

CONAMA 2014

“H2020: GENERAR CIENCIA E INNOVACIÓN EXCELENTE PARA EUROPA”

MADRID, 26 DE NOVIEMBRE DE 2014

**ACCIÓN POR EL CLIMA,
MEDIO AMBIENTE,
EFICIENCIA DE RECURSOS
Y MATERIAS PRIMAS**

**RETO SOCIAL 5,
H2020**

Lydia González Fernández
Punto Nacional de Contacto
Reto Social 5 - H2020
CDTI

HORIZONTE 2020

H2020-Reto Social 5

- **Objetivos**
- **Programa de Trabajo 2014-2015**
- **Algunos detalles del Programa de Trabajo**

Y ahora mismo.....

Apoyo a la participación

Conclusiones

CDTI es....

Centro para el Desarrollo Tecnológico Industrial (www.cdti.es)

- Creado en 1977
- Entidad pública empresarial
- Ministerio de Economía y Competitividad (a través de la SEIDI)
- Principales líneas de actuación:

Evaluar + financiar proyectos de I+D desarrollados por empresas españolas

Servicios de soporte para desarrollar proyectos de I+D+I / explotación comercial de productos tecnológicos fuera de España

Promover transferencia de tecnología y cooperación público-privada en I+d+i

Soporte a la generación + desarrollo de nuevas empresas de base tecnológica

Representar, gestionar y promover la participación de entidades españolas en programas de cooperación tecnológica internacional (p.e. Horizonte 2020)

Gestionar y apoyar la obtención de contratos industriales de alto contenido tecnológico por parte de empresas españolas

CDTI, ámbitos de actuación

Financiación de proyectos de I+D+i

- Evaluación y financiación
- Emisión de informes motivados para deducción fiscal

Apoyo a la creación y consolidación de empresas de base tecnológica

- NEOTEC (**En Revisión**)
- NEOTEC C-R
- INNVIERTE

Gestión de programas internacionales

- Cooperación tecnológica (**Programa Marco de la UE**, Eureka, Eurostars, Iberoeka y Bilaterales)
- Apoyo a la transferencia de tecnología al exterior (Red Exterior CDTI).

Aeronáutica, Espacio y Retornos Tecnológicos

- I+D+i aeroespacial
- Suministros tecnológicos (CERN/ESRF, Hispasat /Eumetsat/Spainsat).

HORIZONTE 2020

H2020-Reto Social 5

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Estrategia Europa 2020

Transformar la UE en una **economía inteligente, sostenible e inclusiva**, para alcanzar altos niveles de empleo, productividad y cohesión social.

- Smart → more effective investments in education, research and innovation;
- Sustainable → a decisive move towards a low-carbon economy;
- Inclusive → strong emphasis on job creation and poverty reduction

5 objetivos →

1. **Employment.-**

- 75% of the 20-64 year-olds to be employed

2. **R&D.-**

- 3% of the EU's GDP to be invested in R&D

3. **Climate change and energy sustainability.-**

- greenhouse gas emissions 20% (or even 30%, if the conditions are right) lower than 1990
- 20% of energy from renewables
- 20% increase in energy efficiency

4. **Education**

- Reducing the rates of early school leaving below 10%
- at least 40% of 30-34-year-olds completing third level education

5. **Fighting poverty and social exclusion**

- at least 20 million fewer people in or at risk of poverty and social exclusion



Estrategia Europa 2020

Transformar la UE en una **economía inteligente, sostenible e inclusiva**, para alcanzar altos niveles de empleo, productividad y cohesión social.

- **Creación de empleo**

2030 Framework for CLIMATE and ENERGY policies →

- Reducing greenhouse gas emissions by 40%
- Increasing the share of renewable energy to at least 27%
- Increasing energy efficiency by 30%

2. **Research and Innovation**

- 3% of the EU's GDP to be invested in research and innovation

3. **Climate change and energy sustainability.-**

- greenhouse gas emissions 20% (or even 30%, if the conditions are right) lower than 1990
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¿Qué es Horizonte 2020?

El Programa Marco para la Investigación y la Innovación (2014-2020)



HORIZON 2020



<http://ec.europa.eu/programmes/horizon2020/en>



Horizonte 2020 - Contexto

- Programa para la financiación de la **Investigación y la Innovación (2014-2020)**.
- Parte fundamental de **Europa 2020**, la **Unión por la Innovación** y el **Espacio Europeo de Investigación (ERA)**:
 - ✓ Respuesta a la crisis económica como **inversión en empleo y crecimiento futuros**.
 - ✓ Abordando las **preocupaciones de la sociedad** sobre salud, seguridad, energía, medioambiente.
 - ✓ Reforzar la posición mundial de la **UE en investigación, tecnología e innovación**.
 - ✓ Construyendo una **economía basada en el conocimiento y la innovación**.

H2020: Objetivos y Estructura



Ciencia excelente

≈ 32% → 24.441

1. El Consejo Europeo de Investigación (CEI)	13.095
2. Las Tecnología Futuras y Emergentes (FET)	2.696
3. Las acciones Marie Sklodowska Curie	6.162
4. Las infraestructuras de investigación	2.488

Liderazgo Industrial

≈ 22% → 17.016

1. Liderazgo en tecnologías facilitadoras e industriales	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	2.842
3. Innovación en las PYME	616

Retos sociales

≈ 38% → 29.679

1. Salud, cambio demográfico y bienestar	7.472
2. Seguridad alimentaria, agricultura y silvicultura sostenibles, investigación marina, marítima y fluvial 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 recursos y materias primas	3.081
6. Sociedades inclusivas, innovadoras y reflexivas	1.309
7. Sociedades seguras	1.695



Horizon 2020 – «Cross-cutting issues»

- International Cooperation
- Social and economic science and humanities
- Climate change and sustainable development
- Innovation and close to market actions
- Cross-disciplinary and cross-sectoral research and innovation
- Fostering the functioning and achievement of the ERA and of the Innovation Union
- Responsible research and innovation including gender
- SME involvement in research and innovation and the broader private sector participation, (including the ***SME instrument***)

Horizon 2020 – «Cross-cutting issues»

- International Cooperation
- Social and economic science and humanities
- Climate change and sustainable development

- At least, **60% of overall Horizon 2020 budget** should be related to **sustainable development**
- **35% to climate-related expenditure**

- SME involvement in research and innovation and the broader private sector participation, (including the ***SME instrument***)

Instrumentos ("Types of Action")

Research & Innovation Actions

100%

Innovation Actions

70%*

* Except for "non-profit" organizations → 100%

Coordination & Support Actions

100%

ERA-Net CoFund

33%

PCP & PPI

70-20%

SME Instrument

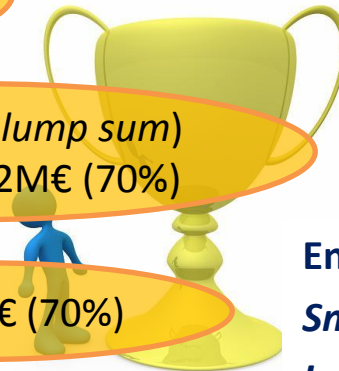
Fase I: 50 k€ (*lump sum*)
Fase II: 0,5 – 2M€ (70%)

Fast Track to Innovation (2015)

Max.: 3M€ (70%)

Prizes

0,5M€



En general:

Small contribution: 2 – 4 M€

Large contribution: 5 – 8 M€

HORIZONTE 2020

H2020-Reto Social 5

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Recordamos...

Horizonte 2020



Retos Sociales



Acción por el Clima,
Medio Ambiente,
Eficiencia de Recursos
y Materias Primas

H2020 - Reto Social 5

Acción por el clima, medio ambiente, eficiencia de los recursos y materias primas

3.081 M€

4,00% de H2020

OBJETIVOS →

- lograr una economía más eficaz y eficiente en el uso de los recursos (incluyendo el agua);
- el aumento de la resiliencia ante los efectos del cambio climático;
- el abastecimiento sostenible de materias primas, para afrontar las necesidades de una población global creciente de forma compatible con la sostenibilidad de los recursos naturales del planeta.



“We need to decouple economic growth from resource use. Part of answer: helping build a green economy, a circular economy in sync with the natural environment”.

H2020 – Reto Social 5 → Líneas de Actividad

5.1 Lucha contra el cambio climático y adaptación al mismo



5.2 Protección del medio ambiente, y gestión sostenible de los recursos naturales, del agua, de la biodiversidad y de los ecosistemas



5.3 Garantía de un abastecimiento sostenible de materias primas no agrícolas y no energéticas

Raw Materials
Alternate
Recycle
Extract

5.4 Posibilitar la transición hacia una economía y una sociedad verdes a través de la ecoinnovación



5.5 Desarrollo de sistemas completos y duraderos de observación e información sobre el medio ambiente mundial



5.6 Patrimonio cultural



H2020 – Reto 5 →

5.1 Lucha contra el cambio climático y adaptación al mismo

Objetivo.-

Desarrollar y evaluar medidas y estrategias de mitigación y adaptación innovadoras, rentables y sostenibles, centradas en el CO₂, aerosoles y otros gases de efecto invernadero (distintos de CO₂) y den prioridad a las soluciones ecológicas tecnológicas y no tecnológicas mediante la generación de datos que permitan una actuación informada, temprana y eficaz y la integración en redes de las competencias necesarias.



Líneas:

- Mejorar la comprensión del cambio climático y la elaboración de proyecciones climáticas fiables.
- Evaluar los impactos y puntos vulnerables y elaborar medidas innovadoras y rentables de adaptación y prevención de riesgos y de gestión.
- Apoyar las políticas de atenuación, incluidos estudios centrados en las repercusiones de otras políticas sectoriales

H2020 – Reto 5 →

5.2 Protección del medio ambiente, y gestión sostenible de los recursos naturales, del agua, de la biodiversidad y de los ecosistemas.

Objetivo.-

Proporcionar conocimientos e instrumentos que contribuyan a una gestión y protección de los recursos naturales que logre un equilibrio sostenible entre la escasez de recursos y las necesidades actuales y futuras de la sociedad y la economía.



Líneas.-

- Profundizar en nuestra comprensión de la biodiversidad y del funcionamiento de los ecosistemas, de cómo interactúan con los sistemas sociales y el papel que desempeñan en el sostenimiento de la economía y el bienestar humano.
- Impulsar planteamientos integrados para abordar los retos relacionados con el agua y la transición hacia una gestión y uso sostenibles de los recursos y servicios hídricos.
- Proporcionar conocimientos y herramientas que propicien una toma de decisiones eficaz y un compromiso público.

H2020 – Reto 5 →

5.3 Garantía de un abastecimiento sostenible de materias primas no agrícolas y no energéticas

Objetivo.-

Mejorar la base de conocimientos en torno a las materias primas y desarrollar soluciones innovadoras que contribuyan a crear unos procesos de exploración, extracción, transformación, reutilización, reciclaje y recuperación de materias primas rentables y respetuosos con el medio ambiente, y a sustituir dichas materias por alternativas atractivas a nivel económico y sostenibles desde el punto de vista del medio ambiente, y cuyo impacto ambiental sea menor.

Líneas.-

- Mejorar la base de conocimiento sobre la disponibilidad de materias primas.
- Promover el suministro y uso sostenibles de las materias primas, incluidos los recursos minerales, terrestres y marinos, que abarque la exploración, la extracción, la transformación, la reutilización, el reciclaje y la recuperación.
- Buscar alternativas a las materias primas esenciales.
- Mejorar la concienciación social y las competencias en relación con las materias primas.

