

#### European Social Partners' project on Circular Economy Cluster seminar France - Greece - Italy - Poland

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## What is Circular Economy?



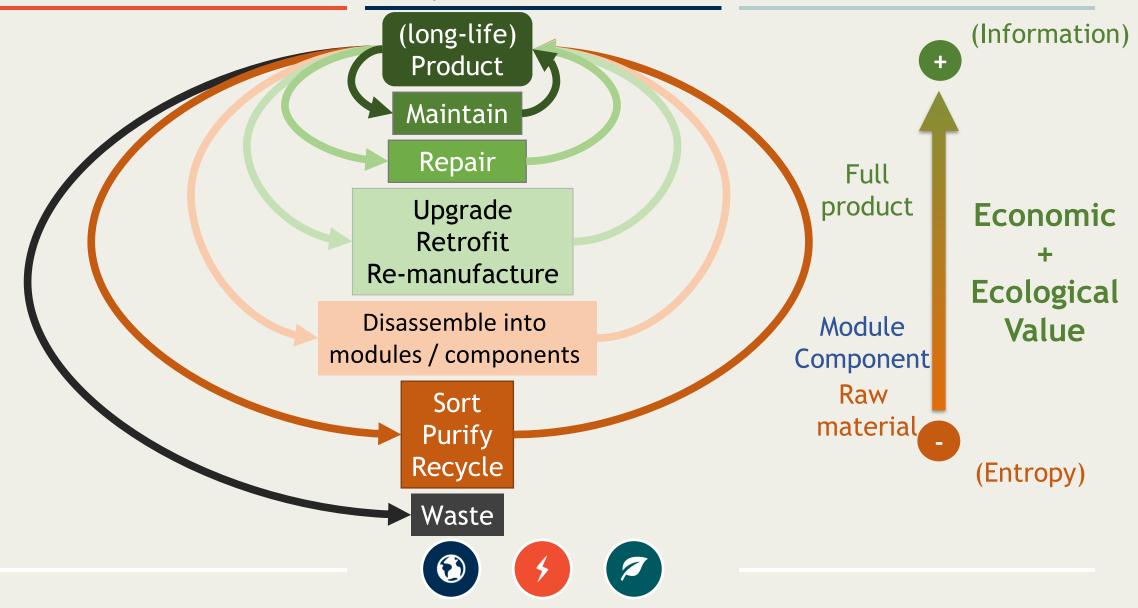
• European Commission "Circular Economy Action Plan" of 2015 definition:

An economy "where the value of products, materials and resources is **maintained** in the economy **for as long as possible**, and the generation of waste minimised".

• A central component of the EU's efforts to develop a sustainable, low carbon, resource efficient and competitive economy



### Circular Economy: illustration Trinomics -



#### Transition to a Circular Economy



#### • Product design & manufacturing for:

Longer lifetimes;

- More maintenance, repair, upgrade, re-use;
- Less frequent replacement.

#### • More intense use via:

○ Sharing;

- Lending or leasing models;
- Fewer units to serve the same market.

#### • Higher proportion in products of:

- Recycled materials;
- Sustainably-sourced renewable materials;
- Less primary, non-renewable raw materials.

• More waste being **recycled** or **prepared for re-use**.



#### Circular Economy Action Plan 2015 Trinomics –

"Closing the loop - An EU action plan for the Circular Economy" COM(2015) 614 final

- Requirements on products: durability, repairability, recyclability;
- Extended Producer Responsibility at end of life;
- Guidance on and promotion of industrial symbiosis;
- Research on premature obsolescence;
- Circular Economy criteria in Green Public Procurement;
- More ambitious **recycling targets** for municipal waste;
- Quality standards for secondary raw materials;
- Reflection on the handling of legacy hazardous substances in products being recycled;
- Plastics: ban of some single-use items;
- Food waste, Critical Raw Materials, construction and demolition waste, biobased materials;
- Research & Innovation.



