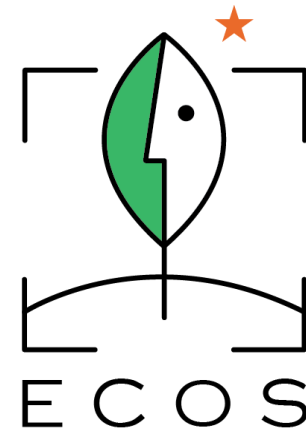
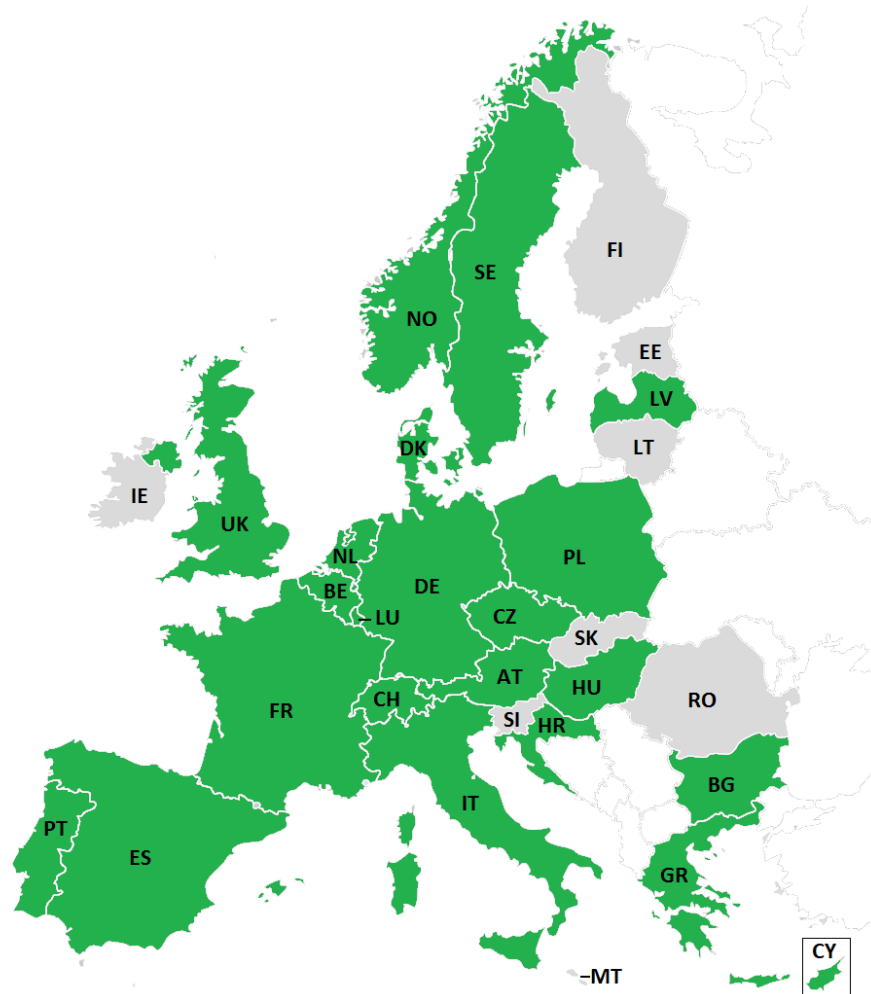


Products for a circular economy



Christoforos Spiliotopoulos
Policy Director, ECOS

ECOS - European Environmental Citizens' Organisation for Standardisation



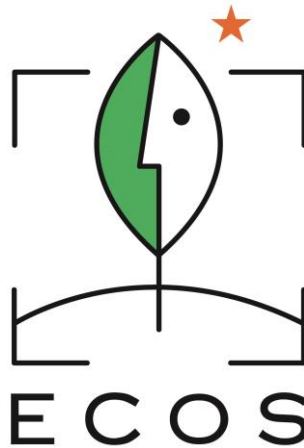
ECOS - European Environmental Citizens' Organisation for Standardisation



