

# The Digital Product Passport Basics and status quo

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Association Industry 4.0 Austria – the Platform for Smart Production

 **INDUSTRIE 4.0**  
ÖSTERREICH

 **PASSAT**  
Digital Product Passport  
Austria & Beyond



Gefördert durch

 Bundesministerium  
Innovation, Mobilität  
und Infrastruktur

 **FFG**  
Forschung wirkt.

 **DLR Projektträger**

Gefördert durch:

 Bundesministerium  
für Wirtschaft  
und Klimaschutz

aufgrund eines Beschlusses  
des Deutschen Bundestages

# Ecodesign Regulation

## Ecodesign Framework Regulation

Ecodesign  
Forum

16 Ecodesign criteria:

Performance

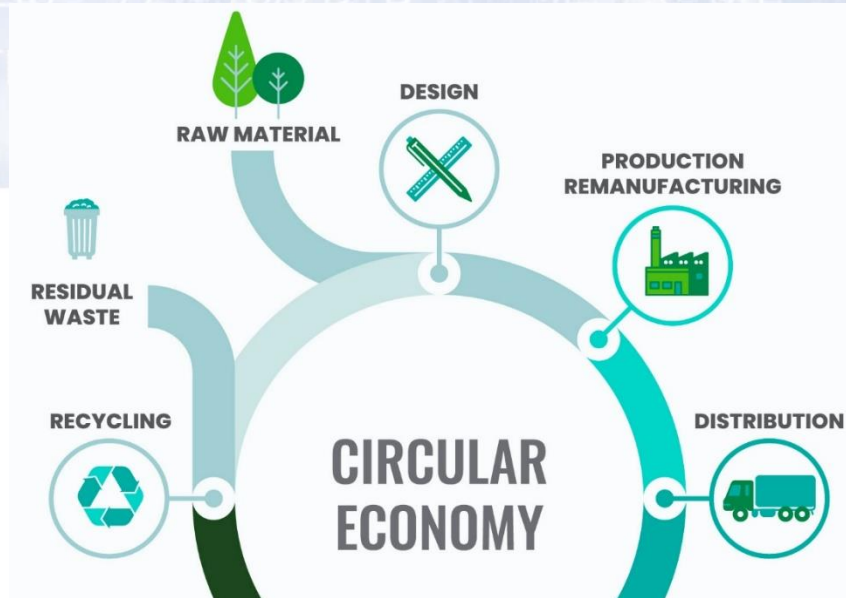
Information criteria  
**Digital Product  
Passport**



In delegated acts  
3-5 year work plan

Prioritized product groups:

- › Iron and steel
- › Textiles, especially clothing and footwear
- › Aluminium
- › Furniture, including mattresses
- › Tire
- › Energy-related products
- › ICT Products & Electronics



A problem for a more circular economy is often a lack of access to relevant information for various actors along the value chain



## System Boundary



# What is the DPP?

## Technical

The digital product passport is a structured data set of product- or material-related data and has several functions:

- › Collect product information across the product lifecycle
- › Digital storage of data
- › Easy access to data (e.g. through scannable QR codes)

→ CV of a product



## Regulatory

- › Anchored in the Ecodesign Regulation
- › Details specified in delegated acts
- › Access by marker (QR code, etc.) with predefined access rights
- › Distributor of a product is responsible for the DPP – Decentralized storage of data + backup
- › For products manufactured or imported in the EU – without DPP, a product may not be sold
- › For companies of all sizes, including SMEs

# DPP-system vs. DPP-data

CEN/CENELEC

HOW?

DPP-system

Standards related to IT architecture

- > e.g.: unique identifier, data carrier, access rights, interoperability data processing, archiving, authentication, programming interfaces,...
- > **Open to technology** - compliance with standards required
- > For every person & software, at any time, permanently, free of charge, human and machine-readable
- > Easy to use, SME friendly
- > Content defined by European Commission
- > **Currently, no one can build standards-compliant DPPs**



WHAT?

