

Obzorje 2020
„5. družbeni izziv“

***Podnebni ukrepi, okolje,
učinkovitost virov in surovine***

Ministrstvo za izobraževanje, znanost in šport
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Delovni program za leti 2014 in 2015

- *vsebina razpisov*
- *višina predvidenih finančnih sredstev*
- *oblika aktivnosti oz. instrumenta*

Struktura delovnih programov oz. razpisov

Trije ključni deli:

Specifičen izziv:

- *umestitev konteksta;*
- *opredelitev problema;*
- *zakaj je potrebna določena aktivnost?*

Obseg

- *razmejitev problema;*
- *opredelitev fokusa in omejitev predvidene aktivnosti (brez opisa pristopov)*

Predviden učinek

- *opis ključnih elementov, ki naj bodo doseženi v povezavi z opredeljenim izzivom*

Proračuni po posameznih družbenih izzivih (v mio EUR za celotno obdobje)

1 - Health, demographic change and wellbeing (SC1)	7.471,8
2 - Food security, sustainable agriculture, marine and maritime and inland water research & the Bioeconomy (SC2)	3.851,4
3 - Secure, clean and efficient energy* (SC3)	5.931,2
4 - Smart, green and integrated transport (SC4)	6.339,4
5 - Climate action, environment, resource efficiency and raw materials (SC5)	3.081,1
6 - Europe in a changing world-inclusive, innovative and reflective societies (SC6)	1.309,5
7 - Secure societies-protecting freedom and security of Europe and its citizens (SC7)	1.694,6

□Additional funding for nuclear safety and security from the Euratom Treaty activities (2014-2018)

▪ **Proračun za 5. družbeni izziv za leti 2014 in 2015**
(v mio EUR)

2014	289,0
2015	324,0

▪ **Proračun za 5. družbeni izziv v celotnem obdobju programa Obzorja 2020** (v mio EUR)

2014-2020	3.081,1
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☐ Additional funding for nuclear safety and security from the Euratom Treaty activities (2014-2018)

Vključevanje ciljev podnebnih sprememb in trajnostnega razvoja

- vsaj 60 % proračuna Obzorja 2020 je namenjeno ciljem trajnostnega razvoja
- izdatki za podnebne cilje naj bi presegli 35 % celotnega proračuna Obzorja 2020

Primerjava s 7OP

- več eko-inovacij, vključno s socialnimi inovacijami
- vključitev surovin ("raw materials")
- področje okolja v povezavi z zdravjem del „1. družbenega izziva“

Fokusna področja

- povezave z drugimi družbenimi izzivi -

Vse skupaj 12 fokusnih področij, pri čemer je 5 povezanih s „5. družbenim izzivom“

- **Blue growth (SC2):** *unlocking the potential of the oceans*
- **Energy-efficiency (SC3)**
- **Waste (SC5):** *a resource to recycle, reuse and recover raw materials*
- **Water innovation (SC5):** *boosting its value for Europe*
- **Disaster-resilience (SC7):** *safeguarding society and adapting to climate change*



"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 ecosystems"

Cilj

„zadovoljiti potrebe naraščajočega svetovnega prebivalstva v okviru trajnostnih omejitev naravnih virov, ki jih ima naš planet in njegovi ekosistemi“

Podpodročja (“subchallenges”)

- 1) Transition towards a green economy through eco-innovation (Waste & Water)*
- 2) Fighting and adapting to climate change (SC5)*
- 3) Sustainably managing natural resources and ecosystems (SC5)*
- 4) Sustainable supply of non-energy and non-agricultural raw materials (SC5)*
- 5) Global environmental observation and information systems (SC5)*
- 6) Cultural heritage**

*ni vključeno v Delovni program SC5 za leti 2014 in 2015

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Societal Challenges Water Innovation: Boosting its value for Europe H2020-WATER-2015-two-stage Pub.Date: 11/12/2013 Deadline: 16/10/2014	Societal Challenges Water Innovation: Boosting its value for Europe H2020-WATER-2015-one-stage Pub.Date: 11/12/2013 Deadline: 10/03/2015	Societal Challenges Water Innovation: Boosting its value for Europe H2020-WATER-2014-two-stage Pub.Date: 11/12/2013 Deadline: 08/04/2014
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Societal Challenges Waste: A resource to recycle, reuse and recover raw materials H2020-WASTE-2014-two-stage Pub.Date: 11/12/2013 Deadline: 08/04/2014	Societal Challenges Waste: A resource to recycle, reuse and recover raw materials H2020-WASTE-2014-one-stage Pub.Date: 11/12/2013 Deadline: 08/04/2014	Societal Challenges Growing a Low Carbon, Resource Efficient Economy with a Sustainab ... H2020-SC5-2014-one-stage Pub.Date: 11/12/2013 Deadline: 08/04/2014