Raw Materials
Alternate
Recycle
Extract

H2020 – Reto 5 →

5.4 Posibilitar la transición hacia una economía y una sociedad verdes a través de la ecoinnovación

Objetivo.-

Fomentar todas las formas de “ecoinnovación” que permitan la transición hacia una economía verde.



Líneas.-

- Reforzar las tecnologías, los procesos, los servicios y los productos ecoinnovadores, incluyendo la exploración de los modos de reducir las cantidades de materias primas en la producción y el consumo, superar las barreras en esta materia y potenciar su absorción por el mercado.
- Apoyar las políticas innovadoras y los cambios sociales.
- Medir y evaluar el progreso hacia una economía verde.
- Fomentar la eficiencia en el uso de los recursos por medio de sistemas digitales.

H2020 – Reto 5 →

5.5 Desarrollo de sistemas completos y duraderos de observación e información sobre el medio ambiente mundial

Objetivo.-

Desarrollo de nuevos sistemas de observación e información terrestre. Estos sistemas se utilizarán para observar, evaluar y predecir la condición, el estado y las tendencias del clima, los recursos naturales, incluidas las materias primas, los ecosistemas terrestres y marinos (desde las zonas costeras hasta las aguas profundas) y los servicios ecosistémicos, así como para valorar las políticas y opciones con baja emisión de carbono y de mitigación y adaptación al clima para todos los sectores de la economía.



Líneas.-

Las capacidades, tecnologías e infraestructuras de datos para la observación y vigilancia de la Tierra deben basarse en los avances de las TIC, las tecnologías espaciales y las capacidades en red, las observaciones por teledetección, novedosos sensores in situ, los servicios móviles, las redes de comunicaciones, las herramientas participativas que ofrecen los servicios en la Web y una infraestructura computacional y de elaboración de modelos mejorada, con el objetivo de proporcionar constantemente información, previsiones y proyecciones oportunas y precisas.

H2020 – Reto 5 →

5.6 Patrimonio Cultural

Objetivo.-

Brindar conocimientos y soluciones innovadoras, por medio de estrategias, metodologías, tecnologías, productos y servicios de adaptación y mitigación, con miras a la conservación y gestión del patrimonio cultural tangible de Europa expuesto a riesgos con motivo del cambio climático.



Líneas.-

- Determinación de los niveles de capacidad de recuperación por medio de observaciones, seguimiento y elaboración de modelos.
- Consecución de una mejor comprensión del modo en que las comunidades perciben el cambio climático y los riesgos sísmicos y volcánicos, y reaccionan ante ellos.

VII PM – Medio Ambiente →

H2020 – Reto Social 5

What's new???

- Foco en la transformación hacia una **economía y sociedad «verdes»**.
- Más **eco-innovación**, incluyendo la **innovación social**.
- Más **actividades socioeconómicas** y con proyección de futuro.
- Inclusión de **«materias primas»**.
- **Aplicaciones TIC a «medio ambiente»**.
- **«Medio Ambiente y Salud»** incluido en el Reto de Salud (SC1).

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H2020-Reto Social 5

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H2020 – Reto Social 5

Programa de Trabajo → Fuentes + Inputs



26/11/2014

H2020 - Reto Social 5.-

Acción por el Clima, Medio Ambiente, Eficiencia de Recursos y Materias Primas

- Se **relacionan con/influyen en** este reto:
 - EIP Agua y EIP Materias Primas
 - JPIs: Water Challenges for a Changing World, Cultural Heritage, Climate, Oceans
 - EIT: Climate – KIC; *KIC – Materias Primas*
 - Eranet's: ECOINNOVERA, ERAMIN, Cultural Heritage, Seas-ERA
 - PPPs “Sustainable Process Industries”(SPIRE) y “Bio-Based Industries” (BBI)
- Y...
 - Directivas Europeas, Políticas Europeas, Planes, etc
 - Acciones/Paneles Internacionales, etc.

Reto Social 5 ↔ JPIs



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www.waterjpi.eu



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About us | JPI Themes | Joint Actions | News & Events | Publications | Links

JPI Climate is a collaboration between 14 European countries to coordinate jointly their climate research and fund new transnational research initiatives. JPI Climate connects scientific disciplines, enables cross-border research and increases the science-practice interaction.

JPI Climate contributes to the overall EU objective of developing a European Research Area and is coordinated with the EU's Horizon2020 programme in support of excellent science, industrial leadership and the European response to one of the great societal challenges of our times - climate change.



www.jpi-climate.eu



RSS Feed



Castel del Monte Italy

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www.jpi-culturalheritage.eu



Search

Healthy and Productive Seas and Oceans

www.jpi-oceans.eu

26/11/2014



Qué es una JPI?

- **Iniciativas de programación conjunta** para integrar parcialmente planes nacionales.
- Los socios son las instituciones que **gestionan dichos programas**.
- De **geometría variable** de países.
- Lanzamiento de **convocatorias conjuntas** (fondos nacionales y financiación descentralizada).
- La CE podría cofinanciar con una ERANet (o Art. 187) los proyectos de esas convocatorias conjuntas.

Reto Social 5 ↔ EIPs

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ENVIRONMENT

European Commission > Environment > Water > EIP

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Home

Blueprint

River Basin Management

Flood Risk Management

Water Scarcity and Droughts

Drinking Water

Bathing Water

Water Pollution

Adaptation to Global Change

European Innovation Partnership on Water

EU Water Initiative

Water Eurobarometer

Sitemap

EIP Water

Boosting opportunities - Innovating water

What we do | Priorities | Get involved! | Action Groups

The EIP Water aims to

- speed up development of water innovation
- contribute to sustainable growth and employment
- stimulate uptake of water innovations by market and society

Read more!

Marketplace online!

The EIP Water's Marketplace - "matchmaking for water innovation" - has now gone live in its beta version. We invite you to visit the site, register your profile and look forward to receiving your feedback during the development phase until the end of October 2013!

Read more!

WISE
WATER INFORMATION SYSTEM FOR EUROPE

Your gateway to European water information.

European Innovation Partnerships aim to speed up innovations that contribute to solving societal challenges, enhance Europe's competitiveness and contribute to job creation and economic growth. EIPs help to pool expertise and resources by bringing together public and private actors at EU, national and regional level, combining supply and demand-side measures.

<http://ec.europa.eu/environment/water/innovationpartnership>

<https://ec.europa.eu/eip/raw-materials/en>



EIP ON RAW MATERIALS

European Commission > EIP on Raw Materials

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About the European Innovation Partnership (EIP) on Raw Materials

ECAS Login

The European Innovation Partnerships (EIPs) are a new approach to EU research and innovation. They focus on the societal benefits of R + I and a rapid modernisation of the associated sectors and markets.

European Innovation Partnerships (EIP) were launched under the European Commission's Innovation Union to accelerate the market take-up of innovations which address key challenges for Europe.

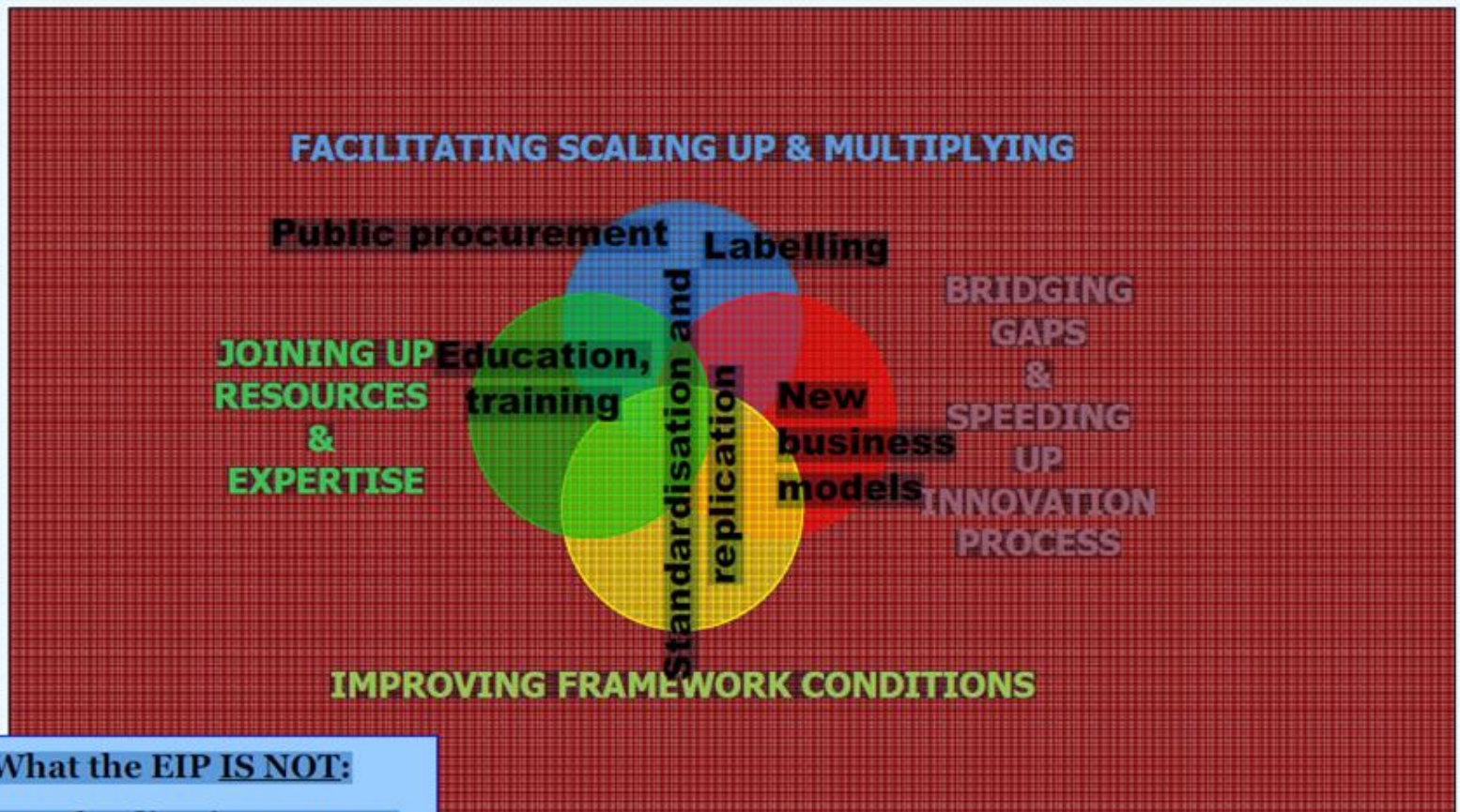
The ultimate aim of the EIP on Raw Materials is to help raise industry's contribution to the EU GDP to around 20% by 2020. It will also play an important role in meeting the objectives of the flagship European Commission initiatives 'Innovation Union' and 'Resource Efficient Europe'. It will do this by ensuring the sustainable supply of raw materials to the European economy whilst increasing benefits for society as a whole.



Raw Materials - The stuff that dreams are made of

Raw Materials - The stuff that dreams are made of

Other language versions: EN DE FR ES PL IT



What the EIP IS NOT:

- a new funding instrument
- a new R&D programme

The concept of **EIPs** was established by the Commission in 2010 as part of the Innovation Union flagship initiative with the **two-fold aim** of:

- Improving conditions and access to finance for research and innovation in Europe
- Ensuring that innovative ideas are turned into products and services that create growth and jobs.

