

**EU STRATEGY FOR THE DANUBE REGION (EUSDR)
SECOND STAKEHOLDER SEMINAR
WATER QUALITY (PA4) AND THE ENVIRONMENTAL RISKS (PA5)**

"EUROPEAN FUNDING OPPORTUNITIES IN THE WATER SECTOR"

**HORIZON 2020
SOCIETAL CHALLENGE 5**

**"CLIMATE ACTION, ENVIRONMENT, RESOURCE EFFICIENCY AND
RAW MATERIALS"**

Horizon 2020: addressing Europe's

- **Investing in research and innovation 2014-2020**
- **Budget of €77 billion**
- **Contributing to the Juncker Commission's policy agenda** as a core component of **Europe 2020, Innovation Union & European Research Area**
 - ▣ Investing in jobs and growth
 - ▣ Addressing people's concerns ('societal challenges')
 - ▣ Strengthening the EU's global position in R&I
- **Coupling research to innovation to maximise impact**

Societal Challenge 5: Climate action, environment



Objective: *"to achieve a resource – and water – efficient and climate change resilient economy and society, the protection and sustainable management of natural resources and ecosystems, and a sustainable supply and use of raw materials, in order to meet the needs of a growing global population within the sustainable limits of the planet's natural resources and eco-systems."*

Societal Challenge 5: focus for 2016-17



- ✓ **Increased emphasis on delivering innovative solutions**
- ✓ **Transformative agenda**
- ✓ **Systemic approach to innovation**
- ✓ **Unlocking private and public investment in future solutions**
- ✓ **Large-scale demonstration projects with replication potential**

Societal Challenge 5: key objectives for 2016-2017

Climate action

- Climate services
- Low-carbon Europe
- Arctic dimension

Raw materials

Mainstreaming
water R&I

Nature-based solutions:

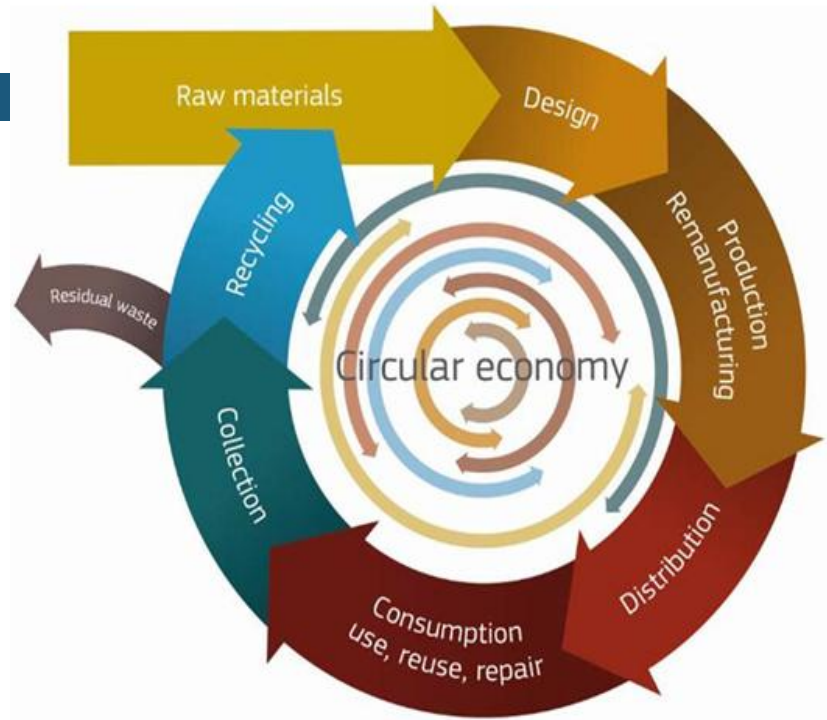
- for territorial resilience
- for sustainable cities

Systemic eco-innovation for
a circular economy

Sustainable growth by harnessing:

- Earth observation data
- Cultural heritage

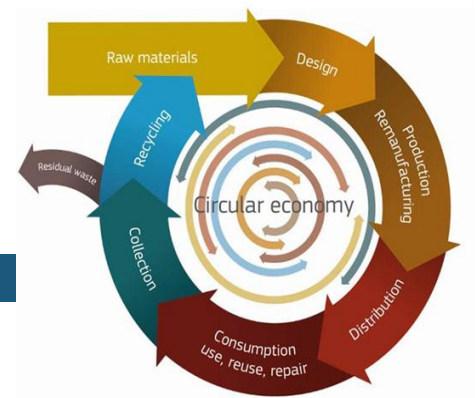
ECO-INNOVATION



...for a

CIRCULAR ECONOMY

The starting point...

