DPP Use Cases and INNDIH AI Connect Services for implementation

From regulatory requirements to operational deployment

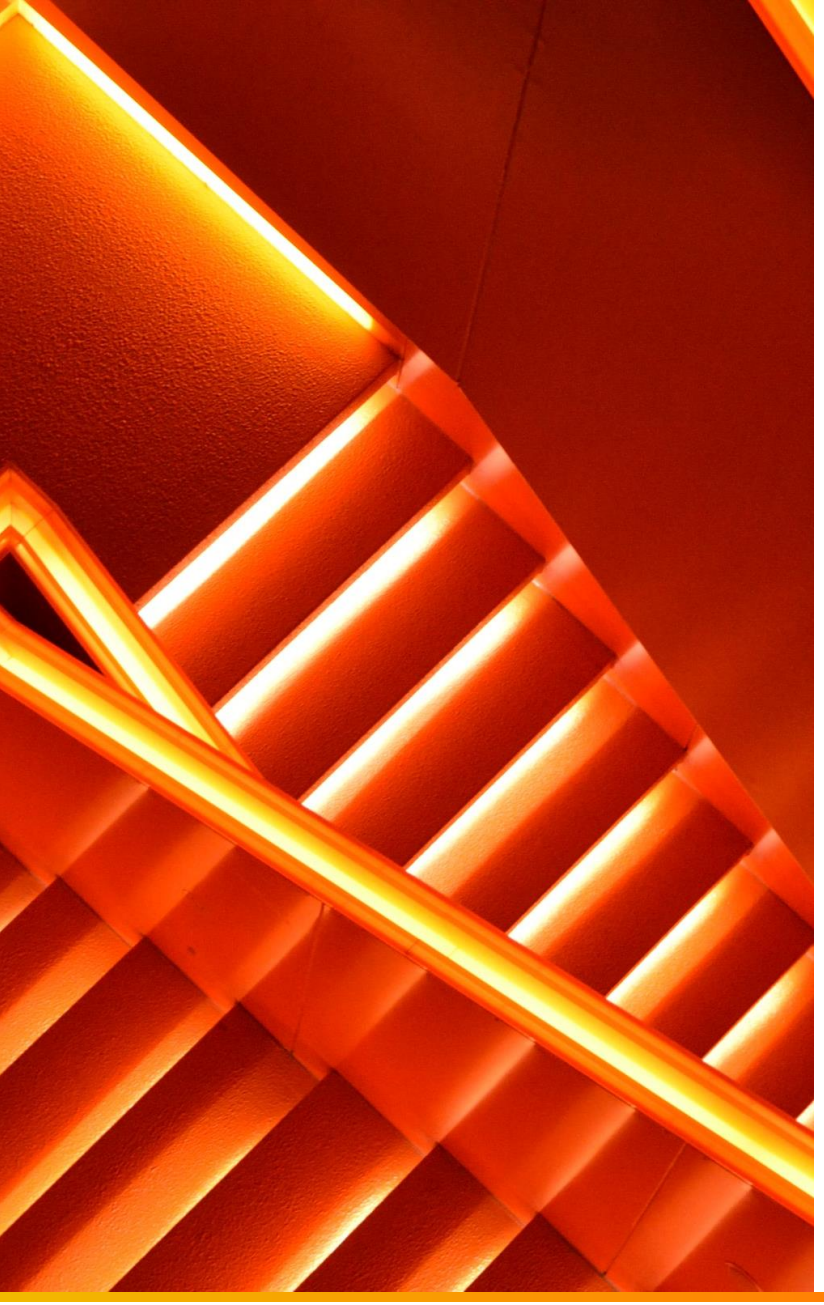
Digital Product Passport in the Textile Sector
Status, Use Cases and Opportunities

Javier Fernández-Bravo (ITI)
Mauro Peralta (AITEX)