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Setting the stage

#### Circular Economy Action Plan 2020 Trinomics –

Circular Economy Action Plan - For a cleaner and more competitive Europe

- Sustainable Product Initiative on Eco-design + product passport + support for circular business models;
- Right to repair, Substantiating green claims;
- <u>Mandatory</u> Green Public Procument criteria;
- Circularity criteria in revision of Industrial Emissions Directive;
- **Priority application** to ICT, batteries, packaging, plastics, textiles, construction, food, water, nutrients;
- Higher targets for recycling of **municipal waste**;
- Requirements for recycled material content in products;
- Restrictions to extra-EU export of waste.



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Increasing the ambition





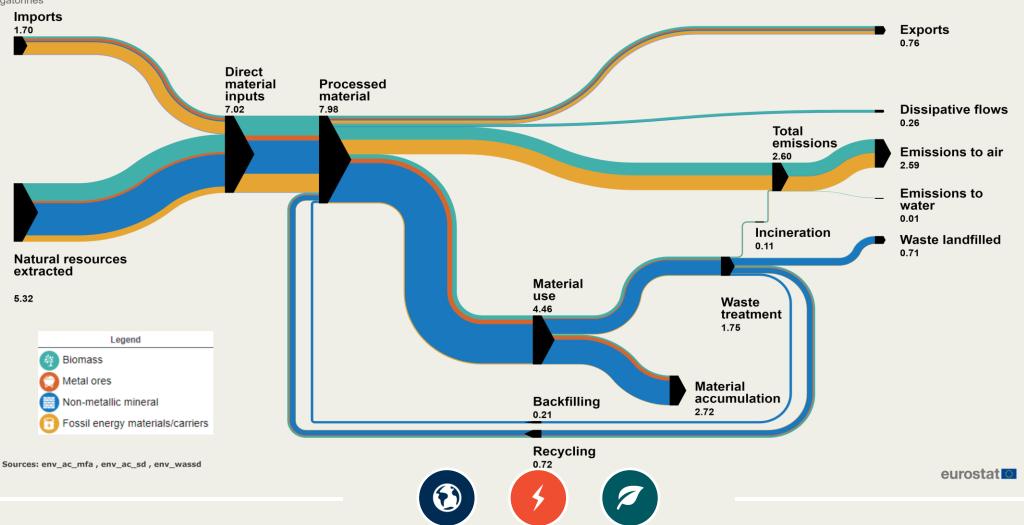


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#### Material flow diagrams 2017 for

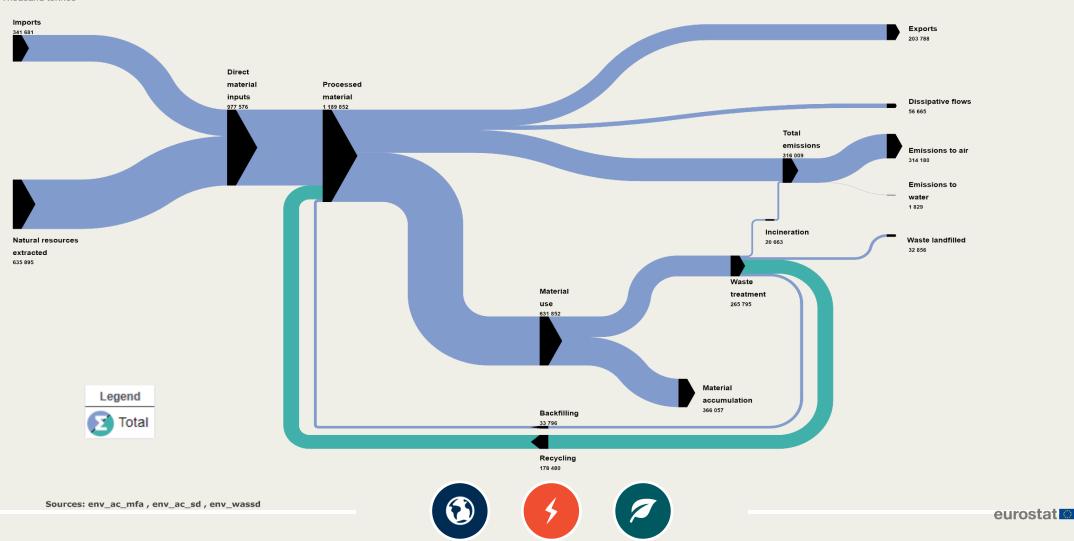
European Union (27 countries) Gigatonnes





