



Slovenian Business & Research Association
Slovensko gospodarsko in raziskovalno združenje

Circular Change Conference 2018

Unfolding Circular Economy Roadmaps

Maribor, 10-11 May 2018

Assoc. Prof. Dr. Draško Veselinovič
President of the Management Board

SBRA - Brussels

SBRA Structure & Core Activities



Structure

- Established in 1999;
- Connects business, research and local communities with the EU institutions and other public and private bodies at EU level.

Core Activities

- **EU funding & Informing members** on EU developments incl. regulation, with a focus on EU projects, programs and funds. A weekly scan of news, relevant calls, events, publications ,etc.
- **Partner Search** – besides informing members of relevant EU programs and projects, actively strive to find the proper EU cal and search for relevant partners and potential project consortia.
- **Networking** – extremely active in networks such as ERRIN (European Regions Research and Innovation Network) and IGLO (RTD Liaison Offices), etc.
- **Conferences & Promotional events**, publishing reports. Publication MOST allows us to widely disseminate our members' achievements.



Next EU Budget (2021 – 2027)

Key features of next EU Budget



More funding for priority areas



A new mechanism to protect the EU budget from financial risks linked to the rule of law



A strong focus on European added value and on performance



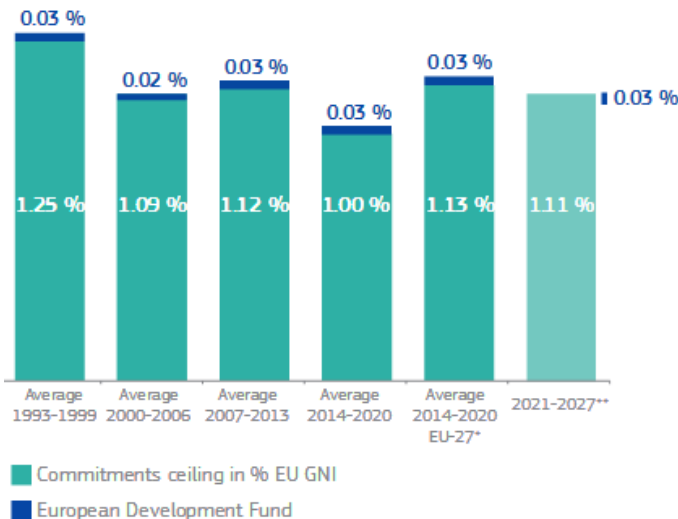
Less red tape for beneficiaries



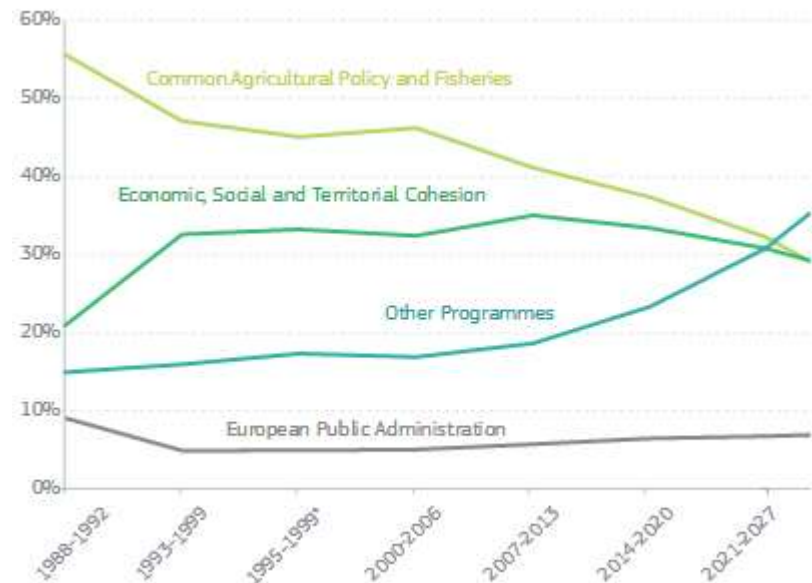
A more flexible and agile budget with a clearer and leaner architecture

