DPP
LEARNING KIT

December 2025

EDGYN x **Inexto**

DIGITAL PRODUCT PASSPORT

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INDUSTRIES

Regulated Markets
(Beverages, Tobacco)

Beauty & Luxury
(Perfumes, Cosmetics, Leather Goods)

Health, Pharmaceuticals & Agrochemicals

Government Solutions
(Stamps, ID documents and passports, Excise Revenue Management, Coins)

SERVICES

- ✓ To fight against counterfeiting & grey market
- ✓ To comply with regulations requiring traceability systems
- ✓ To boost client interactions

PART OF

IMPALA

1+
BILLION € GROUP

20+
YEARS

200+
EMPLOYEES

100+
BILLION PRODUCTS TRACED ANNUALLY

1 700+
PRODUCTION LINES EQUIPPED

10+
BILLION PRODUCTS PROTECTED

Content

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Context

The DPP is a game-changer for circularity and compliance

The concept of the DPP was first introduced by the EU with the aim of supporting the **circular economy and sustainability.**

The DPP is one facet of many regulations aimed at helping to deliver the **EU's sustainability goals.**

Not only in the EU, but the DPP concept is part of other regulations around the world.

Beyond the sustainability goal, the DPP is becoming a key point of **connection between brands and consumers.**

Regulatory context

The **ESPR** (Ecodesign for Sustainable Product Regulation) is the umbrella regulation of the DPP.

It's a new law that aims to make products in the EU more environmentally friendly – **more durable, reusable, repairable, and recyclable.**

The DPP is the **central digital pillar** of the ESPR and forms the basis for the digitalization of product information.

The DPP should be designed to work in harmony with other regulations and used beyond ESPR.

(!) In the EU, when a new law is made, sometimes not every little detail is included. That's where delegated acts come in – they're extra rules or updates (e.g., what exactly must go into the DPP for each product group).

European Commission

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What is a digital product passport?

Collect and share product information across the product lifecycle

Digitally **store** data (in the cloud)

Provide **easy data access** through scannable data carriers (e.g., QR code)

The **DPP** is a vehicle of information that provides digital access to product-specific information on **sustainability, circularity, and legal compliance.**

PRODUCT IDENTIFICATION

- Unique product identifier
- Product name and model
- Economic Operator identifier
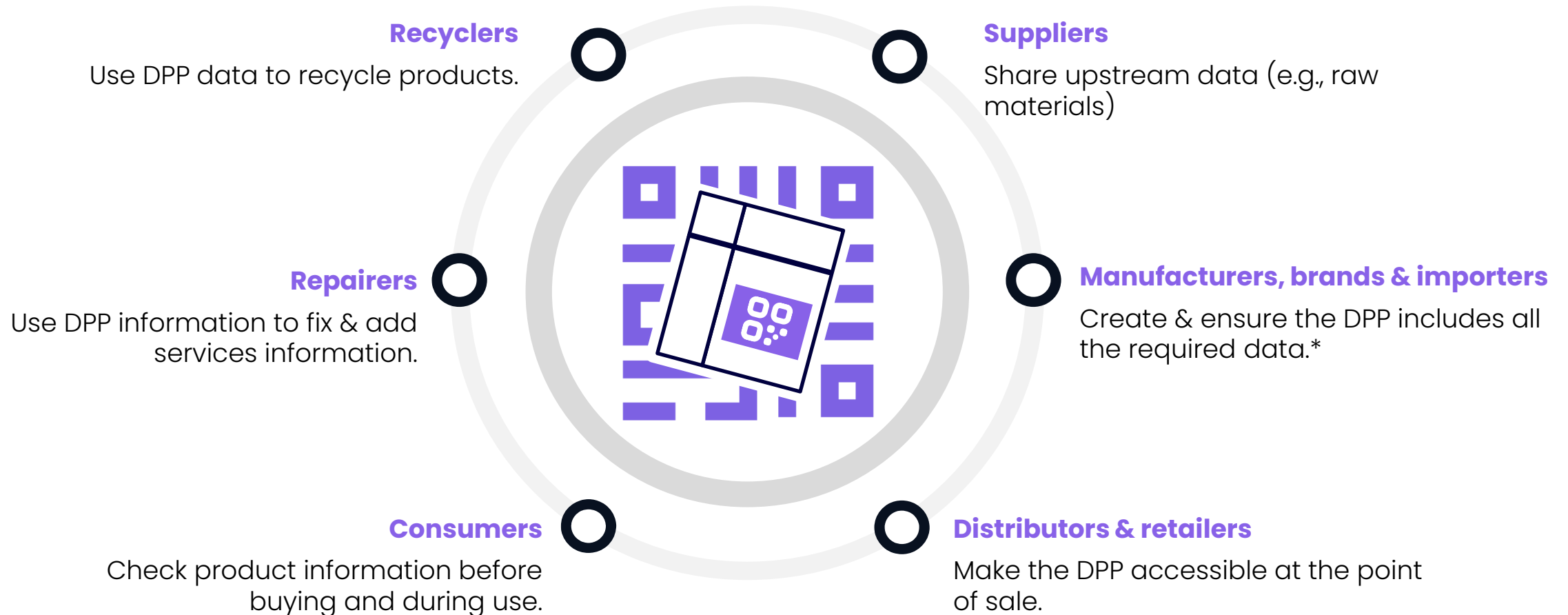- Facility identifier
- Registry identifier

