

***Servizos de apoio da OTRI e oportunidades de participación para investigadores da Facultade de Ciencias da Educación en proxectos internacionais***

# **Oportunidades nas vindeiras convocatorias H2020**

Dr. Octavio Pernas Sueiras  
13 de abril 2018



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OTRI

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  - Proxectos individuais: MSCA, ERC
  - Proxectos colaborativos: ITN, RISE
  - Programas de apoio
- Piares II e III – Proxectos colaborativos



# **CIENCIA EXCELENTE - INDIVIDUAIS**



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## Excellent Science

European Research Council (ERC)

Future & Emerging Technologies (FET)

Marie Skłodowska-Curie Actions (MSCA)

Research Infrastructures

## Industrial Leadership

Leadership in Enabling and Industrial Technologies

Access to Risk Finance

Innovation in SMEs

## Societal challenges

Health, demographic change and wellbeing

Food security, sustainable agriculture, forestry, marine, maritime, inland water and bio-economy

Secure, clean and efficient energy

Smart, green and integrated transport

Climate action, environment, resource efficiency and raw materials

Inclusive, innovative and reflective societies

Secure societies – protecting freedom and security of Europe and its citizens

Spreading Excellence and Widening Participation

Science with and for Society

EIT

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# MSCA Objectives

- ✓ Excellent Science Pillar – Horizon 2020
- ✓ Bottom-up approach
- ✓ Funding based on **Unit Costs**
- ✓ Support of the researchers' **career path** at all stages
- ✓ **Mobility** is a key requirement
- ✓ Acquisition of **new and complementary skills**
- ✓ **Strong industry participation**
- ✓ **Excellent working conditions**, gender balance and open recruitment
- ✓ Emphasis on communication and **public engagement activities**



CHE Chemistry	SOC Social Sciences and Humanities	ECO Economic Sciences	ENG Information Science and Engineering	ENV Environmental and Geosciences	LIF Life Sciences	MAT Mathematics	PHY Physics
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# Marie Skłodowska-Curie Actions

 <p><b>ITN</b> Innovative Training Networks</p> <p><b>What does it offer?</b> High-quality research training delivered through interdisciplinary networks, industrial doctorates or joint doctorates.</p> <p><b>Who applies?</b> International networks of research organisations from the academic and non-academic sectors</p> <p><b>Who is funded?</b> Researchers at doctoral level (less than 4 years of full-time research experience and no doctoral degree)</p> <p>Próxima apertura setembro 2018</p>	 <p><b>IF</b> Individual Fellowships</p> <p><b>What does it offer?</b> Opportunities to work on personal research projects by moving between countries and possible sectors to acquire new skills.</p> <p><b>Who applies?</b> Individual researchers together with the host organisations</p> <p><b>Who is funded?</b> Postdoctoral researchers</p> <p>273 Mn € Aberta até 12 setembro 2018</p>	 <p><b>RISE</b> Research &amp; Innovation Staff Exchange</p> <p><b>What does it offer?</b> The exchanges of staff members involved in research and innovation to develop sustainable collaborative projects and the transfer of knowledge.</p> <p><b>Who applies?</b> International networks of research organisations from the academic and non-academic sectors</p> <p><b>Who is funded?</b> Researchers, technical administrative and managerial staff of any nationality and at all career levels</p> <p>Próxima apertura dezembro 2018</p>	 <p><b>COFUND</b> Co-Funding of Regional, National &amp; International Programmes</p> <p><b>What does it offer?</b> Regional national or international programmes to foster excellence in training mobility and career development of researchers</p> <p><b>Who applies?</b> Organisations funding or managing doctoral or fellowships programmes</p> <p><b>Who is funded?</b> Researchers at doctoral and postdoctoral level</p> <p>80 Mn € Aberta até 27 setembro 2018</p>
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# MSCA - IF 2018: European Fellowships

