

Ecodesign for Sustainable Products Regulation – Preliminary study on new product priorities

Joint Research Centre

Online information session – March 10th, 2023

Aim of the presentation

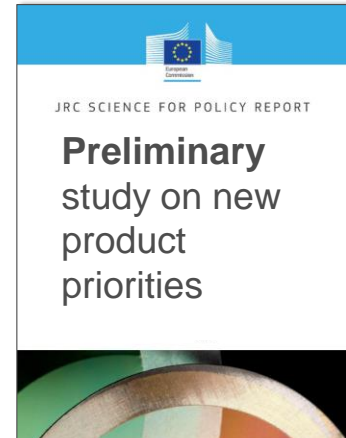


Proposal for a Regulation

Establishing a framework for setting **ecodesign** requirements for **sustainable products**

Article 16(2)

*The Commission shall adopt and regularly update a **working plan**, covering a period of at least 3 years, setting out a **list of product groups** for which it intends to establish **ecodesign requirements** in accordance with this Regulation*

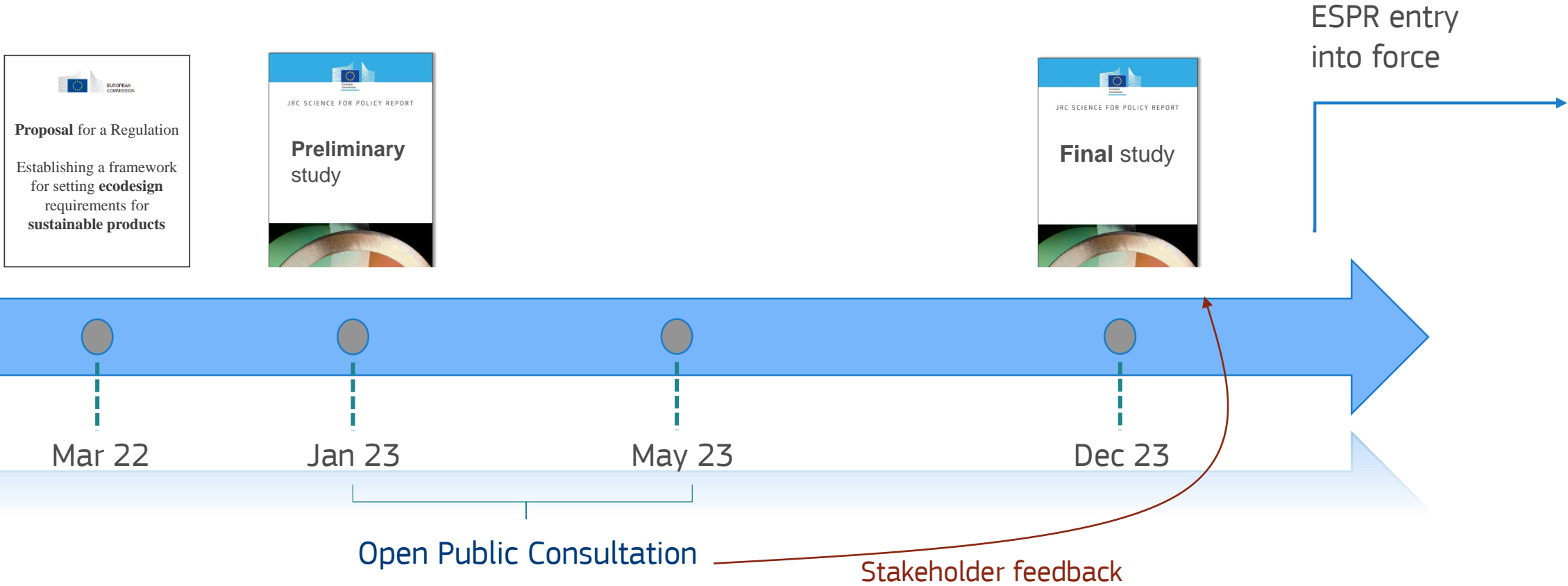


To explain the study on **new product priorities**

- **Scope** of this study
- **Methodology** for prioritisation
- **Preliminary ranking** and **results**

