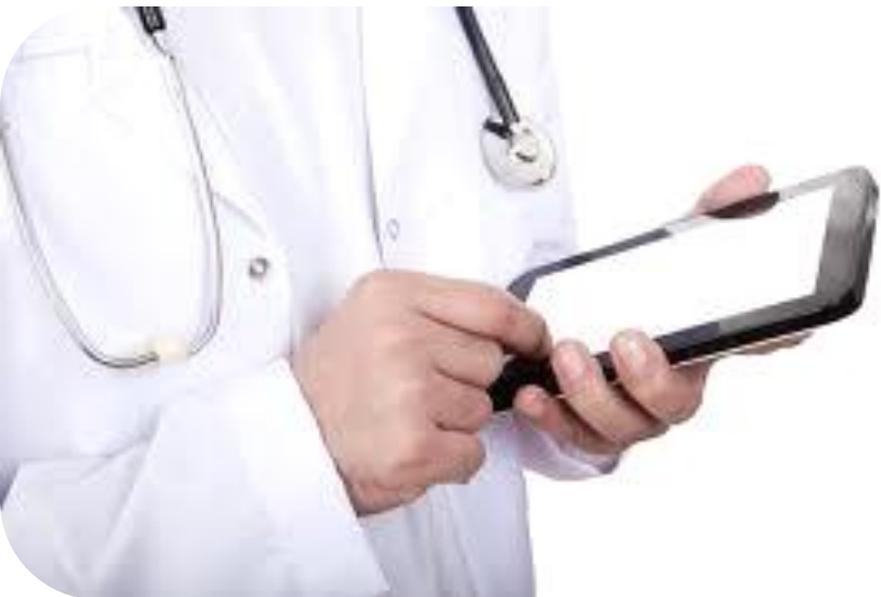


Taller Colaboración empresarial y oportunidades de I+D+i en TIC Salud



“Oportunidades TIC Salud en Europa”

Javier Valero Criado
Secretaría Plataforma eVIA
20 de noviembre de 2016

eVIA

Plataforma de Tecnologías para
la Salud y la Vida Activa e Independiente

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la Salud y la Vida Activa e Independiente



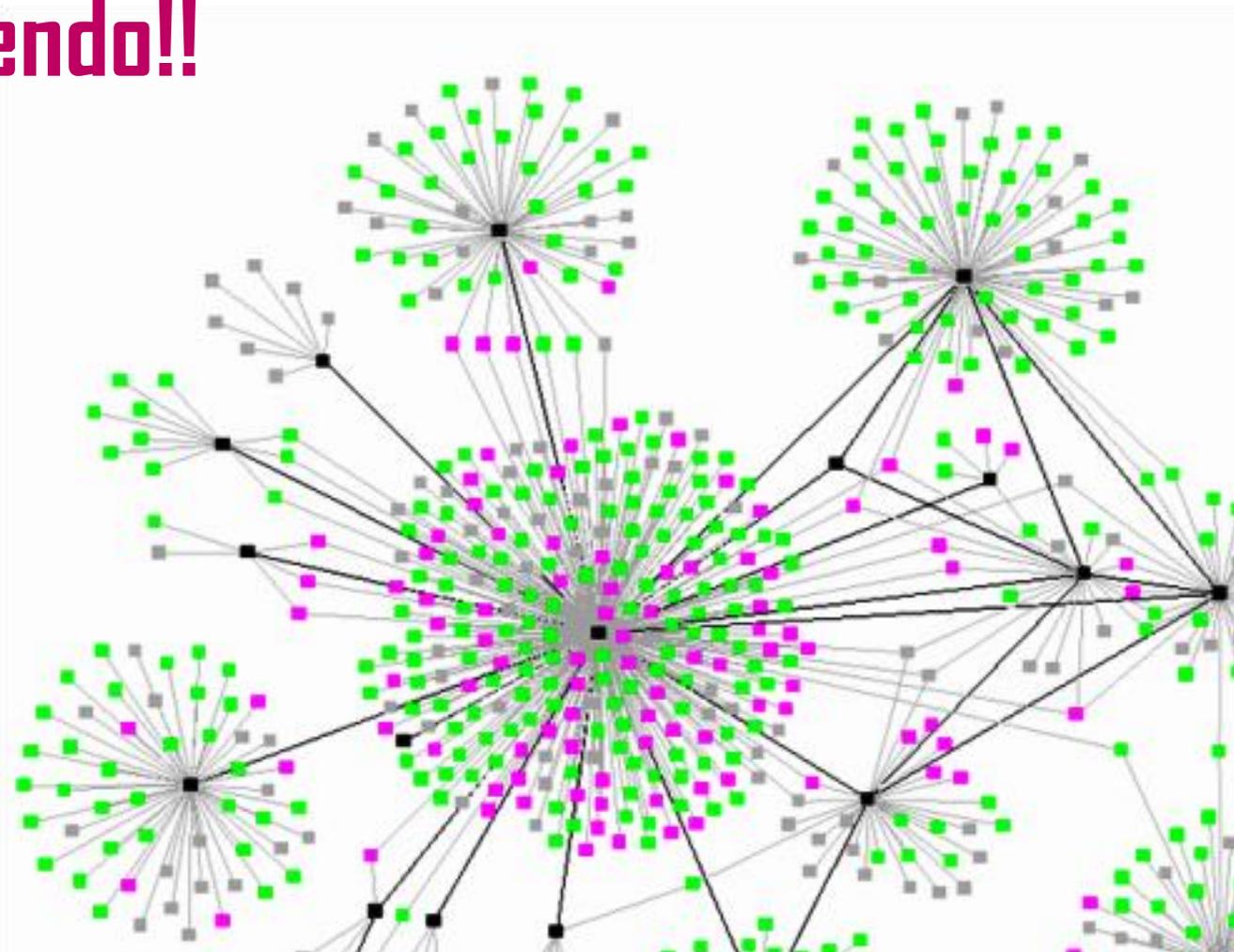
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Family

