



Gabinete de Promoção dos Programas Quadro ID&I

Fundação para a Ciência e Tecnologia | Agência de Inovação

Oportunidades, desafios e perspectivas de financiamento no Horizonte 2020 - Programa Ciência com e para a Sociedade (SWAFS)

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- ✓ **Contexto**
- ✓ **Programa de Trabalhos 2014-2015: Calls abertas**
- ✓ **O Programa de Trabalhos 2016-2017: estado da arte**



O Programa SWAFS no H2020

Apoiar a UE a tornar-se líder mundial em ciência

Excelência Científica



Fortalecer a liderança industrial em inovação

Liderança Industrial



Abordar as principais preocupações partilhadas por todos os europeus

Desafios Societais



Spreading Excellence – 0,8 B€

Science with and for Society – 0,5 B€

EIT 2,7 B€

JCR 1,9 B€

EURATOM 1,6 B€



Gabinete de Promoção dos Programa Quadro ID&I



- ✓ Os avanços na investigação científica e inovação criaram desafios éticos, legais e sociais que afetam a relação entre ciência e sociedade
- ✓ O contexto de crise aprofundou a necessidade de promover a cooperação entre sociedade e ciência e alargar o apoio social e político às políticas de investigação e a participação na sua definição



O Programa SWAFS pretende contribuir para a resposta dada aos Desafios Societais, desenvolvendo capacidades e formas inovadoras de ligar ciência e Sociedade

- ✓ **Objectivo:** construir uma cooperação efectiva entre Sociedade e Ciência, atrair novos talentos para a investigação científica e associar a excelência científica a uma consciência e responsabilidade social – **Responsible Research and Innovation**



Quatro áreas/objetivos fundamentais:

- ✓ Making Science education and careers development attractive for young people (SEAC)
- ✓ Promoting Gender Equality in Research and Innovation (GERI)
- ✓ Integrating Society in Science and Innovation (ISSI)
- ✓ Developing governance for the Advancement of Responsible Research and Innovation (GARRI)

SEAC – Making Science Education and Careers Attractive for Young People

Tópico	Orçamento	Tipo de ação/orçamento	Data de Submissão
SEAC.1.2015 – Innovative Ways to make science education and scientific careers attractive to young people	9 milhões	RIA/CSA	16 de Setembro 2015 (17h CET)
SEAC.4.2015 – Euraxess outreach to Industry	1,5 milhões	CSA	

SEAC.1.2015 – Innovative Ways to make science education and scientific careers attractive to young people

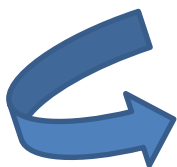
- ✓ **Scope:** *Bringing both girls and boys into the scientific world and scientific careers.*
 - ✓ Responsible Research & Innovation; Dimensão de género; Desafios colocados ao desenvolvimento de carreiras científicas
 - ✓ **“Shall focus on innovative, forward-looking science education methods (...) incentives and methods to make scientific and technological careers attractive” – *abordagem inovadora da proposta;***
 - ✓ **“shall also foster sustainable and cross-cutting interaction between the different levels of the education system, research institutions and other establishments, industry, Civil Society Organisations (CSOs)” - *Consórcio***



IMPACTO

- Influenciar as ações dos EM na educação científica
- Contribuir para atingir as metas Europeias (inovação, género)
- Alcançar o objetivo do H2020 nas capacidades STEM entre os jovens

- ✓ **Scope:** “providing EURAXESS services centres with tools to increase the uptake/use of EURAXESS portals and services by the industry sector.”
 - ✓ Responsible Research & Innovation; Dimensão de género; Open Access
 - ✓ Reforço da ligação com a Indústria – **Mas direccionado para os serviços EURAXESS**
 - ✓ “**shall** include special IT applications for the national EURAXESS portals and mapping of specific needs of the industry sector” and “Activities such as trainings, seminars, networking and updating of national EURAXESS homepages”



IMPACTO

- Impulsionar as carreiras dos investigadores e melhorar as condições de trabalho
- Criar espaço no Mercado de trabalho para os investigadores e aumentar a sua mobilidade

Programa SWAFS: calls abertas em 2015

GERI – Promoting Gender Equality in Research and Innovation

Tópico	Orçamento	Tipo de ação/orçamento	Data de Submissão
GERI.3.2015 - Evaluation of initiatives to promote gender equality in research policy and research organisations	2 milhões	RIA	16 de Setembro 2015 (17h CET)
GERI.4.2014-2015 - Support to research organisations to implement gender equality plans	7 milhões	CSA	



GERI.3.2015 - Evaluation of initiatives to promote gender equality in research policy and research organisations