Not the intention to go into technical details or product-specific discussions

Overall timeframe



The scope

See Section 2.2.1
of the study

Out of the scope of
ESPR

Medicinal and
veterinary products



Food and feed



Living plants and
micro-organisms



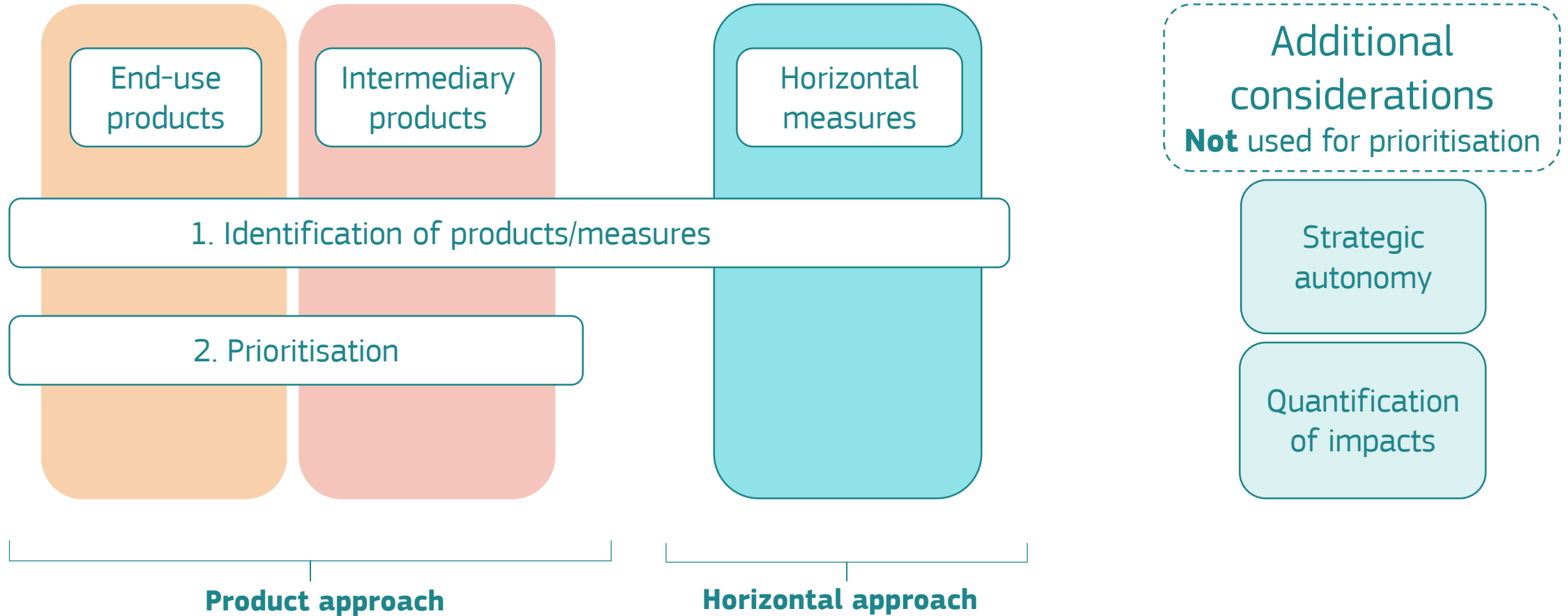
Out of the scope
of this consultation

Energy related
products



In the scope
of this
consultation

The study at a glance

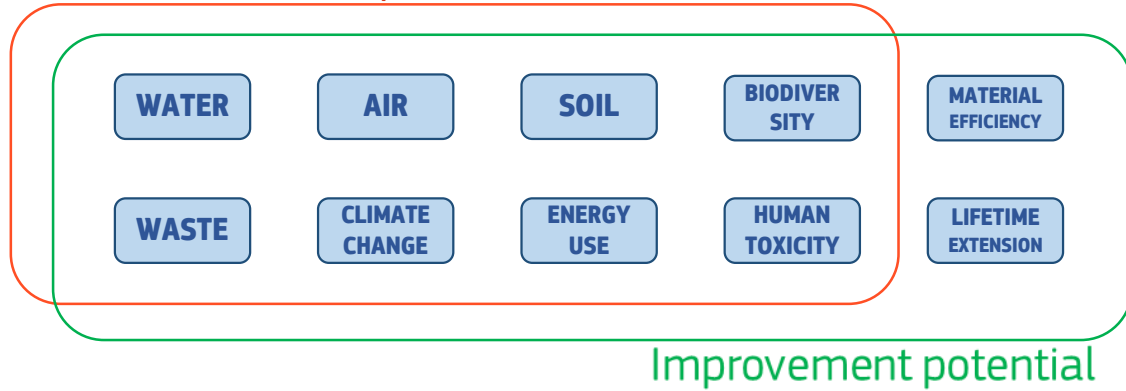


See product fiches in Annex V

Products prioritization - methodology

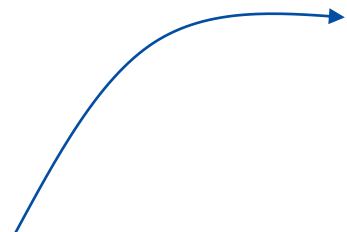
Product fiches

Environmental impacts



Potential ESPR measures













- Design for disassembly to increase material recovery
- Minimum recycled content per kg or unit of product (or component)
- Minimum durability of the product (under normal conditions of use)
- Availability of spare parts for the product
- Use of coding standards for the identification of components and materials
- Recycled content per piece of furniture
- Expected lifetime of the product (under normal conditions of use)
- How to use and maintain the product to avoid its premature substitution



FURNITURE	
Scope:	
Water Effects [1]	Environmental impact: Low Improvement potential: Low
Air Effects [3]	Environmental impact: Medium Improvement potential: Medium
