



Repair Policy: what's happening and what should be coming next?

INSIGHTS FROM RESEARCH

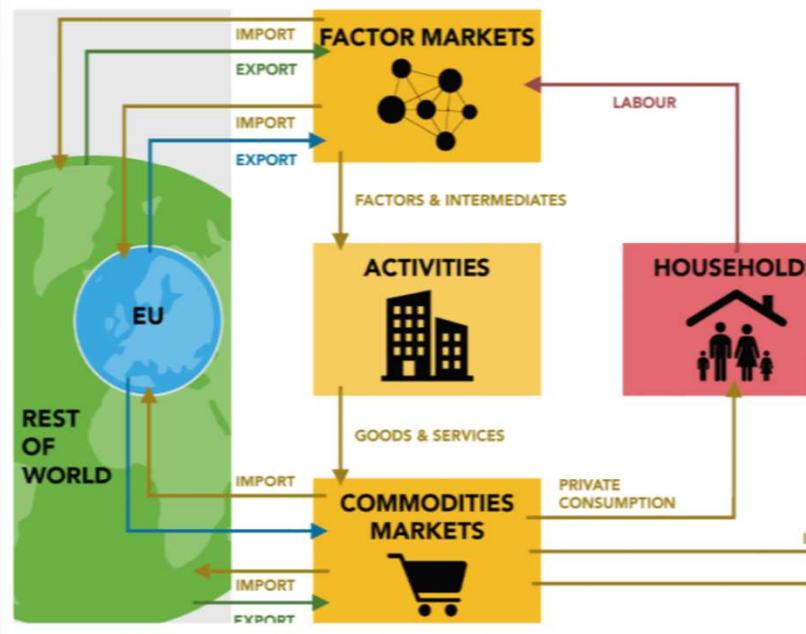
Yoko Dams (VITO)