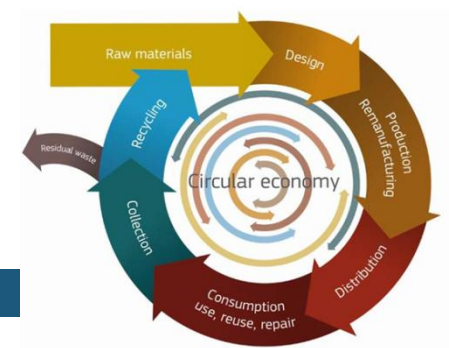


1. Fighting and adapting to climate change
2. Sustainably managing natural resources and ecosystems
3. Sustainable supply of non-energy and non-agricultural raw materials

- Foster all forms of innovation
- Strengthening eco-innovation technologies, processes, services and products
- Impacts on society, economy, environment
- Across- sectors

4. **Transition towards a green economy through eco-innovation**

The first steps...



Implementation

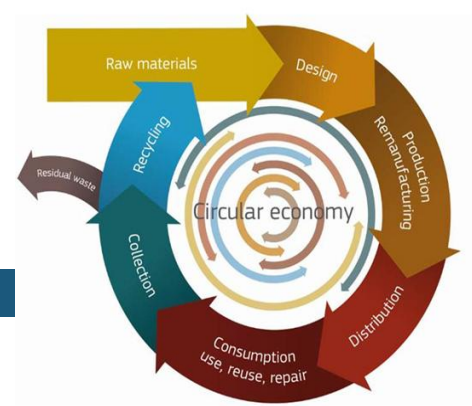
1. Focus Area **WASTE** 131 M€
2. Focus Area **WATER** 163 M€
3. **SMEs** 36 M€

Outcomes

- Innovation actions on industrial symbiosis, across several industrial sectors & in support of EIP priorities
- Research actions (water & climate)
- Coordination actions & public procurement
- ERA-NET Cofund
- Wide range of stakeholders

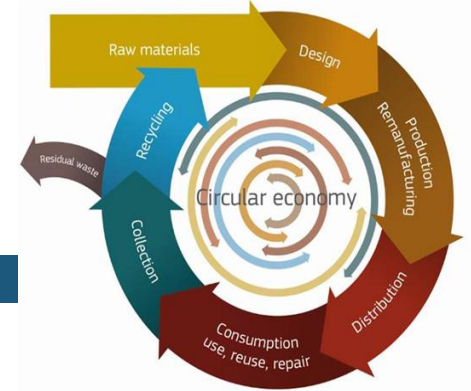
Transition towards a more system approach to innovation ... Circular models

...along the way...



- ✓ **Stakeholder consultation** for Societal Challenge 5
 - > systemic and interdisciplinary solutions
- ✓ **Advisory Group**
 - > all forms of innovation, systemic eco-innovation across sectors, services, closed loop
- ✓ **Group of experts** on 'Systemic Approach to Eco-Innovation'
 - > systemic innovation, markets of the future, new business models, open space for innovation, need for demonstrators
- ✓ **Call for Ideas**
 - > large scale demonstrators

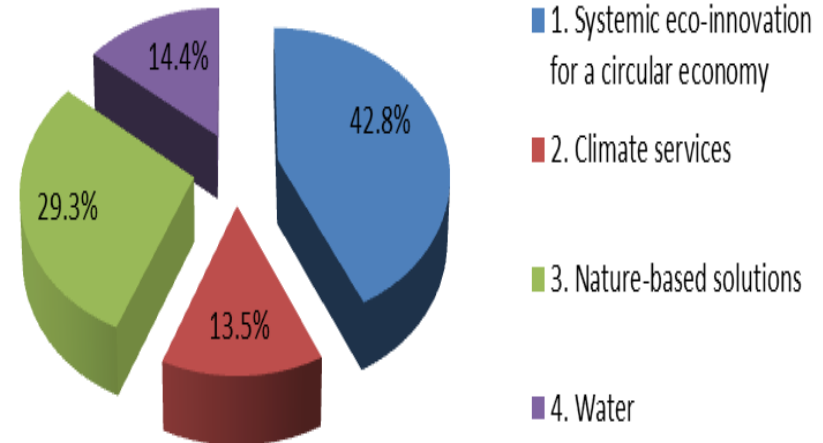
...along the way...



