

JORNADA DE REVISIÓN DE PROPUESTAS HORIZONTE 2020
BARCELONA, 20 DE FEBRERO DE 2015

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

} **RETO SOCIAL 5,
H2020**

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Reto Social 5 - H2020
CDTI

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

H2020: Objetivos y Estructura



HORIZONTE 2020

H2020-Reto Social 5

- **Objetivos**
- **Programa de Trabajo 2014-2015**
- **Algunos detalles del Programa de Trabajo**
- **De las propuestas**

Y de cara al futuro.....

Apoyo a la participación
Conclusiones

HORIZONTE 2020

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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 calidad social.

- **Climate change and energy sustainability**

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.

- *3% of the EU's budget to be invested*

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*



¿Qué es Horizonte 2020?

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



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



Ciencia excelente	$\approx 32\%$	24.441	462
1. El Consejo Europeo de Investigación (CEI)		13.095	816
2. Las Tecnología Futuras y Emergentes (FET)		2.696	2.711
3. Las acciones Marie Skłodowska Curie		6.162	1.903
4. Las infraestructuras de investigación		2.488	
Liderazgo Industrial	$\approx 22\%$	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	$\approx 38\%$	29.679	Clencia con y para la sociedad
1. Salud, cambio demográfico y bienestar		7.472	Difundiendo la excelencia y ampliando la participación
2. Seguridad alimentaria, agricultura y silvicultura sostenibles, investigación marina, marítima y fluvial y bioeconomía		3.851	Instituto Europeo de Innovación y Tecnología
3. Energía segura, limpia y eficiente		5.931	Acciones directas no nucleares del Centro Común de Investigación (JRC)
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
20% Industrial Leadership and Societal Challenges budget should go to **SMEs** (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€



* Ver descripción en Anexos

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

20/02/2015



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



VII PM – Medio Ambiente →



H2020 – Reto Social 5

- 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).

HORIZONTE 2020

H2020-Reto Social 5

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H2020 – Reto Social 5

Programa de Trabajo → Fuentes + Inputs



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
 - PPPs “Sustainable Process Industries”(SPIRE) y “Bio-Based Industries” (BBI)
 - ERANETs: ECOINNOVERA, ERAMIN, Cultural Heritage, Seas-ERA
- Y...
 - Directivas y Políticas Europeas, Planes, Comunicaciones, etc
 - Acciones/Paneles Internacionales (p.e. IPCC), etc.

H2020

ESTRUCTURA DEL PROGRAMA DE TRABAJO (2014 – 2015)

- **Programación “estratégica”:** En el WP 2014-15, el principal objetivo estratégico es la contribución al crecimiento y generación de empleo.
Se han identificado un cierto número de áreas, muchas de las cuales son de naturaleza horizontal, en las cuales se quiere concentrar esfuerzo y financiación por motivos estratégicos, (“Focus Areas”, 12 en el WP 2014-15)
- Otro **“bloque” del WP** contiene aquellas actividades relacionadas con el Reto Social y que no están directamente contenidas dentro de ninguna de las Focus Areas.

H2020 – WP 2014-15.- «Focus Areas»

- Personalising health and care
- Sustainable food security
- Blue growth: unlocking the potential of the oceans
- Smart cities and communities
- Competitive low-carbon energy
- Energy efficiency
- Mobility for growth
- Waste: a resource to recycle, reuse and recover raw materials
- Water innovation: boosting its value for Europe
- Overcoming the crisis: new ideas, strategies and governance structures for Europe
- Disaster-resilience: safeguarding society and adapting to climate change
- Digital security

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)

TÍTULO

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

RETO ESPECÍFICO

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.

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

ALCANCE

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

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					
WASTE-1-2014. Moving towards a circular economy through industrial symbiosis (Inn.)	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 a) Eco-innovation solutions (Inn) b) Eco-innovation strategies (R&Inn)	2-stage	8 – 10 (Inn)	30	10	
		4 – 5 (R&Inn)			
WASTE-2-2014. A systems approach for the reduction, recycling and reuse of food waste (R&Inn)	2-stage	9	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**	** topic & budget from SC2
WASTE-3-2014. Recycling of raw materials from products and buildings (R&Inn)	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	1,5 (2015)	4.5	4	
WASTE-5-2014. Preparing and promoting innovation procurement for resource efficiency (CSA- Support to PPI)	1-stage		1		

WASTE-6-2015: Promoting eco-innovative waste management and prevention as part of sustainable urban development

Specific Challenge: ...Boosting *eco-innovative solutions to prevent waste generation and promote the use of waste as a resource*, in line with the objectives of the EU Resource Efficiency Roadmap and the Waste Framework Directive, *Developing and demonstrating such solutions in real-life environments will enhance their market uptake and contribute to sustainable urbanisation worldwide.*

Scope: Proposals should adopt an *integrated urban metabolism approach and inter-disciplinary research and innovation* and take into account the *gender dimension* where relevant. Proposals should *involve active engagement of local authorities, citizens and other relevant stakeholders*, using innovative concepts such as mobilisation and mutual learning.

- a) *Eco-innovative solutions (Innovation Actions)*
- b) *Eco-innovative strategies (Research and Innovation Actions)*

Expected impact: Significant measurable *improvements in the state of the art in waste management in urban and peri-urban areas, and in the operationalisation of the urban metabolism approach for sustainable urban development*

Specific impacts:

- a)
- b).....

WASTE-7-2015: Ensuring sustainable use of agricultural waste, co-products and by-products

The **multi-actor approach** aims at **more demand-driven innovation** through the genuine and sufficient **involvement of various actors** (end-users such as farmers/farmers' groups, advisors, enterprises, etc.) **all along the project** from participation in the planning of work and experiments, their execution up until the dissemination of results and the possible demonstration phase. The adequate choice of **key actors with complementary types of knowledge** (scientific and practical) should be reflected in the description of the project proposals and result in a broad implementation of project results.