Friends

Fools

¿Dónde acudimos cuando se agotan estas vías?

¿acudimos a inversores privados...



Capital Riesgo

Business Angels



Crowdfunding

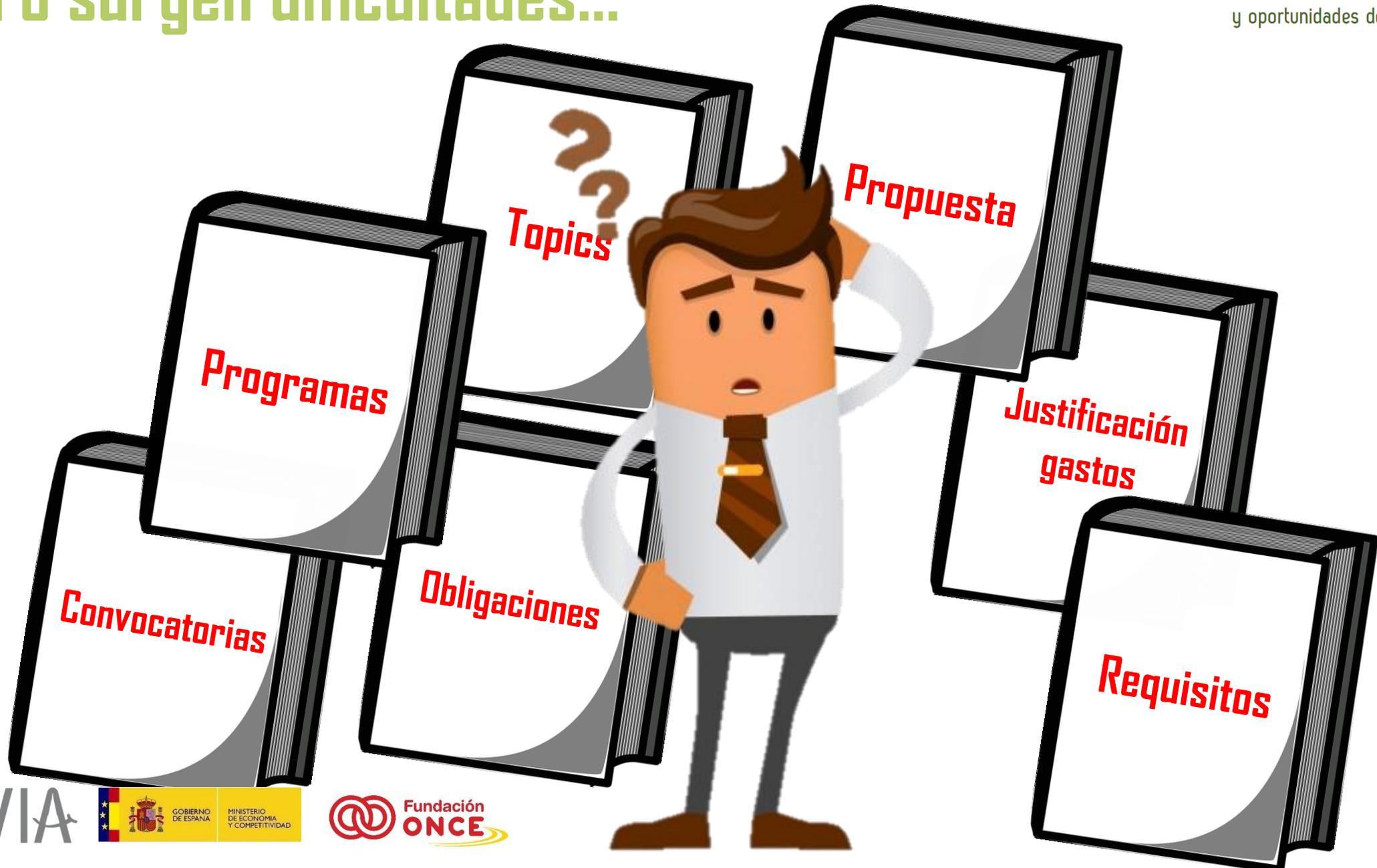
...u optamos por los fondos públicos



FINANCIACIÓN PÚBLICA



Pero surgen dificultades...