- ✓ **Scope:** *“The proposals shall develop concepts and methodologies for the evaluation of gender equality initiatives in Europe.”*
 - ✓ “on research quality and productivity as well as innovation”;
 - ✓ “on research organisations and Higher Education Institutions in terms of structure; efficiency, competitiveness, quality of the workplace, recruitment capacity”;
 - ✓ “at research system level in terms of intensity and productivity”



IMPACTO

- Avaliar o impacto das iniciativas para a igualdade de género em curso
- Identificar boas práticas e adaptar as iniciativas
- Contribuir para consolidar o ERA

GERI.4.2015 - Support to research organisations to implement gender equality plans

- ✓ **Scope:** *Aligned with ERA Communication of 2012*
 - ✓ “Gender Equality Plans shall
 - ✓ Conduct an impact assessment / audit of procedures and practices
 - ✓ Implement innovative strategies to address gender bias
 - ✓ Set targets, monitor progress via indicators at organisation level”



IMPACTO

- Aumentar o número de instituições (de investigação e de financiamento de investigação) com estes planos
- Contribuir para estabelecer o ERA, e aumentar o número de mulheres na carreira de investigação

Programa SWAFS: calls abertas em 2015

GARRI – Governance for the advancement of Responsible Research and Innovation

Tópico	Orçamento	Tipo de ação	Data de Submissão
GARRI.2.2015 - Responsible Research and Innovation in industrial context	4,4 milhões	CSA	16 de Setembro 2015 (17h CET)
GARRI.4.2015 - Innovative approach to release and disseminate research results and measure their impact	1,5 milhões	CSA	
GARRI.9.2015 – Estimating the costs of research misconduct and the socio-economic benefit of research integrity	1 Milhão	CSA	
GARRI.10.2015- European Ethics and Research Integrity Network	1,5 Milhões	CSA	



GARRI.2.2015 - Responsible Research and Innovation in industrial context

- ✓ **Scope:** “demonstrate how to implement RRI in process development and in quality of the final outcomes”
 - ✓ “shall foster collaboration between actors (...) to define and implement a roadmap” – **ação a desenvolver**
 - ✓ “active participation of: research performing and/or funding organisations, industry/business/SME, policy makers/public authorities, and Civil Society Organisations (CSO)” – **Consórcio**



IMPACTO

- Intensificar as parcerias entre atores públicos e privados no processo de inovação, e aumentar o valor social da inovação
- Facilitar a emergência de novos modelos de negócio
- Identificar boas práticas
- Generalizar RRI

GARRI.4.2015 - Innovative approach to release and disseminate research results and measure their impact

- ✓ **Scope:** “examine how peer-review develops outside of traditional methods and support it, and how indicators and bibliometrics are adequate for different types of needs and promote them.” – **Relacionado com a promoção do open access**
- ✓ *“current methods of review and measurement of impact remain practical and relevant, or whether more innovative practices are needed, and how.”*



IMPACTO

- Open Science
- Medir o impacto da informação científica em diversos atores

GARRI.9.2015 – Estimating the costs of research misconduct and the socio-economic benefit of research integrity

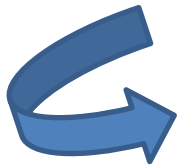
- ✓ **Scope:** “possibility of devising an appropriate methodology in order to be able to calculate the cost of the various impacts of research misconduct”
 - ✓ *“impact on trust and reputation of research and innovation institutions, researchers’ carriers and the well being of citizens and on the environment”*



IMPACTO

- Apoiar o desenvolvimento de uma política de integridade científica coerente e eficiente

- ✓ **Scope:** *“It aims to **identify and share good practices** and raise the awareness of ethics and research integrity among the research community, taking into account the diversity of stakeholders.”*
 - ✓ “Priority is given to the **development of training courses/material**”
 - ✓ “The action must develop **measurable indicators** for the effectiveness of the proposed activities, in particular the **training** and certification aspects.” – **Desenvolvimento de capacidades**



IMPACTO

- Reforçar a capacidade da UE de promover a integridade científica e minimizar comportamentos científicos inapropriados

Programa SWAFS: calls abertas em 2015

ISSI – Integrating Society In Science And Innovation

Tópico	Orçamento	Tipo de ação	Data de Submissão
ISSI.1.2015 - Pan-European public outreach: exhibitions and science cafés engaging citizens in science	7 milhões	CSA	16 de Setembro 2015 (17h CET)
ISSI.3.2015 – Knowledge Sharing Platform	3 milhões	CSA	
ISSI.4.2015 - On-line mechanisms for knowledge-based policy advice	4 milhões	RIA	
ISSI.5.2015 - Supporting structural change in research organisations to promote Responsible Research and Innovation	8 milhões	CSA	



ISSI.1.2015 - Pan-European public outreach: exhibitions and science cafés engaging citizens in science