Soil Effects [3]	Environmental impact: Medium Improvement potential: Medium
Biodiversity Effects [3]	Environmental impact: Medium Improvement potential: Medium
Waste Generation & Management [4]	Environmental impact: Medium Improvement potential: High
Climate Change [3]	Environmental impact: Medium Improvement potential: Medium
Life Cycle Energy consumption [3]	Environmental impact: Medium Improvement potential: Medium
Human Toxicity [2]	Environmental impact: Medium Improvement potential: Low
Material efficiency [3]	Improvement potential: Medium
Lifetime extension [5]	Improvement potential: High
Final environmental score [30]	

Products prioritization – preliminary ranking

End-use products

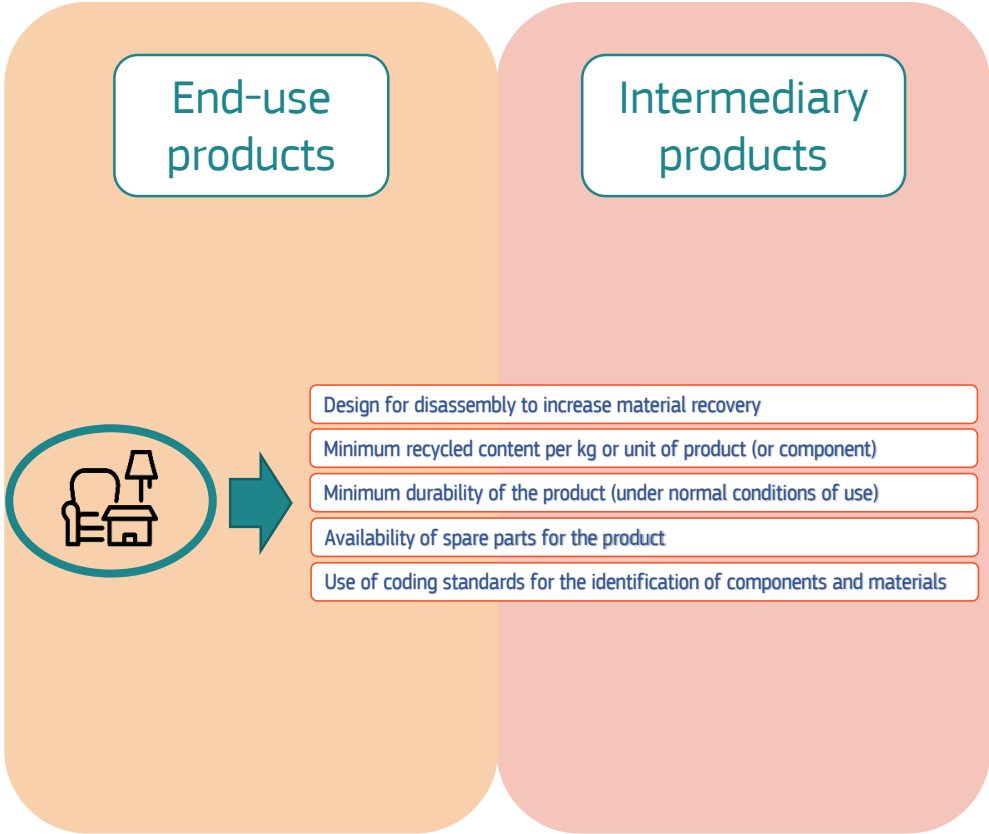
	WATER	AIR	SOIL	BIODIVERSITY	WASTE	CLIMATE CHANGE	ENERGY USE	HUMAN TOXICITY	MATERIAL EFFICIENCY	LIFETIME EXTENSION
Score 43 TEXTILES and FOOTWEAR 	5	2	4	4	5	5	5	3	5	5
Score 30 FURNITURE 	1	3	3	3	4	3	3	2	3	5
Score 30 CERAMICS PRODUCTS 	3	3	3	3	3	4	4	1	3	3
Score 30 TYRES 	3	4	3	3	3	3	3	2	3	3
Score 28 DETERGENTS 	4	2	1	4	3	3	3	2	3	3
Score 26 BED MATTRESSES 	1	3	1	2	5	3	3	2	3	3
Score 24 LUBRICANTS 	2	2	2	2	2	3	3	2	3	3
Score 24 PAINTS 	3	3	2	3	3	2	2	2	3	1
Score 23 COSMETICS 	4	2	1	4	3	2	1	2	3	1
Score 22 TOYS 	1	1	1	1	3	2	2	3	3	5
Score 21 FISHING GEARS 	4	1	1	4	3	2	1	1	3	1
Score 18 ABSORBENT HYGIENE PRODUCTS 	2	1	2	2	4	2	2	1	1	1