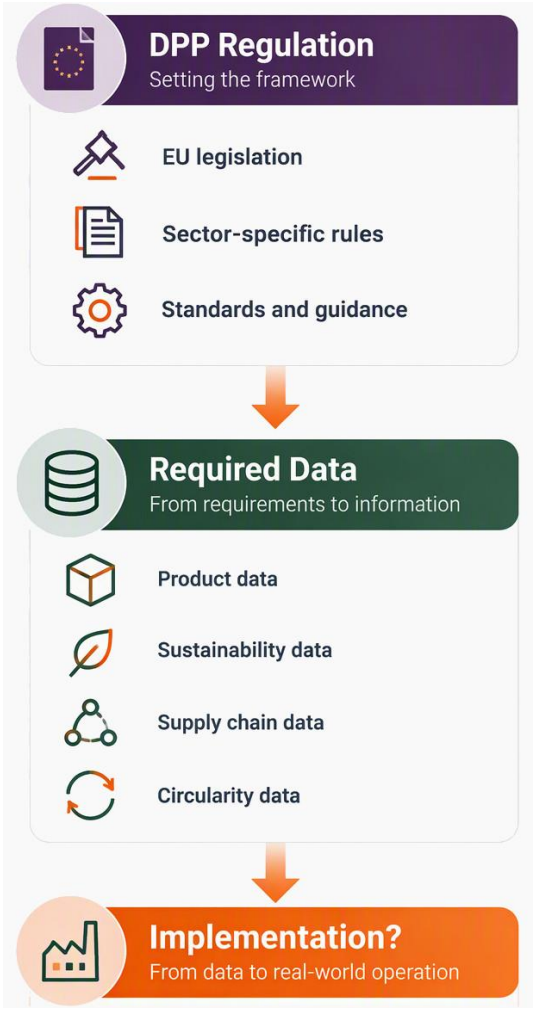
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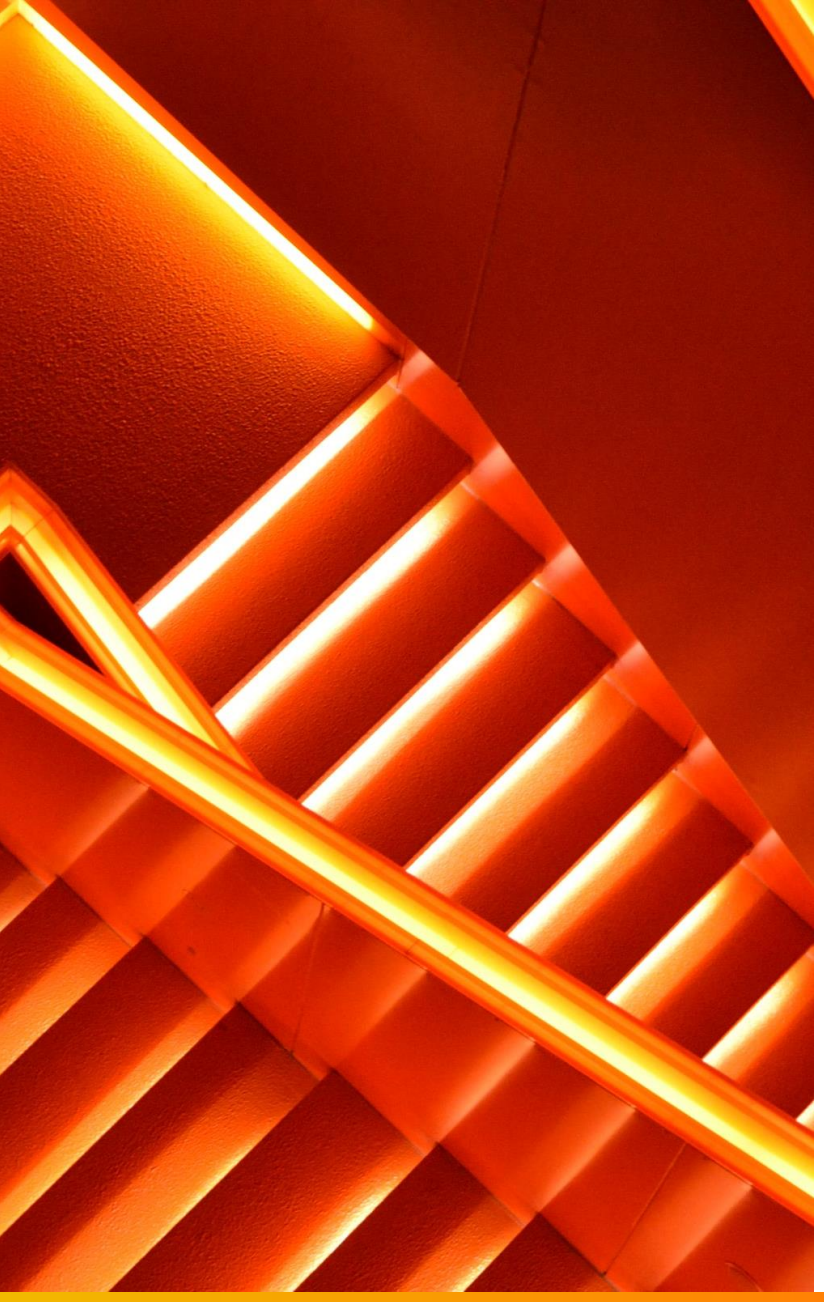


The next challenge: implementation



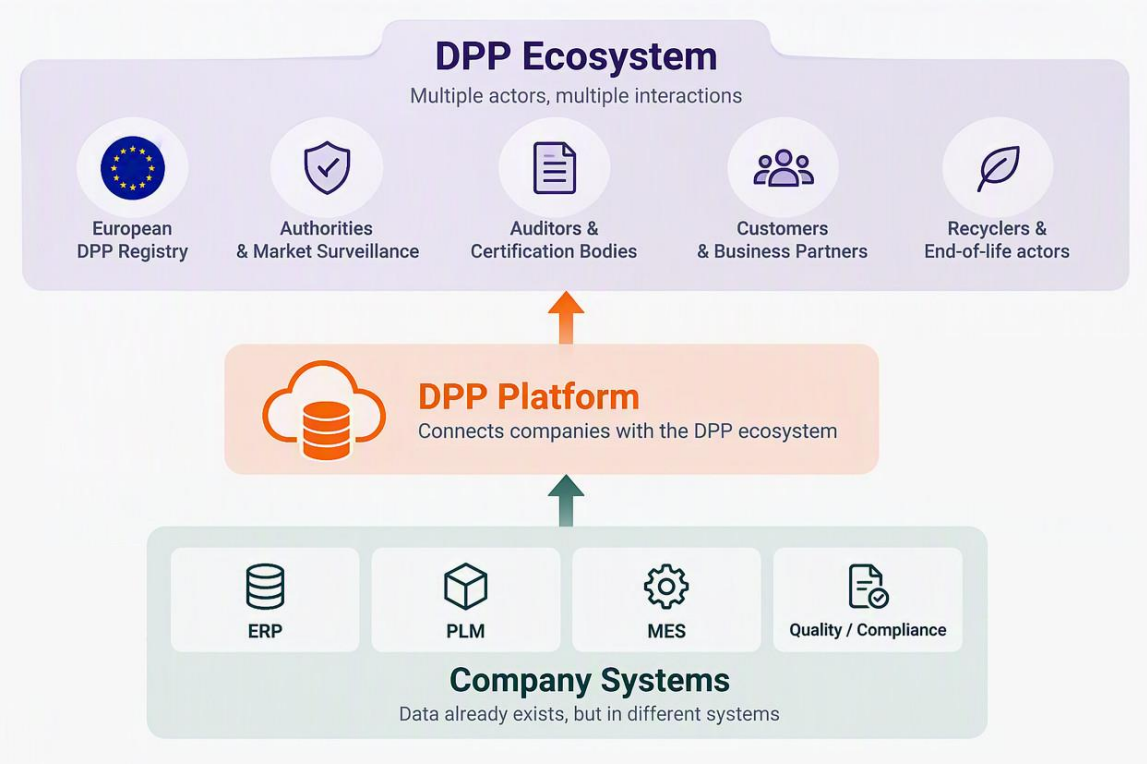
The challenge is no longer understanding *what* information will be required, but *how* companies can implement and operate DPPs efficiently in practice.