The **multi-actor approach** is more than a strong dissemination requirement or what a broad range of stakeholders can deliver: it should be illustrated with a sufficient quantity and quality of knowledge exchange activities and a clear role for the different actors in the work. This should generate innovative solutions that are more likely to be applied thanks to the **cross-fertilisation of ideas** between actors, the **co-creation and the generation of co-ownership for eventual results**.

A **multi-actor project** needs to take into account how the objectives and planning of the project proposal are **targeted to needs/problems and opportunities of end-users**, as well as **complementarity with existing research**. Facilitation between actors and openness to involving additional players/groups of players during the project, for instance relevant EIP operational groups, is strongly recommended.



Y además.....(en la Introducción de la “call”)

Topics contributing to the objectives of this call in **other parts** of this Horizon 2020 Work Programme include:

- *FoF 13 – 2015: Reuse and recycling technologies and life cycle management*
- *SPiRE 7 – 2015. Recovery technologies for metals and other minerals.*

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.

HORIZON 2020

20/02/2015



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 a) 2014.- First application and market replication (Inn) b) 2015.- Demonstration/pilot activities (Inn)	2-stage	2 - 4 (2014) 6 - 8 (2015)	39	45	
WATER-2-2014/2015. Integrated approaches to water and climate change a) Water cycle under future climate (R&Inn) 2014 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) a) 2014 b) 2015	1-stage	1 (2014)	5	6***	*** topic 4b (& €3M budget) from SC2
WATER-5-2014/2015. Strengthening international R&I cooperation in the field of water (CSA) a) 2014 b) 2015		3 (2015)			
WATER-5-2014/2015. Strengthening international R&I cooperation in the field of water c) 2015 (R&Inn)	2-stage	2 - 3		15	

WATER-1-2014/2015: Bridging the gap: from innovative water solutions to market replication

Specific Challenge:*The EIP on Water has identified 8 priority areas: 5 thematic priorities (water reuse and recycling; water and waste water treatment, including recovery of resources; water and energy integration; flood and drought risk management; and the role of ecosystem services in the provision of water related services) and 3 cross-cutting priorities (water governance; decision support systems and monitoring; and financing for innovation).*

Scope:

b) [2015] Demonstration/pilot activities of new or improved innovative water solutions in a real environment, with a focus on the cross cutting priorities identified in the EIP on Water, while addressing the thematic priorities.

Expected Impact: Wide and fast deployment of sustainable innovative solutions in the water management sector. Contribution to the implementation of the EIP 'Water'. Support to the objectives of the Sustainable Process Industries Public-private Partnership (SPIRE PPP),

Type of Action: Innovation Actions

WATER-4-2014/2015: Harnessing EU water research and innovation results for industry, agriculture, policy makers and citizens

Scope:

b) [2015] Proposals should aim to:

- *implement measures to showcase, exchange, test and transfer water management solutions to end-users in the agricultural sector in view of improving water use efficiency and quality in agricultural practices.*
- *contribute to a 'thematic network' on water in agriculture with broad involvement of practitioners and other stakeholders throughout Europe to compile, disseminate and further develop solutions; and*
- *support the integration of water relevant issues in the EIP on 'Agricultural Productivity and Sustainability', including linking up with EIP operational groups and related actions of the EIP on 'Water'.*

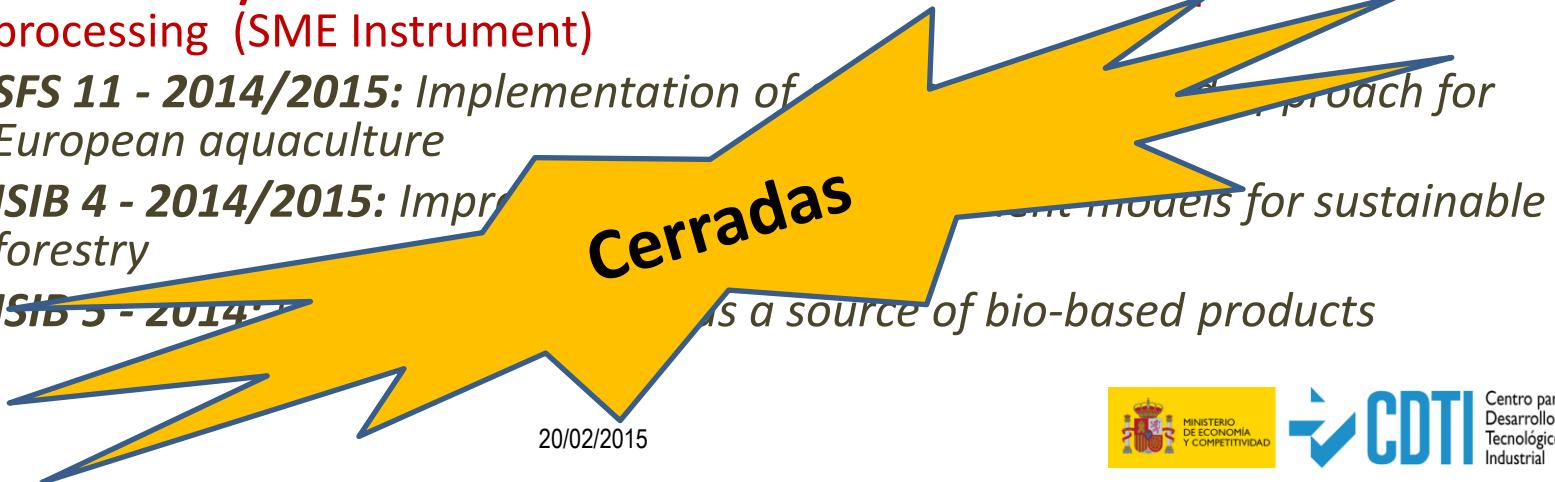
Expected Impact: b) Enhanced interface between knowledge (practical, scientific) and agricultural user communitiesIncreased application of water-related solutions (at technological, management or organisational levels)Support to the implementation of the EIPs on 'Agricultural Productivity and Sustainability' and 'Water'.

