



# **CIRCULAR ECONOMY**

Closing the loop

CIRCULAR ECONOMY

***2018 Circular Economy Package***

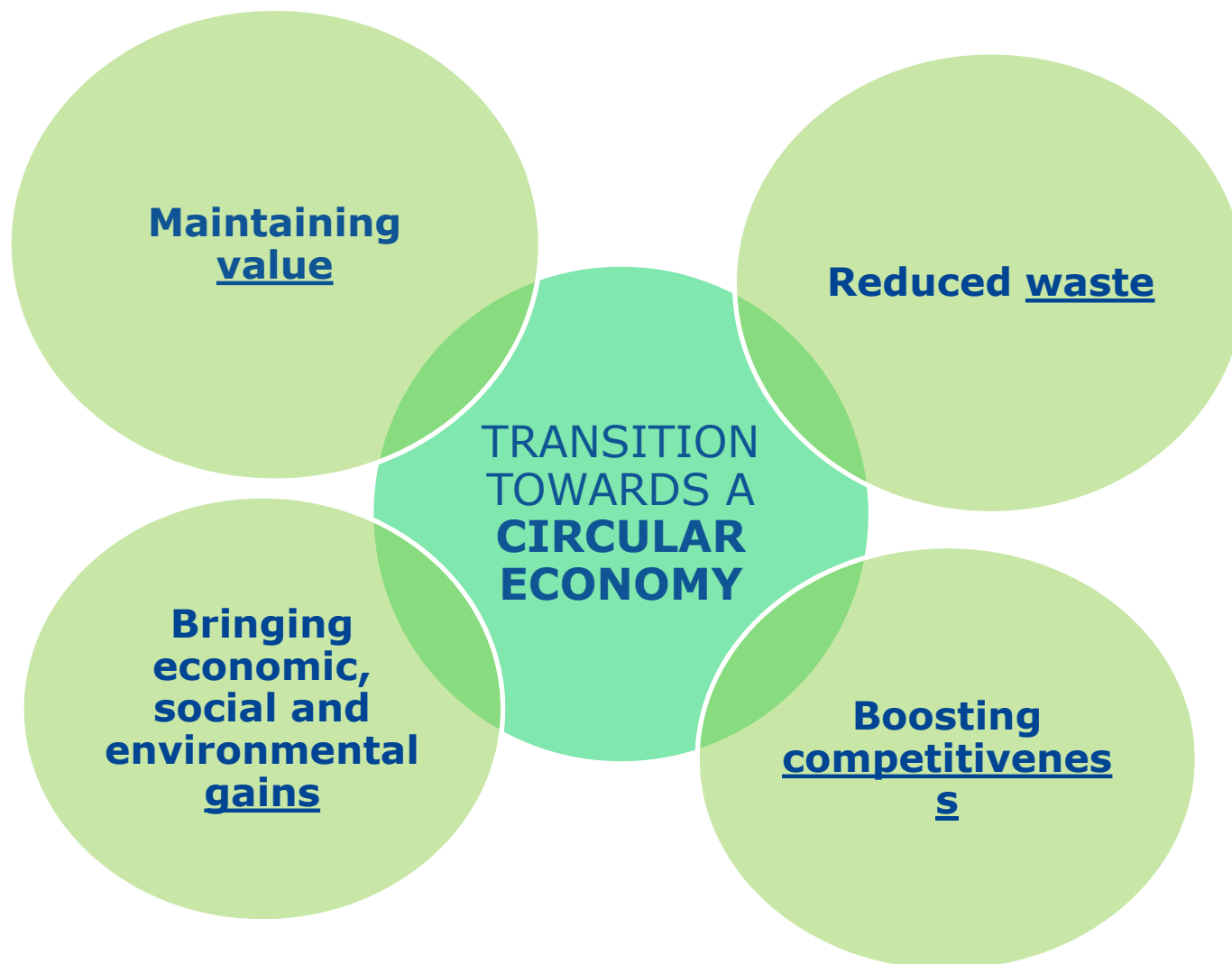
## Context



European  
Commission



# ***What's a circular economy?***



# Circular Economy Action Plan



European  
Commission

>80% of actions delivered

Actions	Timetable
<b>Production</b>	
Emphasis on circular economy aspects in future product requirements under the Ecodesign directive	2016 onwards
Ecodesign work plan 2015-2017 and request to European standardisation organisations to develop standards on material efficiency for setting future Ecodesign requirements on durability, reparability and recyclability of products	December 2015
Proposal for an implementing regulation on televisions and displays	End 2015 or beginning 2016
Examine options and actions for a more coherent policy framework of the different strands of work of EU product policy in their contribution to the circular economy	2016
Include guidance on circular economy into Best Available Techniques reference documents (BREFs) for several industrial sectors	2016 onwards
Guidance and promotion of best practices in the mining waste management plans	2016
Establishing an open, pan-European network of technological infrastructures for SMEs to integrate advanced manufacturing technologies into their production processes	2016
Examine how to improve the efficiency and uptake of the EU Eco-Management and Audit Scheme (EMAS) and the pilot programme on environmental technology verification (ETV)	2017
Develop an improved knowledge base and support to SMEs for the substitution of hazardous substances of very high concern	2016

<b>Consumption</b>	
Better enforcement of existing guarantees on tangible products, accompanied by a reflection on improvements (upcoming Commission proposal for online sales of goods, and Fitness Check of consumer legislation)	2015-2017
Action on false green claims, including updated guidance on unfair commercial practices	2016
Analysis of the possibility to propose horizontal requirements on repair information provision in the context of Ecodesign	2016
REFIT of Ecolabel, to be followed by actions to enhance its effectiveness	2016
Assessment of the possibility of an independent testing programme on planned obsolescence	2016
Subject to evaluation of the current ongoing pilots, explore the possible uses of the Product Environmental Footprint to measure and communicate environmental information	2016 onwards
Action on Green Public Procurement: enhanced integration of circular economy requirements, support to higher uptake including through training schemes, reinforcing its use in Commission procurement and EU funds	2016 onwards

<b>Waste management</b>	
Revised legislative proposal on waste	Dec 2015
Improved cooperation with Member States for better implementation of EU waste legislation, and combat illicit shipment of end-of-life vehicles	2015 onwards
Stepping up enforcement of revised Waste Shipment regulation	2016 onwards
Promotion of industry-led voluntary certification of treatment facilities for key waste/recyclable streams	2016 onwards