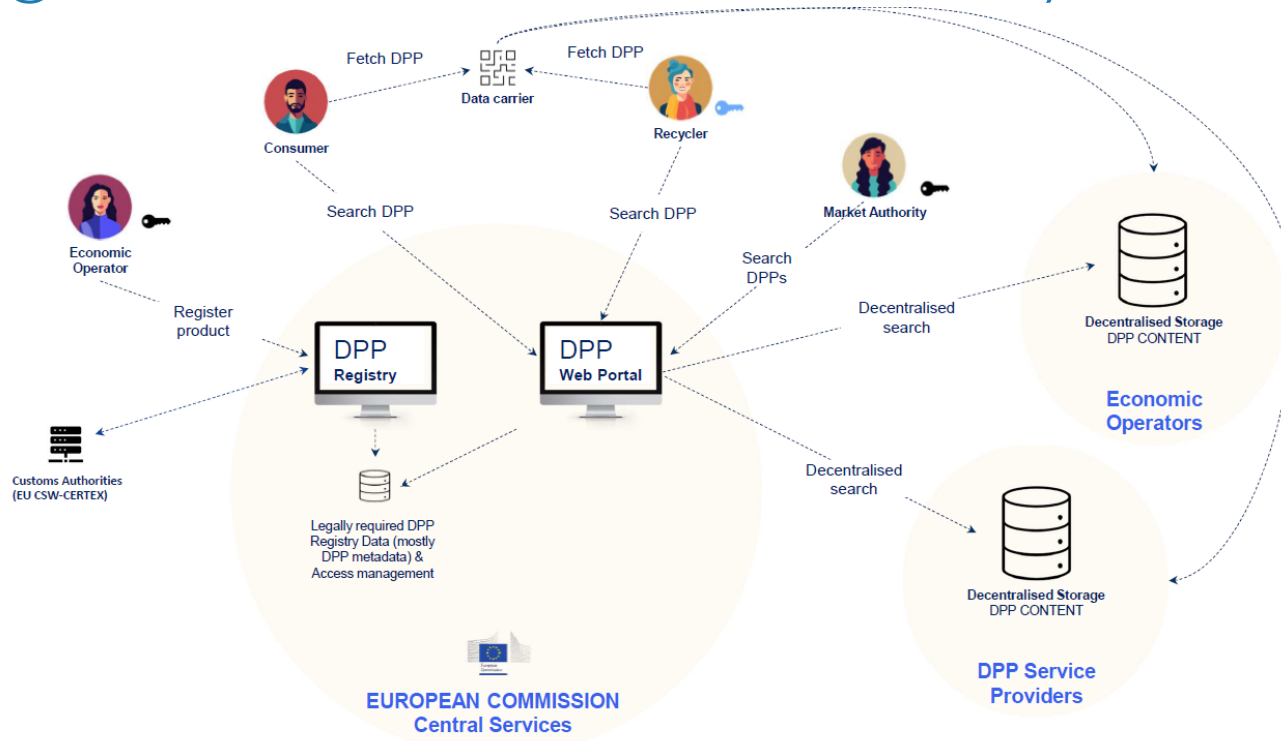
Delegated acts

DPP-data

What information needs to be collected in the DPP?



