

Waste: A resource to recycle, reuse and recover raw materials



Overall indicative budget: EUR 73.00 million from the 2014 budget, and EUR 58.00 million from the 2015 budget

| Topics | 2014 EUR million | 2015 EUR million |
|-----------------------------|---------------------|---------------------|
| WASTE-2-2014, WASTE-7-2015 | 9.00 | 14.00 |
| WASTE-3-2014 | 14.50 | |
| WASTE-4-2014/2015 | 4.50 | 4.00 |
| WASTE-5-2014 | 1.00 | |
| WASTE-1-2014, WASTE-6a-2015 | 44.00 | 30.00 |
| WASTE-6b-2015 | | 10.00 |

WASTE-1-2014

Moving towards a circular economy through industrial symbiosis



Challenge/scope

- Demonstrating large-scale systemic innovations with the aim of turning waste from one industry into useful feedstock for another one
- Developing reliable and harmonised data for the estimation of composition, patterns of supply and quantity of wastes generated
- Demonstrating innovative processes and services, that increase product life-spans, enable product and material reuse, recycling, recovery, and reduce generation of waste along product chains
- Coordination between a variety of stakeholders and an increased awareness of producer responsibility

WASTE-2-2014

A systems approach for the reduction, recycling and reuse of food waste

Challenge/scope

- Developing a better understanding of business and consumer behaviour in relation to waste generation, handling, reuse
- Optimising the performance of the whole food system, including packaging, catering and consumers
- Reducing food waste and packaging materials generated in the food system and investigate ways of converting food waste into value-added by-products
- Developing a methodology for evaluating food waste
- Developing a database/inventory of recyclable materials, valuable molecules, substances and materials originating from waste and by-products



WASTE-3-2014

Recycling of raw materials from products and buildings



Challenge/Scope

- Complex products and buildings contain many valuable raw materials minerals and metals, wood-fibre based materials, etc.
- Industrially-driven multidisciplinary consortia
- Developing innovative technological solutions and prove the concept and feasibility (TRL 5-6) for
- Sustainable recycling and recovery of raw materials from:
 - complex end-of-life products;
 - construction and demolition (C&D) waste, particularly from the most promising objects, such as deconstruction of non-residential buildings.

WASTE-4a-2014

Towards near-zero waste at European and global level

An EU near-zero waste stakeholder platform



Challenge/Scope

- Harmonising technologies, processes and services, to profit from benchmarking, sharing best practices, and gender mainstreaming, and to use or develop standards
- Creation of a stakeholder platform for defining an integrated strategic research and innovation agenda, including systemic eco-innovation and business models, for waste prevention and management in the EU
- Defining areas of waste technologies to be clustered
- Synergies with relevant EU Initiatives on waste should be considered foster
- Identifying new market opportunities

WASTE-4b-2014

Towards near-zero waste at European and global level

Global waste dimension



Challenge/Scope

- Pooling of resources and supporting the definition of global objectives and strategies
- Potential for exporting eco-innovative solutions and seizing new markets
- Development of a strategy for global dissemination and uptake of European waste management best practices, benchmarks and standards
- Raising awareness on behavioural, social, political, cultural and institutional aspects in solid waste management
- Contributing to Rio+20 and UNEP's Global Partnership on Waste Management and follow up of on-going international activities such as the EU-Africa pilot project on waste

WASTE-4c-2014

Towards near-zero waste at European and global level

Secondary raw materials inventory



Challenge/Scope

- Creating an EU network of relevant institutions (such as environmental agencies, research organisations, etc.)
- Developing an inventory component of an EU knowledge base with data and information on secondary raw materials + their flows, maps and evaluation of European stocks.
- Improve secondary raw materials data collection
- Different types of waste (such as mining waste, wood-based, industrial, municipal waste, waste electrical and electronic equipment (WEEE) and others)
- National and regional level in the EU and Associated Countries
- Compatibility with relevant EU or global standards and interoperability with national and other relevant databases

WASTE-5-2014

Preparing and promoting innovation procurement for resource efficiency



Challenge/Scope

- Fostering lead markets and generate critical mass of demand for eco-innovative solutions by innovation-oriented public procurement
- Providing an important boost to resource efficiency and to waste prevention, reuse and recycling
- Establishing a buyers' group of public procurers to overcome the fragmentation of demand for eco-innovative solutions and to reinforce their early deployment
- Drawing common specifications and preparing for a joint or coordinated procurement
- Assessing and testing the feasibility of launching a joint or coordinated public procurement of innovation (PPI)

Only indicative text for topics:

WASTE-4d-2015

Raw material partnerships;

WASTE-6-2015

Promoting eco-innovative waste management and prevention as part of sustainable urban development

and

WASTE-7-2015

Ensuring sustainable use of agricultural waste, co-products and by-products

are available in Work Programme

HORIZON 2020





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**Thank you
for your attention!**

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www.ec.europa/research/horizon2020