PPP SPIRE



Sustainable Process Industry through
Resource and Energy Efficiency



www.spire2030.eu



SEARCH...



HOME > ABOUT US > SPIRE VISION > LIBRARY > CONTACT > MEMBERS' PORTAL >



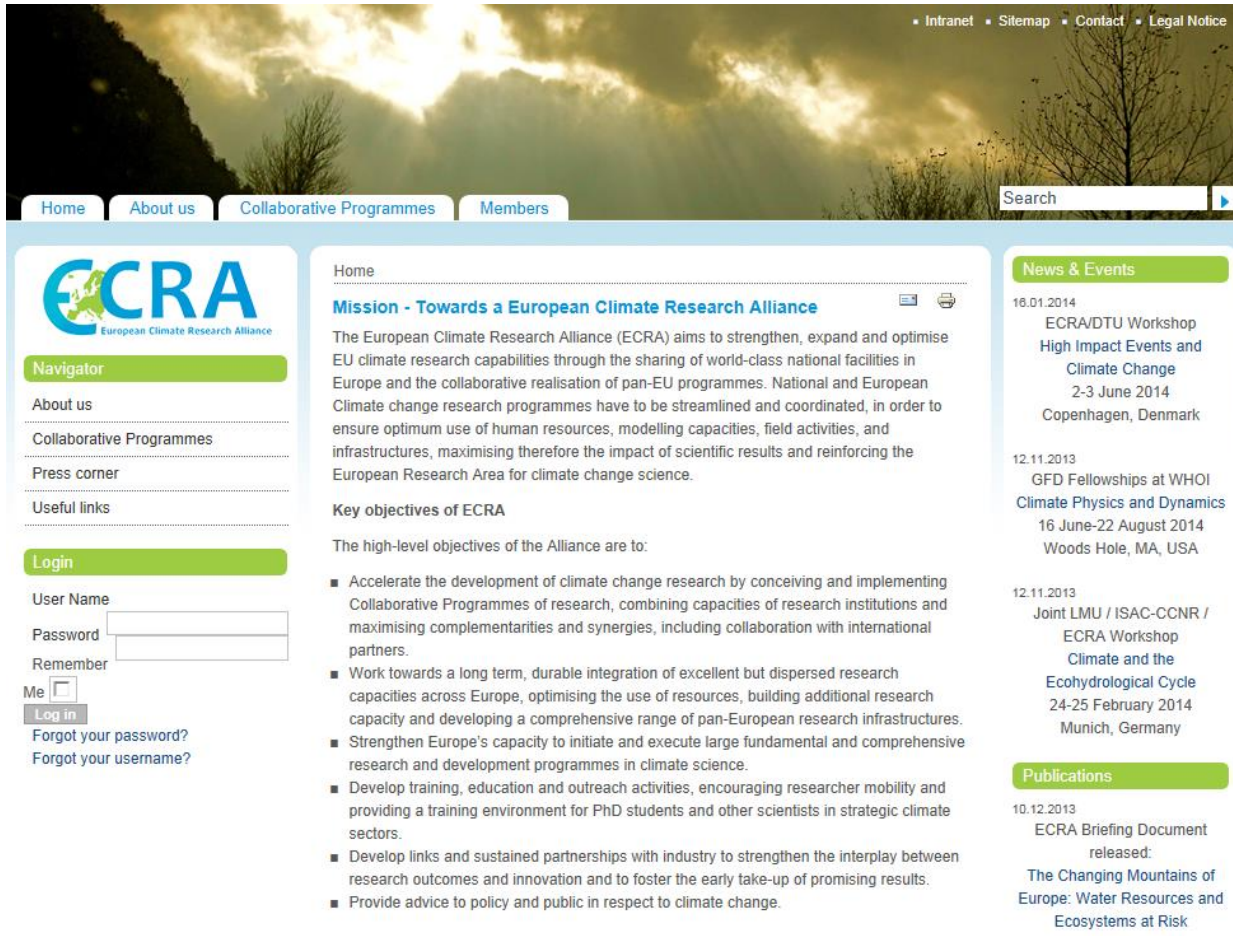
SPIRE is a contractual Public-Private Partnership
dedicated to innovation in resource and energy
efficiency enabled by the process industries
> Find out more



SPIRE research and innovation Roadmap
provides the pathway for the process industry
to decouple human well-being from resource
consumption and achieve increased
competitiveness in Europe



European Climate Research Alliance - ECRA



The screenshot shows the ECRA website homepage. At the top, there is a navigation bar with links for Home, About us, Collaborative Programmes, and Members. A search bar is located on the right. The main content area is divided into three columns. The left column features the ECRA logo and a 'Navigator' menu with links to About us, Collaborative Programmes, Press corner, and Useful links. Below this is a 'Login' section with fields for User Name and Password, a 'Remember Me' checkbox, and a 'Log in' button. The middle column contains the 'Home' section with the mission statement and key objectives of ECRA. The right column features 'News & Events' and 'Publications' sections. The 'News & Events' section lists three events: ECRA/DTU Workshop High Impact Events and Climate Change (2-3 June 2014, Copenhagen, Denmark), GFD Fellowships at WHOI Climate Physics and Dynamics (16 June-22 August 2014, Woods Hole, MA, USA), and Joint LMU / ISAC-CCNR / ECRA Workshop Climate and the Ecohydrological Cycle (24-25 February 2014, Munich, Germany). The 'Publications' section lists one publication: ECRA Briefing Document released: The Changing Mountains of Europe: Water Resources and Ecosystems at Risk (10.12.2013).

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ECRA

European Climate Research Alliance

Navigator

- About us
- Collaborative Programmes
- Press corner
- Useful links

Login

User Name

Password

Remember Me

[Forgot your password?](#)

[Forgot your username?](#)

Home

Mission - Towards a European Climate Research Alliance

The European Climate Research Alliance (ECRA) aims to strengthen, expand and optimise EU climate research capabilities through the sharing of world-class national facilities in Europe and the collaborative realisation of pan-EU programmes. National and European Climate change research programmes have to be streamlined and coordinated, in order to ensure optimum use of human resources, modelling capacities, field activities, and infrastructures, maximising therefore the impact of scientific results and reinforcing the European Research Area for climate change science.

Key objectives of ECRA

The high-level objectives of the Alliance are to:

- Accelerate the development of climate change research by conceiving and implementing Collaborative Programmes of research, combining capacities of research institutions and maximising complementarities and synergies, including collaboration with international partners.
- Work towards a long term, durable integration of excellent but dispersed research capacities across Europe, optimising the use of resources, building additional research capacity and developing a comprehensive range of pan-European research infrastructures.
- Strengthen Europe's capacity to initiate and execute large fundamental and comprehensive research and development programmes in climate science.
- Develop training, education and outreach activities, encouraging researcher mobility and providing a training environment for PhD students and other scientists in strategic climate sectors.
- Develop links and sustained partnerships with industry to strengthen the interplay between research outcomes and innovation and to foster the early take-up of promising results.
- Provide advice to policy and public in respect to climate change.

News & Events

16.01.2014
ECRA/DTU Workshop
High Impact Events and
Climate Change
2-3 June 2014
Copenhagen, Denmark

12.11.2013
GFD Fellowships at WHOI
Climate Physics and Dynamics
16 June-22 August 2014
Woods Hole, MA, USA

12.11.2013
Joint LMU / ISAC-CCNR /
ECRA Workshop
Climate and the
Ecohydrological Cycle
24-25 February 2014
Munich, Germany

Publications

10.12.2013
ECRA Briefing Document
released:
The Changing Mountains of
Europe: Water Resources and
Ecosystems at Risk

www.ecra-climate.eu

26/11/2014

Environment Action Programme to 2020

7th EAP priority objectives



Eco-Innovation Action Plan

http://ec.europa.eu/environment/ecoap/index_en.htm

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ENVIRONMENT
Eco-innovation Action Plan

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ABOUT THE ACTION PLAN | ABOUT ECO-INNOVATION | NEWS AND EVENTS

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EcoAP
for a sustainable future
Putting eco-innovation at the heart of European policies.

- The 7 actions of EcoAP
- EcoAP in the EU countries

Eco-innovation in the spotlight

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Upcoming events

31/03/2014
RegioStars Awards Ceremony, Brussels, Belgium

- **Action 1. Environmental policy and regulation**
- **Action 2. Demonstration projects**
- **Action 3. Standards**
- **Action 4. Funding and SME support**
- **Action 5. International cooperation**
- **Action 6. Skills and knowledge**
- **Action 7. European Innovation Partnerships**

Actions to help build stronger and more stable market demand for eco-innovation

26/11/2014

H2020 – Reto Social 5

Líneas de Actividad

5.1 Lucha contra el cambio climático y adaptación al mismo

5.2 Gestión sostenible de los recursos naturales y los ecosistemas

5.3 Garantía de un abastecimiento sostenible de materias primas no agrícolas y no energéticas

5.4 Ecoinnovación como camino hacia una economía «verde»

5.5 Desarrollo de sistemas completos y duraderos de observación e información sobre el medio ambiente mundial

5.6 Patrimonio cultural



Programa de Trabajo 2014-2015

H2020 – Reto Social 5

Líneas de Actividad

5.1 Lucha contra el cambio climático y adaptación al mismo

5.2 Gestión sostenible de los recursos naturales y los ecosistemas

5.3 Garantía de un abastecimiento sostenible de materias primas no agrícolas y no energéticas

5.4 Ecoinnovación como camino hacia una economía «verde»

5.5 Desarrollo de sistemas completos y duraderos de observación e información sobre el medio ambiente mundial

5.6 Patrimonio cultural



Call Water



Call Waste



General Call: SC



Contribuciones a otros Retos Sociales

Reto Social 5 → Programa de Trabajo 2014– 2015

- **Call – Waste: A Resource to Recycle, Reuse and Recover Raw Materials**
- **Call – Water Innovation: Boosting its value for Europe**
- **Call - Growing a Low Carbon, Resource Efficient Economy with a Sustainable Supply of Raw Materials.**
 - *Fighting And Adapting To Climate Change*
 - *Protecting The Environment, Sustainably Managing Natural Resources, Water, Biodiversity And Ecosystems*
 - *Ensuring The Sustainable Supply Of Non-energy And Non-agricultural Raw Materials*
 - *Enabling The Transition Towards A Green Economy And Society Through Eco-innovation*
 - *Developing Comprehensive And Sustained Global Environmental Observation And Information Systems*

Contribución a otras Focus Areas:

Blue Growth (SC2), Energy Efficiency (SC3), Disaster Resilience (SC7)

Reto Social 5 – WP 2014-2015...algunos DETALLES

- *This Work Programme covers 2014 and 2015,*

**Programa de Trabajo* Revisado
en Portal del Participante (23/07/2014)**

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/main/h2020-wp1415-climate_en.pdf

HORIZONTE 2020

H2020-Reto Social 5

- **Objetivos**
- **Programa de Trabajo 2014-2015**
- **Algunos detalles del Programa de Trabajo**

Y ahora mismo.....

