

Science with and for Society (SwafS):  
opportunità di finanziamento per promuovere la  
collaborazione tra scienza-società nonché la cultura  
scientifica e la fiducia del pubblico nella scienza

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# Horizon 2020

## Excellent science

- European Research Council
- Future and Emerging Technologies
- Marie Skłodowska-Curie actions
- European Research Infrastructures, including e-Infrastructures

## Industrial leadership

- Leadership in enabling and industrial technologies
  - Information and Communication Technologies
  - Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing, and Biotechnology
- Space
- Access to risk finance
- Innovation in SMEs
  - The SME Instrument
  - The Eurostars programme

## Societal challenges

- Health, demographic change and wellbeing
- Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, environment, resource efficiency and raw materials
- Europe in a changing world - inclusive, innovative and reflective societies
- Secure societies - protecting freedom and security of Europe and its citizens.

Fast Track to Innovation Pilot (2015-2016)

Spreading Excellence and Widening Participation

Science with and for Society

European Institute of Innovation and Technology (EIT)

18/11/2015

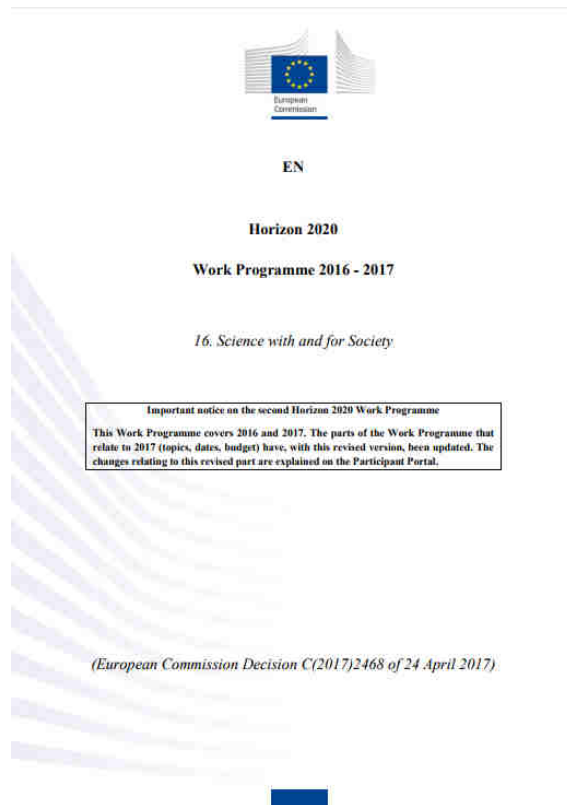
Euratom

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# Aim

- *to build effective cooperation between science and society, to recruit new talent for science and to pair scientific excellence with social awareness and responsibility.*

# 8 specific activities lines



1. attractiveness of scientific careers,
2. gender equality,
3. integration of citizens' interests and values in research and innovation (R&I),
4. formal and informal science education,
5. accessibility and use of research results,
6. governance for the advancement of responsible research and innovation and promotion of an ethics framework for research and innovation,
7. anticipation of potential environmental, health and safety impacts, and
8. improved knowledge on science communication.

# Responsible Research and Innovation (RRI)

- RRI is cutting across Horizon 2020, engaging society, integrating the gender and ethical dimensions, ensuring the access to research outcomes and encouraging formal and informal science education.
- It implies close cooperation between all stakeholders in various strands comprising: science education, definition of research agendas, access to research results and the application of new knowledge in full compliance with gender and ethics considerations.

# Responsible Research and Innovation (RRI)

- RRI implies that societal actors (researchers, citizens, policy makers, business, third sector organisations, etc.) work together during the whole research and innovation process in order to better align both the process and its outcomes with the values, needs and expectations of society.



# Responsible Research and Innovation (RRI)

- Thematic elements of RRI :
  - public engagement,
  - open access,
  - gender,
  - ethics,
  - science education



# Challenge

- The challenge is to foster and support the appropriate settings and collaboration to conduct R&I with and for society
- The challenge is also to make the involvement of societal actors and the integration of societal concerns more systemic and sustainable, e.g. through institutional change in research performing and research funding organisations (RPOs and RFOs).



# Objectives 2016-2017

- Implement institutional changes that foster RRI in R&I organisations
- Extend and update Science with and for Society and RRI knowledge base



# 2016-17 call for proposals

- Institutional Change to Support Responsible Research and Innovation in Research Performing and Funding Organisations
- Embedding Responsible Research and Innovation in Horizon 2020 Research & Innovation
- Strengthening the Science with and for Society Knowledge-Base
- Developing Inclusive, Anticipatory Governance for Research & Innovation

# Budget

Topics (Type of Action)	Budgets (EUR million)	
	2016	2017
Overall indicative budget	44.02	54.55



# H2020-SwafS-2017

H2020

[H2020-SwafS-2016-17](#)

Science with and for Society

A total of 221 proposals were submitted in response to the 2017 topics for H2020-SWAFS-2016-17. The number of proposals for each topic is shown below:

- SwafS-03-2016-2017: 24
- SwafS-05-2017: 17
- SwafS-06-2017: 2
- SwafS-08-2017: 8
- SwafS-10-2017: 26
- SwafS-11-2017: 42
- SwafS-12-2017: 5
- SwafS-13-2017: 44
- SwafS-14-2017: 3
- SwafS-21-2017: 5
- SwafS-22-2017: 15
- SwafS-23-2017: 15
- SwafS-24-2017: 1
- SwafS-26-2017: 7
- SwafS-27-2017: 7

