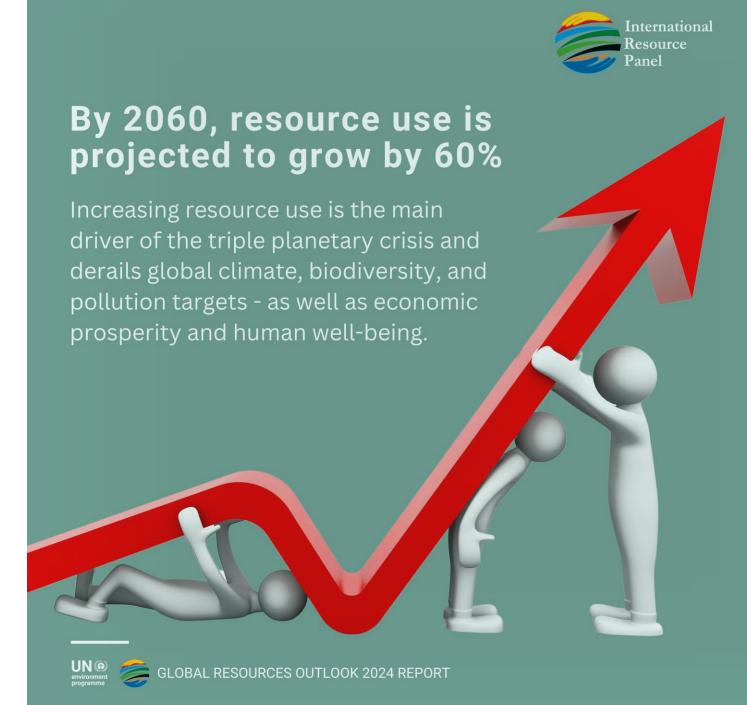
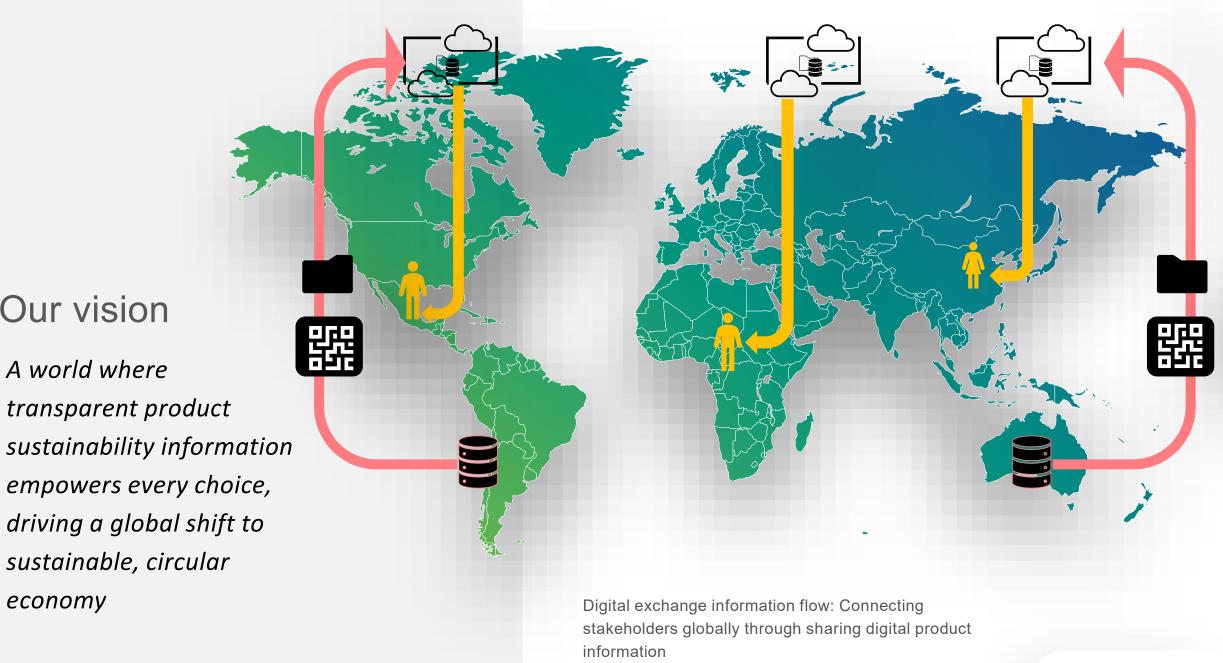


# Mainstreaming sustainability and circular economy in an age of rising resource use

- A sustainable & circular economy requires great transparency and traceability of products, to make better decisions, from the extraction of raw materials to the end-of-life of products.
- Over **90% of consumers** globally express an interest in **healthy and sustainable** products (GlobeScan 2023).
- Digitalization will become key to systematizing, integrating and democratizing environmental data, knowledge and insight for new collaboration opportunities and impact.