Intermediary products

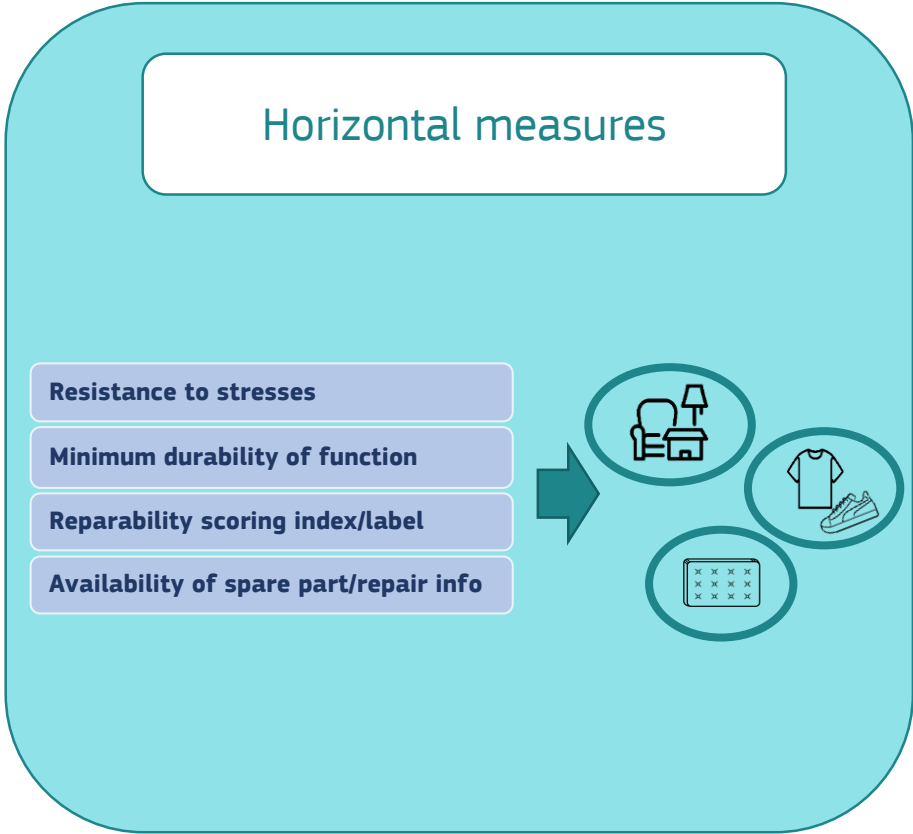
	WATER	AIR	SOIL	BIODIVERSITY	WASTE	CLIMATE CHANGE	ENERGY USE	HUMAN TOXICITY
Score 31 IRON & STEEL	5	5	2	2	4	5	5	3
Score 27 NON-FERROUS METAL PRODUCTS	3	2	3	2	5	4	5	3
Score 26 ALUMINIUM	1	4	4	3	4	4	4	2
Score 25 CHEMICALS	3	3	3	3	3	4	4	2
Score 23 PLASTICS	3	3	2	2	3	4	4	2
Score 22 PULP & PAPER	3	2	3	3	2	4	4	1
Score 19 GLASS	3	2	2	3	1	3	4	1

