

# Domestic Material Consumption (DMC) as an important policy indicator

#### Stephan MOLL, Eurostat

Global Webinar on Geospatial and Other Data Sources for Environment Statistics: Assessing the Impact of the Economy on the Environment

#### Introduction

- Increase the knowledge about statistics on the impact of economy on environment
- classical economics theory:

natural resources = production factors

• SEEA-CF = statistical accounting framework



### Policies

- Responsible production and consumption patterns
- Resource productivity / resource efficiency
- Circular economy
- Statistics for the Green Deal



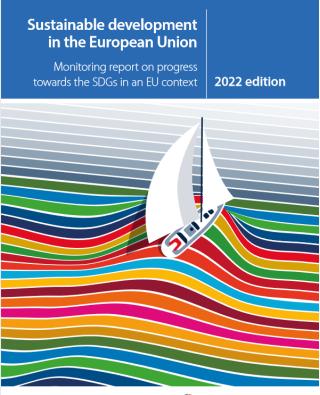
#### Responsible production and consumption

- ... means using resources efficiently, respecting resource constraints and reducing pressures on natural capital to increase overall well-being.
- Increase the knowledge about statistics on the impact of economy on environment



## Responsible production and consumption

• Monitoring of Sustainable Development:





#### Table 12.1: Indicators measuring progress towards SDG 12, EU

Indicator	Long-term trend (past 15 years)	Short-term trend (past 5 years)
Decoupling environmental impacts from economic growth		
Consumption of hazardous chemicals		<b>N</b>
Material footprint		Ļ
Average CO <sub>2</sub> emissions from new passenger cars	()	<b>S</b>
Energy productivity (*)	1	1
Green economy		
Gross value added in the environmental goods and services sector	1	1
Waste generation and management		
Circular material use rate	1	1
Generation of waste excluding major mineral wastes	(2)	(3)

(\*) Multi-purpose indicator.

- (1) Past 13-year period.
- <sup>(2)</sup> Past 14-year period.

(3) Past 4-year period.



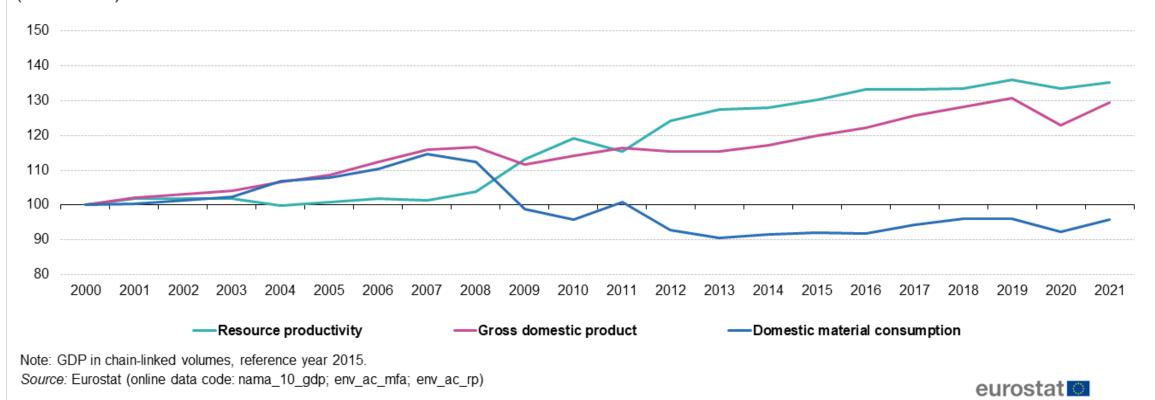
### **Resource productivity**

- EU to decouple economic growth and the improvement of living standards from resource use and its possible negative environmental impacts.
- DMC is used to monitor resource productivity



#### **Resource productivity**

**Development of resource productivity in comparison with GDP and DMC, EU, 2000-2021** (2000 = 100)



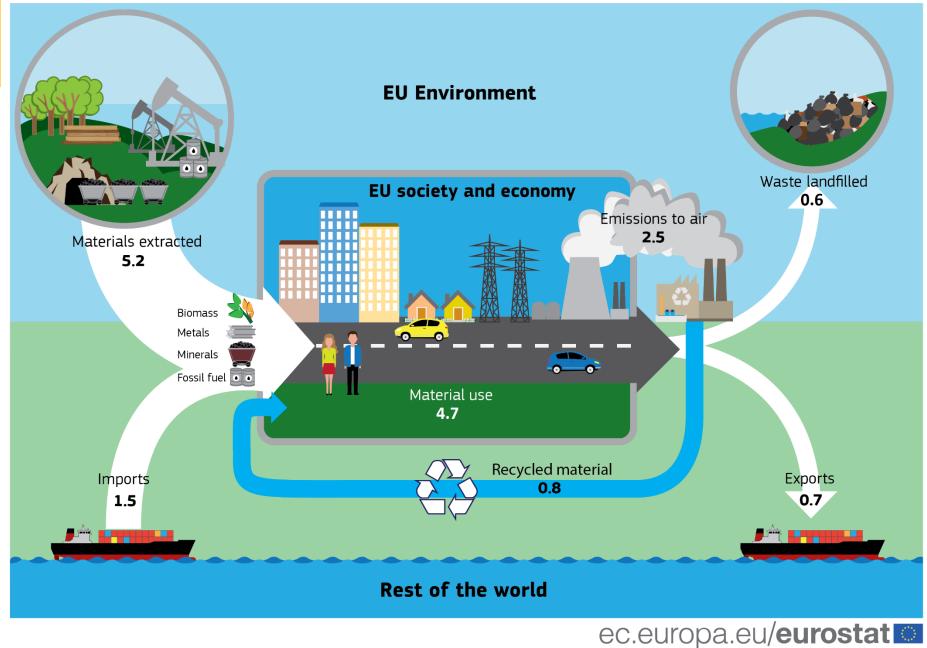


## **Circular Economy**

- ...increasing the circularity of materials in the economy,
- thereby reducing both the need for resource extraction and
- the amount of waste ending up in landfills or incineration.



#### Material flows in the EU, 2021, billion tonnes per year (GT/year)





### **Circular Economy**

• Indicator: circular material use rate (CMU)

CMU = U/M

with

 $U = RCV_R - IMPw + EXPw$ 

with

*RCV<sub>R</sub>*: Recycling, on the basis of the treatment operations defined in the Waste Framework Directive 2008/98/EC *IMP<sub>W</sub>*: amount of imported waste bound for recycling, and *EXP<sub>W</sub>*: amount of exported waste bound for recycling

and

M = DMC + U

### A European Green Deal

• European Green Deal => political strategy 2019-2024 for the EU

 => Europe aims to be the first climate-neutral continent by becoming a modern, resource-efficient economy.

• => Monitoring dashboard by Eurostat





## Thank you



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