The size of the EU budget as a percentage of gross national income

Commitments ceiling in % EU GNI



Evolution of main policy areas in the EU budget



EU budget: Commission with a modern budget to protect, empower and defend EU

In billion euro, current prices

I. SINGLE MARKET, INNOVATION AND DIGITAL €187.4

- 1 Research and Innovation
- 2 European Strategic Investments
- 3 Single Market
- 4 Space

II. COHESION AND VALUES €442.4

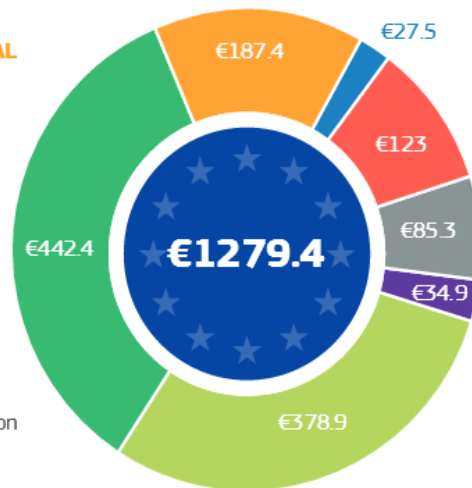
- 5 Regional Development and Cohesion
- 6 Economic and Monetary Union
- 7 Investing in People, Social Cohesion and Values

III. NATURAL RESOURCES AND ENVIRONMENT €378.9

- 8 Agriculture and Maritime Policy
- 9 Environment and Climate Action

IV. MIGRATION AND BORDER MANAGEMENT €34.9

- 10 Migration
- 11 Border Management



V. SECURITY AND DEFENCE €27.5

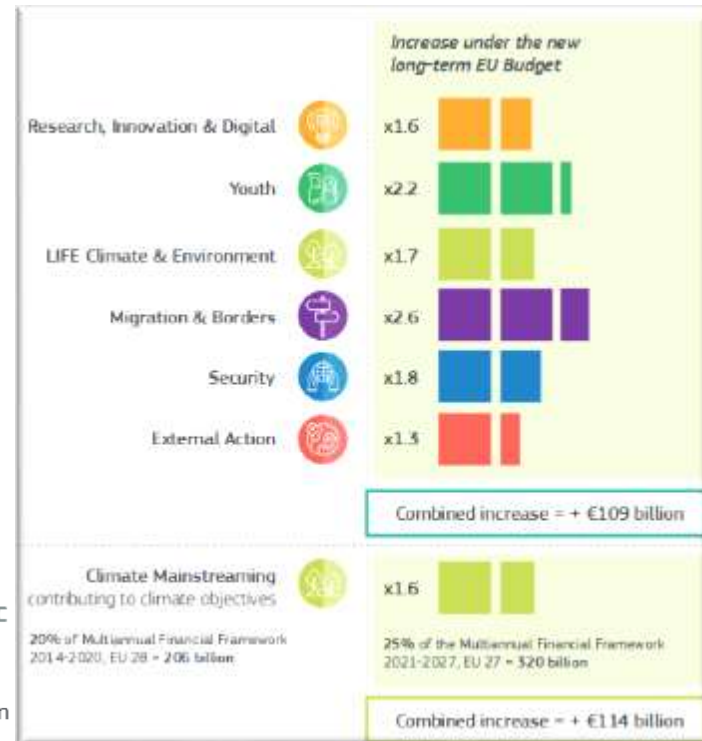
- 12 Security
- 13 Defence
- 14 Crisis Response

