



**EN**

## **Horizon 2020**

### **Work Programme 2018-2020**

#### *16. Science with and for Society*

##### **IMPORTANT NOTICE ON THIS WORK PROGRAMME**

This Work Programme covers 2018, 2019 and 2020. The parts of the Work Programme that relate to 2019 (topics, dates, budget) have, with this revised version, been updated. The changes relating to this revised part are explained on the Participant Portal. The parts that relate to 2020 are provided at this stage on an indicative basis. Such Work Programme parts will be decided during 2019.

*(European Commission Decision C(2018)4708 of 24 July 2018)*

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## **Introduction**

### ***A heightened policy interest in engaging society***

The SWAFS Work Programme 2018-2020 (WP18-20) has been developed to reflect and support the evolution of science and society and the increased emphasis on their interplay at national and EU levels. There is recognition that co-design with citizens, stakeholders and end-users needs to be promoted in all policy instruments, including in Horizon 2020.

At European Union level, in 2015 Commissioner Moedas identified three strategic priorities, described in Open innovation, Open science, Open to the world<sup>1</sup> (the 3Os strategy), which proposed *inter alia* that "many more actors will take part [in the research process] in different ways and the traditional methods of organising and rewarding research will also see many changes"<sup>2</sup>. One important dimension of open science is citizen science, which is envisioned as "linked with outreach activities, science education or various forms of public engagement with science as a way to promote Responsible Research and Innovation". Giving impetus to this line of activity, citizen science was recently recognised as an open science priority by the Council<sup>3</sup>.

### ***Far-reaching changes to the modus operandi of research and innovation***

Research and innovation (R&I) systems are currently undergoing far-reaching changes to their *modus operandi*. These are enabled by digital technologies and driven by globalisation as well as the increasing demand and need to address the societal challenges of our times. These changes have an impact on the entire R&I cycle, from the inception of research to publication, as well as on the ways in which innovation is organised. All R&I institutions are affected. For science this sees the rise of new scientific disciplines, innovative pathways in publishing (among them a substantial increase in open access journals), new scientific reputation systems, citizen science, and changes to the way the quality and impacts of research are evaluated. For innovation this sees the rise of user-led innovation and crowd funding initiatives.

Increased expectations are put on science yet citizens fear for the future and the most advanced scientific and technological breakthroughs are under intense public scrutiny. Asymmetries still exist in the ability of individuals to interact with and access science, creating inequalities in scientific and innovation outcomes and an ever more pressing need to promote responsible research and innovation. Furthermore, scientific consensus is seemingly being ignored by some policy makers, who are developing policies based on populist narratives rather than evidence.

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<sup>1</sup> <https://ec.europa.eu/digital-single-market/en/news/open-innovation-open-science-open-world-vision-europe>

<sup>2</sup> [http://europa.eu/rapid/press-release\\_SPEECH-15-5243\\_en.htm](http://europa.eu/rapid/press-release_SPEECH-15-5243_en.htm).

<sup>3</sup> <http://data.consilium.europa.eu/doc/document/ST-9526-2016-INIT/en/pdf>.

To respond to these challenges, Horizon 2020 requires an increasingly transdisciplinary and multi-stakeholder approach, involving citizens and end-users, the public sector, and industry, so as to link and take advantage of unique perspectives and knowledge.

The WP18-20 has been designed to respond to these fundamental concerns and developments by opening up science and society and supporting the 3Os strategy through five strategic orientations. Each strategic orientation, as appropriate, takes into account all SwafS lines of activity<sup>4</sup>: public engagement, science education (formal, informal and non-formal), gender equality, ethics/research integrity, open access/data, and governance, scientific careers, due and proportional precaution, and science communication. The WP18-20 will establish clear links with all Horizon 2020 parts (and notably with the Societal Challenges) as well as with all cross-cutting issues.

### ***A clear response to the interim evaluation of Horizon 2020***

The WP18-20 takes into account the results of the interim evaluation of Horizon 2020<sup>5</sup>. It focuses on a smaller number of topics so that, in general, more actions can be funded per topic and it introduces 2-stage calls for some topics in order to increase the attractiveness to newcomers, CSOs and other societal stakeholders, and reduce over-subscription. It includes topics on due and proportionate precaution and science communication for the first time. It puts the emphasis on SMART impacts (see below). It also encourages all stakeholders, and in particular citizens/CSOs, to be involved in the development of R&I contents; this responds to the need for greater outreach to civil society identified in the interim evaluation.

### **Strategic orientations:**

The SwafS WP18-20 is built around the following five 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.

These strategic orientations are developed below.

### **Specific contributions to cross-cutting issues**

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<sup>4</sup> [http://ec.europa.eu/research/participants/data/ref/h2020/legal\\_basis/fp/h2020-eu-establact\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/legal_basis/fp/h2020-eu-establact_en.pdf) (Part V, broad lines of activities). [https://ec.europa.eu/info/publications/interim-evaluation-horizon-2020\\_en](https://ec.europa.eu/info/publications/interim-evaluation-horizon-2020_en), <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>. See [http://www.technopolis-group.com/wp-content/uploads/2016/12/2171\\_D3.2.pdf](http://www.technopolis-group.com/wp-content/uploads/2016/12/2171_D3.2.pdf) for the list of 36 indicators.

<sup>5</sup> [http://ec.europa.eu/research/participants/data/ref/h2020/legal\\_basis/fp/h2020-eu-establact\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/legal_basis/fp/h2020-eu-establact_en.pdf) (Part V, broad lines of activities). [https://ec.europa.eu/info/publications/interim-evaluation-horizon-2020\\_en](https://ec.europa.eu/info/publications/interim-evaluation-horizon-2020_en), <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>. See [http://www.technopolis-group.com/wp-content/uploads/2016/12/2171\\_D3.2.pdf](http://www.technopolis-group.com/wp-content/uploads/2016/12/2171_D3.2.pdf) for the list of 36 indicators.

SwafS WP18-20 integrates Horizon 2020 cross-cutting issues and emphasises:

- Responsible research and innovation (RRI) including gender, and
- Enhancing the attractiveness of the research profession.

Moreover, all proposals should explicitly aim to achieve positive impacts in one or more of the following cross-cutting issues:

- Climate change, sustainable development, and biodiversity,
- Cooperation with third countries.

Notably, all SwafS WP18-20 projects are expected to support one or more of the Sustainable Development Goals<sup>6</sup>

(SDGs, see "Expected impacts" below).

In their structure and processes, consortia should look as much as possible for interdisciplinary and cross-sectoral research and innovation, and due to the societal focus involve experts in the fields of the social and economic sciences and humanities. Consortia should aim to involve SMEs in research and innovation and broader private sector participation. They should look to maximise the engagement of private social actors, such as civil society organisations, non-governmental organisations and social entrepreneurs. All topics are open to international cooperation.

Activities developed in the present SwafS WP18-20 should involve many different actors in order to draw lessons and look for impacts as broadly as possible. Where possible, they should pay attention to the development and application of key enabling and industrial technologies, future and emerging technologies, and areas relating to bridging discovery to market application.

The present SwafS WP18-20 is built to foster the functioning and achievement of the European Research Area (ERA).

### ***Expected impacts***

All applicants should try to detail SMART (Specific, Measurable, Achievable, Realistic, Time-bound) impacts in their proposals, where possible aligned with existing EU or other international objectives. Applicants should state whether SMART impacts will be measurable within the lifetime of the project and/or evident after the project has ended.

The SWAFS Key Performance Indicator (KPI) is related to the number of institutional change actions promoted by the programme. These can take the form of a package of changes across

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<sup>6</sup> [http://ec.europa.eu/research/participants/data/ref/h2020/legal\\_basis/fp/h2020-eu-establact\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/legal_basis/fp/h2020-eu-establact_en.pdf) (Part V, broad lines of activities). [https://ec.europa.eu/info/publications/interim-evaluation-horizon-2020\\_en](https://ec.europa.eu/info/publications/interim-evaluation-horizon-2020_en). <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>. See [http://www.technopolis-group.com/wp-content/uploads/2016/12/2171\\_D3.2.pdf](http://www.technopolis-group.com/wp-content/uploads/2016/12/2171_D3.2.pdf) for the list of 36 indicators.

all or several of the five RRI dimensions: Gender (e.g. implementation of Gender Equality Plans), Science education (e.g. introduction of new curricula, new teaching methods, new means of systematically fostering informal learning in non-educational settings), Open access/open data (e.g. introduction of new rules or practices concerning open access and/or open data), Public engagement (e.g. new means of systematically engaging citizens/Civil Society Organisations in research and innovation activities such as through agenda setting, foresight and public outreach), Ethics (e.g. implementation of new rules concerning treatment of research ethics, codes of conduct, ethical reviews).

Several WP18-20 topics specify indicators which applicants should work towards, notably from the Sustainable Development Goals and from the study *Monitoring the Evolution and Benefits of Responsible Research and Innovation (MoRRI)*<sup>7</sup>; these suggestions do not preclude applicants also working towards other established indicators and objectives (which may be based on qualitative or quantitative data).

### ***European Research Area***

Institutional change at the level of RPOs and RFOs is at the core of collaboration with Member States in the ERA. Open access, gender equality, and an open labour market for researchers are defined as key priorities in the ERA Communication of 2012. Concerning gender equality in particular, institutional change spurs RPOs and RFOs to remove cultural and institutional barriers that generate direct or indirect discrimination in scientific careers and decision making and to integrate a gender dimension in research content which should in turn contribute to scientific excellence. It could be complemented with institutional change contributing to a better engagement of civil society in R&I.

### ***Responsible Research and Innovation (RRI)***

RRI cuts across Horizon 2020, engaging society, integrating the gender and ethical dimensions, ensuring access to research outcomes, and encouraging formal and informal science education. At the occasion of the Competitiveness Council on 4-5 December 2014, RRI was characterised as a process for better aligning research and innovation with the values, needs and expectations of society, implying particularly close cooperation between all stakeholders in the following: science education, public engagement, access to research results and the application of new knowledge in full compliance with gender and ethics considerations.

For instance, Horizon 2020 supports collaboration between researchers and citizens in the research cycle, from defining research agendas to exploiting research results; the Gendered Innovations initiative<sup>8</sup> provides case studies and methodologies to integrate the needs and behaviours of women as well as men in research content. This trend towards opening research

<sup>7</sup> [http://ec.europa.eu/research/participants/data/ref/h2020/legal\\_basis/fp/h2020-eu-establact\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/legal_basis/fp/h2020-eu-establact_en.pdf) (Part V, broad lines of activities). [https://ec.europa.eu/info/publications/interim-evaluation-horizon-2020\\_en](https://ec.europa.eu/info/publications/interim-evaluation-horizon-2020_en). <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>. See [http://www.technopolis-group.com/wp-content/uploads/2016/12/2171\\_D3.2.pdf](http://www.technopolis-group.com/wp-content/uploads/2016/12/2171_D3.2.pdf) for the list of 36 indicators.

<sup>8</sup> <https://genderedinnovations.stanford.edu/what-is-gendered-innovations.html>.



and innovation activities to societal actors and concerns is seen as an important means of improving the quality and relevance of R&I for society.

The challenge for Science with and for Society and Horizon 2020 is therefore to foster collaboration in the conduct of R&I so that it is 'with and for society'. This requires not only open debates, but also the active participation of all stakeholders in actually 'doing R&I'. The involvement of societal actors and the integration of societal concerns needs to be more systematic and sustainable, e.g. through institutional changes in R&I organisations that have lasting effects beyond the lifetime of project funding. Likewise, R&I organisations need to facilitate the production and uptake of scientific knowledge by society.

### **Open research data**

Grant beneficiaries under this work programme part will engage in research data sharing by default, as stipulated under Article 29.3 of the Horizon 2020 Model Grant Agreement (including the creation of a Data Management Plan). Participants may, however, opt out of these arrangements, both before and after the signature of the grant agreement. More information can be found under General Annex L of the work programme

## Call - Science with and for Society

**H2020-SwafS-2018-2020**

*Science with and for society will help citizens, organisations and territories to open a new chapter of their development through joint research and innovation activities in five strategic orientations. It will contribute to the implementation of Responsible Research and Innovation through institutional governance changes in Research Performing (RPOs) and Funding Organisations (RFOs), focusing on developing new partnerships and involving researchers, policy makers, citizens and industry. It will step up support for gender equality in R&I policy by promoting institutional changes and focusing on key areas of research to advance gender equality. It will build on the territorial dimension of SWAFS partnerships by opening up R&I broadly to society according to specific territorial contexts, where territories are understood as geographical areas sharing common features (e.g. economic, social, cultural, environmental). It will explore and support citizen science in a broad sense, encouraging citizens and other stakeholders to participate in all stages of R&I. Finally, it will build the knowledge base for SwafS through a combination of totally bottom-up and open topics and targeted topics including two looking for the first time at science communication and due and proportionate precaution.*

### **Strategic orientation 1. Accelerating and catalysing processes of institutional change**

This part will contribute to implementing the RRI keys (public engagement, science education, ethics including research integrity, gender equality, and open access) through institutional governance changes in Research Funding and Performing Organisations (RFPOs) in an integrated way and to disseminate good practices. In this strategic orientation, RFPOs should be understood broadly as organisations developing or funding activities in the field of R&I as one of their objectives (e.g. a civil society organisation engaged in R&I could be eligible). It will also allow projects to be developed that involve researchers, policy makers, citizens and industry and to monitor impact and progress. Developing new partnerships will be a priority. Results should contribute to the implementation of ERA priorities, a greater involvement of all stakeholders in R&I, and a better and more sustainable engagement with society.

Proposals are invited against the following topic(s):

#### **SwafS-01-2018-2019: Open schooling and collaboration on science education <sup>9</sup>**

Specific Challenge: At the moment, Europe faces a shortfall in science-knowledgeable people at all levels of society. This is a good time to expand opportunities for science learning, in formal, non-formal and informal settings<sup>10</sup>. Evidence shows that European citizens, young and old, appreciate the importance of science and want to be more informed, and that citizens want more science education. Over 40% believe science and technological innovation can

<sup>9</sup> It is expected that this topic will continue in 2020.

<sup>10</sup> [http://ec.europa.eu/research/swafs/pdf/pub\\_science\\_education/KI-NA-26-893-EN-N.pdf](http://ec.europa.eu/research/swafs/pdf/pub_science_education/KI-NA-26-893-EN-N.pdf).

have a positive impact on the environment, health and medical care, and basic infrastructure in the future<sup>11</sup>. Therefore, collaboration between formal, non-formal and informal science education providers, enterprises and civil society should be enhanced to ensure relevant and meaningful engagement of all societal actors with science and increase the uptake of science studies, citizen science initiatives and science-based careers, employability and competitiveness.

Scope: The proposed action targets the creation of new partnerships in local communities to foster improved science education for all citizens. This action aims to support a range of activities based on collaboration between formal, non-formal and informal science education providers, enterprises and civil society in order to integrate the concept of open schooling, including all educational levels, in science education.

"Open schooling" where schools, in cooperation with other stakeholders, become an agent of community well-being shall be promoted; families should be encouraged to become real partners in school life and activities; professionals from enterprises and civil and wider society should actively be involved in bringing real-life projects to the classroom. Relevant policy makers should also be involved, to encourage policy buy-in and the mainstreaming of good practices and insights into policies, and hence sustainability and impact beyond the lifetime of funding. Partnerships that foster expertise, networking, sharing and applying science and technology research findings across different enterprises (e.g. start-ups, SMEs, larger corporations) should be promoted. Gender, socio-economic and geographical differences should be considered.

The Commission considers that proposals requesting a contribution from the EU of the order of € 1.50 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Expected Impact: It is expected that in the short term the development of partnerships between schools, local communities, Civil Society Organisations, universities and industry should contribute to a more scientifically interested and literate society and students with a better awareness of and interest in scientific careers. In the medium term the activities should provide citizens and future researchers with the tools and skills to make informed decisions and choices and in the long-term this action should contribute towards the ERA objectives of increasing the numbers of scientists and researchers in Europe.

Type of Action: Coordination and support action

***The conditions related to this topic are provided at the end of this call and in the General Annexes.***

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<sup>11</sup> [http://ec.europa.eu/commfrontoffice/publicopinion/archives/ebs/ebs\\_419\\_en.pdf](http://ec.europa.eu/commfrontoffice/publicopinion/archives/ebs/ebs_419_en.pdf).

## **SwafS-02-2018: Innovative methods for teaching ethics and research integrity**

Specific Challenge: In order to maximise the quality and societal impact of research, integrity<sup>12</sup> should be an integral part throughout the research and innovation process and more generally within the scientific system, rather than being considered as an add-on and as a means of creating additional red tape. The new European code of conduct for research integrity<sup>13</sup> is unambiguous: *"It is of crucial importance that researchers master the knowledge, methodologies and ethical practices associated with their field"*.

Traditional methods of teaching ethics and research integrity do not appear to be efficient in raising awareness on these issues. There is consequently a need to develop innovative educational methods, engaging all those who are directly (e.g. young and senior researchers) or indirectly (e.g. pupils at all levels of education, educators and students educated in technical laboratory support studies) involved in research. In particular, the needs of two groups should be addressed: that of adolescents, and that of university students and early career researchers.

Scope: On the basis of existing successful educational practices, the action will develop and test innovative educational student-centred methods (formal and informal) aiming to promote a culture of research integrity and raise awareness of students and early career researchers. The above mentioned code of conduct for research integrity will be the reference document to be used as the basis for the proposed methodology. Different curricula and educational tools and methods should be developed for two groups: the first group will be composed of secondary school students; the second will be composed of undergraduate and graduate students in relevant fields (including technical education students) as well as early career researchers.