Initiative on waste to energy in the framework of the Energy Union	2016
Identification and dissemination of good practices in waste collection systems	2016 onwards

<b>Market for secondary raw materials</b>	
Development of quality standards for secondary raw materials (in particular for plastics)	2016 onwards
Proposal for a revised fertilisers regulation	Early 2016
Proposed legislation setting minimum requirements for reused water for irrigation and groundwater recharge	2017
Promotion of safe and cost-effective water reuse, including guidance on the integration of water reuse in water planning and management, inclusion of best practices in relevant BREFs, and support to innovation (through the European Innovation Partnership and Horizon 2020) and investments	2016-2017

Analysis and policy options to address the interface between chemicals, products and waste legislation, including how to reduce the presence and improve the tracking of chemicals of concern in products	2017
Measures to facilitate waste shipment across the EU, including electronic data exchange (and possibly other measures)	2016 onwards
Further development of the EU raw materials information system	2016 onwards

<b>Sectional action</b>	
<b>Plastics</b>	
Strategy on plastics in the circular economy	2017
Specific action to reduce marine litter implementing the 2030 Sustainable Development Goals	2015 onwards

<b>Food waste</b>	
Development of a common methodology and indicators to measure food waste	2016
Stakeholders platform to examine how to achieve SDGs goals on food waste, share best practice and evaluate progress	2016
Clarify relevant EU legislation related to waste, food and feed in order to facilitate food donation and utilisation of former foodstuffs for animal feed	2016
Explore options for more effective use and understanding of date marking on food	2017

<b>Critical raw materials</b>	
Report on critical raw materials and the circular economy	2017
Improve exchange of information between manufacturers and recyclers on electronic products	2016 onwards
European standards for material-efficient recycling of electronic waste, waste batteries and other relevant complex end-of-life products	2016 onwards
Sharing of best practice for the recovery of critical raw materials from mining waste and landfills	2017

<b>Construction and demolition</b>	
Pre-demolition assessment guidelines for the construction sector	2017
Voluntary industry-wide recycling protocol for construction and demolition waste	2016
Core indicators for the assessment of the lifecycle environmental performance of a building, and incentives for their use	2017 onwards

<b>Biomass and bio-based materials</b>	
Guidance and dissemination of best practice on the cascading use of biomass and support to innovation in this domain through Horizon 2020	2018-2019
Ensuring coherence and synergies with the circular economy when examining the sustainability of bioenergy under the Energy Union	2016
Assessment of the contribution of the 2012 Bioeconomy Strategy to the circular economy and possible review	2016

