European Commission

Circular Economy

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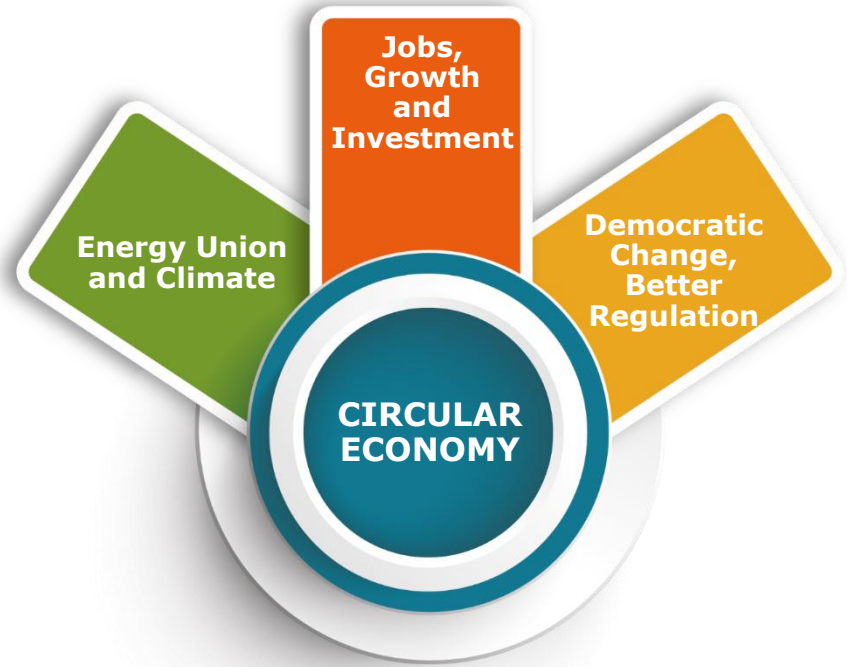
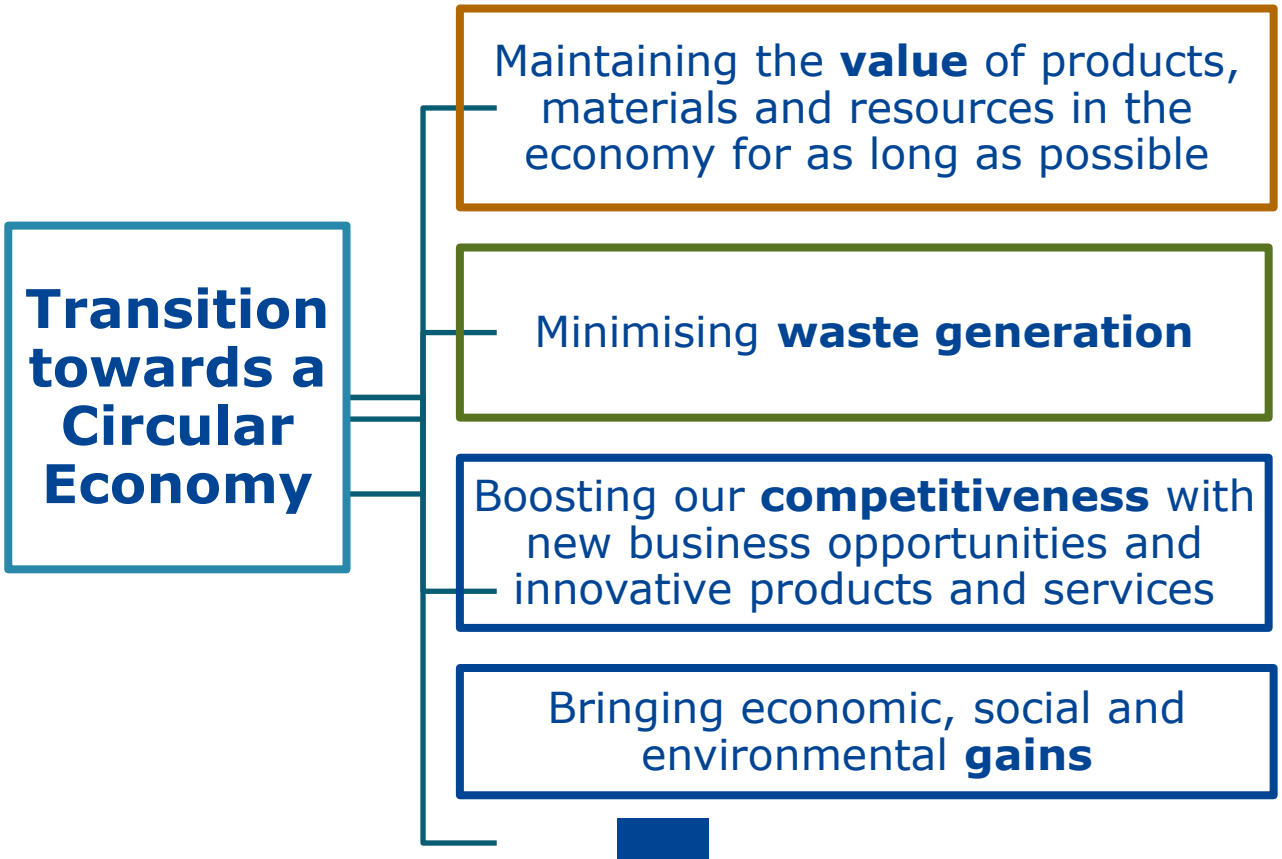
European Commission
DG Environment

