

# New features of MSCA under Horizon Europe

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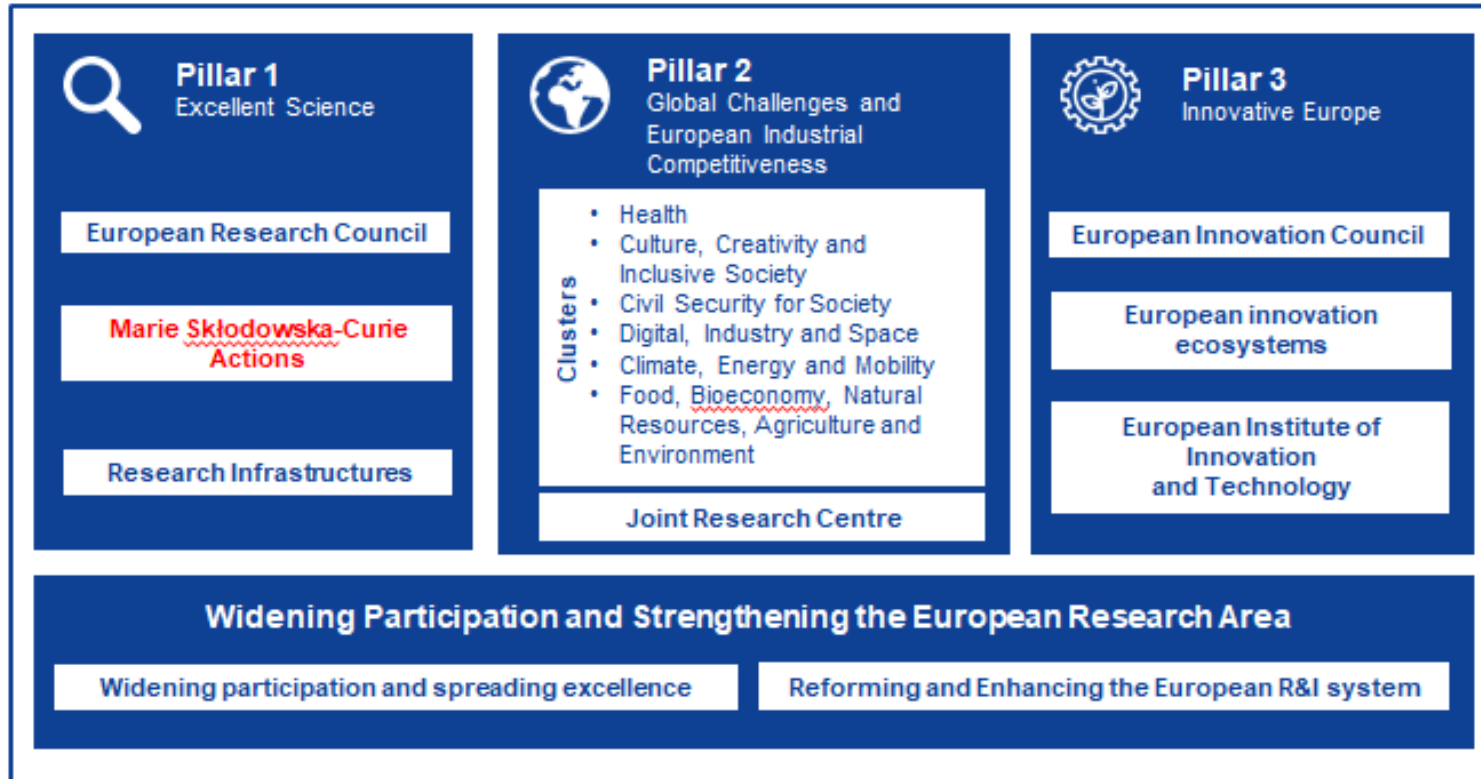


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- II. MSCA in Horizon Europe
- III. Spanish participation in MSCA in Horizon 2020
- IV. Spanish MSCA Support
- V. Main conclusions



# I. Horizon Europe: Preliminary structure



**Excellent Science (Pillar 1):** reinforcing and extending the excellence of the Union's science base

# I. The MSCA in Horizon Europe

- Investing in **the people behind R&I, delivering talent and improving careers**
- Bottom-up approach (+ Green Charter + EURATOM Postdoctoral Fellowships)
- **Creating impact on researchers, institutions, systems**
- Overall: **continuation from H2020 MSCA**
- 5 areas of intervention:
  - *mobility of researchers*
  - *training of researchers*
  - *strengthening human capital across the ERA*
  - *facilitating synergies*
  - *promoting public outreach*



