

# OPORTUNIDADES EN EL ÁMBITO DE LA SALUD EN H2020

21.11.2017

Valladolid

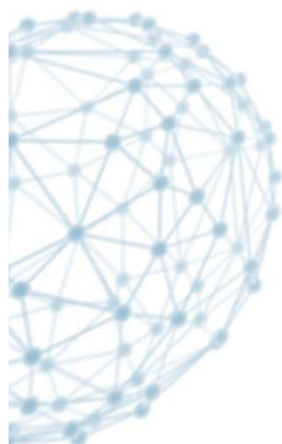
**Juan E. Riese PhD MBA**

Punto Nacional de Contacto – Reto Social 1 H2020 & IMI2

Experto Nacional en el Comité de Programa Reto Social 1

Oficina de Proyectos Europeos

*Subdirección General de Programas Internacionales de Investigación y Relaciones Institucionales*



Gerencia Regional de Salud

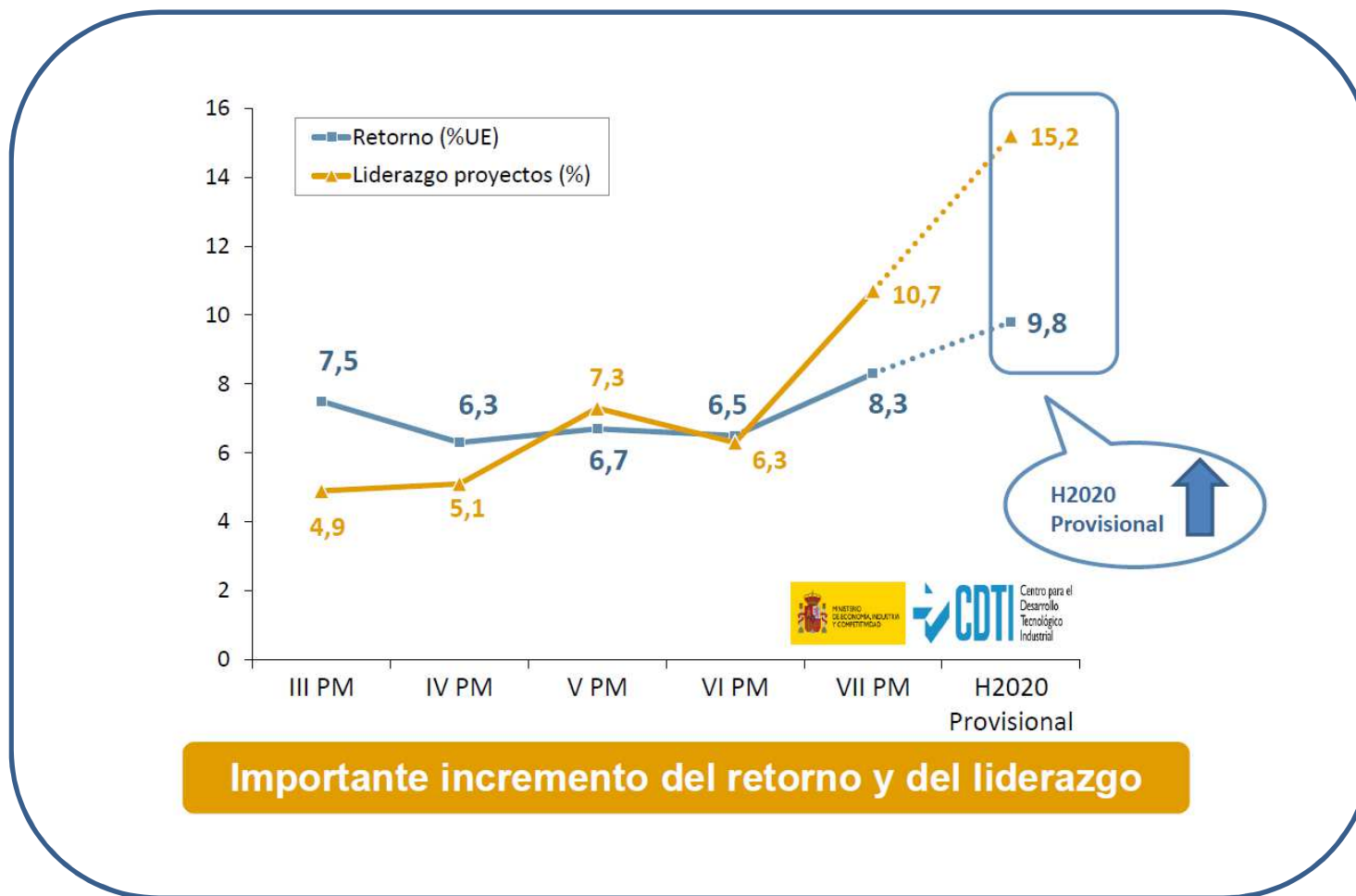
## Hablaremos de

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1. Resultados participación España en H2020
2. Introducción al HORIZON 2020
3. Programa de Trabajo 2018-2020 – Reto Social 1 “Salud, Cambio demográfico y Bienestar”

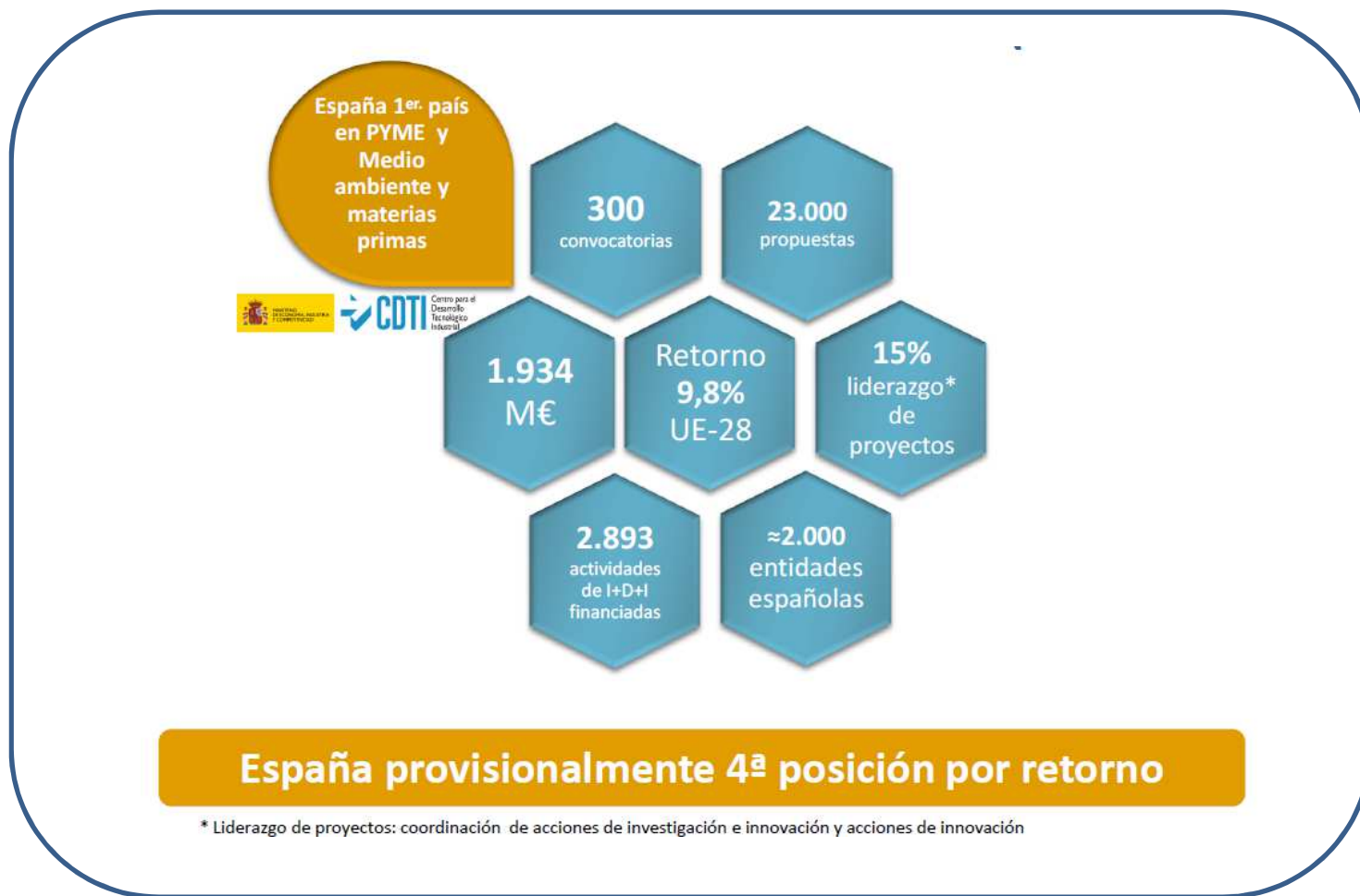
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1. Resultados participación España en H2020
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# Evolución del retorno y el liderazgo en el Programa Marco\*