Product vs horizontal approach

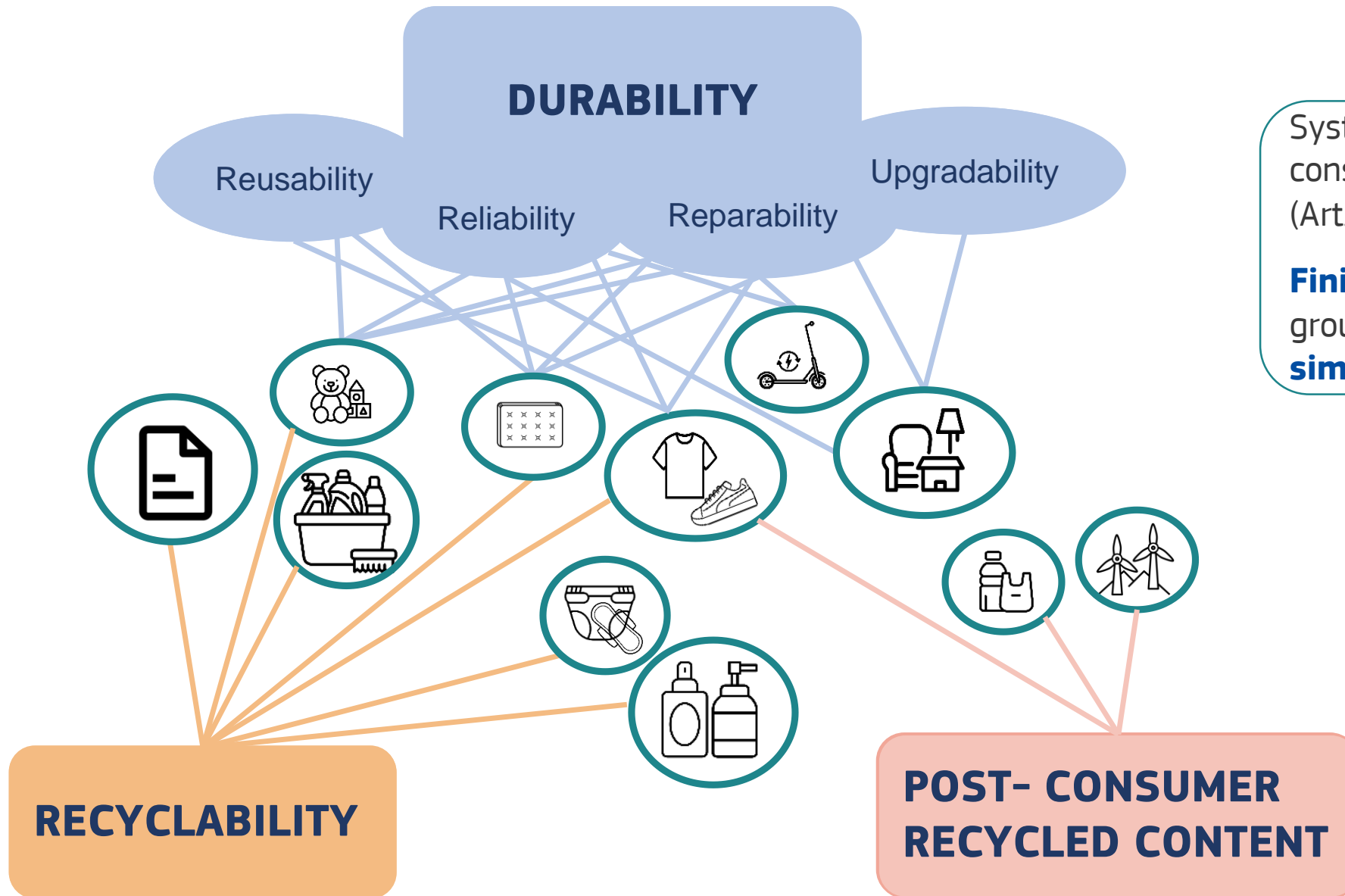
Product approach



Horizontal approach



Horizontal measures – preliminary selection



Systematic and harmonised consideration of **aspects** (Art. 5)