The Commission proposes a budget of € 6.8 billion for the MSCA



# I. Evolution in the MSCA's implementation

- **Streamlined actions**, clearer identity
- **Simpler rules**, fine-tuned definitions, harmonised conditions (1/3 secondments, 1 mobility rule, etc)
- Continuation of simplified form of grants: Unit Costs system
- **Strengthen structuring effects on host institutions**
- More guidance on supervision and **exposure beyond academia**
- Improved internal coherence & reinforced external **synergies**
- **Demand management** to maintain high-quality and attractiveness

## II. MSCA 2021-2027



1. MSCA Doctoral Networks
2. MSCA Postdoctoral Fellowships
3. MSCA Staff Exchanges
4. MSCA COFUND
5. MSCA and Citizens

- *networks training doctoral candidates*
- *postdoctoral researchers*
- *any type of research(-related) staff*
- *co-funding training programmes*
- *public outreach events*



# II. MSCA Doctoral Networks

Focus on **career development plan, supervision, training: research and transferable skills.**

- **What? Consortia funding**
  - ✓ Partnerships of universities, research institutions and research infrastructures, businesses including SMEs, and other socio-economic actors
  - ✓ At least **3 independent legal entities**, each established in a different MS or AC, **minimum of 1 beneficiary from a MS** (on top of that entities in TC can participate)
  - ✓ 40% rule continues to apply
- **Who? Doctoral candidates will be funded:** ie: researcher without a doctoral degree at the date of the recruitment, **mandatory enrolment in a doctoral programme**. Mobility rule applies
- **How? One action to set up doctoral programmes**, including:
  - ✓ **Industrial Doctorates:** Training in academia and industry, Joint supervision
  - ✓ **Joint Doctorates:** Joint collaborations leading to a joint/multiple doctoral degree, Joint selection and supervision



# II. MSCA Doctoral Networks



- **Size:** 360 Person-months (=10 doctoral candidates), 180 additional PM for joint or industrial doctorates (incentive, not compulsory)
- **Duration**
  - ✓ Programme: max. 48 months
  - ✓ Fellow: between 3 and 36 months
  - ✓ **Secondment:** up to 1/3
  - ✓ Industrial Doctorates: at least 50% in the non-academic sector, can be in the same country as the academic host
- **Resubmission restrictions** applying as of 2022 for applications receiving a score below 80%







# II. MSCA Postdoctoral Fellowships

- ❖ Continue **supporting postdoctoral research** and careers; open to **researchers of any nationality**.
- ❖ New mind-sets and approaches to research and innovation through **interdisciplinary, inter-sectoral and international experience**
- ❖ Continue funding **all research domains**

- **Who?** Researchers having obtained their Doctoral degree at the call deadline (successfully defended). Scientific age restriction (with exceptions): 8 years
- **How?** Two types of Fellowships:
  - ✓ European Postdoctoral Fellowship and Global Postdoctoral Fellowships
  - ✓ Euratom Programme will contribute with 1 million€
  - ✓ Secondments all over the world





# II. MSCA Postdoctoral Fellowships

- **Duration:**
  - ✓ European PF: 12-24 + 6 months in the non-academic sector (suggested)
  - ✓ Global PF: 24-36 months (12-24 outgoing & 12 months return phase in Europe)
  - ✓ **Secondments: 1/3 duration**
- **Incentive** of additional period of up to 6 months for placements in the non-academic sector to intensify the exposure to training
  - ✓ Part of the evaluated proposal, to be implemented at the end of the fellowship
  - ✓ Improved guidance towards career development (plan & supervision)
- **Career development Plan:** a deliverable to be reviewed throughout the project implementation
- **Calls:** **Resubmission restriction as of 2022:** below 70% in previous HE Calls



## II. MSCA Staff Exchanges

- ❖ **Most international action** under MSCA
- ❖ Lean and flexible tool to support **collaborative R&I projects**
- ❖ Emphasis on the **added-value of the collaboration** itself