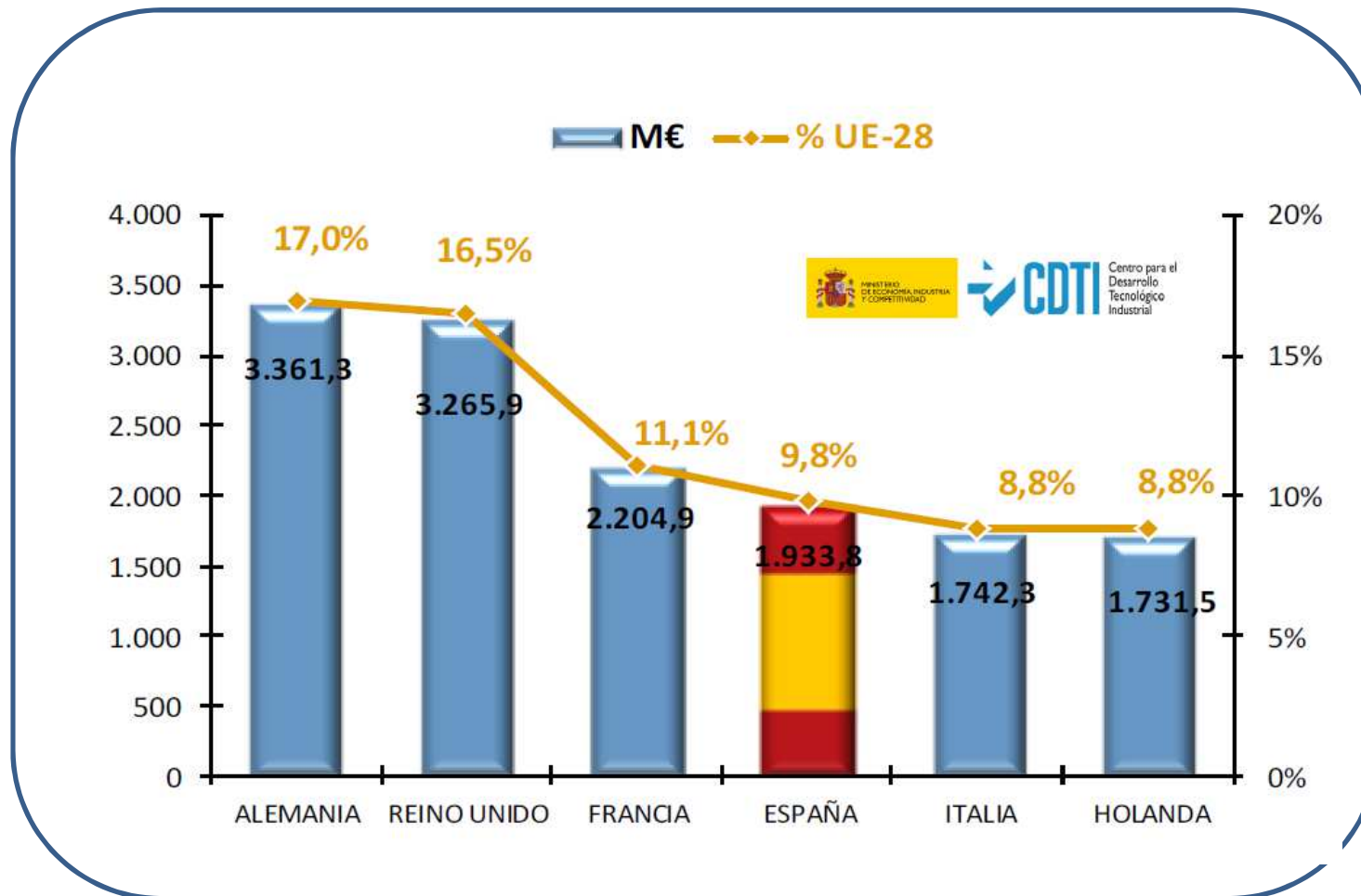
Las convocatorias 2018-2019-2020 del Reto Social 1 de H2020

# Resultados participación global de España en H2020 (2014-2016)



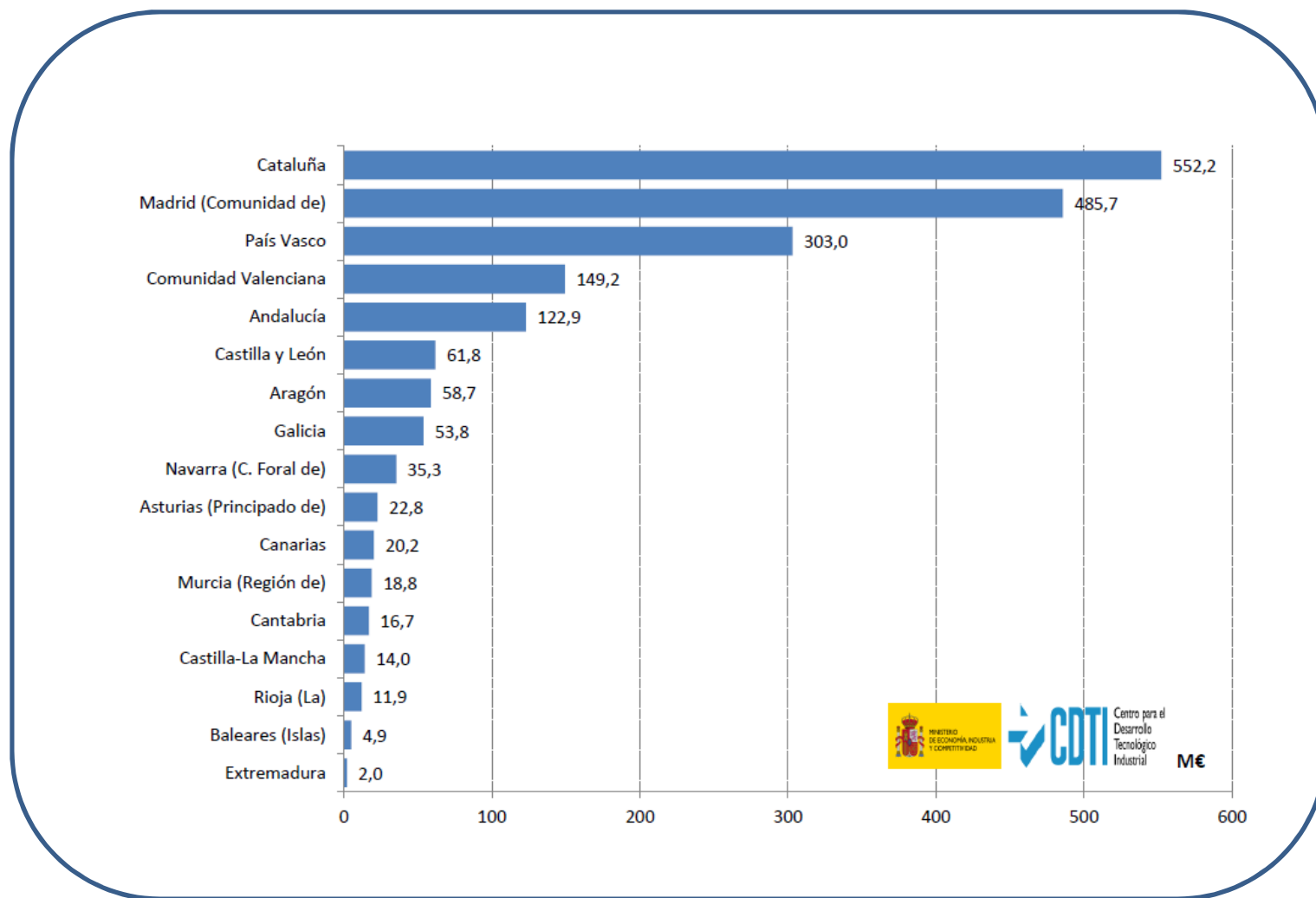
Las convocatorias 2018-2019-2020 del Reto Social 1 de H2020

## Ranking de países en retorno de H2020 ( todas las áreas; 2014-2016)



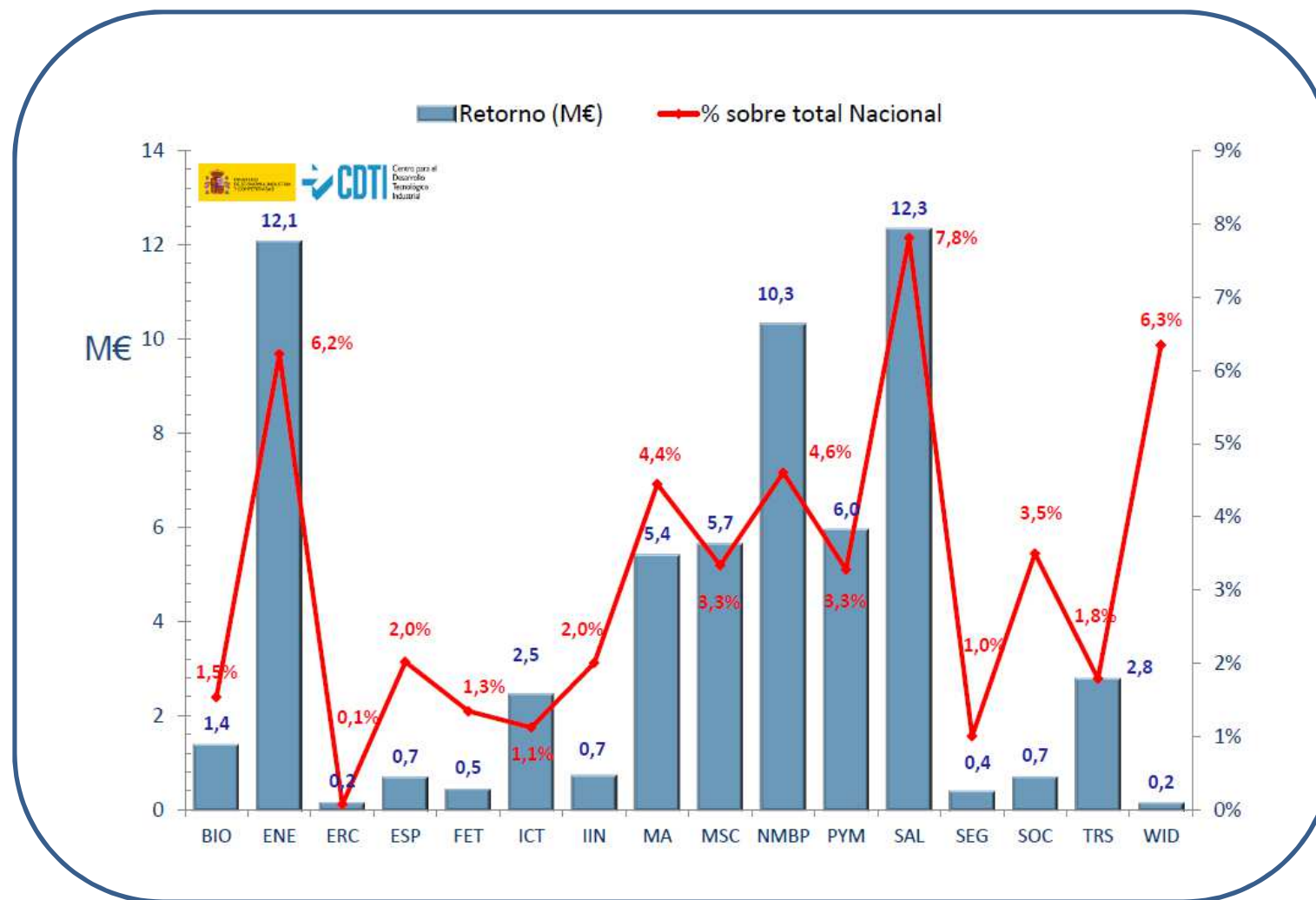
Las convocatorias 2018-2019-2020 del Reto Social 1 de H2020