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What does implementation actually mean?

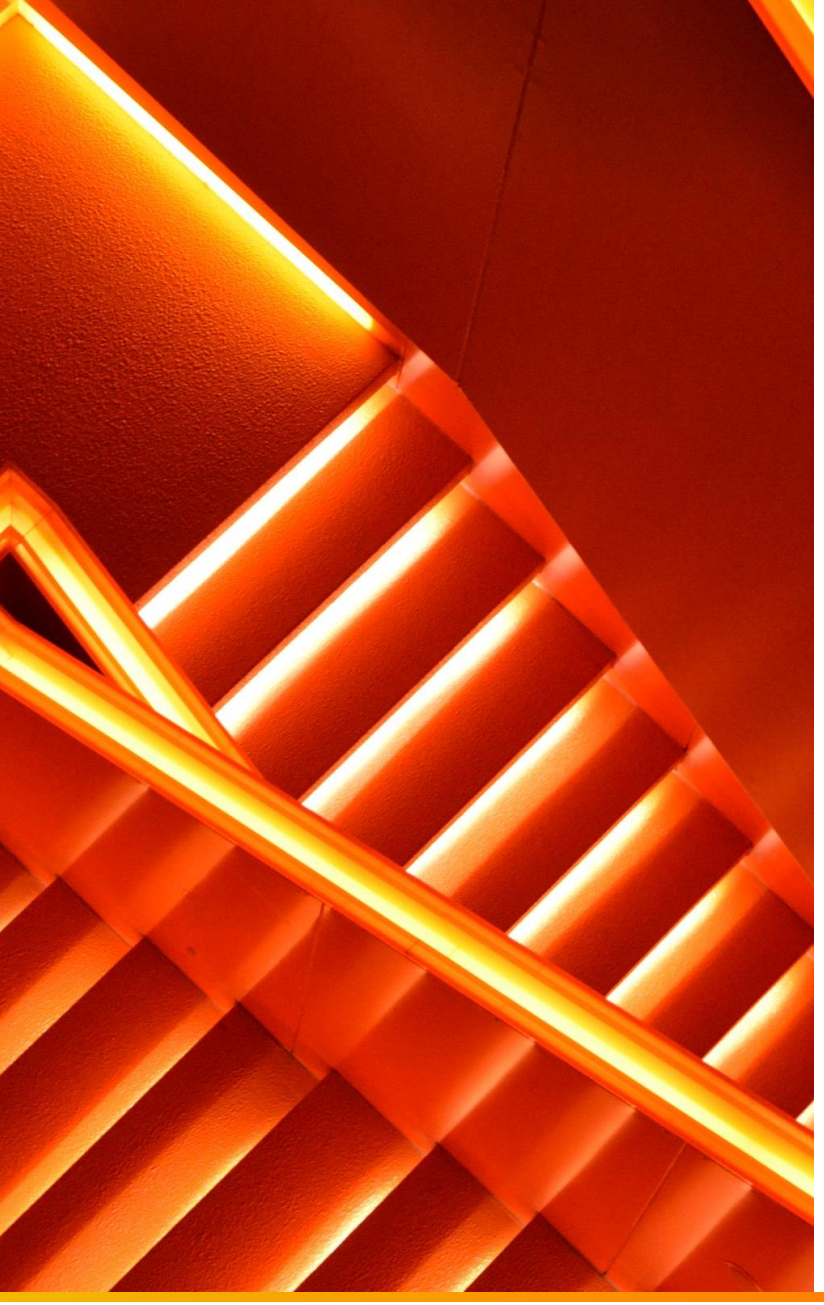
Collecting the required information is only part of the challenge.