ADDITIONAL PRODUCT INFORMATION

- List of materials and components
- Country of origin
- Date of manufacture
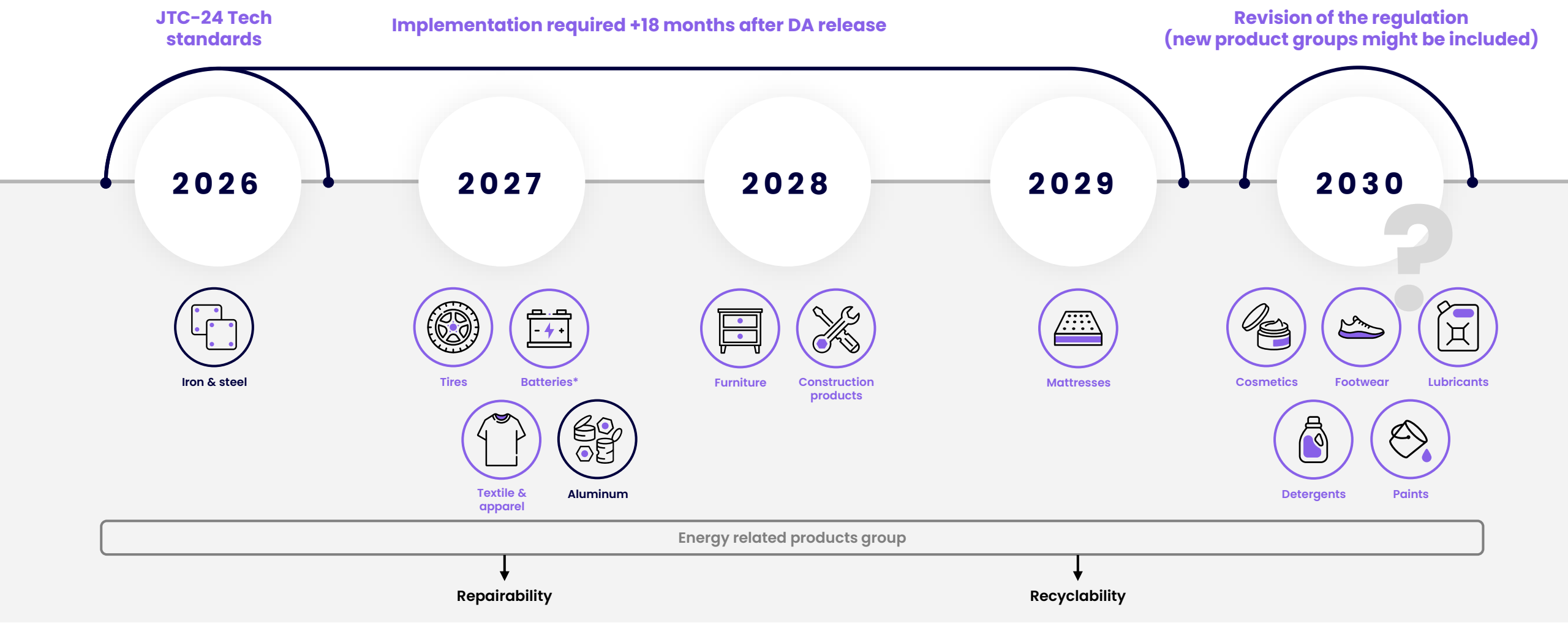- End-of-life options (recycling, disposal)

Mandatory data

Additional product data defined in delegated acts of the product groups

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Who is impacted?