Circular Economy: a priority

Circular Economy: an EU priority

Protecting
the environment
and boosting
competitiveness
go hand-in-hand:
both are about
building a sustainable
future.



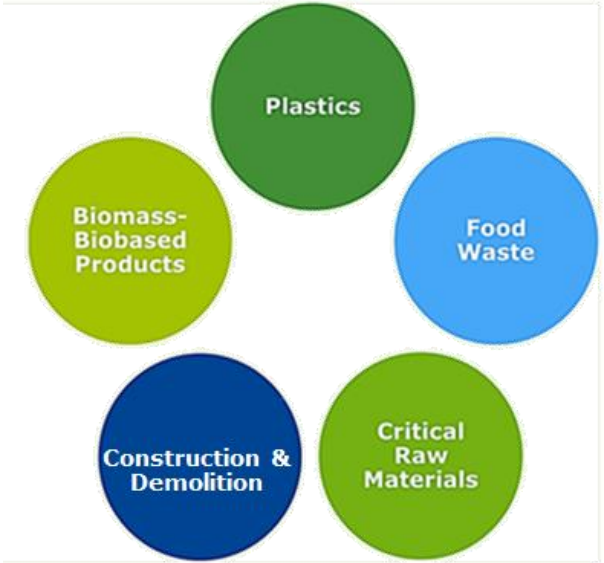

Transition towards a Circular Economy
Maintaining the value of products, materials and resources in the economy for as long as possible
Minimising waste generation
Boosting our competitiveness with new business opportunities and innovative products and services
Bringing economic, social and environmental gains


1 NO POVERTY
2 ZERO HUNGER
3 GOOD HEALTH AND WELL-BEING
4 QUALITY EDUCATION
5 GENDER EQUALITY
6 CLEAN WATER AND SANITATION
7 AFFORDABLE AND CLEAN ENERGY
8 DECENT WORK AND ECONOMIC GROWTH
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE
10 REDUCED INEQUALITIES
11 SUSTAINABLE CITIES AND COMMUNITIES
THE GLOBAL GOALS
For Sustainable Development
12 RESPONSIBLE CONSUMPTION AND PRODUCTION
13 CLIMATE ACTION
14 LIFE BELOW WATER
15 LIFE ON LAND
16 PEACE AND JUSTICE STRONG INSTITUTIONS
17 PARTNERSHIPS FOR THE GOALS

Circular Economy Action Plan (12/2015)

4 Key areas of action

5 Priority sectors



Circular Economy Package

26 January 2017

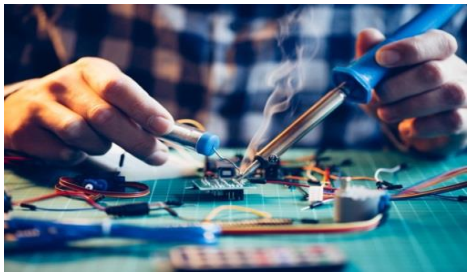
Report to EP and Council

Communication Waste to Energy

Proposal for amending RoHS

Sustainable Consumption and Production

Ecodesign Working Plan 2016-2019



BREFs for industrial sectors

Helping consumers and public authorities choose sustainable products and services