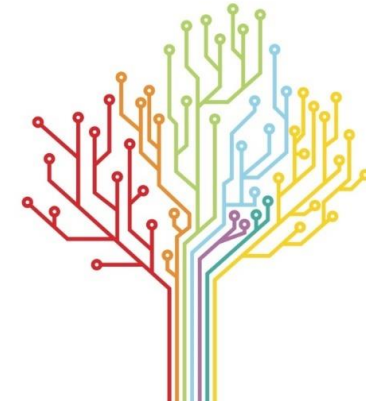
Network of members and partners



Communication



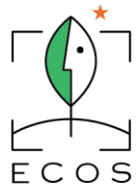
Network of experts



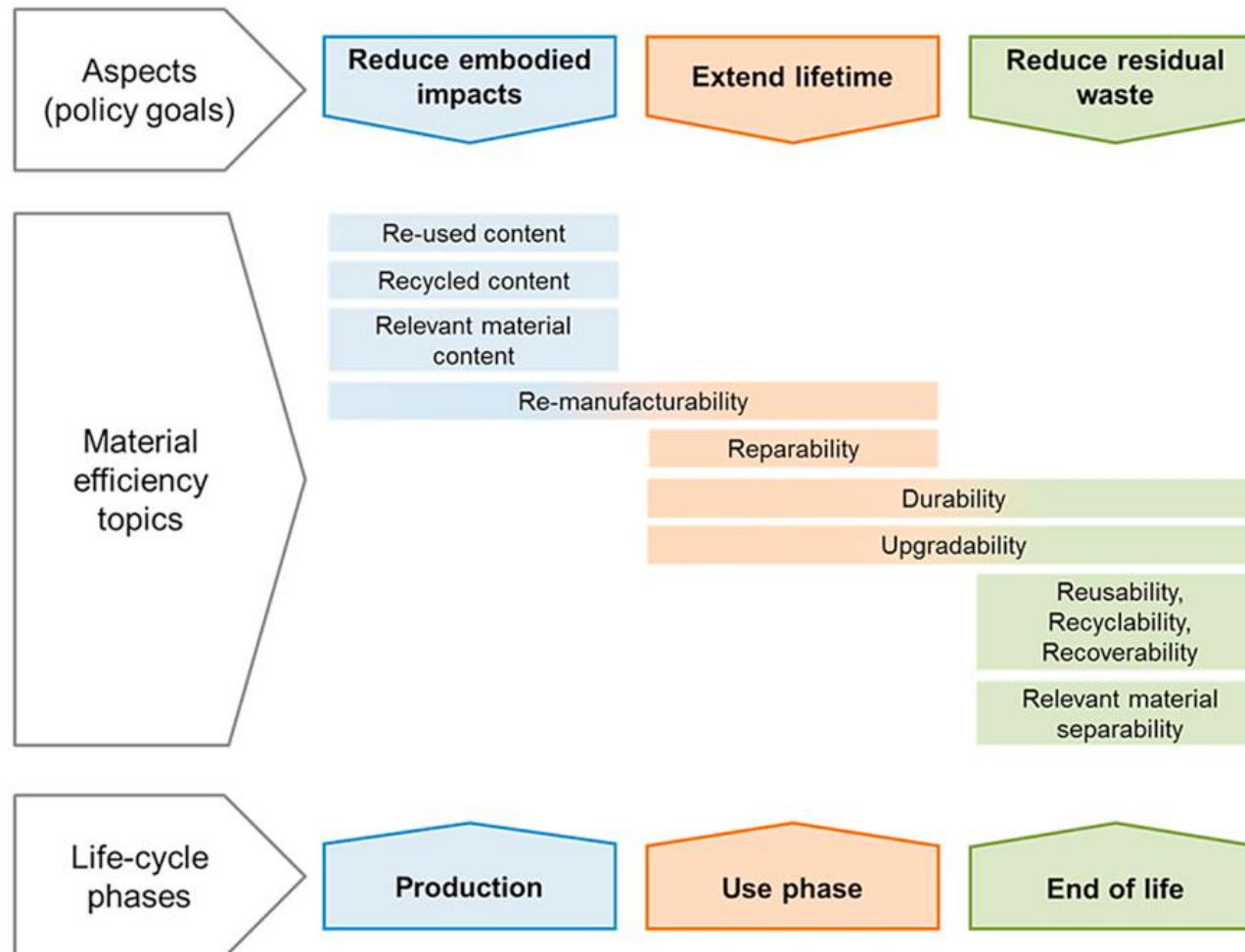
Synergies Regulation-Standardisation

Products in a circular economy

- Make products more durable by introducing **minimum durability requirements on key components**
- Ensure that essential parts of products are **easily replaceable, repairable and upgradable**
