# Insights from the European Environment Agency

Almut Reichel | 14 June 2024





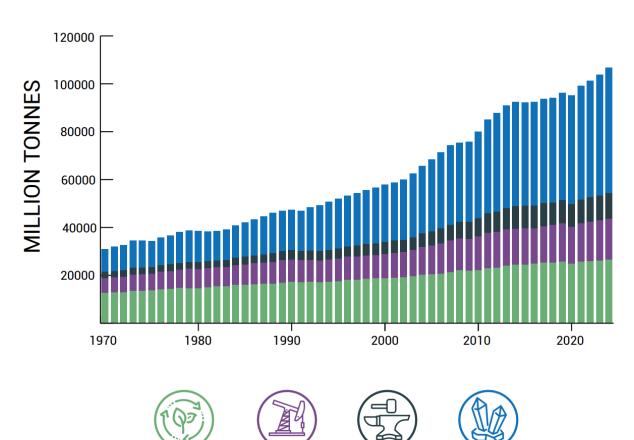
'Accelerating the circular economy in Europe'
State and Outlook 2024

#### Resource use as key driver of environmental impacts

## The International Resource Panel (2024) estimates that resource extraction and processing accounts for:

- > 55% of greenhouse gas emissions
- > 90% of total global biodiversity loss and water stress
- > 50% of total PM pollution

#### Global material extraction and processing





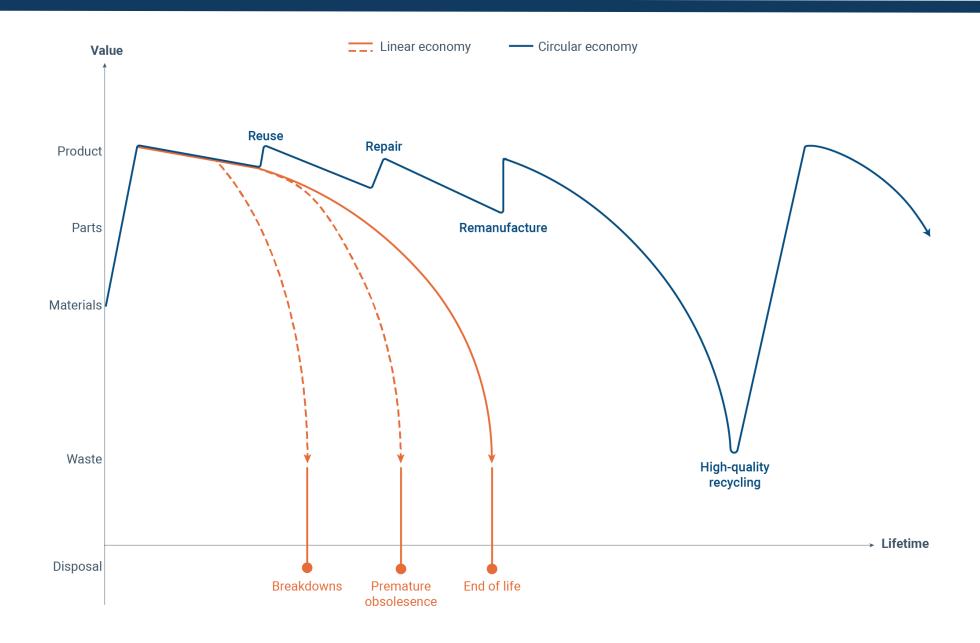
Metals

Non-metallic minerals

**Fossil fuels** 

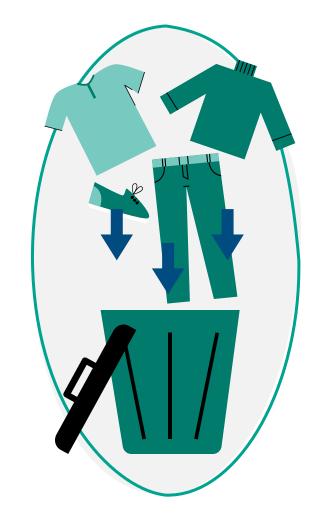
**Biomass** 

#### An effective circular economy: retaining high value, for longer



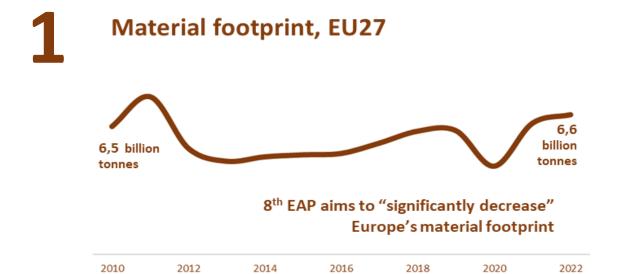
#### **Example of a wasteful system: Destruction of unsold and returned textiles**

