



## Circular Economy Action Plan

For a cleaner and  
more competitive  
Europe

# Monitoring progress towards the circular economy in the EU

**Videoconference  
European Resource Forum**

**Parallel session 7: Resource efficiency and circular  
economy indicators and targets**

**3 November 2020**

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DG Environment, European Commission**

# Monitoring progress on Circular economy in the EU

## Policy context

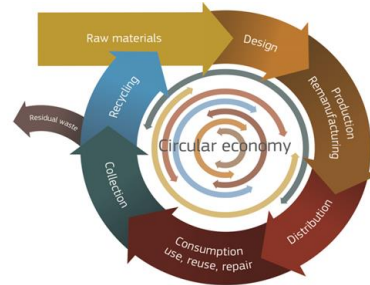


- EUROPEAN PARLIAMENT: (...) calling upon the Commission to develop indicators on resource efficiency to track progress towards circular economy (...)(EP Resolution of 9 July 2015)
- EUROPEAN COMMISSION: (...) the Commission will (...) propose a simple and effective monitoring framework for the circular economy (...) (Circular Economy Action Plan, 2 December 2015) :  
*“In order to assess progress towards a more circular economy and the effectiveness of action at EU and national level, it is important to have a set of reliable indicators. (.....) On this basis, the Commission will work in close cooperation with the European Environment Agency (EEA) and in consultation with Member States to propose a simple and effective monitoring framework for the circular economy”*
- EU COUNCIL: (...) the need for a monitoring framework to strengthen and assess the progress towards CE, while minimising the administrative burden (...)
- (Environment Council conclusions of 20 June 2016)

# Monitoring progress on Circular economy in the EU

## Principles

- Systemic Change  
[entire economy, all products & services]
- One, universal "circularity" indicator does not exist
- Need to cover all stages of the lifecycle [of resources, products & services] and overall economic aspects



## Approach

- **10** individual indicators
- In **4** main groups
  - production/consumption;
  - waste management;
  - secondary raw materials,
  - competitiveness/innovation
- Covering the **entire loop**
- Capturing **main** CE elements
- Also presented on a **website**, continuously updated

# EU Monitoring framework for the Circular economy

## WHEN?

16 January 2018

## HOW?

within the mini-package on Circular Economy

## WHO?

Commissioners Bieńkowska, Vella and Thyssen  
in agreement with FVP Timmermans and VP Katainen

## WHAT?

- Communication – [COM \(2018\) 29](#)
- Staff Working Document – [SWD \(2018\) 17](#)
- Website – [Eurostat dedicated section](#)