## EUROPEAN FELLOWSHIPS

Standard Panel

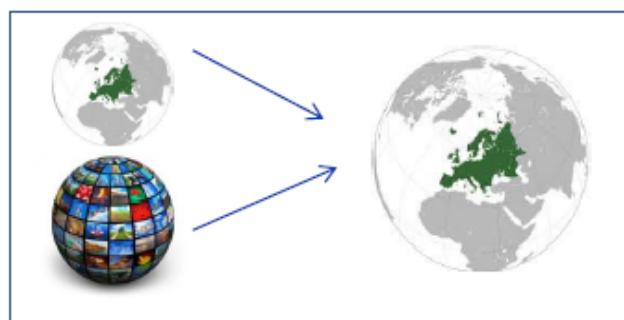
Reintegration  
Panel

Career Restart  
Panel

Society and  
Enterprise Panel



# MSCA - IF 2018: Standard European Fellowships



## STANDARD EUROPEAN FELLOWSHIP

- ER de **cualquier nacionalidad** que deberá desplazarse o haberse desplazado **desde cualquier país al EM / PA** donde esté localizada la **Entidad de Acogida**
- Regla de movilidad:** no + de 12 meses / últimos 3 años en el país de acogida, a fecha cierre convocatoria.
- Duración proyecto:** De 12 a 24 meses (posibilidad de estancias).



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# MSCA - IF 2018: Global Fellowships



- Duración: 12-24 meses fase fuera de Europa + 12 meses de retorno obligatorios en Europa.
- ER elegibles: residentes de larga duración o nacionales MS / AC**
- de cualquier país al país de acogida en Tercer País
- La Regla de movilidad se debe cumplir en el país de acogida en fase fuera de Europa.**
- La entidad beneficiaria siempre estará localizada en EM / PA
- Participación mínima: 1 beneficiario en EM / PA + 1 Partner Organisation en Tercer País
- Cartas de Compromiso** de los Terceros Países



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# MSCA - IF 2018: Eligible researchers and institutions

## Eligible researcher

- ✓ **Experienced researchers (ER):**  
PhD or at least 4 years of full-time equivalent research experience at the deadline of submission: 12/09/2018
- ✓ No upper age or experience limit.
- ✓ Nationality restrictions may apply
- ✓ Mobility rule applies

## • Eligible institution

- ✓ **Beneficiary:** based in Member State (MS) or Associated Country (AC) who will host, recruit and trains the ER.
- ✓ **Partner Organisation (1 and 2):** offers additional training and hosts the researcher during his / her **secondment**.
  - 1) outgoing phase (TC) in Global Fellowships.
  - 2) institutions for secondments in Europe



# MSCA - IF 2018: Project overview

- **Individual research project:** training-through-research under the direct supervision of the supervisor / key staff of the institution.
- **Hands on training:**
  - ✓ for developing scientific skills (new techniques, instruments, etc. )
  - ✓ for developing and acquiring transferable skills (communication, IPR, entrepreneurship, etc...)
  - ✓ Training in aspects such as RRI is essential
  - ✓ Research and financial management of the fellowship
- Intersectoral / interdisciplinary transfer of knowledge (**secondments...**):
  - ✓ Can spend up to 6 months (in total) working in another organisation in Europe
  - ✓ Opportunity to link with industry, NGOs, public sector, national archives, etc.
- **Organizing and taking part in events** (including public engagement)
- Must be managed by a **Career Development Plan**



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# Consello Europeo de Investigación (ERC)



European Research Council  
Established by the European Commission

O Consello Europeo de Investigación (ERC, European Research Council) busca financiar a longo prazo proxectos de investigadores excelentes e de seus equipos de investigación, para desenvolver unha investigación na fronteira do coñecemento e de alto risco.

Exemplo na UDC: ERC StG 2016 – Carlos Gómez, nun panel SH: The Human Mind and Its Complexity (Cognitive basis of human development and education; Learning, memory; etc.)



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# Three types of grants + PoC

## Starting Grants

starters  
(2-7 years after PhD) up  
to € 1.5 Mio  
for 5 years

## Consolidator Grants

consolidators  
(7-12 years after PhD)  
up to € 2.0 Mio  
for 5 years

Advanced Grants  
track-record of  
significant research  
achievements in the  
last 10 years  
up to € 2.5 Mio  
for 5 years

## Proof-of-Concept

bridging gap between research - earliest stage  
of marketable innovation  
up to €150,000 for ERC grant holders



# European Research Council

- Excelencia científica: único criterio de avaliación (IP e proxecto).
- Todos os campos de investigación.
- Proxectos individuais (IP).
- Financiamento atractivo [StG: 1,5 M€] [CoG: 2,0M€] [AdG: 2,5 M€] 5 anos.
- Axudas asociadas ao IP, non a institución.