#### Material flow diagrams 2018 for

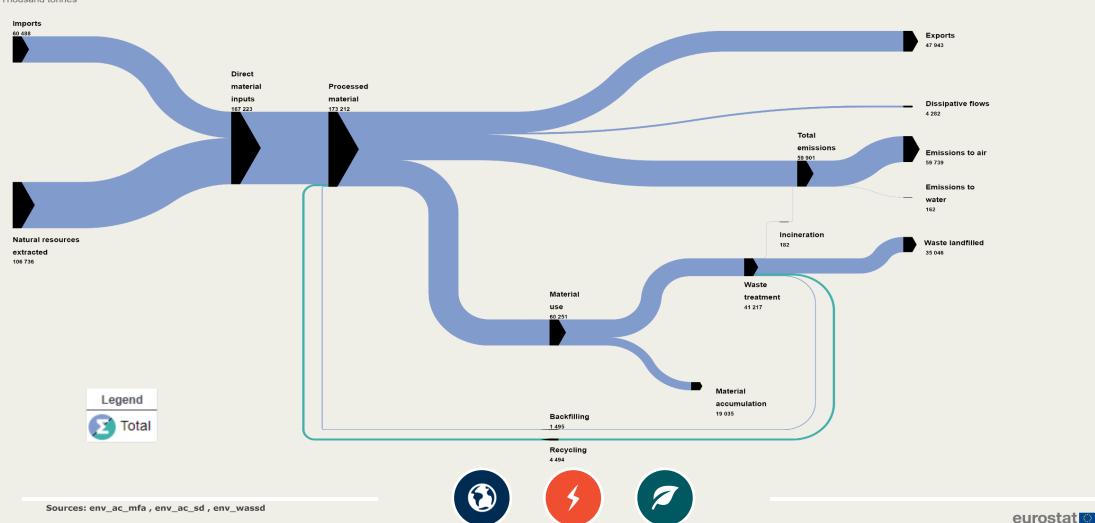
France Thousand tonnes







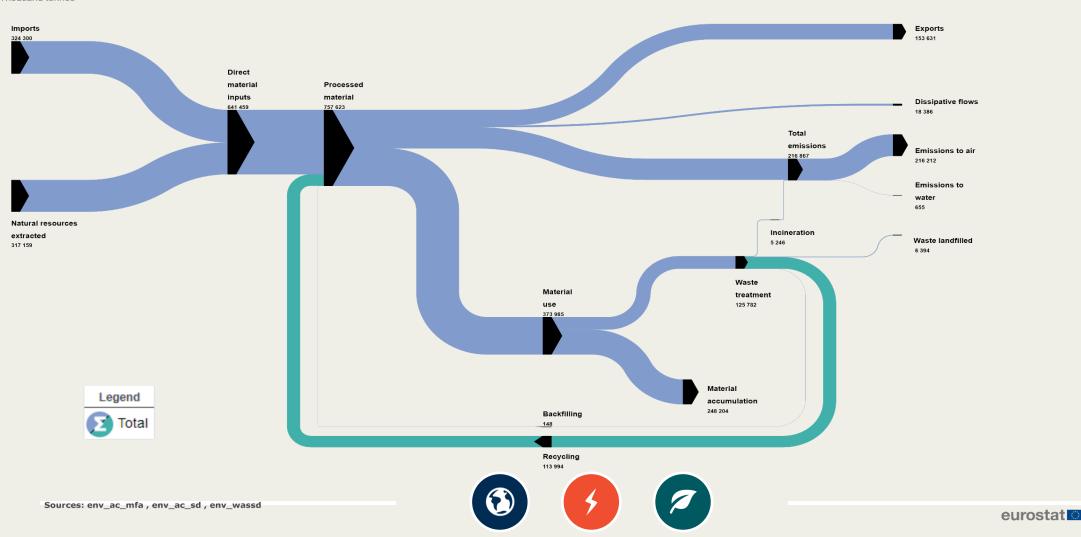
Greece Thousand tonnes



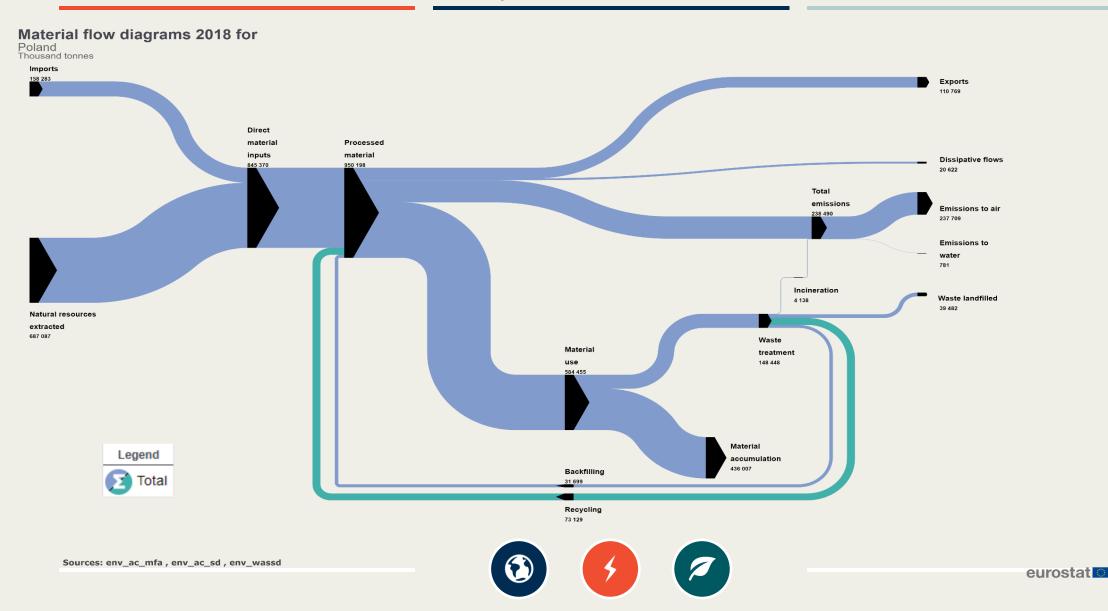




Italy Thousand tonnes



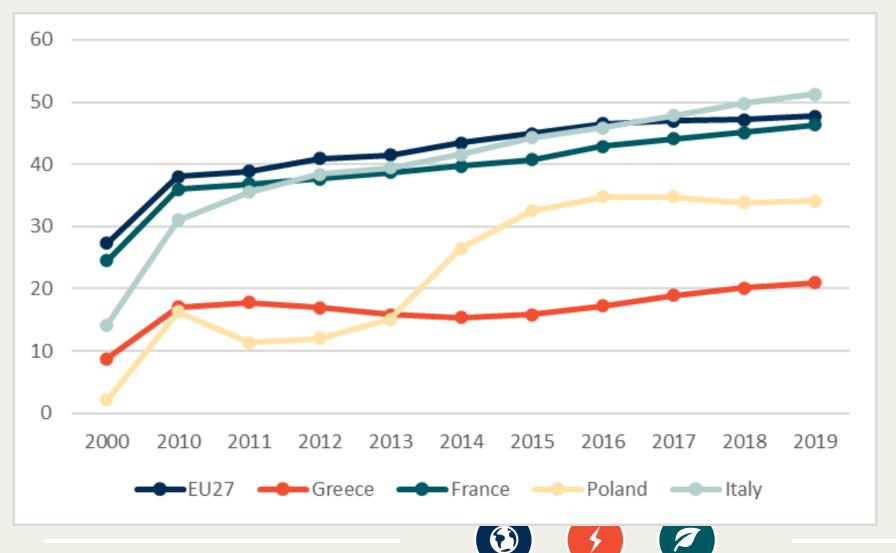






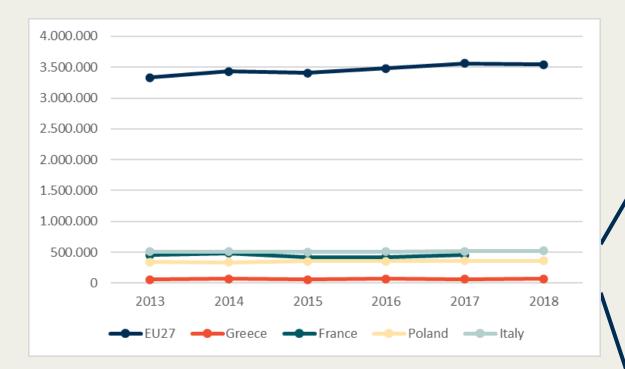
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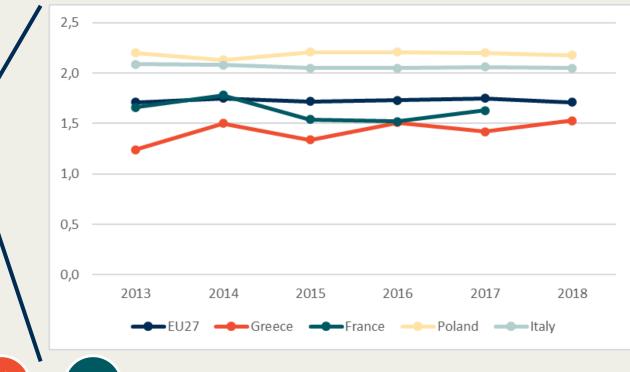


Recycling rate of municipal waste in %





Number of persons employed in circular economy sectors (absolute values: left; % of workforce: below)





# Impacts on employment volume and competitive position



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# Employment volume and competitive position



- Employment volume: Convergent quantitative studies
  - Limited, but positive, overall impact: + 250 to 700 thousand jobs for EU;
  - $\circ~$  Sector contrasts:
    - Positive: repair, maintenance, recycyling, re-manufacturing;