¿Qué se financia en los programas públicos?



Diseño y definición de requisitos



Desarrollos tecnológicos



Prototipo o piloto



Test de evaluación



Despliegue en condiciones reales



Elaboración de un plan de marketing



Acabado y producto comercial



Costes de producción y escalado



Distribución

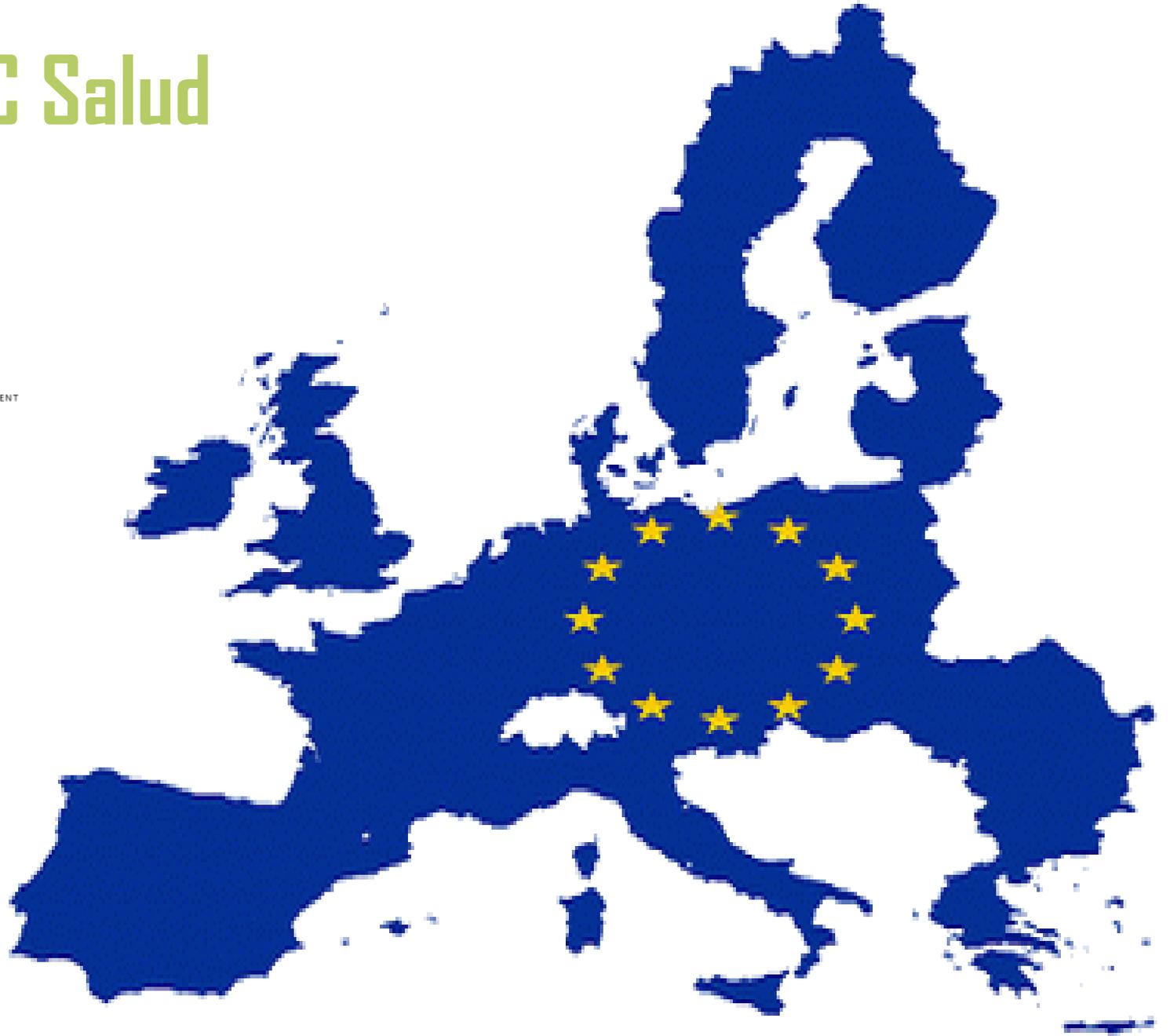


Mantenimiento, actualización y mejora

¿Que oportunidades TIC Salud existen en Europa?



INFORMATION TECHNOLOGY FOR EUROPEAN ADVANCEMENT



THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

The image features a central graphic of a glowing blue globe with a smaller globe in the center, surrounded by light rays, set against a dark blue background. The text "HORIZON 2020" is prominently displayed in white, with the globe acting as the letter 'O' in "HORIZON".

HORIZONTE 2020

¿A que me estoy enfrentando?

¿Es mi idea apropiada?

¿Merece la pena invertir tiempo y recursos?



HORIZONTE 2020

¿A que me estoy enfrentando?

Al Programa más competitivo de Europa

A un programa totalmente estructurado

A un programa con una historia de más de 30 años

A un reto muy exigente...