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WASTE: A RESOURCE TO RECYCLE, REUSE AND RECOVER RAW MATERIALS

H2020-WASTE-2014-one-stage Sub call of: H2020-WASTE-2014-2015

Publication date	2013-12-11	Deadline Date	2014-04-08 +17:00:00 (Brussels local time)
Budget	€20,000,000	Main Pillar	Societal Challenges
Status	Open	OJ reference	OJ C361/9 of 11 December 2013

Call description Call documents Get support Subscribe to Notifications

Topics and submission service

- WASTE-4a-2014: An EU near-zero waste stakeholder platform
- WASTE-5-2014: Preparing and promoting innovation procurement for resource efficiency
- WASTE-4b-2014: Global waste dimension
- WASTE-4c-2014: Secondary raw materials inventory
- WASTE-3-2014: Recycling of raw materials from products and buildings

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

H2020-WASTE-2014-one-stage Sub call of: H2020-WASTE-2014-2015

Publication date	2013-12-11	Deadline Date	2014-04-08 17:00:00 (Brussels local time)
Total Call Budget	€20,000,000	Main Pillar	Societal Challenges
Status	Open	OJ reference	OJ C361/9 of 11 December 2013

Topic: An EU near-zero waste stakeholder platform **WASTE-4a-2014**

Topic Description Topic Conditions & Documents Submission Service

Specific Challenge: The complexity and heterogeneity of waste streams require coordination and networking between researchers, entrepreneurs and public authorities to harmonise technologies, processes and services, to profit from benchmarking, sharing best practices, and gender mainstreaming, and to use or develop standards. Insufficient cooperation between different value chain players in several raw materials sectors results in lower recycling rates or suboptimal use of raw materials from an environmental and socio-economic point of view. Improved cooperation within or along different value chains and among stakeholders, including a participatory role of citizens, representing the wider society, and civil society organisations, can lead to more efficient use of raw materials and to waste reduction.

The global nature of the waste management challenge requires coordination, pooling of resources and support to the definition of global objectives and strategies, and holds a potential for export of eco-innovative solutions and seizing new

http://ec.europa.eu/research/particip WASTE-4a-2014

The global nature of the waste management challenge requires coordination, pooling of resources and support to the definition of global objectives and strategies, and holds a potential for export of eco-innovative solutions and seizing new markets. Dissemination at international level of knowledge on waste management, including environmental regulations and standards, can contribute to turning waste into a resource at global level and to setting up resource efficient waste management systems and technologies and services, particularly in developing countries and emerging economies. To this end, enhanced forms of participatory processes for all stakeholders are needed.

Scope: Proposals shall address the following issue:

An EU near-zero waste stakeholder platform^[1]: 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, and proposing actions for strengthening links between research funding programmes across the EU. Synergies with relevant EU Initiatives on waste should be considered. Roadmaps addressing specific waste streams, including the electronic waste coming from the ICT sector, should be developed. Proposals should help foster synergies between relevant stakeholders and value chains while identifying new market opportunities. They should provide for participatory and proactive social engagement of citizens and education as well as gender balance and sensitivity specific issues.

Expected impact:

Improved knowledge and metrics of specific waste streams and waste management methods and technologies in Europe, and a coordinated and integrated strategic research and innovation agenda, contributing to harmonised and optimised innovative waste management systems, best practices and standards and increased recycling rates in the medium term. Significant improvement in the knowledge of costs and performances along value chains, informing a pricing policy for waste management in line with the waste hierarchy. Support to the implementation of the Waste Framework Directive (Dir. 2008/98/EC) and achievement of Europe 2020 strategy reduction targets for greenhouse gas emissions. Support to the implementation of the outcome of Rio+20 and the UNEP's Global Partnership on Waste Management and to the implementation of environmentally sound waste management systems, in line with the Basel Convention. New market opportunities for European businesses.

Type of action: Coordination and support actions

^[1] This activity directly aimed at supporting the development and implementation of evidence base for R&I policies and supporting various groups of stakeholders is excluded from the delegation to EASME and will be implemented by the Commission services.

