



A new European regulatory framework for the green transformation – Implications for the machinery industry

International Motion and Drives Summit, 19 April 2023, Hannover, Holger Kunze



EU Top Priority – Climate neutrality





European Green Deal

Striving to be the first climate-neutral continent

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The narrative – Create first mover advantages



Global trend: Green transformation

- EU creates framework to become trendsetter in green technologies
- EU companies will benefit as first movers in global markets
- EU standards will become global standards

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Green and digital transformation – An ambitious regulatory framework

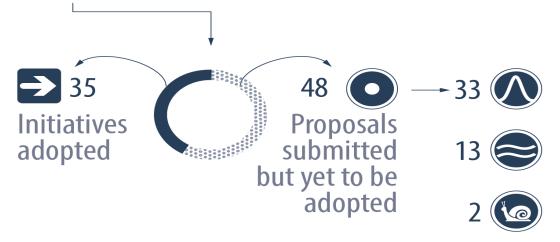


A European Green Deal

Initiatives for this term announced so far: 148



Initiatives submitted to date



EPRS | European Parliamentary Research Service

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European Climate Law - Climate Neutrality 2050

Fit for 55-Package

Increasing the EU's 2030 climate targets & revising the NECPS.

Carbon Border Adjustment Mechanism

Revision of the Energy Taxation Directive

Revision ETS and Effort Sharing

Ecodesign for Sustainable Product Regulation (ESPR) and Digital Product Passport (DPP)

Expansion of the plastics strategy

Textile Strategy

Circular Economy

Sustainable

Finance:

EU Taxonomy

Revision of the packaging and packaging waste Regulation

Review Battery Regulation

Review of the WEEE Directive

Review REACH Regulation

Green Claims Initiative

Cross-cutting issues

European Green Deal

ReCorporate
Sustainability
Reporting
Directive view of
the (CSRD)

Climate

Corporate Sustainability and Due Diligence Directive (CS3D)

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Fit for 55% package: Climate protection becomes concrete



"Fit for 55" package – Changing **EU** energy supply

Goal: Achieve the new 2030 targets

- Revision of the **EU Emissions Trading Scheme**
- Revision of the **Energy Taxati** irective
- Proposed in Pricing adjustment mechan CO2- Pricing
- **Burden Sharing Regulation**

- Revision of the Renewal's Revision of the Renewal's Revision for EU Member States

 Revision of the Renewal's Renewal of the Renewal or greenhouse gases from land use, land use change and forestry
- Legislative proposal against methane emissions in the energy sector
- Revision of the Regulation setting CO2 emission standards for passence nd light commercial vehicles
- Revision of the Intelligent Transport Systems Directive and the Alternative Fuels Infrastructure Directive.

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The green transformation - sustainability and transparency



- EU Sustainable Due Diligence Directive
 - Transparency in the value chain re. human rights, compliance with international environmental and social standards
 - Entire value chain, mandatory for all EU companies with +500 employees
- Corporate Sustainability Reporting Directive (CSRD)
 - Non-financial reporting obligations for all companies ≥ 250 employees
 - Implementing rules are being defined
- Sustainable Finance (EU taxonomy)
 - Link to CSRD
 - Possible problems with banks

Initiative to ban PFAS

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Make sustainable products the norm in the EU Ecodesign Sustainable Product Regulation (ESPR)



- Today: Ecodesign Directive as main instrument for EU circular products
- ➤ ESPR = Extension of the scope of the Ecodesign Directive to ALL products.
- Future: Horizontal Product Directive for the European Single Market
- > First focus: textiles, furniture & ICT
- Mid-long term: also B2B products and services

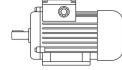






















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Upcoming EU initiatives on sustainable product policy Ecodesign Sustainable Product Regulation (ESPR)



Goal: Address products along their entire life cycle, key aspects:



Improving the durability, reusability, upgradability and repairability of products



Increasing the recycled content in products while ensuring their performance and safety



Reduction of substances of concern



Enabling remanufacturing and refurbishment







Reduction of the CO2 and environmental footprint

Increasing energy and material efficiency

Exploiting the potential of digitizing product information, including a Digital Product Passport (DPP).

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Digital product passport Flagship under the new product regulation



Like:

Decentralized system connected to a
European data room
Based on harmonized standards

Content:

Information/data on the individual product ecodesign requirements

What:

Structured collection of productrelated data with predefined scope and agreed data ownership and access rights, transmitted by a unique identifier









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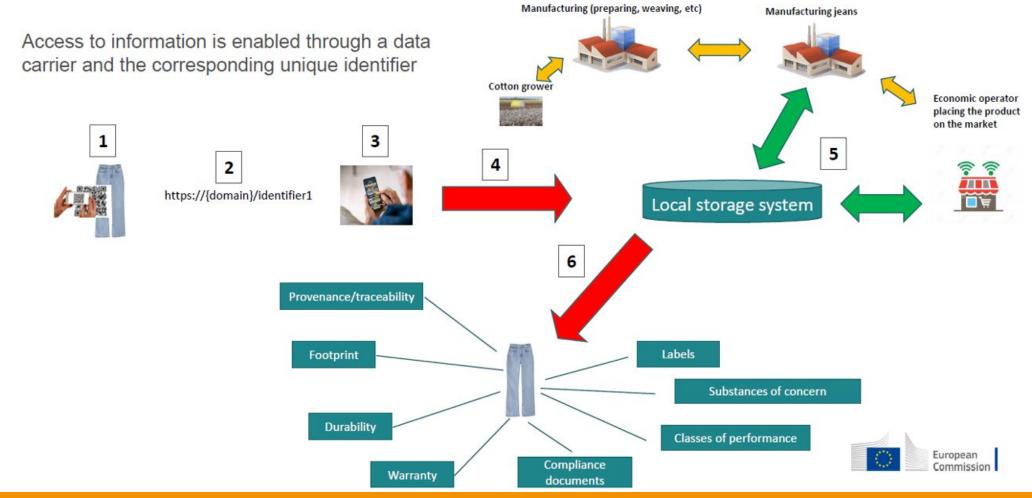
Source: European Commission