Recyclers

Use DPP data to recycle products.

Suppliers

Share upstream data (e.g., raw materials)

Repairers

Use DPP information to fix & add services information.

Manufacturers, brands & importers

Create & ensure the DPP includes all the required data.*

Consumers

Check product information before buying and during use.

Distributors & retailers

Make the DPP accessible at the point of sale.

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Note: The DPP must be created by the economic operator responsible for placing the product on the EU market (manufacturer, brand owner, or importer).

Scope and timeline of Delegated Acts (DA) release

JTC-24 Tech standards

Implementation required +18 months after DA release

Revision of the regulation (new product groups might be included)

2026 — Iron & steel

2027 — Tires, Batteries*, Textile & apparel, Aluminum

2028 — Furniture, Construction products

2029 — Mattresses

2030 — Cosmetics, Footwear, Lubricants, Detergents, Paints

Energy related products group

Repairability

Recyclability

Note: The energy-related products group includes products such as dishwashers, washing machines, mobile phones and tablets, fridges, etc.

■ Final products (end-user products)
■ Intermediate products (components, materials)
□ Horizontal requirements (ICT and some energy-related products)

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Industries impact & actions

Product groups	Potential impact on sub-sectors	Actions
Aluminum **Iron & steel**	• Beverage • Spare parts	• Preparing for downstream DPP obligations is strongly recommended
Textile & apparel	• Luxury textiles & apparels	• High pressure to act • Those who start in 2025 can help shape the standard – not just react to it
Furniture **Mattresses**		• More time, but complex supply chains require early preparation • Transparency and DPPs can be leveraged as strong brand assets
Tires **ICT** **Household**	• Spare parts	• High impact from horizontal requirements • Repairability, recycled content, and energy use are in the spotlight • Early DPP strategies ensure future compliance and unlock added value
Batteries	• E-cigarettes	• E-cigarettes are not part of the regulation, but we do not exclude involvement in the future.
Chemicals	• Cosmetics	• No immediate legal pressure (2030) • More creative freedom for brand storytelling and market differentiation • Voluntary implementation is welcomed by the EU • Early starters gain a competitive advantage as they prepare for future requirements

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Multiple initiatives are shaping the DPP, with EDGYN & Inexto actively contributing

01. Regulatory requirements

EU regulators (EU Commission, Council of the European Union, European Parliament) set content requirements. Delegated acts for each product group will be published:

From Q1 2026

02. Technical standards

CEN-CENELEC JTC 24 (Joint Technical Committee 24) sets the technical framework and standards, which will be published:

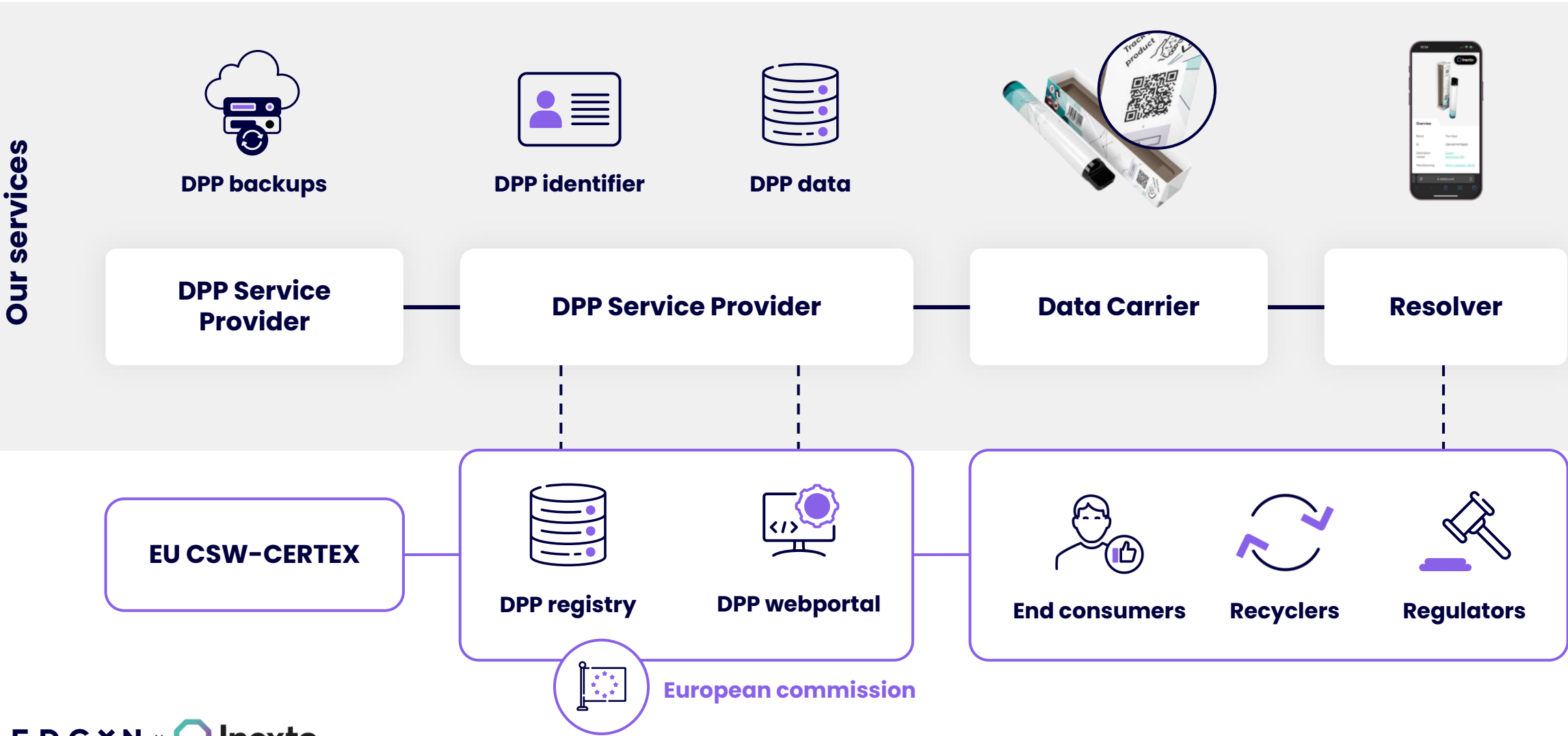**From Q1 2026**

03. EU DPP concepts & pilots

Insights & learnings from EU pilots

Contributing to defining the standards and the regulations

Ongoing

How does a DPP-compliant system look?

Our services

DPP backups

DPP identifier

DPP data

| DPP Service Provider | DPP Service Provider | Data Carrier | Resolver |

EU CSW-CERTEX

DPP registry

DPP webportal

European commission

End consumers

Recyclers

Regulators

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Combine QR code and resolver to create multiple client experiences and comply with all local regulations

OUR RESOLVER

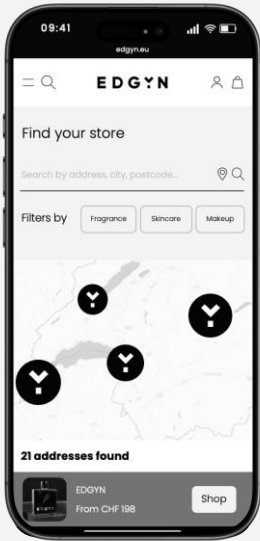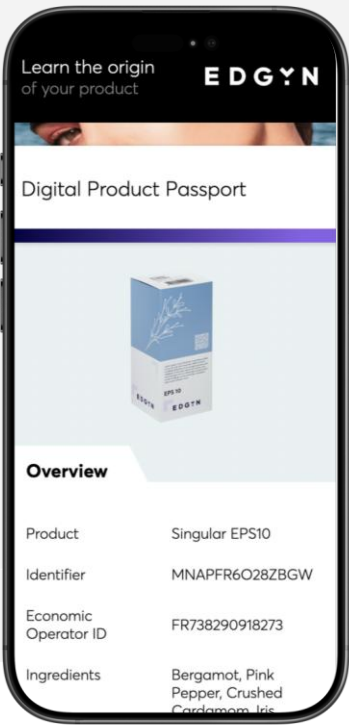Augmented QR Code Also called "GS1 Digital Link QR Code"

Re-directed to experiences, based on a set of rules

MULTI-EXPERIENCES

MULTI-REGULATORY

Client Experience 1

Client Experience 2

Frontend template highly customizable

EU regulation

CN regulation

Uncover and use hidden synergies

A single digital source replacing fragmented data & documentation silos–streamlining access for regulators, partners, and consumers. Early-stage data integration not only simplifies compliance but also empowers transparent, customer-facing communication.

