DELIVERING RESOURCE-EFFICIENT PRODUCTS

How Ecodesign can drive a circular economy in Europe

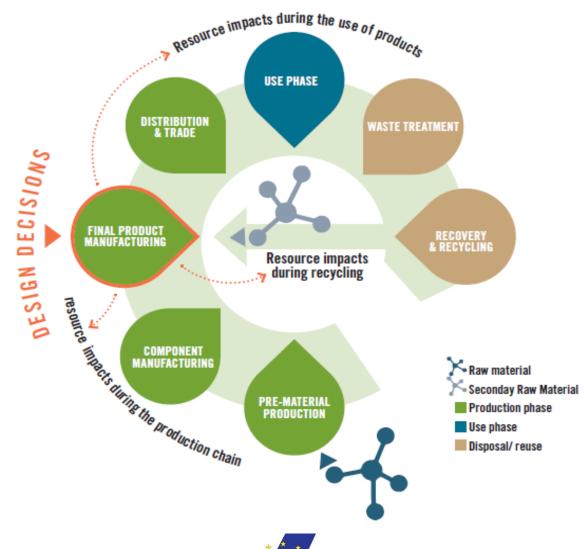


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Which policy approaches should the EU take forward?

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Why design matters



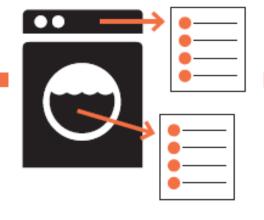
From product properties...

DESIGN DECISIONS

PRODUCT PROPERTIES, E.G.

- · Type of materials used
- · Amount of materials used
- Production process (as far as defined by design)
- Hazardous substances in materials (as far as defined by design)

DESIGN Specifications

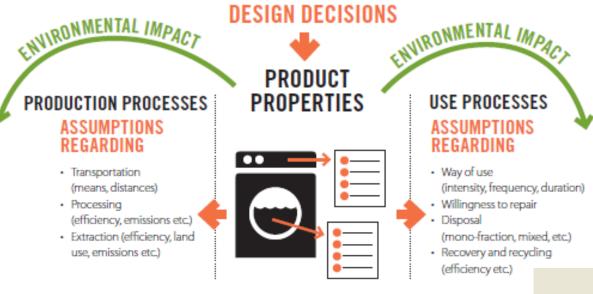


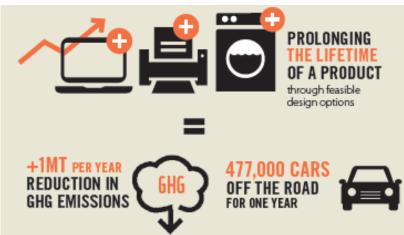
PRODUCT Properties, e.g.

- Energy use (in certain modes of use)
- · Available functionalities
- Use of other consumables (in certain modes of use)
- Distribution and assembly of different materials within the product



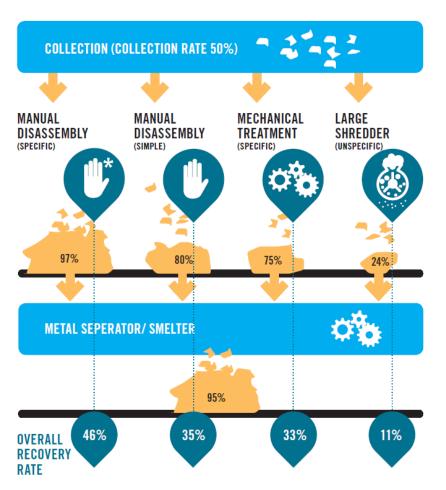
...to environmental impacts







Better alignment of product design with waste treatment processes



Influence of different pre-treatment steps on the overall recovery of gold from circuit boards (Sander 2012)



Approaches to overcome current challenges

HOW TO CUT RESOURCE USE WITH ECODESIGN





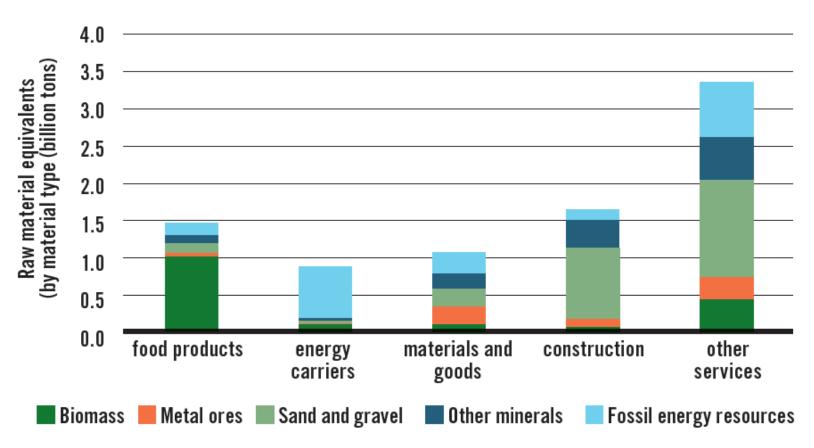


Where future regulations should focus

- Minimum requirements with regard to durability plus mandatory information to be disclosed to consumers, including on warranties
- Availability of repair manuals, diagnosis tools and spare parts
- Design requirements for (non-destructive) dismantling for repair or replacement of components for reuse, upgrades or recycling
- Material markings and end-oflife information for recyclers including on hazardous substances
- Industry initiatives to increase overall recycled (plastics) content across different product categories instead of labelling individual products



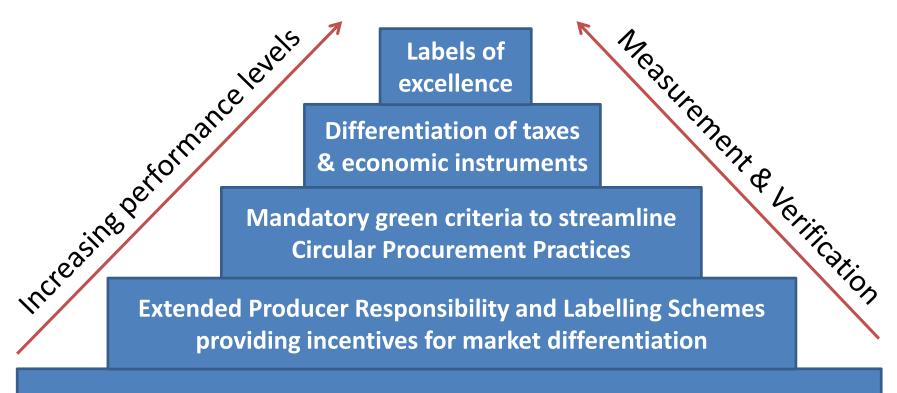
Key sectors to tackle resource consumption



Schoer, Weinzettel, Kovanda, Giegrich, Lauwigi (2012) for EU27



Circular Economy requires a more coherent Product Policy Framework



Legally binding set of minimum requirements on resource efficiency of products & services, including mandatory disclosure of certain information





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