...pero posible

HORIZONTE 2020

77.028

I. Prioridad «Ciencia excelente»	24.441
1. El Consejo Europeo de Investigación (CEI)	13.095
2. Las Tecnologías Futuras y Emergentes (FET)	2.696
3. Las acciones Marie Skłodowska-Curie	6.162
4. Las infraestructuras de investigación	2.488

II. Prioridad «Liderazgo industrial»	17.016
1. Liderazgo en tecnologías industriales y de capacitación:	13.557
1.1 Tecnologías de la información y la comunicación (TIC)	7.711
1.2 Nanotecnologías, 1.3 Materiales avanzados y 1.5 Fabricación y transformación avanzadas	3.851
1.4 Biotecnología	516
1.6 Espacio	1.479
2. Acceso a la financiación de riesgo	2.812
3. Innovación en las PYME	616

III. Prioridad «Retos de la sociedad»	29.679
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

Difundir la excelencia y ampliar la participación **816**

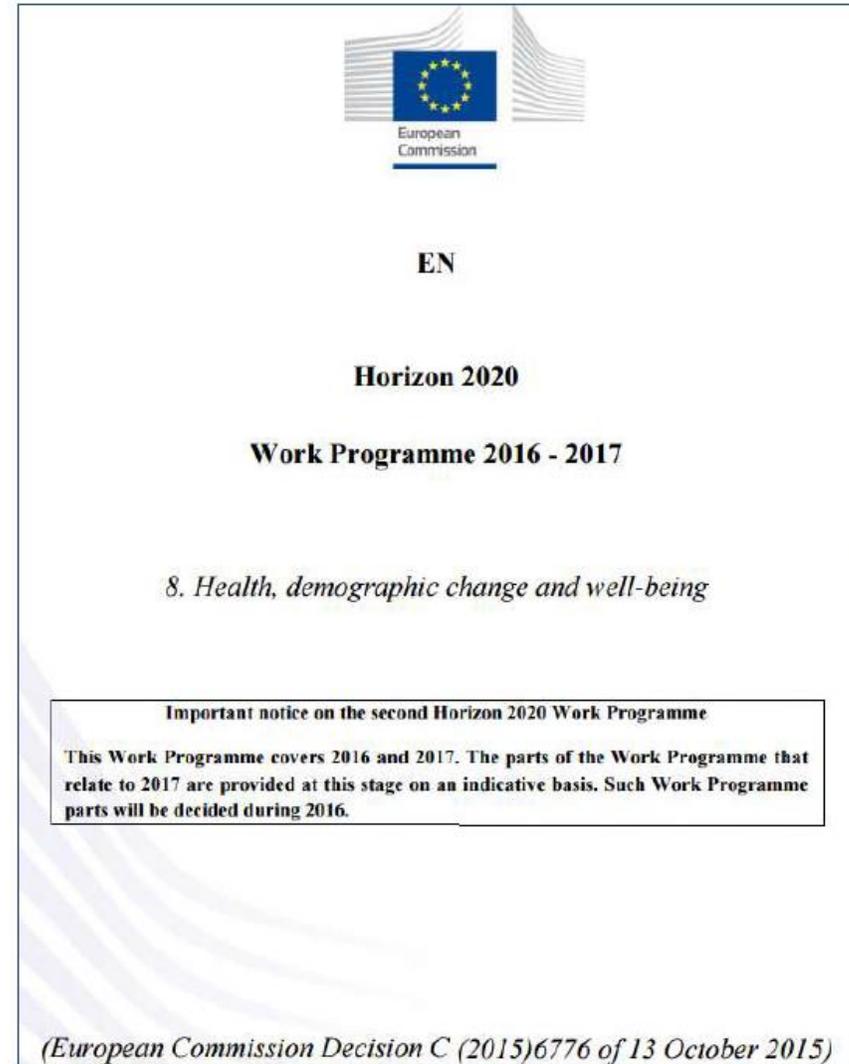
Ciencia con y para la sociedad **462**

Instituto Europeo de Innovación y Tecnología (EIT) **2.711**

Acciones directas no nucleares del Centro Común de Investigación (JRC) **1.903**

RETO 1: El programa de trabajo (Work Programme)

- *Active Ageing*
- *Well Being*
- *Personalized Health*
- *Empowering Patient*
- *Chronic Disease*
- *SME's, PCP, PPI...*



http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-health_en.pdf

RETO 1: Salud, cambio demográfico y bienestar

Qué retos que afronta Europa:

- Una población envejecida y envejeciendo
- Una creciente carga de las enfermedades, y especialmente las crónicas.
- Unos sistemas sanitarios y asistenciales insostenibles y bajo presión



RETO 1: Salud, cambio demográfico y bienestar

Objetivos a perseguir:

- La salud a lo largo de la vida y el bienestar de todos,
- Unos sistemas sanitarios y asistenciales de alta calidad y económicamente sostenibles e innovadores
- Y oportunidades para generar nuevos puestos de trabajo y crecimiento.