Apoyo a la participación

Conclusiones

TÍTULO

SC5-4-2015: Improving the air quality and reducing the carbon footprint of European cities

RETO ESPECÍFICO

Specific challenge: The majority of the European population lives in urban environments where citizens are frequently exposed to levels of air pollutants exceeding the limit

Establece el contexto, el problema que se abordará, por qué es necesaria la intervención.

important role. Air pollution and climate change are strongly connected and there is therefore a need to consider both environmental and climate considerations when designing emission abatement strategies. Integrated approaches are needed to find long-term, sustainable solutions in the EU.

ALCANCE

Scope: Development of technological options and strategies to fight against air pollution in urban environments and climate change ensuring the involvement of the main pollution-generation sectors. Proposals should include the development and application of tools in support of integrated air quality and climate change governance in EU Member States, with the aim of designing and implementing adequate abatement strategies and practices. The specific circumstances of the different regions and cities of

Delimita el problema, especifica los límites del potencial de la acción, pero sin describir enfoques específicos.

areas. Furthermore, awareness-raising actions and policy support activities should be included. Proposals should include the participation of SMEs, as far as possible.

The Commission considers that proposals requesting a contribution from the EU of between EUR 6 and 8 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

IMPACTO ESPERADO

Expected impact: Reduction of the negative effects on health and climate together with

Describe los elementos claves de lo que se espera lograr, de los resultados, en relación con el problema específico.

green and low carbon economy. Improved air quality in EU cities in the medium- to long-term.

INSTRUMENTO

Type of action: Research and innovation actions

Reto Social 5 – WP 2014-2015...algunos DETALLES

Work Programme 2014-2015 (3 Calls)	(2014) 2015
CALL WASTE A resource to recycle, reuse and recover raw materials	(73) 58 M€
CALL WATER Boosting its value for Europe	(67) 96 M€
GENERAL CALL Growing a low carbon, resource efficient economy with a sustainable supply of raw materials	(166) 185 M€

Reto Social 5 – WP 2014-2015...algunos DETALLES

- Fecha **APERTURA** “calls” 2015 → 10/12/2014

AÑO		FECHA CIERRE One Stage o 1st Step (Two Stages)	FECHA CIERRE 2nd Step (Two Stages)
2014	One Stage	Cerradas	
2014	Two Stages		
2015	One Stage	21/04/2015	
2015	Two Stages	21/04/2015	08/09/2015

- Fechas **SC5-20** (SME Instrument) → 01/03/2014 (Ph 1 + Ph 2)

		Phase 1	Phase 2	Phase 1	Phase 2
2014/2015	SME Instrument (Open call with «cut-off» dates)	15/10/2014	09/10/2014	18/03/2015	18/03/2015
		24/01/2015	17/12/2014	17/06/2015	17/06/2015
		17/12/2014		17/09/2015	17/09/2015
				16/12/2015	16/12/2015

Reto Social 5 – WP 2014-2015...algunos DETALLES

TOPICS				
TYPE of Actions	2014		2015	
	One Stage	Two Stage	One Stage	Two Stage
Innovation Actions		2	1	2
Research and Innovation Actions	3	6	3	5
Coordinating and Support Actions	11		7	
ERANET Cofund	2		3	
SME Instrument	1			

- RIA e IA → “muchos” topics en 2 fases
- RIAs >>>>> IAs
- CSAs, redes y estrategia.

Programa de Trabajo 2014-15...algunos DETALLES

IMPORTANTE.....

Mirar para encontrar **más/otras oportunidades:**

- **FOCUS AREA: BLOW GROWTH (SC_2)**
- **FOCUS AREA: DISASTER-RESILIENCE (SC_7)**
- **Societal Challenge 6.....**
- **Fast Track to Innovation**

Programa de Trabajo 2014-15...algunos DETALLES

De las PYMEs

- En H2020 se quiere destinar a las **PYMES** una **Contribución EU del 20% del presupuesto**.
- **Además del instrumento PYME**, su participación aparece como recomendada y/o imprescindible en muchos topics.
- **Topics relevantes para las PYMEs:**
 - Topic con referencia explícita a la participación de PYMEs
 - Topics con enfoque de abajo-arriba (bottom-up approaches)
 - Topics con énfasis en las actividades de aplicación y demostración

Programa de Trabajo 2014-15...algunos DETALLES

Cooperación internacional

- Todos los topics están abiertos a la participación de “International Cooperation Partners Countries –ICPC”.
- Algunos topics identifican países y/o región de colaboración prioritaria.

¡IMPORTANTE!

No significa financiación automática a los terceros países

Programa de Trabajo 2014-15...algunos DETALLES

IMPORTANTE.....

En muchos “topics” se indica/espera que los proyectos “..... will participate in the Pilot on Open Research Data in Horizon 2020 in line with the Commission's Open Access to research data policy for facilitating access, re-use and preservation of research data.”

Reto Social 5 – WP 2014-2015...algunos DETALLES

Sinergias con otros fondos

“.....Within the projects funded, additional, **complementary or follow-up funding should be sought**, be it **private or public**, including from relevant regional/national schemes under the European Structural and Investment Funds (ESIF), in particular under the European Regional Development Fund (ERDF). To achieve this, projects could seek contact with ERDF managing authorities and with the authorities who developed the Research and Innovation Smart Specialisation Strategies (RIS3). The responsible regional/national authorities could then take an interest in the projects and their expected results. They could engage in the use and deployment of the novel solutions resulting from projects e...-cor
procurement or public procurement for innov... the p
could already indicate which interested reg... oth
been pre-identified for contact during the p...



<http://s3platform.jrc.ec.europa.eu/>

26/11/2014



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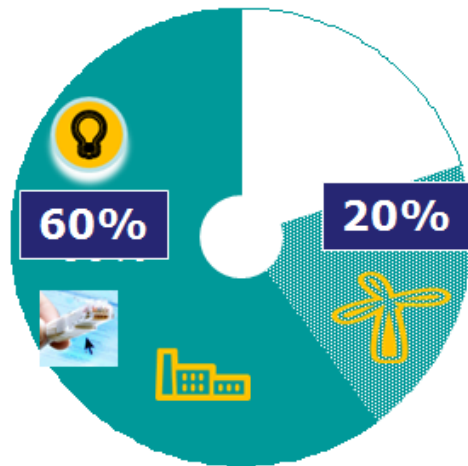
European Regional Development Fund



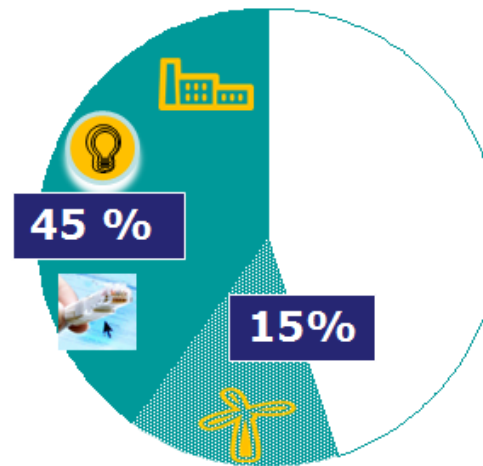
ERDF thematic concentration

- 💡 Research and Innovation
- 🖱️ ICT
- 🏢 SMEs competitiveness
- 🌿 Low-carbon economy (energy efficiency and renewable energy)

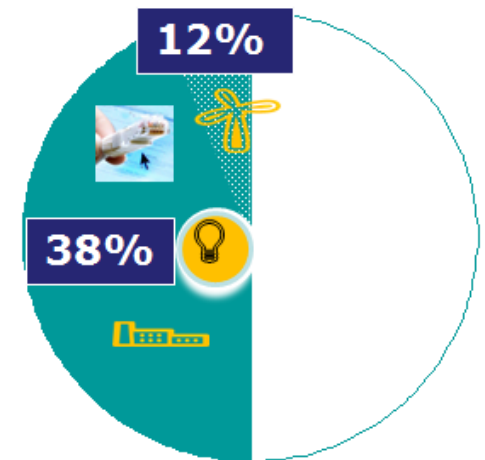
More developed regions



Transition regions



Less developed regions



HORIZONTE 2020

H2020-Reto Social 5

- **Objetivos**
- **Programa de Trabajo 2014-2015**
- **Algunos detalles del Programa de Trabajo**

Y ahora mismo.....

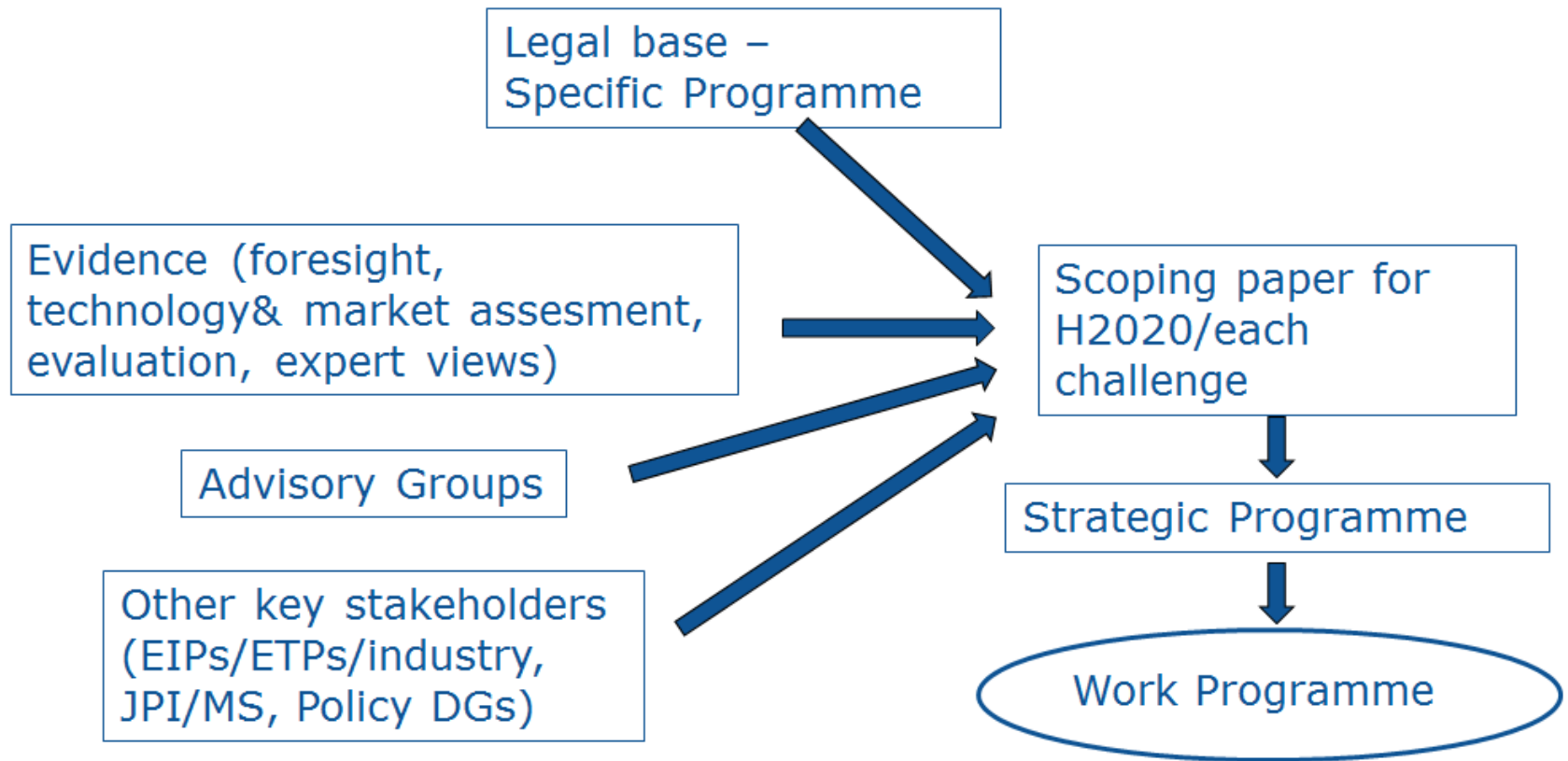
Apoyo a la participación

Conclusiones

H2020 – Programas de Trabajo

2014	2015	2016	2017	2018	2019	2020
Strategic Programme						
WP 2014-2015	Strategic Programme					
		WP 2 (+ 2018 info?)	Strategic Programme			
				WP 3 (+ 2020 info?)	WP 4	