VI. NEIGHBOURHOOD AND THE WORLD €123

- 15 External Action
- 16 Pre-Accession Assistance

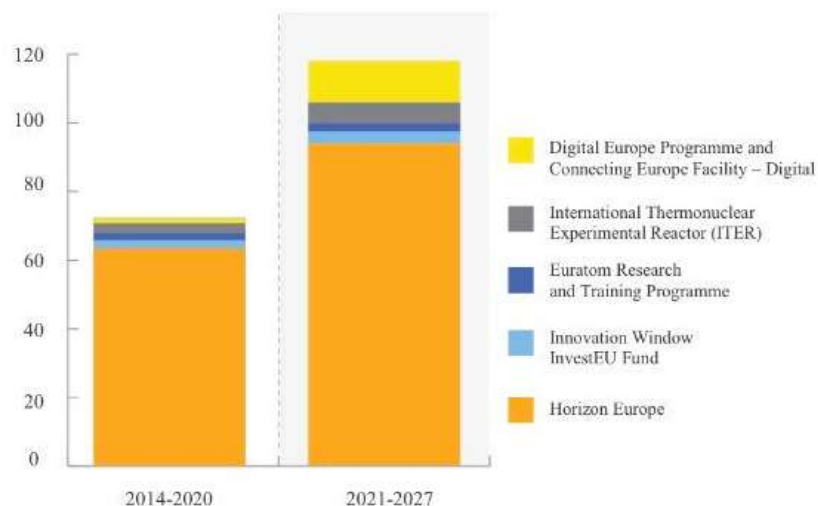
VII. EUROPEAN PUBLIC ADMINISTRATION €85.3

- 17 European Public Administration

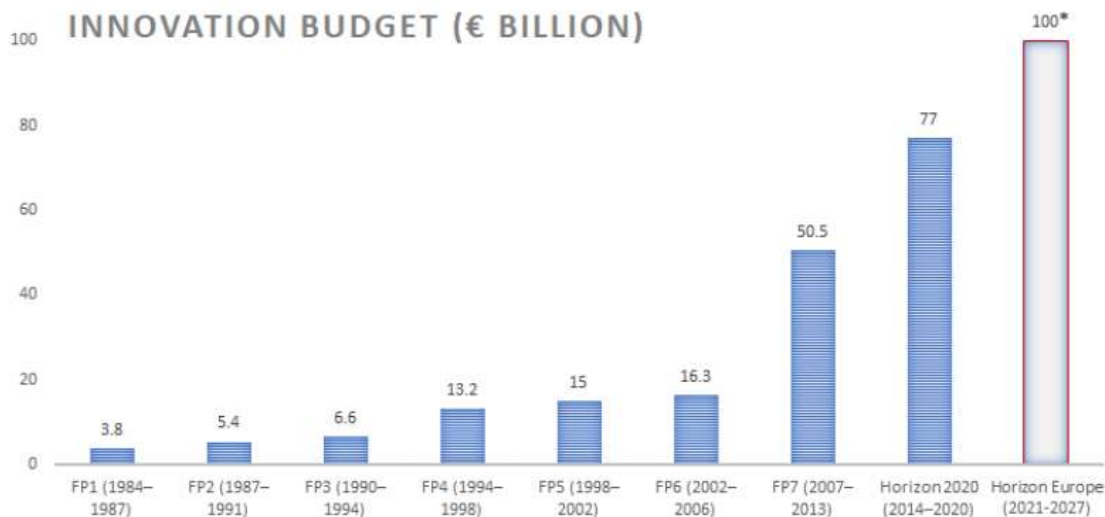


Good news for science, research, innovations: more money through Horizon Europe (a successor of H2020)

In billion euro, current prices



THE EVOLUTION OF EU'S RESEARCH AND INNOVATION BUDGET (€ BILLION)



TOPIC : Produce sustainable and cost-efficient high-performance functional ingredients from alternative sources

Topic identifier: BBI.2018.SO3.D5
Publication date: 11 April 2018

Types of action: BBI-IA-DEMO Bio-based Industries Innovation action - Demonstration
DeadlineModel: single-stage
Opening date: 11 April 2018
Deadline: 06 September 2018 17:00:00