Agenda

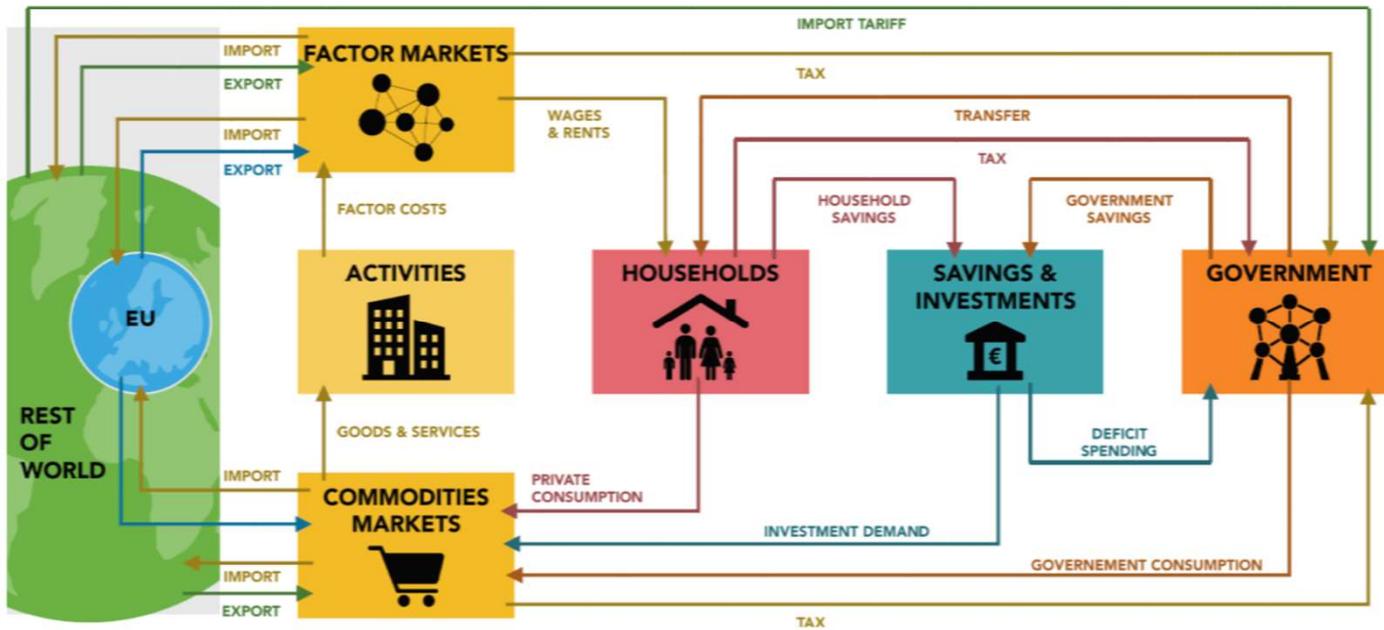
Insights from research

1. Policy preparation:
 - (macroeconomic and impact) modelling tools > scenario development
2. Policy monitoring:
 - EEA Bellagio process
 - Exploration of new emerging data streams (such as citizen-based data)
 - SHAREPAIR Open Repair Data Platform relevance

PRODUCTS, FACTORS AND SERVICE FLOWS IN THE CGE MODEL



FINANCIAL FLOWS IN THE CGE MODEL



Macroeconomic and environmental consequences of circular economy measures in a small open economy

Policy preparation

Scenario: “expansionary fiscal policy”: TVA repair services -4,5%

Direct impact:

- Repair services +8%
- Retail spare parts +0.2%
- Retail new household appliances ~0%

Macro economic effects:

- GDP +
- Household income +
- Investment +
- Imports +

CO2 emissions: net -0.04%



Macroeconomic and environmental consequences of circular economy measures in a small open economy

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Abstract

This paper investigates the economy-wide impact of the uptake of circular economy (CE) measures for the small open economy (SOE) of Belgium, in particular the

Monitoring the Circular Economy – gap

Policy monitoring

- The European Commission and Eurostat have established the “**European Circular Economy Monitoring Framework**” to monitor progress towards a circular economy using available statistical data.
 - PRO: It focuses on aspects of the circular economy related to resource use and waste management.
 - CON: Aspects related to maintaining the value of products and materials for longer — such as design for circularity, repair, reuse and circular consumption — are not yet included.
- The **circular economy action plan** aims to improve the current monitoring system. All key aspects of the circular economy should be included in the monitoring system to fully capture progress and inform decision-makers.

Source: EEA, Bellagio process

Monitoring the Circular Economy

Policy monitoring

The EEA explored the use of new emerging data streams for monitoring purposes.

- Repair as case study looking into:
 - E-governmental data (left): Swedish ROT RUT tax deduction data
 - Citizen based data (right): Open Repair Alliance
 - ✓ Success rates for repair (time series)
 - ✓ Common failures
 - ✓ Number and average age of incoming/repaired/discarded products



Source: EEA ETC report, 2021, "Further exploration of 'big data' and other non-statistical data for CE monitoring"

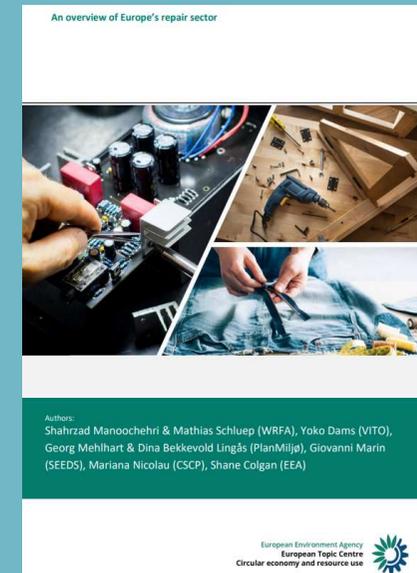
productCategory	Fixed	Repairable	End of life	Number of Records
Coffee maker	7,16	7,30	7,96	
Laptop	6,21	6,26	7,17	
Large home electrical	11,03	11,37	10,35	
Mobile	4,49	3,29	5,73	
Printer/scanner	6,81	6,67	7,60	
Small home electrical	12,01	10,68	8,60	
Tablet	5,38	5,61	6,18	
Vacuum	8,73	7,26	9,08	
Grand Total	7,73	6,73	8,20	

Average age per repair status, per product category

Monitoring the Circular Economy: Europe's repair sector

Policy monitoring

- EEA / Textiles / Furniture
- Sector volume (number of enterprises, jobs,...)
 - Professional repair
 - Voluntary and DIY
- Environmental and social impact
- Barriers (policy, economics, product design)
- Future developments