Identification of future priorities



HORIZON 2020



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Advisory Group⁽¹⁾ and Public Consultation⁽²⁾

Priority Areas →

- Systemic Eco-innovation
- Climate Services
- Nature Based Solutions
- Sustainable Supply of Raw Materials

(1) <http://ec.europa.eu/transparency/regexpert/index.cfm?do=groupDetail.groupDetailDoc&id=14223&no=1>

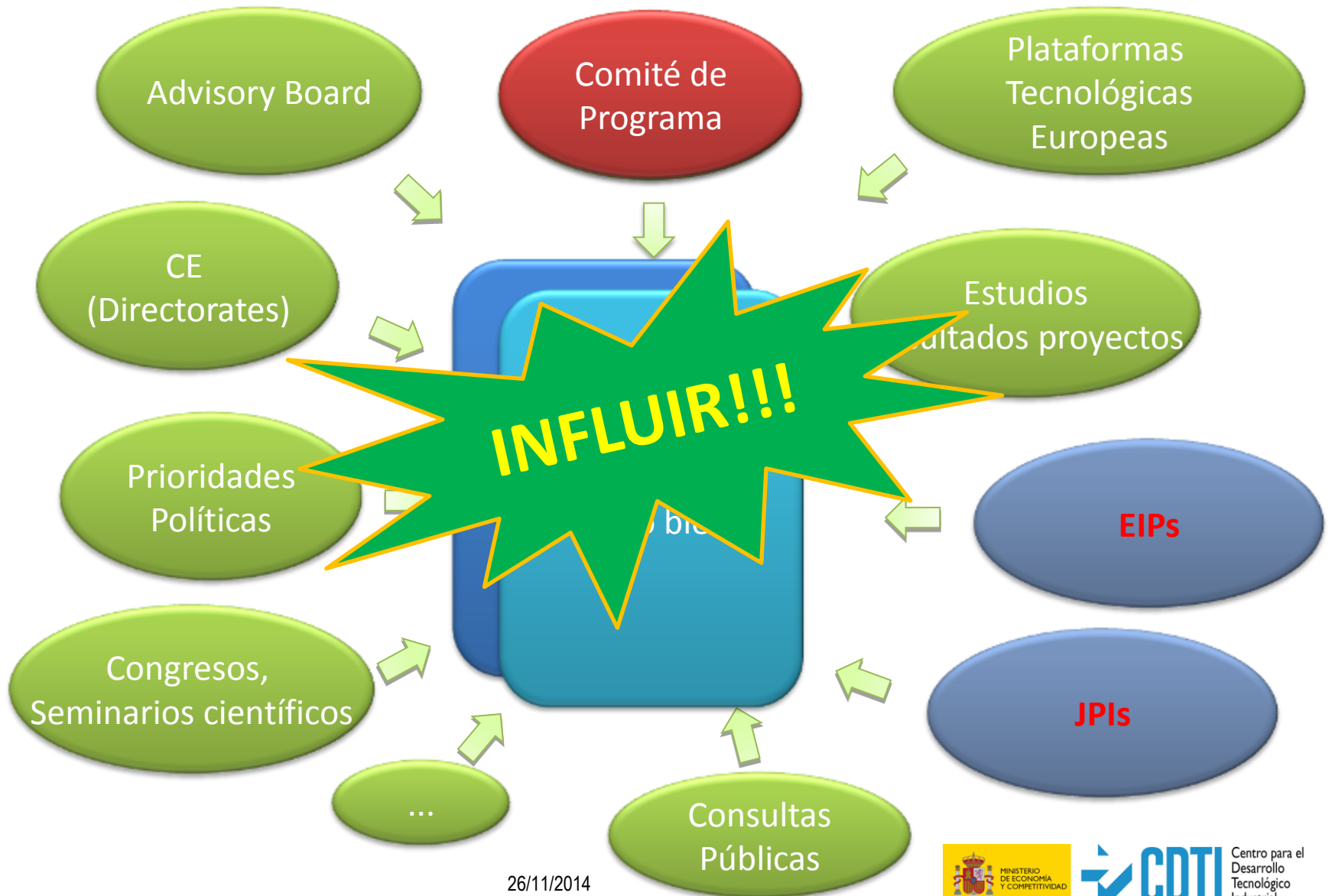
(2) <http://ec.europa.eu/programmes/horizon2020/en/news/results-stakeholder-consultation-horizon-2020-societal-challenge-5-climate-action-environment>

Reto Social 5 – Programa de Trabajo 2016-2017

Work Programme 2016-2017	Timing
Consultation on priorities and setting (strategic programming)	up to end 2014
Strategic PC configuration will set the scene for the overall approach including criteria for identifying priorities	up to mid 2014
Involvement of Advisory Groups and other key stakeholders (EIPs, JPIs, ETPs, etc)	2nd quarter 2014
Scoping papers for each Societal Challenge and Engagement with Programme Committees	2nd half 2014
Outline Strategic Programming 2016-2017	end 2014
Confirmation - new Commission	end 2014–start 2015
Work Programme 2016-2017 – Drafts	1st half 2015
Programme Committees opinion	mid 2015
Work programme adoptions	autumn 2015

H2020 – Reto Social 5

Preparación Programa de Trabajo 2016-2017



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HORIZONTE 2020

H2020-Reto Social 5

- **Objetivos**
- **Programa de Trabajo 2014-2015**
- **Algunos detalles del Programa de Trabajo**

Y ahora mismo.....

Apoyo a la participación

Conclusiones

Portal del participante

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

The screenshot shows the top navigation bar with the European Commission logo and the text 'RESEARCH & INNOVATION Participant Portal'. Below this is a breadcrumb trail: 'European Commission > Research & Innovation > Participant Portal > Home'. A secondary navigation bar contains links for 'HOME', 'FUNDING OPPORTUNITIES', 'HOW TO PARTICIPATE', 'EXPERTS', and 'SUPPORT'. On the right side of this bar are 'LOGIN' and 'REGISTER' buttons. The main content area features a banner for 'Horizon 2020 Funding Starting from 1/1/2014'. Below the banner, a text block states: 'On this site you can find and secure **funding** for research & innovation projects under the following EU programmes:'. This is followed by two bullet points: '• 2014-2020 Horizon 2020 - research and innovation framework programme' and '• 2007-2013 7th research framework programme (FP7) and Competitiveness & Innovation Programme (CIP)'. Two columns of user actions are listed: 'Non-registered users' (search for funding, read funding guide, check registration status, contact support) and 'Registered users' (submit proposal, sign grant, manage project). A red arrow points from the 'Registered users' section to the 'MY PERSONAL AREA' icon in the bottom navigation bar. The bottom navigation bar consists of six icons with labels: 'WHAT'S NEW?', 'FUNDING OPPORTUNITIES', 'HOW TO PARTICIPATE', 'WORK AS AN EXPERT', 'MY PERSONAL AREA', and 'INFORMATION AND SUPPORT'.

26/11/2014



RESEARCH & INNOVATION

Participant Portal

European Commission > Research & Innovation > Participant Portal > Reference Documents

- HOME
- FUNDING OPPORTUNITIES
- HOW TO PARTICIPATE
- EXPERTS
- SUPPORT

LOGIN REGISTER

Reference Documents

This page includes all the H2020 & FP7 reference documents starting with legal documents and the Commission work programmes for research and innovation up to model grant agreements and guides for specific actions and horizontal issues. The documents are grouped by categories. To access a document:

- Click on a folder
- Click on ARROW to have more information about the document and its available translations

2014-15

- 2014-15
- Calls - proposal templates and evaluation forms

Proposal templates

- Standard proposal template RIA, IA >
- Standard proposal template CSA >
- Standard proposal template PCP, PPI >
- Standard proposal template ERA-NET >
- Standard proposal template EJP >
- Standard proposal template SME-PHASE1 >
- Standard proposal template SME-PHASE2 >
- Standard proposal form PRIZES >
- MSCA standard proposal template MSCA-IF-EF/GF/RF >
- MSCA standard proposal template ITN-ETN/EID/EJD >
- MSCA standard proposal template RISE >
- MSCA standard proposal template COFUND-DP/FP >
- ERC standard proposal template STG >
- ERC standard proposal template COG >
- ERC standard proposal template ADG >
- ERC proposal template for PoC >

Evaluation forms

Plantillas «standard»

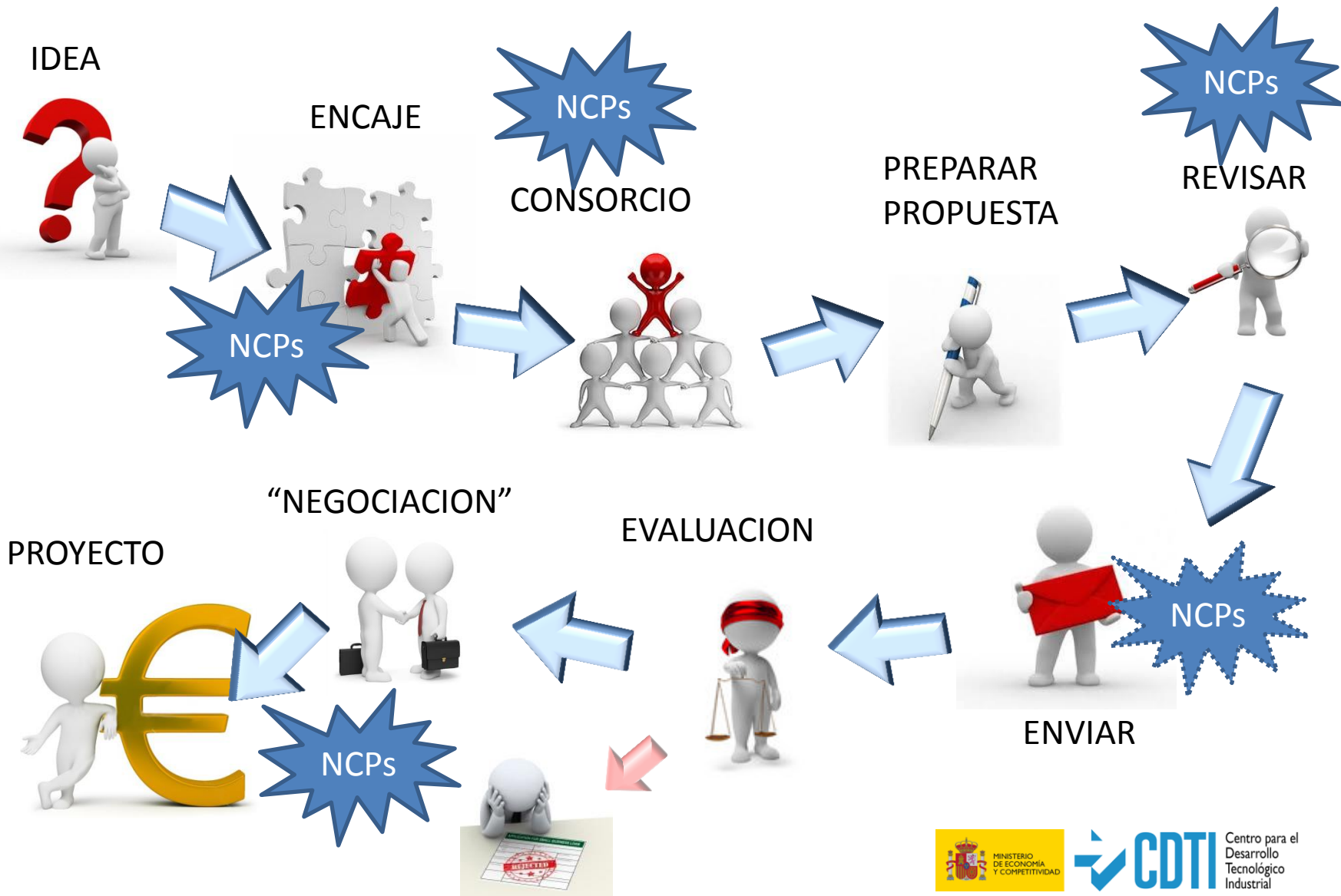
IMPORTANTE:

«calls» y/o topics concretos pueden especificar criterios adicionales.