Time Zone : (Brussels time)

TOPIC : Develop bio-based packaging products that are biodegradable/compostable and/or recyclable

Topic identifier: BBI.2018.SO3.R10
Publication date: 11 April 2018

Types of action: BBI-RIA Bio-based Industries Research and Innovation action
DeadlineModel: single-stage
Opening date: 11 April 2018
Deadline: 06 September 2018 17:00:00

Time Zone : (Brussels time)

Scope:

Demonstrate the cost-effective, efficient and sustainable production of high-performance functional ingredients that meet market demand and safety standards for target sectors such as food, feed, nutraceuticals, cosmetics, pharmaceuticals, etc. (see Introduction).

Proposals should use biomass sources that can provide cost-effective, efficient and sustainable solutions to deliver functional ingredients in sustainable circular economy production systems. This topic includes different sources and streams of plant and animal origins as feedstock, such as agricultural or forest residues, food processing residual streams, non-seed plants, aquatic biomass, and invertebrates. It excludes food crops.

Proposals should address the elimination of hurdles and bottlenecks regarding the logistics, transport modes and associated infrastructure in the targeted biomass feedstock supply systems. These include collection systems, intermediate storage and safety aspects.

Indicative funding:

It is considered that proposals requesting a maximum contribution EUR 7 million would be able to address this specific challenge appropriately. However, this does not preclude the submission and selection of proposals requesting other amounts.

Scope:

Design new processing systems for functional bio-based packaging products that are reusable, recyclable, and/or compostable and biodegradable, as an alternative to the current identified benchmark products.

Proposals should address the production process, including the necessary improvements to lamination and coating steps to obtain the target end-products and their specifications.

Proposals should prove that the target packaging products are recyclable or compostable/biodegradable in various environments to reduce their overall environmental footprint. This will make their production and use more circular.

The scope also includes multi-layer products. In that case, proposals should consider the feasibility of producing multi-layer/single-polymer solutions, instead of multi-layer/multi-polymer solutions, provided they meet all required functionalities and outperform state-of-the-art alternatives for sustainability.

Indicative funding:

It is considered that proposals requesting a contribution of between EUR 2 million and EUR 5 million would be able to address this specific challenge appropriately. However, this does not preclude the submission and selection of proposals requesting other amounts.

Horizon 2020 Circular Economy Calls (2/6)

TOPIC : Sustainable solutions for bio-based plastics on land and sea

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|------------------------------|---|
| Topic identifier: | CE-BG-06-2019 |
| Publication date: | 27 October 2017 |
| Focus area: | Connecting economic and environmental gains - the Circular Economy (CE) |
| Types of action: | IA Innovation action |
| DeadlineModel: | single-stage |
| Planned opening date: | 16 October 2018 |
| Deadline: | 23 January 2019 17:00:00 |

Time Zone : (Brussels time)

TOPIC : Circular bio-based business models for rural communities

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|------------------------------|---|
| Topic identifier: | CE-RUR-10-2019 |
| Publication date: | 27 October 2017 |
| Focus area: | Connecting economic and environmental gains - the Circular Economy (CE) |
| Types of action: | IA Innovation action |
| DeadlineModel: | single-stage |
| Planned opening date: | 16 October 2018 |
| Deadline: | 23 January 2019 17:00:00 |

Time Zone : (Brussels time)

Scope:

Activities shall focus on sustainability strategies and solutions for bio-based products. They shall include innovative product design and business models facilitating efficient reuse and recycling strategies and solutions, including ensuring the safety of recycled materials when used for toys or packaging food stuffs. They shall address the technical and economic barriers to bio-based plastics recycling as regards established and/or alternative recycling options. The risk, impact and solutions to cross-contamination with conventional plastics waste streams or other contaminants shall also be addressed. Additionally, activities shall contribute to building a biodegradable plastics^[1] sustainability framework by mapping and focusing on the applications where biodegradable and compostable solutions could support public policies. Work on the biodegradable sustainability framework could include pre-normative research including field tests on land and at sea. Lastly, in line with the requirements of responsible research and innovation, activities shall support the development of international fora and platforms that would facilitate systemic innovation and uptake of results by enabling different actors of the value chains, from industry to civil society and public authorities, to cooperate towards more circularity in the bio-plastics economy. Activities shall build on the results and ongoing developments of EU projects funded under Framework Programmes FP7 and Horizon 2020 as well as on available and on-going standardisation results and activities including work within CEN TC 411 or under ISO. The interdisciplinary and cross-sectorial nature of the proposal should also apply to training activities improving the professional skills and competencies and supporting the creation of new jobs in the blue economy and in the bioeconomy.

Scope:

Based on an established agro-food system^[1], proposals shall consider a variety of additional bio-based processes and end products that could be integrated into the system, and that are viable on a small scale (farm to rural community level). The TRL of the technologies considered can vary at the start. The project shall test and demonstrate the combination of these in a circular configuration. The integrated system shall achieve a TRL 6-7.

Proposals can target any combination of non-food bio-based outputs, but projects focussing mainly on bio-fuels or bio-energy are not eligible. The choice of feedstock sources shall avoid negative effects on food security^[2]. Proposals shall focus on a single agro-food system that should be common in Europe and offer high replication potential, and can be combined with sustainable management of natural areas^[3] and/or use of marginal lands. A complete assessment (economic, environmental and social) of the integrated system shall be carried out. The project shall include a business plan^[4], and a set of policy options and recommendations.

Proposals shall fall under the concept of the 'multi-actor approach'^[5], ensuring solid collaboration between relevant actors such as farmers or farmers associations, agro-food industry (including small businesses), technology providers, research centres or public authorities. Proposals should include a task to cluster with other projects financed under this topic, under topic SFS-35-2020 and – if possible – with other relevant projects in the field that are funded by Horizon 2020 (including under the BBI JU).

The Commission considers that proposals requesting a contribution from the EU of up to EUR 10 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Horizon 2020 Circular Economy Calls (3/6)

TOPIC: Conversion of captured CO2

Topic identifier: CE-SC3-NZE-2-2018
Publication date: 27 October 2017
Focus area: [Connecting economic and environmental gains - the Circular Economy \(CE\)](#)

Types of action: RIA Research and Innovation action

DeadlineModel: single-stage

Planned opening date: 15 May 2018

Deadline: 06 September 2018 17:00:00

Time Zone : (Brussels time)

TOPIC: Building a water-smart economy and society

Topic identifier: CE-SC5-04-2019
Publication date: 27 October 2017
Focus area: [Connecting economic and environmental gains - the Circular Economy \(CE\)](#)

Types of action: IA Innovation action

DeadlineModel: two-stage

Planned opening date: 14 November 2018

Deadline: 19 February 2019 17:00:00

2nd stage Deadline: 04 September 2019 17:00:00

Time Zone : (Brussels time)

Scope:

Development of energy-efficient and economically and environmentally viable CO2 conversion technologies for chemical energy storage or displacement of fossil fuels that allow for upscaling in the short to medium term. Projects have to substantiate the potential for the proposed CCU solution(s) as CO2 mitigation option through conducting an LCA in conformity with guidelines developed by the Commission or the relevant ISO standard. Proposals have to define ambitious but achievable targets for energy requirements of the conversion process (including catalytic conversion), production costs and product yields, that will be used to monitor project implementation.