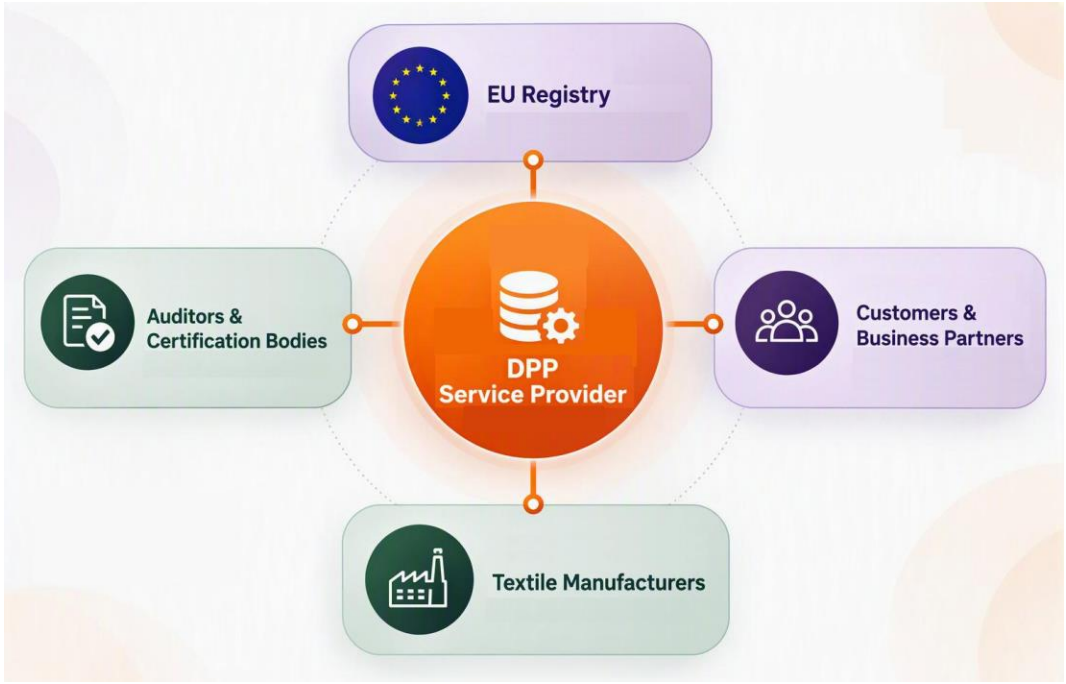
- Data is distributed
- Processes must be connected
- Interoperability is essential

Implementation means connecting systems, processes and people.

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Who will manage this complexity?



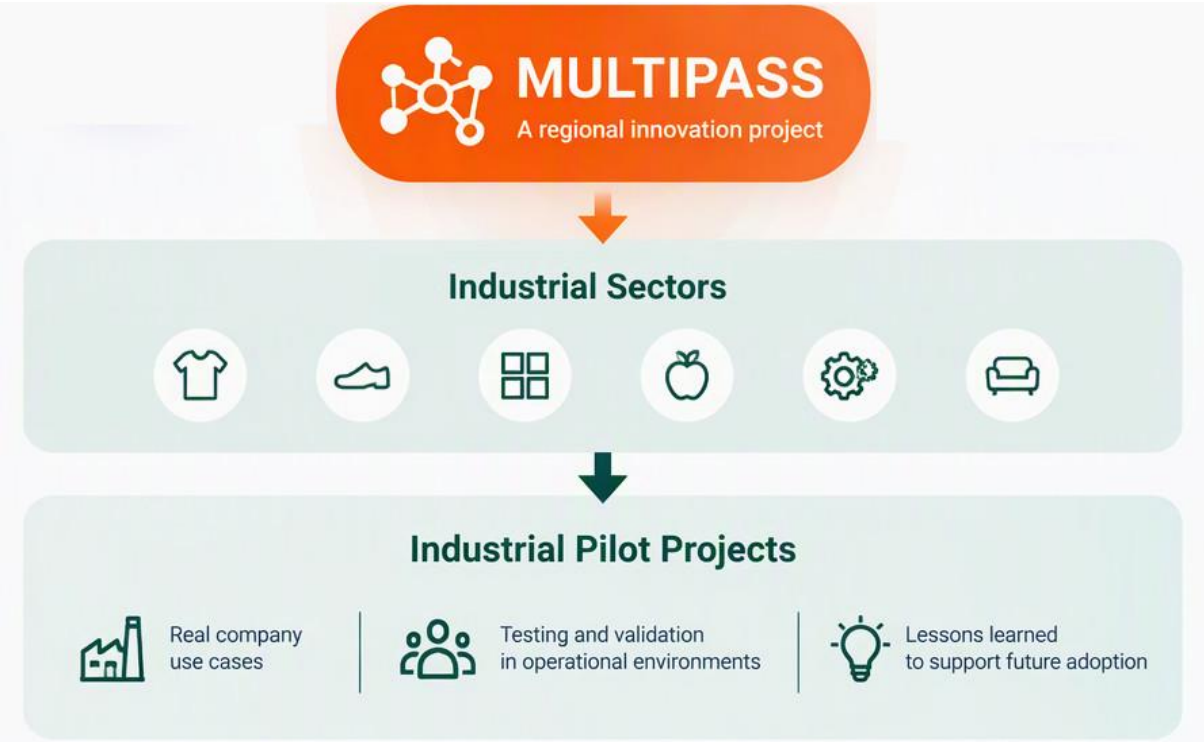
- Simplifies integration
- Manages interoperability
- Reduces complexity

A DPP Service Provider acts as the operational bridge between companies and the DPP ecosystem.

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MULTIPASS

A collaborative initiative bringing together technology centres and industrial sectors to develop practical approaches to DPP implementation.