<b>Innovation and investments</b>	
Initiative 'Industry 2020 and the circular economy' under Horizon 2020	October 2015
Pilot project for 'innovation deals' to address possible regulatory obstacles for innovators	2016
Targeted outreach to encourage applications for funding under EFSI, and support the development of projects and investment platforms relevant to the circular economy	2016 onwards
Targeted outreach and communication activities to assist Member States and regions for the uptake of Cohesion Policy funds for the circular economy	2016 onwards
Support to Member States and regions to strengthen innovation for the circular economy through smart specialisation	2016 onwards
Assessment of the possibility of launching a platform together with the EIB and national banks to support the financing of the circular economy	2016
Engagement with stakeholders in the implementation of this action plan through existing fora in key sectors	2016 onwards
Support to a range of stakeholders through actions on public-private partnerships, cooperation platforms, support to voluntary business approaches, and exchanges of best practices	2015 onwards

<b>Monitoring</b>	
Development of a monitoring framework for the circular economy	2017

# **2018 Circular Economy Package**





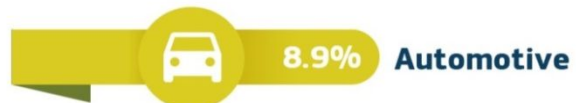
# Plastics in Europe



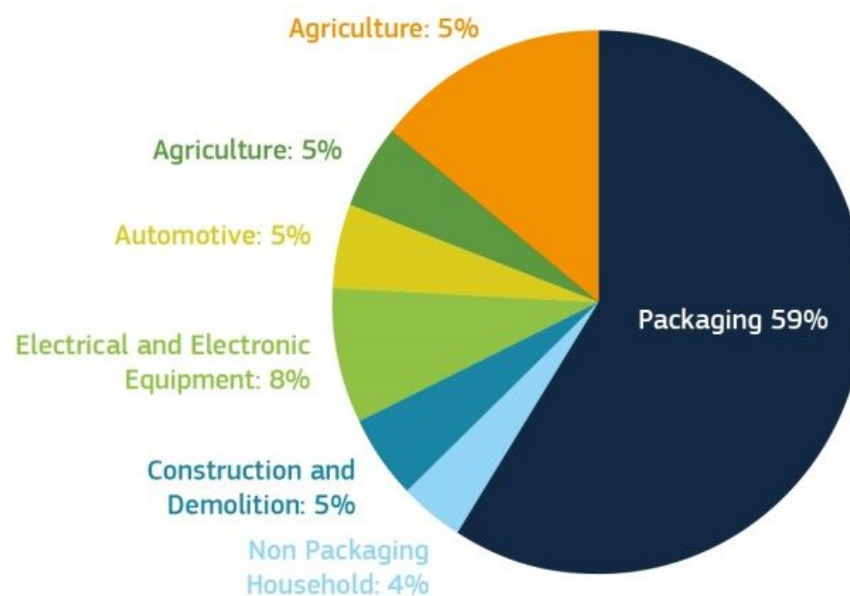
European  
Commission

## EUROPEAN PLASTICS DEMAND IN 2015

49 million tonnes



## EU PLASTIC WASTE GENERATION N 2015



Source: Eunomia (2017)

# Europeans on Plastics



Please tell me to what extent you agree or disagree with each of the following statements. (%-EU)



**74%**  
agree  
**23%**  
disagree

You are worried about the impact on your health  
of everyday products made of plastics



**87%**  
agree  
**11%**  
disagree

You are worried about the impact on the environment  
of everyday products made of plastics

**In your opinion, how important is each of the following in reducing plastic waste and littering (%-EU)**

Products should be designed in a way that  
facilitates the recycling plastic



Industry and retailers should make an  
effort to reduce plastic packaging



Local authorities should provide more and  
better collection facilities for plastic waste



People should be educated on how to  
reduce their plastic waste



Consumers should pay an extra charge for  
single-use plastic goods (cutlery, cups, etc.)