# EU Monitoring framework for the Circular economy

## Overview of the 10 indicators

1 EU self-sufficiency for raw materials

2 Green public procurement

3a-c Waste generation

4 Food waste

7a-b Contribution of recycled materials to raw materials demand

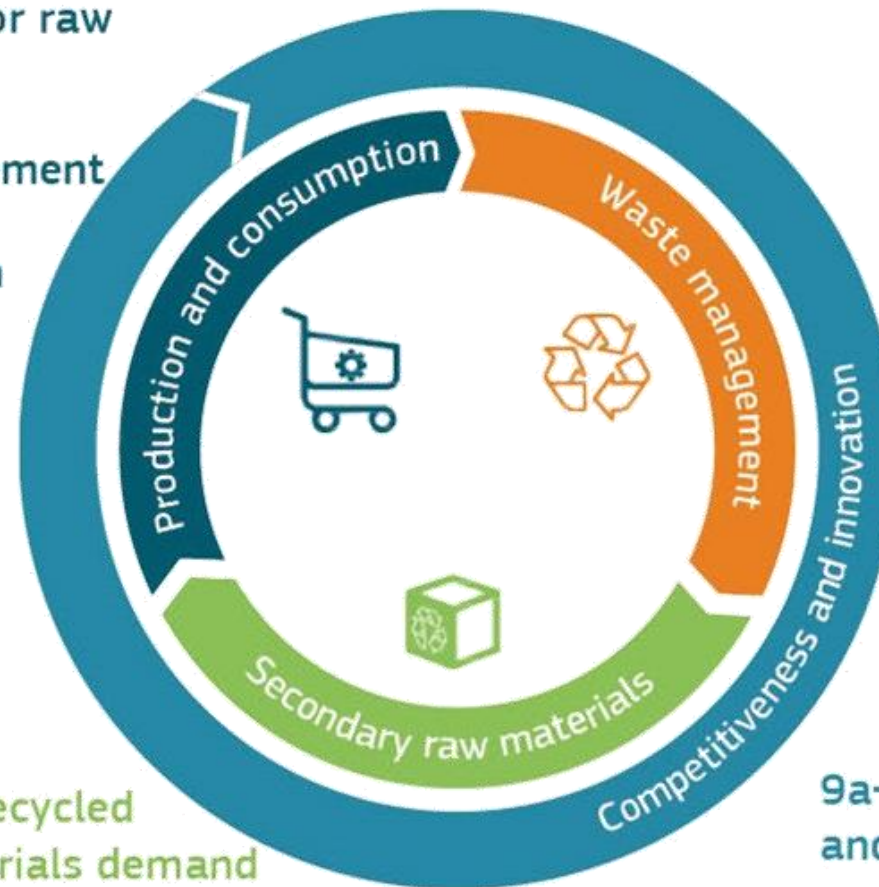
8 Trade in recyclable raw materials

5a-b Overall recycling rates

6a-f Recycling rates for specific waste streams

9a-c Private investments, jobs and gross value added