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8 Technology Centres

Multiple Industrial Sectors

Pilot-Driven Approach

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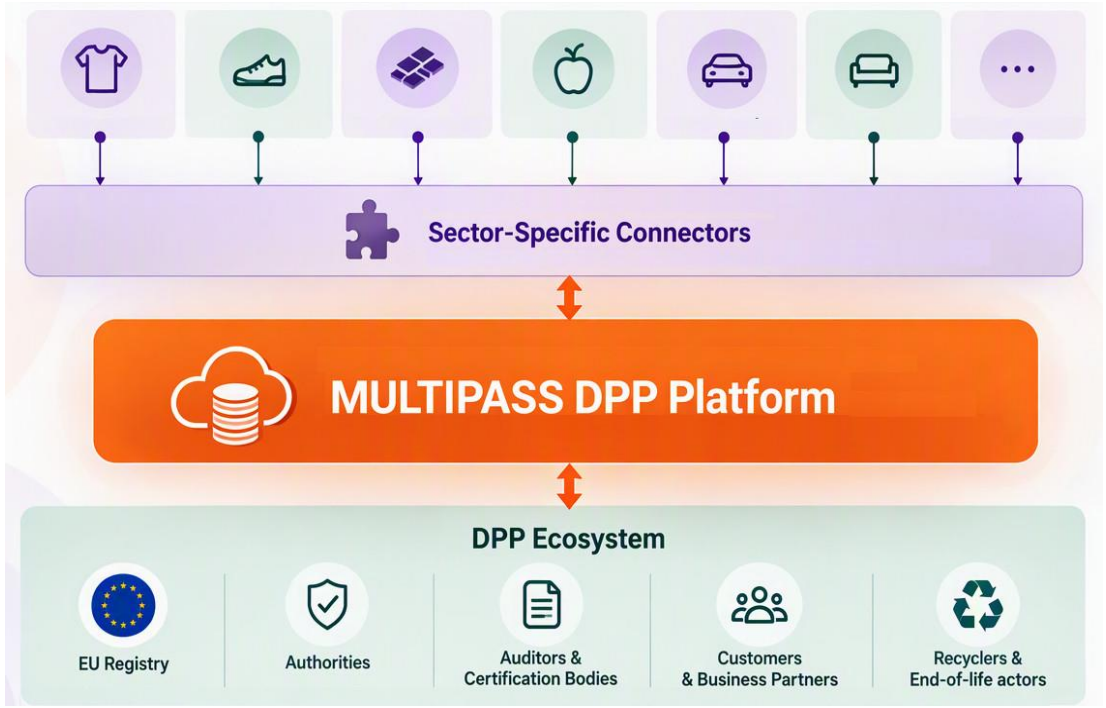
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MULTIPASS

A Multi-sector DPP Service Provider

MULTIPASS explores how a common DPP infrastructure can support different actors while preserving sector-specific requirements.



Common core across sectors
Shared DPP capabilities and reusable services.

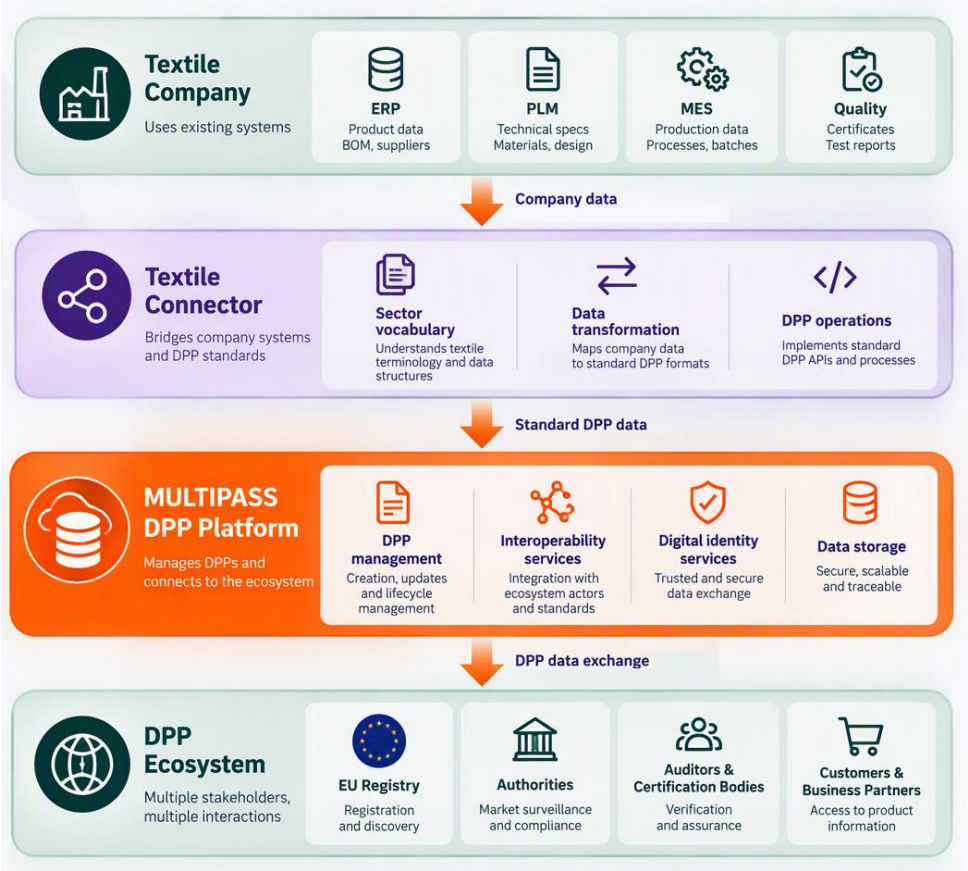
Sector-specific integration
Each sector maintains its own data model, vocabulary and operational needs.

Interoperable by design
Aligned with emerging European standards and initiatives.

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How would a textile company connect?

Companies continue working with their existing systems while the DPP platform manages complexity and interoperability.



