Research and Innovation

Resource Efficiency

Eco-Innovation

Circular Economy

HORIZON 2020

The Framework Programme for Research and Innovation
FP7 Environment theme

- 2011-2012 - calls on 'Eco-innovation' and on 'Improving resource efficiency' with a total budget of 100 MEUR

- 2013 – Call on 'Turning waste into a resource' and 'Eco-innovative Demonstration Projects', with a total budget of about 50 MEUR
SOME EXAMPLES

Turning waste into resource

In total 10 projects

- PlasCarb - *Transformation of food waste into graphitic carbon and renewable hydrogen*

- ResCoM - *Resource conservative manufacturing – closed-loop product systems*
Societal Challenge 5: Climate action, environment, resource efficiency and raw materials

Sub-activity 5.4 Transition towards a green economy through eco-innovation

WP2014-2015

- WASTE focus area 131 M€
- SMEs 36 M€
On the way to a more systemic approach

- incremental innovations
- single industries
- **silos**: low interactions between economic sectors
- **linear models**: extraction-process–disposal
- rebound effects

- no longer linear
- extended life time
- cross-sectors
- multi-stakeholders
- innovation in all forms
- design strategies
- new business models

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Research and Innovation Role in CE

Create the right environment for innovation & investments

- **DEMONSTRATING** the opportunities for moving towards a circular economy through the **Focus Area "Industry 2020 in the Circular Economy"**

  - **CIRC-1-2016**: Design for circular value & supply chains (large-scale demonstration)
  
  - **CIRC-1-2017**: Systemic services for the circular economy
  
  - **CIRC-4-2016**: New models and economic incentives for CE business
Research and Innovation Role in CE

Create the right environment for innovation & investments

- **REGULATORY INNOVATION**: addressing regulatory barriers to circular economy activities or business models, through the implementation of Innovation Deals

- **FINANCIAL INNOVATION**: Assessment of the possibility of launching a platform together with the EIB and national banks to support the financing of the circular economy and supporting FINANCING TOOLS and ADVISORY SERVICES through InnovFin