Type of Action: Coordination and Support Action

Y además.....(en la Introducción de la “call”)

Other topics contributing to the objectives of this call in other parts of this Horizon 2020 Work Programme include:

- **NMP 15 - 2015:** Materials innovations for the optimisation of cooling in power plants
- **NMP 24 - 2015:** Low-energy solutions for drinking water production
- **INFRAIA 1-2014/2015:** Integrating and opening existing national and regional research infrastructures of European interest (research infrastructures for hydrological/hydrobiological research; research infrastructures for long-term ecosystem and socio-ecological research; research infrastructures for environmental hydraulic research)
- **SFS 2 - 2014/2015:** Sustainable crop production
- **SFS 8 - 2014/2015:** Resource-efficient eco-innovative food production and processing (SME Instrument)
- **SFS 11 - 2014/2015:** Implementation of European aquaculture
- **ISIB 4 - 2014/2015:** Improving the competitiveness of European forestry
- **ISIB 5 - 2014:** Exploiting the potential of biomass as a source of bio-based products



Cerradas

20/02/2015



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

- ✓ *Fighting and Adapting to Climate Change (2014-2015)*
- ✓ *Protecting the Environment, Sustainably Managing Natural Resources, Water, Biodiversity and Ecosystems (2014-2015)*
- ✓ *Ensuring the Sustainable Supply of Non-energy and Non-agricultural Raw Materials (2014-2015)*
- ✓ *Enabling the Transition Towards a Green Economy and Society through Eco-innovation (2014)*
- ✓ *Developing Comprehensive and Sustained Global Environmental Observation and Information Systems (2014-2015)*

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



HORIZON 2020

20/02/2015



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:</i> SC5-1-2014. Advanced Earth-system models (R&Inn)	2-stage	10 - 15	42	
SC5-3-2014. The economics of climate change and linkages with sustainable development (R&Inn)		6 - 8 3 - 5		
SC5-4-2015. Improving the air quality and reducing the carbon footprint of European cities (R&Inn)		6 - 8		15
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) Climate mitigation options (2014)	1-stage		(*)	(*)

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

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

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

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 values established by the European directives. The sources of pollution in cities are mainly linked to urban activities such as transport and heating*

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..... Furthermore, awareness-raising actions and policy support activities should be included.*

Expected impact: *Reduction of the negative effects on health and climate together with the costs associated with air pollution in the EU.Rapid market deployment of technological and non-technological innovative solutions. Contribution to the goals of the Smart Cities and Communities focus area.Improved air quality in EU cities in the medium- to long-term.*

Type of Action: Research and innovation actions

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.

HORIZON 2020

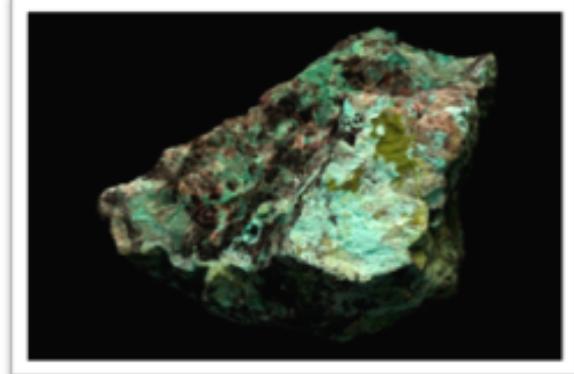
20/02/2015



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				
SC5-6-2014. Biodiversity and ecosystem services: drivers of change and causalities (R&Inn)	2-stage	5 - 10	20	
SC5-7-2015. More effective ecosystem restoration in the EU (R&Inn)		5 - 7		15
SC5-8-2014. Preparing and promoting innovation procurement for soil decontamination (CSA-Support to PCP)	1-stage		(*)	
SC5-9-2014. Consolidating the European Research Area on biodiversity & ecosystems services (ERA-NET)	1-stage		12	
SC5-10-2014/2015. Coordinating and supporting R&I for the management of natural resources (CSA): a) Enhancing mapping ecosystems and their services (2014) b) Structuring research on soil, land-use and land management in Europe (2014) 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)
SC5 CALL: Ensuring The Sustainable Supply of Non-energy and Non-agricultural Raw Materials				
SC5-11-2014/2015. New solutions for sustainable production of primary raw materials (R&Inn): a) New exploration technologies and geomodels (2015) b) <i>Mining of small deposits and alternative mining</i> (2014) c) Deep mining on continent and in sea-bed (2015) d) <i>Flexible processing technologies</i> (2014) e) New metallurgical systems (2015)	1-stage	2 - 8	33	48
SC5-12-2014/2015. Innovative and sustainable solutions leading to substitution of raw materials (R&Inn): a) <i>Materials for electronic devices</i> (2014) b) Materials under extreme conditions (2015)	1-stage	2 - 5	10	10
SC5-13-2014/2015. Coordinating and supporting raw materials R&I (CSA) a) <i>Mineral deposits of public importance</i> (2014) 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</i> (2014) 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



HORIZON 2020

20/02/2015



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.

HORIZON 2020





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): a) <i>Coordinating European Earth Observation Networks to reinforce the knowledge base for climate, natural resources and raw materials (2014)</i> b) <i>Integrating North African, Middle-East and Balkan Earth Observation capacities in GEOSS (2015)</i>	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

HORIZON 2020

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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> <ul style="list-style-type: none"> a) Mapping Member State R&I in climate action, environment, resource efficiency and raw materials (2015) b) <i>Facilitating transnational cooperation between NCPs in Societal Challenge 5 (2014)</i> 	1-stage		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), 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

HORIZON 2020



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 observations for a better management and protection of maritime resources (R&Inn)	2-stage		20
BG-9-2014: Supporting the development of 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

HORIZON 2020

20/02/2015

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	1-stage	15	
b) 2014: R&Inn	1-stage	15	
c) 2015: Inn.	1-stage	15	
DRS-10-2015: Natural hazards: towards risk reduction science and innovation plans at national and European level (CSA)	1-stage	3	
DRS-11-2015: Mitigating the impacts of climate change and natural hazards on cultural heritage sites, structures and artefacts (R&Inn)	1-stage	10	

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

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

HORIZONTE 2020

H2020-Reto Social 5

- Objetivos
- Programa de Trabajo 2014-2015
- Algunos detalles del Programa de Trabajo
- De las propuestas

Y de cara al futuro.....