- Make products easier to recycling by **not combining different materials that are not compatible**
- **Ban the use of hazardous chemicals** in order to protect health and safety
- Ensure the reduction of **plastic use**



Material Efficiency



Our strategies

EU Policy

Ambitious ecodesign requirements based on circular principles

Standardisation

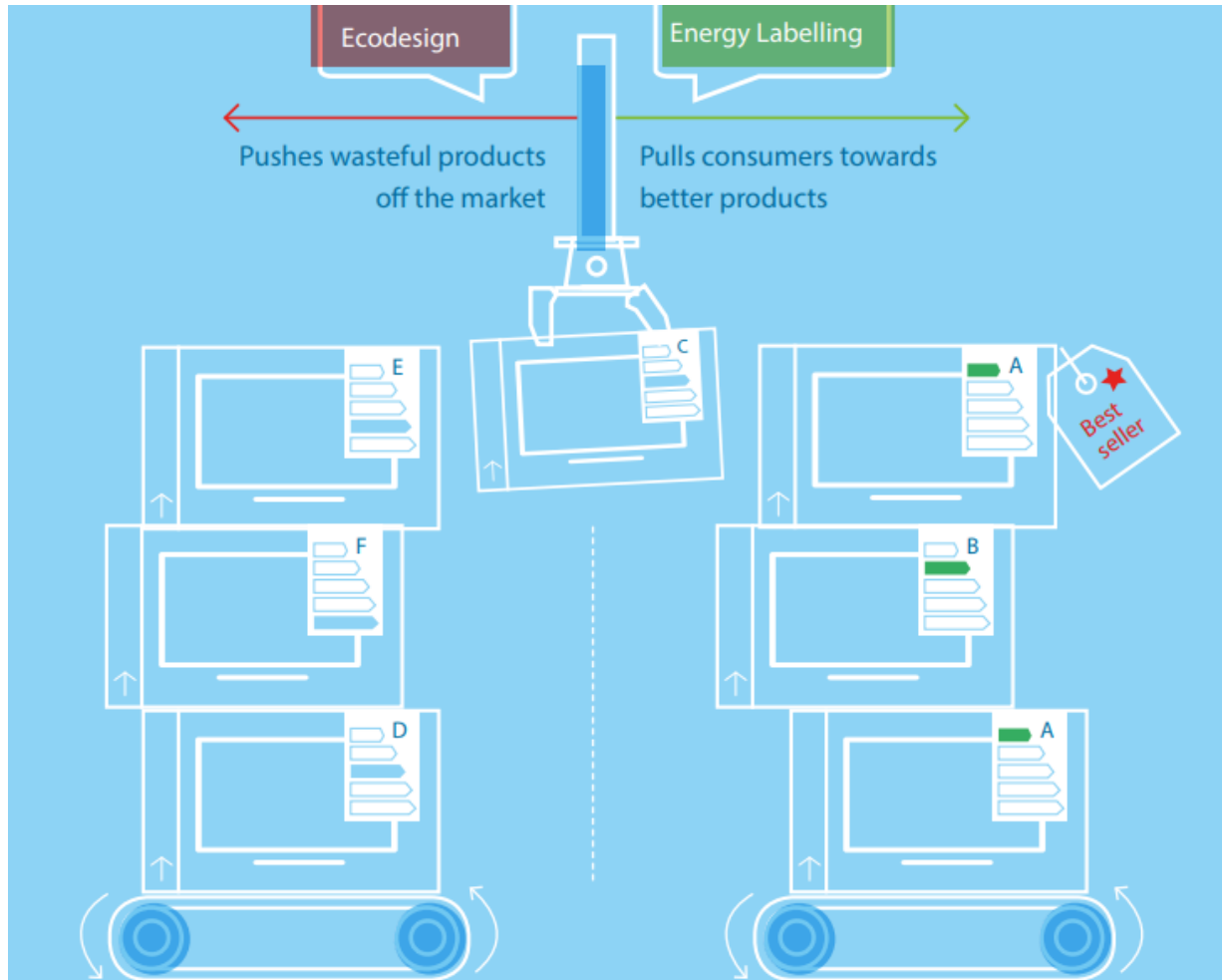
Assessment and test methods for resource-efficiency, which are appropriate and reflect real-life

