

Why do consumptionbased emissions matter for EU policies?

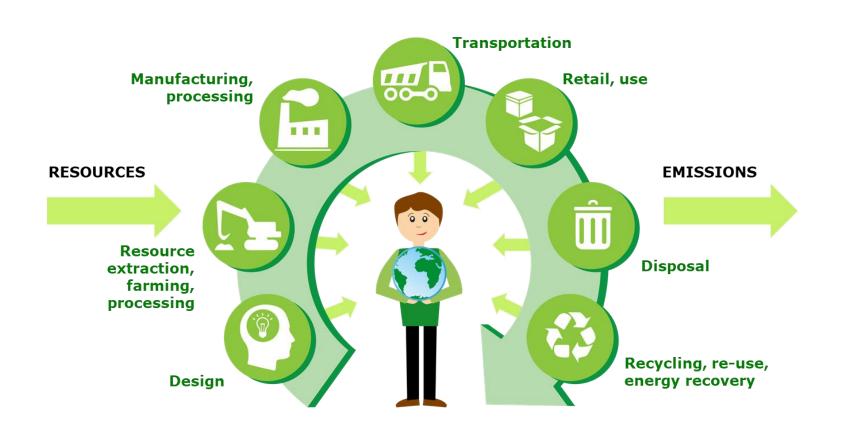
Esther Sanye Mengual

European Commission - Joint Research Centre

Beyond borders: How can the EU become a leader in consumption-based emissions reduction? - 9 Jan 2024

Joint Research Centre

Life cycle thinking: A supply chain perspective





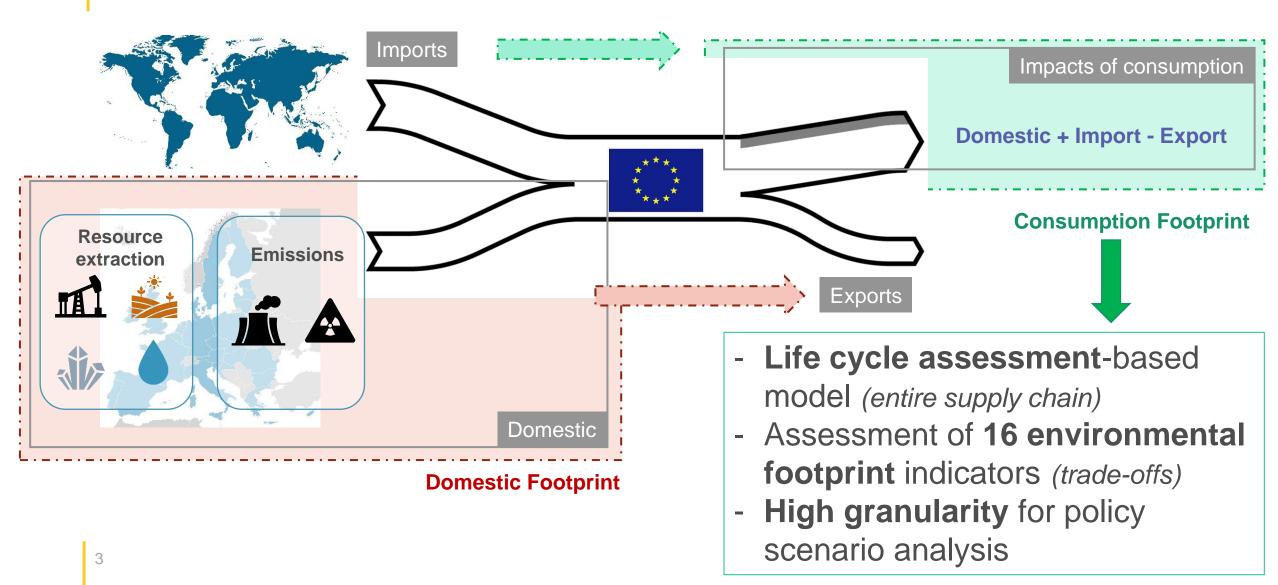
Some part of the supply chain might occur outside the EU



How to account for such impacts?