1. Companies keep their systems
2. Sector-specific integration
3. Platform manages the complexity
4. Connected to the wider ecosystem

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Benefits for textile companies

A structured pathway towards DPP adoption, without having to manage the full complexity of the ecosystem internally.



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Beyond technology: supporting adoption

Technology is only one part of the DPP journey.

Companies also need guidance, expertise and practical support to make adoption a reality.



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THE PILOT

INNDIH AI Connect Services: Why a rug DPP?



Rols Carpets

WHO DOES WHAT

ROLS — Rug and carpet maker in Crevillent (Spain) since 1917 · B Corp · owns the data and runs the web passport

aitex — Textile technology centre · regulatory analysis and passport data model

multipass — Textile pilot of the multi-sector DPP project coordinated by ITI

WHY IT IS DEMANDING

1. **Textile product**
   Installed wall-to-wall, it is also a construction product: the CPR and EN 14041 apply on top of textile rules

2. **Raw materials**
   Surface, weft, warp, reinforcements and latex coating, each with its own function and origin

3. **Many readers**
   Homeowners, architects and interior designers, hotels, recyclers

4. **Ahead of regulation**
   No DPP obligation for rugs yet: a voluntary, anticipatory passport

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From regulation to a data model



1

Screen the rules

ESPR and the JRC study on textile DPP content · Textile Labelling Regulation · REACH · CPR and EN 14041 · product standards (EN 1307, EN 13501-1…) · CEN-CENELEC JTC 24 DPP standards

2

Build the data model

≈ 250 attributes in 13 blocks, each tagged with its source, obligation, access level and granularity (model, batch or item)

3

Check with the company

Does the data exist? Where does it live: ERP, suppliers, test reports, EPD? Who owns it, and what evidence backs it?

4

Design the passport

Group the data into 12 sections for consumers, specifiers and recyclers. Web front-end by Rols

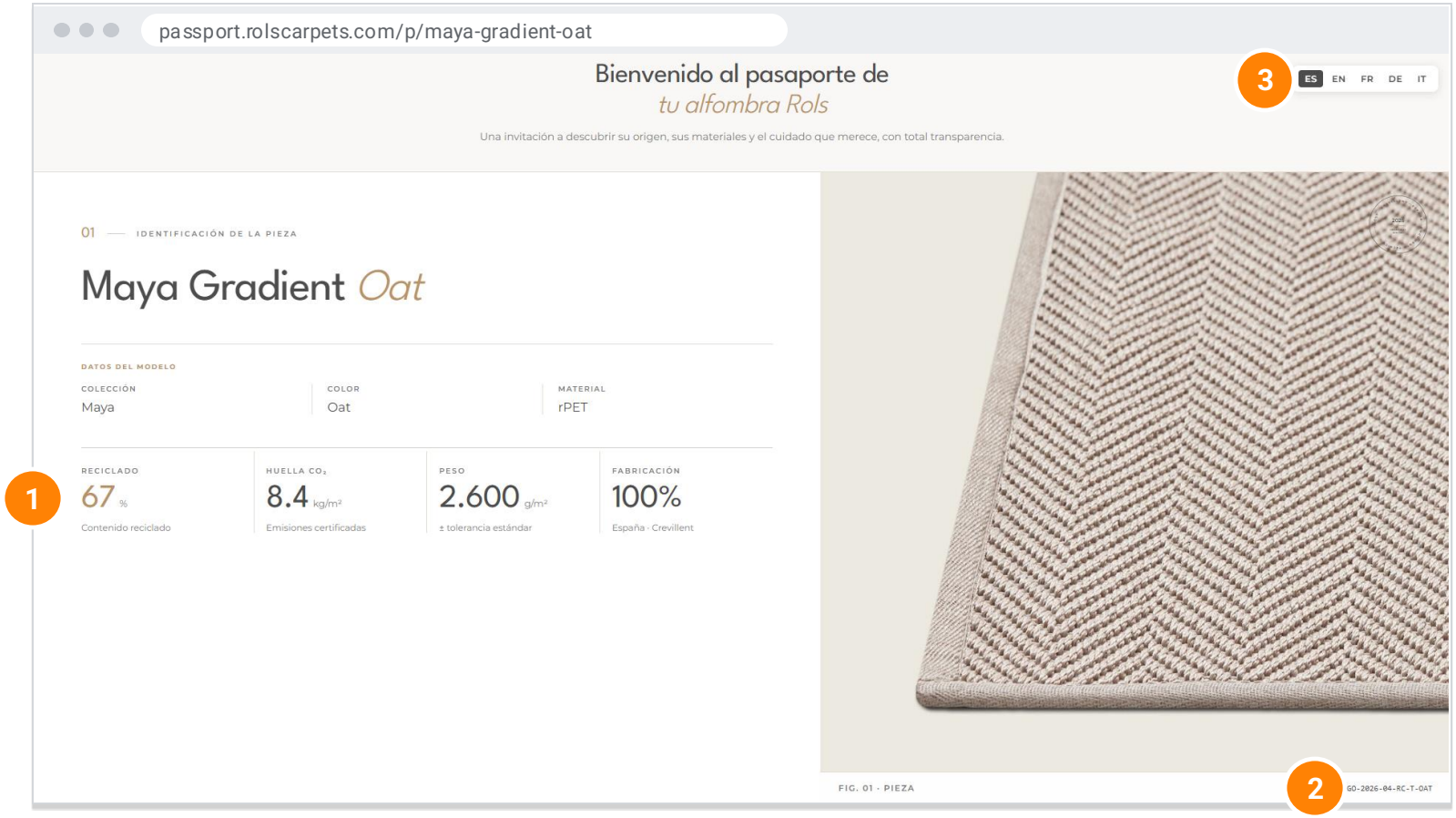
ANATOMY OF ONE ATTRIBUTE

ATTRIBUTE	VALUE	SOURCE	OBLIGATION	ACCESS	GRANULARITY	EVIDENCE
Reaction to fire	**D_{fl}-s1**	**CPR (EU) 305/2011 EN 14041 · EN 13501-1**	**Mandatory (CE marking)**	**Public**	**Model**	**Classification report**