The curricula should be interactive, aiming to engage students and early career researchers in a dialogue. Such curricula should be adapted to the age of the students and take into account the gender dimension. The curricula may include, for example, drama, role play, service learning, case studies, debates, position papers and presentations as well as e-learning methods. These curricula should allow for plurality of opinions and for nuances, rather than a set of predetermined "right or wrong" answers.

The work will also cover the design of training programmes for educators that will be responsible for implementing the curricula. The work should be based (amongst others) on (i) a mapping of other existing innovative teaching techniques and (ii) an analysis of the benefits and potential impact of the proposed methodology compared to existing educational practices. The action will take into account and build on the output of the research projects financed by

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<sup>12</sup> Research integrity should be here understood in its wide meaning, in particular as the respect of principles and practices which ensure a responsible conduct or research. It therefore covers the necessity to adhere to the highest ethics standards, notably related to the duty of care, in designing, performing, publishing, reviewing and communicating research.

<sup>13</sup> <http://data.consilium.europa.eu/doc/document/ST-14853-2015-INIT/en/pdf>

this Science with and for Society programme that covers training and educational aspects of research integrity (e.g. PRINTEGER, ENERI<sup>14</sup>, project funded via SwafS-27-2017).

Close cooperation with the European Network of Research Ethics and Research Integrity is required.

In line with the strategy for EU international cooperation in research and innovation (COM (2012)479), international cooperation is encouraged.

The Commission considers that proposals requesting a contribution from the EU of the order of EUR 2.50 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Expected Impact: The implementation of this action will improve current educational methods, raise awareness of students and early career researchers and contribute to the establishment of a research integrity culture. The innovative methods for teaching research integrity developed by this project will improve short and long-term educational and training results and will contribute to the responsible conduct of research and research excellence.

Type of Action: Coordination and support action

***The conditions related to this topic are provided at the end of this call and in the General Annexes.***

### **SwafS-03-2018: Developing research integrity standard operating procedures**

Specific Challenge: Research integrity is key to achieving excellence in research and innovation in Europe. It is widely acknowledged that research misconduct undermines the quality of research and may potentially lead to social and financial costs.

Research performing organisations (RPOs), including Higher Education Institutions, as well as research funding organisations (RFOs) play an important role in shaping the culture of scientific research. In this regard, it is important that RPOs and RFOs develop efficient mechanisms to promote the quality of science. As indicated in the first Council conclusions on research integrity<sup>15</sup>, they are expected to "*define and implement policies to promote research integrity and to prevent and address research misconduct*". The implementation of these policies requires the development of standard operating procedures (SOP) and guidelines related to research integrity and the prevention of research misconduct. The crucial role of RPOs and RFOs is further underlined by the new the European code of conduct for research integrity<sup>16</sup>. In order to achieve the broadest embedding of research integrity and the minimisation of research misconduct, appropriate structures must be in place.

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<sup>14</sup> PRINTEGER: <https://printeger.eu/>; ENERI: <http://www.eurecnet.org/eneri/>.

<sup>15</sup> 1 December 2015 – 14853/15 RECH 296.

<sup>16</sup> <http://data.consilium.europa.eu/doc/document/ST-14853-2015-INIT/en/pdf>.

Scope: The action aims to promote the development of Research Integrity Promotion Plans, i.e. concrete and efficient research integrity support processes and structures as "drivers" for institutional change within RPOs and RFOs. To this end, SOP and operative guidelines for effective and efficient prevention, detection and handling (including any legal and financial aspects) of research misconduct (hereafter "processes") will be developed, addressing the needs and expectations of the research funders, the research community and other relevant stakeholders.

In order to inform the development of such guidelines, discipline-related focus groups including stakeholders from research integrity structures (research integrity offices, academies, industry ethics departments, university research offices, etc.) should take place. The issue of promoting research integrity and the relation with scientific and research culture in general should also be discussed and analysed.

The outcomes of the focus groups will form the basis of a large-scale survey of researchers on issues around research integrity to be carried out by the action. This survey should be performed on the basis of the relevant literature and, in order to avoid duplication, take into account previous survey results including those conducted by the SwafS projects PRINTEGER<sup>17</sup>, ENERI<sup>18</sup>, DEFORM<sup>19</sup> and EnTIRE. Similarly, the results of EU Member State national surveys should also be used appropriately. The survey, to be conducted in all EU Member States and some key OECD countries, should cover the main scientific disciplines (including social sciences and humanities) in order to reflect the different realities and perceptions of research integrity within these fields. Ultimately, the survey results will inform the development of the research integrity support processes and structures.

The processes must be in line with the above mentioned new European code on research integrity. Overall, the action must facilitate the coherent implementation of the principles and practices contained in this code throughout the European Research Area. The elaborated SOPs/guidelines should be tested as a pilot, in selected institutions, and the feedback on their efficiency and effectiveness should be integrated into the outcomes of the project.

When designing such processes, the work shall explore, among others, factors that could have a negative influence on the culture of scientific research as well as on the means of promoting the quality of science, identifying in particular best standard practices, good laboratory practices (GLPs), conditions for reproducibility of results and standardisation of materials, encouraging the publication of negative results. The processes and structures should be comprehensive and practical, designed to address specific needs and expectations of the research community and other relevant stakeholders in the different fields. The work should also include cost-benefit analysis and suggestions as to how the proposed SOP/guidelines should be embedded in the RPOs internal procedures (e.g. acknowledging differences in size, scope of activities, budget, location, etc.)

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<sup>17</sup> <https://printeger.eu/>

<sup>18</sup> <http://eneri.eu/>

<sup>19</sup> <https://www.deform-h2020.eu/>

A key element in developing the SOPs is the need to address, in a constructive manner, the roots of research misconduct (e.g. the lack of standardisation and GLPs, negative consequences of the "publish or perish" model and side effects of assessing excellence via bibliometric tools) and not to solely rely on repressive systems. In this regard and in addition to the identification of the most effective sanctions (from a short and long-term perspective), innovative ways of stimulating responsible research practices should be proposed and validated (preparatory work should be included in the survey). This should also address those researchers who have been involved in some form of misconduct ("innovative sanctions").

The scientific community and other relevant stakeholders should be involved in the co-design of research integrity plans for RPOs and RFOs. The research integrity plans should include actions such as the introduction of research integrity in Higher Education Institutions' curricula, continuing education actions on research integrity, SOP for establishing research integrity committees and a commonly accepted framework of principles and procedures dealing with issues of research misconduct.

The proposal should demonstrate how the Research Integrity Promotion Plans will contribute to the promotion of research integrity, fostering a culture of open science and open innovation. The work will also propose methods for monitoring the implementation of such integrity plans in RPOs and RFOs.

The proposed actions will closely collaborate with and make use of the results from relevant EU funded research projects under the SWAFs programme (mainly PRINTEGER, ENERI, DEFORM and projects funded via SwafS-16-2016, SwafS-21-2017, SwafS-27-2017). The currently available results of these projects are accessible through the websites already listed (see previous footnote). Any IT communication infrastructure envisioned should use the existing EU communication tool SINAPSE<sup>20</sup>

The close cooperation with the European Network on Research Ethics and Research Integrity (ENERI) is of particular importance due to its current activities in this area. In order to improve the impact of the expected output, cooperation with organisations of research managers and administrators such as the European Association of research managers and Administrators (EARMA) is encouraged.

In line with the strategy for EU international cooperation in research and innovation (COM(2012)497), international cooperation is encouraged.

A project duration of at least 36 months is recommended.

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

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See <http://europa.eu/sinapse>. SINAPSE quick guide:  
<https://europa.eu/sinapse/sinapse/index.cfm?fuseaction=cmt.downloadguide>

Expected Impact: Overall, the action will actively contribute to the development in the EU of a strong research integrity culture and to a coherent adherence to the highest ethics and integrity standards. The resulting support processes and structures should ultimately lead to institutional changes within RPOs and RFOs that will fill in gaps in the existing system and promote responsible research and innovation while respecting the diverse circumstances that prevail in different scientific and research fields.

Type of Action: Coordination and support action

*The conditions related to this topic are provided at the end of this call and in the General Annexes.*

### **SwafS-04-2018: Encouraging the re-use of research data generated by publically funded research projects**

Specific Challenge: All research builds on former work and depends on scientists' possibilities to access and share scientific information. In the context of Open Science and Responsible Research and Innovation the European Commission therefore strongly supports the optimal open access to and re-use of research data (considering e.g. robust opt-outs). As a concrete action the EC has extended the Open Research Data Pilot to cover all areas of Horizon 2020 (as of the 2017 Work Programme). This will result in more data becoming available for re-use. However, it is necessary to adopt further actions to reach the Commission's overall objective of findable, accessible, interoperable and re-usable (FAIR) data by 2020.

Scope: The action will identify one or several areas of research where FAIR data is not yet common practice and what the different barriers are (e.g. technical, legal, behavioural) as well as how to overcome them, covering both publicly funded entities and business actors. It will provide support to make data FAIR, in particular to address the quality of data (e.g. certification), its interoperability and its reproducibility.

The action will identify one or several areas of research funded in Horizon 2020 where sufficient and high-quality research data is available. The action will generate pathfinder case studies for innovative sharing and re-use of research data by publicly funded entities as well as business actors, which demonstrate how data sharing and data re-use can generate a ground breaking innovative product, service, or treatment. Furthermore, the action will financially support the generation of a prototype of such a product, device, service, or treatment. If relevant, the action will support trans/cross-disciplinary research data re-use in this endeavour. For the pathfinder case studies preference should be given to research data generated with EU funding, in particular in Horizon 2020 and, as far as available, previous framework programmes<sup>21</sup>.

To address this specific challenge, proposals may benefit from a broad coverage. It is therefore suggested that consortia could include at least entities from 10 different Member

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<sup>21</sup> The Horizon 2020 open research data mandate (extended Open Research data Pilot) covers primarily research data underlying a publication. However, projects can go beyond this and also make datasets which are not linked publications openly available.



States or Associated Countries, although smaller consortia will also be eligible and may be selected.

The Commission considers that proposals requesting a contribution from the EU of the order of EUR 3.00 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Expected Impact: The action will increase the visibility of the Commission's open FAIR data policy (extended Open Research Data Policy) and the research data which has become available as a result through a) dedicated communication activities, and b) networking of relevant actors with a cross-and inter-disciplinary perspective, including industry.

The re-use of research data generated with public funding is expected to have a beneficial impact for science, the economy and society. The wider accessibility of results is expected to increase the reproducibility of research. Additionally, re-use of research data can cross-fertilise interdisciplinary research, which is essential for addressing the grand challenges of our time. It can also boost citizen science. Furthermore, enabling the re-use of research data is expected to create added value for innovative companies (including SMEs and start-ups) which form the bed rock of the digital single market.

The Key Performance Indicators are the following:

1. Increase in FAIR data in those domains identified by the beneficiaries for action
2. Contribution of the pathfinder case studies to innovative data sharing and re-use

Type of Action: Research and Innovation action

***The conditions related to this topic are provided at the end of this call and in the General Annexes.***

**SwafS-05-2018-2019: Grounding RRI practices in research and innovation funding and performing organisations<sup>22</sup>**

Specific Challenge: Institutional changes are required to respond to the increased interactions between R&I stakeholders in society. Through institutional changes, research funding and performing organisations become more “porous” and accept inputs from citizens and organisations that used to be considered outsiders to the world of R&I. Examples include citizen science, extended peer review in funding agencies, co-creation of public policies, agenda setting in research and innovation programmes, co-production of research and innovation content, and co-evaluation of proposals, activities or other R&I funding decisions.

Good practices are widespread in Europe in terms of:

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<sup>22</sup> It is expected that this topic will continue in 2020.

1. Citizens' and citizens' associations engagement in science;
2. Formal and informal science education;
3. Gender equality in science;
4. Research ethics and integrity;
5. Open access to research results.

The good practices in these five fields are much more easily, efficiently and sustainably implemented when the organisations funding, performing or associated to R&I have adapted significantly their governance frameworks to open up through a process of institutional change.

Scope: Consortia are expected to implement institutional changes in at least one but preferably all five fields listed above as part of an integrated approach. All scientific disciplines are covered. Consortia members should aim to ensure that the institutional changes are sustainable beyond the lifetime of the project funding.

The action is addressed at organisations funding or performing activities in the field of R&I as one of their significant objectives or activities. All parts of the "quadruple helix" model, which sees close co-operation between industry, government, universities and society (e.g. citizens and Civil Society Organisations) in R&I, are addressed – and it is encouraged that consortia ensure truly engaged roles for all organisation types. Consortia should be composed of organisations that already have some experience of processes of institutional change and beginners, so as to encourage mutual learning. In addition, priority should be given to the development of new partnerships.

The Commission considers that proposals requesting a contribution from the EU in the order of €1.50 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Expected Impact: Results should contribute to a greater involvement of all stakeholders in R&I, and a better and more sustainable engagement with citizens and society as a whole. Consortia are expected to contribute to one or more of the MoRRI indicators, in particular GOV2 & GOV3<sup>23</sup>, and to the Sustainable Development Goals (for instance goals 4, 5, 9, 12, 16 or 17)<sup>24</sup>. Consortia are expected to evaluate their activities and provide evidence of societal, democratic, economic and scientific impacts of institutional changes. The expected number of institutional changes, including their quality and sustainability in partner organisations, will be taken into account in evaluation. As such, it is expected that the topic will support a significant number of impactful and sustainable institutional changes in partner organisations.

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<sup>23</sup> Link: [http://www.technopolis-group.com/wp-content/uploads/2016/12/2171\\_D3.2.pdf](http://www.technopolis-group.com/wp-content/uploads/2016/12/2171_D3.2.pdf) (Table 3.2)

<sup>24</sup> <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>.

Type of Action: Coordination and support action

***The conditions related to this topic are provided at the end of this call and in the General Annexes.***

### **SwafS-06-2018: Science4Refugees**

Specific Challenge: The Science4Refugees initiative is directed towards researchers/scientists with refugee background, which will enable them to continue their educational path or enter the European research labour market. Under the header "Science4Refugees", as part of the EURAXESS initiative, the integration into the European researchers' community as part of the labour force shall be enhanced.

Information available on education level of recently arrived refugees and asylum seekers points to a rather wide distribution across education level. To integrate them into Europe's research system, specific measures are requested in terms of integrating the highly skilled refugees into the labour market and to better understand the different cultural backgrounds.

The objective of the call is raising the awareness of refugee researchers of jobs and career development opportunities in Europe. Activities can directly address support for the job seeker but should also address the relevant skills assessment and training of the refugee researcher to increase his/her chances on a competitive European labour market. They can also comprise activities like open lectures, academic networking initiatives and training on how to reach the appropriate qualifications for the higher education system in the new country.

Scope: This action is addressed to legal entities such as universities, NGOs, the EURAXESS Service Centres to bring involuntary immigrants with a refugee background into the European research labour market in the new host country.

Collaboration or coupling with national labour market initiatives are welcome, however the involvement of an accredited EURAXESS Centre would be beneficial for their experience in welcoming international researchers. These initiatives will give refugees researchers/scientists the opportunity to develop their knowledge and careers by improving their skills and employability.

The funded initiatives shall contribute to the overall scope of the EURAXESS initiative so that projects can be taken up and enlarged to a European level, e.g. webinars on entrepreneurship, research field specific training or any other training need will be uploaded in the relevant section of the EURAXESS portal.

The Commission considers that proposals requesting a contribution from the EU in the order of EUR 0.25 million would allow this specific challenge to be addressed appropriately. Nevertheless, this does not preclude submission and selection of proposals requesting other amounts.

Expected Impact: Provide support for the career development of refugee researchers, both women and men, to support their integration into their new employment settings and culture, and to prepare female and male refugees for the highly competitive and highly skilled job market. In the medium term, the action aims at supporting research jobs and growth; it will increase the number of highly skilled workers who are sufficiently prepared to access the European labour market by using their newly gained skills and experience through the supported actions.

Type of Action: Coordination and support action

***The conditions related to this topic are provided at the end of this call and in the General Annexes.***

### **SwafS-07-2019: EURAXESS TOP V**

Specific Challenge: EURAXESS aims at helping researchers and entrepreneurs to advance their career in Europe and thus make research and innovation more attractive, both for researchers in Europe who are facing career decisions and for those who are currently outside Europe and might consider relocating to Europe to develop their careers. From mainly mobility support, the EURAXESS network shall become the reference tool also for career development of researchers in public or private institutions.

Scope: The objective of the action is to further intensify the services provided by the EURAXESS Service Centres by expanding their mandate of taking care of the early career development of researchers and entrepreneurs in Europe with particular focus on female Higher Education Institution students and researchers. The services of the EURAXESS network will reach out to mobile and non-mobile researchers and entrepreneurs with the aim of contributing to European policy developments in this area on opening new career trajectories in industry, thus including start-ups. This action will support activities of the EURAXESS Service Network represented by Bridgehead Organisations to address strategic issues related to support services of the network. The further diversification of career development and/or support for dual careers centres will be expanded over a wider geographical range of the network, support to researchers and young entrepreneurs for start-ups in SMEs and industry and concepts for better integration of researchers into the culture of the host country and to the culture of a business environment, as well as mentoring programmes for researchers.