Compliance

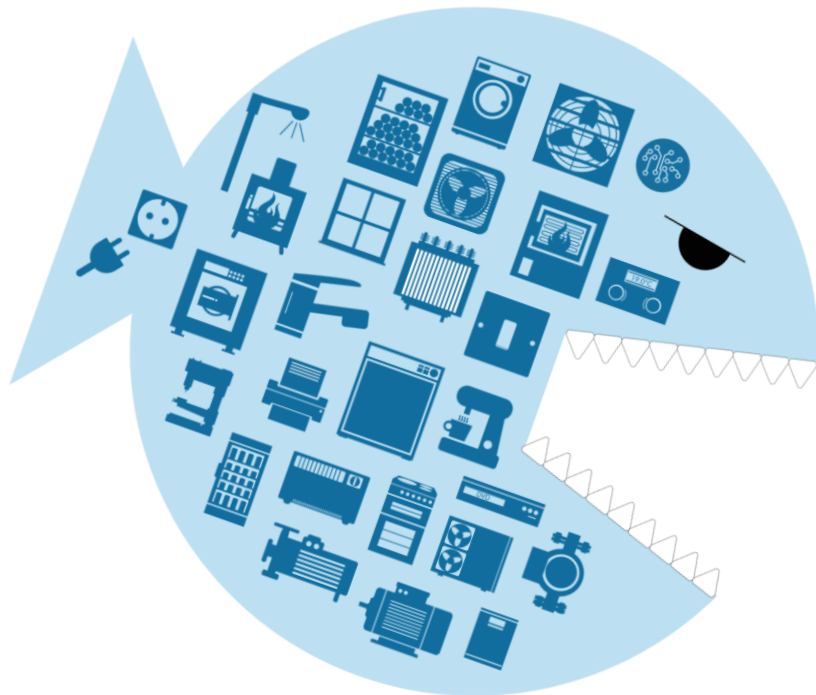
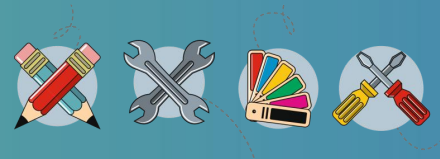
Proper enforcement and discouragement of circumvention



Ecodesign and Energy Labelling



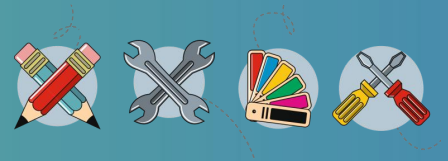
Energy savings so far



-175 million
tons oil equivalent

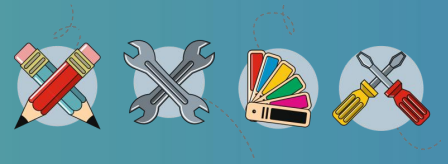
~ 9% of EU total
energy consumption

Consumers want repair...



