

Ecodesign for Sustainable Products Regulation (ESPR) and

Digital Product Passport (DPP)

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A new Regulation on Sustainable Products (ESPR)



- Global extraction of materials tripled since 1970; waste generation set to increase 70% by 2050;
- Over **90% of biodiversity loss** and water stress from resource extraction and processing



Planetary boundaries exceeded

EU has less than 10% of world population, yet its consumption-based impacts are close to or exceed boundaries for climate change, particulate matter, land use and mineral resources (Sala et al, 2020)



New business opportunities

- **Better functioning** of the **Single** Market
- Reduce material use and expenditure
- **Level playing field**

How will ESPR work?

2. By extending the Ecodesign approach



Scope extension

Moving beyond energyrelated products to a wide product scope



New requirements

Plus clarification of existing requirements



Horizontal approach

Requirements in addition to product-specific requirements



Increased focus on product information

e.g. Digital Product Passport; labels

How will ESPR work? 3. By adding new tools



Mandatory **Green Public Procurement**

ESPR will enable mandatory GPP criteria to be set in delegated acts for public contracting authorities



Prevention of destruction of unsold consumer goods

Transparency requirements for those choosing to discard unsold goods, and possibility to ban their destruction for relevant product groups.



Market surveillance and customs controls

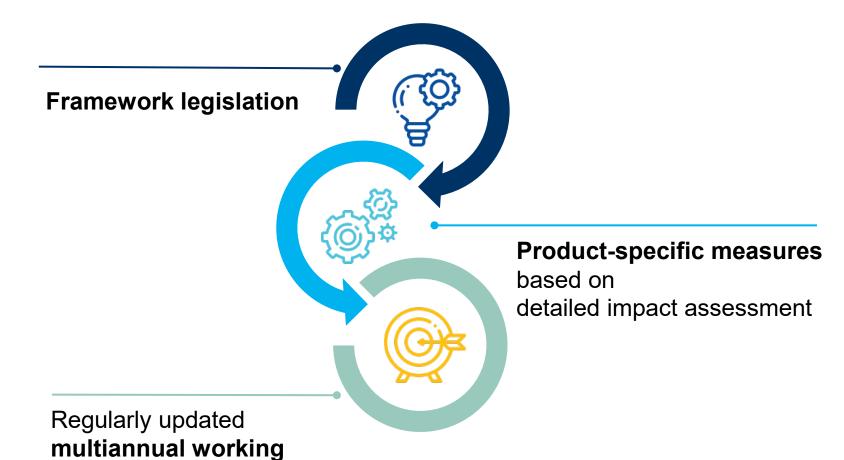
Reinforcing controls on regulated products, including market surveillance implementing plans, possible targets on checks, support to common projects and investments

How will ESPR work?

1. By building on the existing Ecodesign Directive

plans setting out priorities

Key features of Ecodesign
Directive
approach
maintained



The scope

Out of the scope of **ESPR**

Medicinal and veterinary products







Food and feed







Living plants and micro-organisms





In scope of the existing **Ecodesign Directive**

Energy related products



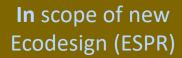














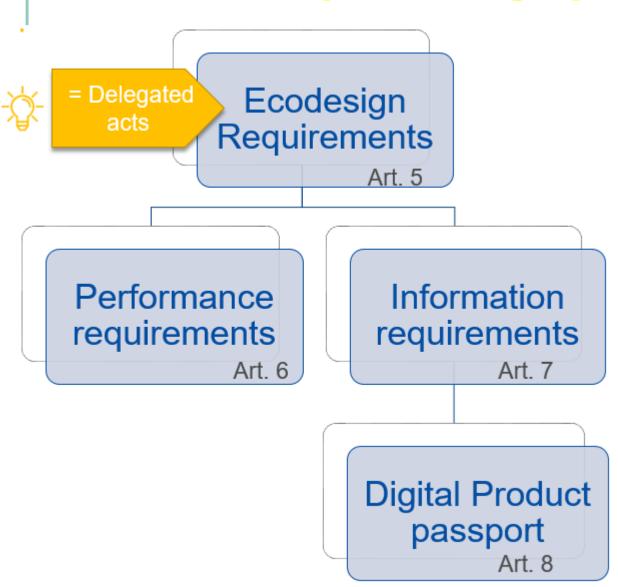






ESPR

Key Ecodesign product aspects



- durability, reliability; reusability; upgradability;
- reparability; possibility of maintenance and refurbishment;
- presence of substances of concern;
- energy use or energy efficiency;
- resource use or resource efficiency;
- recycled content;
- possibility of remanufacturing and recycling;
- possibility of recovery of materials;
- environmental impacts, including carbon and environmental footprint;
- expected generation of waste materials.