Centro para el Desarrollo Tecnológico Industrial

Apoyo a la Participación



Puntos Nacionales de Contacto



www.eshorizonte2020.es

Horizonte 2020 - Reto Social 5, «Acción por el Clima, Medio Ambiente, Eficiencia de Recursos y Materias Primas»

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Tel.- +34 91 346 09 10

26/11/2014



Roles en la gestión de H2020

Reto Social 5



Apoyo a la Participación

CDTI

- **Medidas estructurales:** Ayudas indirectas a empresas y colectivos que incluyen pagos por resultados.
 - Oficinas de Proyectos (consultoras, universidades, etc.) cuya misión es introducir nuevas empresas en H2020
 - Ayudas directas a empresas para la preparación de propuestas comunitarias (APC+)
- **Medidas de acompañamiento** (programa de Especialización de Gestores en la oficina de CDTI en Bruselas)
- Análisis y apoyo estratégico (instituciones y CCAA)

MINECO-SEIDI

- **Resolución (BOE 11/12/2013):** Ayudas correspondientes a las acciones de dinamización de carácter internacional

CCAA

- Algunas medidas específicas en algunas CCAA



Más Información

- Horizon 2020 (<http://ec.europa.eu/programmes/horizon2020/>)
- esHorizonte2020 (www.eshorizonte2020.es)
- Research and Innovation - Environment (http://ec.europa.eu/research/environment/index_en.cfm)
- EC – Environment (http://ec.europa.eu/environment/index_en.htm)
- EC – Climate Action (<http://ec.europa.eu/clima/>)
- EC- Enterprise and Industry (http://ec.europa.eu/enterprise/policies/raw-materials/index_en.htm)
- EIP de Agua - Strategic Implementation Plan (SIP) (<http://www.eip-water.eu/about/basics>)
- JPI de Agua - Strategic Research and Innovation Agenda (SRIA) (<http://www.waterjpi.eu/>)
- EIP de Materias Primas – SIP (<https://ec.europa.eu/eip/raw-materials/en/content/about-sip>)
- Critical Raw Materials (http://ec.europa.eu/enterprise/policies/raw-materials/critical/index_en.htm)

...otros.

Otras iniciativas/referencias/directivas....

- [VOICES](#)
- [EU Resource Efficiency Roadmap](#)
- [Roadmap for moving to a low-carbon economy by 2050](#)
- [EIP on Agricultural productivity and Sustainability](#)
- [EIP- Smart Cities and Communities](#)
- [EU 2020 Biodiversity Strategy](#)
- [EU Strategy on Adaptation to Climate Change](#)
- [UNFCCC](#) (United Nations Framework Convention on Climate Change)
- [Industrial Emissions Directive](#)
- [EU Water Framework Directive](#)
- [Waste Framework Directive](#)
- [INSPIRE Directive](#)
- [Marine Strategy Framework Directive](#)
- [Strategic Forum for International Science and Technology Cooperation](#) (SFIC)
- [Economics of Ecosystems and Biodiversity](#)

Otras iniciativas/referencias/directivas....

- [NATURA 2000](#)
- [Copernicus](#) (Global Monitoring for Environment and Security)
- [Group of Earth Observation](#)
- [Global Earth Observation System of Systems](#)
- [ESA Climate Change Initiative](#)
- [Future Earth Programme](#)
- [UNEP, Global Partnership on Waste Management](#)
- [Rio+20](#)
- [Global Framework for Climate Services](#)
- [Millennium Ecosystem Assessment](#)
- [EU Environmental Technology Verification \(ETV\)](#)
- [Future & Emerging Technologies \(FET\)](#)
- [Flagship on Graphene](#)
- [Photonics PPP](#)
-

HORIZONTE 2020

H2020-Reto Social 5

- **Objetivos**
- **Programa de Trabajo 2014-2015**
- **Algunos detalles del Programa de Trabajo**

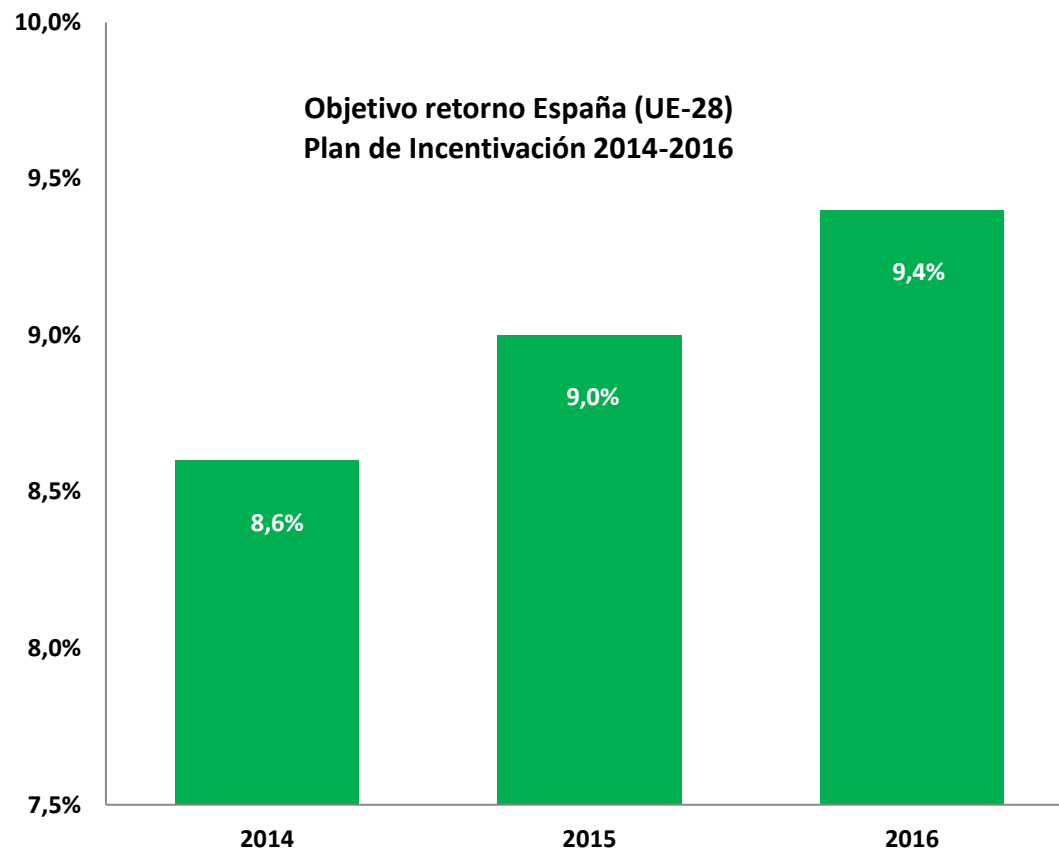
Y ahora mismo.....

Apoyo a la participación

Conclusiones

Conclusiones

En el VII PM se establecieron unos objetivos de participación española y se diseñó un plan de actuación dirigido a conseguirlos → en H2020 ...se continúa en dicha línea



26/11/2014

Conclusiones

En el VII PM se establecieron unos objetivos de participación española y se diseñó un plan de actuación dirigido a conseguirlos → en H2020 ...se continúa dicha línea

Se necesita la participación/contribución de TODOS los actores



26/11/2014

DISCLAIMER



In no circumstance the content of these slices can substitute the information provided in the official call documents and guidelines as available from the Participant Portal.

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

Gracias por su atención

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HORIZONTE 2020

H2020-Reto Social 5

- **Objetivos**
- **Programa de Trabajo 2014-2015**
- **Algunos detalles del Programa de Trabajo**

Y ahora mismo.....

Apoyo a la participación

Conclusiones

Anexos

ANEXO

- **Tipos de Acción = Instrumentos**

Tipos de Acción - Convocatorias ordinarias

Research and
Innovation Action

Innovation Action

Coordination and
Support Actions (CSA)

Pre-Commercial
Procurement = PCP

Public Procurement of
Innovative Solutions =
PPI

Inducement Prize

ERANET - Cofund

SME instrument

Fast Track to Innovation
= FTI (2015)

Convocatorias ordinarias - Tipo de acción

Research and
Innovation Action

Innovation Action

Coordination and
Support Actions (CSA)

Proyectos consorciados (al uso)

- Investigación **e** innovación: hasta el 100%
- Innovación: hasta el 70%

Acciones hasta 100%

- **Coordinación** (consorcio)
- **Apoyo** (puede ser individual)

Convocatorias ordinarias - Compra pública

**Pre-Commercial
Procurement = PCP**
Compra pública pre-
comercial

Contratación de servicios de investigación y desarrollo que implican compartir riesgos y beneficios en condiciones de mercado, y el desarrollo competitivo en fases, donde hay una clara separación de los servicios de investigación y desarrollo adquiridos y el despliegue de volúmenes comerciales de productos finales.

**Public Procurement of
Innovative Solutions = PPI**
Compra pública
innovadorea

Adquisiciones cuando los poderes adjudicadores actúan como un cliente de lanzamiento de productos o servicios innovadores que aún no están disponibles de forma comercial a gran escala, y pueden incluir pruebas de conformidad

Premios a la innovación: ejemplo

Premios

Premiar el alcance de objetivos específicos, incentivando a un más amplio rango de innovadores a involucrarse.

Win € 2 million for a leap forward in vaccine technology



The race to overcome weaknesses in the cold-chain for vaccine transport and storage is on! Many people in tropical and developing countries cannot benefit from life-saving vaccines because these vaccines are damaged during transport and storage. Many vaccines need to be kept at a cool and stable temperature to remain effective and this is difficult to ensure in these regions.

The European Commission is offering a EUR 2 million prize for innovations which can solve this global health problem.

No particular approach is prescribed. Solutions may include alternative ways of formulating, preserving or transporting vaccines. Whichever solution responds best to the competition criteria will win.