- **Consortia:**

- ✓ Partnerships of universities, research institutions and infrastructures, businesses including SMEs and other socio-economic actors
- ✓ At least 3 independent legal entities in 3 different countries (2 in a different MS or AC)
- ✓ **Interdisciplinary secondments possible within Europe (max. 1/3 of PM).**

- **Target Group:** staff contributing to research activities: researchers at any career stage as well as administrative, managerial and technical staff supporting R&I activities

- **Size and duration:**

- ✓ 48 months of duration, secondments between 1 and 12 months
- ✓ **Reduction from 450 to 360 PM**













# II. MSCA COFUND

- ❖ Funding to develop national, regional, institutional **doctoral and postdoctoral fellowship programmes** in any discipline based on international mobility, interdisciplinary and inter-sectoral experience
  - ❖ Spread best practices of the MSCA by promoting **high standards** in the recruitment process and **excellent working conditions**
- 
- Greater focus on **new beneficiaries** and **new training programmes**
  - Limited to EUR 10 million per beneficiary per call, 3 researchers min. (no change)
  - Encourage synergies with European Structural and Investment Funds
  - **EU contribution: It will cover minimum remuneration** (70% living + mobility allowance)
  - **Duration:**
    - ✓ Programme: max. 60 months
    - ✓ Secondments: up to 1/3



# II. MSCA Funding

MSCA	Researcher Unit Cost (person/month)			Institutional Unit Cost (person/month)	
	Living Allowance *	Mobility Allowance	Family Allowance 	Research, training and networking	Management and overheads
PF	 5.080	600	660	 1.000	650
DN	 3.400	600	660	 1.600	1.200
SE	 2.300			 1.300	 1.000
COFUND	DOCTORAL PROGRAMMES: 2.80 (70% Living + mobility) POSTDOCTORAL PROGRAMMES: 3.950 (70% Living + mobility)				

- Budget pre-calculated by EC, base on unit costs, 100% financing
- \* New CCC (Country Coefficient Correction)
- + **Special Needs Allowance**
- + **New Long – Term Leave Allowance**



## II. MSCA and Citizens

- Continuation of **European Researchers' Night**-like activities
- With a focus on EC priorities and European Research and Innovation Missions (Cancer, Climate, Oceans, Climate-Neutral cities, Soil)
- Now with the **Lump Sum Instrument**



# II. Other activities

- **Study** analysing brain drain and propose appropriate solutions
- **Researchers @ Schools**
- **Alumni Association (MCAA)**
- Network of **MSCA NCPs**
- **Researchers @ Risk**
- **MSCA international support**
- **Seal of Excellence** for MSCA Postdocs and MSCA COFUND
- Next Presidency Conferences Events



## II. Calls MSCA 2021/2022

Call ID	Call Opens	Call Deadline
HORIZON-TMA-MSCA-PF-2021	15-04-2021	15-09-2021
HORIZON-TMA-MSCA-PF-2022 (Postdoctoral Fellowships)	14-04-2022	14-09-2022
HORIZON-TMA-MSCA-DN-2021	04-05-2021	16-11-2021
HORIZON-TMA-MSCA-DN-2022 (Doctoral Networks)	03-05-2022	15-11-2022
HORIZON-TMA-MSCA-CITIZENS-2021 (European Researchers ´ Night)	17-06-2021	07-10-2021
HORIZON-TMA-MSCA-SE-2021	07-10-2021	09-03-2022
HORIZON-TMA-MSCA-SE-2022 (Staff Exchange)	06-10-2022	08-03-2023
HORIZON-TMA-MSCA-COFUND-2021	11-10-2021	10-02-2022
HORIZON-TMA-MSCA-COFUND-2022 (Co-funding of programmes)	10-10-2022	09-02-2023



# III. Algunos datos de participación ES MSCA H2020

## RESULTADOS PROVISIONALES H2020 CIENCIA EXCELENTE

Ciencia Excelente	2014-2019	
	M€	%UE-28
1. El Consejo Europeo de Investigación (ERC)	563,9	6,2
2. Las Tecnologías Futuras y Emergentes (FET)	160,3	10,4
3. Las acciones Marie Skłodowska-Curie	451,5	10,0
4. Las Infraestructuras de investigación	104,6	6,5



**10% retorno UE 28 en MSCA**

**Objetivo:** reforzar y ampliar la excelencia de la base científica de la Unión, así como a consolidar el Espacio Europeo de Investigación para hacer que el sistema de investigación e innovación de la UE resulte más competitivo a escala mundial

**ESPAÑA OBTIENE UNA SUBVENCIÓN DE 1.280,4 M€ (7,6% UE-28)**



CDTI, E.P.E.