Razpisi

Waste

H2020-WASTE-2014-one-stage: 8 April 2014, 20 mio EUR

H2020-WASTE-2014-two-stage: 8 April 2014 & 16 September 2014, 53 mio EUR

H2020-WASTE-2015-one-stage: 10 March 2015, 4 mio EUR

H2020-WASTE-2015-two-stage: 16 October 2014 & 10 March 2015, 54 mio EUR

Water

H2020-WATER-2014-one-stage: 8 April 2014, 15 mio EUR

H2020-WATER-2014-two-stage: 8 April 2014 & 16 September 2014, 52 mio EUR

H2020-WATER-2015-one-stage: 10 March 2015, 21 mio EUR

H2020-WATER-2015-two-stage: 16 October 2014 & 10 March 2015, 75 mio EUR

SC5 („generic“)

H2020-SC5-2014-one-stage: 8 April 2014, 73 mio EUR

H2020-SC5-2014-two-stage: 8 April 2014 & 16 September 2014, 76 mio EUR

H2020-SC5-2015-one-stage: 10 March 2015, 120 mio EUR

H2020-SC5-2015-two-stage: 16 October 2014 & 10 March 2015, 50 mio EUR

1) Enabling the transition towards a green economy through eco-innovation

Waste: a resource to recycle, re-use and recover raw materials



H2020-WASTE-2014-one-stage

8 April 2014

Budget: 20 mio EUR

- **WASTE-4a-2014: An EU near-zero waste stakeholder platform** (Coordination and support actions)
- **WASTE-5-2014: Preparing and promoting innovation procurement for resource efficiency** (Coordination and support actions)
- **WASTE-4b-2014: Global waste dimension** (Coordination and support actions)
- **WASTE-4c-2014: Secondary raw materials inventory** (Coordination and support actions)
- **WASTE-3-2014: Recycling of raw materials from products and buildings** (Research and Innovation actions)

H2020-WASTE-2014-two-stage

1st stage: 8 April 2014 & 2nd stage: 16 September 2014

Budget: 53 mio EUR

- **WASTE-2-2014: A systems approach for the reduction, recycling and reuse of food waste** (Research and Innovation Actions)
- **WASTE-1-2014: Moving towards a circular economy through industrial symbiosis** (Innovation actions)

H2020-WASTE-2015-one-stage

10 March 2015, 4 mio EUR

- **WASTE-4d-2015: Raw materials partnerships** (Coordination and support actions)

H2020-WASTE-2015-two-stage

1st stage: 16 October 2014 & 2nd stage: 10 March 2015

Budget: 54 mio EUR

- **WASTE-6a-2015: Eco-innovative solutions** (Innovation actions)
- **WASTE-6b-2015: Eco-innovative strategies** (Research and Innovation actions)
- **WASTE-7-2015: Ensuring sustainable use of agricultural waste, co-products and by-products** (Research and Innovation actions)

1) Enabling the transition towards a green economy through eco-innovation

Water: boosting its value for Europe



H2020-WATER-2014-one-stage

8 April 2014

Budget: 15 mio EUR

- **WATER-3-2014: Stepping up EU research and innovation cooperation in the water area** (ERA-NET Cofund)
- **WATER-4a-2014: Dissemination and exploitation, ICT, knowledge, gaps, research needs, etc** (Coordination and support actions)
- **WATER-5a-2014: Strategic cooperation partnerships** (Coordination and support actions)

H2020-WATER-2014-two-stage

1st stage: 8 April 2014 & 2nd stage: 16 September 2014

Budget: 52 mio EUR

- **WATER-1a-2014: First application and market replication**
(Innovation actions)
- **WATER-2a-2014: Water cycle under future climate** (Research and innovation actions)

H2020-WATER-2015-one-stage

10 March 2015

Budget: 21 mio EUR

- **WATER-3-2015: Stepping up EU research and innovation cooperation in the water area** (ERA-NET Cofund)
- **WATER-4b-2015: Water management solutions for agricultural sector, thematic networks** (Coordination and support actions)
- **WATER-5b-2015: A coordination platform** (Coordination and support actions)

H2020-WATER-2015-two-stage

1st stage: 16 October 2014 & 2nd stage: 10 March 2015

Budget: 75 mio EUR

- **WATER-1b-2015: Demonstration/pilot activities** (Innovation actions)
- **WATER-2b-2015: Integrated approaches to food security, low-carbon energy, sustainable water management and climate change mitigation** (Research and innovation actions)
- **WATER-5c-2015: Development of water supply and sanitation technology, systems and tools, and/or methodologies** (Research and innovation actions)

Growing a low carbon, resource efficient economy with a sustainable supply of raw materials

2) Fighting and adapting to climate change

3) Protecting the environment, sustainably managing natural resources, water, biodiversity and ecosystem

4) Ensuring the sustainable supply of non-energy and non-agricultural raw materials

5) Developing comprehensive and sustained global environmental observation and information systems

