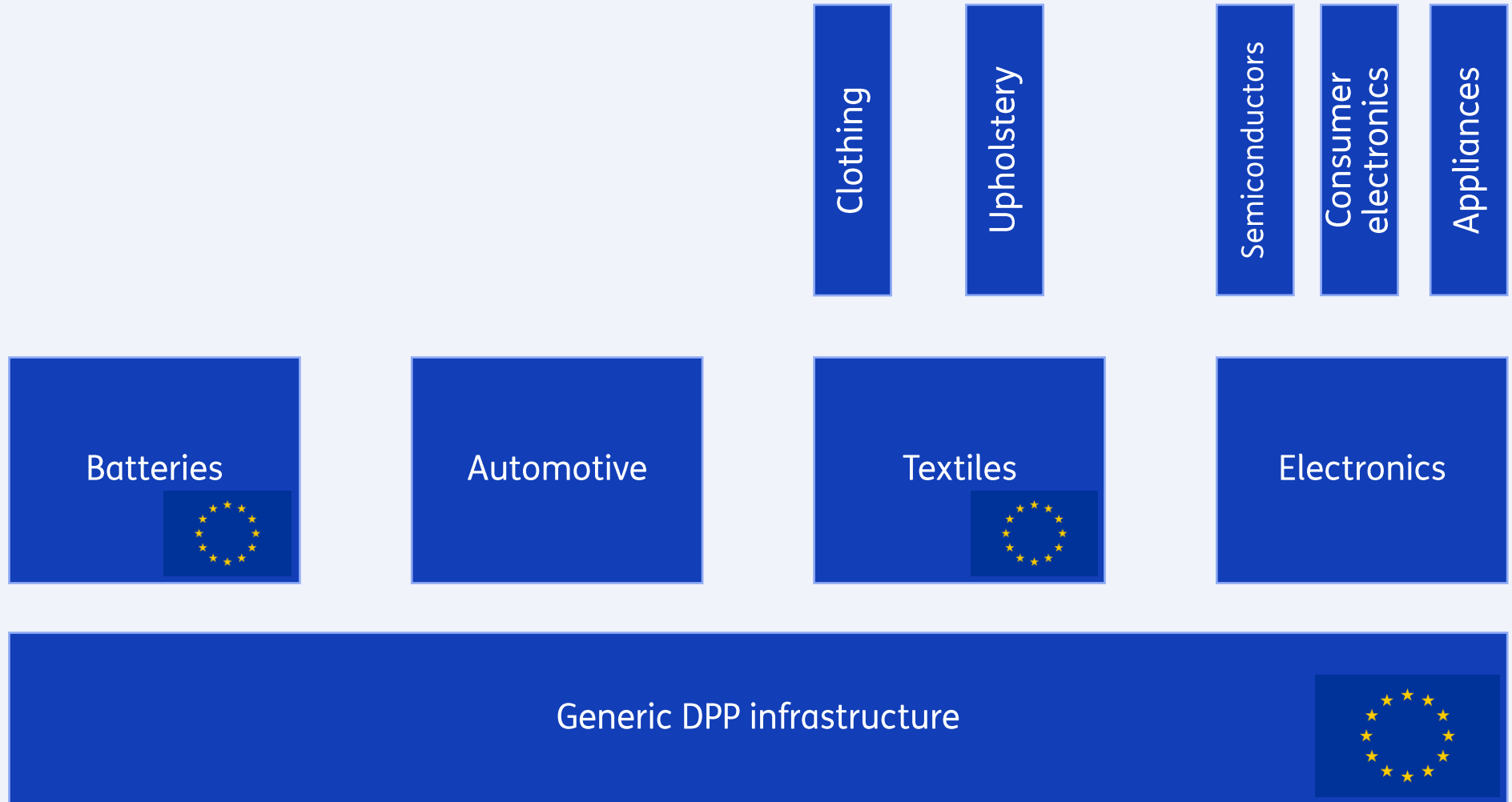
- The (European) time lines and policy
 - Policy is sparse on implementation details
- EU vision on data sharing
 - Decentralized, FAIR
- EU memberstates will have to implement