Proposals are expected to bring technologies that have reached at least TRL 3-4 to TRL 5-6 (please see part G of the General Annexes). Technology development has to be accompanied by an assessment of the societal readiness towards the proposed innovations. Relevant end users and societal stakeholders will be identified in the proposal, and their concerns and needs will be analysed during the project using appropriate techniques and methods from the social sciences and humanities, in order to create awareness, gain feedback on societal impact and advancing society's readiness for the proposed solutions.

The Commission considers that proposals requesting a contribution from the EU in the range of EUR 3 to 4 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Scope:

Actions should demonstrate the feasibility of a 'water smart' economy and society in which all available water resources, including surface, groundwater, waste water, and process water, are managed in such a way as to avoid water scarcity and pollution, increase resilience to climate change, appropriately manage water-related risks, and ensure that all valuable substances that could be obtained from waste water treatment processes, or are embedded in used water streams, are recovered.

a) Symbiosis between industry and water utilities: Actions should demonstrate resource-efficient solutions derived from the systemic exploitation of symbiotic inter-linkages between wastewater treatment in industry and by water utilities. These might address, for instance, the reuse of treated wastewater, the use of substances or energy derived from wastewater treatment, or might demonstrate the concept of dynamic allocation of the right quality of water for the right purpose, while ensuring health and safety. Innovative solutions do not need to be only technological, but may also encompass other types of innovation such as innovative governance and stakeholder engagement or business models in industrial environments.

b) Large scale applications with multiple water users at various relevant scales: Actions should test and demonstrate systemic innovation in real life, large scale operational environments. Actions should address multiple water users (urban, industrial, rural and agricultural) and various relevant scales (regional/national/international) for:

- stimulating efficient and multiple use, recycling and reuse of water; recovery of energy and materials (such as nutrients, minerals, chemicals and metals) from water;
- managing water demand and efficient allocation;
- exploiting alternative water sources;
- prevention of water pollution and degradation of the aquatic environment and soil; and
- cost-effective and smart management of the water system and infrastructure.

The Commission considers that proposals requesting a contribution from the EU of between EUR 10 million and EUR 15 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Horizon 2020 Circular Economy Calls (4/6)

TOPIC : Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes

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|------------------------------|---|----------------------------|----------------------------|
| Topic identifier: | CE-SC5-07-2018-2019-2020 | | |
| Publication date: | 27 October 2017 | | |
| Focus area: | Connecting economic and environmental gains - the Circular Economy (CE) | | |
| Types of action: | IA Innovation action | | |
| DeadlineModel: | two-stage | Deadline: | 27 February 2018 17:00:00 |
| Planned opening date: | 07 November 2017 | 2nd stage Deadline: | 04 September 2018 17:00:00 |
| Types of action: | IA Innovation action | | |
| DeadlineModel: | two-stage | Deadline: | 19 February 2019 17:00:00 |
| Planned opening date: | 14 November 2018 | 2nd stage Deadline: | 04 September 2019 17:00:00 |

Time Zone : (Brussels time)

TOPIC : Raw materials policy support actions for the circular economy

| | | | |
|------------------------------|---|------------------|---------------------------|
| Topic identifier: | CE-SC5-08-2018-2019-2020 | | |
| Publication date: | 27 October 2017 | | |
| Focus area: | Connecting economic and environmental gains - the Circular Economy (CE) | | |
| Types of action: | CSA Coordination and support action | | |
| DeadlineModel: | single-stage | Deadline: | 27 February 2018 17:00:00 |
| Planned opening date: | 07 November 2017 | | |
| Types of action: | CSA Coordination and support action | | |
| DeadlineModel: | single-stage | Deadline: | 19 February 2019 17:00:00 |
| Planned opening date: | 14 November 2018 | | |

Time Zone : (Brussels time)

Scope:

Actions should develop and demonstrate innovative pilots for the clean and sustainable production of non-energy, non-agricultural raw materials in the EU from primary and/or secondary sources finishing at Technology Readiness Levels (TRL) 6-7.