# ERC CALLS 2018

	<i>Starting Grant</i>	<i>Consolidator Grant</i>	<i>Advanced Grant</i>	<i>Synergy Grant</i>	<i>Proof of Concept Grant</i>
<i>Call identifier</i>	ERC-2018-StG	ERC-2018-CoG	ERC-2018-AdG	ERC-2018-SyG	ERC-2018-PoC
<i>Call Opens</i>	03/08/2017	24/10/2017	17/05/2018	03/08/2017	06/09/2017
<i>Deadline or cut-off dates for PoC</i>	17/10/2017	15/02/2018	30/08/2018	14/11/2017	16/01/2018 18/04/2018 11/09/2018

## ERC CALLS 2019: SIMILAR TIMING!



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# Panel Structure

## Life Sciences

- LS1 Molecular & Structural Biology & Biochemistry
- LS2 Genetics, Genomics, Bioinformatics & Systems Biology
- LS3 Cellular and Developmental Biology
- LS4 Physiology, Pathophysiology & Endocrinology
- LS5 Neurosciences & Neural Disorders
- LS6 Immunity & Infection
- LS7 Diagnostic tools, Therapies & Public Health
- LS8 Evolutionary, Population & Environmental Biology
- LS9 Applied Life Sciences & Biotechnology

## Social Sciences & Humanities

- SH1 Individuals, Markets and Organisations
- SH2 Institutions, Values, Environment and Space
- SH3 The Social World, Diversity, Population
- SH4 The Human Mind and Its Complexity.
- SH5 Cultures and Cultural Production
- SH6 The Study of the Human Past

## Physical Sciences & Engineering

- PE1 Mathematics
- PE2 Fundamental Constituents of Matter
- PE3 Condensed Matter Physics
- PE4 Physical & Analytical Chemical Sciences
- PE5 Materials & Synthesis
- PE6 Computer Science & Informatics
- PE7 Systems & Communication Engineering
- PE8 Products & Process Engineering
- PE9 Universe Sciences
- PE10 Earth System Science



# PROGRAMAS DE APOIO



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Programa de apoyo  
á ciencia excelente



OTL

Oficina de Transferencia de Resultados de Investigación



ES HORIZONTE 2020

Portal español del Programa Marco de Investigación e Innovación de la Unión Europea



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OTL

# PROGRAMA DE APOIO DA UDC Á CIENCIA EXCELENTE



Programa de apoio  
á ciencia excelente

- Atraer talento excelente de calquera parte do mundo á UDC.
- Dar continuidade á carreira investigadora dentro da UDC.
- Incentivar a participación da UDC no piar de Ciencia excelente do Programa H2020.
- Apoiar a concorrencia de investigadores ás ERC grants.



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# Medidas concretas



Programa de apoio  
á ciencia excelente

- Apoio técnico na elaboración da proposta.
- Dispoñibilidade dun espazo físico propio.
- Acceso ao Programa Oportunus da Xunta.
- Negociación de incentivos económicos.
- Acceso a todos os servizos propios.
- Flexibilidade para negociar as condicións.



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# INTALENT

## UDC - INDITEX

**RESEARCH YOUR FUTURE**

PROGRAMA DE CAPTACIÓN DE TALENTO INVESTIGADOR



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**INDITEX**

# ¿Que é?

InTalent é un programa específico de colaboración entre a Universidade da Coruña e Inditex para a contratación de investigadores post-doutorais con proxección e ampla traxectoria internacional baixo o único criterio da **excelencia**.



# INDITEX



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# ¿A quen se dirixe?

Investigadores de cualquier nacionalidad

Un mínimo de 3 años de experiencia postdoctoral

Con interés en convocatorias nacionales e internacionales de ciencia excelente como las ERC, Ramón y Cajal, Juan de la Cierva...