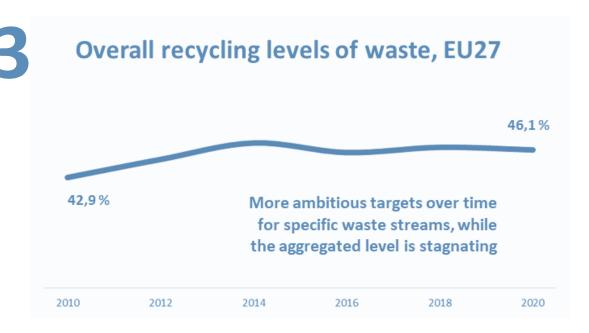
- **4-9%** of all textile products put on the market in Europe are **destroyed before use**
- 22-43% of all returned clothing bought online, ends up destroyed
- With the EU policy decision to introduce a ban on destruction of textiles and footwear, producers must find solutions to sell all products

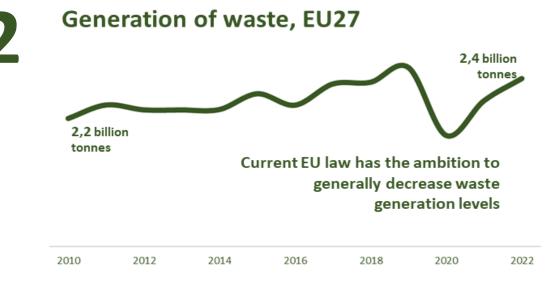


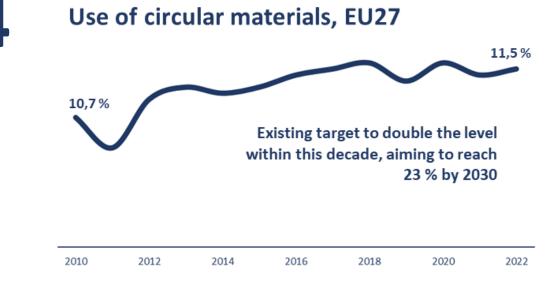


#### **Circularity in Europe: state of play**

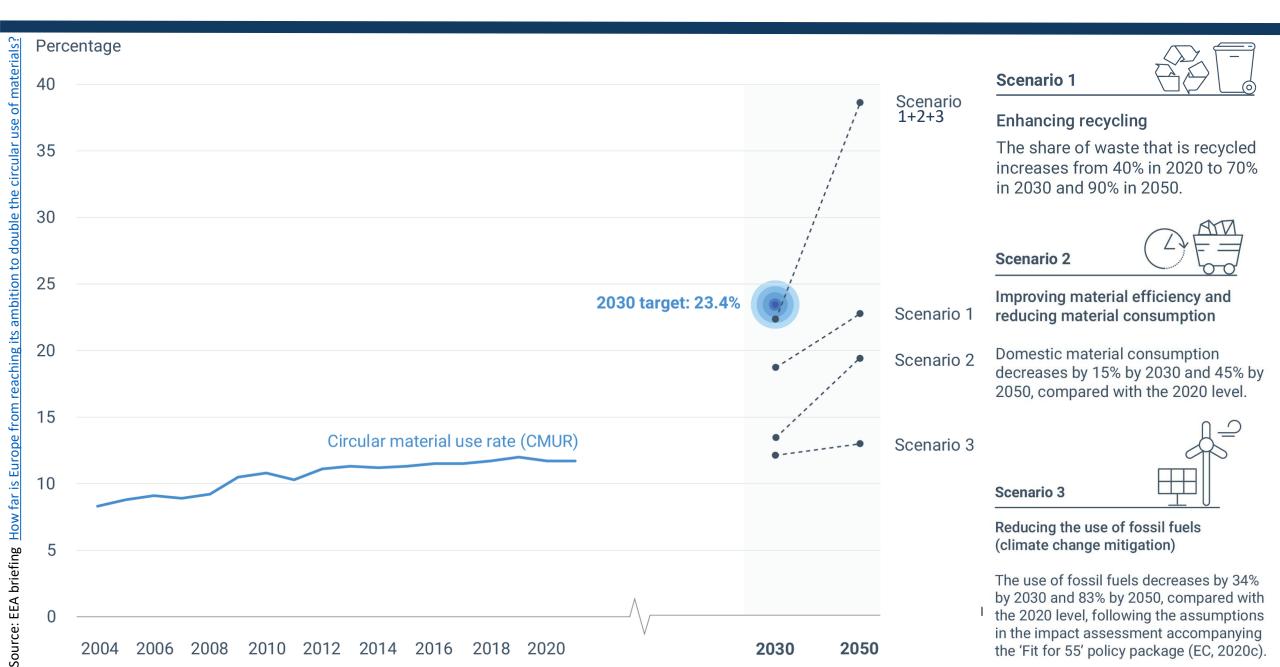






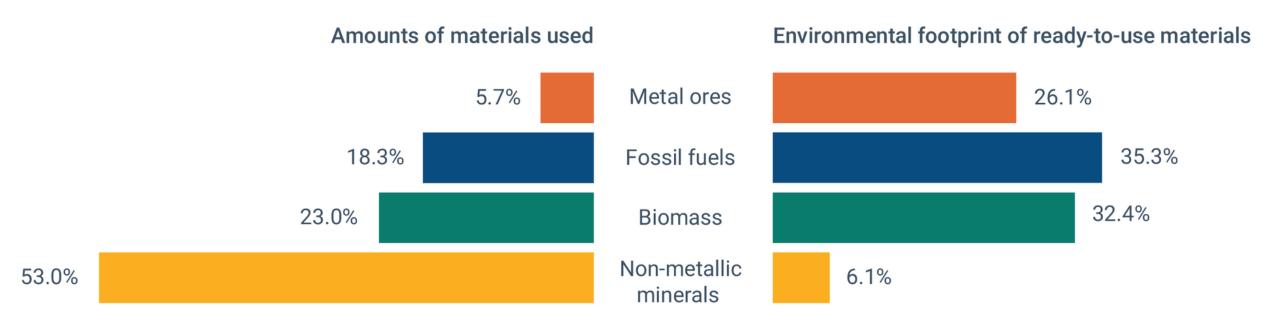


#### Recycling is not enough to double the CMUR



#### The type of material matters more than the amount

#### Amount and environmental footprint of materials consumed in the EU-27, 2019





#### Where do we need to know more?









Circular consumption



**Enabling framework** 



#### **Accelerating the circular transition | Before Use**



**Before Use** 

- 1 Accelerate the uptake of circular design
- Stimulate circular public and corporate procurement
- Shift from income tax towards tax on extracted raw materials
- Leverage the concept of sufficiency to limit unnecessary demand and supply

#### **Accelerating the circular transition | During Use**



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#### **During Use**

- 1 Establish a reuse action programme at EU level
- Build capacity and demand for longer product lifespans
- Encourage consumers to extend product lifespans, rather than buying new

#### **Accelerating the circular transition | After Use**



#### **After Use**

- Develop criteria and a hierarchy to categorise recycling quality
- Introduce temporary supports and catalysts to kickstart secondary raw material markets
- Apply and strengthen extended producer responsibility schemes for more products

#### The example of textile waste in Europe



- > 16 kg/cap of textile waste generated in the EU
  - → 4.4 kg/cap collected separately for reuse and recycling
  - → 11.6 kg/cap in mixed household waste



- Separate collection is mandatory in > half of EU Member States, but mainly targeting the reusable fraction
- Need more sorting and recycling capacities risk of collected textile waste ending up in disposal or export