Take part in the competition and win this prestigious prize – the first of its kind!

http://ec.europa.eu/research/health/vaccine-prize_en.html

20/11/2014

Wanted: a better way to transport vaccines

By: [Gary Finnegan](#) | 0 Comments

On: October 17th, 2012 in [Vaccines](#)

Tags: [access](#), [Developing world](#), [EU](#), [Innovation](#), [transport](#), [Vaccines](#)

[Like](#) 14

[Tweet](#) 11

[+1](#) 0

[Share](#) 10



Millions of people in developing countries want to be immunised against diseases like [polio](#) and [cholera](#) but getting vaccines to rural villages in the world's poorest countries is tricky.

Vaccines must be kept at stable temperatures – which is a particularly challenging problem in sub-Saharan Africa, Asia and elsewhere. Not only can road networks and electricity supply systems be unreliable, high temperatures can render vaccines ineffective.

Finding a solution is far from easy but the EU has offered a reward of €2 million for a new way to get vaccines to those who need them most.

The prize, [unveiled at a health innovation conference in April](#), wants inventors, researchers, companies, NGOs – or anyone else with a workable solution – to come up with novel ways to formulate vaccines or alternative transportation techniques which would help more vaccines reach their destination intact.

Can vaccine prize deliver 'Eureka' moment?

Dr [Ruxandra Draghia-Akli](#), who heads up the health unit at the European Commission's research directorate, told [Vaccines Today](#) that the plan to offer a prize was inspired by the [X Prize](#) – a US-based fund which rewards bright ideas.

While the EU funds lots of individual health research projects, this one is different. It doesn't specify how the problem should be solved and is designed to inject extra impetus into the field of vaccine transport.

Even proposals that don't win the top prize could still be applied or adapted by aid agencies and companies working in developing countries.

It's designed to leverage at least a 10-fold fund from different participants. While the prize would reward the idea judged by experts as being the best, the entire field will be moved forward. It's

<http://www.vaccinestoday.eu/vaccines/wanted-better-way-transport-vaccines/>

El Instrumento PYME

Fase 1:

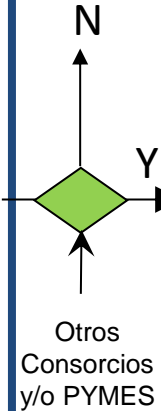
Análisis de viabilidad

- Viabilidad del concepto.
- Análisis de riesgos.
- Régimen PI.
- Planteamiento de proyecto.
- Búsqueda de socios.
- Estudio de diseño/s.
- Estrategia de innovación

Subvención («lump sum»):
50 k€ / 6 meses

Output: Plan de Negocio II

N



Otros
Consorcios
y/o PYMES

Fase2:

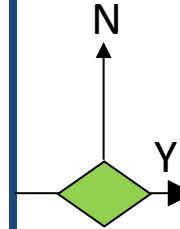
I+D, Demo

- Desarrollo I+D, prototipos, y/o ensayos.
- “Demostrar” procesos, productos o servicios innovadores.
- Diseño de productos
- Planificación y desarrollo del escalado industrial.
- Actualización modelo de negocio.

Subvención (70% costes) :
1-5 M€ financiación EC /
12 -24 meses

Output: Plan de Negocio III
“Investor ready”

N



Fase 3:

Comercialización

- Etiqueta calidad para proyectos exitosos.
- Acciones de soporte a través de networking, formación, coaching, información ,etc.
- Dirigidos a la gestión de IPR, compartir conocimiento y promoción y difusión.

Sin financiación directa

Con prioridad en

Ventanilla PYME en los
instrumentos financieros
(deuda y capital)

Idea/Concepto
Plan de Negocios I

Esquema de “Mentoring y Coaching” para las PYMES beneficiarias

El Instrumento PYME

SME Instrument: 6 lessons learnt from the first evaluation (that are also tips for the applicants)

- Brand new funding opportunity
- the Instrument is very selective and only the best of the best can succeed.
- Some excellent proposals – 155 champions- to finance a feasibility study.
- But..... many proposals that were not good enough to compete in the innovation champions' league.

Why?

Most of the non-selected proposals were:

- Too much focused on the project and **not enough on the business opportunity**;
- Not convincing when **describing the company** (you have to explain why **your company** will succeed and not your competitor);
- Not providing enough information on **competing solutions**;
- Having a too **low level of innovation**, planning to develop a product that already exists on the market;
- Proposing just an idea **without any concept for its commercialisation**;
- Just **trying their luck** (the SME Instrument is not a lottery!).



Fast Track to Innovation Pilot

Novedad en 2015 →

- ✓ **Acelerar** la llegada a **mercado** de las **ideas innovadoras**
- ✓ **Bottom-up**, cubriendo todas las temáticas (LEIT y SC)
- ✓ Máximo 5 socios, y hasta 3M€ por proyecto
- ✓ **Foco** en la participación **empresarial**:
 - **Al menos el 60% del presupuesto** total de la propuesta tiene que **corresponder a socios empresariales**
 - O el **número mínimo de socios industriales** tiene que ser de 2 en un consorcio de 3 o 4 socios, y de 3 si el consorcio cuenta con 5 socio.
- ✓ **La propuesta** ha de incluir **un business plan**.
- ✓ El criterio de **Impacto** cobra especial importancia (como en el resto de acciones de innovación).
- ✓ **Open call** con tres fechas de corte al año:
 - **Opening Date: 06/10/2015; Deadline(s): 29/04/2015; 01/09/2015; 01/12/2015**
- ✓ **“Time to grant”** no superando los **6 meses**

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ANEXO

- **Reto Social 5 - Programa de Trabajo 2014-2015**

Reto Social 5 → Programa de Trabajo 2014– 2015*

- ***Call – Waste: A Resource to Recycle, Reuse and Recover Raw Materials***
- ***Call – Water Innovation: Boosting its value for Europe***
- ***Call - Growing a Low Carbon, Resource Efficient Economy with a Sustainable Supply of Raw Materials.***
 - *Fighting And Adapting To Climate Change*
 - *Protecting The Environment, Sustainably Managing Natural Resources, Water, Biodiversity And Ecosystems*
 - *Ensuring The Sustainable Supply Of Non-energy And Non-agricultural Raw Materials*
 - *Enabling The Transition Towards A Green Economy And Society Through Eco-innovation*
 - *Developing Comprehensive And Sustained Global Environmental Observation And Information Systems*

Contribución a otras *Focus Areas*:

Blue Growth (SC2), Energy Efficiency (SC3), Disaster Resilience (SC7)

Waste: A resource to recycle, reuse and recover raw materials

Rationale:

- Major **opportunity for European society**
 - environmental protection, reducing GHG
 - economic growth and job creation
 - access of valuable raw materials
- Capitalise on **EU strengths ->EU as market leader** (€400 billion/year)
- **Innovation is key** ->whole production & consumption cycle, across all sectors of economic activities, with a better organisation of different actors, involvement of all stakeholders including citizens
- Supporting different **EU initiatives** -> Voices, Public-Private Partnerships on Sustainable Process Industries (SPIRE PPP) and on Bio-Based Industries, contributing to the Resource Efficiency Road Map



TOPICS	EVALUATION TYPE	EC CONTRIBUTION Suggested (M€)	BUDGET 2014 (€MIO)	BUDGET 2015 (€MIO)	
Call WASTE, A Resource to Recycle, Reuse and Recover Raw Materials					
<i>WASTE-1-2014. Moving towards a circular economy through industrial symbiosis (Inn.)</i>	2-stage	8 - 10	44*		* €5M contrib from LEIT included
WASTE-6-2015. Promoting eco-innovative waste management and prevention as part of sustainable urban development (Inn.; R&Inn)	2-stage	8 - 10 (Inn)		40	
<i>WASTE-2-2014. A systems approach for the reduction, recycling and reuse of food waste (R&Inn)</i>	2-stage	4 - 5 (R&Inn)	9**		** topic & budget from SC2
WASTE-7-2015. Ensuring sustainable use of agricultural waste, co-products and by-products (R&Inn)	2-stage	7		14**	
<i>WASTE-3-2014. Recycling of raw materials from products and buildings (R&Inn)</i>	1-stage	6 - 8	14.5		
WASTE-4-2014/2015. Towards near-zero waste at European and global level (CSA) a) A European near-zero waste stakeholder network (2014) b) Global waste dimension (2014) c) Secondary raw materials inventory (2014) d) Raw materials partnerships (2015)	1-stage		4.5	4	Up to one project per sub-topic shall be funded
<i>WASTE-5-2014. Preparing and promoting innovation procurement for resource efficiency (CSA- Support to PPI)</i>	1-stage		1		

Water innovation: Boosting its value for Europe



Rationale:

- Reinforce water innovation capacity and market uptake of successful research results
- Boost the competitiveness and growth of the European water sector
- Create leadership in water resources management and position Europe as a global market leader in water related innovative solutions
- Support the needs of relevant EU water, innovation and resource efficient policies, international commitments and related initiatives: EIP Water, EIP Agriculture, JPI on Water, SPIRE PPP, IPCC, Rio+20, etc.

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TOPICS	EVALUATION TYPE	EC CONTRIBUTION Suggested (M€)	BUDGET 2014 (€MIO)	BUDGET 2015 (€MIO)	
Call WATER INNOVATION, Boosting its value for Europe					
WATER-1-2014/2015. Bridging the gap: from innovative water solutions to market replication (Inn.)	2-stage	2 - 4 (2014) 6 - 8 (2015)	39	45	
WATER-2-2014/2015. Integrated approaches to water and climate change <i>a) Water cycle under future climate (R&Inn) 2014</i> b) Integrated approaches to food security, low-carbon energy, sustainable water management and climate change mitigation (R&Inn) 2015	2-stage	6 - 8	13	15	
WATER-3-2014/2015. Stepping up EU R&I cooperation in the water area (ERA-NET)	1-stage		10	15	
WATER-4-2014/2015. Harnessing EU water research and innovation results for industry, policy makers and citizens (CSA) <i>a) 2014 - b) 2015</i> WATER-5-2014/2015. Strengthening international R&I cooperation in the field of water (CSA) <i>a) 2014 - b) 2015</i>	1-stage		5	6***	*** topic 4b (& €3M budget) from SC2
WATER-5-2014/2015. Strengthening international R&I cooperation in the field of water c)2015 (R&Inn)	2-stage	2 - 3		15	

Call - Growing a Low Carbon, Resource Efficient Economy with a Sustainable Supply of Raw Materials

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Fighting and adapting to climate change

Rationale:

- Building the foundations for the development of European climate services
- Supporting climate policy through the development of strategic capabilities in climate projection, prospective economic analysis and international cooperation
- Preparing for future advances in IPCC reports



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Fighting and adapting to climate change

- In 2015 the main action will be the establishment of a very large and ambitious ERANET in support of the Climate JPI actions on climate services, which has been designed in order to be highly complementary to other actions launched at EU level in 2014 and that will follow in the years 2016-17. This will be accompanied by a coordination action on modelling and climate services.
- A further research and innovation action will tackle the issue of air quality in cities, bridging the human health and climate change needs, and contributing to increasing the compliance to the EU air quality legislation.