10 Patents





# EU Monitoring framework for the Circular economy

## What the indicators measure

### 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

### 5a-b Overall recycling rates

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

### 6 a-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

### 7 a-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

### 9 a-c Private investments, jobs and gross value added

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

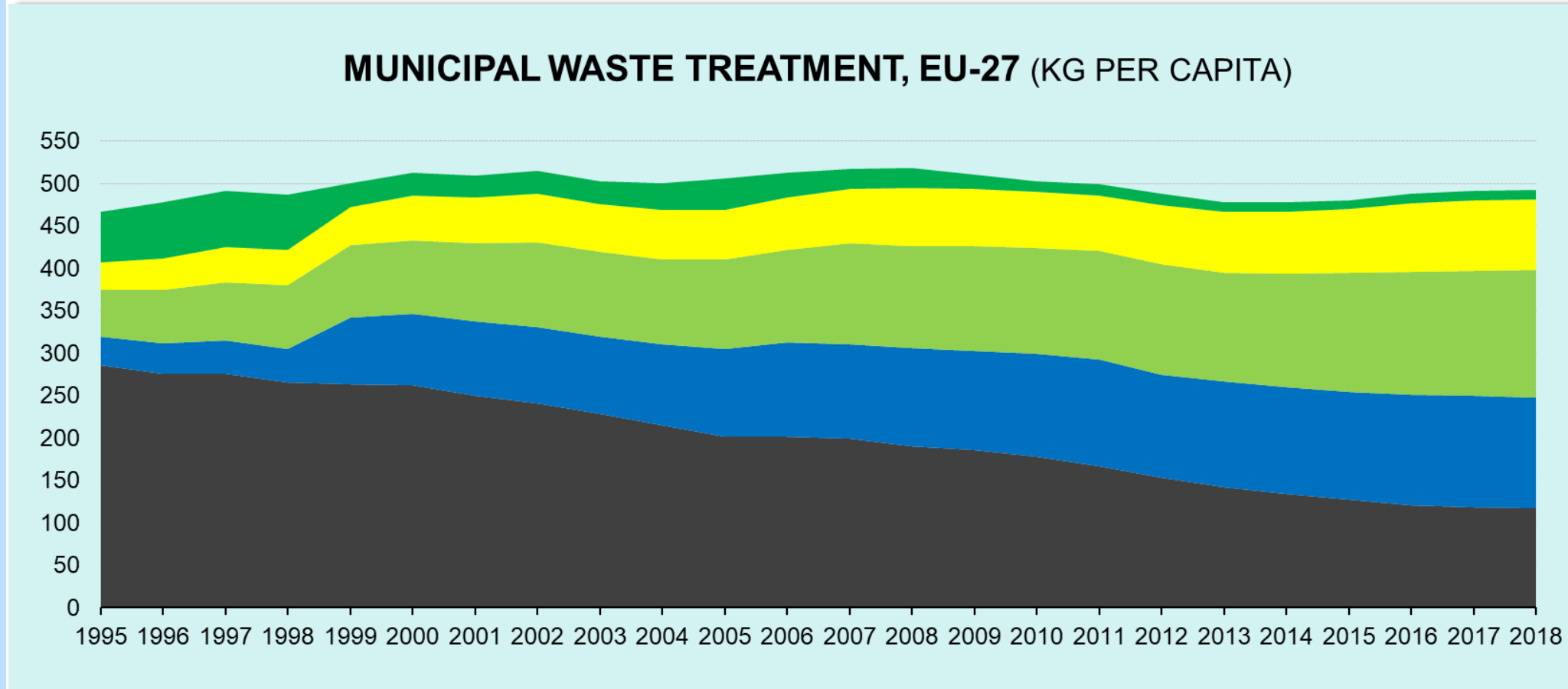
### 10 Patents

Number of patents related to waste management and recycling



# EU Monitoring framework for the Circular economy

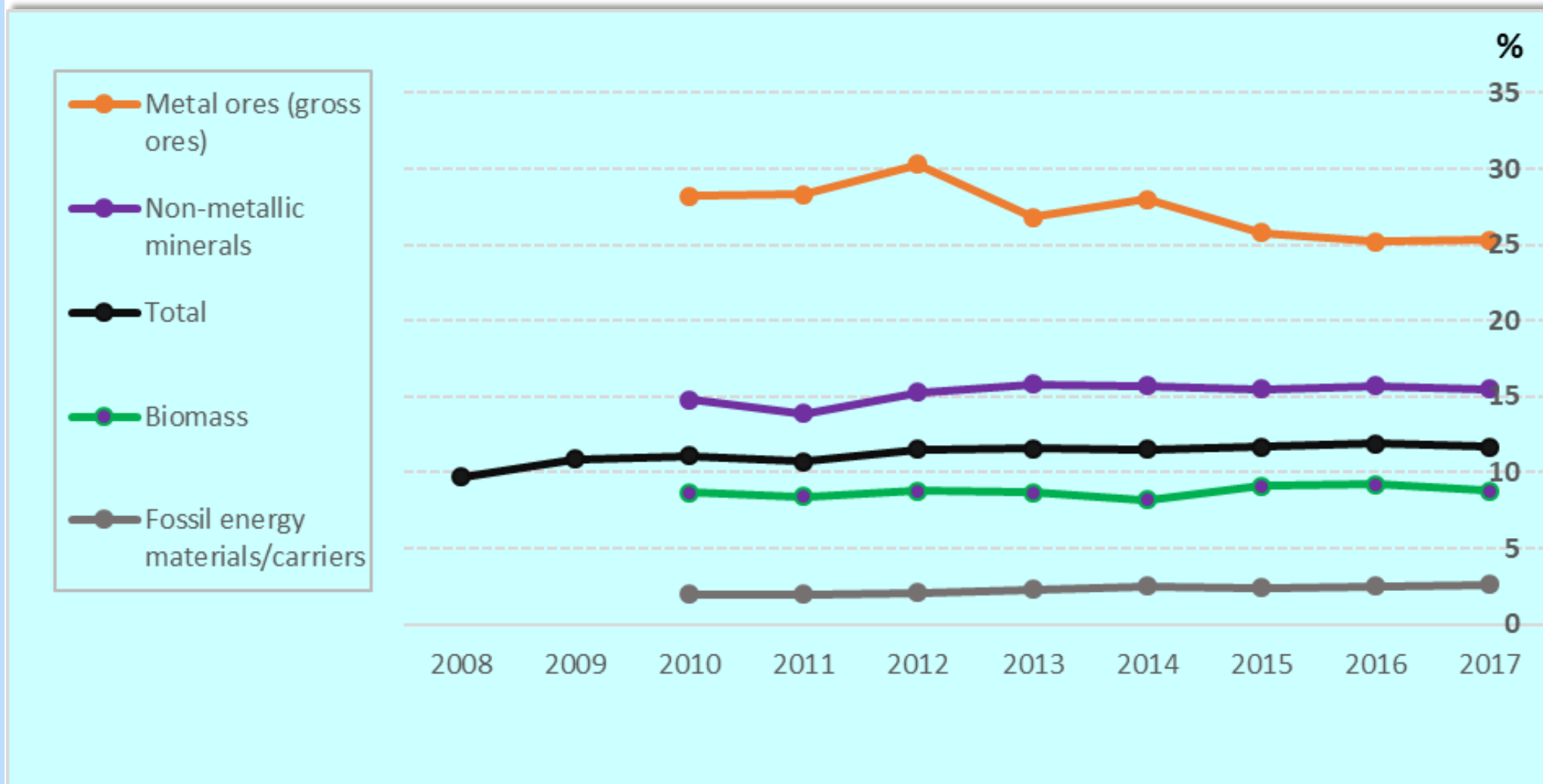
## Waste management



# EU Monitoring framework for the Circular economy

## Secondary Raw Materials

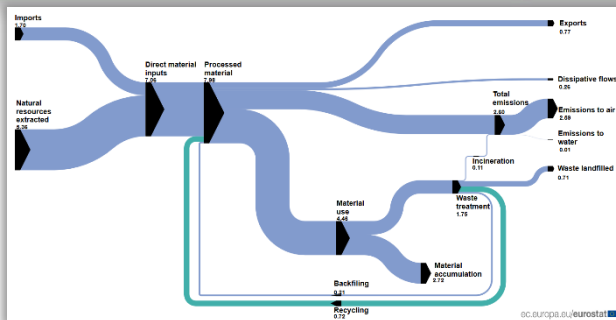
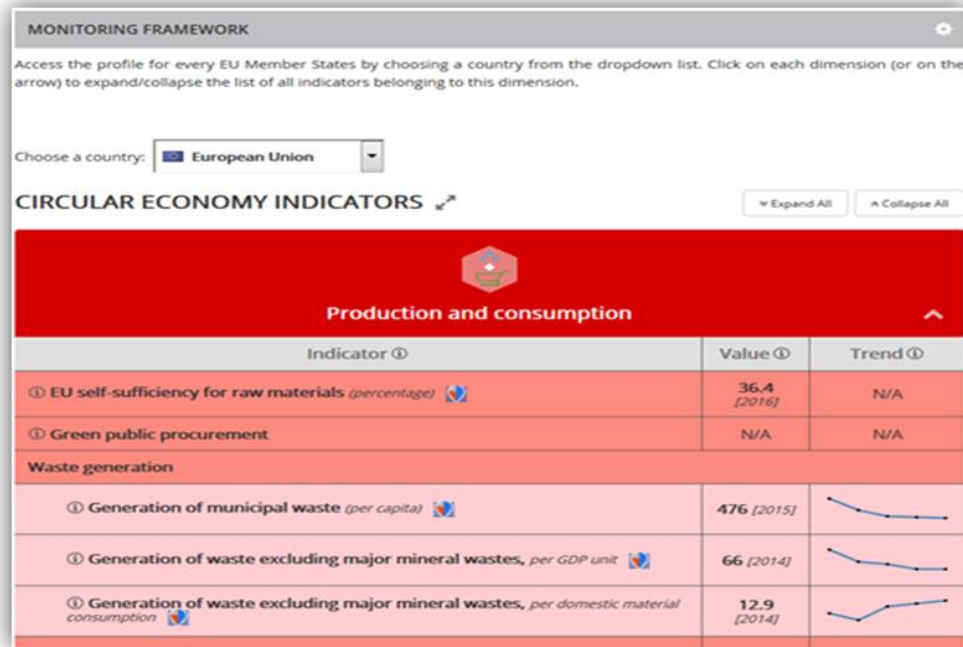
Circular material use rate in the EU by material category