Apoyo a la participación
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H2020 - Reto Social 5

Programa de Trabajo 2014-2015

- *This Work Programme covers 2014 and 2015,*

**Programa 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

Programa de Trabajo 2014-15...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€

Programa de Trabajo 2014-15...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		
2014	Two Stages	08/12/2014	10/03/2014
2015	One Stage	21/04/2015	
2015	Two Stages	21/04/2015	08/09/2015

- Fechas SC5-20 (SME Instrument) →

		Phase 1	Phase 2	Phase 1	Phase 2
2014/2015	SME Instrument (Open call with «cut-off» dates)	10/06/2014 20/07/2014 17/12/2014	01/01/2015	18/03/2015 17/06/2015 17/09/2015 16/12/2015	18/03/2015 17/06/2015 17/09/2015 16/12/2015

Programa de Trabajo 2014-15...algunos DETALLES

TYPE of Actions	TOPICS		
	%Total Budget	One Stage	Two Stage
Innovation Actions	28%	1	2
Research and Innovation Actions	42%	3	5
Coordinating and Support Actions	9%	7	
ERANET Cofund	15%	3	
SME Instrument	6%		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**
-**otras**

Programa de Trabajo 2014-15...algunos DETALLES

De las PYMEs

- En H2020 → a las **PYMES** una **contribución del 20% del presupuesto** de Liderazgo Industrial y Retos Sociales.
- **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

Definición de “Technology Readiness Levels” (TRL).-

- **TRL 1** – basic principles observed
- **TRL 2** – technology concept formulated
- **TRL 3** – experimental proof of concept
- **TRL 4** – technology validated in lab
- **TRL 5** – technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies)
- **TRL 6** – technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies)
- **TRL 7** – system prototype demonstration in operational environment
- **TRL 8** – system complete and qualified
- **TRL 9** – actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies; or in space)

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

Al principio de las “calls”: Waste, Water y general SC5

Pilot on Open Research Data

“The projects funded under Societal Challenge 'Climate action, environment, resource efficiency and raw materials, callof the Work Programme 2014-15, (withsome exceptions) , will participate in the Pilot on Open Research Data in Horizon 2020

Projects have the possibility to opt out of the Pilot.

A further new element in Horizon 2020 is the use of Data Management Plans (DMPs), detailing what data the project will generate, whether and how it will be exploited or made accessible for verification and re-use, and how it will be curated and preserved. The use of a Data Management Plan is required for projects participating in the Open Research Data Pilot.

Other projects are invited to submit a Data Management Plan if relevant for their planned research...”

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

Al principio de las “calls”: Waste, Water y general SCS

Sinergias con otros fondos

Revisión
2015

“....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 solutions resulting from projects e.g. through public procurement for innovative solutions. To indicate which interested regions/countries identified for contact during the project.”



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

20/02/2015

HORIZONTE 2020

H2020-Reto Social 5

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Portal del participante

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

The screenshot shows the European Commission Research & Innovation Participant Portal. The main navigation bar includes links for HOME, FUNDING OPPORTUNITIES, HOW TO PARTICIPATE, EXPERTS, SUPPORT, and HELPDESK. The sidebar on the right contains links for Horizon 2020 Helpdesk, Enterprise Europe Network, National Contact Points, Glossary, FAQ (highlighted with a yellow box), IT Helpdesk, Other Help Services, and Terms and Conditions.

User manuals for the PP services:

- Organisation registration - User Manual
- SME self-assessment tool - User Guide
- Submission Service - User Manual
- FP7 Negotiation, Amendments and Periodic reporting: online Manual
- FP7 Financial reporting - User Manual
- FP7 Reporting and deliverables - User Manual

Participant Portal sections:

1. Participant Portal
2. User Registration and ECAS account
3. (NEW) Roles and access rights
4. (NEW) Beneficiary Register and organisation data management
5. Submission of proposals
6. (NEW) Grant preparation and signature
7. Reporting
8. Audits and Certificates
9. Electronic submission of financial statements (Forms C)
10. Joint Technology Initiatives
11. Calls
12. (NEW) H2020 and FP7 Reference Documents
13. (NEW) Experts

Information and Support:

- PERSONAL AREA
- INFORMATION AND SUPPORT

CDTI
Centro para el Desarrollo Tecnológico Industrial



RESEARCH & INNOVATION

Participant Portal

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

HOME

FUNDING OPPORTUNITIES

HOW TO PARTICIPATE

EXPERTS

SUPPORT ▾

LOGIN

REGISTER

H2020 Online Manual

Reference Documents

Beneficiary Register

Financial Capacity Self-Check

SME Participation

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

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.



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 Tecnológico
 Industrial

Formularios → Ejemplo: RIA/IA/CSA

A

- 1. General information
- 2. Participants & contacts
- 3. Budget
- 4. Ethics
- 5. Call-specific questions

B

- Cover page
- 1. Excellence
- 2. Impact
- 3. Implementation
- 4. Members of the consortium
- 5. Ethics and Security

Datos administrativos y financieros
Formato PDF

20/02/2015

Contenido técnico de la propuesta
Formato Word → PDF



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Tecnológico
Industrial

Technical Annex - Part B: Ejemplo RIA/IA

1. Excelence.-

1.1 Objectives

1.2 Relation to the work programme

1.3 Concept and approach

1.4 Ambition

2. Impact.-

2.1 Expected impacts

2.2 Measures to maximise impact

- a) Dissemination and exploitation of results
- b) Communication activities

3. Quality and efficiency of the implementation

3.1 Work plan — Work packages, deliverables and milestones

3.2 Management structure and procedures

3.3 Consortium as a whole

3.4 Resources to be committed

4. Members of the consortium

5. Ethics and Security

(En **negro**, los aspectos que se completan en **Stage 1**)