Digital product passport

Latest considerations of the EU-COM



Working principles



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ource: European Commiss

Digital product passport

Latest considerations of the EU-COM



The DPP business case



Tracking of raw materials extraction/production, supporting due diligence efforts



Benefit market surveillance authorities and customs authorities, by making available information they SORO Stefano (GROW) o carry out their



Enable **manufacturers** to create products **digital twins**, embedding all the information required either by or by customers in B2B transactions



Make available to **public authorities and policy makers** reliable information. Enable to link **incentives** to **sustainability performance**



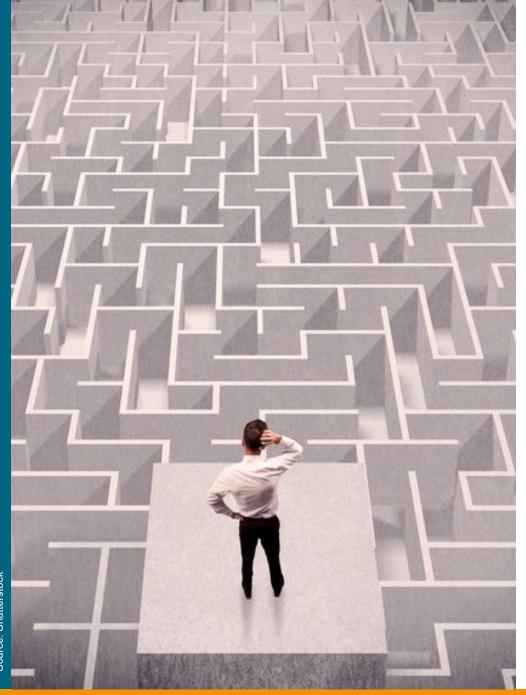
Tracking the life story of a product, enabling services related to its **remanufacturing**, **reparability**, **second-life**, **recyclability**, new business models



Allow citizens to have access to relevant and verified information related to the characteristics of the products they own or are considering to buy/rent (e.g. using apps able to read the identifier

European Commission

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EU initiatives on sustainable product policy - Assessment



Indirectly affecting mechanical engineering, in the **short term**:

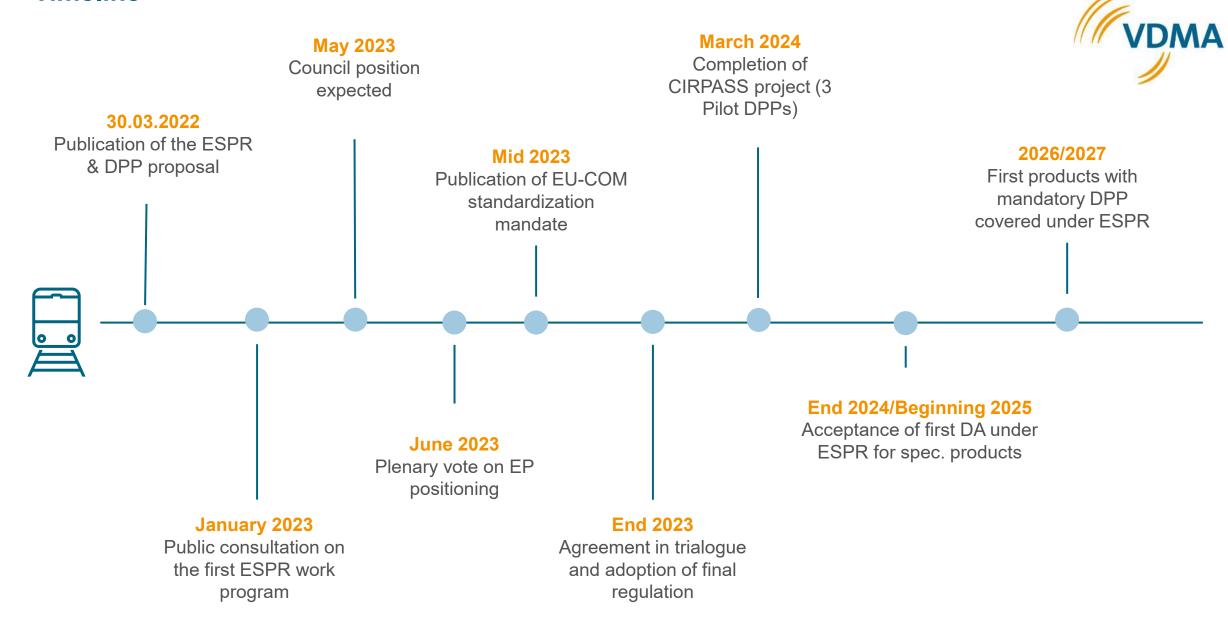
- ESPR:
 - for products that are manufactured, processed and recycled on and with mechanical engineering technologies
 - For products/components used by the mechanical engineering industry and for which ecodesign requirements apply
- DPP -> Transfer of information and its processing in the value chain

Direct impact on mechanical engineering, medium to long term:

- ESPR -> direct circular economy and sustainability requirements for B2B products.
- DPP -> Transparency over the entire life cycle also for B2B products and services so far considered

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Timeline



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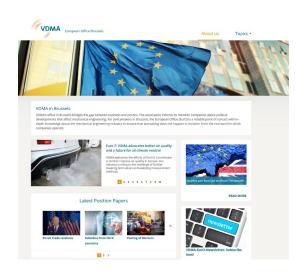
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