# Big Picture of the DPP-Data system



# DPP-Service-Provider (DPPSP)

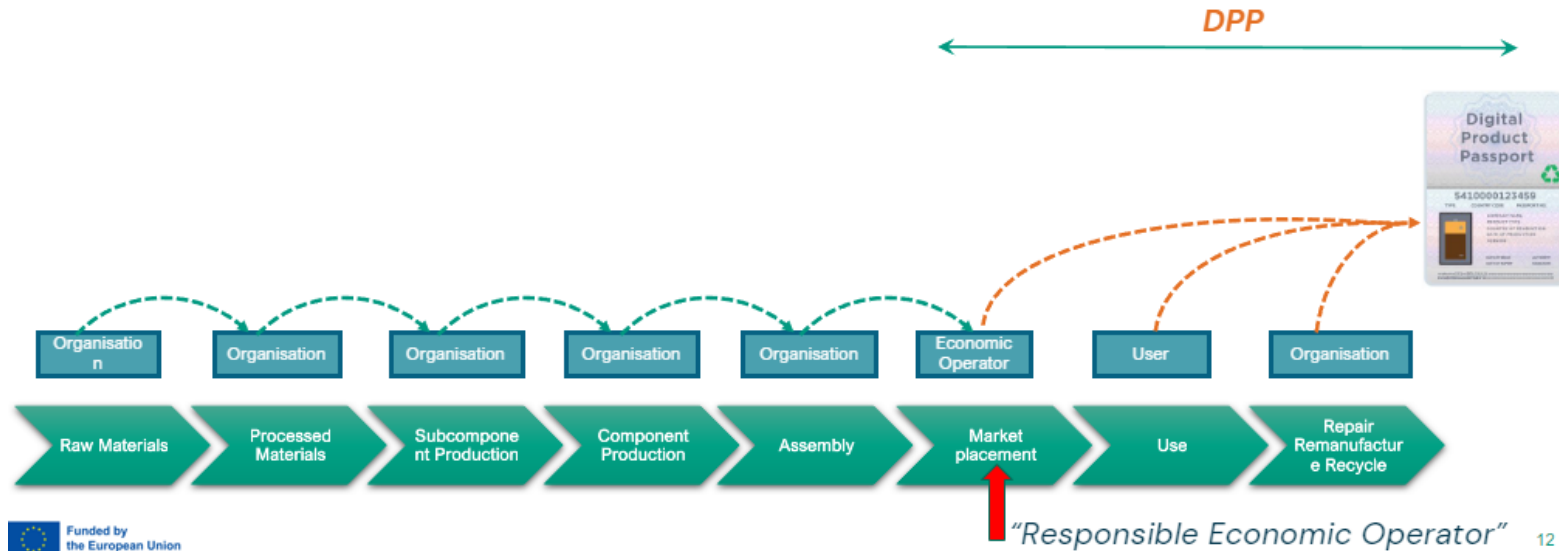


DPP service providers are third-party actors who can assist businesses/SMEs in all steps related to the DPP.

For example, the collection, compilation and formatting of DPP information and the creation of the DPP itself and/or the hosting of the data.

→ Cannot currently be DPP standard-compliant because standardization is not yet complete

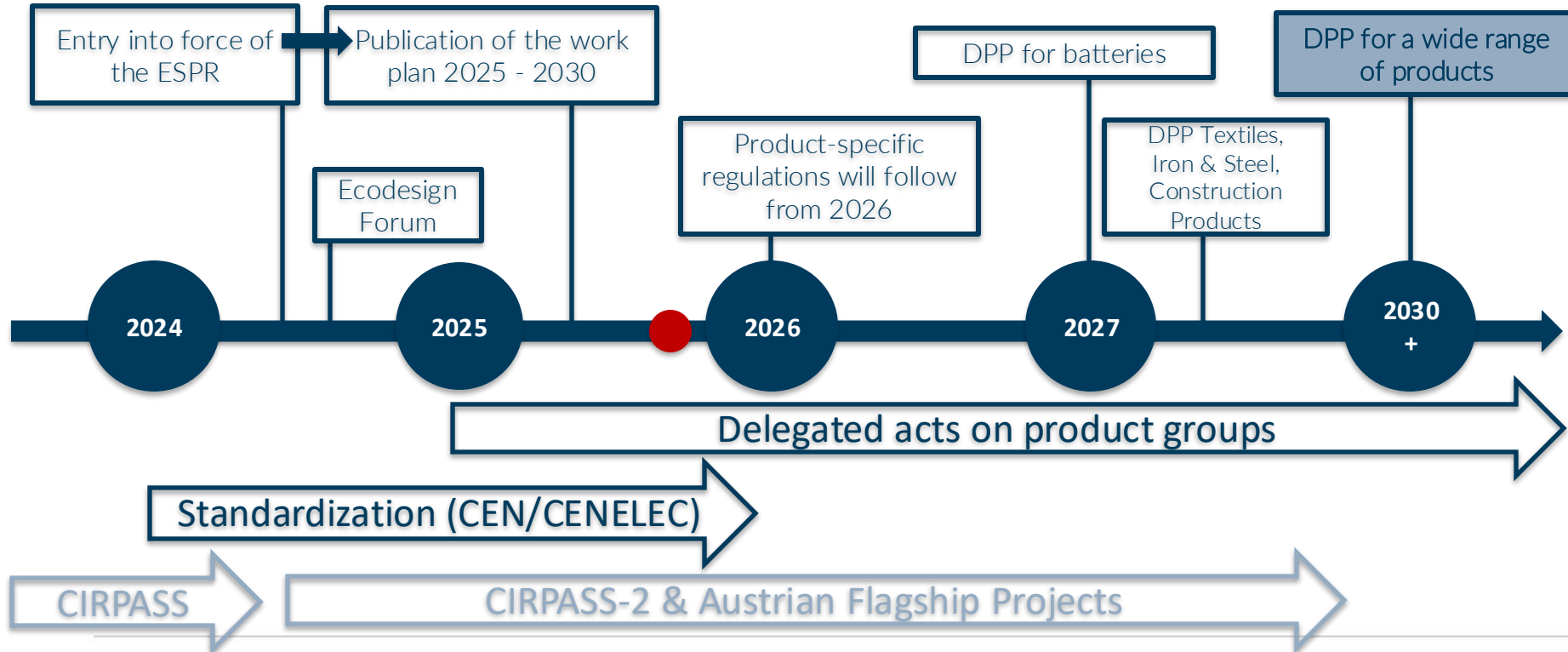
# When is the DPP necessary?