# Resultados por Comunidad Autónoma en todo H2020 (2014-2016)



Las convocatorias 2018-2019-2020 del Reto Social 1 de H2020

## Participación de Castilla y León en H2020 por temas/áreas (2014-2016)



Las convocatorias 2018-2019-2020 del Reto Social 1 de H2020



DATOS SC1  
(Octubre 2017)

# Resultados SC1 H2020 2014-17

(elaboración OPE-ISCIH)

## DATOS PROVISIONALES RETOS SOCIAL 1: SALUD, CD y BIENESTAR

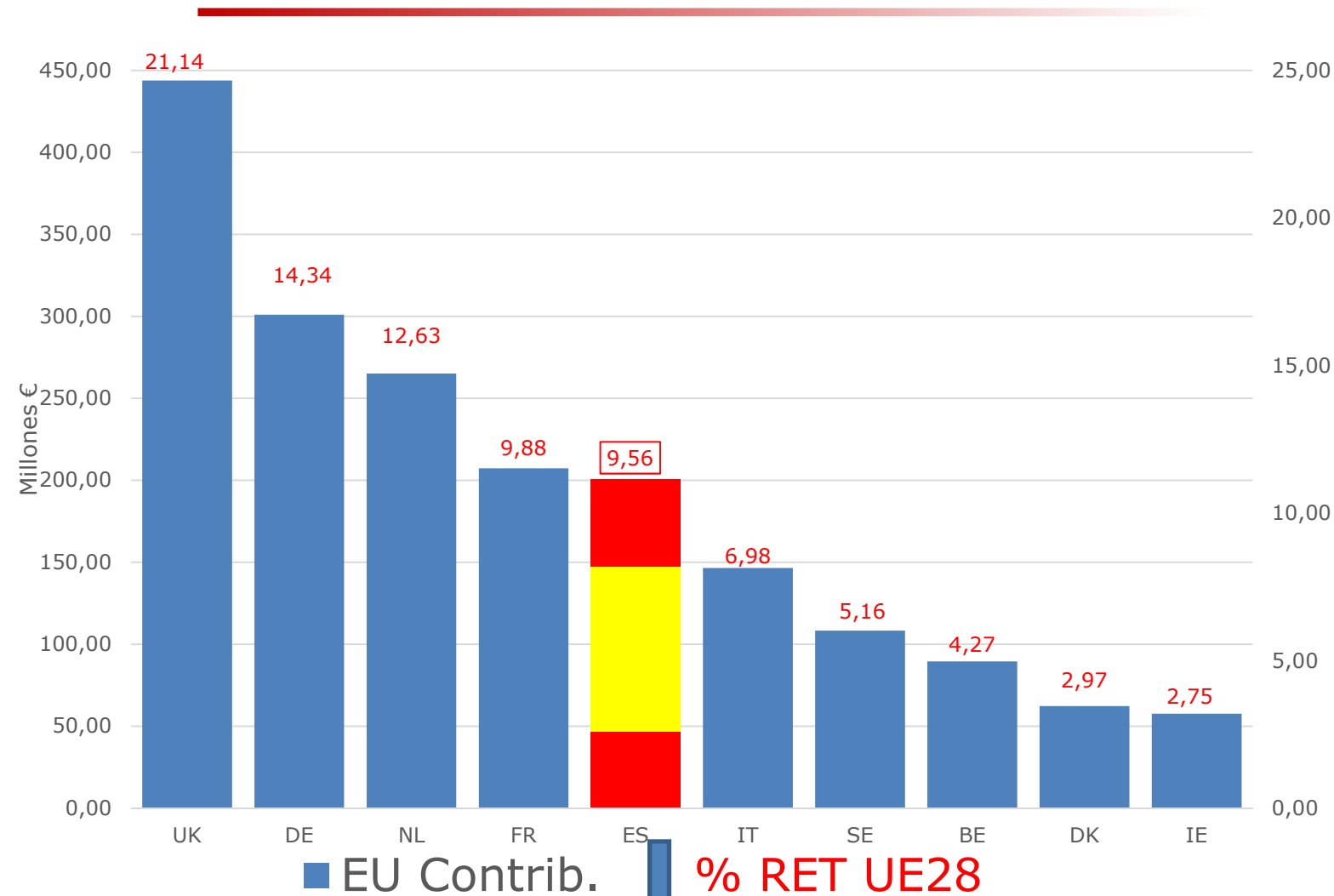
- 2.224 Mio. € licitados (2.100 UE28)
- 200 Mio. € para entidades ES (9,56 % retorno UE28)
- 98 proyectos liderados sobre 690 Proyectos
- España 5º lugar en retornos, 2ª en Liderazgo

País	%Ret UE28	Liderazgo
UK	21,14	15,07
DE	14,34	11,59
NL	12,63	10,00
FR	9,88	7,54
ES	9,56	14,20
IT	6,98	8,12

(Fuente prov. E-Corda – Octubre 2017)

# Resultados SC1 (Top 10 Países).

## Datos Provisionales E-Corda (Septiembre 2017)



Las convocatorias 2018-2019-2020 del Reto Social 1 de H2020

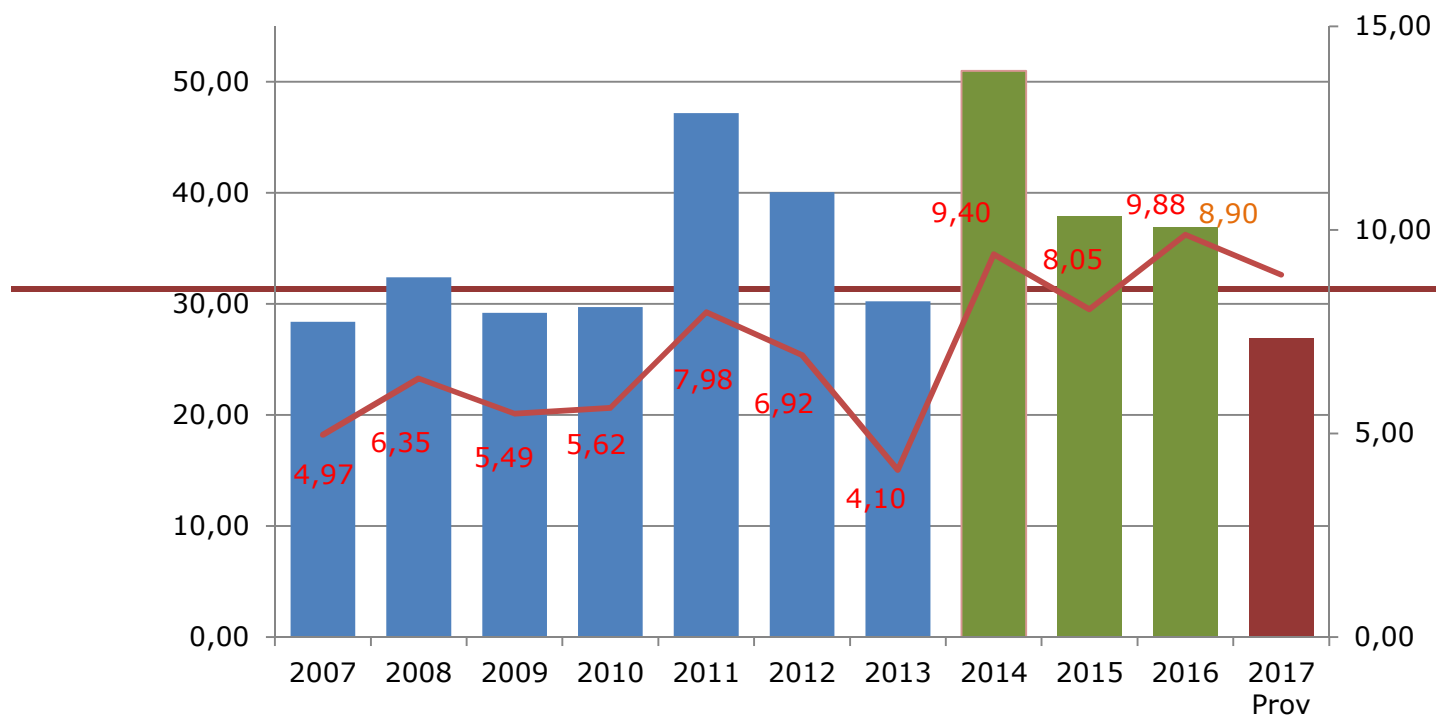


En FP7: 6%

(Fuente prov. E-Corda – Octubre 2017)