Other services for researchers will be proposed: for instance, national EURAXESS websites will provide information on start-up schemes and skills for researchers in the respective country and relate to policy information as provided on the European EURAXESS portal about EU research policies for researchers and EU schemes developing more career opportunities. This includes issues related to a Global and a European Research Area and Responsible Research and Innovation. Activities such as the deepening of existing services through trainings, seminars, networking and updating of national EURAXESS portals will also be part of this action.

The Commission considers that proposals requesting a contribution from the EU of the order of EUR 3.00 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Expected Impact: Better take up of career development guidance and the collaboration with start-ups and SME will open new career options for researchers and accelerate knowledge transfer to industry and fast take up of research results.

Increased job and funding opportunities on the EURAXESS Jobs portal and personalised assistance to researchers will accelerate the career development of young researchers, in particular female researchers. In the medium term, the action will produce efficiency gains and reduce transaction costs by creating a better match of existing talent and R&I needs and capacity in European research institutions and businesses. It will contribute directly to the Horizon 2020 objective of cross-national and international circulation of researchers; it will increase the number of researchers who have access to research infrastructures through Union support and the number of excellent researchers overall. It will contribute to meeting ERA objectives on gender equality. Over time, the action will contribute directly towards European targets on R&DI intensity and percentage of researchers in the active population, and to boost European research and innovation competitiveness.

By increasing the service level of the whole EURAXESS Services Network, the benefit for the research community will be long-lasting and far-reaching.

Type of Action: Coordination and support action

*The conditions related to this topic are provided at the end of this call and in the General Annexes.*

### **SwafS-08-2019: Research innovation needs & skills training in PhD programmes<sup>25</sup>**

Specific Challenge: Within the New Skills Agenda (adopted in June 2016)<sup>26</sup> and in the Modernisation Agenda (adopted in May 2017)<sup>27</sup> specifications on innovative employment-oriented curricula recommendations are described. The Open Science Agenda incorporates activities which makes it crucial for Higher Education Institutions to integrate new or existing skills courses into PhD programmes and to train data stewards. Especially the formal integration of skills courses developed with and by non-academic actors and provided in non-academic surroundings into curricula, will be a specific challenge.

Scope: A broad package of skills-related training, integration and intelligence for researchers and scientists in all career stages will need to be developed. Preferably pilots will be organised by (or in cooperation with) experienced projects which already received EU funding or are currently funded under Erasmus+, Horizon2020, ITN, MSCA. In all cases,

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<sup>25</sup> It is expected that this topic will continue in 2020.

<sup>26</sup> <http://ec.europa.eu/social/main.jsp?catId=1223>

<sup>27</sup> [https://ec.europa.eu/education/sites/education/files/he-com-2017-247\\_en.pdf](https://ec.europa.eu/education/sites/education/files/he-com-2017-247_en.pdf)

partners should be able to demonstrate proof of concept and initial impact of the PhD training and reasoning for improving and formally integrating skills training. Initial postgraduate tracking exercises have to be integrated in the proposal, to demonstrate ability to trace postgraduates during employment (including sex-disaggregated data). Counselling initiatives of PhD candidates and PhD graduates into focussed careers in and outside academia should be provided.

The Commission considers that proposals requesting a contribution from the EU between EUR 0.75 million and 1.00 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Expected Impact: Impact is expected on post-graduate candidates and early stage researchers, careers, in closing the skills gap between research employment in academia and beyond academia. Expected impact also on the improvement of the innovation potential of future PhD candidates, by joint design of skills training courses and curricula of consortium partners into modernised PhD programmes. Expected impact on the joint collaboration between academia and stakeholders in the regions (hubs) by improving skills intelligence, skills visibility and comparability for better career choices; learning about future skills needs and employment potential of scientists of all (interdisciplinary) fields. Expected impact on the interdisciplinary and international mobility of researchers working under Open Science in line with the Innovative Doctoral Training Principles (IDTP).<sup>28</sup>

Type of Action: Coordination and support action

*The conditions related to this topic are provided at the end of this call and in the General Annexes.*

## **Strategic orientation 2. Stepping up support to Gender Equality in Research & Innovation policy**

Gender Equality Plans are the main policy instruments promoted through the European Research Area to advance gender equality in research organisations and universities. Based on progress so far, actions will be adapted to catalyse the changes in response to the three objectives: gender equality in scientific careers, gender balance in decision making, and the integration of the gender dimension in research content. Additionally, considering the evolution of the research systems in Europe, gender aspects of scientific careers and decision-making processes will be investigated to gather updated evidence for future policy action. Finally, a major and recent challenge is to better integrate the gender dimension in research and innovation programmes and projects. Following the uptake of the gender dimension in Horizon 2020 and in some national research agencies, it is time to take stock of what has been done so far, and design the next steps in terms of process and knowledge. This will enhance the societal relevance of the produced knowledge, technologies and innovations and contribute to the production of goods and services better suited to potential markets.

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<sup>28</sup> <https://euraxess.ec.europa.eu/belgium/jobs-funding/doctoral-training-principles>

Proposals are invited against the following topic(s):

**SwafS-09-2018-2019: Supporting research organisations to implement gender equality plans** <sup>29</sup>

Specific Challenge: Gender equality is a key priority set with the Member States and Associated countries in the European Research Area. Research funding and performing organisations and universities are invited to implement institutional change through Gender Equality Plans (GEPs). The Council conclusions of 1/12/2015 <sup>30</sup> acknowledged the contribution of gender equality to the quality of research and innovation. It reaffirmed the need for sustainable cultural and institutional change along the three following objectives:

1. Removing barriers to the recruitment, retention and career progression of female researchers;
2. Addressing gender imbalances in decision making processes;
3. Integrating the gender dimension in research and innovation content<sup>31</sup>.

The GEAR tool developed by the European Commission and EIGE<sup>32</sup> regrouped the state of the art knowledge and practices on institutional change and provided a step-by-step guide on how to set up and implement GEPs.

Scope: The action should focus on implementing Gender Equality Plans (GEPs) in research organisations and universities, as "drivers" for systemic institutional changes. The GEPs should be developed using a coherent approach, referring to the GEAR tool step-by-step guide. The proposed GEPs structure will include at least the following:

- Conduct assessment / audit of procedures and practices with relevant data to identify gender bias at organisation level;
- Implement effective actions to be developed over time, according to the identified bias;
- Set targets and monitor progress via indicators at organisation level.

The proposals will explain the planned GEPs in the context of existing national provisions and national action plans (legislation, specific incentives, etc.) relating to gender equality in research and innovation. The proposal should also explain previous steps taken by the organisation for gender equality.

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<sup>29</sup> It is expected that this topic will continue in 2020.

<sup>30</sup> <http://data.consilium.europa.eu/doc/document/ST-14846-2015-INIT/en/pdf>

<sup>31</sup> i.e. taking into account the biological characteristics and the social / cultural features of women and men

<sup>32</sup> <http://eige.europa.eu/gender-mainstreaming/tools-methods/GEAR> - GEAR Tool supports the research community with a practical steps-by-steps guide, an action toolbox as well as with many arguments, background information and good practices to develop tailor made Gender Equality Plans for universities and research organisations.

The proposal will provide proof of long term commitment in the implementation of GEPs from their highest management level. The role of middle management and relevant departments of the partner organisations in the implementation of the GEPs shall be described.

The proposals will include a methodology for impartially evaluating the progress made on the impact the gender equality plans had on structural change throughout the duration of the project. A specific work package(s) and deliverable(s) should be introduced in the proposal for this purpose.

Special emphasis will be placed on the sustainability of the GEPs to be implemented and on project follow-up initiatives.

The allocation of resources within the consortium will focus on the implementation of GEPs in the partner organisations. These partner organisations must be at a starting/initial stage in the setting-up and implementation of gender equality plans. It is recommended that the proposals should allocate the majority of funding to setting-up and implementing GEPs. The proposal will explain the role of partners not implementing GEPs and their specific contribution in line with the text and requirements of the topic.

Participation of professional associations in the consortium is recommended.

Project duration of at least 48 months is recommended.

The Commission considers that proposals requesting a contribution from the EU between EUR 2.50 million and 3.00 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Expected Impact: The proposed action will contribute to increasing the number of research organisations and higher education establishments implementing gender equality plans. The individual implemented GEPs should be shared on the GEAR tool<sup>33</sup>.

The expected impacts are:

- Increase in the participation of women in research and innovation and improvement of their careers prospects;
- Improvement of gender balance in decision-making bodies in research organisations;
- Inclusion, where relevant, of the gender dimension in research content and increase in the quality and societal relevance of produced knowledge, technologies and innovations.

In the medium to long term, the implementation of Gender Equality Plans will contribute to the achievement of the ERA.

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<sup>33</sup> The GEAR tool is managed by EIGE, therefore it is easy to check –the GEAR tool provides a platform for sharing experience and guide future GEPs.



Type of Action: Coordination and support action

***The conditions related to this topic are provided at the end of this call and in the General Annexes.***

### **SwafS-10-2018: Analysing gender gaps and biases in the allocation of grants**

Specific Challenge: In many countries in Europe and at European level the major part of the research budget is allocated in the form of grants. The allocation of grants and access to funding is consequently an essential component of scientific performance and career progression. The Figures 2015 shows that although the gender gaps in the funding success rates is decreasing at the EU level, men still have a higher success rate than women<sup>34</sup>. Research is needed to better understand the remaining institutional barriers which contribute to maintaining the gender gaps in research funding, as well as the policy changes required to remove such barriers.

Scope: From selected key research and/or innovation fields, the research will situate the role of grants in researchers' careers, identify, map, and analyse the possible differences between women and men researchers at various steps of grant allocation by research funding organisations and their potential consequences on their careers. Factors that create gender biases in the grant awarding processes of research funding organisations will be investigated. The research will give particular attention to the nature and mode of action of hindering and driving factors and investigate their relative weight in the grant awarding processes of research funding organisations. It will suggest how to overcome the hindering factors and arrive at a better level playing field for women and men researchers by adapting the grant systems (institutional change approach). The research will formulate recommendations targeting research funding policy and involve different stakeholders in this process.

A project duration of at least 48 months is recommended.

The Commission considers that proposals requesting a contribution from the EU of the order of EUR 2.00 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Expected Impact: Contribute to more gender equal research grant systems in the EU and to advancing gender equality in research and innovation as requested in the European Research Area.<sup>35</sup> Help EU research and innovation benefit better from male and female scientists' talents and improve the quality of research and innovation and their relevance to society.

Type of Action: Research and Innovation action

***The conditions related to this topic are provided at the end of this call and in the General Annexes.***

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<sup>34</sup> [https://ec.europa.eu/research/swafs/pdf/pub\\_gender\\_equality/she\\_figures\\_2015-final.pdf](https://ec.europa.eu/research/swafs/pdf/pub_gender_equality/she_figures_2015-final.pdf)

<sup>35</sup> [http://ec.europa.eu/research/era/era\\_communication\\_en.htm](http://ec.europa.eu/research/era/era_communication_en.htm)

## **SwafS-11-2019: Scenarios for an award/certification system for gender equality in research organisations and universities in Europe**

Specific Challenge: Through the implementation of Gender Equality Plans (GEPs) in the last years in research organisations and universities a substantial knowledge base and a wide set of practices were established which is accessible in particular in the Gender Equality in Academia and Research - GEAR tool<sup>36</sup>.

Gender Equality Plans are now common in some Member States and Associated Countries, but in others they are in their infancy. The implementation of the Plans as a key instrument for gender equality in the European Research Area and the institutional change they entail in research organisations and universities need to be further promoted and evaluated.

A promising option which is implemented in some countries, could be gender equality award schemes for R&I organisations. Some awarding schemes are also used as drivers for competition in attracting students and researchers and/ or as prerequisite to access funding.

Scope: The action will consist of a feasibility study of a European award/certification system for gender equality in research organisations, including universities. Several options should be investigated.

Based on the experiences of existing schemes and outcomes of previous research and initiatives (e.g. Horizon 2020 projects such as GEDII, and EFFORTI, FP7 ERA-Net Gender-NET<sup>37</sup>), the action will:

- Conduct an in-depth qualitative and quantitative assessment of existing national award/certification schemes for gender equality in research organisations and universities. Particular attention will be given to the national context in terms of legislation, policy and research funding environment to understand the intended and non-intended impacts of each evaluated award scheme.
- Provide a clear framework for at least 3 different options of a European award/certification scheme encompassing the three objectives for gender equality in the ERA, i.e. gender equality scientific careers, gender balance in decision-making positions and in the integration of the gender dimension in R&I content. The options should take into account the possible synergies and linkages with the current Human Resources Strategy for Researchers (HRS4R).

A project duration of maximum 24 months is recommended.

The Commission considers that proposals requesting a contribution from the EU of the order of EUR 1.50 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

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<sup>36</sup> <http://eige.europa.eu/gender-mainstreaming/tools-methods/GEAR>

<sup>37</sup> <https://ec.europa.eu/research/swafs/index.cfm?pg=policy&lib=gender>

Expected Impact: Strengthen the incentives for research organisations and universities to set up Gender Equality Plans. Make progress on gender equality along the three objectives set in the European Research Area, i.e. in scientific careers, in decision-making and in the integration of the gender dimension in R&I content.

Type of Action: Research and Innovation action

*The conditions related to this topic are provided at the end of this call and in the General Annexes.*

**SwafS-12-2019: The gender perspective of science, technology and innovation (STI) in dialogue with third countries**

Specific Challenge: In its Conclusions of 1 December 2015 on advancing gender equality in the European Research Area, the Council invited the Commission and the Member States to consider including, among others, a gender perspective in dialogues with third countries in the area of science, technology and innovation (STI).

The EU Member States and many countries outside the European Union are facing similar challenges in terms of gender equality in STI: gender-related biases are leading to horizontal (disparities among different scientific disciplines) and vertical (low levels of women representation on top positions) segregation. The perception of and support for gender equality varies significantly across cultures. Cultural and institutional barriers turn women away from STI and affect their careers. Also the take up of the gender dimension in research and innovation content<sup>38</sup> is still limited. The EU has developed a strategy for gender equality along three objectives relating to equality in careers, gender balance in decision-making and the integration of the gender dimension in R&I content.

The Commission has pledged reinforced cooperation with third countries under one of the three goals set by the current Commissioner, i.e. *Open to the World*. There is increasing interest from third countries to cooperate with the EU in the field of STI and encourage the mobility of researchers. It is therefore important to develop common solutions for common challenges regarding gender inequalities in STI.

Scope: The project will investigate how gender equality matters are taken into consideration at different levels of international cooperation in the area of science, technology and innovation between the EU and a selected set of third countries, along three objectives, i.e. equality in scientific careers, gender balance in decision making, and the integration of the gender dimension in R&I content. The project will build on the work done by the ERA-related groups in charge of gender equality and international cooperation as well as EU funded projects. It will provide a mapping and a subsequent analysis of how gender equality is taken into account and promoted:

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<sup>38</sup> Taking into account the biological characteristics and cultural / social features of women and men in doing research, innovating and developing technologies

1. in the formal bilateral and multilateral agreements in the STI area between the EU Member States and Associated Countries on one side and the selected third countries on the other side;
2. in the bilateral and multilateral STI implementation activities, including access to grants and the evaluation process;
3. in the dissemination and promotion of the results of international dialogues and cooperation.

The project will also formulate recommendations to enhance the integration of gender equality objectives at the various stages mentioned above.

In line with the strategy for EU international cooperation in research and innovation (COM(2012)497), international cooperation is encouraged.

The Commission considers that proposals requesting a contribution from the EU of the order of EUR 2 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Expected Impact: Improve awareness and implementation of gender equality objectives in the bilateral and multilateral activities between EU Member States and third countries in the area of STI. Contribute to removing potential barriers to the equal treatment of women and men scientists and to integrate the gender dimension in R&I content in international dialogues and cooperation.

Type of Action: Research and Innovation action

***The conditions related to this topic are provided at the end of this call and in the General Annexes.***

### **SwafS-13-2018: Gender Equality Academy and dissemination of gender knowledge across Europe**

Specific Challenge: Gender equality is not only a matter of social justice but also of research performance. Indeed, including a sex and gender analysis enhances the research quality and the societal relevance of the produced knowledge, technologies and innovations. It is therefore recommended that researchers across Europe and beyond acquire adequate knowledge on gender equality and the gender dimension<sup>39</sup>, in general and in their specific fields of research. Universities with gender studies departments are still a minority, and those

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<sup>39</sup> i.e. taking into account the biological characteristics and the social /cultural features of women and men

including gender issues in the curricula of other disciplines are even fewer,<sup>40</sup> limiting the sharing of existing knowledge. The Horizon 2020 interim evaluation recommends further sharing and disseminating knowledge on gender in R&I.

Scope: In an initial phase, this project will design training material for trainers, practitioners and researchers on a variety of issues relevant for gender equality in research and innovation (gender balance, gender dimension, gender bias, etc.). The project should clarify the minimum quality standard of the training material. It should draw knowledge from the GEAR Tool and the Gendered Innovations report, as well as on new knowledge, developed in Horizon 2020, across and beyond Europe.

In a second phase, the project will carry out a series of trainings, such as Moocs<sup>41</sup>, workshops, summer schools, modules, webinars accessible in all the Member States and Associated countries. The project shall target trainers and researchers, in particular in the early stage of their careers with tailored-made activities. The activities shall be designed in a way that they attract men as well as women. A pan-European network of trainers will be established, with the aim of enhancing the sharing of knowledge and practices.

To address this specific challenge, proposals may benefit from a broad coverage. It is therefore suggested that consortia could include at least entities from 10 different Member States or Associated Countries.