Criterios Evaluación: Ejemplo RIA/IA

- **Excellence.-**
 - Clarity and pertinence of the objectives;
 - Credibility of the proposed approach;
 - Soundness of the concept, including trans-disciplinary considerations, where relevant;
 - Extent that proposed work is ambitious, has innovation potential, and is beyond the state of the art.
- **Impact.-**
 - The expected impacts listed in the work programme under the relevant topic;
 - Enhancing innovation capacity and integration of new knowledge;
 - Strengthening the competitiveness and growth of companies by developing innovations meeting the needs of European and global markets, and where relevant, by delivering such innovations to the markets;
 - Any other environmental and socially important impacts;
 - Effectiveness of the proposed measures to exploit and disseminate the project results (including management of IPR), to communicate the project, and to manage research data where relevant.
- **Quality and efficiency of the implementation*.-**
 - Coherence and effectiveness of the work plan, including appropriateness of the allocation of tasks and resources;
 - Complementarity of the participants within the consortium (when relevant);
 - Appropriateness of the management structures and procedures, including risk and innovation management.

* Experts will also be asked to assess the operational capacity of applicants to carry out the proposed work.

(En negro, los aspectos que se tienen en cuenta en Stage 1)

Technical Annex - Part B: Ejemplo CSA

1. Excelence.-

1.1 Objectives

1.2 Relation to the work programme

1.3 Concept and approach, quality of the coordination and support measures

2. Impact.-

2.1 Expected impacts

2.2 Measures to maximise impact

- a) Dissemination and exploitation of results
- b) Communication activities

3. Quality and efficiency of the implementation

3.1 Work plan — Work packages, deliverables and milestones

3.2 Management structure and procedures

3.3 Consortium as a whole

3.4 Resources to be committed

4. Members of the consortium

5. Ethics and Security

(En negro, los aspectos que se completan en Stage 1)

Criterios Evaluación: Ejemplo CSA

➤ Excellence.-

- Clarity and pertinence of the objectives;
- **Credibility of the proposed approach;**
- Soundness of the concept;
- Quality of the proposed coordination and/or support measures.

➤ Impact.-

- The expected impacts listed in the work programme under the relevant topic;
- Effectiveness of the proposed measures to exploit and disseminate the project results (including management of IPR), to communicate the project, and to manage research data where relevant.

➤ Quality and efficiency of the implementation*.-

- Coherence and effectiveness of the work plan, including appropriateness of the allocation of tasks and resources;
- Complementarity of the participants within the consortium (when relevant);
- Appropriateness of the management structures and procedures, including risk and innovation management.

* Experts will also be asked to assess the operational capacity of applicants to carry out the proposed work.

(En **negro**, los aspectos que se tienen en cuenta en **Stage 1**)

Criterios Evaluación: umbrales y pesos(*)

Criterios de selección	Umbral mín/máx.; peso ⁽¹⁾			
	RIA	IA	SME Instr.	Fase1 Fase2
1. Excellence			3/5; 1	
2. Impact	3/5; 1		3/5; 1,5	
3. Implementation	3/5; 1			3/5; 1

“Two-stage” submission → 1st stage:

- Only the criteria ‘excellence’ and “impact” will be evaluated
- The threshold for both individual criteria will be 4.



«ex-aequo»

Topics not otherwise covered by more highly-ranked proposals



- Budget to SMEs
- Gender balance



- Synergies between projects, or other factors related to the objectives of the call or to Horizon 2020 in general

(*)Anexo H_WP 2014-2015.-

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/annexes/h2020-wp1415-annex-ga_en.pdf

A tener en cuenta..... Evaluación



Horizon 2020 Quick Info for National Contact Points February 2014

Maximum 8 months time-to-grant in Horizon 2020 – what does it entail?

Within Horizon 2020, proposals must be mature and complete. Proposals will be evaluated as they were submitted, rather than on their potential if certain changes were to be made. This means that only proposals that successfully address all the required aspects will have a chance of being funded. When an evaluator identifies significant shortcomings, he or she must reflect this by awarding a lower score for the criterion concerned.

There will be no possibility for significant changes to content, budget and consortium composition during grant preparation.

A tener en cuenta.... Evaluación

Impact of grant preparation on evaluation



- **No grant negotiation phase!**
 - The time from submission of a proposal, evaluation and signature of the grant has been reduced to a maximum of 8 months (max. 5 months for evaluation + max. 3 months for grant signature)
- **What does this mean for the evaluation of proposal?**
 - You evaluate each proposal as submitted
not on its potential if certain changes were to be made
 - If you identify shortcomings (other than minor ones and obvious clerical errors), you must reflect those in a lower score for the relevant criterion
 - You explain the shortcomings, but do not make recommendations
i.e. do not suggest additional partners, additional work packages, resources cut...
 - Proposals with significant weaknesses that prevent the project from achieving its objectives or with resources being seriously over-estimated must not receive above-threshold scores
 - Any proposal with scores above the thresholds and for which there is sufficient budget will be selected as submitted

A tener en cuenta..... Evaluación

If a proposal

- Is only marginally relevant in terms of its scientific, technological or innovation content relating to the call or topic addressed, you must reflect this in a lower score for the **Excellence** criterion
 - No matter how excellent the science!
- Does not significantly contribute to the expected impacts as specified in the WP for that call or topic, you must reflect this in a lower score for the **Impact** criterion
- Would require substantial modifications in terms of implementation (i.e. change of partners, additional work packages, significant budget or resources cut...), you must reflect this in a lower score for the "**Quality and efficiency of the implementation**" criterion
- If cross-cutting features are explicitly mentioned in the scope of the call or topic, and not properly addressed (or their non-relevance justified), you must reflect this in a lower score for the **relevant** criterion
 - A successful proposal is expected to address them, or convincingly explain why not relevant in a particular case
 - Proposals addressing cross-cutting features which are not explicitly mentioned in the scope of the call or topic can also be evaluated positively



De la competencia.....

