Circular Economy in Portugal: policy & practice







European Week of Regions & Cities 2018

Key numbers

Urban waste production pc (2014)

PT 453 kg/inhab

EU 478 kg/inhab Goal PT 2020 10%

Urban waste landfill rate (2014)

PT 34% EU ~25% Goal EU 2035 10%

Urban waste recycling rate (2014)

PT 30.4% EU 43.7% Goal EU 2025 - 55% 2030 - 60% 2035 - 65% GHG emissions pc (2014)

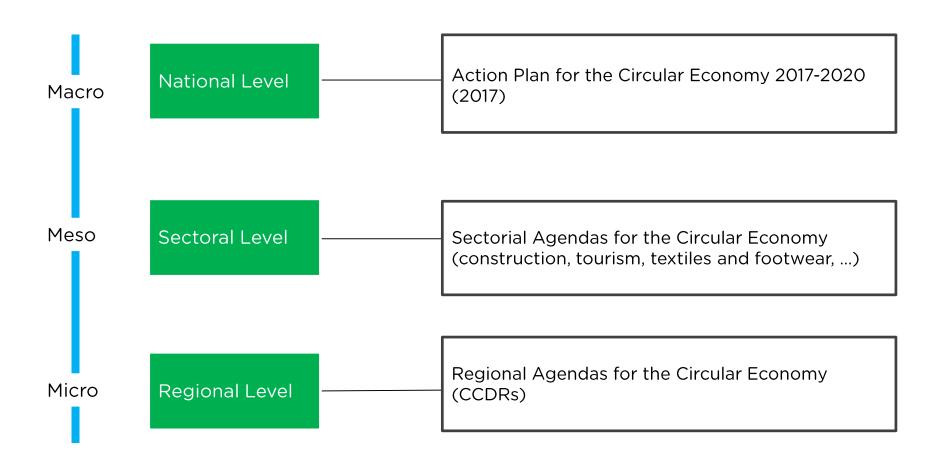
PT 6.48 tCO₂/inhab

EU 8.72 tCO₂/inhab Goal EU 2020 - 20% 2030 - 40%

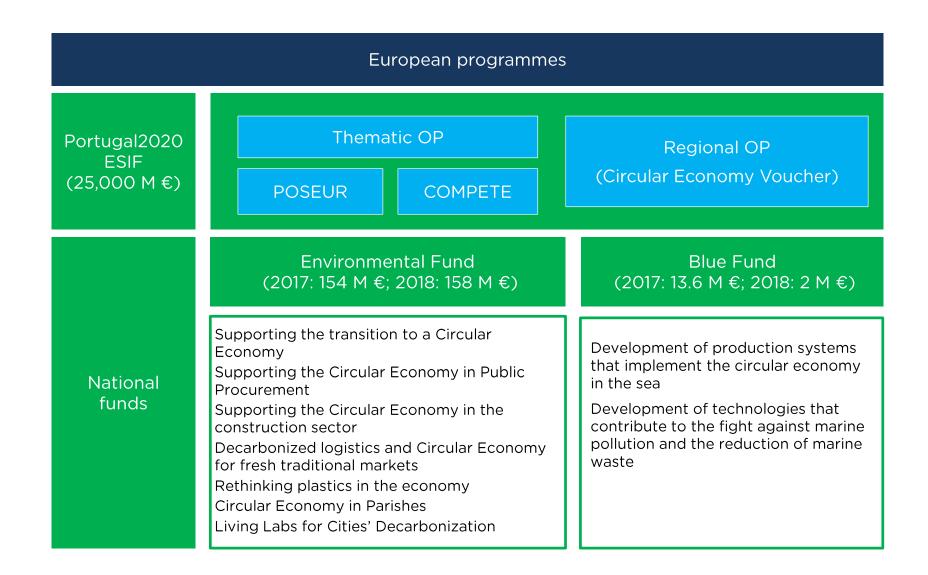
Share of renewable energy (2016)

PT 28.5% (2015) EU 16.7% (2015) Goal PT 2020 - 31% Goal EU 2030 - 27%

Policies & strategies



Funding sources



Regional agendas



Towards circular cities

- Growing importance of cities "cities are ideal testing grounds for circular economy models" (WEF, 2018)
- Emerging urban strategies and action plans: Roadmap for the Circular Economy of Porto; Mapping Circular Economy in Lisboa
- Emerging participation in European networks and projects: Porto (EU Urban Agenda – Partnership on Circular Economy); Lisboa (FORCE – Horizon 2020)
- Some smart city projects with an important technological dimension (ICT, big data) promoted by municipalities and companies
- Several small scale and high impact projects promoted by municipalities and parishes

Smart waste management system - Cascais Municipality



Installation of sensors in waste containers and vehicles, and development of an online management platform

Collection and analysis of real-time data to support decision-making: (ex. route optimization)

Decrease the number of vehicles in circulation (180,000 km), reduction of CO_2 emissions (320 ton/year), 600,000 euro savings per year

Pay-as-you-throw system - Guimarães Municipality



Pilot project in the historic center

Citizens only pay for the garbage they produce, encouraging the recycling of their solid waste

Use of electric vehicles for waste collection

34% decrease in unsorted waste and 126% increase of recyclable waste

Waste coin - Campolide Parish (Lisboa Municipality)



Increasing waste recycling rate

Change 1 kg of paper or plastic waste for a "waste coin" (1 €) to be used in local commerce (coffee, fruit, ...)

80 adherent organizations (restaurants, coffee shops, drugstores)

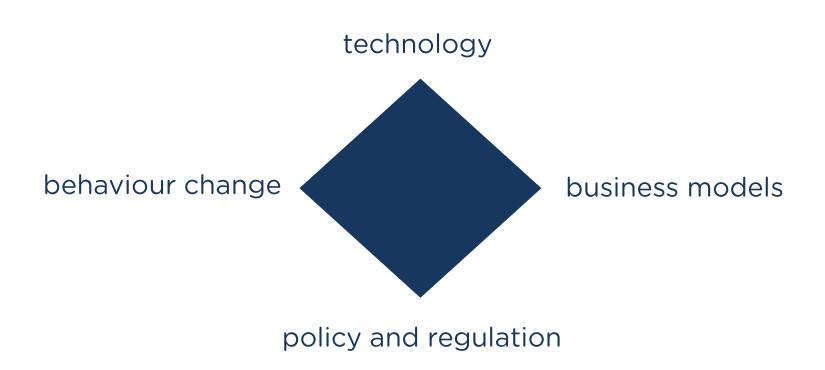
JUNTAr PASSOs - Passos Parish (Fafe Municipality)



Transformation of plastic waste into urban furniture (tables, walkways, signage,...) by a recycling company in collaboration with the community, to be placed in the urban fabric

Final note

Digital transformation and collaborative methodologies as tools to achieve circular cities



Contacts

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