Finite scope of product groups with **technical similarities**

Strategic autonomy – preliminary methodology & ranking

□ A simplified “**Bill of Materials**” (max. 4 elements) for the 19 product groups under investigation

□ **3 features** for the assessment:



Presence of **Critical Raw Materials (CRMs)** according to EC's 2020 list

→ **Supply risk & economic importance**



Fossil hydrocarbons as raw materials (non-energy use)

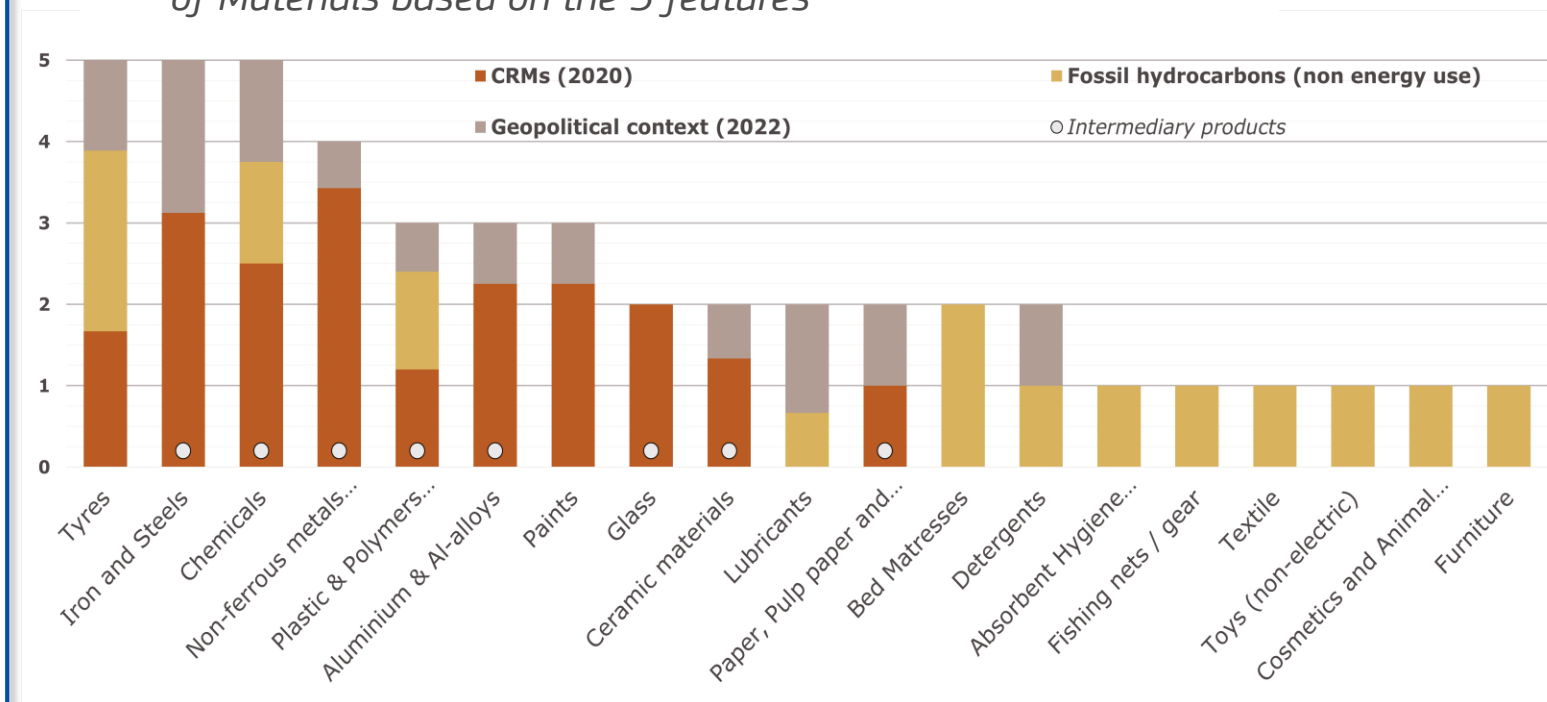
→ **Import reliance, price volatility**



Geopolitical context Supply from Russia/Ukraine

→ **Potential sanctions and supply shortages**

□ **Ranking:** Definition of a score for each material of the Bill of Materials based on the 3 features