The Commission considers that proposals requesting a contribution from the EU of the order of EUR 2.00 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Expected Impact: A better understanding of gender issues within the R&I community. A better uptake of gender issues in R&I and consequently an improvement of the quality of the produced research and innovation. A pan-European trainers' network to better share gender knowledge and practices.

Type of Action: Coordination and support action

***The conditions related to this topic are provided at the end of this call and in the General Annexes.***

### **Strategic orientation 3. Building the territorial dimension of SwafS partnerships**

SwafS will encourage partnerships between universities, formal and informal education institutions (including primary and secondary schools), science museums and centres, governments and public authorities (including regional and local administrations), businesses (including industry and the service sector) and CSOs operating at local, national and European levels. Connecting these different levels with a view to sharing scientific knowledge

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<sup>40</sup> Gender Equality Policies in Public research- 2013 – p.36- <http://bookshop.europa.eu/en/gender-equality-policies-in-public-research-pbKINA26565/>

<sup>41</sup> Massive Open Online Courses

and supporting user-led innovation will require new working methods and governance relations. New ways of opening up R&I broadly to society according to specific contexts will be developed, thus ensuring the involvement of communities in different territorial contexts (e.g. rural vs. urban areas), promotion of gender equality, and consideration and involvement of all people, irrespective of their age, gender, ethnicity and socio-economic background. Territories are understood as geographical areas sharing common features (e.g. economic, social, cultural, environmental).

Proposals are invited against the following topic(s):

**SwafS-14-2018-2019: Supporting the development of territorial Responsible Research and Innovation<sup>42</sup>**

Specific Challenge: The Responsible Research and Innovation (RRI) approach supported by the European Commission since 2011 aims to encourage societal actors to work together during the whole research and innovation (R&I) process to better align R&I and its outcomes with the values, needs and expectations of society. Experience shows that strategies and practices based on RRI can open up R&I to all relevant actors, and improve co-operation between science and society, fostering the recruitment of new talent, and pairing scientific excellence with social awareness and responsibility.

Territories have a specific advantage to address the complexity of the challenges set by the interplay between science and society. Indeed local actors have an intimate knowledge of the physical territorial setting, and local ecology, i.e. the status quo of the complex relationships between cultural, social, economic and political actors, of the local dynamics, history, expectations and requirements as well as specific concerns.

During the last century, local and regional development policies have slowly, unevenly, but surely, integrated dimensions related to science, technology, and innovation (STI). For example, the European Commission supported regional technology plans in the 1990s and regional innovation strategies during the 2000s. Since 2010 the Commission has encouraged regions to develop smart specialisation strategies, based on comprehensive stakeholder involvement, to identify specific fields of industrial and research strengths with a potential for competitive advantages for the region<sup>43</sup>. A more comprehensive approach involving citizens and communities is likely to result in positive impacts on STI and local and regional development.

Territories can work towards the establishment of self-sustaining R&I ecosystems that are characterised by a high degree of openness, democratic accountability, and responsiveness to need by taking action to promote all parts of RRI (i.e. gender equality, science education, open access/open data, public engagement, and ethics). This requires them to bring relevant R&I actors together, for instance citizens and civil society organisations (CSOs), universities,

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<sup>42</sup> It is expected that this topic will continue in 2020.

<sup>43</sup> See COM(2017)376 on Strengthening innovation in Europe's regions: Strategies for resilient, inclusive and sustainable growth.

research institutions, formal and informal education institutions (including primary and secondary schools), governments and public authorities (including regional and local administrations and science policy institutions), businesses (including industry, the service sector and social entrepreneurs) and science mediators. New R&I working methods within and between organisations, including novel and transparent governance relations, would promote greater sustainability and inclusiveness at local, national, EU and global levels.

Scope: For the present topic, 'territory' should be understood broadly. Territories may be defined by any particular area characterised by certain geographical features, or any area with shared cultural, environmental or economic ties.

Consortia should focus activities in more than one territory in Europe (and possibly also in Third Countries), with a view to developing and promoting shared learning and diffusion of governance innovations. Local and regional authorities should be active partners of the consortia, in particular those institutions or parts of institutions responsible for research and innovation. The RRI approach should be integrated in regional development policies, e.g. spatial planning, land use planning, coastal planning, urban development and urban structuring activities (list not exhaustive). Consortia should make strong efforts to ensure the involvement of all kind of citizens, irrespective of their age, gender, ethnicity and socio-economic background.

Consortia should lay out a sequence of actions that open up and transform the R&I ecosystem and governance systems so that they are more open and inclusive.

Consortia will:

- Map their current territorial R&I ecosystem, taking into account and complementing existing mapping exercises such as the Smart Specialisation Platform<sup>44</sup>, the European Cluster Observatory<sup>45</sup>, and the Regional Innovation Scoreboard<sup>46</sup>,
- Reflect on how the system could be more open and inclusive, and
- Consider their place within larger societal, geographical, economic and environmental framework.
- Consequently, proposals should develop concrete actions within individual beneficiaries' organisations (e.g. agenda setting and institutional changes in the fields of gender, ethics, public engagement, science education and open access) and in the territorial context (e.g. local and regional governance relations and decision-making processes).

Changes should be sustainable (i.e. last beyond the lifetime of funding), for instance through the introduction of new forms of decision making, development of business plans or co-operation agreements, and institutional changes in participating organisations.

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<sup>44</sup> <http://s3platform.jrc.ec.europa.eu/>.

<sup>45</sup> [http://ec.europa.eu/growth/industry/policy/clusters/observatory\\_en](http://ec.europa.eu/growth/industry/policy/clusters/observatory_en).

<sup>46</sup> [http://ec.europa.eu/growth/industry/innovation/facts-figures/regional\\_en](http://ec.europa.eu/growth/industry/innovation/facts-figures/regional_en).

The actions should avoid duplicating the analytical and data collection activities of the Smart Specialisation Platform. Previous project findings and good practices should be considered as and when appropriate. Projects such as ONLINE-S3<sup>47</sup> and SEiSMiC<sup>48</sup> could be useful in this regard. The ONLINE-S3 project aims to assist national and regional authorities in the EU to elaborate and revise their smart specialisation agendas, in terms of policies and strategy, whereas the SEiSMiC project helps tackle Europe's biggest urban problems by engaging citizens, identifying social innovation needs, and contributing to future urban policies and research strategies.

The Commission considers that proposals requesting a contribution from the EU of the order of € 2.00 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Expected Impact: Consortia are expected to elaborate and implement a more open, transparent and democratic R&I system in their defined territories. Consortia are expected to evaluate their activities and provide evidence of societal, democratic, environmental, economic and scientific impacts. Involvement in the project should have a measurable transformative and opening effect on organisations involved, which should be sustainable beyond the lifetime of funding. Consortia are expected to contribute to one or more of the MoRRI indicators (for instance GE1, SLSE1, SLSE4, PE1, PE2, PE5, PE7, PE8, E1, OA6, GOV2)<sup>49</sup>, and to the Sustainable Development Goals<sup>50</sup> (for instance goals 4, 5, 9, 11, 12, 13, 16 or 17).

Type of Action: Coordination and support action

***The conditions related to this topic are provided at the end of this call and in the General Annexes.***

### **SwafS-22-2018: Mobilising Research Excellence in EU Outermost Regions (OR)<sup>51</sup>**

Specific Challenge: The EU currently has nine Outermost Regions (ORs), which are an integral part of its territory: Guadeloupe, French Guiana, Martinique, Saint Martin, Réunion, Mayotte (France); the Canary Islands (Spain); and the Azores and Madeira (Portugal). Article 349 of the Treaty on the Functioning of the European Union (TFEU) recognises that the Outermost Regions differ from the rest of the EU in a number of ways that constrain their economic and social development: their remoteness, their insularity, their small size, their adverse topographical and climatic conditions and their dependence on a limited number of local industries. Under European law this Article allows the adoption of specific measures appropriate for the real situations of the ORs. As well as specific constraints, the ORs also

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<sup>47</sup> <http://www.onlines3.eu/>.

<sup>48</sup> <http://www.seismicproject.eu/>.

<sup>49</sup> Link: [http://www.techropolis-group.com/wp-content/uploads/2016/12/2171\\_D3.2.pdf](http://www.techropolis-group.com/wp-content/uploads/2016/12/2171_D3.2.pdf) (Table 3.2)

<sup>50</sup> <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>.

<sup>51</sup> 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 REA and will be implemented by the Commission services.



have unique potential and assets which can benefit the Union. They provide a European presence in strategic areas of the world, and have exceptional geographical and geological characteristics which make them useful laboratories for research and innovation in scientific domains relevant of the future such as biodiversity, terrestrial and marine ecosystems, pharmacology, renewable energies, and the space sciences.

However, participation in Horizon 2020 is inhibited by the fragmentation of the research community in the OR due to the geographic isolation but also lack of commitment of research institutions and missing connectivity with excellent partners in Europe and internationally beyond the traditional links with the European mainland of the same country. Therefore, the potential for excellent research activities based on the above described assets remains largely unexploited. ORs of different countries face similar problems and assets but do not co-operate sufficiently among each other and with European and international partners. Geographical remoteness is an obstacle for visibility and integration into the global and international research communities. In particular improved linkages with neighbouring international co-operation partners outside the EU would facilitate the international dimension of Horizon 2020 in line with the 'Open to the World' strategic goal.

Scope: Proposals should aim to support the OR in preparing their research and innovation actors to participate in the Research Framework Programmes through:

- a mapping of their research and innovation fields of expertise including complementarities with their neighbouring countries' and regions expertise and capacities;
- a mapping of potential partners in the EU and third countries, in particular those in proximity with OR;
- an inventory of their needs to increase their research and innovation capacity;
- an identification of the means to maintain and attract researchers in the OR and to foster the OR R&I ecosystems, as and further development of their smart specialisation strategies.

The above information could also be used to define OR's friendly topics in the future Framework Programme.

Proposals are also expected to include:

- organisation of events with potential identified partners;

- workshops and networking of research and business innovation partners in view of forming consortia for project proposals;
- awareness raising actions targeting the EU and international research community on the OR expertise and capacities.

The Commission considers that a proven track record of on-the-field experience in OR R&I systems will be an asset and contribute positively to the impact of the project.

The duration of the project should be up to three years.

The Commission considers that proposals requesting a contribution up to EUR four million would allow this specific challenge to be addressed appropriately.

Expected Impact: - Increasing the participation of the outermost regions (OR) in the Framework Programmes.

- Reinforce the visibility and recognition of the OR research and innovation expertise and capacities.
- Set up of consortia to prepare research proposals, including European and/or third country researchers.
- Facilitate the identification of future research issues and challenges/missions that are relevant for the needs and innovation potentials of OR and their smart specialisation priorities
- Develop concepts for considering ORs specificities in the future Framework Programme, in line with Article 349 TFEU.
- Strengthened links with European and international research centres.
- Improvement of research capacities in the OR and their participation in research projects.
- Emergence of sustainable R&I ecosystems in the OR.
- In order to ensure maximum impact of the initiative, participants are expected to build on their a proven track record of on-the-field experience in OR R&Is systems

Type of Action: Coordination and support action

***The conditions related to this topic are provided at the end of this call and in the General Annexes.***

#### **Strategic orientation 4. Exploring and supporting citizen science**

Citizen science is emerging as an important policy orientation but is still largely unexplored. It covers a range of different levels of participation: from raising public knowledge about science, encouraging citizens to participate in the scientific process by observing, gathering

and processing data, right up to setting scientific agenda and co-designing and implementing science-related policies. SwafS will focus on the meanings, mechanisms and challenges facing citizen science from local to European and global levels, learning from on-going experiences and innovative grassroots initiatives. Potential aspects to explore include how citizen science can act as a catalyst to develop scientific skills and competences, act as a tool for informal and formal science education of young people and adults, counter perceived anti-intellectual attitudes in society, raise the scientific literacy of European citizens, and promote social inclusion and employability. Moreover, the backdrop of deep and profound implications on science as a discipline, a profession and as a practice, and also on science's relationship with and for society, should also be considered.

Proposals are invited against the following topic(s):

**SwafS-15-2018-2019: Exploring and supporting citizen science<sup>52</sup>**

Specific Challenge: Citizen science is blooming across all scientific disciplines and the humanities. It can potentially bring a wide variety of benefits to researchers, citizens, policy makers and society across the research and innovation cycle, e.g; it can accelerate and sometimes even make possible the production of new scientific knowledge; it can help policy makers monitor implementation and compliance with regulations; it can increase public awareness about science and feeling of ownership of policies; and it can enable faster and evidence-informed reactions to events and better territorial coverage.

At the same time there are difficulties setting up citizen science initiatives – in terms of choosing the optimum methodologies; in terms of quality assurance and validation of the outcomes; in terms of linking the various governance levels, from local to global; in terms of ensuring balanced participation of citizens (e.g. regardless of background, gender and age); in terms of integrity of methods and data; in terms of recognising the work of citizens participating in citizen science initiatives; in terms of managing large numbers of volunteers for many months or even years (and keeping them motivated and responding to their questions).

Furthermore, questions remain unanswered about the potentials of citizen science for society e.g: what is the potential number of citizen scientists and who are they? What are the costs and benefits of citizen science (e.g. in terms of scientific excellence and the economy)? What relationship can and does citizen science have to informal and formal science education? Are there limits to citizen science, and if so what are they?

For the present topic citizen science should be understood broadly, covering a range of different levels of participation, from raising public knowledge of science, encouraging citizens to participate in the scientific process by observing, gathering and processing data, right up to setting scientific agenda and co-designing and implementing science-related policies. It could also involve publication of results and teaching science.

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<sup>52</sup> It is expected that this topic will continue in 2020.

Scope: There are the two sub-topics:

A, Coordination and Support Action - CSA (1 project in 2018): This will provide support to citizen science at the European level. It will also create a mutual learning space where citizen science projects/participants can exchange experiences and successful strategies. It will raise awareness of citizen science among the general public, provide co-ordination support between citizen science initiatives (in particular those funded by SwafS but also working in a spirit of co-operation with established networks of citizen scientists), identify training needs with a view to developing and implementing training to help citizen scientists, and support communication between citizen science and science journalists/science media. It will also identify good practices that incentivise career scientists to engage with citizen science activities.

B, Research and Innovation Actions - RIA (multiple projects in 2018-2019): This will support hands-on citizen science activities. Proposals may focus on one particular area of scientific enquiry or tackle several, though transdisciplinary approaches should be favoured. The intended activities should be clearly defined and result in the development of new knowledge, new technologies, or new means of using existing technological or social innovations better. Activities can explore how citizen science develops scientific skills and competences, act as a tool for informal and formal science education of young people and adults, counter perceived anti-intellectual attitudes in society, raise the scientific literacy of European citizens, and promote social inclusion and employability. Gender, geographical and socio-economic factors should be taken into account so as to ensure activities are open to people from all backgrounds. Effort should be made to evaluate the impacts on society, democracy, the economy, science itself, and the individual citizen scientists involved in the activities. Lines of communication should be established with other relevant SwafS projects in order to share evaluation data and data arising from the citizen science in the spirit of open science.

In line with the strategy for EU international cooperation in research and innovation (COM(2012)497), international cooperation is encouraged.

The Commission considers that proposals requesting a contribution from the EU in the order of € 2.00 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Expected Impact: A. Coordination and Support Action: Strengthened networks, co-ordination and communication among citizen science projects (particularly, but not limited, to those funded by SwafS). Availability of tools, guidelines, or other materials useful to actors inexperienced in organising and supporting citizen science initiatives. Increased awareness amongst the general public of citizen science. Delivery of training to citizen scientists (or potential science practitioners) and resultant increased skills, competences, and scientific excellence. Consortia should choose a basket of indicators to measure the impact of their

work against. In particular, consortia are expected to contribute to one or more of the MoRRI indicators (for instance PE1 to PE10) and to the Sustainable Development Goals<sup>53</sup>.

**B. Research and Innovation Actions:** Development of new knowledge and innovations by citizen scientists. Availability of evaluation data concerning the societal, democratic and economic costs and benefits of citizen science. Consortia should choose a basket of indicators to measure the impact of their work against. In particular, consortia are expected to contribute to one or more of the MoRRI indicators (for instance PE1 to PE10) and to the Sustainable Development Goals<sup>54</sup>

Type of Action: Coordination and support action, Research and Innovation action

*The conditions related to this topic are provided at the end of this call and in the General Annexes.*

### **SwafS-16-2019: Ethics of Innovation: the challenge of new interaction modes**

Specific Challenge: Innovation, from idea to product, and including social innovation<sup>55</sup>, is a main driver for change, a pillar of EU growth and globally for socio-economic development. It addresses key challenges in fields such as the environment and health and improving the quality of life and well-being of citizens.

Over the past years, the modes of interaction between the different stakeholders have evolved significantly. Active participation of citizens in science and innovation has gained prominence. At the same time, new IT tools have profoundly impacted the way in which researchers work and interact. These developments are promising and have numerous advantages. At the same time, however, these new modes of innovation also raise ethical and regulatory considerations, including concerns regarding the protection of participating citizens, their potential exploitation, the collection of big data and related privacy considerations, as well as intellectual property issues.

Scope: In order to maximise the social benefits derived from innovation, the action will assess the ethical, regulatory and governance issues potentially arising in this context. The action should identify what the distinctive elements of innovation ethics would be in this dynamic context.