The parts we know



The parts we know

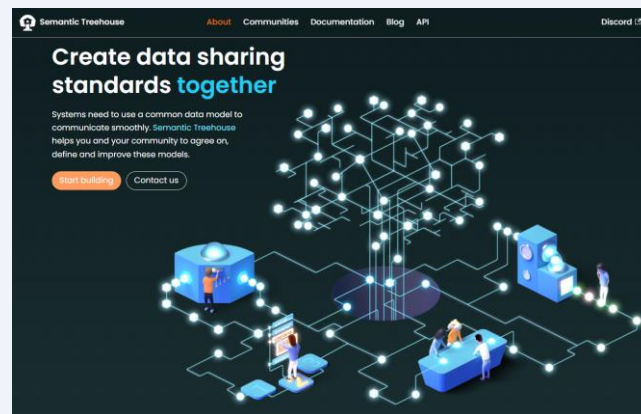
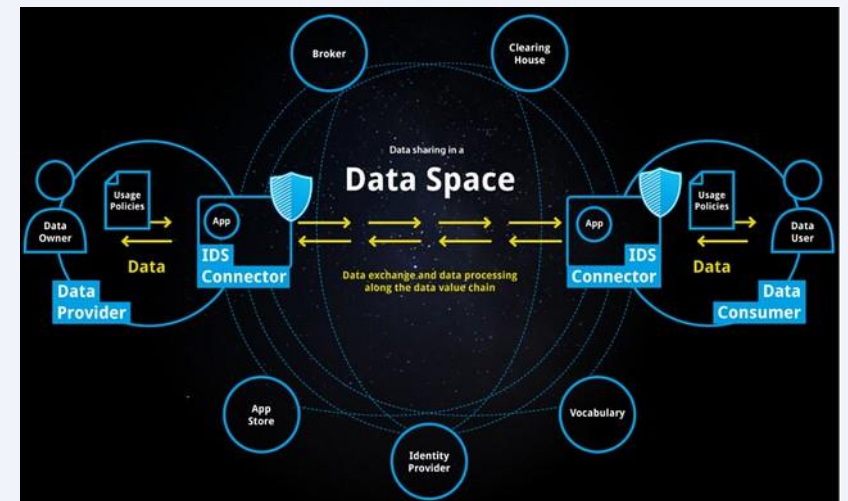


22-05-2024

Centre of Excellence - Data Sharing and Cloud

What we have

- Ecosystems
- (inter)national projects
- Pre-existing technologies



A Product Passport consists of data and a system. The challenge is to make the *right* data available and make agreements about the system

CHALLENGE



Challenge

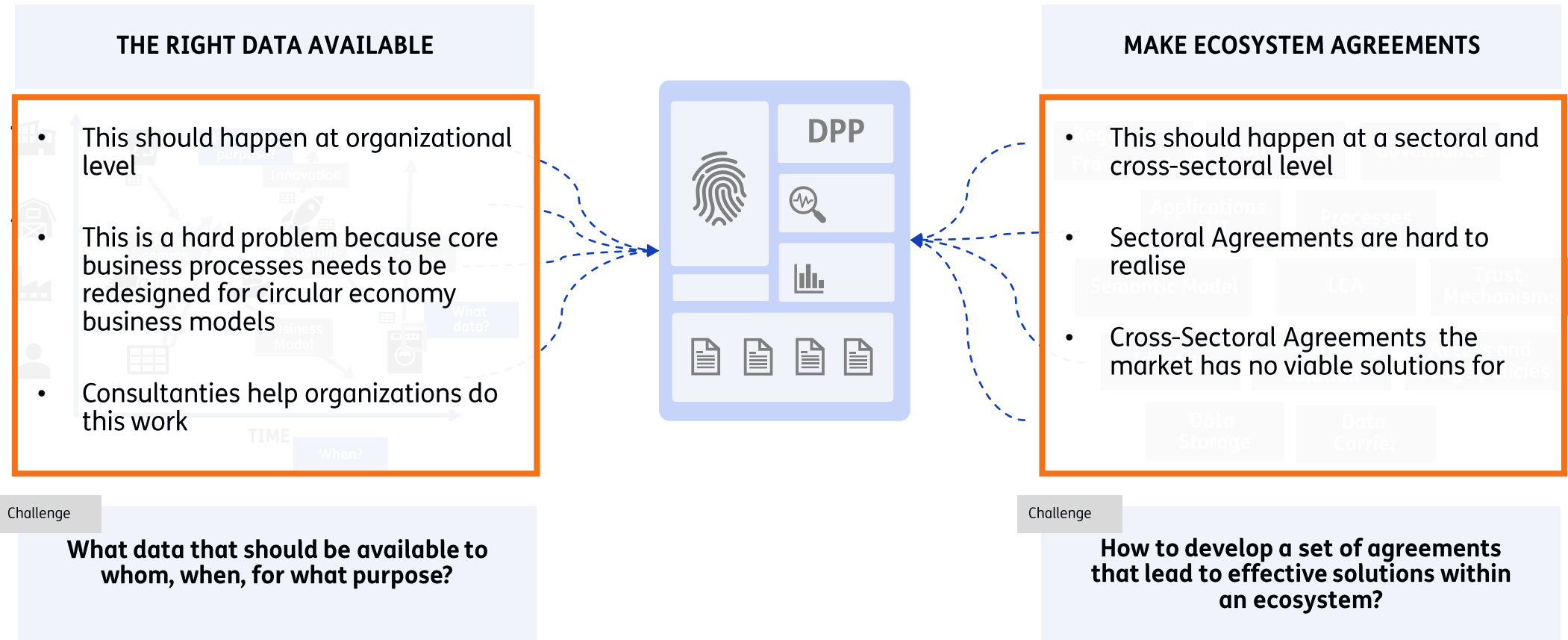
What data that should be available to whom, when, for what purpose?

Challenge

How to develop a set of agreements that lead to effective solutions within an ecosystem?

A Product Passport consists of data and a system. The challenge is to make the *right* data available and make agreements about the system

CHALLENGE





CENTRE OF EXCELLENCE DATA SHARING & CLOUD

Thank you

sjoerd.rongen@tno.nl



INTERNATIONAL DATA
SPACES ASSOCIATION