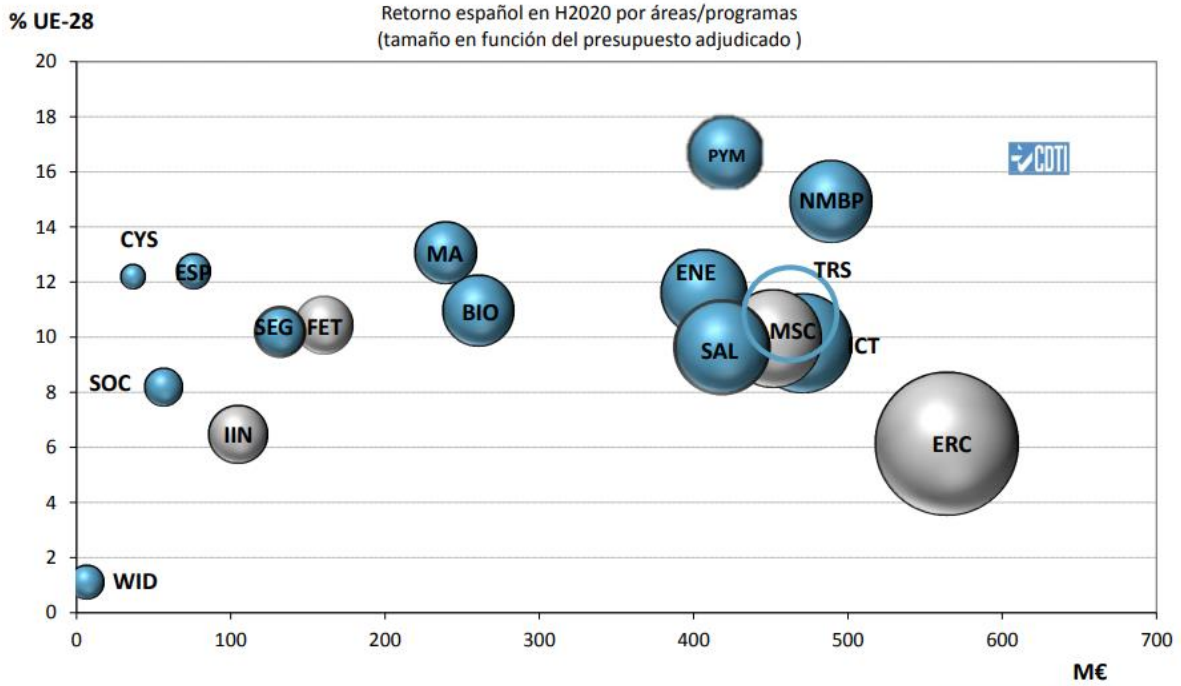


Fuente: datos CDTI Julio 2020



# III. Algunos datos de participación ES MSCA H2020

## Resultados por Áreas Temáticas



**10% retorno UE  
28 en MSCA**



CDTI, E.P.E.



Fuente: datos CDTI Julio 2020



# III. Algunos datos de participación ES MSCA H2020

## H2020 - CIENCIA EXCELENTE: ACCIONES MARIE SKŁODOWSKA-CURIE (MSC)



Subvención obtenida por España: 451,5 M€



1.319 actividades con participantes españoles

**Intercambio de personal (RISE):**  
48,1 M€  
**(11,6% UE-28)**  
España 3<sup>er</sup>. país

**Acciones individuales (IF):**  
121,9 M€  
**(10,7% UE-28)**  
España 2<sup>o</sup> país

**Redes de formación (ITN):**  
199,1 M€  
**(7,7% UE-28)**  
España 6<sup>o</sup> país

**Cofinanciación de programas (COFUND):**  
80,4 M€  
**(22,4% UE-28)**  
España 1<sup>er</sup>. país

**España provisionalmente 4<sup>o</sup> país por retorno: 10,0 UE-28**

- Gran impacto estructural gracias a COFUND
- Gran capacidad de atracción de talento a nivel europeo



CDTI, E.P.E.