The role of citizen participation in innovation (including social innovation<sup>56</sup>) must be analysed in order to maximise the effectiveness of this participation for all stakeholders, taking into account possible gender differences. Best practices for an active involvement of

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<sup>53</sup> [http://www.technopolis-group.com/wp-content/uploads/2016/12/2171\\_D3.2.pdf](http://www.technopolis-group.com/wp-content/uploads/2016/12/2171_D3.2.pdf) (Table 3.2)

<sup>54</sup> <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>.

<sup>55</sup> Social innovation as defined and addressed by the 2014 BEPA report "Social innovation: a decade of changes" (pdf version: ISBN 978-92-79-39417-1). For this topic, innovation should be understood as explicitly covering social innovation.

<sup>56</sup> Social innovation as defined and addressed by the 2014 BEPA report "Social innovation: a decade of changes" (pdf version: ISBN 978-92-79-39417-1). For this topic, innovation should be understood as explicitly covering social innovation.

citizens and relevant stakeholders in the innovation processes should be identified. The design and use of IT tools should also be considered in order to optimise stakeholder participation.

In addition, the existing legal environment applicable to citizen participation in research and innovation should be identified, mapped and analysed. Potential regulatory and legal gaps (concerning for example IP rights and ownership of data) should be described and concrete proposals should be presented to address the highlighted gaps.

The analytical work should not be limited to the legal aspects, but also cover current practices (in the EU and beyond) with a view to discussing their ethics and values dimensions and taking into account the lessons learned so as to be able to identify best practices. In doing so, business ethics practices should also be considered.

The action must propose an ethics framework, based on accepted principles<sup>57</sup>, which aim to ensure that innovation remains a process which responds to citizens' needs and values, improves access and avoids a technological divide. Such a framework should focus on the elaboration and implementation of publicly funded research and innovation programmes, as well as public–private partnerships. It should be developed, validated and translated into a set of practical guidelines that enable the effective handling of the identified ethical and regulatory issues.

Such a framework and guidelines must be compatible with and aim to complement the new European code of conduct for research integrity<sup>58</sup> and include, where applicable, measures for benefit sharing. This process necessitates the active involvement of relevant stakeholders to ensure an effective take-up. The effectiveness of the guidelines should be assessed and tested, notably via workshops and focus groups (such science cafes, etc.) involving citizens, industry, researchers and policy makers. In addition, the resulting guidelines should be applied in real-life pilots with quantifiable results. Piloting needs to be carried out in a representative set of Member States in order to test different cultural/socio-political context.

The action should involve innovation agencies and/or research and innovation funding organisations, which are called to apply the results of the project into their internal procedures.

In line with the strategy for EU international cooperation in research and innovation (COM(2012)497), international cooperation is encouraged.

The Commission considers that proposals requesting a contribution from the EU of the order of EUR 3.00 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

**Expected Impact:** Overall, this action will enable more effective handling of the ethical dimension of innovation, in particular regarding the new modes of interaction and

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<sup>57</sup> Including but not limited to sustainability, user and values lead design, duty of care, data quality and trust.

<sup>58</sup> <http://data.consilium.europa.eu/doc/document/ST-14853-2015-INIT/en/pdf>

participation. It will offer a practical and operative tool for all stakeholders confronted with the challenges related to co-design<sup>59</sup> and to new (IT-based) interaction modes. It will practically support the work of a) the designers and funders of research and innovation policies/programmes, b) the ethics committees tasked with evaluating and monitoring innovative programmes and projects, and c) the research integrity bodies responsible for promoting research integrity and research quality. The implementation of the guidelines in pilots are expected to increase their uptake and overall the impact of the action.

Type of Action: Coordination and support action

***The conditions related to this topic are provided at the end of this call and in the General Annexes.***

### **Strategic orientation 5. Building the knowledge base for SwafS**

Understanding the co-evolution of science and society will help proactive and anticipatory policy making. SwafS will examine how societal actors, including young people, behave, understand, react to and interact with science and scientific developments, and their motives for engaging in science-related activities. This includes investigating science communication and science advocacy in the digital world and how science and technology studies and different disciplines (e.g. behavioural sciences, communication studies, gender studies, linguistics, and social anthropology) – and multi/transdisciplinary approaches – can help explain interactions between science and society. This will include a focus on blind spots of research and innovation in relation to people's needs and concerns, in particular due and proportional precaution, scientific uncertainty, means of measuring the integration of RRI in science and innovation, and the gender dimension in research content. Moreover, consideration could be given to rewarding achievement in RRI in its various dimensions to signal the organisations that are more RRI-aware (answering questions such as how such a reward could work and based on which criteria). Another area is implications of deep changes in science and innovation and its interactions with society and the economy, such as the transition to open science and open innovation, and resultant changes in the relationships between science and society.

Proposals are invited against the following topic(s):

#### **SwafS-17-2019: Consolidating and expanding the knowledge base on citizen science**

Specific Challenge: Grassroots initiatives related to citizen science are blooming across the world. Citizen science has the potential to bring a wide variety of benefits to researchers, citizens, policy makers and society and across research and innovation (R&I) cycles. It can make science more socially relevant, accelerate and enable production of new scientific knowledge, help policy makers monitor regulatory implementation and compliance, increase public awareness about science and ownership of policy making, and increase prevalence of evidence-based policy making.

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<sup>59</sup> In particular, the involvement of citizens/stakeholders and the agreement on shared priorities.

The growth of citizen science brings with it a need to understand its breadth and consequences. How is citizen science conducted, who is involved and in what way(s), and what effect(s) does it have on R&I systems, scientists and the citizens involved? What are the different incentives and disincentives for career scientists to get involved in citizen science? What are the enablers and the barriers of citizen science, what are good practices, and what are its limits? It is also important to identify the democratic, societal, economic and scientific benefits of citizen science. Moreover, the deep and profound implications on science as a discipline, a profession and as a practice, and also on science's relationship with and for society, need to be considered.

Scope: This topic will deepen scientific knowledge on citizen science. It will work very closely with and examine and synthesise data arising from existing citizen science projects (in particular, but not limited to, those funded by SWAFS) to better understand participation patterns in citizen science, the types of activities conducted, the transformative potentials of participating in citizen science, challenges faced by citizen scientists, enablers and barriers to participating in citizen science (e.g. in terms of socio-economic status, gender, age, and in terms of R&I policies), and a strengthened knowledge base on its benefits. It will place developments in global and European historical contexts, and develop understanding about the implications of citizen science on science itself, and on science's relationship with and for society. It will involve stakeholders from local to European levels, from all parts of the quadruple helix, and taking into account gender, geographical and socio-economic differences, to develop policy messages that work towards an enabling R&I policy environment for citizen science and maximisation of the benefits of citizen science.

In line with the strategy for EU international cooperation in research and innovation (COM(2012)497), international cooperation is encouraged.

The Commission considers that proposals requesting a contribution from the EU of the order of EUR 2.5 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Expected Impact: Consortia should aim to consolidate and expand the scientific and policy knowledge base about citizen science. They should identify key incentives, disincentives, barriers and enablers to involvement of citizens and scientists. They should document, synthesise, and present evidence about the societal, democratic, economic and scientific benefits (and potential caveats) of citizen science. They should aim to impact on R&I policies by developing implementable policy recommendations and targeting them at key stakeholders. They should aim to indirectly work towards MoRRI indicators<sup>60</sup> (e.g. SLSE4, PE1, PE2, PE3, PE5, PE6, PE7, PE8, PE9, PE10, OA6) and identified and appropriate Sustainable Development Goals<sup>61</sup>.

Type of Action: Research and Innovation action

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<sup>60</sup> See [http://www.technopolis-group.com/wp-content/uploads/2016/12/2171\\_D3.2.pdf](http://www.technopolis-group.com/wp-content/uploads/2016/12/2171_D3.2.pdf) (Table 3.2).

<sup>61</sup> <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>.



*The conditions related to this topic are provided at the end of this call and in the General Annexes.*

### **SwafS-18-2018: Taking stock of the application of the precautionary principle in R&I**

Specific Challenge: In 2000, the European Commission adopted a Communication on the precautionary principle<sup>62</sup> (PP) following several crises in the fields of health and food safety. PP was then seen as enabling rapid response in case of possible danger to human, animal or plant health or to protect the environment, especially in cases where scientific evidence was lacking. The Communication proposed common guidelines on the application of the precautionary principle. Since then, the application of PP has become controversial, with some stakeholders advocating an Innovation Principle (IP), by which potential innovation benefits should be favoured when weighed against potential risks. Yet debate and controversy related to the need to take due and proportionate precautions in research and innovation activities, and to anticipate and assess the potential environmental, health and safety impacts of policies and technologies, continue today. The challenge is to find a balanced approach that allows decisions to be made on a case-by-case basis, responding to the question "how safe is safe enough and how risky is too risky".

Scope: Consortia will take stock of the implementation of PP since 2000 in various contexts, analyse the effects of the PP and propose several scenarios for the future of the PP and IP. Consortia are expected to examine international, EU, national (and sub-national) level initiatives and policies related to due and proportionate precaution. They should examine and analyse recent and on-going controversies, understanding the competing interests and concerns of different stakeholders, and analyse whether and how their views are taken into account, for instance in the media, by pressure groups, citizens, governments, and in policy making.

Consortia should strive to develop new tools or approaches to PP or IP, in order to help policy makers and other stakeholders apply RRI principles, that is, build effective cooperation between science and society, and pair scientific excellence with social awareness and responsibility. These new tools should be created in a full co-creation approach with the different actors involved.

The Commission considers that proposals requesting a contribution from the EU in the order of 2 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Expected Impact: Consortia are expected to contribute to one or more of the MoRRI indicators<sup>63</sup> (in particular PE 1 to 10, E 1 to 3 and GOV1 to 3) and to the Sustainable Development Goals<sup>64</sup> (for instance goals 6, 9, 11, 12, 13, 14 and 15). Consortia are expected

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<sup>62</sup> (COM(2000) 1final)

<sup>63</sup> See [http://www.technopolis-group.com/wp-content/uploads/2016/12/2171\\_D3.2.pdf](http://www.technopolis-group.com/wp-content/uploads/2016/12/2171_D3.2.pdf) (Table 3.2).

<sup>64</sup> <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>.

to evaluate their activities and provide evidence of societal, democratic, economic and scientific impacts.

Type of Action: Research and Innovation action

*The conditions related to this topic are provided at the end of this call and in the General Annexes.*

**SwafS-19-2018-2019: Taking stock and re-examining the role of science communication<sup>65</sup>**

Specific Challenge: Science and innovation are undergoing deep and fundamental changes, in particular thanks to digitalisation (e.g. social media and citizen science). Science communication, which is a discipline, an activity conducted by scientists and other R&I stakeholders, and a career path followed by journalists, informs citizens about science and innovation, opens up R&I to society, and empowers citizens to participate in activities and debate.

Two concurrent developments lead to the growing need to ensure the quality and reliability of science communication: firstly, dwindling resources in science journalism lead to reduced critical assessment and reporting of science<sup>66</sup>; secondly, the rapid diffusion of open access publications and science-related news through social media increase opportunities for all citizens and civil society groups to reach large audiences about science-related issues but sometimes without the editorial oversight and fact-checking established in the traditional media.

Scope: This topic aims to better understand how results from research and scientific methodologies are communicated and perceived by citizens (taking into account age, gender, and socio-economic status), develop improved ways to measure and assess science communication, and identify good practices and policy guidelines to increase the accuracy of (and therefore trust in) science communication. It will increase knowledge about science communication at international, EU and member state levels. It will propose innovative ways to open up science and innovation broadly to society by improving the quality and effectiveness of interactions between scientists and other R&I stakeholders, the media and the public. It will examine the teaching of science communication within scientific disciplines and as a dedicated academic discipline. It will also give attention to existing incentive (and disincentive) structures for scientists and other R&I stakeholders to engage in science communication, for instance in terms of career and scientific reputation. Applicants are welcome to propose other innovative ideas in relation to the above specific challenge.

To address this specific challenge, proposals will include a multi-disciplinary team able to explore well defined communication strategies (journalists, science communicators, scientists and other R&I stakeholders, educators, enterprises, economists, civil society/citizens, legal

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<sup>65</sup> It is expected that this topic will continue in 2020.

<sup>66</sup> See for instance <https://www.aps.org/publications/apsnews/200904/journalism.cfm>

experts, etc.). Specificities related to gender, culture, territorial context and the environment should also be considered.

The Commission considers that proposals requesting a contribution from the EU of the order of EUR 1.2 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Expected Impact: Dissemination of the results should increase the communication of science in terms of quantity and quality, favour the opening of R&I, and the up-take of RRI. It should eventually improve the quality and effectiveness of interactions between scientists, general media and the public.

Type of Action: Research and Innovation action

*The conditions related to this topic are provided at the end of this call and in the General Annexes.*

### **SwafS-20-2018-2019: Building the SwafS knowledge base <sup>67</sup>**

Specific Challenge: Understanding the evolution of science and society will help proactive and anticipatory policy making. This includes examining how societal actors, including young people, behave, understand, react to and interact with science and scientific developments, and their motives for engaging in science-related activities. It encompasses investigating science communication and science advocacy in the digital world, and how science and technology studies and different disciplines (e.g. behavioural sciences, communication studies, gender studies, linguistics, and social anthropology) – and multi/transdisciplinary approaches – can help explain interactions between science and society. This includes a focus on blind spots of research and innovation in relation to people's needs and concerns and in any of the areas or dimensions covered by RRI. Moreover, consideration could be given to rewarding achievement in RRI in its various dimensions to signal the organisations that are more RRI aware (answering questions such as how such a reward could work and based on which criteria). Another area is implications of deep changes in science and innovation and their interactions with society and the economy, such as the transition to open science and open innovation, and resultant changes in the relationships between science and society.

Scope: The present topic is completely bottom-up. Research and innovation actions are invited, using the above specific challenge to help stimulate ideas about where research is most needed.

The Commission considers that proposals requesting a contribution from the EU of the order of € 1 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

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<sup>67</sup> It is expected that this topic will continue in 2020.

Expected Impact: Consortia should choose a basket of indicators to measure the impact of their work against. In particular, consortia are expected to contribute to one or more of the MoRRI indicators<sup>68</sup> and/or to the Sustainable Development Goals<sup>69</sup>. R&I outcomes should help build effective cooperation between science and society, foster the recruitment of new talent for science, and pair scientific excellence with social awareness and responsibility. Scientific and other types of publication should be foreseen.

Type of Action: Research and Innovation action

*The conditions related to this topic are provided at the end of this call and in the General Annexes.*

### **SwafS-21-2018: Advancing the Monitoring of the Evolution and Benefits of Responsible Research and Innovation**

Specific Challenge: Understanding the evolution and the benefits of RRI is crucial to furthering inclusivity, collaboration and transparency in R&I systems. The MoRRI project<sup>70</sup> has developed a monitoring system which provides a first picture of the evolution and benefits of RRI. This needs to be built upon, to deepen understanding of whether and how RRI leads to measurable societal, democratic, scientific and economic benefits, to provide stakeholders with user-friendly yet advanced tools that aid their efforts to improve the outcomes of R&I, and to enable benchmarking with countries in other regions of the world.

Scope: Based on the outcomes of MoRRI, consortia should work to implement an improved RRI monitoring system. One improvement that should be foreseen is consideration of scientific benefits of RRI, in addition to the societal, democratic and economic ones examined and elaborated on by MoRRI. Another improvement that should be foreseen is the development and collection of data on indicators of the benefits of RRI, building on the preliminary work conducted by MoRRI. Other improvements could relate to data reliability, efficiency of data collection, country coverage, balanced stakeholder representation in the monitoring system, ensuring synergies (and avoiding duplication) with other monitoring systems, and the comprehensibility of the indicator system to stakeholders. These and any other improvements may be introduced incrementally, so as to ensure there is sufficient continuity with MoRRI to enable comparison across different data collections. Consortia should publish the results of data collections at suitable regular intervals (e.g. in the second and the fourth year of the project).

This will require thorough review of the existing monitoring system developed by MoRRI, highlighting strengths and areas where improvements could be envisaged; a number of focused desk-based reviews and empirical in-depth studies could be envisaged to fill knowledge gaps about the evolution and benefits of RRI. Links should be established to relevant SWAFS and RRI-related projects, with a view to analysing and synthesising data

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<sup>68</sup> See [http://www.technopolis-group.com/wp-content/uploads/2016/12/2171\\_D3.2.pdf](http://www.technopolis-group.com/wp-content/uploads/2016/12/2171_D3.2.pdf) (Table 3.2).

<sup>69</sup> <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>.

<sup>70</sup> <http://www.technopolis-group.com/morri/>.

they have collected concerning the impacts of their activities and the benefits of RRI. A clear intervention logic for the entire monitoring system should be developed so that the impact pathways between indicators and benefits can be perceived and so that stakeholders at national and EU levels can easily identify where efforts need to be made to improve the outcomes of R&I. Development of an RRI dashboard/online tool should be foreseen, to help stakeholders self-diagnose and react to the monitoring data with concrete policy responses. Technical fiches for every indicator along with detailed notes on data collection should be prepared to enable data collection after the lifetime of the project. Peer-review and other publications and participation in high-level scientific and policy fora are expected. Cross-and/or trans-disciplinarity should be envisaged if the methods and knowledge of different disciplines are required to implement the monitoring system and/or establish causal links between RRI activities and benefits. An advisory board consisting of experts from society, policy, science and innovation should provide yearly independent feedback on the work to the consortium.

In line with the strategy for EU international cooperation in research and innovation (COM(2012)497), international cooperation is encouraged.

The Commission considers that proposals requesting a contribution from the EU in the order of 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. A project duration of five years should be envisaged.