RETO 1: Salud, cambio demográfico y bienestar

Líneas generales de las actividades

1. Comprender la salud, el bienestar y la enfermedad
2. Prevenir la enfermedad
3. Tratamiento y gestión de las enfermedades
4. Métodos y datos
5. Prestación de atención sanitaria y asistencia integrada
6. Envejecimiento activo y autogestión de la salud

RETO 1: Personalised Medicine

Call - Personalised Medicine 8

1.1 Understanding health, well-being and disease 8

- SCI-PM-01-2016: Multi omics for personalised therapies addressing diseases of the immune system 8
- SCI-PM-02-2017: New concepts in patient stratification 9
- SCI-PM-03-2017: Diagnostic characterisation of rare diseases 10
- SCI-PM-04-2016: Networking and optimising the use of population and patient cohorts at EU level 11

1.2. Preventing disease 13

- SCI-PM-05-2016: The European Human Biomonitoring Initiative 13
- SCI-PM-06-2016: Vaccine development for malaria and/or neglected infectious diseases 16
- SCI-PM-07-2017: Promoting mental health and well-being in the young 18

1.3 Treating and managing diseases 19

- SCI-PM-08-2017: New therapies for rare diseases 19
- SCI-PM-09-2016: New therapies for chronic diseases 21
- SCI-PM-10-2017: Comparing the effectiveness of existing healthcare interventions in the adult population 22
- SCI-PM-11-2016-2017: Clinical research on regenerative medicine 23
- SCI-PM-22-2016: Addressing the urgent research gaps against the Zika virus and other emerging threats in Latin America 24

1.4 Active ageing and self-management of health 27

- SCI-PM-12-2016: PCP - eHealth innovation in empowering the patient 27
- SCI-PM-13-2016: PPI for deployment and scaling up of ICT solutions for active and healthy ageing 29
- SCI-PM-14-2016: EU-Japan cooperation on Novel ICT Robotics based solutions for active and healthy ageing at home or in care facilities 31
- SCI-PM-15-2017: Personalised coaching for well-being and care of people as they age... 33

1.5 Methods and data 34

- SCI-PM-16-2017: In-silico trials for developing and assessing biomedical products 34
- SCI-PM-17-2017: Personalised computer models and in-silico systems for well-being 36
- SCI-PM-18-2016: Big Data supporting Public Health policies 37
- SCI-PM-19-2017: PPI for uptake of standards for the exchange of digitalised healthcare records 39





EN

Horizon 2020

Work Programme 2016 - 2017

8. Health, demographic change and well-being

Important notice on the second Horizon 2020 Work Programme

This Work Programme covers 2016 and 2017. The parts of the Work Programme that relate to 2017 are provided at this stage on an indicative basis. Such Work Programme parts will be decided during 2016.

(European Commission Decision C (2015)6776 of 13 October 2015)

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-health_en.pdf

RETO 1: Coordination Activities



EN

Horizon 2020

Work Programme 2016 - 2017

8. Health, demographic change and well-being

Important notice on the second Horizon 2020 Work Programme

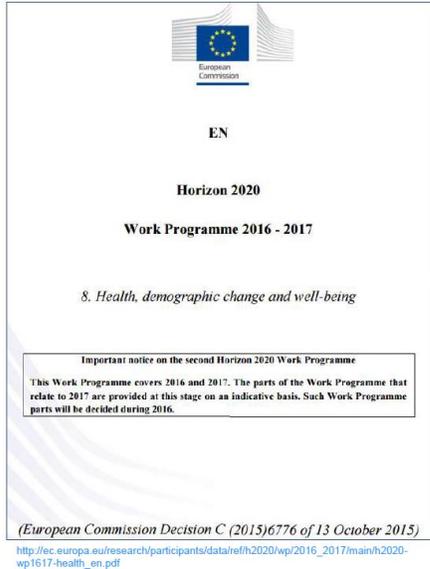
This Work Programme covers 2016 and 2017. The parts of the Work Programme that relate to 2017 are provided at this stage on an indicative basis. Such Work Programme parts will be decided during 2016.

(European Commission Decision C (2015)6776 of 13 October 2015)