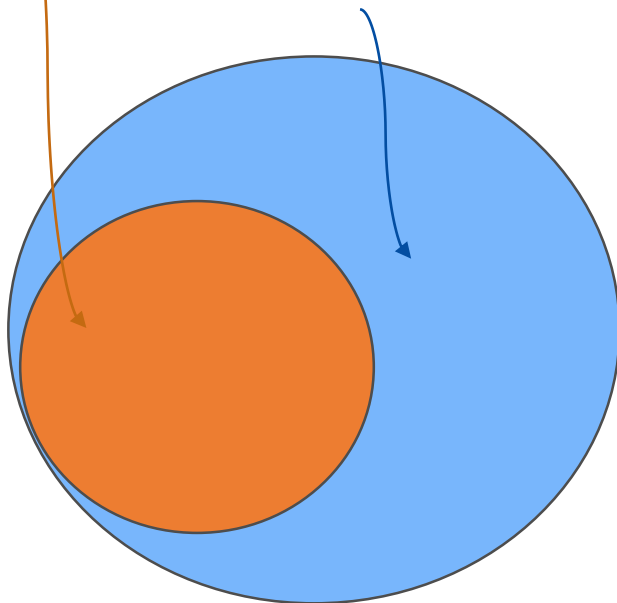


How the ESPR WP may affect the current environmental impacts of EU consumption?



COVERAGE

How much are **prioritized products** contributing to the current **environmental impacts of EU consumption**?

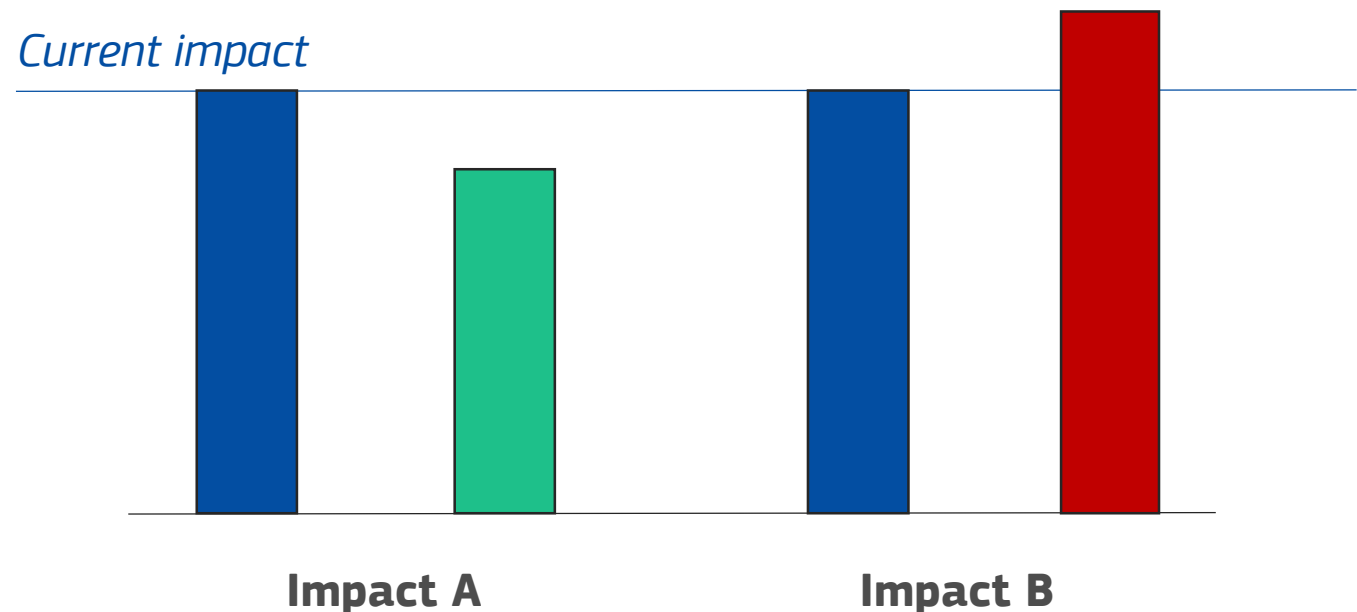


POTENTIAL CHANGE

To what extent can ESPR measures change the **current environmental impacts of EU consumption**?

Is there a risk for shifting impacts to other environmental aspects?