Expected Impact: This topic is expected to lead to an improvement in the monitoring of the evolution and benefits of RRI. Building upon and improving the monitoring system developed by MoRRI, it should implement a robust and replicable monitoring system consisting of a basket of indicators covering the five RRI dimensions and governance. It should provide time-series data with enough continuity with MoRRI's to enable meaningful comparison across data collections. It should enable benchmarking with countries in other regions of the world.

Type of Action: Research and Innovation action

***The conditions related to this topic are provided at the end of this call and in the General Annexes.***

### **Conditions for the Call - Science with and for Society**

Opening date(s), deadline(s), indicative budget(s):<sup>71</sup>

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<sup>71</sup> The Director-General responsible for the call may decide to open the call up to one month prior to or after the envisaged date(s) of opening.

The Director-General responsible may delay the deadline(s) by up to two months.

All deadlines are at 17.00.00 Brussels local time.

The budget amounts for the 2019 budget are subject to the availability of the appropriations provided for in the draft budget for 2019 after the adoption of the budget 2019 by the budgetary authority or, if the budget is not adopted, as provided for in the system of provisional twelfths.

*Horizon 2020 - Work Programme 2018-2020  
Science with and for Society*

Topics (Type of Action)	Budgets (EUR million)		Deadlines
	2018	2019	
	Opening: 05 Dec 2017		
SwafS-01-2018-2019 (CSA)	3.00		10 Apr 2018 (First Stage)
SwafS-20-2018-2019 (RIA)	6.00		13 Nov 2018 (Second Stage)
SwafS-02-2018 (CSA)	2.50		10 Apr 2018
SwafS-03-2018 (CSA)	4.00		
SwafS-04-2018 (RIA)	3.00		
SwafS-05-2018-2019 (CSA)	4.50		
SwafS-06-2018 (CSA)	2.00 <sup>72</sup>		
SwafS-09-2018-2019 (CSA)	6.00		
SwafS-10-2018 (RIA)	2.00		
SwafS-13-2018 (CSA)	2.00		
SwafS-14-2018-2019 (CSA)	6.00		
SwafS-15-2018-2019 (CSA)	6.00		
SwafS-15-2018-2019 (RIA)			
SwafS-18-2018 (RIA)	6.00		
SwafS-19-2018-2019 (RIA)	3.50		
SwafS-21-2018 (RIA)	3.00		
SwafS-22-2018 (CSA)	4.00		
	Opening: 11 Dec 2018		
SwafS-01-2018-2019 (CSA)		4.50	02 Apr 2019 (First Stage)
SwafS-20-2018-2019 (RIA)		6.00	07 Nov 2019 (Second Stage)
SwafS-05-2018-2019 (CSA)		6.00	02 Apr 2019
SwafS-07-2019 (CSA)		3.00	

<sup>72</sup> of which EUR 1.00 million from the 'Europe in a changing world – Inclusive, innovative and reflective societies' WP part.

*Horizon 2020 - Work Programme 2018-2020  
Science with and for Society*

SwafS-08-2019 (CSA)		2.00
SwafS-09-2018-2019 (CSA)		9.00
SwafS-11-2019 (RIA)		1.50
SwafS-12-2019 (RIA)		2.00
SwafS-14-2018-2019 (CSA)		9.50
SwafS-15-2018-2019 (RIA)		10.00
SwafS-16-2019 (CSA)		3.00
SwafS-17-2019 (RIA)		2.50
SwafS-19-2018-2019 (RIA)		3.50
Overall indicative budget	63.50	62.50

Indicative timetable for evaluation and grant agreement signature:

For single stage procedure:

- Information on the outcome of the evaluation: Maximum 5 months from the final date for submission; and
- Indicative date for the signing of grant agreements: Maximum 8 months from the final date for submission.

For two stage procedure:

- Information on the outcome of the evaluation: Maximum 3 months from the final date for submission for the first stage and maximum 5 months from the final date for submission for the second stage; and
- Indicative date for the signing of grant agreements: Maximum 8 months from the final date for submission of the second stage.

Eligibility and admissibility conditions: The conditions are described in General Annexes B and C of the work programme.

Evaluation criteria, scoring and threshold: The criteria, scoring and threshold are described in General Annex H of the work programme.

Evaluation Procedure: The procedure for setting a priority order for proposals with the same score is given in General Annex H of the work programme.

The full evaluation procedure is described in the relevant [guide](#) published on the Participant Portal.

Grant Conditions:

SwafS-05-2018-2019,  
SwafS-15-2018-2019,  
SwafS-17-2019,  
SwafS-19-2018-2019,  
SwafS-21-2018

Grants awarded under this topic will be subject to the following additional dissemination obligations: consortia must make active efforts to freely share, in a timely manner and as appropriate, the research strategies, methodologies, and raw and analysed data deriving from their activities (including any evaluation activities), with the other projects funded by SWAFS subject to these same additional dissemination obligations. .

Applicants must acknowledge and incorporate these obligations in their proposal, outlining the efforts they will make towards this in Annex 1 of the proposal. The respective option of Article 29.1 of the [Model Grant Agreement](#) will be applied.

SwafS-01-2018-2019,  
SwafS-05-2018-2019,  
SwafS-14-2018-2019,  
SwafS-15-2018-2019

For grants awarded under this topic [ beneficiaries may provide support to third parties as described in [part K of the General Annexes of the Work Programme](#). The support to third parties can only be provided in the form of grants. The respective options of Article 15.1 and Article 15.3 of the [Model Grant Agreement](#) will be applied.

Consortium agreement:

SwafS-01-2018-2019,  
SwafS-02-2018,  
SwafS-03-2018,  
SwafS-04-2018,  
SwafS-05-2018-2019,  
SwafS-06-2018,  
SwafS-07-2019,  
SwafS-08-2019,  
SwafS-09-2018-2019,  
SwafS-10-2018,  
SwafS-11-2019,  
SwafS-12-2019,  
SwafS-13-2018,  
SwafS-14-2018-2019,  
SwafS-15-2018-2019,  
SwafS-16-2019,  
SwafS-17-2019,  
SwafS-18-2018,  
SwafS-19-2018-2019,  
SwafS-20-2018-2019,

Members of consortium are required to conclude a consortium agreement, in principle prior to the signature of the grant agreement.



SwafS-21-2018,  
SwafS-22-2018

## **Other actions<sup>73</sup>**

### **1. Expert group to update and expand "Gendered Innovations/ Innovation through Gender"<sup>74</sup>**

Gender and sex analysis is still not fully integrated in all areas of research and innovation in Europe. In 2011, the expert group "Gendered Innovations" was funded by FP7 and developed methods of gender and sex analysis, and case studies on the creative power of the gender dimension in research and innovation<sup>75</sup>. They help scientists integrate the gender dimension into research & innovation (R&I) content. Building on new research and Horizon 2020, it is time for an extensive update of its existing content and the development of new content to showcase state-of-the-art case studies and methods of gender and sex analysis.

Whereas in some disciplines, such as health and social sciences, awareness of the gender dimension has increased over the past years across Europe, much remains to be done in all scientific disciplines. Taking the gender dimension in R&I into account, improves research quality and societal relevance and widens market opportunities. The H2020 interim evaluation underlines the importance to further develop gender knowledge and expertise.

An expert group will be set up, composed of experts with gender expertise from the various fields of R&I and experts with communication expertise. The expert group will analyse how gender and sex analysis in research stimulates innovation and responds better to social needs and interests by opening new perspectives, new questions, and how it can contribute to a more gender equal society. Based on the results of the EU FP7-funded expert group "Innovation through gender" (2011-2012) and Horizon 2020 projects, the expert group will

- a) update previously identified case studies and develop new ones, further refine the methodologies, checklists and other resources adapted to the various fields of research, and,
- b) design awareness raising / training material, including videos and webinars, to promote "Gendered Innovations".

This activity will improve the quality and societal relevance of R&I, or conversely, to show how research is compromised if gender is not taken into account; encourage scientists to integrate the gender dimension in order to ensure innovative solutions to the societal

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<sup>73</sup> The budget amounts for the 2019 budget are subject to the availability of the appropriations provided for in the draft budget for 2019 after the adoption of the budget 2019 by the budgetary authority or, if the budget is not adopted, as provided for in the system of provisional twelfths.

The budget amounts for the 2020 budget are indicative and will be subject to separate financing decisions to cover the amounts to be allocated for 2020.

<sup>74</sup> 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 REA and will be managed by the Commission services.

<sup>75</sup> Available in the Gendered Innovations report and its website ([http://ec.europa.eu/research/swafs/gendered-innovations/index\\_en.cfm?pg=home](http://ec.europa.eu/research/swafs/gendered-innovations/index_en.cfm?pg=home))

challenges that Europe is facing; encourage diverse thinking and consequently lead to innovation in science.

The experts will be highly qualified, specialised, independent experts selected on the basis of objective criteria, following a call for applications published in accordance with Article 10 of Decision C(2016)3301.

These experts, who will be appointed in their personal capacity, acting independently and expressing their own personal views, will be paid a special allowance of EUR 450/day for each full working day spent assisting the Commission, in terms of Article 21 of Decision C(2016)3301. This amount is considered to be proportionate to the specific tasks to be assigned to the experts, including the number of meetings to be attended and possible preparatory work.

Type of Action: Expert Contracts

Indicative timetable: 2018-2020

Indicative budget: EUR 0.50 million from the 2018 budget

## **2. Monitoring gender equality in Research and Innovation - Development, implementation and dissemination of indicators**<sup>76</sup>

The European Commission has defined for the period 2016-2019 a Strategic engagement for gender equality<sup>77</sup> in all EU policies. Gender Equality in Research and Innovation is part of this Strategic Engagement. Furthermore gender equality is one of the priorities of a “Reinforced European Research Area Partnership for Excellence and Growth<sup>78</sup>” (ERA). In its 2015 Conclusions on Advancing Gender Equality in the ERA<sup>79</sup>, the Council invites Member States to ensure regular collection of sex-disaggregated data and in cooperation with the Commission to monitor, with appropriate indicators, the implementation of gender policies, objectives, guiding targets and actions at institutional, national and EU level. In addition The Commission is invited to continue to strengthen the implementation, monitoring and evaluation of all Horizon 2020 objectives related to gender equality.

Overtime a wide-ranging set of statistics on Gender Equality in Research and Innovation has been published, and new impetus is needed to provide sound factual basis for Gender Equality policy in Research and Innovation. This study will update data and indicators on human resources in Science and Technology, Research & Development personnel, seniority grades, education, work- life balance, inclusion of the gender dimension in research and innovation content, boards' composition, funds, institutional change, gender and innovation collected

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<sup>76</sup> 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 REA and will be managed by the Commission services.

<sup>77</sup> [http://ec.europa.eu/justice/gender-equality/files/documents/160111\\_strategic\\_engagement\\_en.pdf](http://ec.europa.eu/justice/gender-equality/files/documents/160111_strategic_engagement_en.pdf)

<sup>78</sup> [http://ec.europa.eu/research/era/era\\_communication\\_en.htm](http://ec.europa.eu/research/era/era_communication_en.htm)

<sup>79</sup> <http://data.consilium.europa.eu/doc/document/ST-14846-2015-INIT/en/pdf>

insofar<sup>80</sup>. In addition it will go beyond taking stock of these data and indicators to match policy needs, with new indicators, based on commonly accepted definitions and with clearly specified coverage.

The study will serve as one of the key tool in monitoring Member States and research organisations towards the achievement of the objectives set in the ERA Roadmap and in other relevant EU or national policies. Policy makers, Research Performing or Funding Organisations as other stakeholders will take benefit of updated statistics which will be used as a benchmark to evaluate the outcome and impact of the undertaken activities.

The budget requested for this action is based on past experience.

Expected impact: It is expected that the development, implementation and wide dissemination of a reliable set of indicators on gender equality in research and innovation will be one of the key tool in driving Member States and research organisations towards the objectives set in the ERA Roadmap and in other relevant EU or national policies.

Policy makers, Research Performing or Funding Organisations as other stakeholders will take benefit of up to date statistics which will be used as a benchmark to evaluate the outcome and impact of the activities undertaken.

Type of Action: Public Procurement - Public procurement - One direct contract

Indicative timetable: 4th Quarter 2018

Indicative budget: EUR 0.45 million from the 2018 budget

### **3. European Union Contest for Young Scientists (EUCYS) 2018<sup>81</sup>**

The European Union Contest for Young Scientists brings together first prize winners of national contests for pre-Higher Education Institution school science projects to compete for prizes and awards. The EU Contest takes place each year in a different location. This Contest provides additional stimulus to young people who have already demonstrated that they are applying science to solve problems. Many go on to become successful scientists. It attracts a considerable level of co-funding in the host country, and high levels of international media attention. International research organisations and similar bodies donate many of the non-monetary prizes.

This action allows for the provision of financial support to third parties in line with the conditions set out in Part K of the General Annexes.

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<sup>80</sup> SHE Figures 2015

<sup>81</sup> 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 REA and will be managed by the Commission services.

This grant will be awarded without call for proposals in line with Article 190(1)(e) of the Rules of applications of Regulation (EU, Euratom) 966/2012, Regulation No 1268/2012 and Article 11(2) of the Rules for participation and dissemination in "Horizon 2020 - the Framework Programme for Research and Innovation (2014-2020)", Regulation (EU) No 1290/2013

Expected Impact: The contest will bring a greater level of awareness, and an interest in science and research among high school leavers. In the medium term, it will help close the skills gap in STEM, as more young people consider enrolling in scientific career paths. In the long term, it will directly contribute towards the objective of a science literate, knowledge society where scientists are aware of social needs.

Legal entities:

Young Scientist of the Year Limited, , c/o BT, Grand Canal Plaza, Grand Canal St., Dublin 4, Ireland

Type of Action: Grant to identified beneficiary - Coordination and support actions

Indicative timetable: 2nd Quarter of 2018

Indicative budget: EUR 0.80 million from the 2018 budget

#### **4. European Union Contest for Young Scientists (EUCYS) 2019 <sup>82</sup>**

The European Union Contest for Young Scientists brings together first prize winners of national contests for pre-Higher Education Institution school science projects to compete for prizes and awards. The EU Contest takes place each year in a different location. This Contest provides additional stimulus to young people who have already demonstrated that they are applying science to solve problems. Many go on to become successful scientists. It attracts a considerable level of co-funding in the host country, and high levels of international media attention. International research organisations and similar bodies donate many of the non-monetary prizes.

This action allows for the provision of financial support to third parties in line with the conditions set out in Part K of the General Annexes.

The standard evaluation criteria, thresholds, weighting for award criteria and the maximum rate of co-financing for this type of action are provided in parts D and H of the General Annexes.

Expected Impact: The contest will bring a greater level of awareness and an interest in science and research among school students. This action will seek to garner collaboration from industry.

Legal entities:

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<sup>82</sup> 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 REA and will be managed by the Commission services.

This grant will be awarded without call for proposals in line with Article 190(1)(e) of the Rules of applications of Regulation (EU, Euratom) 966/2012, Regulation No 1268/2012 and Article 11(2) of the Rules for participation and dissemination in "Horizon 2020 - the Framework Programme for Research and Innovation (2014-2020)", Regulation (EU) No 1290/2013

It is expected that this action will continue in 2020.

To be confirmed in 2018

Type of Action: Grant to identified beneficiary - Coordination and support actions

Indicative budget: EUR 0.80 million from the 2019 budget

## **5. The Euroscience Open Forum (ESOF) 2020 <sup>83</sup>**

The EuroScience Open Forum (ESOF) is a biennial, pan-European, general science conference dedicated to scientific research and innovation.

It is held under the auspices of the researcher organisation Euroscience and dedicated to scientific research and innovation.

It is designed by Euroscience as a unique opportunity in Europe to:

- the latest advances in science.
- dialogue on the role of science and technology in public policy.
- and provoke public interest and engagement, excitement and debate about science and technology.
- the European science community with global partners and perspectives.
- the interplay between science and society and inspire public debate on science-related societal change

A grant support will be offered to this inter/trans-disciplinary pan-European meeting to ensure that a structured and expanded dialogue among all societal actors (researchers, citizens, policy makers, business, third sector organisations, including all social groups) will be developed along the lines of the Science with and for Society Programme. In this context a special emphasis will be put on exploring and supporting further citizen science as an important dimension of open science and as a way to promote further Responsible Research and Innovation through outreach activities, science education or various forms of public engagement with science.

An inclusive and integrated combination of seminars, workshop, debates and round table discussion using new interactive and engaging formats will be provided and centred on Horizon 2020 key societal challenges.

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<sup>83</sup> 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 REA and will be managed by the Commission services.

This grant will be awarded without call for proposals in line with Article 190(1)(e) of the Rules of applications of Regulation (EU, Euratom) 966/2012, Regulation No 1268/2012 and Article 11(2) of the Rules for participation and dissemination in "Horizon 2020 - the Framework Programme for Research and Innovation (2014-2020)", Regulation (EU) No 1290/2013.

It is expected that this action will continue in 2020.

A special emphasis will be put on Science Journalism in the ESOF programme. A European prize award on the topic will be delivered during an ESOF2020 ceremony in the presence of European Commission representatives.

For grants awarded under this topic beneficiaries may provide support to third parties as described in [part K of the General Annexes of the Work Programme](#) either in form of grants or prizes. The respective options of Article 15 of the [Model Grant Agreement](#) will be applied.