Revised legislative proposals on waste

65% target recycling **municipal waste** by 2030

10% target to reduce **landfill** of municipal waste by 2030

75% target recycling **packaging waste** by 2030

- **One calculation method**
- **Prevention**
- **Simplification**

Secondary Raw Materials

Turning waste into a resource

Proposal for a revised fertilisers regulation

Standards for SRMs

Promotion of water reuse-guidance

Inclusion of best practices in BREFs

Interface chemicals-waste-products legislations

Investments and funding

EFSI 2.0 expected to mobilise **EUR 500 billion**

Circular Economy Finance Support Platform: Awareness of circular economy business logic & uptake of circular economy projects by investors

Horizon 2020: Industry 2020 in the circular economy

Cohesion policy: Innovation through smart specialisation

LIFE: Over EUR 100 million

Priority actions in 2017

- Plastics strategy
- Interface between chemicals, waste and product legislations
- Legislative proposal on minimum requirements for the re-use of treated waste water
- Indicators for sustainable buildings
- CE monitoring framework
- Financing platform
- Stakeholder platform on circular economy

Interface Product-Chemical and Waste Legislations

Increase **safety**, facilitate **recycling** and improve the **trust** in secondary raw materials

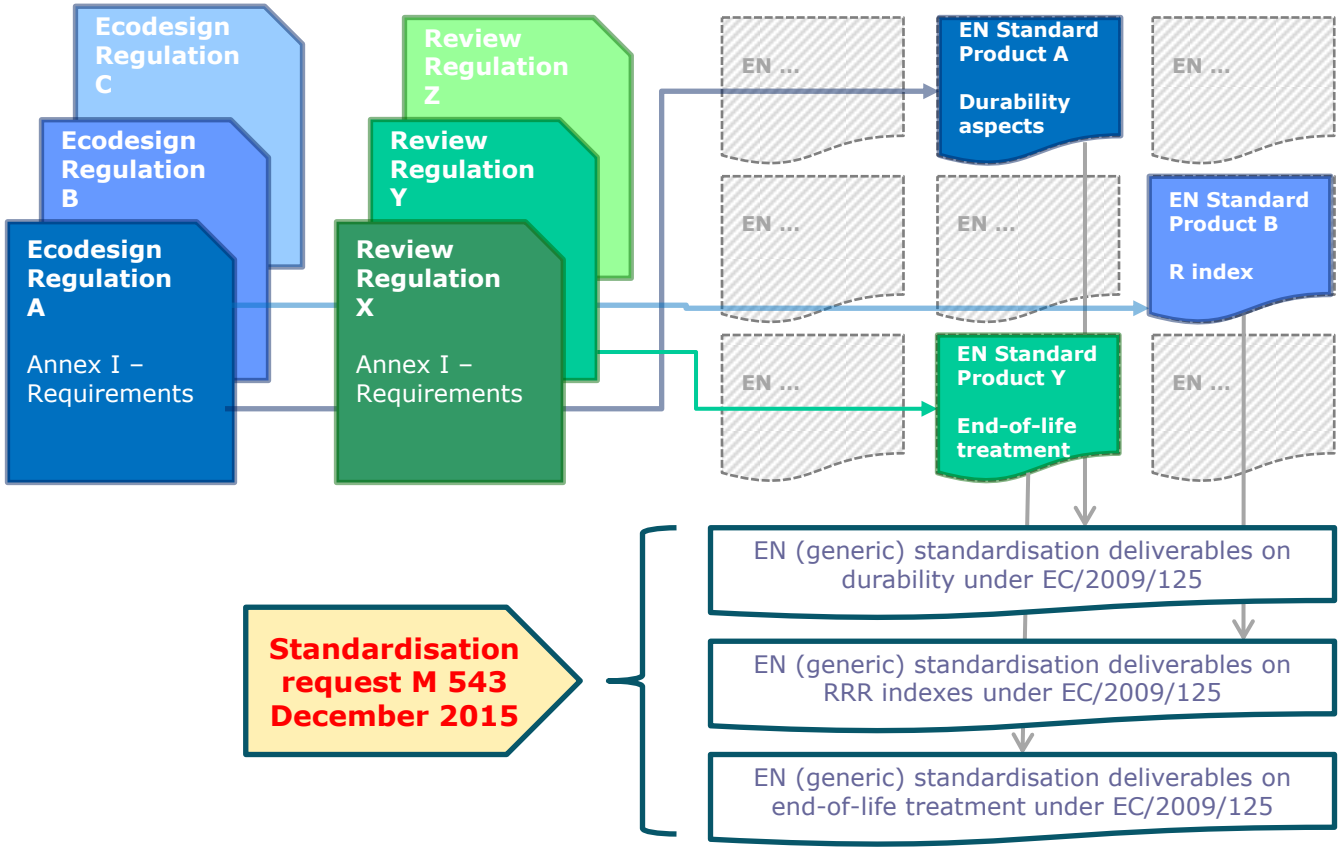
4 obstacles

- **Insufficient information** about substances of concern
- **Presence** of substances of concern in recycled materials
- **Uncertainties** about how materials can cease to be waste
- **Difficulties** in applying EU waste classification

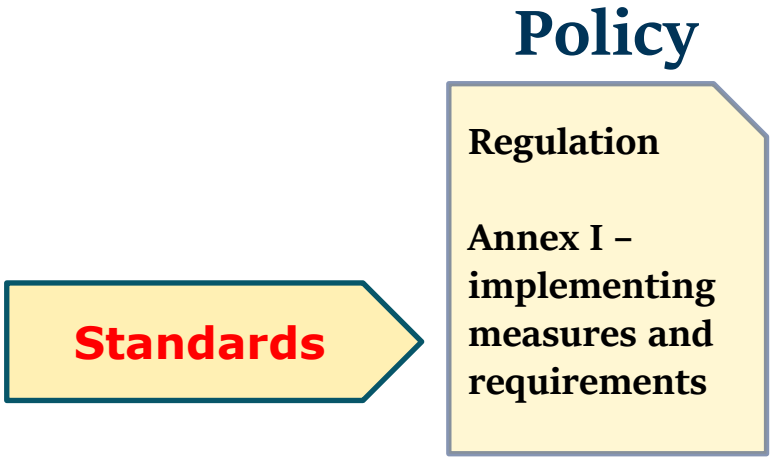
EEE and Circular Economy

- Ecodesign and energy labelling
  - ➔ Specific study on ICT products
- WEEE management and recycling
  - ➔ Article 15 of WEEE Directive on information exchange and Article 4 that links WEEE to Ecodesign (facilitate for reuse, dismantling and recovery)