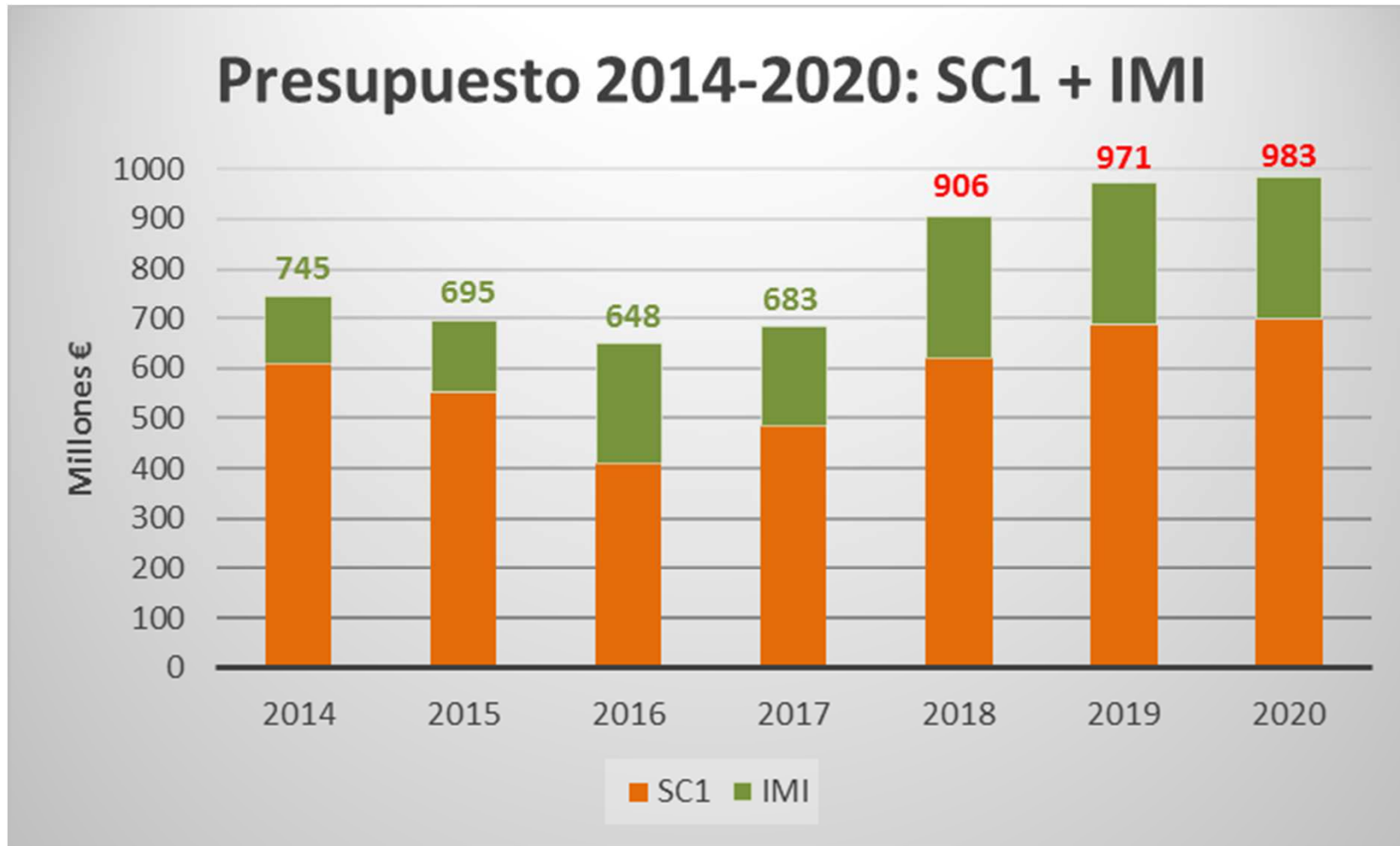
## Trayectoria Retornos Health ES (FP7 y H2020 - SC1)

En FP7 en el programa de Cooperación/Health ES retornó unos 210 Mio. €, que supusieron unos 30 Mio. € de media anual de financiación UE. Las cuatro primeras convocatorias que ha ejecutado directamente la Comisión Europea en H2020 suponen 150 Mio. €, a los quedaría sumar otros 50 Mio. € obtenidos entre la iniciativa IMI-2 y el instrumento PYME.



Las convocatorias 2018-2019-2020 del Reto Social 1 de H2020

## Presupuesto 2014-20



- 
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## Objetivo H2020



Contribuir a la construcción de una economía basada en el conocimiento

- Más énfasis en el **impacto** de proyectos
- Fortaleciendo actividades **"bottom-up"**
- Mejorando el acceso a la **financiación** de las **empresas**
- Integrando **investigación e innovación**

Las convocatorias 2018-2019-2020 del Reto Social 1 de H2020

## H2020: Estructura

### Ciencia excelente

Reforzar y ampliar la excelencia de la base científica de la Unión, así como a consolidar el Espacio Europeo de Investigación

### Liderazgo industrial

Acelerar el desarrollo de las tecnologías e innovaciones que sustentarán las empresas del mañana

### Retos sociales

Estimular la masa crítica de esfuerzos de investigación e innovación necesaria para alcanzar los objetivos políticos de la Unión

## Tres pilares

Ciencia  
excelente

Liderazgo  
industrial

Retos  
sociales





# H2020. Estructura

## HORIZON 2020

€70.2 billion

(\*budget is subject to change)

### Excellent Science

European Research Council (ERC)

Marie Skłodowska-Curie Actions (MSCA)

Future Emerging Technology (FET)

European Research Infrastructure (ERI)

### 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 research & inland water research

Secure, clean & efficient energy

Smart, green & integrated transport

Climate action, resource efficiency & raw materials

Inclusive, innovative & reflective societies

Secure Societies

**Spreading excellence and widening participation**

**Science with and for society**

**European Institute of Innovation and Technology (EIT)**

**Non-nuclear direct actions of the Joint Research Centre (JRC)**

Las convocatorias 2018-2019-2020 del Reto Social 1 de H2020



## Prioridad 1: Ciencia Excelente



- La **investigación de excelencia a nivel mundial** es el fundamento de la tecnología del mañana, puestos de trabajo y el bienestar
- Europa necesita **desarrollar, atraer y retener el talento investigador**
- Los investigadores necesitan **acceso a las mejores infraestructuras**

## Prioridad 1: Ciencia Excelente

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### **Consejo Europeo de Investigación (*European Research Council, ERC*)**

Investigación vanguardista realizada por los mejores grupos individuales

11.900€

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### **Tecnologías Futuras y Emergentes (*Future and Emerging Technologies, FETs*)**

Investigación colaborativa para abrir nuevos campos de innovación

2.500 €

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### **Acciones Marie Curie (*Marie Curie Actions*)**

Movilidad y formación para el desarrollo de la carrera profesional

5 .600 €

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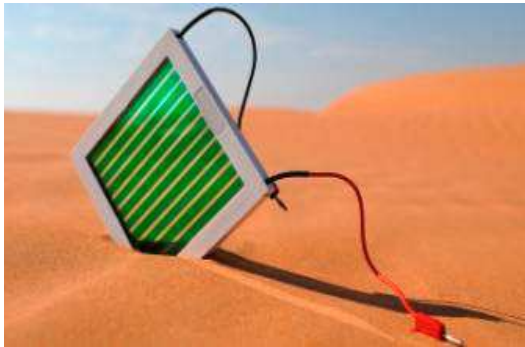
### **Infraestructuras de Investigación (*Research infrastructures including e-infrastructure*)**

Asegurar el acceso a infraestructuras

2 .300 €

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## Prioridad 2: Liderazgo industrial



- **Inversiones** estratégicas en **tecnología clave** (ejem. Fabricación avanzada, microelectrónica) mantener la innovación en todos los sectores actuales y emergentes
- Europa necesita **atraer inversión privada** en investigación e innovación
- Europa necesita más **PYME** innovadora para generar **conocimiento y empleo**

## Prioridad 2: Liderazgo industrial

### Liderazgo en Tecnología Industrial y de Capacitación (LEIT)

1.1 Tecnologías de la Información y la Comunicación\*

1.2 Nanotecnologías

1.3 Materiales avanzados

1.4 Biotecnología

1.5 Fabricación y transformación avanzadas

1.6 Espacio

12.400 €

### Acceso a la financiación de riesgo

Movilización de financiación privada y capital de riesgo para investigación e innovación

2.600 €

### Innovación en las PYMEs

Fomentar todas las formas de innovación en las PYMES. (SME Instrument)

600 €\*\*

\* No eHealth

\*\* Complementados con 15% de desafíos sociales + LEIT y Acceso a la financiación de riesgo con énfasis en PYMEs

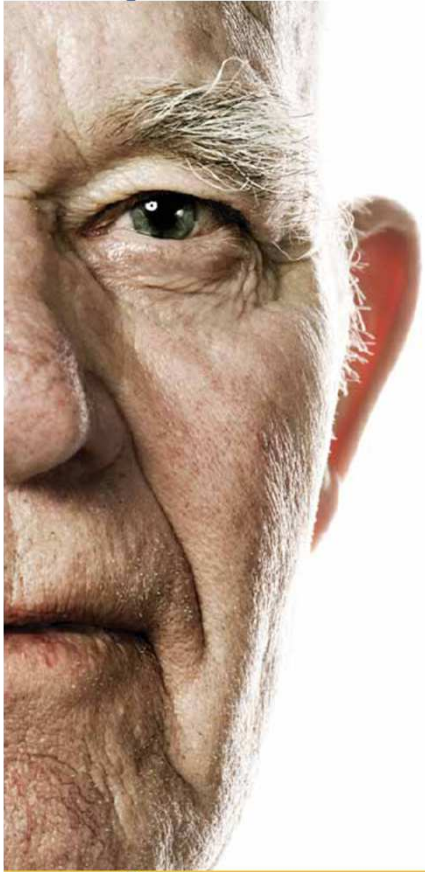
Las convocatorias 2018-2019-2020 del Reto Social 1 de H2020



## Pilar 3 - Retos Sociales

<b>II. Prioridad «Retos de la sociedad»</b>	<b>29.679</b>
1. Salud, cambio demográfico y bienestar	7.472
2. Seguridad alimentaria, agricultura y silvicultura sostenibles, investigación marina, marítima y de aguas interiores y Bioeconomía	3.851
3. Energía segura, limpia y eficiente	5.931
4. Transporte inteligente, ecológico e integrado	6.339
5. Acción por el clima, medio ambiente, eficiencia de los recursos y materias primas	3.081
6. Europa en un mundo cambiante – Sociedades inclusivas, innovadoras y reflexivas	1.309
7. Sociedades seguras – Proteger la libertad y la seguridad de Europa y de sus ciudadanos	1.695

# Reto Social 1 “Salud, Cambio Demográfico y Bienestar”



## Better Health for all

- Envejecimiento de la población
- Ciudadanos mejor informados y mayores exigencias a los proveedores de atención médica por parte de los pacientes
- Solicitud de sistemas sanitarios más personalizados y sostenibles

Retos específicos:

Entender mejor la salud y la enfermedad  
- la **medicina personalizada**

La carga de las **enfermedades crónicas e infecciosas**

**Mejoras en el desarrollo** de fármacos

# El concepto de Medicina Personalizada según la CE



## Personalised medicine



**Personalised Medicine** is defined as a medical model using characterization of individuals' phenotypes and genotypes (e.g. molecular profiling, medical imaging, lifestyle data) for tailoring the right therapeutic strategy for the right person at the right time, and/or to determine the predisposition to disease and/or to deliver timely and targeted prevention

*(Horizon 2020 Societal Challenge 1 Advisory Group Report)*



# Medicina Personalizada / Medicina de Precisión



"And that's why we're here today. Because something called precision medicine -- in some cases, people call it personalized medicine -- gives us one of the greatest opportunities for new medical breakthroughs that we have ever seen."