Expected impact: The Euroscience Open Forum will raise awareness among a very large public on the further integration of Responsible Research and Innovation (RRI) and Citizen science as a way to contribute to the goal of Open Science. It will also give a picture of the fundamental changes undergoing in science and innovation landscape and its implications for the interactions with society and the economy.

Legal entities:

Trieste International Foundation for Scientific Progress and Freedom , c/o Strada Costiera, 11  
34151 TRIESTE

EuroScience, 1 Quai Lezay Marnésia, F-67000 Strasbourg

Type of Action: Grant to identified beneficiary - Coordination and support actions

Indicative timetable: 2nd quarter 2019

Indicative budget: EUR 1.10 million from the 2018 budget

## **6. Use of individual experts implementing on-site visits under the HR Strategy <sup>84</sup>**

More and more employers of researchers and funders recognise the importance of making research careers in Europe more attractive, and enabling researchers to undertake work of a high calibre in a supportive environment. As a result, a steadily growing number of institutions are voluntarily participating in the Human Resources Strategy for Researchers (HRS4R). Improving Human Resources Management (HRM) will increase the attractiveness of European research careers, particularly for early stage researchers and young people considering research as a career option. The HRS4R is gaining traction across Europe and is accepted as a valuable tool to promote continued improvement in human resources practices for researchers. In the context of the peer-review process to be implemented under the HRS4R, on-site visits will be carried out in research institutions, which have received the HR award. On a selected number of pilot on-site visits to be made, peer-review experts will assess whether the HR Awards received by research institutions should be maintained or withdrawn.

A special allowance of EUR 450/day will be paid to the expert appointed in its personal capacity who acts independently and in the public interest.

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<sup>84</sup> 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 REA and will be managed by the Commission services.

Type of Action: Expert Contracts

Indicative timetable: For 2018, 3rd - 4th Quarter 2018 and for 2019, 1st – 4th Quarter 2019

Indicative budget: EUR 0.25 million from the 2018 budget and EUR 0.65 million from the 2019 budget

## **7. HR Strategy mutual learning seminars<sup>85</sup>**

The activity aims to improve working conditions for researchers. Increased awareness and implementation of the HRS4R across Europe will lead to all major research institutions awarded with the HR logo, while contributing to further recognition of the Strategy. The activity aims at facilitating the take-up of the HRS4R as to advance the human resources policy of an institution. A number of workshops will be organised in selected countries.

Type of Action: Public Procurement - One specific contract using an existing framework contract.

Indicative timetable: 2nd Quarter 2018

Indicative budget: EUR 0.10 million from the 2018 budget

## **8. EURAXESS Portal + IS Coordinator<sup>86</sup>**

Different activities will be undertaken to increase the capacity and ensure the user-friendliness of the EURAXESS portal. They also include technical maintenance, architectural developments, and graphical and functional enhancements related to the most recent political developments. These activities will also encompass services by external information system provider who, on the basis of inputs provided by the responsible Commission services, guarantees the smooth running of the EURAXESS Portal.

The budget requested for this action is based on past experience

Type of Action: Public Procurement - Up to four contracts using an existing framework contract for IT

Indicative timetable: For 2018: 1st Quarter of 2018 (IS coordinator) and 2nd Quarter 2018 (Maintenance). For 2019: 1st Quarter of 2019 (IS coordinator) and 2nd Quarter 2019 (Maintenance)

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<sup>85</sup> 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 REA and will be managed by the Commission services.

The budget requested for this action is based on past experience.

It is expected that this action will continue in 2020.

<sup>86</sup> 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 REA and will be managed by the Commission services.



Indicative budget: EUR 0.30 million from the 2018 budget (IS Coordinator, Maintenance) and EUR 0.30 million from the 2019 budget (Maintenance, IS Coordinator)

### **9. Researchers' Conference 2019**<sup>87</sup>

The researchers' Conference on ERA related matters will discuss topics that directly influence researchers careers, such as gender, open recruitment, access to information, ethics in research, science education, refugee researchers and more.

Type of Action: Public Procurement - One specific contract using an existing framework contract.

Indicative timetable: 2nd Quarter 2019

Indicative budget: EUR 0.25 million from the 2019 budget

### **10. EURAXESS Biennial Conference**<sup>88</sup>

The conference to be held in 2019 will bring together around 200 participants from the 40 EURAXESS member countries and the overseas destinations. It aims at providing an update on the policy agenda, exchange of best practices, enhancement of networking between the members and further strategic development of the activities. The Conference objective is to further discuss how to support the mobility and career development of researchers at European and national level to give visibility to the achievements reached so far, and create a new momentum for the "EURAXESS-Researchers in Motion" activities, supporting the EU's policy agenda in this matter. A particular focus should be placed on the international dimension covered by the EURAXESS Links initiative addressing the "researchers' diaspora" issue.

The budget for this action is calculated according to past experience.

Type of Action: Public Procurement - One specific service contracts under an existing Framework contracts.

Indicative timetable: 2nd quarter 2019

Indicative budget: EUR 0.35 million from the 2019 budget

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<sup>87</sup> 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 REA and will be managed by the Commission services.

The budget for this action is calculated according to past experience.

It is expected that this action will continue in 2020.

<sup>88</sup> 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 REA and will be managed by the Commission services.

It is expected that this action will continue in 2020.

## **11. Promotion of the EURAXESS initiative<sup>89</sup>**

The promotion of the EURAXESS initiative will put a special emphasis on the online presentation (EURAXESS portal). Increased job and funding opportunities on the EURAXESS Jobs portal and personalised assistance to researchers will accelerate the career development of researchers and thus contribute to the policy objective of more jobs and growth.

The budget for this action is calculated according to past experience.

Type of Action: Public Procurement - Two specific service contracts under an existing a Framework contract.

Indicative timetable: 2nd quarter 2018 and second Quarter 2019

Indicative budget: EUR 0.10 million from the 2018 budget and EUR 0.10 million from the 2019 budget

## **12. Industrial Talents dimension of the Innovative Doctoral Training Principles<sup>90</sup>**

In order to remain competitive, Europe must not only invest in generating a sufficiently large pool of human resources for research and innovation, but it must also train researchers to acquire the appropriate set of skills that may enable them to embrace a research and innovation career outside of academia. As a result, many European countries and indeed universities encourage partnerships between academia and industry, but coverage is patchy and uneven across sectors and countries.

This action will put into practice recommendations that will be set out in a feasibility study on fostering industrial talents at European level that will take stock of and evaluate current intersectoral mobility schemes, and if and how an EU initiative could be replicable across different contexts, sectors and countries. Following the study, a series of seminars will be held in 2018 with eminent experts in the field of intersectoral mobility, who will analyse the recommendations from the above-mentioned study and propose a way forward. This action will serve as the implementation of the proposals put forward by the experts.

The EU level initiative, which will be outlined by experts in the seminars carried out in 2018, is expected to facilitate an increase in the level of inter-sectoral mobility in Europe across sectors and borders, thereby equipping researchers with the skills needed for a career outside of academia.

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<sup>89</sup> 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 REA and will be managed by the Commission services.

It is expected that this action will continue in 2020.

<sup>90</sup> 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 REA and will be managed by the Commission services.

Type of Action: Public Procurement - One direct service contract

Indicative timetable: 3rd Quarter 2019

Indicative budget: EUR 2.00 million from the 2019 budget

### **13. International EURAXESS Conference (WORLDWIDE) <sup>91</sup>**

The EURAXESS WORLDWIDE conference shall attract around 150 participants (target audience: European and Brazilian researchers) from all over the country as well as some invited European guest speakers and contributors. The EURAXESS WORLDWIDE conference aims at strengthening cooperation between researchers in the different international communities with the final aim of promoting science as engine of growth and Europe as the place for excellent science. It will focus on topics related to mobility and international cooperation. The event will also be an excellent opportunity to approach the European research-intensive industries.

The budget for this action is calculated according to past experience.

Type of Action: Public Procurement - One specific contract under an existing framework contract.

Indicative timetable: 2nd Quarter of 2020

Indicative budget: EUR 0.20 million from the 2019 budget

### **14. EURAXESS WORLDWIDE implementation<sup>92</sup>**

The objective of the international arm of the EURAXESS initiative is to link Europe to the rest of the world and to promote international collaboration of researchers, mobility and career development. Through their websites, monthly newsletters and activities the EURAXESS WORLDWIDE country representatives maintain the link between Europe and the world. The aim is to promote the attractiveness of Europe to undertake research of EU and non-EU researchers outside Europe. EURAXESS WORLDWIDE officers are located in the following countries and regions: ASEAN, China, India, Japan and North America & South-America. New countries that could be opened during the implementation phase of the framework contract are Russia, Australia-New Zealand and/or South-Africa.

This action will consist of concluding a follow-up framework contract (budget 9 Mio) to support the EURAXESS WORLDWIDE network. The new framework contract will cover more countries or hubs during the contractual period. The first specific contract implementing

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<sup>91</sup> 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 REA and will be managed by the Commission services.

<sup>92</sup> 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 REA and will be managed by the Commission services.

the EURAXESS WORLDWIDE Framework Contract will cover the animation of the network. This specific contract will guarantee the continuity of the operations of the network in the different destinations and allow the extension of the activities to new countries and tasks.

The budget for this action is calculated according to past experience.

Type of Action: Public Procurement - Specific Contract.

Indicative timetable: New framework contract: 1st Quarter 2018. One specific contract under the new EURAXESS WORLDWIDE framework: 1st Quarter 2019

Indicative budget: EUR 2.00 million from the 2019 budget

### **15. RESAVER- Support to RESAVER Pension Fund<sup>93</sup>**

The overall aim of RESAVER Pension Fund is to ensure free circulation of researchers by removing pension as an obstacle to mobility which corresponds to the strategic objectives of the Union policy as stipulated in Article 179 TFEU on the establishment of a European Research Area.

RESAVER Pension Fund is the first multi-country, multi-employers pension fund that enables mobile employees of the research institutions to remain affiliated to the same supplementary pension fund (2nd pillar and 3rd pillar) when moving between different countries and changing jobs.

The pension fund is based on the IORP directive ((2003/41/EC) Institutions for Occupational Retirement Provision) which provides a framework for institutions providing occupational pensions in all EU countries. The pension fund complies with national social and labour law and does not interfere with Member States prerogative in the area of 1st pillar pension.

Operational from 2017, the pension fund is being rolled-out across the European Economic Area.

The purpose of the operating grant is to provide financial support towards the functioning of the RESAVER pension fund in its core activities - over a period that is equivalent to its accounting year - in order to carry out a set of activities detailed in a work programme. Such support is provided not to the implementation of a specific action but to the RESAVER

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<sup>93</sup> 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 REA and will be managed by the Commission services.

This grant will be awarded without call for proposals in line with Article 190(1)(e) of the Rules of applications of Regulation (EU, Euratom) 966/2012, Regulation No 1268/2012 and Article 11(2) of the Rules for participation and dissemination in "Horizon 2020 - the Framework Programme for Research and Innovation (2014-2020)", Regulation (EU) No 1290/2013.

According to article 6.2 E of the Model Grant Agreement, beneficiaries receiving an operating grant financed by the EU or EURATOM budget cannot declare indirect costs for the period covered by the operating grant, unless they can demonstrate that the operating grant does not cover any costs of the action.

Pension Fund annual operating budget or part of it according to Article 177(b) of Regulation (EU) No 1268/2012. To this end, an operating grant will be awarded to RESAVER Pension Fund for 2019.

In the future the eligible costs will be covered from two sources of revenue, namely an additional contribution (membership fee) paid by the employers and a percentage of the total accumulated assets in the pension fund. However, due to the gradual increase of participating institutions and the limited size of assets, a third source of revenue is necessary during the initial phase to cover costs that are eligible according to the Financial Regulation and the Horizon 2020 Rules of Participation.

Funding rate: The maximum rate of Union co-financing is 100% of eligible costs not covered by membership fees and fees on accumulated assets in the pension fund.

Expected impact: RESAVER will remove one of the barriers to researchers' mobility by providing a cross-border supplementary pension fund, and it will thereby contribute to the establishment of a European Research Area in which researchers circulate freely as set out in Article 179 TFEU.

Selection Criteria: The standard evaluation rules are listed in Annex H of the Work Programme

Award criteria, scores and weighting: The standard evaluation rules are listed in Annex H of the Work Programme

Evaluation procedure: The applicant must submit a work programme for the budgetary year concerned, which will be evaluated by the Commission according to Article 15(8) of Regulation (EU) No 1290/2013. The Commission will provide Member States with detailed information on the evaluation procedure used and its outcome.

Submission and other procedures: By way of derogation from Article 22 of Regulation No 1290/2013 and part B of the General Annexes, the applicant's proposal and the work programme will be submitted on paper. All procedures and templates used for the publication, submission, evaluation, award and monitoring of the grant will be on paper, whereas the online system that supports Horizon 2020 actions does not allow proceeding electronically or does not provide the relevant template.

Legal entities:

'RESAVER Pension Fund OFP' (Retirement Savings Vehicle for European Research Institutions), 22, Rue de Pascale, 1040 Brussels. Belgium

Type of Action: Grant to identified beneficiary - Operating Grant

Indicative timetable: 1st quarter of 2019

Indicative budget: EUR 0.29 million from the 2018 budget

## **16. Fostering transnational cooperation between National Contact Points (NCP) in the area of Science with and for Society: follow-up project<sup>94</sup>**

The action will facilitate transnational cooperation between Horizon 2020 NCPs in the area of Science with and for Society, with a view to identifying and sharing good practices and raising the general standard of support to programme applicants, taking into account the diversity of actors that make up the constituency of the Science with and for Society sector. It will involve one consortium of NCPs focussing on transnational cooperation on issues specific to the Science with and for Society sector, within the context of Horizon 2020 calls for proposals.

All activities must be tailored according to the nature of this sector.

The proposal should show that the activities put forward will deliver tangible benefits to potential applicants. Activities should capitalise on relevant work of the previous NCP network project in this sector, and of the 'NCP Academy' ([www.ncpacademy.eu](http://www.ncpacademy.eu)). Various mechanisms may be included, such as benchmarking, joint workshops, enhanced cross-border brokerage events, and specific training linked to the Science with and for Society sector and Responsible Research and Innovation (RRI) and gender as cross-cutting issues.

Where relevant, activities should make use of commonly available tools (e.g. for brokerage and partner search, benchmarking tools, guidebooks, promotional tools etc).

To help close the innovation divide, a substantial component of the proposed activities must be devoted to activities aimed at helping NCPs in those countries that have been participating at low levels in the programme up to now. These activities should help these NCPs rapidly acquire the know-how on NCP operations accumulated in other countries including, for example, training, mentoring, and twinning. They may also include awareness raising actions aimed at increasing visibility of well-qualified potential applicant organisations in the above mentioned countries.

The legal entities listed below are the host organisations of NCPs from EU Member States and Associated Countries that have been officially appointed by the relevant national authorities, and which have expressed a willingness to participate in this proposal. NCPs opting not to be a beneficiary are nevertheless invited and encouraged to participate in the project activities (e.g. workshops), and costs for such participation (e.g. travel costs paid by the consortium) may be included in the estimated budget and be eligible for funding by the Commission.

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<sup>94</sup> 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 REA and will be managed by the Commission services.

This grant will be awarded without call for proposals in line with Article 190(1)(e) of the Rules of applications of Regulation (EU, Euratom) 966/2012, Regulation No 1268/2012 and Article 11(2) of the Rules for participation and dissemination in "Horizon 2020 - the Framework Programme for Research and Innovation (2014-2020)", Regulation (EU) No 1290/2013

In line with Articles 2, 31.6 and 41.4 of the Model Grant agreement, the project arising from this grant will complement other NCP network projects. This means that the beneficiaries and those of the complementary grants must cooperate and provide access to their results. They must conclude a written collaboration agreement regarding the coordination of the complementary grants and the work of the action.

The project must end by August 2020.

Expected impact:

- An improved, more consistent and professionalised NCP service across Europe, thereby helping simplify access to Horizon 2020 calls, and lowering the entry barriers for newcomers,
- An increase in the quality and quantity
- of proposals submitted, including those from countries where success rates are currently lower than average.