Cosmetics regulations (EU / CSR / MoCRA)

Require disclosure of ingredients, safety assessments, and compliance by jurisdiction (EU, China, US).

REACH / SCIP (Chemicals)

Requires disclosure of Substances of Very High Concern (SVHCs) and submission to the SCIP database.

CE marking / product safety

Products with CE marks must include technical documentation to demonstrate safety and conformity.

AGEC law (France)

French circular economy law mandating repair index, environmental labelling, traceability, and digital info access.

Right to repair (EU directive)

Requires access to repair instructions, spare parts, and repair services for consumers and professionals.

PPWR (Packaging Waste Regulation)

Requires to include data on recyclability, material composition, and origin via a data carrier on packaging.

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Unlock new use cases & opportunities beyond compliance

Recycle

Transform product into raw materials or sub-components, re-enter the production cycle

Client interaction

- Provide direct access to reviews, care instructions
- Create loyalty programs and exclusive access for events

Reuse

Reintegrate product into circulation through resale or rental models

Augmented products

- Provide additional product information
- Provide authentication, authenticity/ownership certificate
- Manage warranty (activation, extension).

Repair

Extend product lifespan by restoring or replacing sub-components

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Tremendous benefits and opportunities

Compliance & Bureaucracy Reduction

Customs declarations, conformity assessments, and environmental certifications can travel digitally with the product, reducing paperwork and burdens.

Operational & Cost Efficiency

A machine-readable, interoperable passport replaces fragmented documentation, streamlining data management across supply chains and information accessibility across the product lifecycle.

Circularity & Sustainability

Consolidate material origin, composition, and lifecycle impact—supporting eco-design, recyclability, and regulatory sustainability goals.

Trust & Transparency

Share additional product information, prove repairability & ownership, and communicate product safety and compliance directly to consumers and regulators.

Innovation & Future-Readiness

Enables new customer experiences, reconnects with your clients, and aligns with upcoming EU and international regulations.

Seamless Interoperability

Connect with GS1 standards and other industry standards to enable efficient collaboration across the value chain.

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Inexto & Edgyn expertise

Serialization

Serialize the product (item, batch, product) and pair with data carriers

Data Carrier & Pairing

Select the most suitable data carrier & pair with physical product

Authentication solutions

Add additional authentication solutions for other use cases

Supply Chain Module

Provides end-to-end visibility and management of product flows, inventory, and logistics processes

Track & Trace Module

Enables real-time monitoring and recording of product movements and events

EU registry management

Access & registration into decentralized EU registry

DPP back-end system

Create, modify, enrich, delete DPPs

DPP Backup storage

Create mandatory copies of DPPs

Reporting & Monitoring

Generate insights from our personalized dashboards

DPP front-end template

Use standard & customizable templates

Resolver

Redirect to specific client experiences according rules

Act now – anticipate regulations and make the most of them

☑ Establish interdisciplinary teams to **monitor regulations** and respond proactively or via a service provider

☑ **Educate** your teams, share knowledge

☑ Start with a **pilot (small range of product and use cases)** and **gain maturity, learnings, and insights**

☑ Stabilize the solution and refine processes

☑ Increase product scope and use cases

We are your DPP trusted partners.

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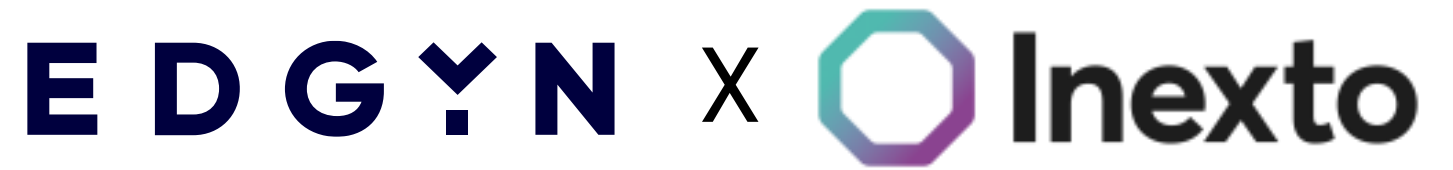
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