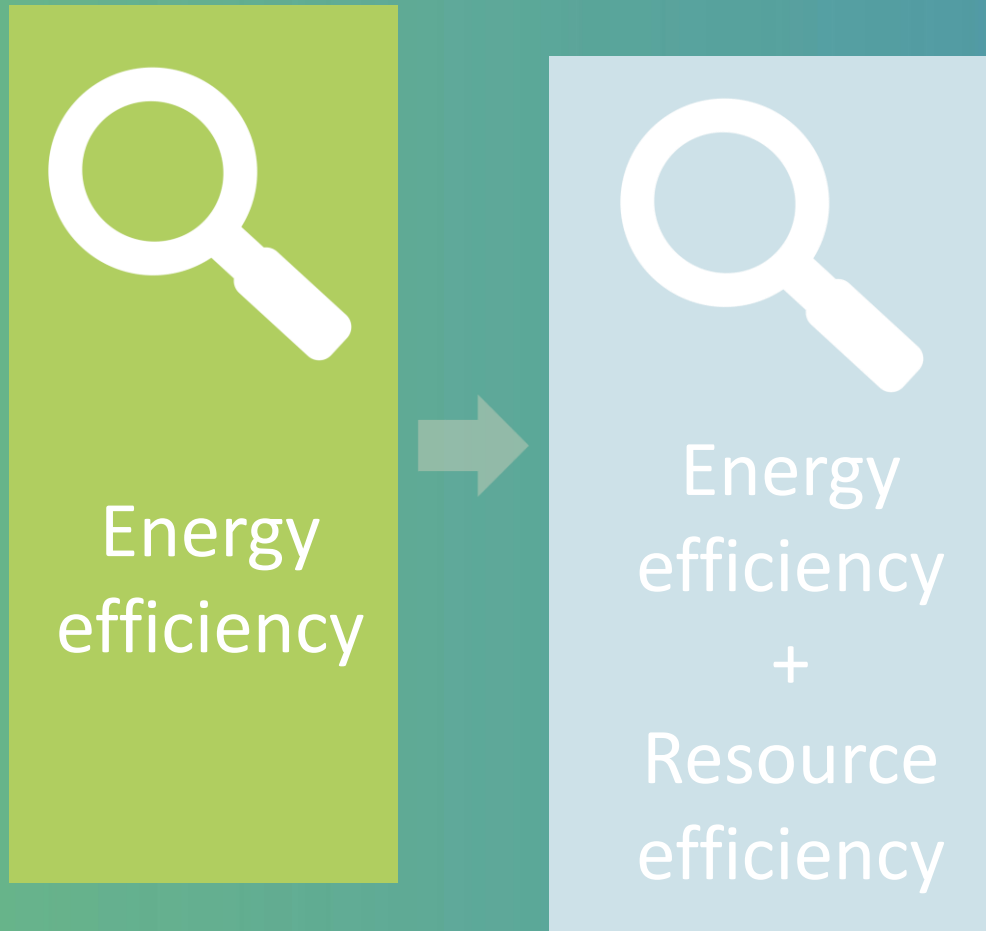
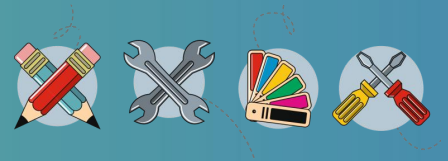
- Almost all Europeans (96%) think it is important that the EU uses its resources more efficiently.
- 77% of EU consumers would rather **repair their goods** than buy new ones.
- 47% EU citizens decided not to have a faulty product repaired in the past 12 months because the **repair costs** were too high.

...and they want it on the label



- Consumers paid strong attention to **durability and reparability** information at the point of purchase
- Almost 3x more likely to choose **highest durability** products
- More than 2x more likely to choose **highest reparability** products
- Lowest durability/reparability products became, respectively, widely unpopular

New types of requirements

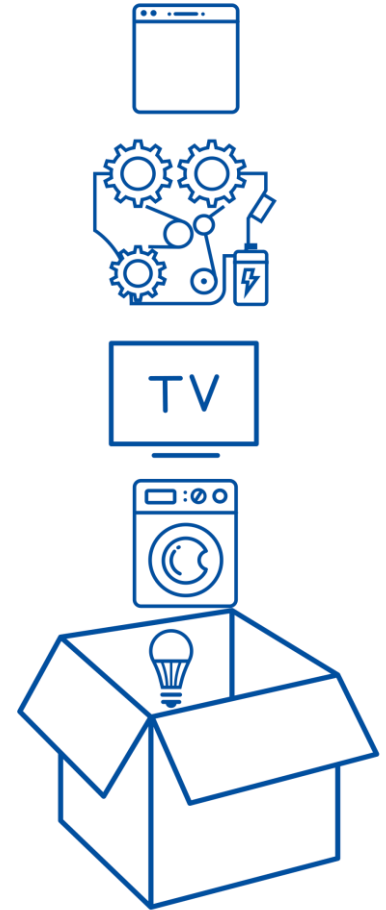


Package: which products?