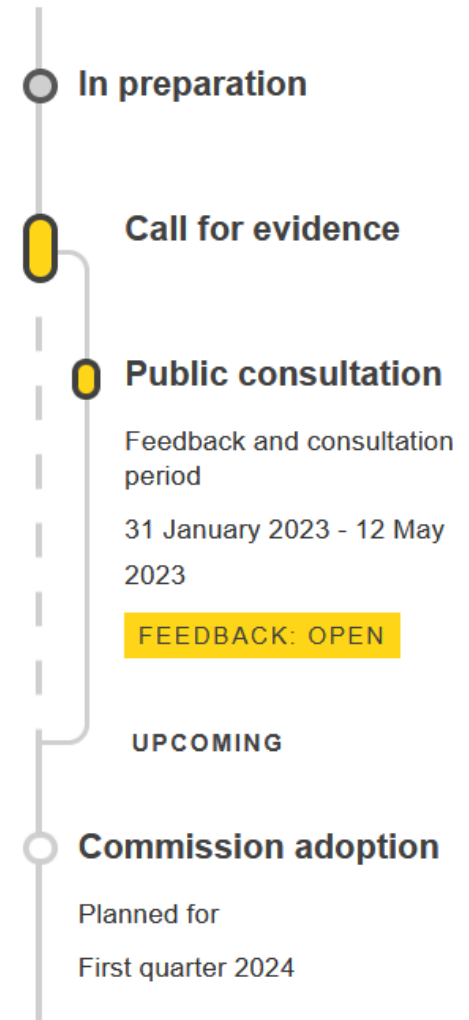
Current impact



Final considerations

- The link to the study can be found in the Call for evidence
- All feedback to be submitted in the [Have your Say](#) portal
- Open Public Consultation closing date: **May 12th**

Have your say > Published initiatives



Thank you

© European Union 2023



Unless otherwise noted the reuse of this presentation is authorised under the [CC BY 4.0](https://creativecommons.org/licenses/by/4.0/) license. For any use or reproduction of elements that are not owned by the EU, permission may need to be sought directly from the respective right holders.

Slide 7-9: “Food” by Eucalyp, “Food” by Atif Arshad, “raw material” by WiStudio, “Medicine” by Iconstock, “Medicine” by Monika, “Medicine” by Firza Alamsyah, “microorganism” by SAM Designs, “Plant” by Andi Nur Abdillah, “t-shirt” by Royyan Wijaya, “Shoe” by Visual Glow, “furniture” by Umer Younas, “Toilet” by Lluisa Iborra, “tire” by Kick, “detergents” by nuengrutai, “Mattress” by Démarque Toi, “motor oil” by Adrien Coquet, “paint bucket” by Cono Studio Milano, “Cosmetics” by Made by Made, “horse toy” by Rank Sol, “nano” by Eucalyp, “office desk” by Jasmine Christine, “reusable pad” by Llisole, “clean” by One Pleasure, “electric scooter” by Izwar Muis, “books” by Hawraa Alsalman, “candles” by Made by Made, “Electric buses” by Bence Bezerey, “chemicals” by Milinda Courey, “tableware” by Florent B; “Laptop” by Zahroe, “mobile phone” by ramintos, “Electric Kettle” by lastspark, Oven by Mochamad Wildan; all sourced from [Noun Project](https://nounproject.com/) (CCBY3.0)

Slide 22-23: “t-shirt” by Royyan Wijaya, “Shoe” by Visual Glow, “furniture” by Umer Younas, “Toilet” by Lluisa Iborra, “tire” by Kick, “detergents” by nuengrutai, “Mattress” by Démarque Toi, “motor oil” by Adrien Coquet, “paint bucket” by Cono Studio Milano, “Cosmetics” by Made by Made, “horse toy” by Rank Sol, “baby diaper” by Loonie Armstrong, “Sanitary Pad” by Alexander Panasovsky; all from [Noun Project](https://nounproject.com/) CC BY 3.0. “Fishin gears” from Fish Catching Methods of the World, III ed. p.235 (Copyright: FAO)

Slide 27: “t-shirt” by Royyan Wijaya, “Shoe” by Visual Glow, “furniture” by Umer Younas, “detergents” by nuengrutai, “Mattress” by Démarque Toi, “horse toy” by Rank Sol, “baby diaper” by Loonie Armstrong, “Sanitary Pad” by Alexander Panasovsky, “Cosmetics” by Made by Made, “electric scooter” by Izwar Muis, “Paper” by Adiyogi, Packaging by Bonnie Nguyen, ; all from [Noun Project](https://nounproject.com/) CC BY 3.0