Source: EEA ETC report, 2022, "An overview of Europe's repair sector"

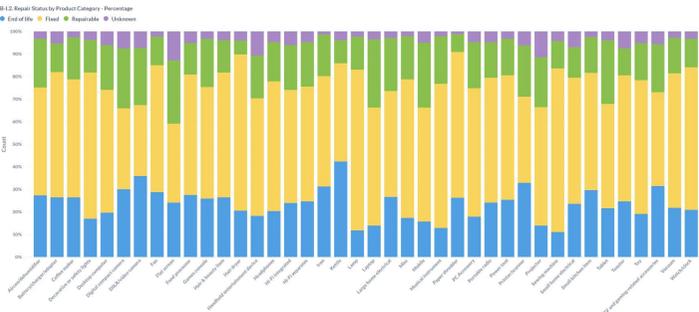
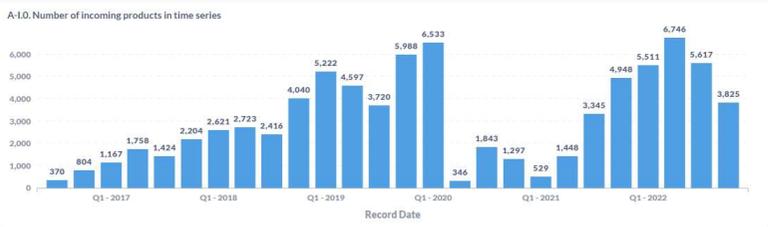
SHAREPAIR Open Repair Data Platform

Policy monitoring

Data pooling:

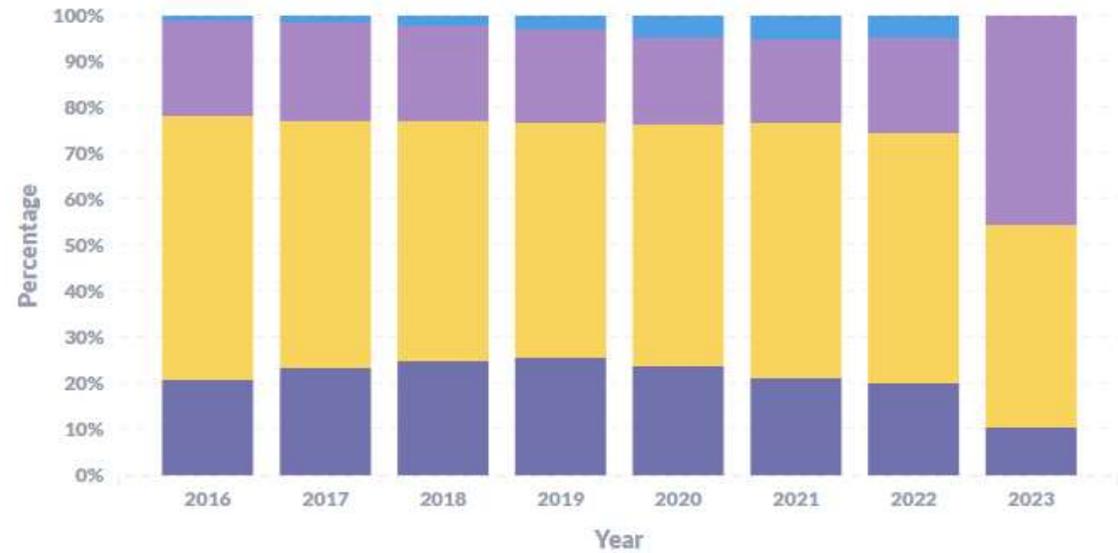
1. Open Repair Alliance Dataset
 - Repair data (< Repair Cafés)
2. Repair Connects
 - Repair data (< Repair Cafés, professionals, DIY)
 - Repair locations data (different types of actors)
3. My MiniFactory (3D print designs)
4. IFIXIT (guides)

And **visualization**: <https://ordp.datascienceinstitute.ie/metabase/>



A-1.0.1. Percentage of Repair Status in time series

● End of life ● Fixed ● Repairable ● Unknown





Questions?

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