DPP – a tool to support three policy objectives

Increase environmental sustainability - Promote circularity - Support legal compliance

- The DPP is a key deliverable to digitalise our economy
- DPP-system will be designed to be potentially used by any legislation that would require the provision of digital information
- The DPP-system shall build on existing best practices at international level, while also allowing the possibility of using new technologies and approaches
- By February 2027 the first DPPs (batteries for e-vehicles) shall be operational. Later in the same year also the first Delegated Acts on ESPR regulated products should become enforceable (including requirements on DPPs)

DPP design





(the "**HOW**". To be developed horizontally for all product groups and legislations)

- All standards and protocols related to the IT architecture (8 areas)
- The DPP registry







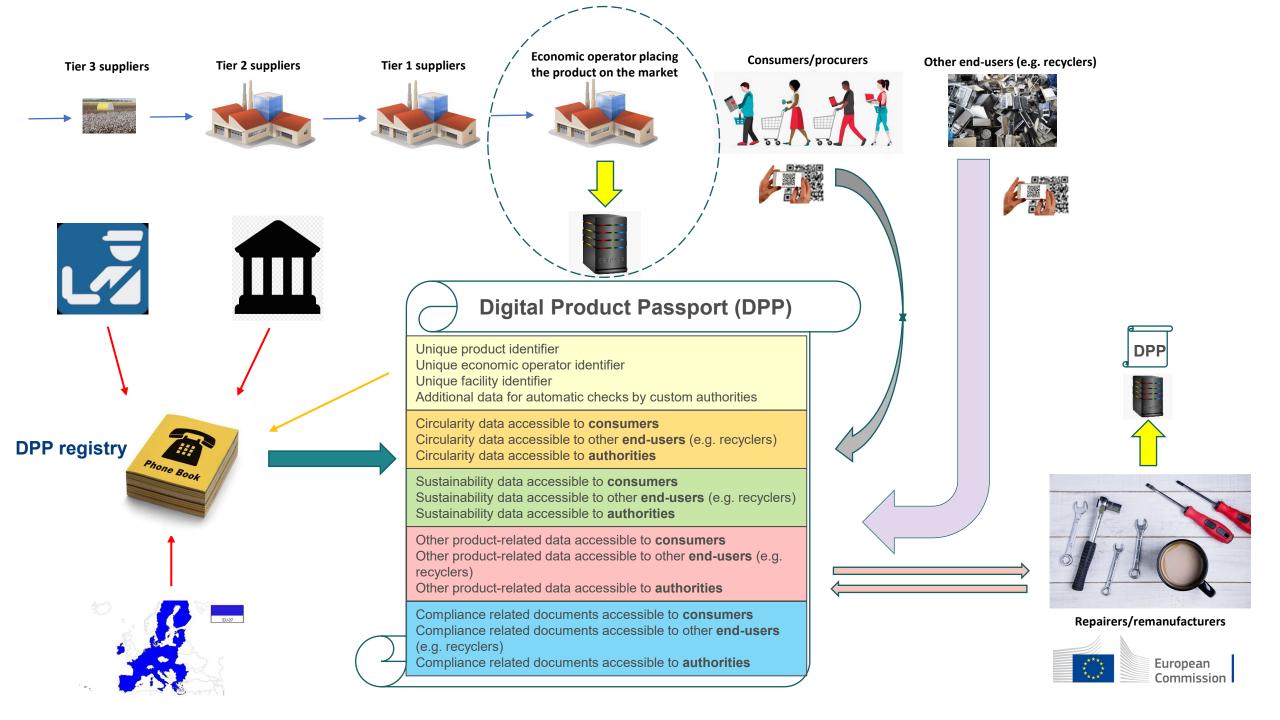
DPP-data

(the "WHAT". To be identified when developing product-group specific secondary legislation)

- Information will be product-group specific and identified through <u>dedicated legislation</u>.
- It may include information/data on one or more of the following areas:
 - Technical performance
 - Environmental sustainability performance
 - Circularity aspects
 - Legal compliance
 - Product-related information

DPP key elements

- DPP is based on a **decentralised** approach for data storage.
- The DPP shall be uniquely linked to a <u>product</u>.
- Access to data will take place through a data carrier.
- Access to DPP-data based on a need-to-know basis (there will be public and restricted data)
- 3 possible levels of granularity: (i) model, (ii) batch, (iii) item
- Existing data already provided digitally should be linked whenever technically possible (e.g., to SCIP database, ICSMS, EPREL, etc)



Standardisation request in support of DPP

- Basis for future harmonised standards
- 8 new areas of harmonised standards to be drafted to support the implementation of the proposed DPP-system. In particular:
 - a) Unique identifiers
 - b) Data carriers and links between physical product and digital representation
 - c) Access rights management, information security, and business confidentiality
 - d) Interoperability (technical, semantic, organisation)
 - e) Data processing, data exchange protocols, and data formats
 - f) Data storage, archiving, and data persistence
 - g) Data authentication, reliability, integrity
 - h) APIs for the DPP lifecycle management and searchability



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