    - Negative: extractive, construction, durable goods, [retail].
- Competitive position: Interviews
  - $\circ$  **Positive** impact at company level
  - $_{\odot}$  Higher attractiveness of sectors for young + qualified workers
  - Circular Economy meets expectations of customers (construction materials, chemicals, basic metals)
  - Circular Economy meets expectations of qualified workers (waste management)
  - Circular Economy requirements can create market opportunities for EU manufacturers (batteries)





# Impacts on qualifications & skills, forms & organisation of work, health & safety



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# Qualifications & skills, forms & organisation of work, health & safety



- Qualifications & skills: Convergent studies + interviews • Higher requirements:
  - Work on irregular input, adaptability (using recycled materials);
  - Reliability, quality (in design + manufacturing for longer-life products);
  - Complex equipment (automated sorting + recycling);
  - Increase in mid-level qualifications (repair, maintenance)
- Work relationships: concerns expressed by workers
  - Change in economic activity towards circularity => potential change in applicable collective agreement
  - $_{\odot}$  Request by workers: to be discussed in Social Dialogue



# Qualifications & skills, forms & organisation of work, health & safety



- Forms & organisation of work: limited information
  - Concerns for specific cases (sharing economy; informal economy)
  - $\odot$  Start-up model of new businesses
  - $_{\odot}$  "Advanced" companies for Circular Economy: also on social dimension
- Health & safety: Convergent studies + interviews
  - Handling of legacy hazardous substances;
  - O Waste management;
  - O Usage of secondary raw materials (e.g. dust from recovered construction materials)





Thank you for your attention, please contact us for more information



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