H2020-SC5-2014-one-stage

8 April 2014

Budget: 73 mio EUR

- **SC5-05a-2014: Climate change mitigation options** (Coordination and support actions)
- **SC5-09-2014: Consolidating the European Research Area on biodiversity and ecosystem services** (ERA-NET Cofund)
- **SC5-10a-2014: Enhancing mapping ecosystems and their services** (Coordination and support actions)
- **SC5-11a-2014: Mining of small and complex deposits and alternative mining** (Research and innovation actions)
- **SC5-12a-2014: Materials for electronic devices** (Research and innovation actions)
- **SC5-13a-2014: Mineral deposits of public importance** (Coordination and support actions)
- **SC5-14-2014: Consolidating global knowledge on the green economy in support of sustainable development objectives in Europe and internationally** (Coordination and support actions)

(1)

H2020-SC5-2014-one-stage

8 April 2014

Budget: 73 mio EUR

- **SC5-18a-2014: Coordinating European Observation Networks to reinforce the knowledge base for climate, natural resources and raw materials** (Coordination and support actions)
- **SC5-19a-2014: Facilitating transnational cooperation between NCPs in SC5** (Coordination and support actions)
- **SC5-10b-2014: Structuring research on soil, land-use and land management in Europe** (Coordination and support actions)
- **SC5-11b-2014: Flexible processing technologies** (Research and innovation actions)
- **SC5-13b-2014: Strategic international dialogues and cooperation on raw materials with technologically advanced countries** (Coordination and support actions)
- **SC5-08-2014: Preparing and promoting innovation procurement for soil decontamination** (Coordination and support actions)

(2)

H2020-SC5-2014-two-stage

1st stage: 8 April 2014 & 2nd stage: 16 September 2014

Budget: 76 mio EUR

- **SC5-03a-2014: Economic assessment of climate change**
(Research and innovation actions)
- **SC5-16-2014: Making Earth Observation and Monitoring Data usable for ecosystem modelling and services** (Research and innovation actions)
- **SC5-03b-2014: Linkages between climate change actions and sustainable development** (Research and innovation actions)
- **SC5-01-2014: Advanced Earth-system models** (Research and innovation actions)
- **SC5-06-2014: Biodiversity and ecosystem services: drivers of change and causalities** (Research and innovation actions)

H2020-SC5-2015-one-stage

10 March 2015

Budget: 120 mio EUR

- **SC5-10c-2015: An EU support mechanism for evidence-based policy on biodiversity & ecosystems services** (Coordination and support actions)
- **SC5-11c-2015: Deep mining on continent and in sea-bed** (Research and innovation actions)
- **SC5-13c-2015: Innovation friendly minerals policy framework** (Coordination and support actions)
- **SC5-18b-2015: Integrating North African, Middle East and Balkan Earth Observation capacities in GEOSS** (Coordination and support actions)
- **SC5-19b-2015: Mapping Member State research and innovation in climate change, environment, resource efficiency and raw materials** (Coordination and support actions)
- **SC5-11e-2015: New metallurgical systems** (Research and innovation actions)
- **SC5-13e-2015: Raw materials intelligence capacity** (Coordination and support actions)

(1)

H2020-SC5-2015-one-stage

10 March 2015

Budget: 120 mio EUR

- **SC5-13f-2015: Strategic international dialogues and cooperation with raw materials producing countries and industry** (Coordination and support actions)
- **SC5-05b-2015: Earth-system modelling and climate services** (Coordination and support actions)
- **SC5-12b-2015: Materials under extreme conditions** (Research and innovation actions)
- **SC5-15-2015: Strengthening the European Research Area in the domain of Earth Observation** (ERA-NET Cofund)
- **SC5-11d-2015: New sustainable exploration technologies and geomodels** (Research and innovation actions)
- **SC5-13d-2015: Raw materials research and innovation coordination** (Coordination and support actions)
- **SC5-02-2015: ERA for Climate Services** (ERA-NET Cofund)

(2)

H2020-SC5-2015-two-stage

1st stage: 16 October 2014 & 2nd stage: 10 March 2015

Budget: 50 mio EUR

- **SC5-07-2015: More effective ecosystem restoration in the EU** (Research and innovation actions)
- **SC5-17-2015: Demonstrating the concept of 'Citizen Observatories'** (Innovation actions)
- **SC5-04-2015: Improving the air quality and reducing the carbon footprint of European cities** (Research and innovation actions)

6) Cultural Heritage*

Cultural Heritage		
Energy strategies and solutions for deep renovation of historic buildings — Research and Innovation Actions	2014	Energy efficiency (SC3)
Mitigating the impacts of climate change and natural hazards on cultural heritage sites, structures and artefacts — Research and Innovation Actions	2015	Disaster resilience (SC7)

*ni vključeno v Delovni program SC5 za leti 2014 in 2015

SME Instrument

SC5-20-2014-1: Boosting the potential of small businesses for eco-innovation and a sustainable supply of raw materials

- za vse eko-inovativne SMEs z vseh področij 5. družbenega izziva

Hvala za pozornost!

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