WP Call	Indicative Budget	Nº of proposals submitted	Nº of inadmissible /ineligible proposals	Nº of proposals above threshold	Total budget requested (Proposals above threshold)
WATER-2014, Single Stage	15.000.000	33	0	25	34.413.043
WASTE-2014, Single Stage	20.000.000	51	0	25	114.126.625
SC5-2014, Single Stage	73.000.000	77	2	46	196.030.329

≈ 37,4% del presupuesto Calls 2014

WP Call	Indicative Budget	1st Stage				2nd Stage		
		Nº of proposals submitted	Nº of inadmissible/ineligible proposals	Nº of proposals above threshold	Total budget requested (Proposals above threshold)	Nº of proposals submitted	Nº of proposals above threshold	Total budget requested (Proposals above threshold)
WATER-2014, 2-Stage	52.000.000	139	3	52	215.191.009	51	38	163.638.259
WASTE-2014, 2-Stage	53.000.000	100	4	27	231.298.643	27	20	175.419.670
SC5-2014, 2-Stage	76.000.000	95	6	37	296.259.994	37	28	229.683.465

≈ 62,6% del presupuesto Calls 2014

* "Flash-information" de las convocatorias en el Portal del Participante



Así que.....

1. Confirmar el instrumento de financiación → está identificado en cada “topic”
2. ¡Cuidado con el envío! → online y dar al botón de “submit” a tiempo
3. Cada medio punto.....¡CUENTA! → toques finales que diferencian las propuestas de calidad
4. Necesitamos puntuaciones altas en todos los criterios y....ponerse en el lugar del Evaluador
5. Usar toda la ayuda disponible – Peer Review → revisión por un compañero + self-evaluation form
6. Coherencia

HORIZONTE 2020

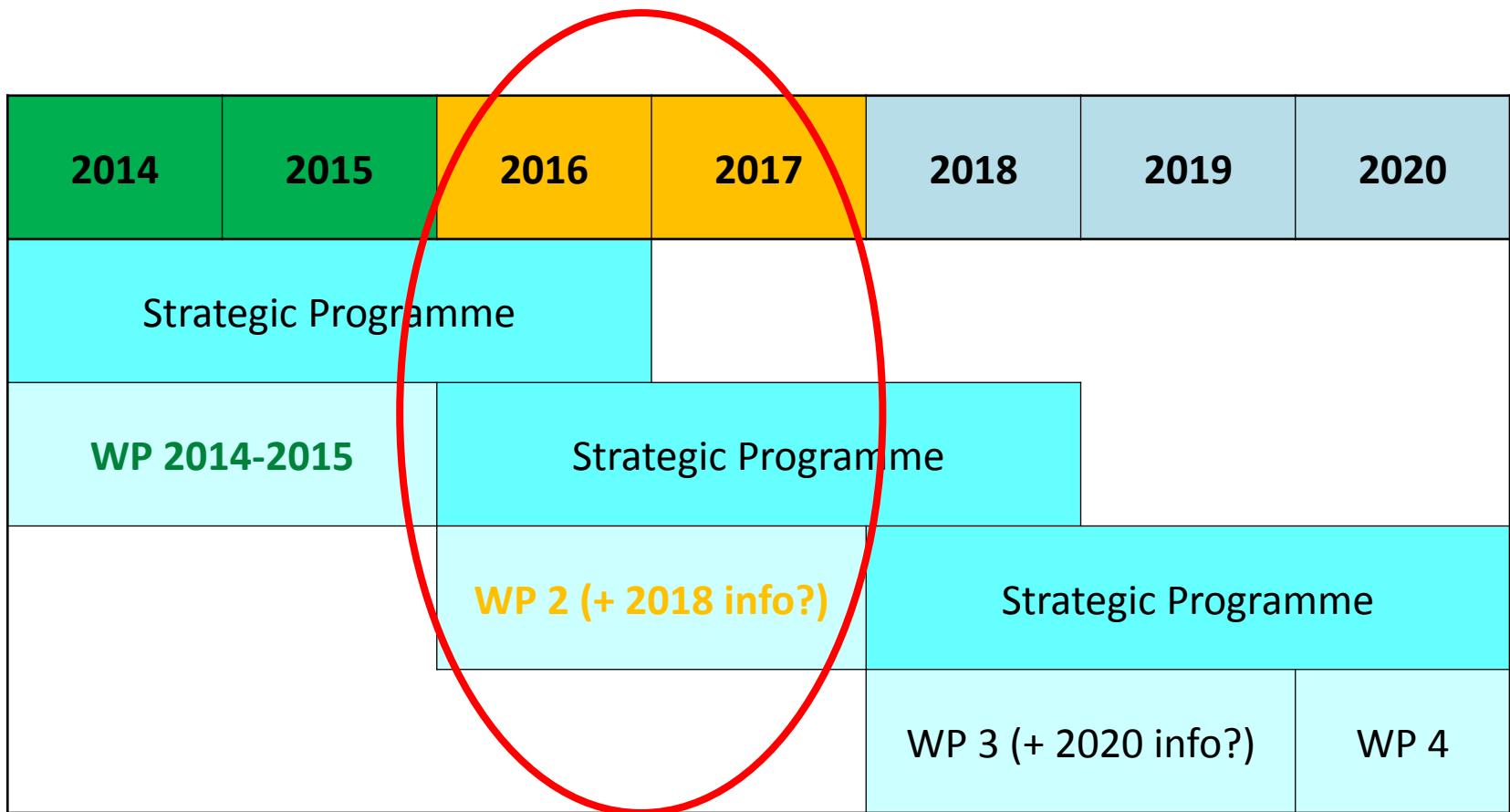
H2020-Reto Social 5

- Objetivos
- Programa de Trabajo 2014-2015
- Algunos detalles del Programa de Trabajo
- De las propuestas