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THE RESULT · ROLS DIGITAL PASSPORT

One QR code, 12 sections, 5 languages



1 **Key facts first**

Recycled content, CO_2e per m², weight and place of manufacture

2 **Product code**

MGO-2026-04-RC-T-OAT

3 **Five languages**

ES · EN · FR · DE · IT

12 SECTIONS IN 5 THEMES

PRODUCT
Identification · Technical specifications

MATERIALS & ORIGIN
Raw materials · Traceability · Manufacturing

USE & CARE
Applications · Installation · Maintenance

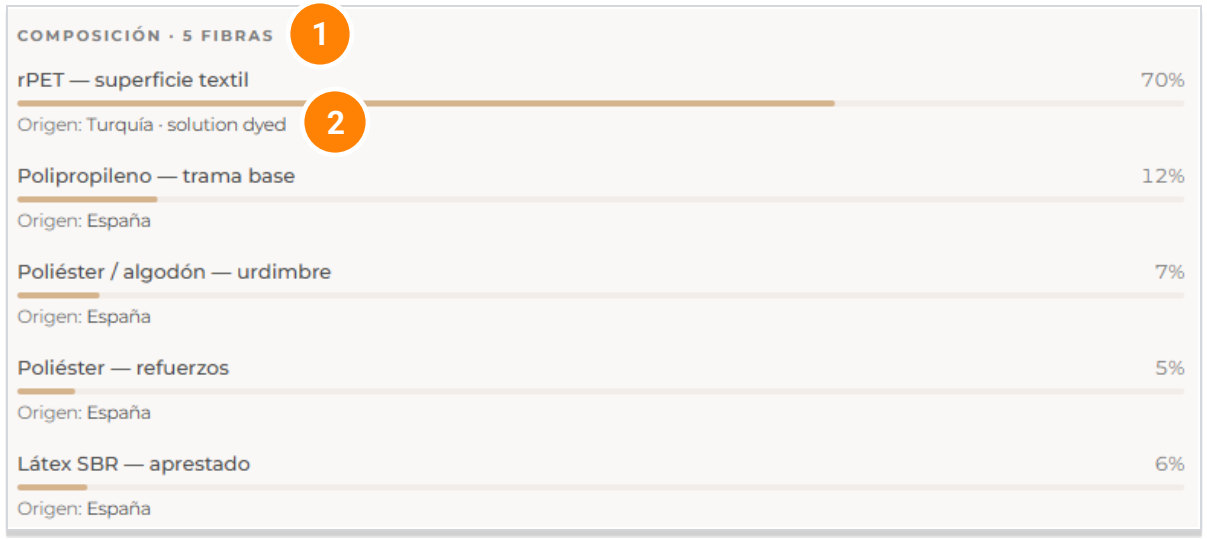
IMPACT & END OF LIFE
Warranty & end of life · Footprint

PROOF
Certificates · Authenticity

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MATERIALS & ORIGIN

What is it made of, and where does it come from?





1 **Every component, not just the main fibre**

Function, share and origin of all five materials: rPET surface (70%), PP weft, polyester/cotton warp, polyester reinforcements and SBR latex

2 **Recycled and solution-dyed**

rPET from post-consumer bottles. Colour added during extrusion: less water and chemicals, UV-stable colour

3 **From Turkey to customers across Europe**

Raw material › manufacturing in Crevillent › delivery: ≈ 3,450 km by sea and road. The process is described in 11 steps

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USE & CARE

The right rug, in the right place, for longer





1 **Where it fits**

Home, hotels, restaurants, retail and leisure boats, flagging the uses that need fire certification

2 **How to install and care for it**

As a rug, wall-to-wall or on stairs, and a care routine: from weekly vacuuming to professional deep cleaning every 12–18 months

15–20 years

estimated service life with proper care. The longer it lasts, the lower its impact per year of use.