Call for Ideas large-scale pilot/demonstration projects

451 ideas received

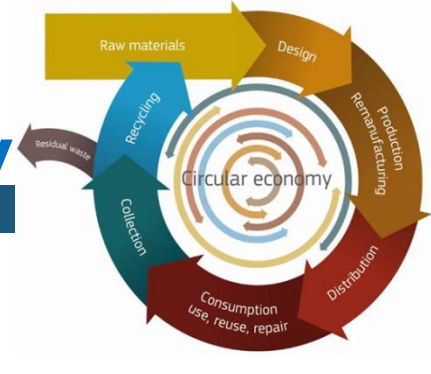
- more than 42% addressed the area 'Systemic eco-innovation for a circular economy'
- Large enterprises and SMES more than 22% of submissions



https://circabc.europa.eu/sd/a/07b4b20e-c995-478f-ac00-1dfc1ca8019b/Report_outcome_call

...a new Focus Area: Industry 2020 in the Circular Economy

Cross-cutting call



Where you can find it?

- ✓ Horizon 2020 - Cross-cutting activities (Focus Areas)
 - General introduction
 - Circular Economy section

What is inside?

- ✓ Description of **Systemic Eco-innovation**
- ✓ Topics for SC5 in 2016 – total budget 84.5 M€
- ✓ Topic descriptions
- ✓ Topics open: 10 Nov. 2015
- ✓ First deadline: 8 March 2016

Water



- ✓ mainstreamed through WP 2016-2017, as part of the systemic approach
- ✓ harnessing strong potential for European industry to become global market leader
- ✓ continuity with 2014-2015 Focus Area call on 'Water Innovation: Boosting its value for Europe'

Water



- **Topics in call 'Greening the Economy'**
- **Total indicative budget for these topics in 2016: €4M**
- **Topic SC5-11-2016:**
 - **opens 10 Nov. 2015**
 - **deadline 8 March 2016**
- **Topic SC5-12-2016:**
 - **opens 15 Oct. 2015**
 - **deadline 26 January 2016**

SC5- WATER Work Programme 2016

Water: a global research and innovation challenge

par excellence

- ✓ SC5-11-2016: Supporting international cooperation activities on water
- ✓ SC5-12-2016: Food systems and water resources for the development of inclusive, sustainable and healthy Euro-Mediterranean societies

SC5-11-2016

Supporting international cooperation activities on water

Specific Challenge:

Enhance the opening of the Water JPI to international cooperation

Scope (see call text):

- Create framework and a permanent dialogue
- Investigate activities to align with and support the SDG
- Prepare strategical flagship initiatives on water
- Develop the knowledge base,
- Knowledge transfer, wider dissemination and take-up of research findings
- Strengthen links with WssTP

SC5-11-2016

Supporting international cooperation activities on water

Expected impact (see call text):

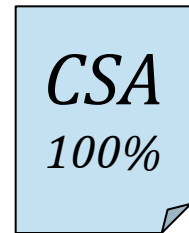
- Enhance scale and ambition of water research and innovation activities
- Increase efficiency of the use of European resources
- Valorise European know-how (water solutions at global level)
- Make JPI Water an attractive partner for global cooperation in research and innovation (Belmont Forum)
- Strengthen JPI role in supporting EU policy implementation and
- Fostering EU's position in global water-related negotiations and fora.

SC5-11-2016

Supporting international cooperation activities
on water

Deadline: 08-03-2016 @ 17:00:00 (Brussels)

Type of action: Coordination and Support Action



Indicative budget: 2 M€

Recommended EU contribution/project: 2 M€

SC5-12-2016

Food systems and water resources for the development of inclusive, sustainable and healthy Euro-Mediterranean societies

Specific Challenge:

Integrating various related on-going joint programming activities on food and water into a large scale coherent programme with well- defined objectives and implementation actions.

Scope (see call text):

Bring together the main national research funding owners and/or managers involved in the PRIMA joint programming process (EU/ non-EU) around a jointly designed Strategic Research Agenda with appropriate governance and implementation structures

Critical Mass of players

Ensure appropriate flexibility

SC5-12-2016

Food systems and water resources for the development of inclusive, sustainable and healthy Euro-Mediterranean societies

Expected impact (see call text):

- Reinforced coordination of food systems and water research programmes within a long term partnership
- Reducing fragmentation of efforts;
- Facilitating consultation, awareness and commitment;
- Supporting sustainable economic and social development in the Mediterranean;
- Unlocking the innovation potential in water management and use for food security;
- Optimising the launch and implementation of a long term partnership, ensuring appropriate funding from the participating countries and leverage effect.

SC5-12-2016

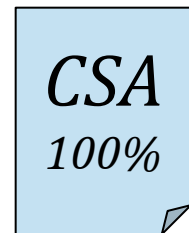
Food systems and water resources for the development of inclusive, sustainable and healthy Euro-Mediterranean societies

Deadline: 26-01-2016 @ 17:00:00 (Brussels)

Type of action: Coordination and Support Action

Indicative budget: 2 M€

Recommended EU contribution/project: 2 M€



Thank you for
the attention!

- **Find out more:**
- www.ec.europa/research/horizon2020