# EU Monitoring framework for the Circular economy

## Web pages eurostat



Eurostat - Tables, Graphs a...

http://ec.europa.eu/eurostat/tgm/table.do?tab=table

**eurostat**

Table Graph Map

2.4.2-r2159-2016-08-11 (PROO) Online support Legal Notice

**Recycling rate of municipal waste**

%

The recycling rate, expressed in percentage, is the tonnage recycled from municipal waste ... more

Code: cei\_wm011

| geo               | time | 2011              | 2012              | 2013              | 2014              | 2015              |
|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|
| EU (28 countries) |      | 39.6 <sup>s</sup> | 41.5 <sup>s</sup> | 42.2 <sup>s</sup> | 43.7 <sup>s</sup> | 45.0 <sup>s</sup> |
| EU (27 countries) |      | 39.8 <sup>s</sup> | 41.7 <sup>s</sup> | 42.4 <sup>s</sup> | 43.9 <sup>s</sup> | 45.2 <sup>s</sup> |
| Belgium           |      | 54.3              | 53.1              | 52.7              | 53.2              | 53.4              |
| Bulgaria          |      | 26.2              | 25.0              | 28.5              | 23.1              | 29.4              |
| Czech Republic    |      | 17.0 <sup>e</sup> | 23.2 <sup>e</sup> | 24.2 <sup>e</sup> | 25.4 <sup>e</sup> | 29.7 <sup>e</sup> |
|                   |      |                   |                   | 43.2              | 45.1              | 46.3              |
|                   |      |                   |                   | 63.8              | 65.6              | 66.1 <sup>e</sup> |
|                   |      |                   |                   | 17.9              | 31.3              | 28.3              |

Source of Data: Eurostat

**eurostat**

**Circular material use rate (cei\_srm030)**

Indicator Profile (ESMS)

Data tables: cei\_srm030

Compiling agency: Eurostat, the statistical office of the European Union

| Eurostat metadata                            |  |
|--|--|
| Reference metadata                           |  |
| 1. Contact                                   |  |
| 2. Metadata update                           |  |
| 3. Relevance                                 |  |
| 4. Statistical indicator                     |  |
| 5. Frequency and Timeliness of dissemination |  |
| 6. Coverage and comparability                |  |
| 7. Accessibility and clarity                 |  |
| 8. Comment                                   |  |
| Related Metadata                             |  |
| Annexes (including footnotes)                |  |

| Eurostat Quality Profile          |                 |
|-----------------------------------|-----------------|
| 4.5. Source data                  | ESS             |
| 5.1. Frequency of dissemination   | Every 2 years   |
| 5.2. Timeliness                   | T-2 years       |
| 6.1. Reference area               | All EU MS       |
| 6.2. Comparability - geographical | All EU MS       |
| 6.3. Coverage - Time              | > 10 years      |
| 6.4. Comparability - over time    | > 4 data points |

Description of Eurostat quality grading system under the following link.

Download

For any question on data and metadata, please contact: [EUROPEAN STATISTICAL DATA SUPPORT](#)