"And that's the promise of precision medicine -- delivering the right treatments, at the right time, every time to the right person." (President Obama)

<https://www.youtube.com/watch?v=cW1PEmY2iKE>

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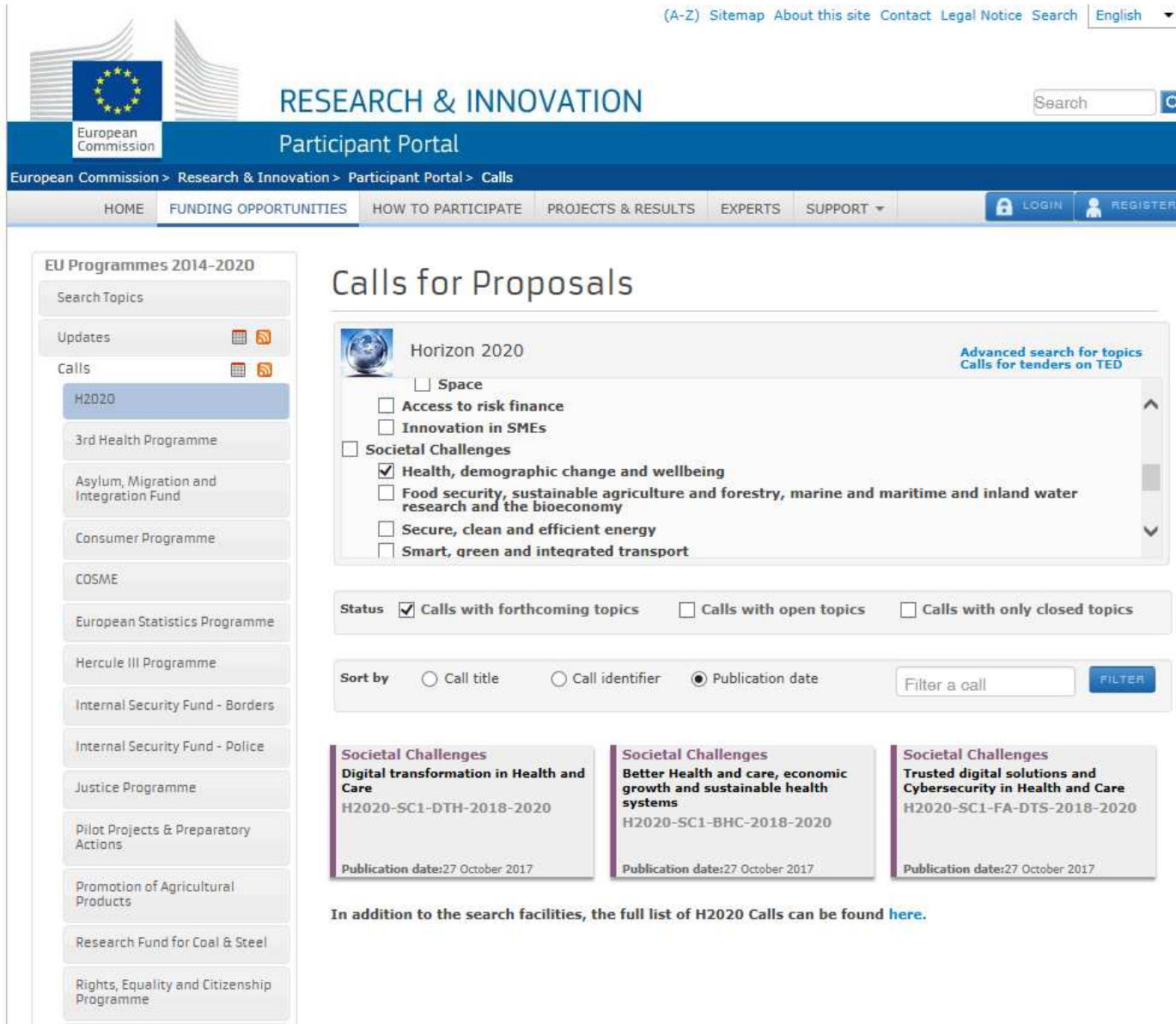
# El portal del participante

The screenshot shows the 'Participant Portal' for 'RESEARCH & INNOVATION' under the European Commission. The page features a navigation menu with 'HOME', 'FUNDING OPPORTUNITIES', 'HOW TO PARTICIPATE', 'EXPERTS', and 'SUPPORT'. A search bar and 'LOGIN'/'REGISTER' buttons are also present. The main content area is titled 'Horizon 2020 Funding' and states 'Starting from 1/1/2014'. It lists EU programmes for funding and provides instructions for both non-registered and registered users. At the bottom, there are six icons representing different portal sections: 'WHAT'S NEW?', 'FUNDING OPPORTUNITIES', 'HOW TO PARTICIPATE', 'WORK AS AN EXPERT', 'MY PERSONAL AREA', and 'INFORMATION AND SUPPORT'.

<http://ec.europa.eu/research/participants/portal>

Las convocatorias 2018-2019-2020 del Reto Social 1 de H2020

# El primer paso es descargar la información de la convocatoria más adecuada de



(A-Z) Sitemap About this site Contact Legal Notice Search English

RESEARCH & INNOVATION  
Participant Portal

European Commission > Research & Innovation > Participant Portal > Calls

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE PROJECTS & RESULTS EXPERTS SUPPORT LOGIN REGISTER

### EU Programmes 2014-2020

Search Topics

Updates

Calls

- H2020
- 3rd Health Programme
- Asylum, Migration and Integration Fund
- Consumer Programme
- COSME
- European Statistics Programme
- Hercule III Programme
- Internal Security Fund - Borders
- Internal Security Fund - Police
- Justice Programme
- Pilot Projects & Preparatory Actions
- Promotion of Agricultural Products
- Research Fund for Coal & Steel
- Rights, Equality and Citizenship Programme

## Calls for Proposals

Horizon 2020 [Advanced search for topics Calls for tenders on TED](#)

- Space
  - Access to risk finance
  - Innovation in SMEs
- 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

Status  Calls with forthcoming topics  Calls with open topics  Calls with only closed topics

Sort by  Call title  Call identifier  Publication date

Societal Challenges	Societal Challenges	Societal Challenges
<b>Digital transformation in Health and Care</b> H2020-SC1-DTH-2018-2020 Publication date: 27 October 2017	<b>Better Health and care, economic growth and sustainable health systems</b> H2020-SC1-BHC-2018-2020 Publication date: 27 October 2017	<b>Trusted digital solutions and Cybersecurity in Health and Care</b> H2020-SC1-FA-DTS-2018-2020 Publication date: 27 October 2017

In addition to the search facilities, the full list of H2020 Calls can be found [here](#).

# El segundo paso es descargar la información específica de la convocatoria de

European Commission > Research & Innovation > Participant Portal > Opportunities

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE PROJECTS & RESULTS EXPERTS SUPPORT LOGIN REGISTER

**EU Programmes 2014-2020**

Search Topics

Updates

Calls

- H2020
- 3rd Health Programme
- Asylum, Migration and Integration Fund
- Consumer Programme
- COSME
- European Statistics Programme
- Hercule III Programme
- Internal Security Fund - Borders
- Internal Security Fund - Police
- Justice Programme
- Pilot Projects & Preparatory Actions
- Promotion of Agricultural Products
- Research Fund for Coal & Steel
- Rights, Equality and Citizenship Programme
- Union Civil Protection Mechanism


**FP7 & CIP Programmes 2007-2013**

- Calls

[Call budget overview](#)

**CALL: BETTER HEALTH AND CARE, ECONOMIC GROWTH AND SUSTAINABLE HEALTH SYSTEMS**

Call identifier: H2020-SC1-BHC-2018-2020  
Publication date: 27 October 2017

 **Horizon 2020** [H2020 website](#)

Pillar: Societal Challenges  
Work Programme Year: H2020-2018-2020  
Work Programme Part: [Health, demographic change and wellbeing](#)

**Call summary and aims** [+ More](#)

*This call will aim at reconciling better health and healthy ageing with the need to develop sustainable health and care systems and growth opportunities for the health and care related industries. The scope of the call may range from prevention, diagnosis, stratified approaches, predictive toxicology, the*

**Topics and submission service**

To access the **Submission Service**, please **select the TOPIC** of your interest and then open the Submission Service tab. To access **existing draft proposals**, please login to the portal and select My Proposals from the My Area menu.

**Status**  Forthcoming  Open  Closed

**Sort by**  (Planned) opening date  Deadline  Topic title  Topic identifier

**Topic:** [SC1-BHC-01-2019: Understanding causative mechanisms in co- and multimorbidities](#) Forthcoming

**Publication date:** 27 October 2017

**Types of action:** RIA Research and Innovation action

<b>DeadlineModel:</b> two-stage	<b>Deadline:</b> 02 October 2018 17:00:00
<b>Opening date:</b> 26 July 2018	<b>2nd stage Deadline:</b> 16 April 2019 17:00:00

Time Zone : (Brussels time)

**Topic:** [SC1-BHC-02-2019: Systems approaches for the discovery of combinatorial therapies for complex disorders](#) Forthcoming

**Publication date:** 27 October 2017

**Types of action:** RIA Research and Innovation action

<b>DeadlineModel:</b> two-stage	<b>Deadline:</b> 02 October 2018 17:00:00
<b>Opening date:</b> 26 July 2018	<b>2nd stage Deadline:</b> 16 April 2019 17:00:00

Time Zone : (Brussels time)

Cómo participar: aspectos clave en la preparación de una propuesta de éxito

**SCI-BHC-01-2019: Understanding causative mechanisms in co- and multimorbidities**

Specific Challenge: The increasing number of individuals with co-and multimorbidities poses an urgent need to improve management of patients with multiple co-existing diseases. A better understanding of their causative mechanisms is needed to develop early diagnosis, efficient prevention and monitoring, and better treatments adapted to co- and multimorbid patients throughout their life course. Furthermore, there are many different etiological models of comorbid conditions (e.g., direct causation model or a consequence of treatment). In this context, capturing and measuring patient's complexity in the context of co- and multimorbidities is crucial for adequate management of these conditions and requires innovative approaches.