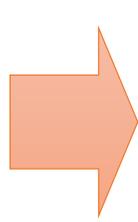


Coordination activities	43
SC1-HCO-01-2016: Valorisation of FP7 Health and H2020 SC1 research results	44
SC1-HCO-02-2016: Standardisation of pre-analytical and analytical procedures for in vitro diagnostics in personalised medicine	45
SC1-HCO-03-2017: Implementing the Strategic Research Agenda on Personalised Medicine.....	46
SC1-HCO-04-2016: Towards globalisation of the Joint Programming Initiative on Antimicrobial resistance.....	48
SC1-HCO-05-2016: Coordinating personalised medicine research	50
SC1-HCO-06-2016: Towards an ERA-NET for building sustainable and resilient health system models	51
SC1-HCO-07-2017: Global Alliance for Chronic Diseases (GACD) prevention and management of mental disorders.....	52
SC1-HCO-08-2017: Actions to bridge the divide in European health research and innovation.....	56
SC1-HCO-10-2016: Support for Europe’s leading Health ICT SMEs	57
SC1-HCO-11-2016: Coordinated action to support the recognition of Silver Economy opportunities arising from demographic change.....	58
SC1-HCO-12-2016: Digital health literacy.....	60
SC1-HCO-13-2016: Healthcare Workforce IT skills.....	62
SC1-HCO-14-2016: EU-US interoperability roadmap	63
SC1-HCO-15-2016: EU eHealth Interoperability conformity assessment	64
SC1-HCO-16-2016: Standardisation needs in the field of ICT for Active and Healthy Ageing	65
SC1-HCO-17-2017: Support for large scale uptake of Digital Innovation for Active and Healthy Ageing	66
Conditions for the Call - Personalised Medicine	70
Fast Track to Innovation Pilot	75
SME instrument	76
Other actions	81

¿Como nos lo vamos a encontrar?



WP bienal



Convocatorias (call)
«ordinarias»



Tipos de Acciones



¿Como nos lo vamos a encontrar?

- **Calls ≠ Topics**
- **Una call puede tener varios topics**
- **Las propuestas se presentan a un topic determinado**
- **Documentación básica de cada call:**
 - Programa de Trabajo (Introducción + específico + anexos generales)
 - Bases legales H2020: Reglamento + Reglas de Participación

¿Como nos lo vamos a encontrar?

Jornada-Taller

“Colaboración empresarial
y oportunidades de I+D+i en TIC Salud”

Topic

SCI-PM-10-2017: Comparing the effectiveness of existing healthcare interventions in the adult population

Specific Challenge: Effective health care and prevention may be improved by additional evidence as to the most effective health interventions. Growing numbers of patients affected by chronic diseases also call for efficiently managing co-morbidities.

Scope: Proposals should compare the use of currently available preventative or therapeutic (pharmacological as well as non-pharmacological) healthcare interventions in adults¹⁹. While there is no restriction on the diseases or interventions to be the focus of proposals, preference will be given to proposals focusing on interventions with high public health relevance and socio-economic impact, i.e. interventions addressing conditions that are particularly frequent, may lead to co-morbidities, have a high negative impact on the quality of life of the individual and/or are associated with significant costs or where savings can be achieved. A cost effectiveness analysis must be included. Given the focus on existing interventions, proposals will aim to contribute to improve interventions, take decisions about the discontinuation of interventions that are less effective or less cost-effective than others, and make recommendations on the most effective and cost-effective approaches. A comprehensive array of clinical and safety parameters, as well as health and socio-economic outcomes (e.g. quality of life, patient mortality, morbidity, costs, and performance of the health systems) for chosen populations should be assessed. Agreed core outcome sets (COS) should be used as endpoints in conditions where they already exist, in other cases efforts should be made to agree on such COS. Randomised controlled trials, pragmatic trials, observational studies, large scale databases and meta-analyses may be considered for this topic. Where relevant the study population should address gender as well as socio-economic differentials in health and/or any other factors that affect health equity.

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: This topic is to provide the required evidence base for:

- more effective and safer interventions at individual and population level;
- enhanced compliance with healthcare interventions in the adult population;
- the use of health technology assessment methodology in this target group.

In particular:

- Improvement of individual patient outcomes and health outcome predictability through tailoring of interventions.
- Improvement of guideline development for prevention or treatment of diseases and the management of comorbidities.
- Provision of more accurate information to patients, caregivers and prescribers.

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.

Descripcion del reto

Tipo de acción

Presupuesto

Resultados e
impacto esperado

Tipo de acciones H2020

Research and
Innovation Action

Innovation Action

- **Acciones de Investigación e Innovación (RIA)**
 - Objetivo: producir nuevo conocimiento y/o explorar la viabilidad de tecnologías, productos, procesos, servicios o soluciones nuevos o mejorados.
 - 100% financiación
 - Mínimo 3 participantes
- **Acciones de Innovación (IA)**
 - Actividades dirigidas a la elaboración de planes y estructuras o diseños de productos, procesos o servicios nuevos. Prototipos, ensayos, pilotos, demostradores, primeras replicaciones de mercado...
 - Más cercanas al mercado.
 - Orientadas a nuevas formas y fuentes de innovación (mas allá de la innovación tecnológica)
 - Mínimo 3 participantes 70% financiación Entidades "Profit" o 100% para "Non -Profit"

Tipo de acciones H2020

Coordination and
Support Actions (CSA)

- **Acciones de Coordinación y Apoyo (CSA)**

- Acciones destinadas a la elaboración de hojas de ruta, informes, convocatorias conjuntas, eventos o coordinación de diversos proyectos de una misma área
- Financiación 100%

ERANET - Cofund

- **Eranet Cofund**

- Programas conjuntos entre administraciones (nacionales o regionales; europeas y de terceros países)
- Fijan un programa de investigación común + convocatorias conjuntas.
- Cada país financia a sus participantes Financiación CE 33%

Tipo de acciones H2020

Pre-Commercial
Procurement = PCP

Public Procurement of
Innovative Solutions =
PPI

Fast Track to Innovation
= FTI

• Compra Pública Innovadora/Precomercial

- Política pública dinamizadora de la innovación desde la demanda
- Actuación de organismos públicos para de adquirir bienes y/o servicios novedosos e introducirlos por primera vez en el mercado.