Fuente: datos CDTI Julio 2020



# IV. The Spanish NCP Team

[msca@oficinaeuropea.es](mailto:msca@oficinaeuropea.es)



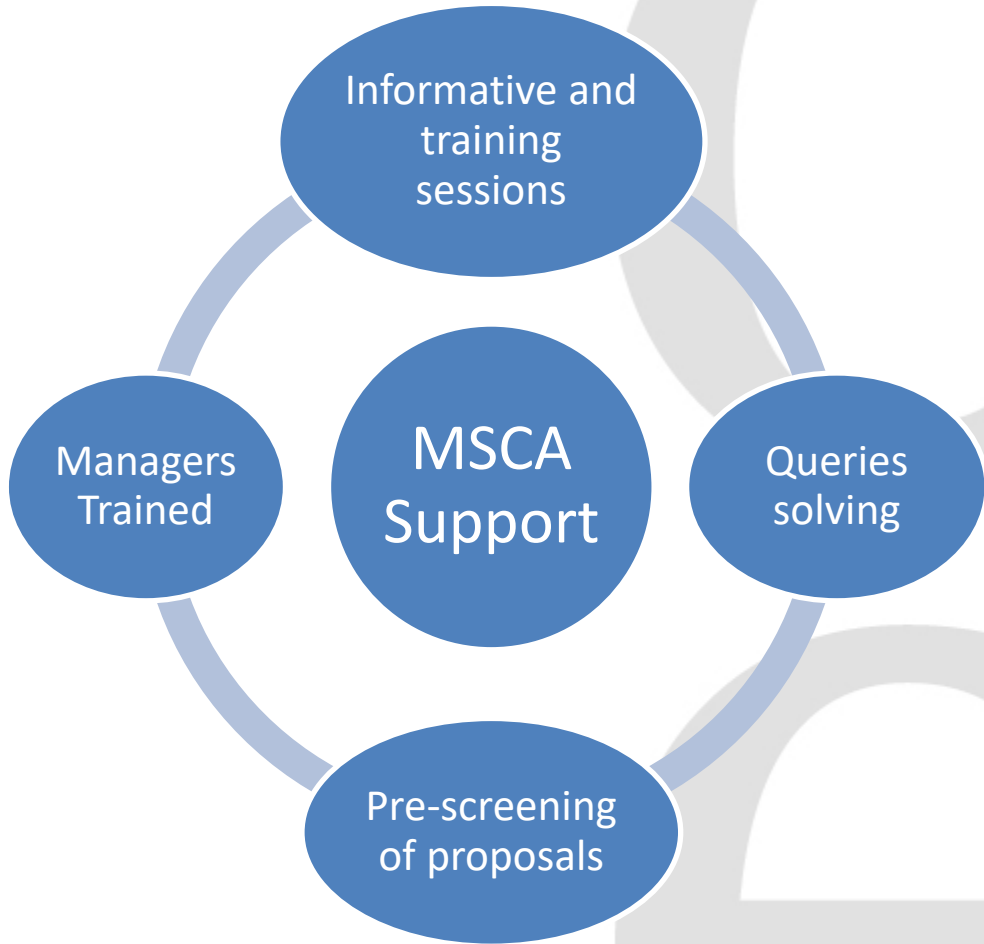
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# IV. Apoyo NCPs MSCA 2014-2020

## Sesiones informativas y formación

- 2014 (+ 30 eventos)
- 2015 (+ 35 eventos)
- 2016 (+ 46 eventos)
- 2017 (+ 32 eventos)
- 2018 (+ 22 eventos)
- 2019 (+ 27 eventos)
- 2020 (+ 23 eventos)