- Fridges
- Washing machines
- Dishwashers
- Lighting
- TVs & Displays
- Servers
- Commercial fridges
- Electric motors
- Industrial fans
- External power supplies
- Welding equipment
- Power transformers
- Standby
- Compressors

**= 14 Ecodesign measures
+ 6 Energy Labels**

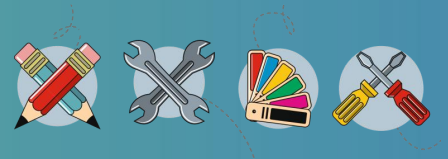


- [illegible]

The challenge...



The content of EN 45554



Design-related criteria

- Disassembly depth
- Fasteners and connectors(by type)
- Tools
- Working environment
- Skill level

Service-related criteria

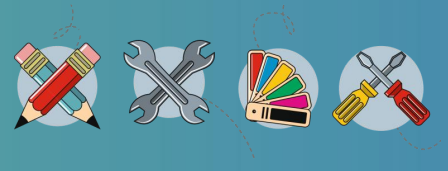
- Diagnostic support and interface
- Availability of spare parts (target group, duration, interface)
- Types and availability of information (target group, comprehensiveness)
- Return models
- Data management
- Password and factory reset for reuse

Scoring a criterion – Tools example



Category	Class
Feasible with no tool, tool supplied or basic tools*	A
Feasible with product group specific tools	B
Feasible with other commercially available tools	C
Feasible with proprietary tools	D
Not feasible with any existing tool	E

Overall Score

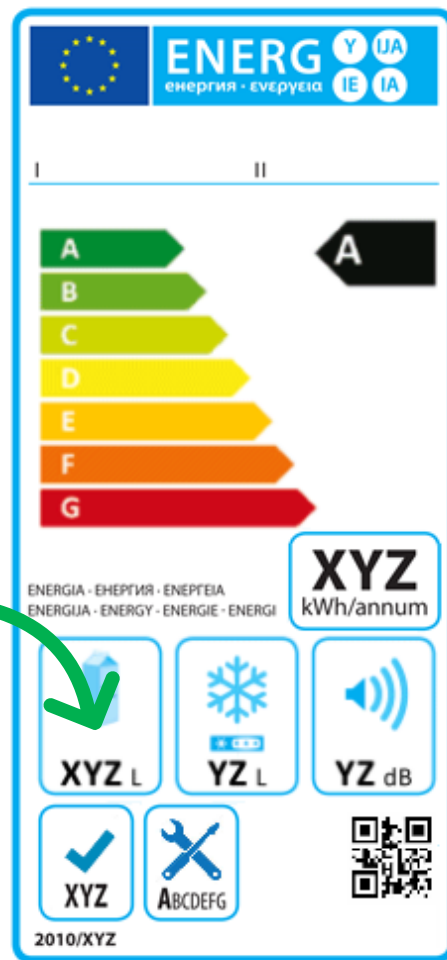


$$\text{Score} = \sum \left(W_{pp} \times \sum \left(W_{i, pp} \times S_{i, pp} \right) \right) + \sum W_j \times S_j$$

where

- W_{pp} is the overall weight of the priority part pp
- W_i is the weighting factor of criterion i assessed at priority part level
- S_i is the score of criterion i assessed at priority part level
- W_j is the weighting factor of criterion j assessed at product level
- S_j is the score of criterion j assessed at product level