• Fast Track to Innovation

- Proyectos cercanos al mercado e impulsados por el negocio (business driven).
- A diferencia del Instrumento PYME o el programa Eurostars, no está limitado únicamente a las PYME, pero sí requiere una fuerte participación de las empresas.
- El objetivo es reducir el tiempo desde la idea al mercado,

Tipo de acciones H2020

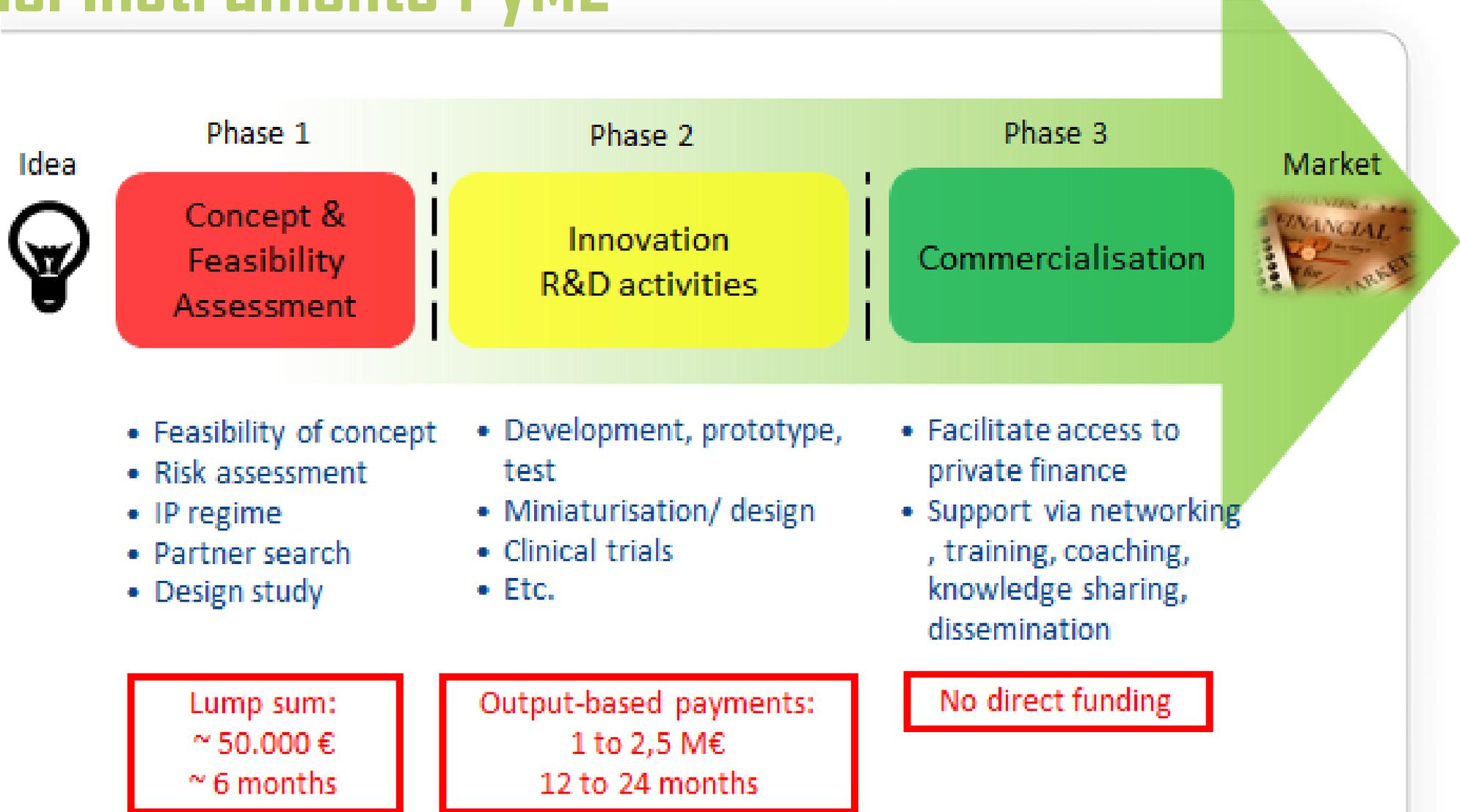


SME instrument

- **Instrumento PyME**

- Proyectos que solo podrán solicitar PYMEs (incluso una sola), aunque otras entidades podrán participar como subcontratadas.
- Serán convocados para temáticas amplias en los distintos retos sociales y tecnologías LEIT.

Fases del Instrumento PyME



¿Que depara el WP RETO 1 en 2017?