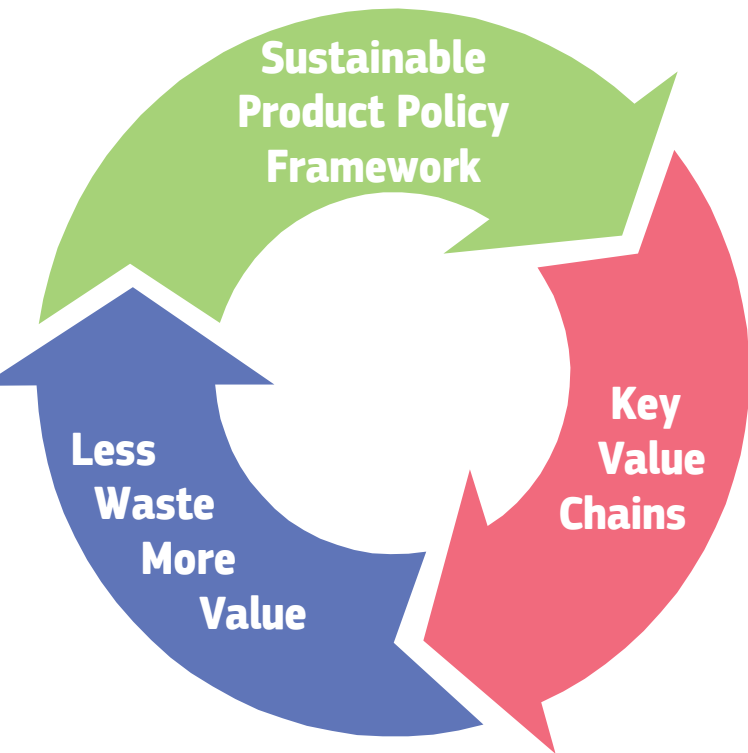
| 1. Contact                     |  |
|--------------------------------|--|
| 1.1. Contact organisation      | Eurostat, the statistical office of the European Union             |
| 1.2. Contact organisation unit | E2: Environmental statistics and accounts; sustainable development |
| 1.5. Contact mail address      | 2920 Luxembourg LUXEMBOURG   |

| 2. Metadata update           |            |
|------------------------------|------------|
| 2.1. Metadata last certified | 28/11/2017 |
| 2.2. Metadata last posted    | 28/11/2017 |
| 2.3. Metadata last update    | 28/11/2017 |

# WHAT NEXT?



# A new Circular Economy Action Plan – March 2020



Make sustainable products the norm in the EU  
Empower consumers and public buyers  
Sustainable production processes

Electronics and ICT  
Batteries and vehicles  
Packaging  
Plastics  
Textiles  
Construction and buildings  
Food, water and nutrients

Reduce Waste  
Reduce Waste Exports  
Boost market for high quality and safe secondary raw materials

**Making circular economy work for people, regions and cities**

**Circular economy as a requisite for climate neutrality**

**Getting the Economics Right**

**Financial Markets**

**Investments and R&I**

**Global Level Playing Field**

**Monitoring**

# Actions on Monitoring progress



Monitoring  
Framework for the  
Circular Economy

**“ revision of the monitoring framework for a circular economy to add new indicators (interlinkages between circularity, climate neutrality and the zero pollution ambition)”**



Indicators on  
resource use

**“ development of indicators on resource use, including consumption and material footprints to account for material consumption and environmental impacts associated to our production and consumption”**

# Better monitoring circular economy



## Improving the EU monitoring framework by 2021

1. Linking to priorities of the new circular economy action plan
2. Considering the opinions from other EU institutions and stakeholders
3. Bellagio declaration
4. Contribution to monitor the 8th Environment Action Programme



## Supporting other initiatives on circular economy metrics

- For cities (EU Urban partnership on circular economy, OECD)
- For regions (SCREEN)
- For nations
- For business
- For SDGs (global and EU indicators)
- PACE initiative on CE metrics



# Circular economy in the EU

## To know more

European Commission priority European Green Deal:

[https://ec.europa.eu/info/strategy/priorities-2019-2024/european-green-deal\\_en](https://ec.europa.eu/info/strategy/priorities-2019-2024/european-green-deal_en)

DG Environment:

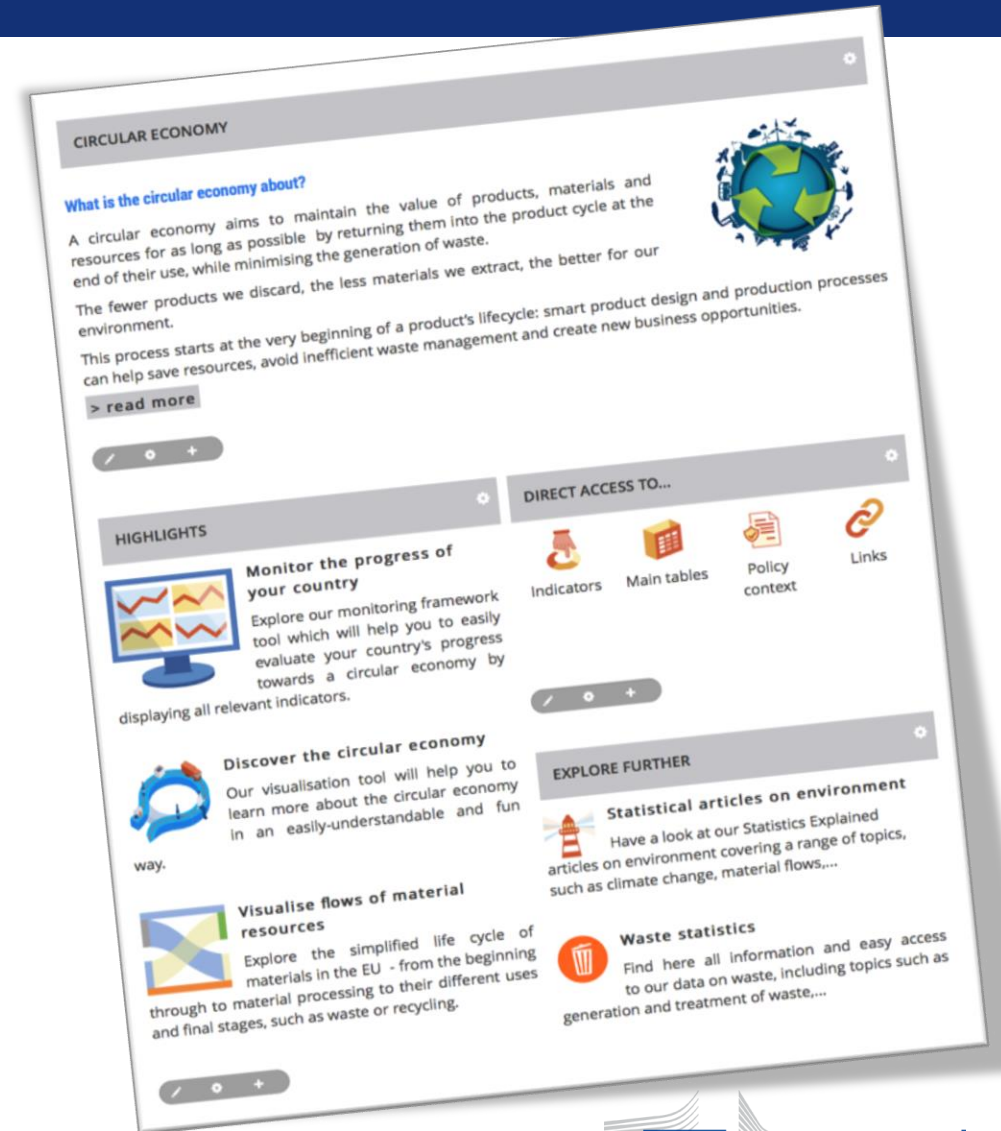
[https://ec.europa.eu/environment/circular-economy/index\\_en.htm](https://ec.europa.eu/environment/circular-economy/index_en.htm)

DG Internal Market, Industry, Entrepreneurship and SMEs:

[https://ec.europa.eu/growth/industry/sustainability/circular-economy\\_en](https://ec.europa.eu/growth/industry/sustainability/circular-economy_en)

Eurostat:

<http://ec.europa.eu/eurostat/web/circular-economy>



# Thank you

More here:

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



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