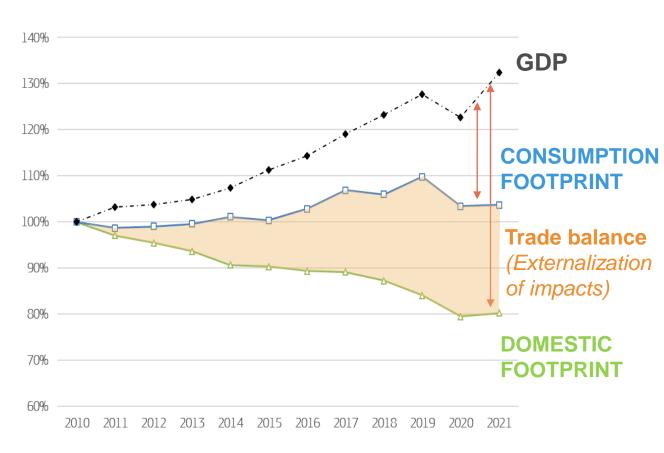


Territorial vs. Consumption impacts: The JRC framework

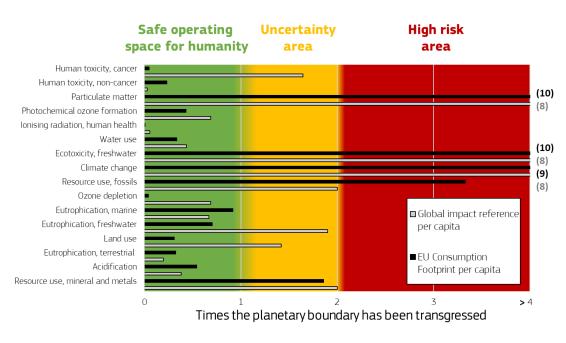


Why is a consumption perspective important?

Environmental impact decoupling from GDP



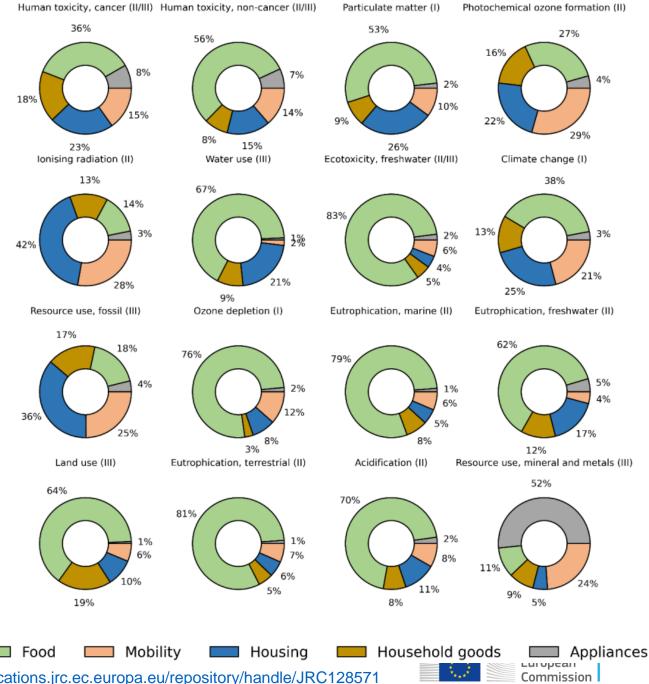
Current consumption patterns transgress the limits of our planet in different impact categories.





The relevance of a multi-dimensional assessment

- Consumption Footprint per capita (2021) by area of consumption
- Areas of consumption have a different role depending on the impact categories
- Differences in consumption patterns can have a different effect

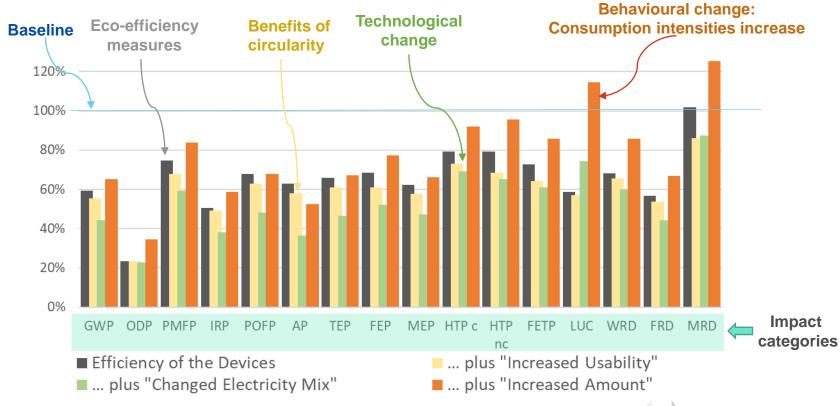


What are the implications of consumption patterns?