Al menos 2 años de experiencia internacional en centros de I+D

Trayectoria investigadora excelente y capacidad de generar conocimiento nuevo

Potencial como investigador independiente, madurez profesional y prometedora carrera científica



# ¿Qué ofrece o programa?

InTalent ofrece o apoio necesario para o desenvolvemento dun proxecto de investigación nun entorno axeitado, que se concreta en:



Hasta 3 años en la  
UDC  
**CONTRATO**



45.000 €/año  
**SALARIO**  
30.000 €/proyecto  
**INVESTIGACIÓN PROPIA**  
1.000 €  
**TRASLADO E INSTALACIÓN**



Asesoramiento técnico  
Independencia  
investigadora  
Instalaciones para la  
ejecución del proyecto



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# Convocatorias

- 1<sup>a</sup> convocatoria: 2016 (**pechada**)

Contratación de **2 investigadores**

- 2<sup>a</sup> convocatoria: 2017 (**pechada**)

Contratación de **1 investigadora + 1 en trámite**

- **3<sup>a</sup> convocatoria: prevista 3 maio 2018**

- Solicitudes: exclusivamente a través da Sede Electrónica da UDC

- Mais información: [www.intalent.udc.es](http://www.intalent.udc.es)



# **CIENCIA EXCELENTE - COLABORATIVOS**



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# Marie Skłodowska-Curie Actions

	<b>Open now</b>		<b>Open now</b>
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# MSCA ITN: Main features

- Duration of projects: maximum **4 years**.
- **Recruitment of researchers:** min. 3 months – max. 36 months.
- ITN is not a research project, it is a **research training programme**.
- Researchers must be **ESRs** and also comply with **mobility rule**.
- Minimum 3 beneficiaries : 3 countries(MS/AC).
- Each beneficiary must recruit and host at least one researcher at its premises.
- Participation of non-academic sector considered essential.



# MSCA ITN: Eligibility of researchers

## EARLY STAGE RESEARCHES (ESR)

- ESR should be in their first 4 years of research experience and hold no doctoral degree at the time of their first recruitment in the ITN.

*Full time equivalent research, FTE:* is measured from the date when a researcher obtained the degree which would formally entitle him/her to embark on a doctorate, either in the country in which the degree was obtained or in the country in which the researcher is recruited, irrespective of whether or not a doctorate is or was ever envisaged.

- **Mobility rule:** could not have resided or carried out their main activity in the country of the host institution for more than 12 months in the 3 years immediately prior to the first contract in the ITN.
- **No nationality restrictions.**



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# MSCA RISE: Main Features

- Proyecto de **investigación e innovación** desarrollado a través de el **intercambio de personal** de las instituciones participantes.
- **Mejora del personal**, mejora de sus capacidades
- Intercambio de personal internacional y/o inter-sectorial
- Se espera **gran impacto, transferencia de conocimiento** y colaboraciones a medio y largo plazo por parte de los participantes.
- Duración de proyecto: **48 meses**
- Nº de estancias máximo: **540 estancias**
- Duración mínima de 1 mes y máxima de 12 meses para cada persona en el proyecto. Posibilidad de dividir las estancias.



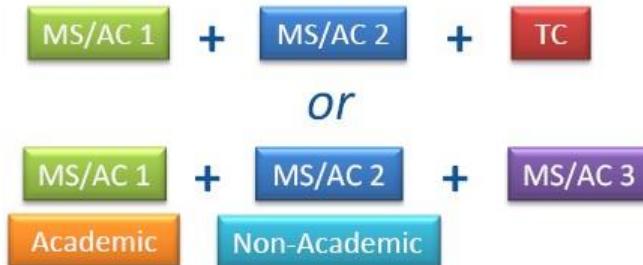
# MSCA RISE: Eligibility of staff involved

- Personal con vinculación con la entidad.
- Importancia del equilibrio de género.
- Tipo de Personal que realiza las estancias:
  - Early Stage Researchers (ESR).
  - Experienced Researchers (ER).
  - Personal técnico, administrativo relacionado con actividades de Investigación e Innovación.
- Después de las estancias el personal debe reintegrarse en la institución.