- Harmonizing definitions and mandatory reporting, essential for data quality, and for setting future targets and monitoring progress



#### **Accelerating the circular transition | Cross-cutting**



#### **Cross-cutting**

- Introduce binding, quantitative circular economy targets, specifically on resource use
- Continue awareness raising, education, financing and building skills for a circular economy

#### Just transition to a circular economy

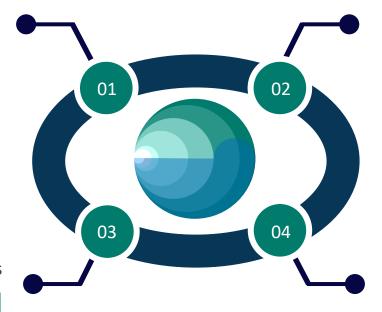


- Circular economy systems are not inherently socially beneficial just because they are circular.
- A successful circular transition requires **full societal engagement** but there is currently limited analysis of social equity, inclusion and accessibility issues.
- The **impact of transitioning to a circular economy** on communities and livelihoods in the global south must be considered to avoid exacerbating existing inequalities.

#### Overall key messages

Considering the inherent impact of resource extraction and processing, and the impossibility of 100% circularity, it is crucial to prioritise the

reduction of resource use.



### Maximising the utility of existing products requires

significantly more intensity of use per product and much longer product lifetimes.

Large-scale success of a circular economy relies

heavily on returning substantial quantities of high-quality secondary raw materials to

productive use.

Europe alone cannot curb unsustainable resource use at planetary scale, therefore, a **robust** 

#### global governance framework

on resource use and circular economy will be essential.





#### Links to recent EEA publications:

- Accelerating the circular economy in Europe State and outlook 2024
- Capturing the climate change mitigation benefits of circular economy and waste sector policies and measures
- The destruction of returned and unsold textiles in Europe's circular economy
- Management of used and waste textiles in Europe's circular economy
- How far is Europe from reaching its ambition to double the circular use of materials?
- **Circularity Metrics Lab**





Thank you!

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