TOPICS	EVALUATION TYPE	EC CONTRIBUTION Suggested (M€)	BUDGET 2014 (€MIO)	BUDGET 2015 (€MIO)
SC5 CALL: Fighting and adapting to Climate Change				
<i>Climate Services for Europe and globally: SC5-1-2014. Advanced Earth-system models (R&Inn)</i>	2-stage	10 - 15	42	
<i>SC5-3-2014. The economics of climate change and linkages with sustainable development (R&Inn)</i>		6 - 8 3 - 5		
SC5-4-2015. Improving the air quality and reducing the carbon footprint of European cities (R&Inn)		6 - 8		
SC5-2-2015. ERA for Climate Services (ERA-NET)	1-stage			25
SC5-5-2014/2015. Coordinating and supporting R&I for climate action (CSA) a) Earth system modelling and climate services (2015) b) <i>Climate mitigation options (2014)</i>	1-stage		(*)	(*)

(*) part of a larger budget envelope; the budget for each action is not specified

Protecting the environment, sustainably managing natural resources, water, biodiversity and ecosystem



Rationale:

- The aim of this activity is to provide knowledge and tools for a balanced management and protection of natural resources.
- Research and innovation activities should therefore contribute to reversing the trends that damage the environment.
- Innovative actions should also ensure that ecosystems continue to provide the resources, goods and services that are essential for sustainable development.

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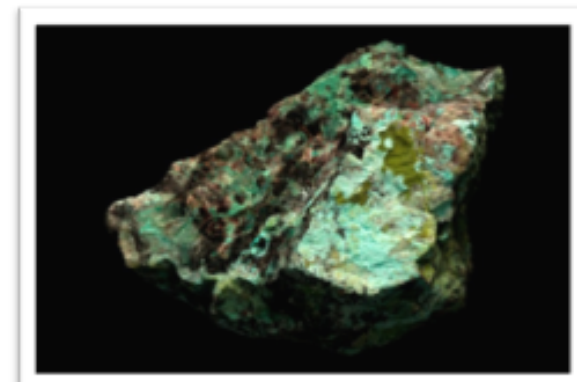


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TOPICS	EVALUATION TYPE	EC CONTRIBUTION Suggested (M€)	BUDGET 2014 (€MIO)	BUDGET 2015 (€MIO)
SC5 CALL: Protecting The Environment, Sustainably Managing Natural Resources, Water, Biodiversity and Ecosystems				
<i>SC5-6-2014. Biodiversity and ecosystem services: drivers of change and causalities (R&Inn)</i>	2-stage	5 - 10	20	
SC5-7-2015. More effective ecosystem restoration in the EU (R&Inn)		5 - 7		15
<i>SC5-8-2014. Preparing and promoting innovation procurement for soil decontamination (CSA-Support to PCP)</i>	1-stage		(*)	
<i>SC5-9-2014. Consolidating the European Research Area on biodiversity & ecosystems services (ERA-NET)</i>	1-stage		12	
SC5-10-2014/2015. Coordinating and supporting R&I for the management of natural resources (CSA): a) <i>Enhancing mapping ecosystems and their services (2014)</i> b) <i>Structuring research on soil, land-use and land management in Europe (2014)</i> c) An EU support mechanism for evidence-based policy on biodiversity & ecosystems services (2015)	1-stage		(*)	(*)

(*) part of a larger budget envelope; the budget for each action is not specified

Ensuring the sustainable supply of non-energy and non-agricultural raw materials



Rationale:

The European "Raw Materials Initiative" (launched in 2008)

- Ensure level playing field in access to resource in third countries
- Foster sustainable supply from European sources
- Boost resource efficiency and recycling

The European Innovation Partnership on Raw Materials (COM(2012) 82 final - 29 February 2012)

The overall objective of the EIP is to contribute to the 2020 objectives of the EU Industrial Policy to increase the share of industry on GDP to 20%, the Innovation Union flagship initiative, and the Resource Efficiency Policy by ensuring the sustainable supply of raw materials to European economy and society.

Specific:

- Reduce import dependency
- Improve supply conditions from the EU and other sources
- Push Europe to the forefront in raw materials sectors
- Provide alternatives in supply
- Mitigate negative environmental and social impacts

HORIZON 2020 → SIP adopted on 25 September 2013



TOPICS	EVALUATION TYPE	EC CONTRIBUTION Suggested (M€)	BUDGET 2014 (€MIO)	BUDGET 2015 (€MIO)
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SC5 CALL: Ensuring The Sustainable Supply of Non-energy and Non-agricultural Raw Materials

<p>SC5-11-2014/2015. New solutions for sustainable production of primary raw materials (R&Inn):</p> <ul style="list-style-type: none"> a) New exploration technologies and geomodels (2015) b) <i>Mining of small deposits and alternative mining (2014)</i> c) Deep mining on continent and in sea-bed (2015) d) <i>Flexible processing technologies (2014)</i> e) New metallurgical systems (2015) 	1-stage	2 - 8	33	48
<p>SC5-12-2014/2015. Innovative and sustainable solutions leading to substitution of raw materials (R&Inn):</p> <ul style="list-style-type: none"> a) <i>materials for electronic devices (2014)</i> b) Materials under extreme conditions (2015) 	1-stage	2 - 5	10	10
<p>SC5-13-2014/2015. Coordinating and supporting raw materials R&I (CSA)</p> <ul style="list-style-type: none"> a) <i>Mineral deposits of public importance (2014)</i> b) Raw materials intelligence capacity (2015) c) Innovation friendly minerals policy framework (2015) d) Raw materials research and innovation coordination (2015) e) <i>Strategic international dialogues and co-operation on raw materials with technologically advanced countries (2014)</i> f) Strategic international dialogues and co-operation with raw materials producing countries and industry (2015) 	1-stage	1 - 2	5	8

Enabling the transition towards a green economy through eco-innovation

Rationale:

- Decoupling growth from the use of natural resources
- Eco-innovation as the main driver
- Eco-innovation creates major opportunities for growth and jobs in Europe and internationally
- Green growth tackled globally and contributes to international commitments



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TOPICS	EVALUATION TYPE	BUDGET 2014 (€MIO)	BUDGET 2015 (€MIO)
SC5 CALL: Enabling the Transition Towards a Green Economy and Society Through Eco-innovation			
<i>SC5-14-2014. Consolidating global knowledge on the green economy in support of sustainable development objectives in Europe and internationally (CSA) (2014)</i>	1-stage	(*)	

(*) part of a larger budget envelope; the budget for each action is not specified

Developing comprehensive and sustained global environmental observation and information systems



Rationale:

- Comprehensive environmental observation and information systems to stimulate the smart use of resources.
- Information and knowledge from these systems will also be used to support evidence-based policies and develop new opportunities in global markets.
- Free and open access to data for Earth observation and monitoring will be encouraged.

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Developing comprehensive and sustained global environmental observation and information systems

- **In 2015 the Earth Observation activities will focus on three main actions:**
 - An ERA-NET for better bringing together and strengthening the European Earth Observation capacities
 - A demonstration action for showing the potential of the Citizens' Observatories concept
 - An international cooperation coordination action for supporting the integration of EO activities in GEOSS in North Africa, Middle-East and the Balkans

TOPICS	EVALUATION TYPE	EC CONTRIBUTION Suggested (M€)	BUDGET 2014 (€MIO)	BUDGET 2015 (€MIO)
SC5 CALL: Developing Comprehensive and Sustained Global Environmental Observation and Information Systems				
SC5-15-2015. Strengthening the European Research Area in the domain of Earth Observation (ERA-NET)	1-stage			15
<i>SC5-16-2014. Making Earth Observation and Monitoring data usable for ecosystem modelling and services (R&I)</i>	2-stage	8 - 15	14	
SC5-17-2015. Demonstrating the concept of 'Citizen Observatories' (Inn.)		3 - 5		20
SC5-18-2014/2015. Coordinating and supporting Earth Observation R&I in Europe and in the North African , Middle East and Balkan region (CSA): <i>a) Coordinating European Earth Observation Networks to reinforce the knowledge base for climate, natural resources and raw materials (2014)</i> b) Integrating North African, Middle-East and Balkan Earth Observation capacities in GEOSS (2015)	1-stage		(*)	(*)

(*) part of a larger budget envelope; the budget for each action is not specified

Cross-challenge issues



- Coordinating and supporting research and innovation in the area of climate action, environment, resource efficiency and raw materials
- Boosting the potential of small businesses for eco-innovation and a sustainable supply of raw materials

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TOPICS	EVALUATION TYPE	BUDGET 2014 (€MIO)	BUDGET 2015 (€MIO)
SC5 CALL: Cross-challenge Topics			
<p>SC5-19-2014/2015. Coordinating and supporting R&I in the area of climate action, environment, resource efficiency and raw materials (CSA):</p> <p>a) Mapping Member State R&I in climate action, environment, resource efficiency and raw materials (2015)</p> <p>b) <i>Facilitating transnational cooperation between NCPs in Societal Challenge 5 (2014)</i></p>	1-stage	2	5
<p>SC5-20-2014/2015. Boosting the potential of small businesses for eco-innovation and a sustainable supply of raw materials (SME Instrument)</p>	1-stage	17**	19**

** see the work programme for details

Otras FOCUS AREAS →

Blue Growth (SC_2)

Energy Efficiency (SC_3), solo en 2014

Disaster Resilience (SC_7)

Blue Growth: Unlocking the potential of the oceans



Rationale:

- The objective is to address wide and complex ocean challenges which are cross-cutting in nature
- Developing in-situ Atlantic Ocean Observations for a better management and exploitation of the maritime resources
- Improving the preservation and sustainable exploitation of Atlantic marine ecosystems
- Strengthening international cooperation in the field of marine sciences
- European polar research cooperation

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TOPICS

EVALUATION
TYPE

BUDGET
2014
(€MIO)

BUDGET
2015
(€MIO)

Call: BLUE GROWTH

BG-1-2015: Improving the preservation and sustainable exploitation of Atlantic marine ecosystems (R&Inn)

2-stage

20

BG-8-2014: Developing in-situ Atlantic Ocean observations for a better management and conservation of maritime resources

2-stage

20

BG-9-2014: Developing new technologies (R&Inn)

2-stage

10

BG-14-2014: Supporting flagship international cooperation initiatives: Atlantic Ocean Cooperation Research Alliance (CSA)

1-stage

3.5

BG-15-2014: European polar research cooperation (CSA)

1-stage

2

Opening Date: 25/07/2014
Deadline Date (1st Stage): 03/02/2015
(2nd Stage): 11/06/2015

Disaster-resilience: Safeguarding society and adapting to climate change



Rationale:

- Adaptation to climate change: from assessing costs, risks and opportunities to demonstration of options and practices
- Natural hazards: towards risk reduction plans at national and European level
- Cultural Heritage: mitigating the impacts of climate change and natural hazards

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TOPICS

EVALUATION
TYPE

BUDGET
2014
(€MIO)

BUDGET
2015
(€MIO)

FOCUS AREA: DISASTER-RESILIENCE *

DRS-9-2014/2015: Science and innovation for adaptation to climate change: from assessing costs, risks and opportunities to demonstration of options and practices

a) 2014: CSA

b) 2014: R&Inn

c) 2015: Inn.

DRS-10-2015: Natural hazards: towards risk reduction science and innovation plans at national and European level (CSA)

DRS-11-2015: Mitigating the impacts of climate change and natural hazards on cultural heritage sites, structures and artefacts (R&Inn)

Planned Opening Date: 25/03/2015
Deadline Date (1st Stage): 27/08/2015

1-stage 15

1-stage 3

1-stage 10

* *The figures for this FA are provided as an indication*