Our vision

A world where

economy

## To achieve that vision, DPIS systems must be **interoperable** and put sustainability and circularity at its core

## Ensure sustainability and circularity is at the heart of DPIS

- Provides support in developing DPIS for circularity and sustainability
  - > Pilots DPIS in high impact sectors

# SUSTAINABLE DEVELOPMENT GOALS



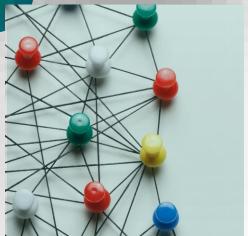
## Link DPIS to global sustainability agenda

- DPIS supports consumer protection and sustainable consumption
- > DPIS enables MEA implementation

## Promote sustainable global markets through DPIS

- Brings in voices from medium and low-income countries
  - Enable market access to businesses (in particular SMEs)





## **Create a unified landscape of globally interoperable DPIS**

- Support interoperability of various DPIS
- Contribute to global standards on DPIS













## 1. Impact Initiative Digitalization 4 Circular Economy



































#### **MISSION**

Accelerate the implementation of **digital product information systems**, enabling sustainability and circular economy transitions in a resource-constrained world.

#### Goals of the initiative

- Learn: Increase understanding of DPIS globally and learn from pears
- **Contribute:** Create and bring in knowledge on relevant topics and collaborate on joint outputs
- Showcase: Show ongoing efforts on DPIS, including sector-specific applications and research

#### How to join

D4CE 2026 is open to join Contact: <u>Laetitia.Montero@un.org</u>



## Over the last years, Digitalization 4 Circular Economy contributed to key publications to accelerate adoption of DPIS

ntervention lab:

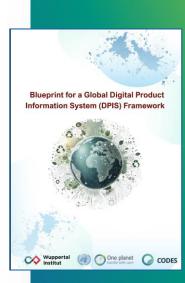
Global digital standards

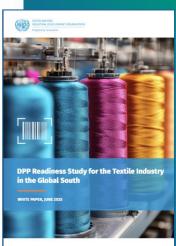
### Blueprint for a Global DPIS Framework

Prepared by the Digitalization 4
Circular economy initiative, this
report provides a foundation for a
global framework for Global Digital
Product Information Systems
(DPIS) that will guide the design of
interoperable digital solutions that
embrace circular principles and are
inclusive by design.

## **DPP Assessment Textile in Global South**

UNIDO, with UNEP support, conducted a readiness assessment in key textile exporting countries of the Global South. Findings identify critical gaps that need to be addressed to scale Digital product passports (DPPs) in textile industry in global south.



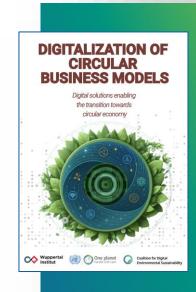


## Digitalization of Circular Business Models

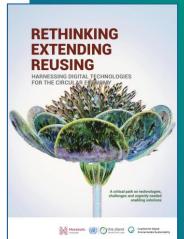
Supported by the Wuppertal Institute, this report explores how digital technologies—IoT, AI, and Digital Product Passports—drive circular business models. These solutions advance the circular economy while reducing costs, creating value, and reshaping value chains.

## Harnessing digital technologies for circular economy

This report shows what digital pathways and technologies are available to unleash the potential of the circular economy. It identifies opportunities, as well as challenges and barriers.



Intervention lab: Business models

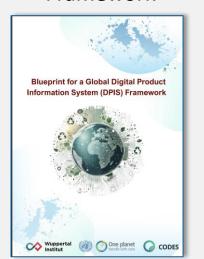


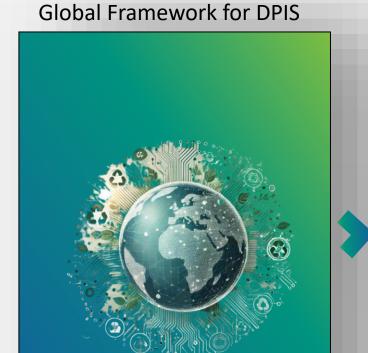


## 2. Building on the blueprint in 2026 UNEP will co-develop a framework for global action on DPIS

2026

**2025**Blueprint for a Global DPIS
Framework





Common framework to harmonize and scale DPIS placing circularity and sustainability at its heart

#### **Key principles**;

- Embed sustainability and circularity; defining data categories
- Defining fundamentals incl. technical architecture, governance, financial mechanisms
- Ensuring equity and inclusion; develop in an inclusive process with feedback from transition economy countries

To be used by: Policy-makers, DPIS implementors



## 2. The global framework for DPIS defines core elements on functional, technical and governance-related aspects needed for interoperability

**2026**Global Framework for DPIS



#### a. Main Functionalities

Describes the main features. Identify and select the functionalities that a specific system can have.

#### b. Main Technical System Components

Characterizes main components of the digital product information system

#### c. Governance and Policy

Governance aspects, e.g. access rights, implementation, operational rules, establishment of safeguards.