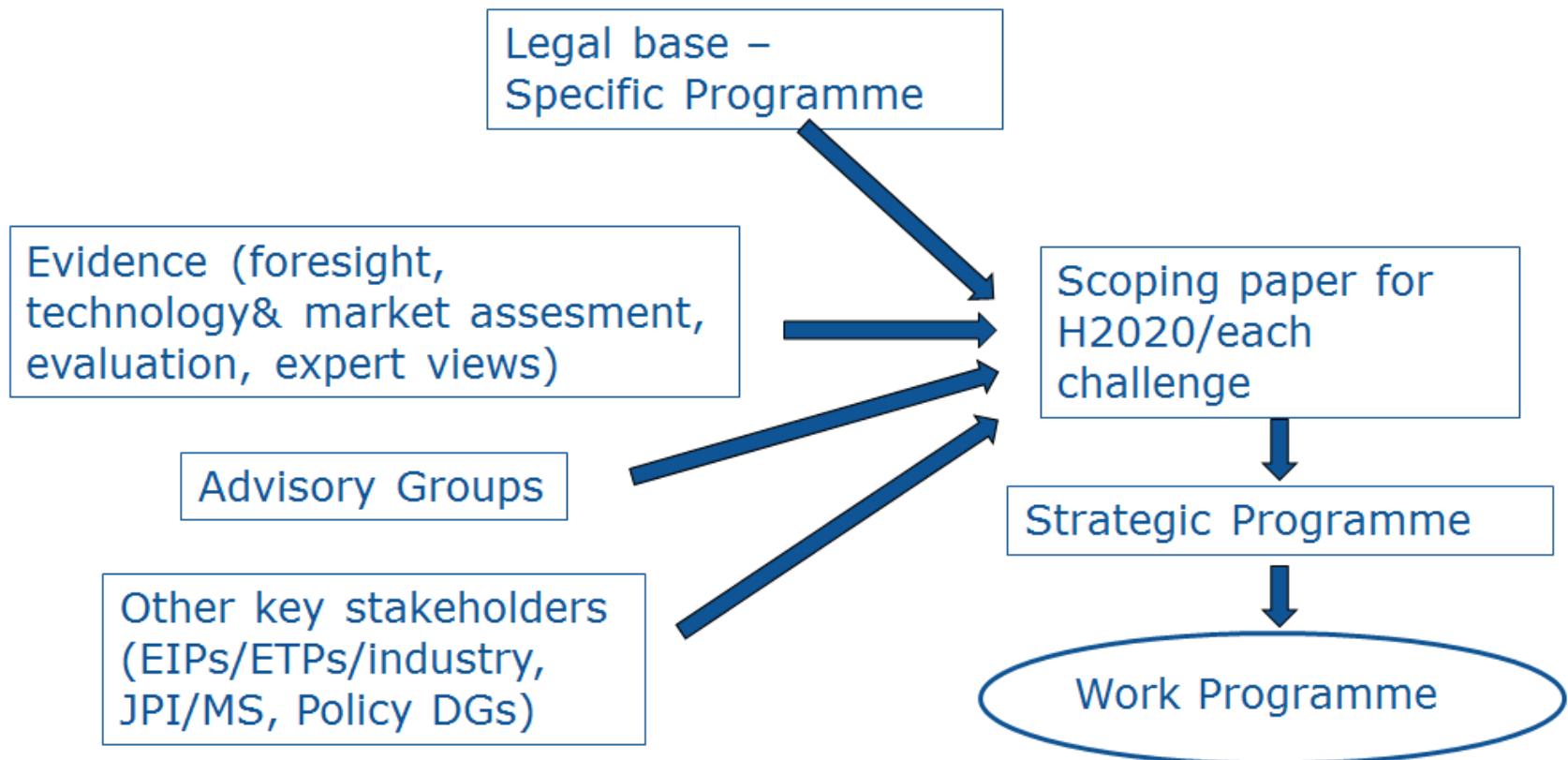
Y de cara al futuro.....

**Apoyo a la participación
Conclusiones**

H2020 – Programas de Trabajo



Identification of future priorities



HORIZON 2020

20/02/2015

Reto Social 5 – Programa de Trabajo 2016-2017

Work Programme 2016-2017	Timing(draft)
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

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>

Consultas Pùblicas

➤ Call for Ideas – Pilot /Demonstration projects

Objetivos → help identifying which research and innovation areas attract most interest from innovators and innovation users and stimulate developers and providers of innovative solutions to engage in projects of greater ambition in terms of scope, scale and impact.

Areas → 1. Systemic eco-innovation for a circular economy; 2. Climate services; 3. Nature-based solutions; 4. Water

-Raw Materials.- Ya cubierto a través de la “call for commitments”-

Deadline → 28 Febrero 2015

➤ EU survey on “Earth observation in a global context”

Objetivos → EC is actively seeking contributions by all those in Europe interested in the global context of Earth observation in order to help:

- estimate general awareness of and stance on Earth observations (EO), GEO and GEOSS;
- appreciate how to maximize EU benefits from an increased EO coordination through GEO;
- collect views on a set of possible actions at EU level in the field of global EO and GEO.

Deadline → 20 Abril 2015

➤ Survey on Research & Innovation Activities Related to Raw Materials

Objetivos → The purpose of the analysis is to: identify potential implementation gaps; find ways to overcome fragmentation and streamline instruments & initiatives.

The results will be summarised in the SIP Implementation Document (Rev.).

Deadline → 11 Marzo 2015

H2020 – Reto Social 5

Preparación Programa de Trabajo 2016-2017



HORIZONTE 2020

H2020-Reto Social 5

- **Objetivos**
- **Programa de Trabajo 2014-2015**
- **Algunos detalles del Programa de Trabajo**
- **De las propuestas**

Y de cara al futuro.....

Apoyo a la participación

Conclusiones

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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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

Ayuda CDTI

APC, Ayuda a la Presentación de Propuestas

Ayuda a la Preparación de Propuestas para **Acciones de Investigación e Innovación, Acciones de Innovación y Acciones del Instrumento PYME en fase II**, (en las áreas gestionadas por CDTI).