# Essential Requirements for Companies

- › Ensure that a product **passport exists** and meets the essential requirements set out in Articles 10 and 11.
- › Ensure that the product **passport is complete**, i.e. that it contains all mandatory information according to the product-specific delegated act.
- › Ensure that the information contained in the product **passport is authentic, reliable and verified**, in accordance with the requirements of the product-specific delegated act.
- › A **backup copy of the digital product passport** is stored by a [certified] third-party product passport service provider.
- › A **copy of the media** or **unique product identifier** will be provided to merchants and online marketplaces selling the relevant product.

# Schedule



# DPP Example

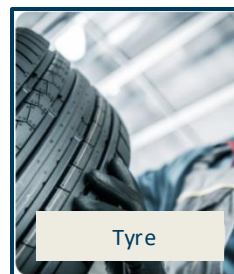
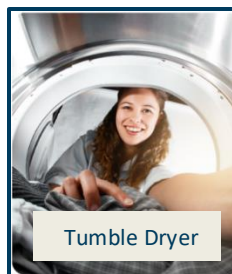
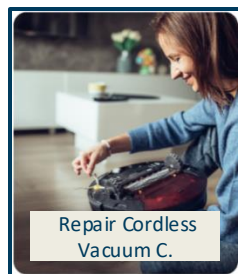
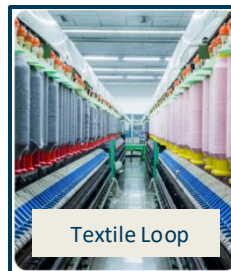
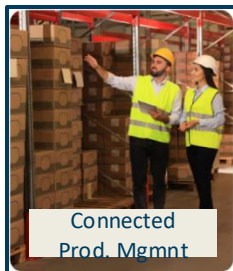
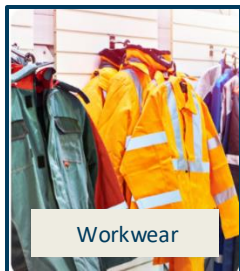


*„The DPP will become the main tool for the disclosure and exchange of product information in all new and revised product legislation. The DPP, introduced by the Ecodesign for Sustainable Products Regulation (ESPR), will serve as a digital container for digital labels, compliance documentation, instructions for use and manuals, certain safety information, technical documentation and other information required by EU law, and has already been included in several new EU legal acts....“*

EU Single Market Strategy, adopted on 21<sup>st</sup> of May 2025

# Relevant Projects

- › Follow-up project to CIRPASS: CIRPASS-2 will demonstrate digital product passports in real-world environments through circular use cases in the textile, electronics, tire and construction value chains.
- › Start 05/24 – Duration: 3 years- 49 Partner
- › **Applications:** 6x textiles, 5x electronics, 1x tires, 1x construction sector
- › **Stakeholder involvement via Expert Groups:** <https://cirpass2.eu/what-is-cirpass-2-stakeholder-community/>
- › **Tasks Platform Industrie 4.0 :** Analysis of the challenges and opportunities for DPP Downstream;
- › Creation of training and information materials specifically for SMEs.
- › <https://cirpass2.eu/> | <https://www.linkedin.com/company/cirpass2-dpp/>



[www.cirpass2.eu](http://www.cirpass2.eu)

**CIRPASS-2 Stakeholder Community**



- › Together with PACE-DPP, PASSAT is one of two Austrian flagship projects for the DPP
- › Start 02/25 – Duration: 3 years – 21 Partner
- › Applications: 3 Use Cases: Textiles, electronics and transferability use case
- › Tasks Plattform Industrie 4.0 : DPP-System, DPP-Data, Industry Impact, Communication
- › <https://digitaler-produkt-pass.at/> | <https://www.linkedin.com/company/106623483/>

PASSAT supports Austrian companies in the implementation of the Digital Product Passport to promote sustainable growth through circular economy and innovative production processes.