Topic: SC1-HCO-17-2017: Support for large scale uptake of Digital Innovation for Active and Healthy Ageing **Forthcoming**
Publication date: 14 October 2015

Types of action: CSA Coordination and support action
DeadlineModel: single-stage
Opening date: 20 September 2016 **Deadline:** 31 January 2017 17:00:00
Time Zone : (Brussels time)

Topic: SC1-PM-15-2017: Personalised coaching for well-being and care of people as they age **Forthcoming**
Publication date: 14 October 2015

Types of action: RIA Research and Innovation action
DeadlineModel: single-stage
Opening date: 20 September 2016 **Deadline:** 31 January 2017 17:00:00
Time Zone : (Brussels time)

Topic: SC1-PM-16-2017: In-silico trials for developing and assessing biomedical products **Forthcoming**
Publication date: 14 October 2015

Types of action: RIA Research and Innovation action
DeadlineModel: single-stage
Opening date: 08 November 2016 **Deadline:** 14 March 2017 17:00:00
Time Zone : (Brussels time)

Topic: SC1-PM-17-2017: Personalised computer models and in-silico systems for well-being **Forthcoming**
Publication date: 14 October 2015

Types of action: RIA Research and Innovation action
DeadlineModel: single-stage
Opening date: 08 November 2016 **Deadline:** 14 March 2017 17:00:00
Time Zone : (Brussels time)

Topic: SC1-PM-19-2017: PPI for uptake of standards for the exchange of digitalised healthcare records **Forthcoming**
Publication date: 14 October 2015

Types of action: PPI Public Procurement of Innovative solutions
DeadlineModel: single-stage
Opening date: 08 November 2016 **Deadline:** 14 March 2017 17:00:00
Time Zone : (Brussels time)

Participant Portal

European Commission

RESEARCH & INNOVATION

Participant Portal

European Commission > Research & Innovation > Participant Portal > Home

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On this site you can find and secure **funding** for research & innovation projects under the following EU programmes:

- **2014-2020** Horizon 2020 - research and innovation framework programme
- **2007-2013** 7th research framework programme (FP7) and Competitiveness & Innovation Programme (CIP)

Non-registered users

- search for funding
- read the funding guide & download the legal documents
- check if an organisation is already registered
- contact our support services or check our FAQs

Registered users

- submit your proposal
- sign the grant
- manage your project throughout its lifecycle

WHAT'S NEW? FUNDING OPPORTUNITIES HOW TO PARTICIPATE WORK AS AN EXPERT MY PERSONAL AREA INFORMATION AND SUPPORT

Información actualizada de las convocatorias, con presupuestos, fechas, etc.

Información útil sobre cómo participar, guías, etc.

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

Fuera del Reto Social 1...

Societal Challenge 4
“Secure Societies”



Societal Challenge 6
“Inclusive, innovative and
reflective societies”



eVIA



Cross-Cutting Activities
“Internet Of Things”



Leadership in Enabling and
Industrial Technologies
“ICT”

Robótica
Big Data
Cloud
Computing

Externacionalizaciones de H2020

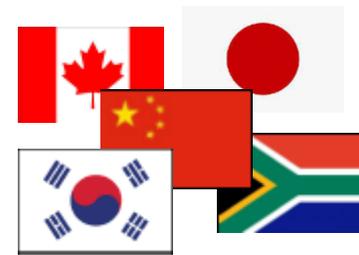


 innovative medicines initiative IMI (2)	JTI / PPP
 EDCTP (2)  AAL  EMPIR	P2P
 JPND  JPI MYBL  JPI AMR  JPI HDHL	JPI
 EIP AHA	EIP
 European Institute of Innovation & Technology KIC HL & AA	KIC
 Human Brain Project FF HBP	FET Flagship

Fuera de H2020...

Jornada-Taller

“Colaboración empresarial
y oportunidades de I+D+i en TIC Salud”



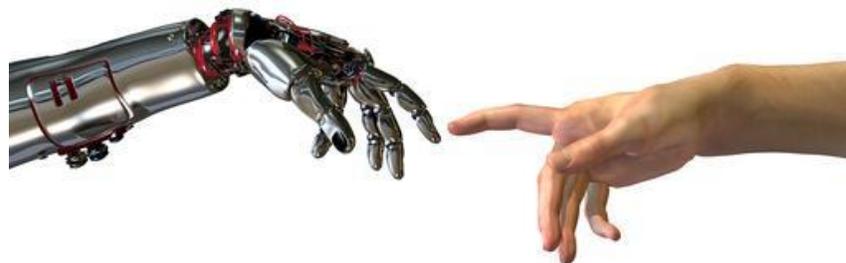
4 Diciembre 2015. Mesa Interregional: SALUD e I+D+i

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próximo 26 de septiembre



PREMIO
INNOVA *e*VIA



Patrocina:



Colaboran:



Clarke, Modet & C^o
ESPAÑA

<http://ametic.es/es/iii-edicion-premio-innova-evin-2016>

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- **Acude a los eventos que organizamos**
- **¿Tienes una idea? Nos interesa conocerla.**

Envía tus dudas a la
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