***The conditions related to this topic are provided at the end of this call and in the General Annexes.***

Legal entities:

THE ICELANDIC CENTRE FOR RESEARCH (RANNIS), Laugavegur 13, 101, REYKJAVIK, ICELAND

SIHTASUTUS EESTI TEADUSAGENTUUR (ETA<sub>g</sub>), SOOLA 8, 51013, TARTU, ESTONIA

OESTERREICHISCHE FORSCHUNGSFOERDERUNGSGESELLSCHAFT MBH (FFG), Sensengasse 1, 1090, VIENNA, AUSTRIA

AGENZIA PER LA PROMOZIONE DELLA RICERCA EUROPEA (APRE), VIA CAVOUR 71, 00184, ROMA, ITALY

FUNDACION ESPANOLA PARA LA CIENCIA Y LA TECNOLOGIA (FECYT), Calle Pedro Teixeira 8, Planta 2, 28020, MADRID, SPAIN

INSTYTUT PODSTAWOWYCH PROBLEMOW TECHNIKI POLSKIEJ AKADEMII NAUK (IPPT PAN), Adolfa Pawinskiego 5B, 02-106, WARSAW, POLAND

TECHNOLOGICKE CENTRUM AKADEMIE VED CESKE REPUBLIKY (TC AV CR), Ve Struhach 1076/27, 160 00, PRAHA, CZECH REPUBLIC

DEUTSCHES ZENTRUM FUER LUFT - UND RAUMFAHRT EV (DLR), Linder Hoehe, 51147, KOELN, GERMANY

FUNDACAO PARA A CIENCIA E A TECNOLOGIA (FCT), AVENIDA D CARLOS I 126 000, 1249 074, LISBOA, PORTUGAL

ISRAELI INDUSTRY CENTER FOR RESEARCH & DEVELOPMENT (MATIMOP),  
Hamered Street 29 50436, 61500, TEL AVIV, ISRAEL

ACADEMY OF SCIENTIFIC RESEARCH AND TECHNOLOGY (ASRT), KASR EL AINI  
STREET 101 000, 11516, CAIRO, EGYPT

DIENST VOOR WETENSCHAPPELIJKE EN TECHNISCHE INFORMATIE/ SERVICE  
D'INFORMATION SCIENTIFIQUE ET TECHNIQUE (STIS/BELSPO), AVENUE  
LOUISE- LOUIZALAAN 231, 1050, BRUXELLES, BELGIUM

AGENCIJA ZA MOBILNOST I PROGRAME EUROPSKE UNIJE (AMEUP),  
FRANKOPANSKA 26 000, 10000, ZAGREB, CROATIA

IDRYMA PROOTHISIS EREVNAS (RPF), STROVOLOS 123 23422, 2042, LEFKOSIA,  
CYPRUS

ETHNIKO IDRYMA EREVNON (NHRF (EIE)), VAS KONSTANTINOU 48 000, 11635,  
ATHINA, GREECE

ASSOCIATION DES MUSEES ET CENTRE POUR LE DEVELOPPEMENT DE LA  
CULTURE SCIENTIFIQUE, TECHNIQUE ET INDUSTRIELLE (AMCSTI), 292 RUE DU  
FAUBOURG SAINT MARTIN 000, 75003, PARIS, FRANCE

Type of Action: Grant to identified beneficiary - Coordination and support actions

Indicative timetable: 1st Quarter 2018

Indicative budget: EUR 0.60 million from the 2018 budget

## **17. Debate Science! European Youth Parliaments<sup>95</sup>**

The Commission will support the final event of the 'Debate Science! European Student Parliaments'. This activity is in line with the main objectives of the Science with and for Society Programme and Responsible Research and Innovation policy (RRI), and in particular the main objectives of the science education as an integral part of the RRI policy : to build effective cooperation between science and society, to attract youth towards scientific studies and careers, to pair the interest of youth in science with social awareness and responsibility, and to help them to become more active citizens in the field of science. This activity also aligns with the overall objectives of ESOF 2018 to foster European dialogue on science and technology by engaging citizens, and in this case youth, to increase communication and cooperation between science and society. This activity enables to engage youth in debates

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<sup>95</sup> 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 REA and will be managed by the Commission services.

This grant will be awarded without call for proposals in line with Article 190(1)(e) of the Rules of applications of Regulation (EU, Euratom) 966/2012, Regulation No 1268/2012 and Article 11(2) of the Rules for participation and dissemination in "Horizon 2020 - the Framework Programme for Research and Innovation (2014-2020)", Regulation (EU) No 1290/2013



about science and the solutions it can bring to the challenges European Society will face in the future (alongside of learning the democratic decision process).

'Debate Science! European Student Parliaments' is a unique opportunity for European youth to engage in debate on issues relating to science and technology with the help of scientists, and thus to provide insights on the views of youth on themes that will be of importance for future European research and innovation policy. The 'Debate Science! European Student Parliaments' held in Toulouse will be the culmination of a series of local debates carried out in Europe by students at the secondary level of education in different Member States. It consists of a series of events during the period of two years, the final event during the Euroscience Open Forum (ESOF) in July 2018 in Toulouse, France.

This action allows for the provision of financial support to third parties in line with the conditions set out in Part K of the General Annexes.

Expected impact: The impact of this action is important at the national level as well as at European and international levels, given that the activity will take place during the Euroscience Open Forum (ESOF) 2018 in Toulouse. This action will raise awareness among the general public of the importance of science education and on the need to attract youth to scientific careers, especially young girls, in this case through informal science education activities, as part of the concept of Responsible Research and Innovation (RRI) as a cross cutting issue for Horizon 2020 and in the context of European Research Area (ERA).

Legal entities:

Wissenschaft im DIALOGUE GmbH, Wissenschaft im Dialog, Charlottenstraße 80, D-10117 Berlin, Germany

Type of Action: Grant to identified beneficiary - Coordination and support actions

Indicative timetable: 1er Quarter 2018

Indicative budget: EUR 0.10 million from the 2018 budget

## **18. Stocktaking of 20 years of Gender equality in Research and Innovation<sup>96</sup>**

A conference on gender equality is planned to take place under the Finnish Presidency. The conference will take stock of the policy achievements 20 years after the Communication "Women and Science: mobilising women to enrich European research". It will be also an opportunity to reflect on the future strategy and actions at EU level. The conference will

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<sup>96</sup> 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 REA and will be managed by the Commission services.

This grant will be awarded without call for proposals in line with Article 190(1)(e) of the Rules of applications of Regulation (EU, Euratom) 966/2012, Regulation No 1268/2012 and Article 11(2) of the Rules for participation and dissemination in "Horizon 2020 - the Framework Programme for Research and Innovation (2014-2020)", Regulation (EU) No 1290/2013

enhance the dialogue and knowledge sharing between policy makers, academia, research institutions, research funding agencies, researchers and society.

One of the main focus of the conference will be on institutional change. the project will include an assessment of the experience and results/impact of the ERA strategy and the EU co-funded projects on institutional change under FP7 and Horizon 2020.

Expected Impact: the conference will give policy inputs to on-going initiatives relating to gender equality in the European Research Area (ERA) and in Horizon 2020, and feed in the upcoming new framework programme as well as joint policy initiatives.

Legal entities:

Department for Higher Education and Science Policy at the Ministry of Education and Culture- Finland, P.O. Box 29 FI-00023 Government, Finland

Type of Action: Grant to identified beneficiary - Coordination and support actions

Indicative timetable: 2nd Quarter 2019

Indicative budget: EUR 0.20 million from the 2019 budget

## **19. EU Prize for Women Innovators<sup>97</sup>**

Women are underrepresented in terms of creating innovative enterprises. This is an untapped potential for Europe, which needs to optimise all available resources to remain competitive and find solutions to our societal challenges.

This award scheme recognises the role of women in bringing about game-changing innovations to market honouring the outstanding achievements of women running innovative companies. The "EU Prize for Women Innovators" will be awarded to up to four women innovators in total (three women and one young woman innovator, so-called 'rising innovator') who have created the largest impact on the innovation ecosystem by transforming ideas into new and advanced products and/or services for the benefit and wealth of the European citizens.

Three prizes of EUR 0,1 million each and one prize of EUR 0.05 million in the 'rising innovator' category: EUR 0.35 million from the 2018 budget and EUR 0.35 million from the 2019 budget.

The specific rules of the contest will be published each year by the European Commission (on the [Participant Portal](#) but also actively publicised elsewhere to maximise participation), which will directly launch and manage the contest and award the prize based on the judgement of independent experts.

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<sup>97</sup> 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 REA and will be managed by the Commission services.

It is expected that this action will continue in 2020.

Essential award criteria:

Eligible applications will be evaluated by a High-Level Jury. The High-Level Jury will consist of a group of independent experts from business, finance and academia appointed by the Commission.

The prize will be awarded, after closure of the contest, to the contestants who in the opinion of the jury best address the following cumulative criteria:

- Breakthrough Innovation – the company funded/co-funded by the contestant provides cutting edge product or service
- Impact – the cutting edge product or service brings major benefits to citizens and society and the economy
- Inspiration – the contestant has shown active leadership and her role has influenced the success of the company. The contestant has the potential to inspire others.

Eligibility criteria:

The contestant must be a woman. For the Rising Innovator Award, the contestant must be a woman aged 35 years or under.

The contestant must be an ordinarily resident of an EU Member State or of a country associated to Horizon 2020.

The contestant must be the founder or co-founder of an existing and active company which was registered before 1 January year-1<sup>98</sup>].

The contestant will have to provide proof of eligibility and a written presentation of her achievements, as well as support their applications with a link to a video of maximum 90 seconds. The submission consists of a complete application.

For the common Rules of Contest for Prizes please see General Annex F of the work programme.

Expected results: The prizes will boost public awareness of the potential, importance and contribution of women to the innovation ecosystem and create strong role models inspiring other women to become innovators themselves.

Indicative timetable of contest(s):

Stages	Date and time or indicative period
Opening of the contest	Third quarters of 2018 and 2019

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<sup>98</sup> For the contest opening in 2018: 1 January 2017;  
for the contest opening in 2019: 1 January 2018; for the contest opening in 2020: 1 January 2019.

Deadline for submission of application                      Fourth quarters of 2018 and 2019

Award of the prize    First quarters of 2019 and 2020

Type of Action: Recognition prize

Indicative timetable: From Third quarter 2018

Indicative budget: EUR 0.35 million from the 2018 budget and EUR 0.35 million from the 2019 budget

## **20. Expertise<sup>99</sup>**

This action will support the use of appointed independent experts for the monitoring of actions (grant agreements, grant decisions, procurements, financial instruments), and where appropriate include ethics checks.

Type of Action: Expert Contracts

Indicative timetable: 4th quarter 2018 and 4th quarter 2019

Indicative budget: EUR 0.95 million from the 2018 budget and EUR 0.95 million from the 2019 budget

## **21. External expertise for ad hoc tasks related to the implementation of Horizon 2020 Ethics Appraisal scheme<sup>100</sup>**

This action will support the use of independent experts to advise on or assist with the implementation of the Horizon 2020 Ethics Appraisal scheme in view of ensuring and maintaining its quality and effectiveness.

Since the above tasks requires specialised knowledge in research ethics/integrity and the related national and European legal framework (e.g. data protection and privacy, dual use, benefit sharing, etc.) a special allowance of EUR 450/day will be paid to the experts appointed in their personal capacity who act independently and in the public interest.

Type of Action: Expert Contracts

Indicative timetable: 1st Quarter 2018

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<sup>99</sup> 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 REA and will be managed by the Commission services.

It is expected that this action will continue in 2020.

<sup>100</sup> 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 REA and will be managed by the Commission services.

It is expected that this action will continue in 2020.

Indicative budget: EUR 0.05 million from the 2018 budget and EUR 0.05 million from the 2019 budget

## **22. EURAXESS Armenia start-up<sup>101</sup>**

For enlarging the EURAXESS network, a grant will be awarded to the legal entities officially designated by the relevant Ministry in Armenia for a maximum duration of action of 36 months. The Commission contributions are designated for the start-up phase for the organisation of the national EURAXESS network.

Similar type of support has been provided for all new Associated Countries to current and previous framework programmes.

Expected impact: The action will increase the efficiency and effectiveness of Armenia's participation in the EURAXESS network.

### Legal entities:

National Academy of Sciences of the Republic of Armenia, 24 Marshal Baghramjan Avenue  
375019 Yerevan, Armenia

Type of Action: Grant to identified beneficiary - Coordination and support actions

Indicative timetable: 4th Quarter 2018

Indicative budget: EUR 0.20 million from the 2018 budget

## **23. EURAXESS Georgia start-up<sup>102</sup>**

For enlarging the EURAXESS network, a grant will be awarded to the legal entities officially designated by the relevant Ministry in Georgia running for a maximum duration of action of 36 months. The Commission contributions are designated for the start-up phase for the organisation of the national EURAXESS network.

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<sup>101</sup> 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 REA and will be managed by the Commission services.

This grant will be awarded without call for proposals in line with Article 190(1)(e) of the Rules of applications of Regulation (EU, Euratom) 966/2012, Regulation No 1268/2012 and Article 11(2) of the Rules for participation and dissemination in "Horizon 2020 - the Framework Programme for Research and Innovation (2014-2020)", Regulation (EU) No 1290/2013

<sup>102</sup> 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 REA and will be managed by the Commission services.

This grant will be awarded without call for proposals in line with Article 190(1)(e) of the Rules of applications of Regulation (EU, Euratom) 966/2012, Regulation No 1268/2012 and Article 11(2) of the Rules for participation and dissemination in "Horizon 2020 - the Framework Programme for Research and Innovation (2014-2020)", Regulation (EU) No 1290/2013

Similar type of support has been provided for all new Associated Countries to current and previous framework programmes.

Expected impact: The action will increase the efficiency and effectiveness of Georgia's participation in the EURAXESS network.

Legal entities:

Shota Rustaveli National Science Foundation,, Aleksidze Str 1, 0193 Tbilisi, Georgia

Type of Action: Grant to identified beneficiary - Coordination and support actions

Indicative timetable: 4th Quater 2018

Indicative budget: EUR 0.20 million from the 2018 budget

## **Call and other actions 2020**

**Call - Science with and for Society<sup>103</sup>**

*H2020-SwafS-2018-2020-continued*

Indicative budget for 2020: EUR 69.20 million

### **Topics continued in 2020**

#### **1. Accelerating and catalysing processes of institutional change (2018-2020)**

**SwafS-01-2020: Open schooling and collaboration on science education**

**SwafS-05-2020: Grounding RRI practices in research and innovation performing organisations**

**SwafS-08-2020: Research innovation needs & skills training in PhD programmes**

#### **2- Strategic orientation 2. Stepping up the support to Gender Equality in Research & Innovation policy (2018-2020)**

**SwafS-09-2020: Supporting research organisations to implement gender equality plans**

#### **3- Building the territorial dimension of SwafS partnerships,**

**SwafS-14-2020: Supporting the development of territorial Responsible Research and Innovation**

#### **4. Exploring and supporting citizen science**

**SwafS-15-2020: Exploring and supporting citizen science**

#### **5- Building the knowledge base for SwafS (2018-2020)**

**SwafS-19-2020: Taking stock and re-examining the role of science communication**

**SwafS-20-2020: Building the SwafS Knowledge base**

### **New topics in 2020**

#### **1. Accelerating and catalysing processes of institutional change (2018-2020)**

**SwafS.23.2020: The Ethics of Organoids**

**SwafS.24.2020: The Ethics of technologies with high socio-economic impact**

#### **2- Stepping up the support to Gender Equality in Research & Innovation policy**

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<sup>103</sup> *This is the continuation of a call for which information is provided in the first sections of this work programme.*

**SwafS.25.2020: Gender-based violence in research organisations and universities**

**Other actions for 2020**

**1. ESOF 2022**

Type of Action: Grant to identified beneficiary - Coordination and support actions

Indicative budget: EUR 1.00 million from the 2020 budget

**2. EUCYS 2020**

Legal entities:

null

Type of Action: Grant to identified beneficiary - Coordination and support actions

Indicative budget: EUR 0.80 million from the 2020 budget

**3. HR Strategy Mutual Learning Seminars**

Type of Action: Public Procurement - null

Indicative budget: EUR 0.25 million from the 2020 budget

**4. Researchers' Conference 2021**

Type of Action: Public Procurement - null

Indicative budget: EUR 0.25 million from the 2020 budget

**5. EURAXESS Biennial Conference 2021**

Type of Action: Public Procurement - null

Indicative budget: EUR 0.35 million from the 2020 budget

**6. Promotion of the EURAXESS initiative**



Type of Action: Public Procurement - null

Indicative budget: EUR 0.10 million from the 2020 budget

## **7. EU Prize for Women Innovators**

Type of Action: Prize

Indicative budget: EUR 0.35 million from the 2020 budget

## **8. Expertise**

Type of Action: Expert Contracts

Indicative budget: EUR 0.95 million from the 2020 budget

## **9. External expertise for ad hoc tasks related to the implementation of Horizon 2020 Ethics Appraisal scheme**

Type of Action: Expert Contracts

Indicative budget: EUR 0.05 million from the 2020 budget

## Budget<sup>104</sup>

Budget line(s)	2018 Budget (EUR million)	2019 Budget (EUR million)	2020 Budget (EUR million)
<b>Calls</b>			
H2020-SwafS-2018-2020	62.50 <sup>105</sup>	62.50	
<i>from</i> 08.020600	<i>62.50</i>	<i>62.50</i>	
H2020-SwafS-2018-2020-continued			69.20
<i>from</i> 08.020600			<i>69.20</i>
<b>Other actions</b>			
Expert Contracts	1.75	1.65	1.00
<i>from</i> 08.020600	<i>1.75</i>	<i>1.65</i>	<i>1.00</i>
Public Procurement	0.95	5.20	0.95
<i>from</i> 08.020600	<i>0.95</i>	<i>5.20</i>	<i>0.95</i>
Grant to Identified beneficiary	3.29	1.00	1.80
<i>from</i> 08.020600	<i>3.29</i>	<i>1.00</i>	<i>1.80</i>
Prize	0.35	0.35	0.35
<i>from</i> 08.020600	<i>0.35</i>	<i>0.35</i>	<i>0.35</i>
<b>Estimated total budget</b>	<b>68.84</b>	<b>70.70</b>	<b>73.30</b>

<sup>104</sup> The budget figures given in this table are rounded to two decimal places.

The budget amounts for the 2019 budget are subject to the availability of the appropriations provided for in the draft budget for 2019 after the adoption of the budget 2019 by the budgetary authority or, if the budget is not adopted, as provided for in the system of provisional twelfths.

The budget amounts for the 2020 budget are indicative and will be subject to separate financing decisions to cover the amounts to be allocated for 2020.

<sup>105</sup> To which EUR 1.00 million from the 'Europe in a changing world – Inclusive, innovative and reflective societies' WP part will be added making a total of EUR 63.50 million for this call.