- RoHS scope review proposal
  - ➔ Facilitating EEE reuse and remanufacturing
- Priority on Critical Raw Materials

Standardisation request on resource efficiency under the Ecodesign Directive EC/2009/125


Ecodesign Regulation C
Ecodesign Regulation B
Ecodesign Regulation A
Annex I – Requirements
Review Regulation Z
Review Regulation Y
Review Regulation X
Annex I – Requirements
EN ...
EN Standard Product A
Durability aspects
EN ...
EN ...
EN ...
EN Standard Product B
R index
EN ...
EN Standard Product Y
End-of-life treatment
EN ...
Standardisation request M 543 December 2015
EN (generic) standardisation deliverables on durability under EC/2009/125
EN (generic) standardisation deliverables on RRR indexes under EC/2009/125
EN (generic) standardisation deliverables on end-of-life treatment under EC/2009/125

The role of standards



Standards are used when technical content is introduced in a legal document

metaphorically…. standards can be seen as an entry point of the technical experts world, the "real" world of implementation to policy makers.

Circular Economy and Digitalisation

- Extending the life cycle of products
- Develop innovative business models
- Empowering consumers for circular economy
- Closing the loop from waste to resources

Extending life-cycle of products

- Smarter design
- Predictive maintenance, increased reparability
- Internet of Things
- Reuse, refurbishment, remanufacturing

Intelligence and data management for CE

- Empowering consumers for circular economy
  - ➔ New access to information on resources use
  - ➔ Improved labelling, public procurement
  - ➔ Transmission of information along the supply chain

- Closing the loop from waste to resources
  - ➔ Better sorting, identification of materials
  - ➔ Access to instructions on dismantling and treatment
  - ➔ Traceability of chemicals in materials

European Commission

Learn more about the Circular Economy

http://ec.europa.eu/environment/circular-economy/index_en.htm