All actions should contribute to achieving the targets of the EIP on Raw Materials, particularly in terms of innovative pilot actions on processing and/or recycling for the innovative production of raw materials, and to building the EU knowledge base of primary and secondary raw materials by feeding into the EC Raw Materials Information System – RMIS^[2]. Actions should also contribute to improving the awareness of relevant external stakeholders and the general public across the EU about the importance of raw materials for society, the challenges related to their supply within the EU and about proposed solutions which could help to improve society's acceptance of and trust in sustainable raw materials production in the EU.

All actions should facilitate the market uptake of solutions developed through industrially- and user-driven multidisciplinary consortia covering the relevant value chain and should consider standardisation aspects when relevant.

All actions should justify the relevance of selected pilot demonstrations in different locations within the EU (and also outside if there is a clear added value for the EU economy, industry and society).

The Commission considers that proposals requesting a contribution from the EU of between EUR 8 million and EUR 13 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Scope:

All actions should contribute to building the EU knowledge base of primary and secondary raw materials (EC Raw Materials Information System – RMIS^[1]).

Actions should include a task to cluster with other relevant projects in the field funded by Horizon 2020, in support of the EIP on Raw Materials.

Actions should address only one of the following sub-topics^[2]:

- Voluntary scheme for certification of treatment facilities for key types of wastes (2018)**
- Resource efficiency in wood processing, recovery and recycling (2018)**
- Responsible sourcing of raw materials in global value chains (2019)**

The Commission considers that for this sub-topic, proposals requesting a contribution from the EU of up to EUR 3 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

TOPIC : Refurbishment and re-manufacturing of large industrial equipment (IA)

| | |
|------------------------------|---|
| Topic identifier: | DT-FOF-06-2019 |
| Publication date: | 27 October 2017 |
| Focus area: | Digitising and transforming European industry and services (DT) |
| Types of action: | IA Innovation action |
| DeadlineModel: | single-stage |
| Planned opening date: | 16 October 2018 |
| Deadline: | 21 February 2019 17:00:00 |

Time Zone : (Brussels time)

TOPIC : Digital Platforms/Pilots Horizontal Activities

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|------------------------------|---|
| Topic identifier: | DT-ICT-13-2019 |
| Publication date: | 27 October 2017 |
| Focus area: | Digitising and transforming European industry and services (DT) |
| Types of action: | CSA Coordination and support action |
| DeadlineModel: | single-stage |
| Planned opening date: | 26 July 2018 |
| Deadline: | 14 November 2018 17:00:00 |

Time Zone : (Brussels time)

Scope:

This topic is for demonstration projects to establish the feasibility of lifetime extension of large industrial equipment of the kind used in manufacturing, including modernisation of equipment for data collection and interfaces. Proposals should cover one or more of the following areas:

- refurbishment and/or upgrading of large industrial equipment;
- re-manufacturing and re-use of equipment;
- inspection, functional diagnosis and in-situ repair of damage;
- maintenance and optimised utilisation of large industrial equipment.

These measures can improve the return on investment from major capital items. The scope covers large-scale electrical and/or mechanical machinery in plants rather than electronic equipment, which earlier projects have already covered. Demonstration activities need to take place in real industrial settings and include validation of at least two industrial demonstrators in different sectors, enabling the integration and scale-up of the parameters to other industrial environments.

Activities should start at TRL 5 and achieve TRL 7 at the end of the project.

The Commission considers that proposals requesting a contribution from the EU between EUR 12 and 15 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Scope:

- a) Support pilot activities and knowledge transfer across different sectors**
- b) Legal, regulatory and security support**
- c) Preparation of a digital industrial platform for the construction sector**

Proposals should address only one of the above-mentioned subtopics a), b), or c). The Commission considers that proposals requesting a contribution from the EU up to EUR 2 million for a) and EUR 1 million for each of b) and c) would allow above areas to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts. At least one coordination and support action is supported for each of the areas above.