# MSCA RISE: Eligibility of consortia

- Al menos 3 Beneficiarios, con 2 participantes de 2 Estados Miembros o Asociados diferentes
- Si todos son de EEMM o PA al menos 1 del sector Académico y 1 del No-Académico
- TC siempre son Partner Organization



  
**KEEP  
CALM  
&  
FOLLOW  
THE RULES**



# MSCA RISE: Exemplo na UDC

INCASI - International Network for Comparative Analysis of Social Inequalities, [https://cordis.europa.eu/project/rcn/200034\\_en.html](https://cordis.europa.eu/project/rcn/200034_en.html)

Rede de investigación e formación entre Europa e América Latina, analizando desigualdades sociais e explorando vías innovadoras para reducillas, a través da investigación de traxectorias educativas, ocupacionais e de vida.

UDC participa como socio do proxecto por medio do Grupo ESOMI, prof. Laura Oso

The INCASI project website features a top navigation bar with links to INICIO, RED INCASI, EL PROYECTO, ACTIVIDADES, PUBLICACIONES, FUENTES DE DATOS, MULTIMEDIA, and OTROS ENLACES. Below the navigation is a banner for the 'Conferencia Universidad de Buenos Aires-INCASI' featuring a presentation slide about income inequality. The main content area displays logos of various partner universities and research institutions, including Universitat Autònoma de Barcelona, IET, gret, URB, UBA, OUCA, UPM, UNED, ULL, ULL, Middlesex University London, TAMPEREEN YLIOPISTO, UNIVERSITÀ DE MILANO, UNIVERSITÀ CALABRIA, UNIVERSITÀ DI PIAZZA, UNC, UNIVERSITÉ TOULOUSE Jean Jaurès, USP, and EL COLEGIO DE MÉXICO.



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# **PIARES II E III- COLABORATIVOS**

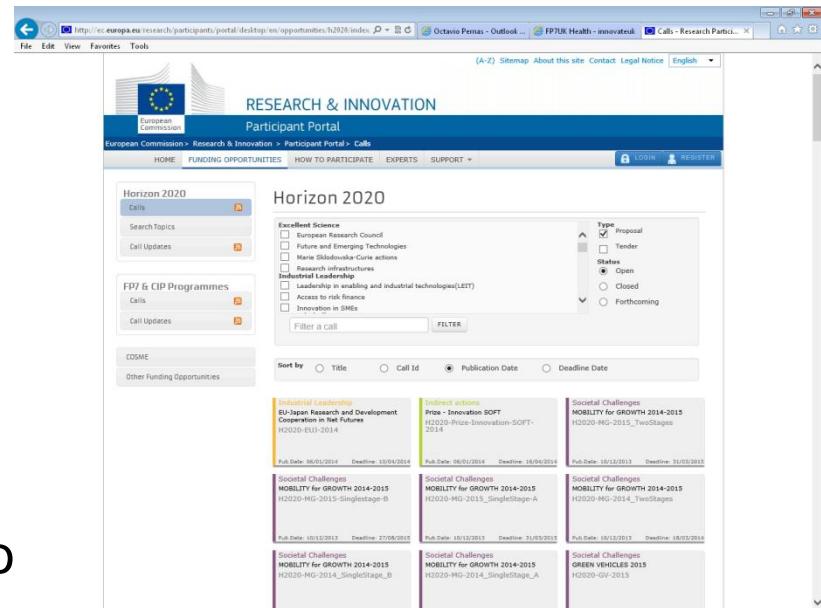


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# Portal do participante

- Programas de traballo
- Regulamentos participación
- Anexos
  - Formularios de solicitude
  - Criterios de elixibilidade
  - Esquemas de financiamento
  - Área de expertos
- Electronic Submission Service (ESS)



<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>



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# 1. ELEGIBILIDAD DE LOS PARTICIPANTES

## A. BENEFICIARIOS

Toda entidad legal con personalidad jurídica que cumpla con los requisitos establecidos en las Reglas de Participación y en los Programas de Trabajo correspondientes.