#### d. Data Categories

Categories and subcategories of data as a baseline that could be included into a system

#### e. Relevant Global Standards

Identifies and lists existing and emerging standards

#### f. Financial Mechanisms and Incentives

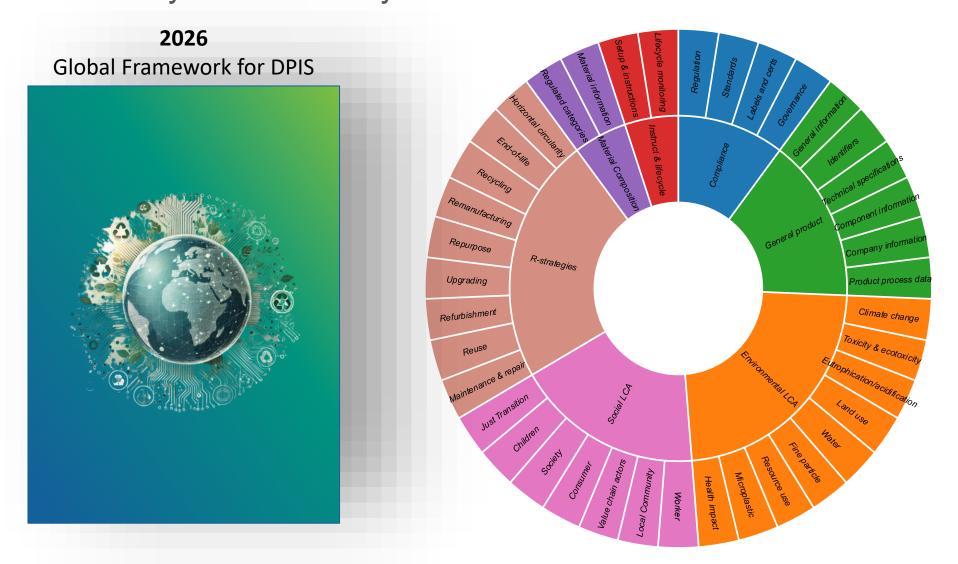
Mechanisms that support education, training and assistance for SMEs, governments and consumers

#### g. Capacity Building and Skill Development

Lines out what stakeholders need to learn and how they can profit from the system. Describes how systems can simplify processes and purposes for authorities and how civil society can be enabled.



2. The seven proposed data categories will provide the foundation for incorporation of sustainability and circularity in DPIS





## Organize regional and expert consultations

#### **Objective of consultations**

Regional and expert consultations enable us to co-develop the framework, enhance awareness, and integrate regional priorities and stakeholder feedback

#### What happened so far

- 10 consultations
- Involved 300 experts
- · Total 86 countries represented

#### What is coming up

- Africa consultation 10-13 February 2026 in Malabo,
   Guinea Equatorial
- Expert consultation critical minerals with UNEA national focal points



July 2025
Latin America consultation
16 countries represented
Included ministries, standard setting
bodies and consumer protection
agencies.



## 3. Sector pilots & Implementation guidelines

Pilot DPIS in high-impact sectors to generate practical evidence for the Global Framework, inform national policy design develop sector-specific DPIS modules that address sector-level data and governance needs.

#### 3 ongoing pilots, guidance:



Pilot program in Argentina: Testing DPIS framework and develop full DPIS solution.

Key partners: BCRC Sth America

Pilot Program in India, Indonesia, Africa: InTex project



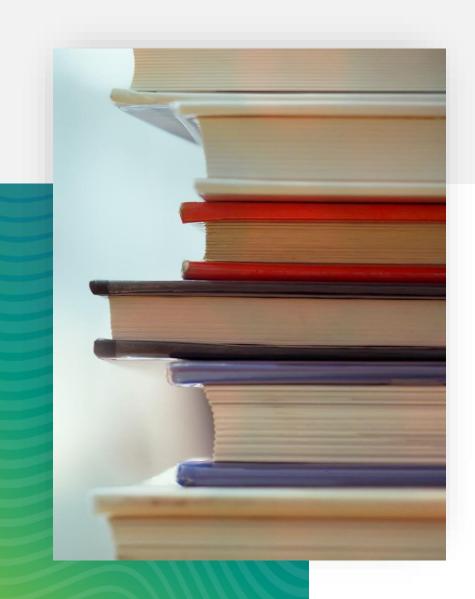
develop guidelines for electronics:
develop guidelines for a modular
and scalable data system design of
Digital Product Information
Systems (DPIS) for ICT products
Key partners: ITU, Huawei
Technologies, UPC, Egypt











#### 5. Skills development

**Objective:** Deliver training programs to develop competencies in DPIS system utilization, communicate their value proposition, and provide implementation guidance

**Target audience:** businesses in particular SMEs





One planet UN One Planet Network Sustainable Business Innovation Lab



## After completing the foundational framework, the focus shifts to implementation, scaling DPIS and empowering consumers



Sector deep-dives:
Piloting DPIS in sector



#### **Building foundations:**

Development of Global Framework for DPIS

Build a globally harmonized DPIS framework reflecting how DPIS contribute to sustainability and CE, with common principles, data categories, interoperability rules and governance guidance.

Test DPIS in high impact sectors across multiple regions to assess feasibility, equity, technology readiness, and capacity needs—especially in transition economies.



DPIS Scaling: Market
Adoption & Consumer
Protection

Scale DPIS deployment across sectors and countries; ensure trusted consumer access, fair data governance, and alignment with MEAs and international trade systems.

2024-2026

2026-2027

2028-2030