Example: Green transitions applied to appliances

Eco-efficiency measures can be offset due to increased consumption.

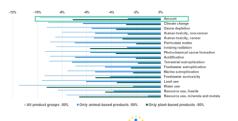
Potential **trade-offs** for specific impacts.







Features of consumption-based footprints

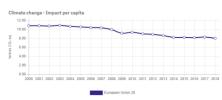


Testing green transitions and policy scenarios

Evaluation of **lifestyles** and behavioural change

Monitoring **trends** over time green transitions

> Hotspot identification



Environmental **impact** decoupling from GDP



Impact on different SDGs

Monitoring of Sustainable Development Goals (especially SDG 12)

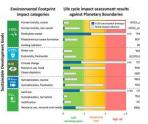




Biodiversity

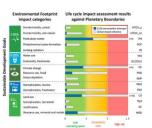
footprint

Comparing Transgressing production and **Planetary** consumption **Boundaries**



stages, substances





Hotspot: Areas of

products, life cycle

consumption,

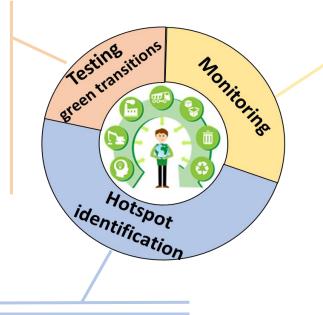


Examples of policy use of consumption footprint

Zero Pollution Outlook

Impact assessment 2030 climate targets

Impact assessment for Food Waste Target Proposal



Impact assessment ecodesign requirements for sustainable (ESPR)

8th Environment Action Programme

Circular Economy Action Plan

Resilience dashboards

Sustainable Development Goals

Zero Pollution (signals)



The Consumption Footprint at national level

Available data at Member State level



Consumption
Footprint
Platform

- Consumption Footprint data for all EU-27 Member States
- Pilot: Dynamic data (time and spatial variation)

Possibility of customization



Member States - Consumption Footprint Tool

- Countries can access JRC data and modify consumption data
- Use of national data sources
- Calculation tool

Pilot study: Germany



Joint
UBA-JRC
study

- Comparison of JRC data with other national data sources (e.g., surveys)
- Need to complement with JRC data (e.g., household goods)
- Similar footprint results



Concluding remarks

JRC Consumption Footprint is being used in multiple EC monitoring frameworks coherence across policies

Data are based on official production and consumption statistics combined with environmental modelling life cycle assessment perspective

Challenges Data quality is key – a joint effort

Opportunities MS-tool allows MS to test alternative data sources

Define and monitor consumption footprint targets

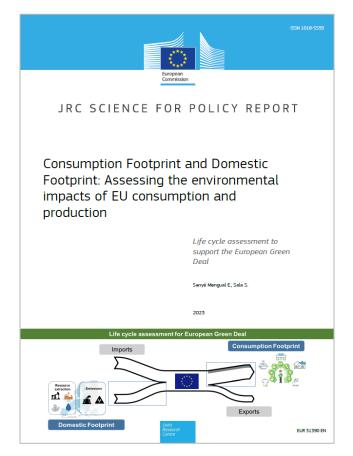
(relation to Planetary Boundaries – science-based)

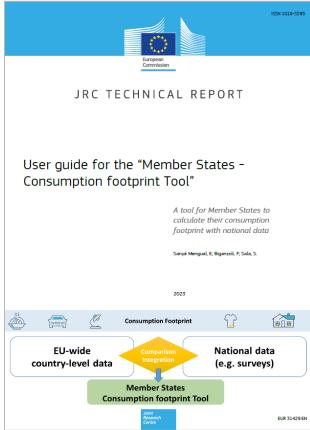
Advantages with other models (alignment with

Environmental Footprint)



Latest publications







Reports available at:

https://eplca.jrc.ec.europa.eu/sustainableconsumption.html
Consumer Footprint Calculator for citizens:
https://eplca.jrc.ec.europa.eu/ConsumerFootprint.html



Thank you

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