+ 20.100 consultas solucionadas

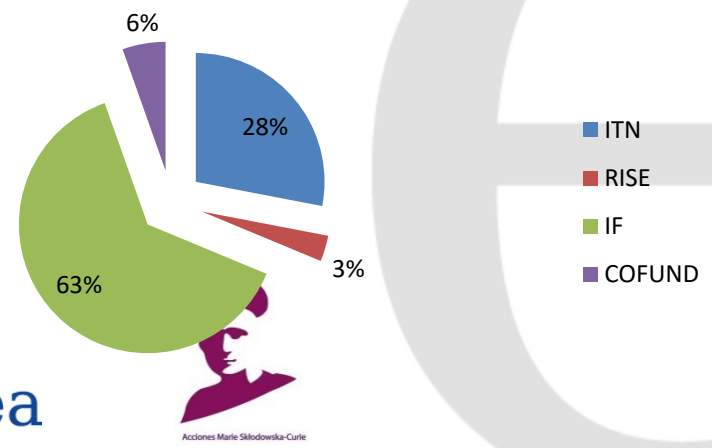


+ 15.600 asistentes

+ 640 propuestas revisadas



## Revisión de propuestas por modalidad MSCA



# IV. Apoyo NCPs MSCA: 2020 un año diferente

+ 40% consultas  
+ 430% asistentes

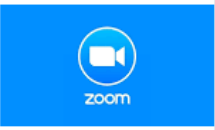


20 / 27 DE MAYO

**UN CAFÉ CON LOS NCPs**

16:00

**Hablemos de Comunicación & Implementación**



- Sesiones cortas
- Temáticas concretas
- Apoyo al personal de gestión de los centros

# IV. Apoyo NCPs MSCA: 2021 inicio Horizonte Europa



- Encontrar un **equilibrio** entre actividades presenciales y on-line
- **Seguir revisando propuestas:**
  - ✓ Necesidad de buscar impacto
  - ✓ Solicitud de feedback a las mismas
- Mantener actividades de apoyo a **nivel de gestión:** grupo adhoc COFUND

# V. Main aspects as a conclusion

- **Streamlined actions**, clearer identity, **simpler rules**
- Actions to **address high demand**, while keeping the competitiveness of the programme
- Addressing **high policy priorities** (Synergies, Green Deal, Widening Aspects, International Cooperation, etc.)

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Nothing in life is to be feared, it is only to be understood. Now is the time to understand more, so that we may fear less

¡Muchas gracias!

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# Research infrastructures in Horizon Europe


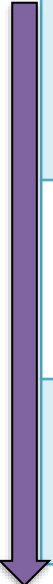
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# Infraestructuras de Investigación Europeas (RI): general

 <b>Orientaciones estratégicas</b>	<b>¿Qué son las RI?</b>	Centros que ofrecen recursos y servicios a las comunidades de investigación para que puedan ejercer su labor e impulsar la innovación. Pueden estar <b>centralizadas, descentralizadas o ser virtuales</b>
	<b>Prioridades políticas CE</b>	Las RI son <b>inversiones estratégicas esenciales</b> para la transformación verde y digital, para la recuperación de la Unión Europea y para el apoyo en I+D al ámbito de la Salud
	<b>Objetivos Impacto esperado</b>	<b>Máximo impacto</b> en la sociedad, en la economía y en la ciencia, gracias a los resultados a largo plazo de las Acciones de I+D
	<b>5 Destinos</b>	Paquetes de actividades en cada Programa de Trabajo que contribuyen a los <b>objetivos e impactos esperados</b> establecidos en la Orientación Estratégica
 <b>Programa de Trabajo</b>		

# Infraestructuras de Investigación Europeas (RI): destinos 1 y 2

## Destino 1: Consolidación y optimización RI europeas, liderazgo global

- Implementación **Hoja de ruta ESFRI 2021**
- Desarrollo nuevos conceptos nuevas RI
- Consolidación RI
- Cooperación Internacional



## Destino 2: Desarrollo e implementación de la Nube Europea de Ciencia Abierta (EOSC)



- Transformación de la forma en la que **se comparte la información científica**
- Facilitar la **cooperación multidisplicinar científica**

# Infraestructuras de Investigación Europeas (RI): destinos 3, 4 y 5

**Destino 3:**  
Servicios  
destinados a  
apoyar áreas  
prioritarias y el  
conocimiento de  
frontera

- Áreas prioritarias Clima, Salud, Economía Circular ...
- Nuevo conocimiento de frontera no relacionado con retos globales y sociales

**Destino 4:**  
Nueva generación  
de  
instrumentación  
científica,  
herramientas y  
soluciones  
digitales

- Asegurar la competitividad de Europa en excelencia tecnológica

**Destino 5:**  
Colaboración  
sin fronteras