### REQUISITOS GENERALES DE PARTICIPACIÓN

- **Mínimo 3 entidades legales independientes de 3 Estados** Miembros de la UE (28) o Estados Asociados al H2020 (15) diferentes.
- Colaboración internacional recomendada: comprobar elegibilidad de cada país  
[https://ec.europa.eu/research/participants/data/ref/h2020/other/wp/2018-2020/annexes/h2020-wp1820-annex-a-countries-rules\\_en.pdf](https://ec.europa.eu/research/participants/data/ref/h2020/other/wp/2018-2020/annexes/h2020-wp1820-annex-a-countries-rules_en.pdf)



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# Leadership in enabling and industrial technologies

- Information and Communication Technologies
- Nanotechnologies
- Advanced materials
- Biotechnology
- Advanced manufacturing and processing
- Space



EN

Horizon 2020

Work Programme 2018-2020

*5.i. Information and Communication Technologies*

**Important notice on the Horizon 2020 Work Programme**

This Work Programme covers 2018, 2019 and 2020. The parts that relate to 2019 and 2020 are provided at this stage on an indicative basis. Such Work Programme parts will be decided during 2018 and/or 2019.

(European Commission Decision C(2018)518 of 31 January 2018)



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# LEIT: Exemplos de topics de interese

## ICT-28-2018: Future Hyper-connected Sociality

- Future social networks, media and platforms will become the way **our societies** operate for communication, exchange, business, **creation, learning** and **knowledge** acquisition.
- Support of Social Media ecosystem **community building** (...) at European and national level (...). This should include a dynamic app-based tool for community-mapping and an **analysis of a future hyperconnected society**, considering **societal, economic, educational, legal** and community-based self-regulation **aspects**.



# LEIT: Exemplos de topics de interese

## DT-FOF-01-2018: Skills needed for new Manufacturing jobs

- Breakthrough **education and training paradigms** for continuous training of the existing workforce are needed, that will enable the European industrial workforce **to develop new skills and competences** in a quick and efficient way.
- Innovative and hands-on approaches, **including Social Sciences and Humanities (SSH) elements**, in (...). On-site, **modular and e-learning education** should be offered free of charge for re-use (...)
- Exchange of information between industry, trade unions, **educational centres**, national employment agencies at European scale.



# Societal Challenges

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



# Reflective societies (SC6): Introducción no WP

- The calls and topics within SC6 are clearly aligned with the Commission's priorities
- In particular four of the EU2020 targets (Employment, R&D, **Education**, Fighting poverty and **social exclusion**) and four of the seven European Flagships (Innovation Union, **Youth on the move**, An Agenda for **New skills and jobs**, European Platform Against Poverty)

[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-societies\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-societies_en.pdf)



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Horizon 2020

Work Programme 2018-2020

*13. Europe in a changing world – Inclusive, innovative and reflective societies*

**Important notice on the Horizon 2020 Work Programme**

This Work Programme covers 2018, 2019 and 2020. The parts that relate to 2019 and 2020 are provided at this stage on an indicative basis. Such Work Programme parts will be decided during 2018 and/or 2019.

(European Commission Decision C(2017)7124 of 27 October 2017)



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# Reflective societies (SC6): Exemplos de topics

**TRANSFORMATIONS-01-2018: Research for inclusive growth: addressing the socioeconomic effects of technological transformations**

- **Technological transformations** such as automation, robotisation and digitisation have profound socioeconomic effects.
- Proposals should comprehensively analyse (...) the **new skills in demand**.
- They should look at **how education and training systems could be transformed** in order to address evolutions in the content and organisation of work (...). Historical, **comparative perspectives** (...) should complement the analyses



# Societal Challenges

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



# Science with and for Society: Introducción no WP

- (...) Commissioner Moedas identified 3 strategic priorities, described in **Open innovation, Open science, Open to the world** (the 3Os strategy).
- Each strategic orientation (...) takes into account (...): public engagement, **science education** (formal, informal and non-formal), gender equality, ethics/research integrity,...)



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Horizon 2020

Work Programme 2018-2020

*16. Science with and for Society*

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# Science with and for Society: Exemplos de topics

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

- There is a need to **develop innovative educational methods**, engaging all those who are directly or indirectly involved in research (...)
- Different curricula and educational tools and methods should be developed
- 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**.



# **GRAZAS!**

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