## A EUROPEAN STRATEGY FOR PLASTICS IN THE CIRCULAR ECONOMY

- **Smart**
- **Innovative**
- **Sustainable**



- **Opportunities**
- **Social innovation**
- **Environment**

Four main axis







**Better separate waste collection**

**Boosting recycled content**

**Stimulate design for circularity**



all plastics packaging  
**reusable or recyclable  
by 2030**



**Actions on single use  
plastic**

**Tackling marine litter**

**Improve harmonisation  
(framework)**

**Litter National plans  
(Waste Package)**



### **Strategic Research Innovation Agenda for Plastics (2018)**

**H2020 additional €100 million  
Investments (*up until 2020*)**



### **Call for global action**

**Support to multilateral  
initiatives on plastics**

**Development in cooperation  
funding (European External  
Investment Plan)**

***Upcoming in 2018***



## ITEMS FOUND ON EU BEACHES



## ***Single use plastics***

- **Public consultation (Dec 2017 – 12 Feb 2018)**
- **Focus on most found items in beaches (including fishing gears)**
- **2018 impact assessment**



Report on  
oxo-  
degradable  
plastics

## ***Report on Oxo-degradable plastics***

**No conclusive evidence on beneficial effects of oxo-degradable plastics on the environment**



**Potential risk to the environment  
(e.g. micro-plastics accumulation in soils  
and water)**

**Oxo-degradable plastics not a solution for  
the environment**



**"EU wide measures should be considered"**  
(Plastics Strategy)

## ***Revision of Directive on Port reception facilities***

**potential for addressing the sea-based  
sources of marine litter**



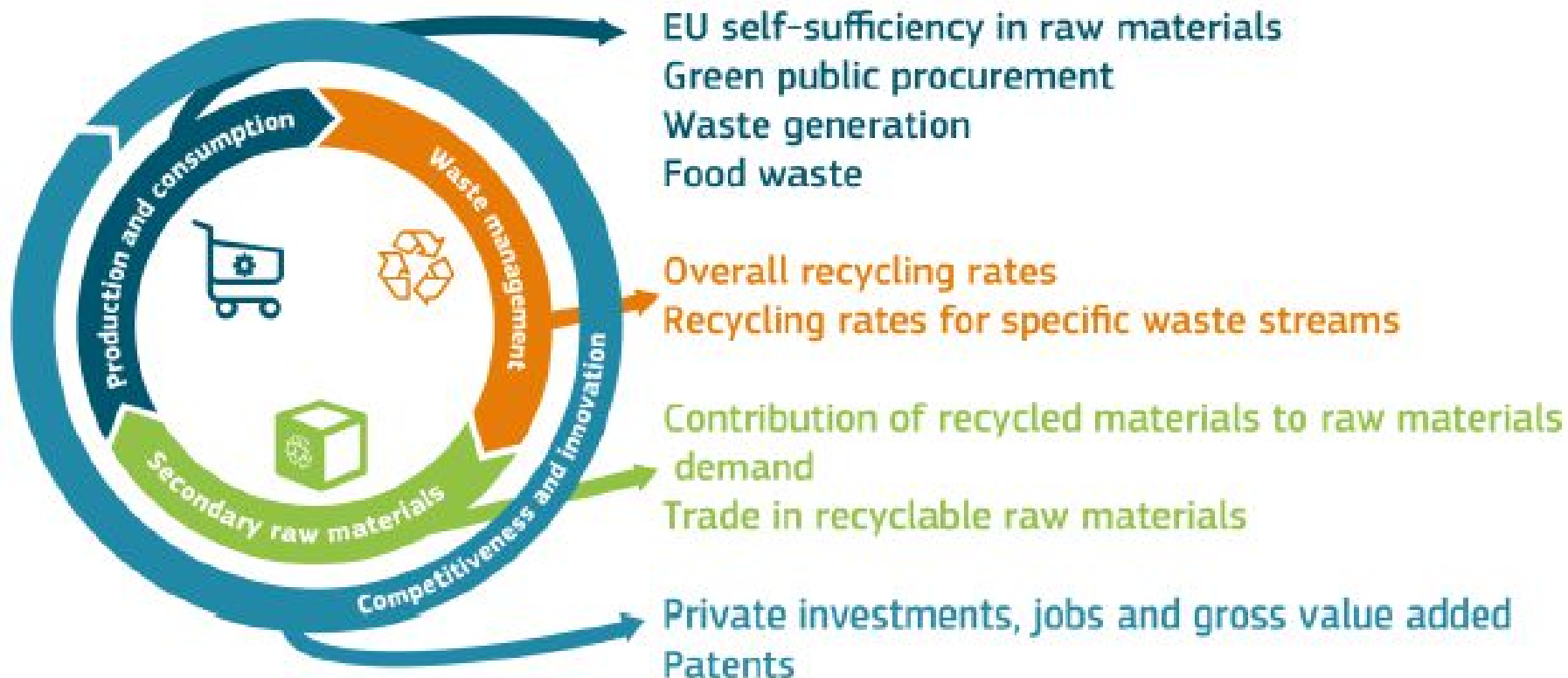
- **Ensuring waste delivery from ships**
- **Adopting principles of EU waste policy**
- **Separate collection of waste in ports**
- **100% indirect fee (= 'No Special Fee')  
for garbage from ships**