Scope: Proposals should identify and validate causative mechanisms (e.g. molecular, genetic, correlative, drug-drug interaction) combining mental and physical disorders through the integration of basic, pre-clinical and/or clinical research<sup>11</sup>. Applicants should prove the relevance of the identified mechanisms for co-morbid development. Where pertinent, development of biomarkers and other technologies for diagnosis and monitoring of comorbid conditions in patients is encouraged. A purposeful exploitation of existing data, biobanks, registries and cohorts is expected<sup>12</sup>, but does not exclude generation of new data. Sex and gender aspects, age, socio-economic, lifestyle and behavioural factors and any other non-health related individual attributes should be taken into consideration. SME participation is strongly encouraged.

The Commission considers that proposals requesting a contribution from the EU of between EUR 4 and 6 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:

- New directions for clinical research to improve prevention, diagnosis, prognosis, therapy development, and management of co- and multimorbidities.
- Whenever relevant identified biomarkers for more accurate and earlier diagnosis, prognosis as well as monitoring of patients' condition.

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.*

<sup>1</sup> Clinical trials are excluded

<sup>2</sup> Including any national, EU or international resource or infrastructure if appropriate.

Fuente:  
Programa de  
Trabajo  
publicado el 7  
de noviembre  
de 2017

# Hacia las convocatorias de SC1 2018-2019-2020

## 7 prioridades repartidas en 3 áreas

### Area 1. Better health and care, economic growth and sustainable health systems **(Topics BHC)**

1. Personalised medicine
2. Innovative health and care industry
3. Infectious diseases and improving global health
4. Innovative health and care systems – Integration of care
5. Decoding the role of the environment for health and well-being

### Area 2. Digital transformation in health and care **(Topics DTH)**

### Area 3. Trusted digital solutions and cybersecurity in health and care **(Topics TDS)**

➔ **Otras acciones: premios (en conv. 2020); Instrumento PYME y FTI aparte**

# Call ? Better Health and care, economic growth and sustainable health systems

## 1.1. Personalised Medicine (I)

- SC1-BHC-01-2019: Understanding causative mechanisms in co- and multimorbidities combining mental and physical disorders ? (4-6 M€/proyecto; 12-17 proyectos – total 70 M€)
- SC1-BHC-02-2019: Systems approaches for the discovery of combinatorial therapies (4-6 M€/proyecto; 8-12 proyectos – total 50 M€)
- SC1-BHC-03-2018: Exploiting research outcomes and application potential of the human microbiome for personalised prediction and prevention of disease (10-15 M€/proyecto 3-5 Proyectos – total 50 M€)
- SC1-BHC-04-2018: Rare Disease European Joint Programme Co-Fund (50 M€/Proyecto; 1 Proyecto – total 50 M€)



## 1.1. Personalised Medicine (II)

- SC1-BHC-05-2018: International flagship collaboration with Canada for human data storage, integration and sharing to enable personalised medicine approaches (4-6 M€/proyecto; 6-10 proyectos – total 40 M€)
- SC1-HCO-01-2018-2019-2020: Actions in support of the International Consortium for Personalised Medicine (1,5-2M€; 3 proyectos – total 8 M€ - 1 proyecto/año)
- SC1-HCO-02-2018: Data integration and data-driven in-silico models for enabling personalised medicine - a European standardization framework (1,5-2 M€; 1 proyecto – total 2 M€)
- SC1-HCO-04-2018: ERA-NET to support the Joint Programming in Neurodegenerative Diseases strategic plan (JPND) (4-5 M€; 1 proyecto – total 5 M€)

## 1.2. Innovative health and care industry

- SC1-BHC-07-2019: Regenerative medicine: from new insights to new applications (6-8M€; 6-8 proyectos – total 50 M€)
- SC1-BHC-09-2018: Innovation platforms for advanced therapies of the future (12-15M€; 4-5 proyectos – total 50 M€)
- SC1-BHC-10-2019: Innovation Procurement: Next generation sequencing (NGS) for routine diagnosis (9-11 M€; 3-4 proyectos – total 40 M€)
- SC1-HCO-05-2018: Strengthening regulatory sciences and supporting regulatory scientific advice (1,5-2M€; 1 Proyecto – total 2 M€)

## 1.3 Infectious diseases and improving global health (I)

- SC1-BHC-13-2019: Mining big data for early detection of infectious disease threats driven by climate change and other factors ( 12-15 M€; 2-3 proyectos – total 30 M€)
- SC1-BHC-14-2019: Stratified host-directed approaches to improve prevention and/or cure of infectious diseases (6-10 M€; 10-16 proyectos – total 95 M€)
- SC1-BHC-15-2018: New anti-infective agents for prevention and/or treatment of neglected infectious diseases (NID) (5-10 M€; 5-10 proyectos – total 52 M€) (lump sum pilot)

## 1.3 Infectious diseases and improving global health (II)

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- SC1-BHC-16-2018: Global Alliance for Chronic Diseases (GACD) - Scaling-up of evidence-based health interventions at population level for the prevention, detection, and management of hypertension and/or diabetes (2-4 M€; 5-10 proyectos – total 20 M€)
- SC1-BHC-18-2019: EU-CELAC collaboration for research on non-communicable diseases (2 - 4M€; 6-12 proyectos – total 25 M€)
- SC1-BHC-19-2019: Implementation research for maternal and child health (2-4M€; 6-12 proyectos – total 25 M€)

## 1.3 Infectious diseases and improving global health (III)

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- SC1-BHC-21-2018: Research on HIV, tuberculosis and/or hepatitis C in patients with mono-, co-infections or comorbidities in the context of the collaboration between the European Union and the Russian Federation (2-4 M€; 2-5 proyectos – total 10 M€)
- SC1-HCO-06-2018: Establishment of an International Network of Research Centres addressing governance challenges in the research response to infectious threats (2-3 M€; 1 proyecto – total 3 M€)

## 1.3 Infectious diseases and improving global health (IV)

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- SC1-HCO-08-2018: Creation of a European wide sustainable clinical research network for infectious diseases (2-3M€; 1 proyecto – total 3 M€)
- SC1-HCO-09-2018: Building international efforts on population and patient cohorts (1-2 M€; 1 proyecto – total 2 M€)
- SC1-HCO-10-2018: Coordinating European brain research and developing global initiatives (1-2 M€; 1 proyecto – total 2 M€)
- SC1-HCO-11-2018: Strategic collaboration in health and care research and innovation between EU and China (0,8-1 M€; 1 proyecto – total 1 M€)

## 1.4 Innovative health and care systems - Integration of care (I)

- SC1-BHC-22-2019: Mental health in the workplace (2-4 M€; 7-15 proyectos – total 30 M€)
- SC1-BHC-23-2018: Novel patient-centred approaches for survivorship, palliation and end-of-life care (3-4 M€; 11-14 proyectos – total 44 M€)
- SC1-BHC-25-2019: Demonstration pilots for implementation of personalised medicine in health care (18 - 20 M€; 3 proyectos – total 60 M€)
- SC1-BHC-26-2018: HTA research to support evidence-based healthcare (5-10 M€; 1-2 proyectos – total 10 M€)
- SC1-HCO-12-2018: Innovation in health care – a CSA towards using pre-commercial procurement and public procurement of innovative solutions in health care systems (1,5-2 M€; 1 proyecto – total 2 M€)

## 1.5 Decoding the role of the environment for health and well-being

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- SC1-BHC-27-2018: New testing and screening methods to identify endocrine disrupting chemicals (4-6 M€; 8-12 proyectos – total 52 M€)
- SC1-BHC-28-2019: The Human Exposome Project: a toolbox for assessing and addressing the impact of environment on health (8-12M€; 4-6 proyectos – total 50 M€)
- SC1-HCO-13-2018: Setting the priorities for a European environment and health research agenda (2-3 M€; 1 proyecto – total 3 M€)



## Call ? Digital transformation in Health and Care (I)

- SC1-DTH-01-2019: Big data and Artificial Intelligence for monitoring health status and quality of life after the cancer treatment (3-5 M€; 5-7 proyectos – total 35 M€)
- SC1-DTH-03-2018: Adaptive smart working and living environments supporting active and healthy ageing (3-4 M€; 6-8 proyectos – total 25 M€)
- SC1-DTH-05-2019: Large scale implementation of digital innovation for health and care in an ageing society (2-5 M€; 2-5 proyectos – total 10 M€)
- SC1-DTH-07-2018: Exploiting the full potential of in-silico medicine research for personalised diagnostics and therapies in cloud-based environments (10-15 M€; 2-3 proyectos – total 35 M€)

## Call ? Digital transformation in Health and Care (II)

- SC1-DTH-08-2018: Prototyping a cloud-based standardised Personal Health Record/Electronic Health Record for Europe (6–10 M€; 3-5 proyectos – total 30 M€)
- SC1-DTH-09-2019: Scaling up the univocal identification of Medicinal Products (5-8 M€; 2-4 proyectos – total 19 M€)
- SC1-DTH-10-2019-2020: Digital health and care services (5-6 M€; 3-4 proyectos – total 22 M€)
- SC1-DTH-11-2019: Large Scale pilots of personalised & outcome based integrated care (4-6 M€; 3-5 proyectos – total 20 M€)
- SC1-HCC-01-2018: Supporting investment in smart living environments for ageing well through certification (1 M €; 1 proyecto – total 1 M€)