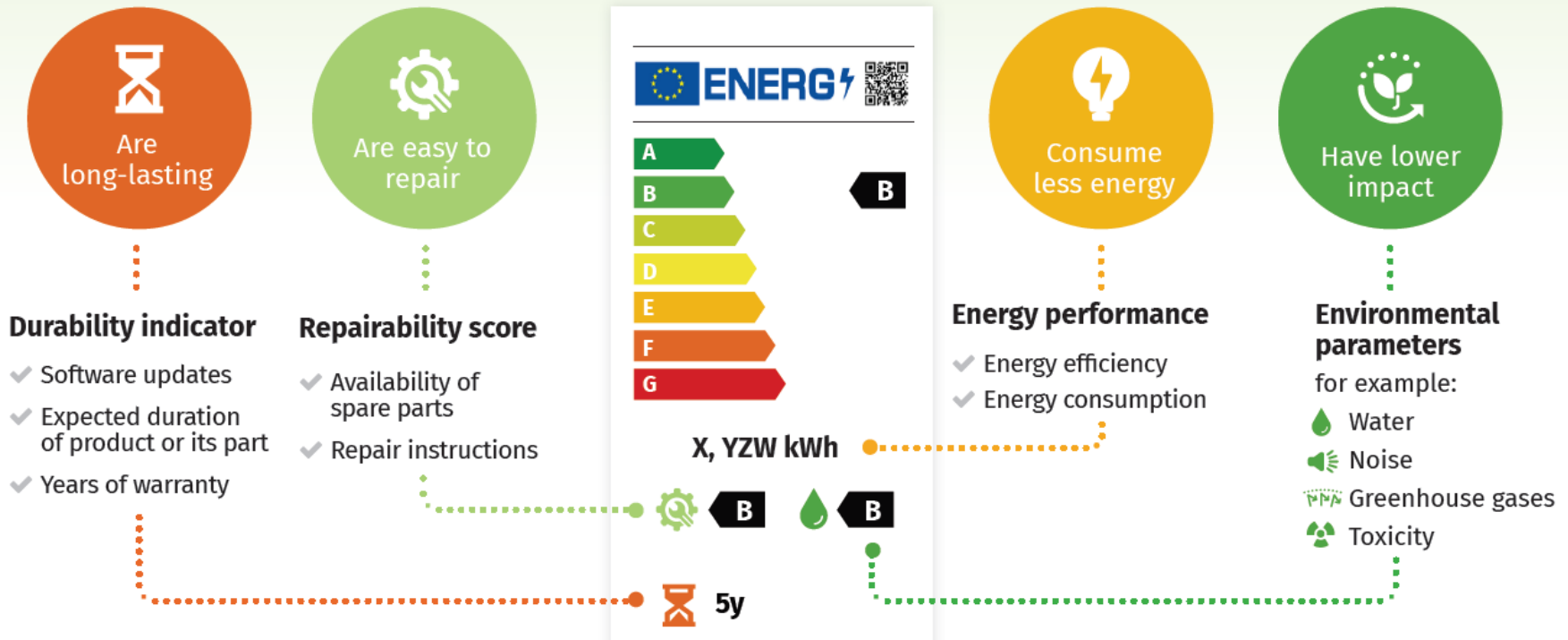
The Label...



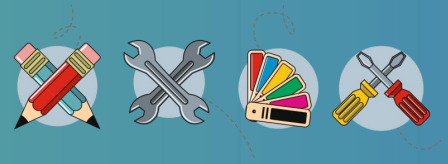
Expanding on aspect scope



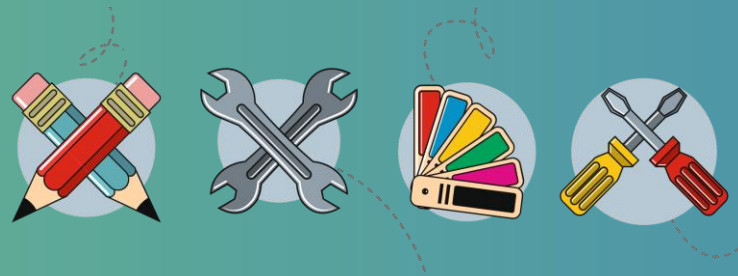
THE ENERGY LABEL SHOULD GO **CIRCULAR** AND
HELP EUROPEANS PICK **PRODUCTS** WHICH...



Expanding on aspect scope



Thank you!



Christoforos Spiliotopoulos

Policy Director, ECOS

chris.spiliotopoulos@ecostandard.org