- ✓ **Scope:** *“Exhibitions and participatory events” and 'science cafés' where “emerging science and technology issues and their Responsible Research and Innovation dimension can be debated”*
 - ✓ **“interactive and adapted** to local/regional conditions (...) local languages”.
 - ✓ **“shall provide material for dissemination** and make use of existing **multimedia** and other relevant technology”
 - ✓ **“shall employ inclusive participatory techniques** to engage with multiple publics”



IMPACTO

- Aumentar o conhecimento público sobre ciência e RRI
- Promover a participação na ciência
- Definição de políticas baseada nos contributos sociais sobre políticas de R&I

ISSI.3.2015 – Knowledge Sharing Platform

- ✓ **Scope:** *“federate Responsible Research and Innovation communities and make RRI and its key dimensions more effective”*
 - ✓ **“shall simultaneously operate and draw from the **networking of relevant projects, service contracts and actors**” and “shall provide an **RRI assessment** and good practice function, and will **disseminate and advocate findings**”**
 - ✓ *“active participation: research performing and/or funding organisations, industry/business/SME, policy makers/public authorities, and Civil Society Organisations (CSO).” - **Consórcio***



IMPACTO

- Facilitar a disseminação do conceito de RRI

- ✓ **Scope:** “proposals **shall** probe the potential and feasibility of on-line services” and how “on-line services will strengthen European capacity for knowledge-based policy analysis and advice”
 - ✓ “**Focus on demand-side, and user-centred solutions** – different languages and institutions”
 - ✓ “the active: research performing and/or funding organisations, industry/business/SME, policy makers/public authorities, and Civil Society Organisations (CSO)”. – **Consórcio**



IMPACTO

- Acesso livre e alargado a serviços on-line que promovam uma definição de políticas assente no conhecimento

ISSI.5.2014.2015 - Supporting structural change in research organisations to promote Responsible Research and Innovation

- ✓ **Scope:** “developing a **Responsible Research and Innovation Plan** covering five RRI keys (societal engagement, gender equality and gender in research and innovation content, open access, science education and ethics) in **each participating institution**”
 - ✓ “**Analysis** of the main problems and challenges” & **Action Plans** – **duas dimensões**
 - ✓ “International dimension” and “different type of actors” - **Consórcio**



IMPACTO

- Produzir **resultados tangíveis e mensuráveis** em termos dos processos e estruturas organizacionais

A considerar no momento das propostas...

- ✓ Explorar os recursos e projetos referidos no Programa de Trabalhos
 - ✓ RRI Toolkit
 - ✓ ERA Roadmap
 - ✓ Ethics Self-Assessment
 - ✓ Gender Toolkit
- ✓ Considerar a ligação a outros projetos/redes quando referidos na descrição dos tópicos
 - ✓ Voices (ISSI)
 - ✓ Scientix (SEAC)



- ✓ Orientação Estratégica: "*Open debates and learning by doing along the lines of Responsible Research and Innovation*" – **continuidade com o Programa de Trabalhos 2014-2015 e ênfase no conceito de RRI**
- ✓ Objetivos:
 - ✓ Implementar mudanças institucionais que promovam o conceito de RRI nas organizações R&I
 - ✓ Ampliar e atualizar o programa SWAFS e o conceito de RRI

Programa de Trabalhos SWAFS 2016-2017 – Novidades

- ✓ Single call for proposals
- ✓ Valor único de referência para orçamento das propostas
- ✓ Contabilização do tempo entre a submissão da candidatura e o grant agreement
 - ✓ 8 meses para todo o processo (máx. de 5 para a divulgação dos resultados)



Programa de Trabalhos SWAFS 2016-2017 – Estado da Arte

Eixos temáticos	Temas dos tópicos	Orçamento*	Datas*
Institutional Change to Support Responsible Research and Innovation in Research Performing and Funding Organisations (2016-2017)	Participatory research, Gender equality, policy and research co-creation, Institutions and Actors, Industry, Open Access	42,6 milhões	8 de Setembro 2016 7 de Setembro de 2017
Embedding Responsible Research and Innovation in Horizon 2020 (2016-2017)	RRI and new frames in H2020, Open Science in practice,	9,9 milhões	
Strengthening the Science with and for Society Knowledge-Base (2016-2017)	Informal Science Education, webs of innovation and RRI, Co-Creation, global RRI	12,8 milhões	
Developing Inclusive, Anticipatory Governance for Research & Innovation (2016-2017)	Open schooling and science education, Ethics and research Integrity Network, Ethics in new treatments and technologies (related with Human Rights), Integrity and research results; RRI, sustainability and governance	35,8 milhões	

*Valores e datas indicativos; terão que ser confirmados após a publicação do Programas de Trabalhos



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