## Call ? Digital transformation in Health and Care (III)

- SC1-HCC-02-2019: Support for the large scale uptake of open service platforms in the Active and Healthy Ageing domain (1,5 M€; 1 proyecto – total 1,5 M€)
- SC1-HCC-03-2018: Support to further development of international cooperation in digital transformation of health and care (2 M€; 1 proyecto – total 2 M€)
- SC1-HCC-04-2018: Digital health and care services – support for policy, strategy and (early) adoption (3 M€; 1 proyecto – total 3 M€)
- SC1-HCC-05-2018: Support to a Digital Health and Care Innovation initiative in the context of Digital Single Market strategy (4 M€; 1 proyecto – total 4 M€)

## Call ? Trusted Digital Solutions and Cybersecurity in Health and Care

- DT-TDS-01-2019: Smart and healthy living at home (15-20 M€; 3-4 proyectos – total 60 M€)
- SU-TDS-02-2018: Toolkit for assessing and reducing cyber risks in hospitals and care centres to protect privacy/data/infrastructures (3-5 M€; 7-12 proyectos – total 35 M€)
- SU-TDS-03-2018: Raising awareness and developing training schemes on cybersecurity in hospitals (1 M€; 1 proyecto – total 1 M€)



## Tabla de fechas (I)

Conv.	Nº de topic	Apertura	Fecha de cierre
<b>Convocatoria BHC</b>			
<b>2018</b>	SC1-BHC-3 / 4 / 5 / 9 / 16 / 18 / 21 / 23 / 26 / 27		18.04.2018
	SC1-HCO-2 / 4 / 5 / 6 / 9 / 10 / 11 / 12 / 13	07.11.2017	
	SC1-BHC-15		<b>Etapa 1</b> 06.02.2018 <b>Etapa 2</b> 04.09.2018
<b>2019</b>	SC1-BHC-7 / 10 / 13 / 28 SC1-HCO-1 / 2	26.07.2018	16.04.2019
	SC1-BHC-1 / 2 / 14 / 19 / 22 - 25		<b>Etapa 1</b> 02/10/2018 <b>Etapa 2</b> 16.04.2019



## Tabla de fechas (II)

Conv.	Nº de topic	Apertura	Fecha de cierre
<b>Convocatoria DTH</b>			
<b>2018</b>	SC1-DTH-3 / 7 / 8 / SC1-HCC-1 / 3 / 4 / 5	07.11.2017	24.04.2018
<b>2019</b>	SC1-DTH-1 / 5 / 9 / 11 SC1-HCC-2	16.10.2018	24.04.2019
<b>2018</b>	SC1-DTH-10	26.07.2018	14.11.2018



## Tabla de fechas (III)

Conv.	Nº de topic	Apertura	Fecha de cierre
<b>Convocatoria TDS</b>			
<b>2018</b>	SC1-SU-TDS- 02/03	07.11.2017	24.04.2018
<b>2019</b>	DT-TDS-01	26.07.2018	14.11.2018

# Avance convocatorias 2020

*Las convocatorias 2018-2019-2020 del Reto Social 1 de H2020*



## Prioridad 1.1. Personalised Medicine

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- SC1-BHC-06-2020: Digital diagnostics – developing tools for clinical decisions integrating in vitro and in vivo diagnostics
- SC1-HCO-01-2018-2019-2020: Actions in support of the International Consortium for Personalised Medicine
- SC1-HCO-03-2020: Improving EU-13 participation in EU-supported health research programmes
- SC1-HCO-14-2020: ERA-NET Place holder 2

## Priority 1.2 Innovative health and care industry

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- SC1-BHC-08-2020: New therapies for Non Communicable Diseases
- SC1-BHC-11-2020: New, animal-free regulatory test methods for human safety testing at the horizon of 2030
- SC1-BHC-12-2020: Boosting the translation of results of health research into validated, innovative applications

## Priority 1.3 Infectious diseases and improving global health

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- SC1-BHC-17-2020: Global Alliance for Chronic Diseases (GACD) 2
- SC1-BHC-20-2020: Using pre-commercial procurements and public procurement of innovative solutions in health care systems to: - reduce the risk of hospital-acquired infections and/or - improve integrated care
- SC1-HCO-07-2020: ERA-NET Place holder 1

## Priority 1.4 Innovative health and care systems ? Integration of care

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- SC1-BHC-24-2020: Healthcare interventions for the management of the elderly multimorbid patient

## Priority 1.5 Decoding the role of the environment for health and well-being

- SC1-BHC-29-2020: Environment, climate change and health – novel mitigating measures for improving population health

## Call ? Digital Transformation and Care

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- SC1-DTH-02-2020: Personalised early risk prediction, prevention and intervention, RIA
- SC1-DTH-04-2020: International cooperation in digital solutions and robotics for independent living
- SC1-DTH-06-2020: Accelerating the uptake of *in-silico* methods for testing medicines with dermatological use and cosmetic products

## Call ? Digital Transformation in Health and Care

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- SC1-DTH-10-2019-2020: eHealth and care services
- SC1-HCC-06-2020: Support to eHealth Innovation ecosystems in Europe
- SC1-HCC-07-2020: Support for European eHealth Interoperability roadmap deployment
- SC1-HCC-08-2020: Scaling up innovation for active and healthy ageing
- SC1-HCC-09-2020: Supporting deployment of eHealth in developing countries for better health outcomes

# Call ? Trusted digital solutions and Cybersecurity in Health and Care

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DT-ICT-13-2020 The smart hospital of the future

*Las convocatorias 2018-2019-2020 del Reto Social 1 de H2020*



## Presupuestos Totales \*

- **Convocatoria SC1 2018:** 621,19 M€
- **Convocatoria SC1 2019:** 686,38 M€
- **Convocatoria SC1 2020:** 697,72 M€

\*: pueden verse modificados

## The participation of UK in European projects

- Until the UK leaves the EU, EU law continues to apply to and within the UK, when it comes to rights and obligations; this includes the eligibility of UK legal entities to fully participate and receive funding in Horizon 2020 actions.
- Be aware however that the eligibility criteria must be complied with for the entire duration of the grant.
- If the United Kingdom withdraws from the EU during the grant period without concluding an agreement with the EU ensuring in particular that British applicants continue to be eligible, UK partners will cease to be eligible to receive EU funding (while continuing, where possible, to participate) or be required to leave the project on the basis of Article 50 of the Grant Agreement.

## Financiación de proyectos en otros programas de H2020

- NMBP-21-2018: Custom-made biological scaffolds for specific tissue regeneration and repair
- NMBP-22-2018: Osteo-articular tissues regeneration
- DT-NMBP-23-2020: Next generation organ-on-chip (RIA)
  
- SFS-04-2019/2020 Integrated health approaches and alternatives towards pesticide use
  - A. [2019]: Integration of plant protection in a Global Health approach
  - B. [2020] Biocidal and plant protection products
- SFS-16-2018 Towards more healthy and sustainable food



# Hablaremos de

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1. Resultados participación España en H2020
2. Introducción al HORIZON 2020
3. Programa de Trabajo 2018-2020 – Reto Social 1 “Salud, Cambio demográfico y Bienestar”

# La Iniciativa de Medicamentos Innovadores (IMI). Base conceptual

“Deciphering the complexity of human diseases and finding safe, cost-effective solutions that help people live healthier lives requires **collaboration across scientific and medical communities throughout the health care ecosystem.**”

Indeed, we must acknowledge that **no single institution, company, university, country, or government has a monopoly on innovation.**”

*Sci Transl Med* 29 January 2014:  
Vol. 6, Issue 221, p. 221ed2  
Sci. Transl. Med. DOI: 10.1126/scitranslmed.3008294

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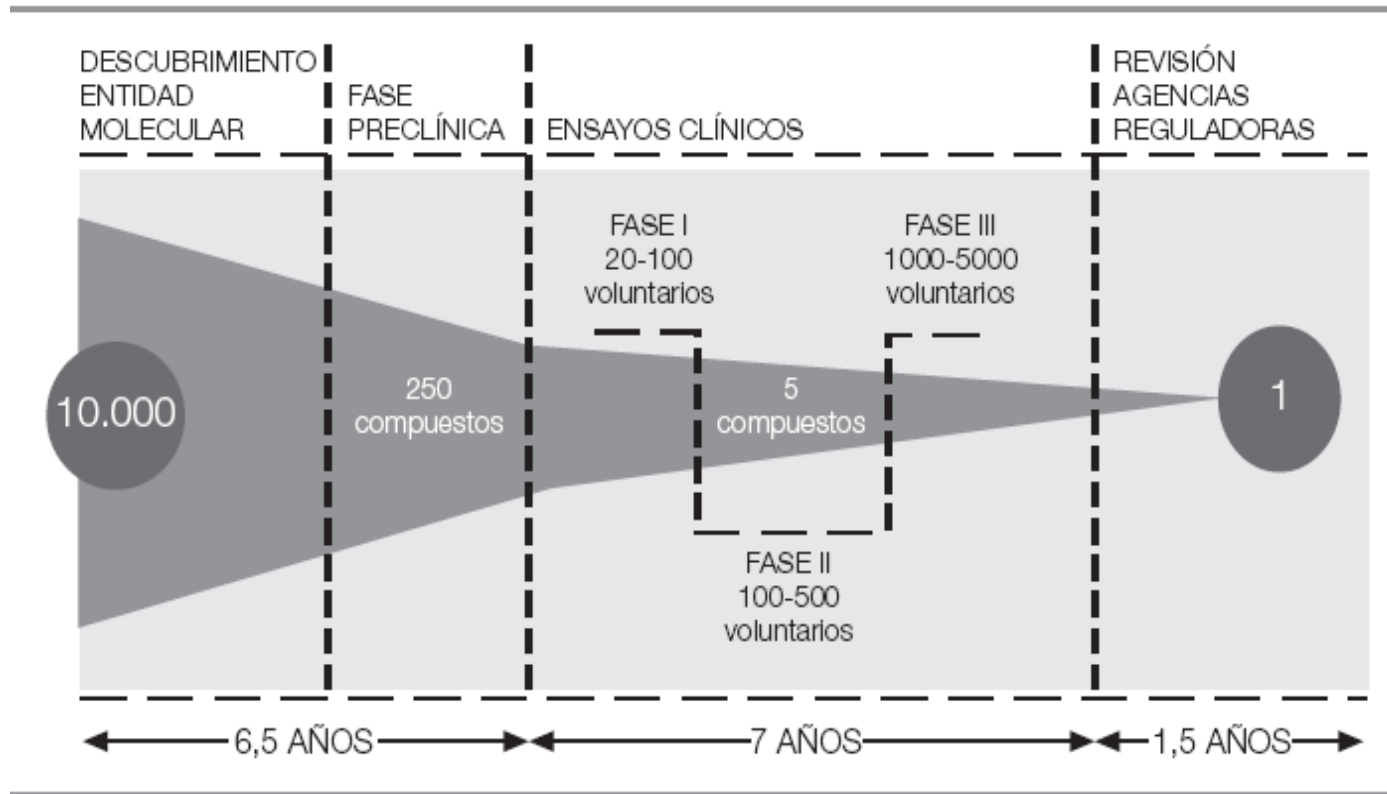
**EDITORIAL**

**DRUG DISCOVERY**

**Turning the Titanic**

Elias A. Zerhouni

# Los riesgos del desarrollo farmacéutico



Vida total de la patente: 20 años

¡5 años para explotación!