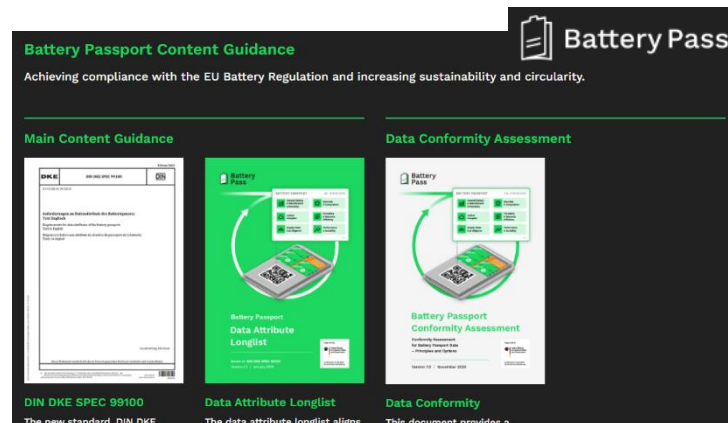
- Practical solutions
- Regulatory recommendations
- Training
- Pilot projects: Textiles, Electronics, Ski Industry
- Stakeholder Community
- Basis for a broad introduction of DPPs in Austria



# Other projects

## FFG-Projektdatenbank:

- **DPP4Plastics** - A Digital Product Passport for Plastics: DPP4PLASTICS examines the technical, legal, and organizational implications of a Digital Product Passport (DPP) for plastics manufacturing and processing companies
- **DaToo** - Data-based tool for material and lubricant selection for decarbonized fuel applications
- **KIRAMET** - AI-based recycling of metal composite waste
- **CE-PASS** - Circular Economy - Digital Product Passport - CE-PASS is an industrial research project that addresses the topic of vehicle design for sustainability and circular economy in the context of highly networked and interoperable ICT systems and platforms
- **UNDERPIN** - Pan-European data space for holistic asset management in critical manufacturing industries
- **MoLiBity** - Development of a functional recycling process for lithium-ion traction batteries from mobility applications
- **DPP4E** - Digital Product Pass for the Electronics Industry
- **ECO-TCO** - Investigates how data from a DPP can be used for circular, eco-design-compliant product configuration
- **TextileCycle** - Seamless Identity Coding of Textile Fibers for the Value Chain and Product Life Cycle
- **> 40 Europäische Projekte**



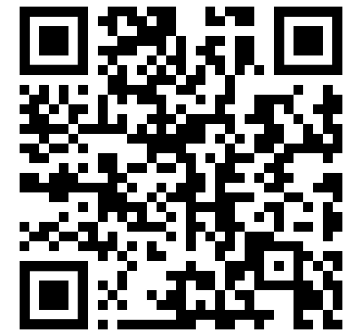
# And now?

## Be prepared

- › Follow the latest developments
- › Create organizational prerequisites
- › Prepare information of your products
- › Involve upstream suppliers and customers
- › Involve software vendors / DPPSP if necessary
- › Use the database for more insights
- › Think beyond current system boundaries



- Standards (JTC24)
- ESPR
- Ecodesign Forum
- CIRPASS-2
- **DPP Check-In**



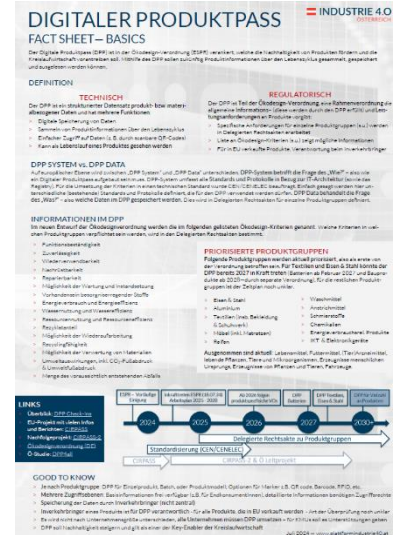
# Useful Infos & Links

## Infos:

- › DPP-Übersichtsseite der Plattform Industrie 4.0
- › Ökodesignverordnung
- › Q&A Ökodesignverordnung
- › WKÖ Webinar Reihe

## Zum Mitmachen:

- › DPP Check-In Anmeldung
- › CIRPASS-2
- › Ecodesign Forum
- › ASI-Komitee zum DPP: Mitarbeit im Technischen Komitee der ASI
- › Delegated Acts: Konsultation der Stakeholder (Textilien, Eisen & Stahl aktiv in EC)



# Thank you for your attention

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2025 **SUMMIT**  
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