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September  
2017

## Horizon 2020

Horizon 2020 ►

Science with and for Society

€154.031.003  
Total EC Contribution

76 Projects ▼

58 Countries ▼

Total contribution: €154.031.003

Title ↕	EC Contribution ↓
Germany	€18.294.305
United Kingdom	€14.364.090
Spain	€14.213.054
Italy	€13.002.892
Belgium	€11.738.399
Netherlands	€11.328.062
Austria	€10.898.706
France	€6.605.070
Greece	€6.366.939

# OpenUP

- **OPENING UP new methods, indicators and tools for peer review, impact measurement and dissemination of research results**

## Objective

Open Access and Open Scholarship have revolutionized the way scholarly artefacts are evaluated and published, while the introduction of new technologies and media in scientific workflows has changed the “how and to whom” science is communicated, and how stakeholders interact with the scientific community. OpenUP addresses key aspects and challenges of the currently transforming science landscape and aspires to come up with a cohesive framework for the review-disseminate-assess phases of the research life cycle that is fit to support and promote Open Science. Its main objectives are to a) identify and determine ground-breaking mechanisms, processes and tools for peer-review for all types of research results (publications, data, software), b) explore, identify and classify innovative dissemination mechanisms with an outreach aim towards businesses and industry, education, and society as a whole, and c) analyse a set of novel indicators that assess the impact of research results and correlate them of channels of dissemination. It will do so by following a user-centred, evidence-based approach, engaging all stakeholders (researchers, publishers, funders, institutions, industry, public) in an open dialogue through a series of workshops, conferences and training, and validating all interim results via a set of seven pilots involving communities from four research disciplines: life sciences, social sciences, arts & humanities, energy. It will finally produce a set of concrete, practical, validated policy recommendations & guidelines for national and European stakeholders, including EU institutions, a valuable tool in advancing a more open and gender-sensitive science system. OpenUP partners bring expertise and capacity for evaluating and promoting new approaches in support of open science with decade-long experiences in establishing OA e-Infrastructures, excellent skills and innovative approaches for dissemination, impact indicators and policy design and implementation.

# BigPicnic

- **Big Picnic:Big Questions - engaging the public with Responsible Research and Innovation on FoodSecurity**

## Objective

Ensuring the availability of and access to sufficient safe and nutritious food is a key priority that impacts all EU citizens and Horizon 2020 has therefore identified food security as one of the major challenges to be addressed. BGCI, an international network organisation will work with botanic gardens, experienced informal science centres with research expertise in food and food plants, alongside other key organisations to implement the BigPicnic project. This project builds, through the **co-creation approach and public debate**, public understanding of food security issues and enables adults and young people across Europe and in Africa to debate and articulate their views on Responsible Research and Innovation (RRI) in this field to their peers, scientists and policy makers. The project involves the delivery of low-cost, co-created **outreach exhibitions on** food security, using the metaphor of a picnic basket; the exhibition will include information, activities and participatory events that engage a broad range of target audiences (adults, schoolchildren and families). Building on audience engagement and data captured from these initial, locally held, exhibitions, the project will run **science cafés** in publicly accessible and informal engagement areas as well as in botanic gardens, again capturing public views on RRI and food security. The final phase of the project will consolidate the findings of the public engagement to produce two key publications, a report articulating public opinion and recommendations for RRI on food security and a co-creation toolkit that will build capacity for engagement in further science institutions across the EU. A number of case studies on RRI will be provided to support the EU RRI toolkit currently under construction. It is expected that the project evaluation will show organisational learning and change amongst partner institutions. Partners will go on to disseminate training and promotion of RRI for future public engagement.

# JERRI

## • Joining Efforts for Responsible Research and Innovation

### Objective

The goal of the project is to foster RRI transition in Europe by developing and testing good RRI practices in pilot cases, for a further upscaling among the RTOs in the EU28. A Responsible Research and Innovation (RRI) Plan will be developed and implemented at the biggest European RTOs, the Fraunhofer-Gesellschaft and TNO, covering the five RRI key dimensions (societal engagement, gender equality and gender in research and innovation content, open access, science education and ethics). After identifying the state-of-the-art of good RRI practices, goals will be developed for within each dimension. Barriers for the achievement of these goals will be analyzed, and an action plan to overcome these barriers will be formulated. The project will be set up as a mutual learning process between the consortium, further European RTOs, stakeholders, and two international associated partners.



# CREATIONS

## • CREATIONS - Developing an Engaging Science Classroom

### Objective

The CREATIONS coordination action aims to demonstrate innovative approaches and activities that involve teachers and students in Scientific Research through creative ways that are based on Art and focus on the development of effective links and synergies between schools and research infrastructures in order to spark young people's interest in science and in following scientific careers. It aims to support policy development by a) demonstrating effective community building between researchers, teachers and students and empowering the latter to use, share and exploit in an innovative the collective power of unique scientific resources (research facilities, scientific instruments, advanced ICT tools, simulation and visualisation applications and scientific databases) in meaningful educational activities that build on the strengths of formal (educational field trips, virtual visits, school based masterclasses) and informal (games and student generated apps, webfests and hangouts, related artworks like science theatre or student generated exhibits, debates in the framework of junior science cafes) learning, that promote creative inquiry-based learning and appreciation of how science works, b) demonstrating effective integration of science education with infrastructures through monitored-for-impact innovative activities, which will provide feedback for the take-up of such interventions at large scale in Europe and c) documenting the whole process through the development of a roadmap that will include guidelines for the design and implementation of innovative educational and outreach activities that could act as a reference to be adapted for stakeholders in both scientific research outreach and science education policy.

# SwafS WP18-20

Five following strategic orientations:

1. Accelerating and catalysing processes of institutional change,
2. Stepping up the support to Gender Equality in Research & Innovation policy,
3. Building the territorial dimension of SwafS partnerships,
4. Exploring and supporting citizen science, and
5. Building the knowledge base for SwafS.

# SwafS NCPs

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