Las convocatorias 2018-2019-2020 del Reto Social 1 de H2020

## ¿Por qué hace falta IMI 2?

Los desarrollos clínicos son

complejos

arriesgados

caros

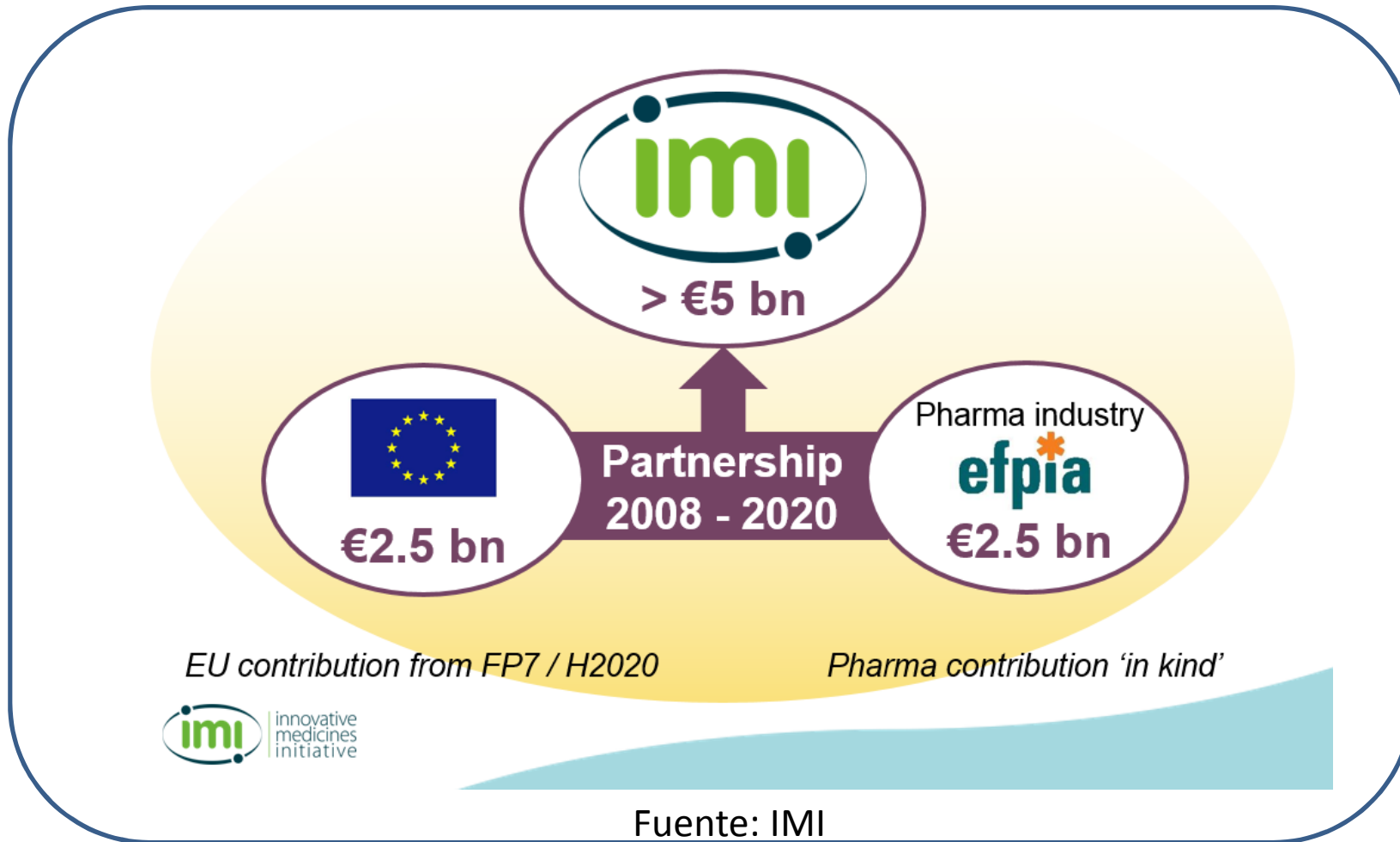
largos

ineficientes

Porque:

- Los mecanismos biológicos de las enfermedades son complejos.
- El diseño de los ensayos clínicos tiene que adaptarse al conocimiento científico.
- La normativa regulatoria debe adaptarse a la evolución de la ciencia.

## La Iniciativa de Medicamentos Innovadores 2





# Hacia la 13ª convocatoria de IMI

- Assessment of the uniqueness of diabetic cardiomyopathy relative to other forms of heart failure using unbiased pheno-mapping approaches
- Genome-environment interactions in inflammatory skin disease
- The value of diagnostics to combat antimicrobial resistance by optimising antibiotic use
- Mitochondrial dysfunction in neurodegeneration
- Support and coordination action for the projects of the neurodegeneration area of the innovative medicines initiative
- A sustainable European induced pluripotent stem cell platform
- Linking digital assessment of mobility to clinical endpoints to drive regulatory acceptance and clinical practice
- Human tumour microenvironment immunoprofiling
- CONCEPTION – continuum of evidence from pregnancy exposures, reproductive toxicology and breastfeeding to improve outcomes now
- Improving the preclinical prediction of adverse effects of pharmaceuticals on the nervous system
- Translational safety biomarker pipeline (TRANSBIOLINE): enabling development and implementation of novel safety biomarkers in clinical trials and diagnosis of disease
- Federated and privacy-preserving machine learning in support of drug discovery
- Pilot programme on a clinical compound bank for repurposing

This programme includes the following topics:

- Cardiovascular diseases and diabetes
- Respiratory diseases
- Neurodegenerative diseases
- Rare/orphan diseases

# Pero hay más oportunidades en Salud...



Las convocatorias 2018-2019-2020 del Reto Social 1 de H2020

# Las oportunidades en el European Innovation Council (EIC)

Instrument →	SME-Instrument		FTI	FET-Open
	Phase 1	Phase 2		
<b>For whom</b>	One or more European <sup>1</sup> SMEs		From 3 to 5 European <sup>1</sup> entities (mostly industrial <sup>2</sup> )	At least 5 entities (some of them SMEs)
<b>Maximum funding<sup>4</sup></b>	50,000 €	2.5 M€	3 M€	up to 10 M€ per prize
<b>Total budget 2018-20</b>	163 M€	1421 M€	700 M€	40 M€
<b>Focus</b>	Exploring the feasibility of a business idea (~ 6 months)	Breakthrough innovation & international growth (12 months)	From 3 to 5 European <sup>1</sup> entities (mostly industrial <sup>2</sup> )	6 different topics (major societal issues)

<sup>1</sup> any applicant established in an EU Member State or Associated Country as of 1 January 2020

<sup>2</sup> This industry involvement implies: (a) the presence of a minimum budget to industry participants in the consortium, or (b) the presence of a minimum number of two industry participants in a consortium of five partners

<sup>3</sup> A FET-Open consortium must be composed of at least three partners from 3 different EU Member States or Associated Countries. In addition to these three partners, any legal entity from anywhere in the world can participate in the consortium.

<sup>4</sup> per project – with a maximum of 10 prizes per instrument.

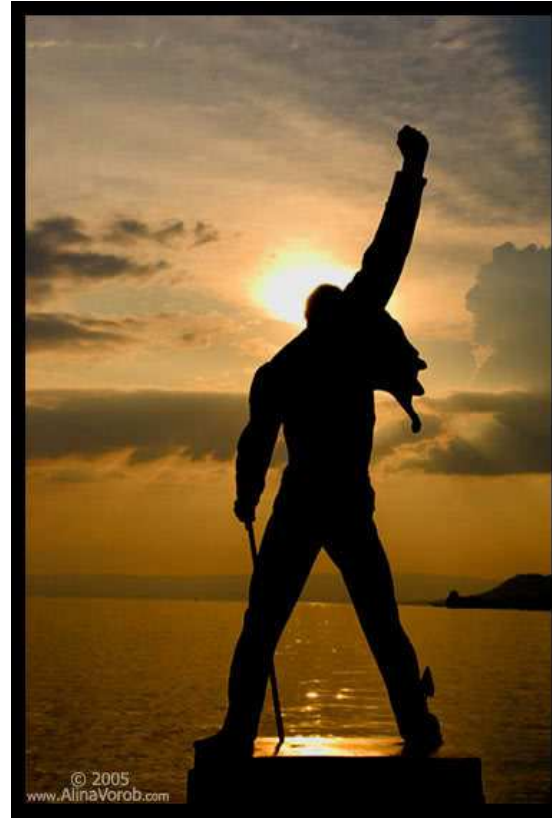
**Full bottom-up and introduction of interviews are the main new features of the evaluation under EIC Pilot**

<https://ec.europa.eu/research/eic/index.cfm?pg=funding>

Las convocatorias 2018-2019-2020 del Reto Social 1 de H2020



¡A por ello!



Las convocatorias 2018-2019-2020 del Reto Social 1 de H2020

Juan E. Riese  
[jriese@eu-isciii.es](mailto:jriese@eu-isciii.es)  
Tel. 918222181

Información sobre convocatorias en: <http://eu-isciii.es>