## CIRCULAR ECONOMY MONITORING FRAMEWORK

*Measuring progress at EU and national level in the transition to a circular economy*





European  
Commission

Circular  
Economy  
Monitoring  
Framework

## CIRCULAR ECONOMY MONITORING FRAMEWORK

*Measuring progress at EU and national level in the transition to a circular economy*

### 1/ EU SELF-SUFFICIENCY FOR RAW MATERIALS

The share of a selection of key materials (including critical raw materials) used in the EU that are produced within the EU

### 2/ GREEN PUBLIC PROCUREMENT

The share of major public procurements in the EU that include environmental requirements

### 3 A-C/ WASTE GENERATION

Generation of municipal waste per capita; total waste generation (excluding major mineral waste) per GDP unit and in relation to domestic material consumption

### 4/ FOOD WASTE

Amount of food waste generated

### 7A-B/ CONTRIBUTION OF RECYCLED MATERIALS TO RAW MATERIALS DEMAND

Secondary raw materials' share of overall materials demand – for specific materials and for the whole economy

### 8/ TRADE IN RECYCLABLE RAW MATERIALS

Imports and exports of selected recyclable raw materials



### 5A-B/ OVERALL RECYCLING RATES

Recycling rate of municipal waste and of all waste except major mineral waste

### 6A-F/ RECYCLING RATES FOR SPECIFIC WASTE STREAMS

Recycling rate of overall packaging waste, plastic packaging, wood packaging, waste electrical and electronic equipment, recycled biowaste per capita and recovery rate of construction and demolition waste

### 9A-C/ PRIVATE INVESTMENTS, JOBS AND GROSS VALUE ADDED

Private investments, number of persons employed and gross value added in the circular economy sectors

### 10/ PATENTS

Number of patents related to waste management and recycling

## INTERFACE OF CHEMICALS, PRODUCTS AND WASTE LEGISLATION

### Barriers for a full circular economy



Insufficient **information**



Presence of  
**substances of concern**



Difficulties to apply  
**End of Waste criteria**



No clear application of EU waste  
**classification** methodologies



### Challenges

- **Defining and tracking** substance of concern
- **Level playing field between:** secondary and primary material  
EU-produced and imported articles
- **Design for circularity**
- Improving **certainty** in implementation
- **Approximating** the rules
- Better **classification**



The Communication identified possible options to overcome the barriers

**Objective: opening discussion with MS and stakeholders**

## REPORT ON CRITICAL RAW MATERIALS

What's a Critical Raw Material (CRM)?

- **high risk of a supply disruption**
- **high economic importance**  
to the EU economy

**Objective:**

**-Coherent and effective EU  
approach** to CRMs and the  
Circular Economy



- **Global situation of the 27 CRMs**
- **Mapping of EU key actors, policies, and data**
- **Analysis of 8 key sectors with:**
  - Data*
  - Existing EU policies*
  - Best Practices*
  - Possible further actions*



*to be further assessed*



#CEstakeholderEU

## European Circular Economy Stakeholder Platform

A joint initiative by the European Commission and the European Economic and Social Committee



Home

Good Practices

Strategies

Knowledge

Policy & Commitments

Dialogue

Contribute!

News & Events

About

- **Advancing the circular economy concept on the ground**
- **Strengthening cooperation among stakeholders' networks**



### **Coordination Group:**

*representatives of networks of businesses, civil society and local, regional and national public authorities*



**Submit your own good practices, knowledge, strategies and policy commitments!**

Link to website: <http://circulareconomy.europa.eu/platform/>





# **CIRCULAR ECONOMY**

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***Thank you for your attention***

***Learn more about the circular economy***

[http://ec.europa.eu/environment/circular-economy/index\\_en.htm](http://ec.europa.eu/environment/circular-economy/index_en.htm)



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