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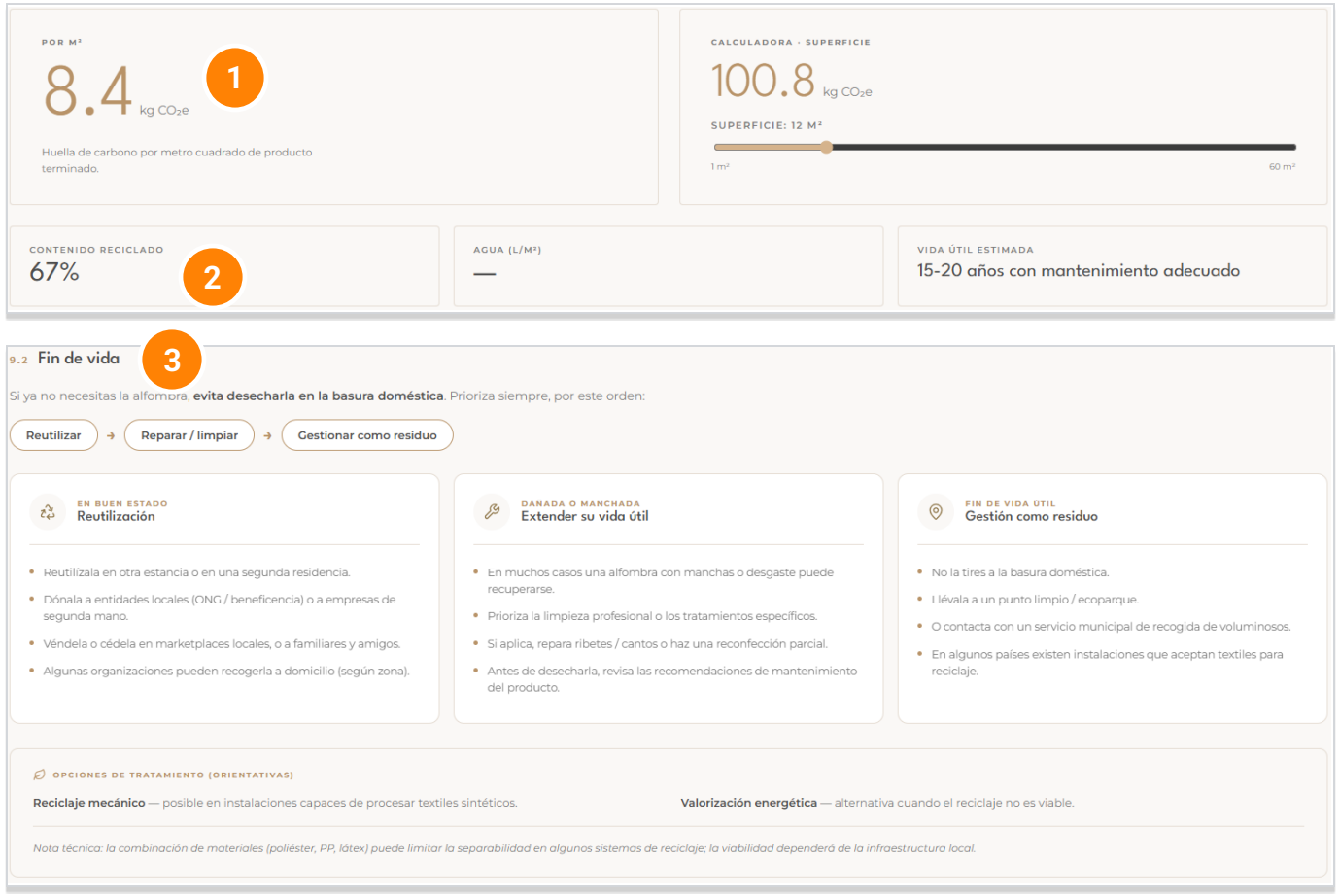
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IMPACT & END OF LIFE

Its footprint, its guarantee and its next life



1 A footprint you can check

8.4 kg CO_2e per m², a calculator for the real surface (12 m² = 100.8 kg) and the EPD to download

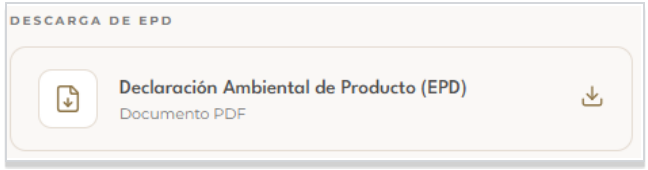
2 Where the impact comes from

About 75% of the footprint comes from the recycled PET raw material · 67% recycled content

3 Guarantee and end of life

3-year legal guarantee · reuse › repair or clean › waste management, with an honest note on the limits of recycling mixed materials

EVIDENCE, ONE CLICK AWAY



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PROOF

Every claim backed by evidence





1

Test results in plain language

Use class, reaction to fire (D_{fl}-s1), slip resistance, light fastness, underfloor heating, antistatic behaviour… with their reference standards

Claims need evidence

EU anti-greenwashing rules apply from 27 September 2026 (Directive (EU) 2024/825)

2

Certificate of authenticity

Woven in Crevillent. The QR code sewn on the back links the rug to its online passport

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LESSONS LEARNED

Five takeaways from the pilot

01	**Data is the hard part**	The web page is the easy bit. Finding, structuring and justifying the data takes most of the effort.
02	**Trace every field to its source**	Link each attribute to the rule that requires it and to the evidence behind its value.
03	**Decide the granularity early**	Model, batch or item? Piece-level authenticity needs item-level identifiers, which affects labels and production systems.
04	**Describe the whole product**	Component-level data (function, share and origin) drives recyclability and end-of-life advice.
05	**One passport, many readers**	Public and restricted data for consumers, specifiers, recyclers and authorities need access control and verifiable data: the role of a platform like MULTIPASS.

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FROM PILOT TO YOUR COMPANY

How INNDIH AI CONNECT can help your company

INNDIH AI CONNECT is a European Digital Innovation Hub for the Valencia Region, coordinated by ITI, with technology centres such as AITEX and associations such as ATEVAL among its partners.

01

Training & digital skills

FOR YOUR DPP

Get your team ready: DPP requirements and data management.

02

Test before invest

FOR YOUR DPP

Check your data readiness and pilot passport on one product family before scaling up.

03

Funding & business boost

FOR YOUR DPP

Identify public funding to implement your DPP.

04

Ecosystem connection

FOR YOUR DPP

Meet technology providers, technology centres and partners along your value chain.

INNDIH 2023–2025: ≈ 1,000 services delivered to 600+ companies, mostly SMEs, and €4M+ of additional funding mobilised

Start small: one product family, the data you already have, then scale.

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Thank you!

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