Horizon 2020 Circular Economy Calls (6/6)

TOPIC: Visionary and integrated solutions to improve well-being and health in cities

Topic identifier: SC5-14-2019
Publication date: 27 October 2017

Types of action: IA Innovation action
DeadlineModel: two-stage
Planned opening date: 14 November 2018
Deadline: 19 February 2019 17:00:00
2nd stage Deadline: 04 September 2019 17:00:00

Time Zone : (Brussels time)

TOPIC: ERA-NET Cofund action(s) for climate action, environment, resource efficiency and raw materials

Topic identifier: SC5-21-2019-2020
Publication date: 27 October 2017

Types of action: ERA-NET-Cofund ERA-NET Cofund
DeadlineModel: single-stage
Planned opening date: 14 November 2018
Deadline: 19 February 2019 17:00:00

Time Zone : (Brussels time)

Scope:

Actions should deliver visionary and integrated solutions (e.g. therapy gardens, urban living rooms, creative streets, city farms) at the intersection of social, cultural, digital and nature-based innovation to increase citizens' health and well-being in cities^[1]. These solutions should address social, cultural, economic and environmental determinants of health and well-being and support urban communities in reducing their exposure to climate-related risks, pollution (including noise), environmental stress and social tensions, including the negative effects of gentrification.

Actions should also demonstrate how the integration of these solutions into innovative land-use management, urban design and planning could reduce health-related environmental burdens in socially deprived neighbourhoods, foster equitable access for all to public spaces, enhance their quality and use and promote sustainable urban mobility patterns.

Actions should test new transition management approaches, governance models, legal frameworks and financing mechanisms to re-design public spaces and urban commons and assess their contribution to improving health and well-being. They should promote multi-stakeholder initiatives, citizens' engagement, co-creation and co-ownership of public spaces. Optimal and cost-effective use of behavioural games, networks of sensors, GIS-mapping, big data, observational programmes such as Copernicus and GEOSS, and citizens' observatories should be made as appropriate to enable the integration and visualisation of data for more effective monitoring of the transition towards healthier and happier cities.

The involvement of social sciences and humanities disciplines such as psychology, behavioural science, economics, law, anthropology, sociology, architecture, or design studies, is considered essential to enhance social learning and promote the role of social and cultural innovation in transforming public spaces, with particular attention devoted to gender dynamics and diversity.

The Commission considers that proposals requesting a contribution from the EU in the range of EUR 10 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Scope:

Proposals should pool the necessary financial resources from the participating national (or regional) research programmes with a view to implementing a joint call for proposals resulting in grants to third parties with EU co-funding in this area. Proposers are requested to include additional joint calls without EU co-funding as well as other activities such as the establishment or consolidation of a pan-European network of funding agencies and other key players in Europe, building on previous experience and avoiding overlaps with other initiatives, support to mutual learning and training, exchange of good practice, researcher mobility and equal opportunities (e.g. through EURAXESS) and better careers in the field. Wherever relevant, actions should involve social sciences and humanities.

Actions should focus on one of the following issues: emerging pollutants; international cooperation on disaster risk reduction and multi-hazard risk management, with emphasis on environmental change; health, environment and climate change; conservation and protection of cultural heritage; biodiversity and climate change; conservation and restoration of degraded ecosystems and their biodiversity, including a focus on aquatic systems; enhancing urban transformation capacities/circular cities; sustainable supply of raw materials; next generation of climate science in Europe.

Synergies should be ensured with relevant public-public partnerships such as the JPI Water, JPI Climate, JPI Cultural Heritage and/or the BiodivERsA ERA-NET, as well as with international programmes such as the Belmont Forum, as appropriate. Participation of legal entities from international partner countries and/or regions is encouraged in the joint call as well as in other joint activities including additional joint calls without EU co-funding. Participants from this/these country/ies may request a Union contribution (on the basis of the ERA-NET unit cost) for the coordination costs of additional activities.

Thank you!

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