- Ayuda sólo **reembolsable si el proyecto es financiado** (máx. dos ayudas por empresa en todo el período de vigencia H2020)
- Tipo fijo euribor hasta 50.000 €. Ayuda escalonada en función del presupuesto y tipo de participación.
- Requisitos:
 - Empresa
 - No haber recibido APC en cuatro años anteriores a solicitud.
 - Al menos 200.000 € presupuesto (PYME) o 500.000 € presupuesto (Gran empresa).



[MÁS INFORMACIÓN](#)



Más Información

- Horizon 2020 (<http://ec.europa.eu/programmes/horizon2020/>)
- esHorizonte2020 (www.eshorizonte2020.es)
- [Guía del Participante en Horizonte 2020](#)
- [EIP de Agua](#) → Strategic Implementation Plan (SIP)
- [JPI de Agua](#) → Strategic Research and Innovation Agenda (SRIA)
- [EIP de Materias Primas](#) → SIP
- [IPR HelpDesk FactSheets](#)
- [Fact sheet: Gender Equality in Horizon 2020](#)
- User manuals for the PP services:
 - [Organisation registration - User Manual](#)
 - [SME self-assessment tool - User Guide](#)
 - [Submission Service - User Manual](#)



Más información (....y posibles socios)

- CORDIS - EU research projects under FP7, 2007-2013 (<https://open-data.europa.eu/en/data/dataset/cordisfp7projects>)
- InfoDay H2020-SC5 Calls 2015 (17/11/2014)
- Jornada Informativa Reto Social 5 (02/12/2014)
- EIP on Raw Materials High Level Conference and Horizon 2020 Brokerage Event on Raw Materials (13-14/01/2015)
- Action Groups EIP-Water y el “On-line Market Place”
- Commitments EIP-Raw Materials

.....otros

HORIZONTE 2020

H2020-Reto Social 5

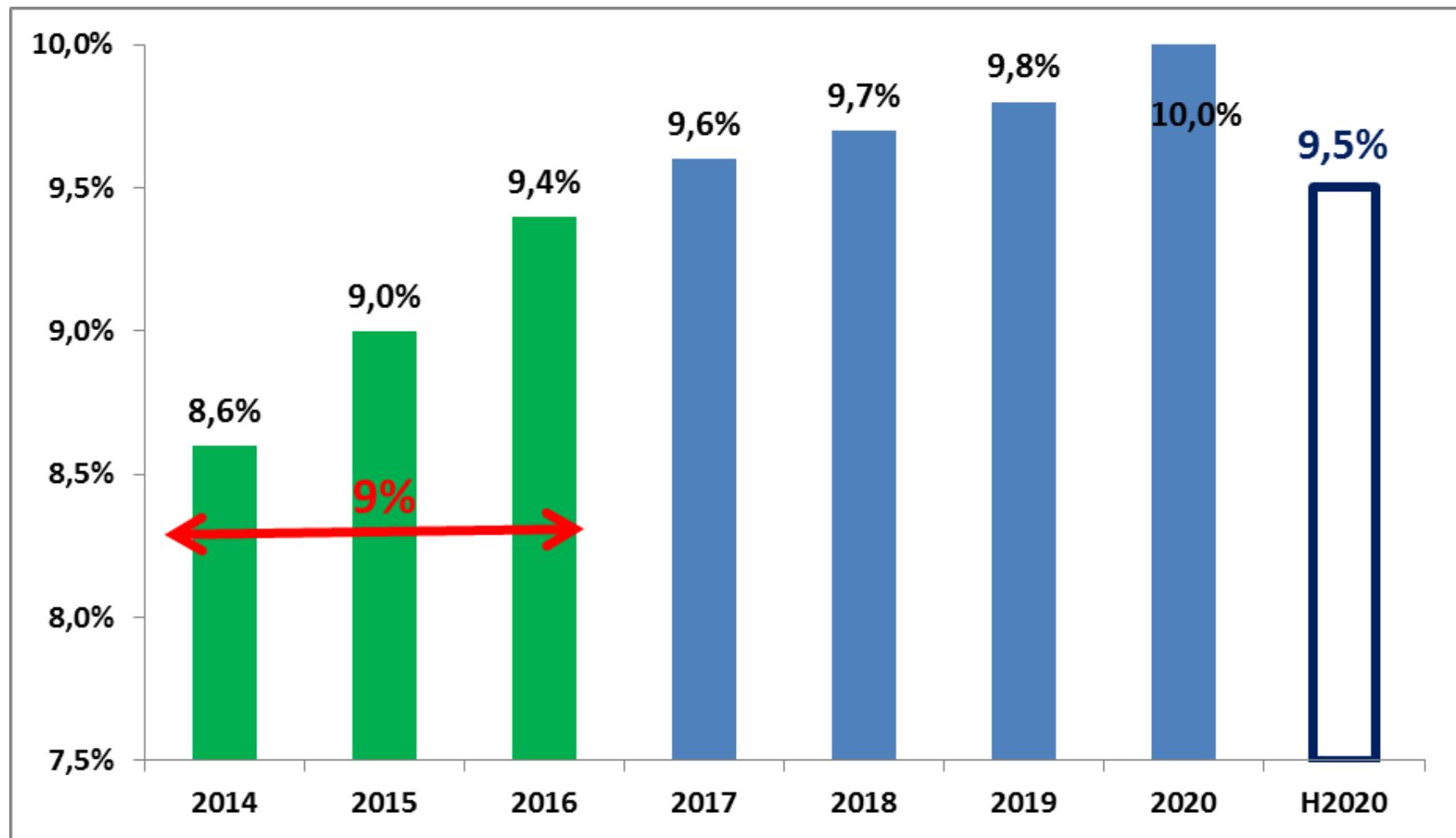
- Objetivos
- Programa de Trabajo 2014-2015
- Algunos detalles del Programa de Trabajo
- De las propuestas

Y de cara al futuro.....

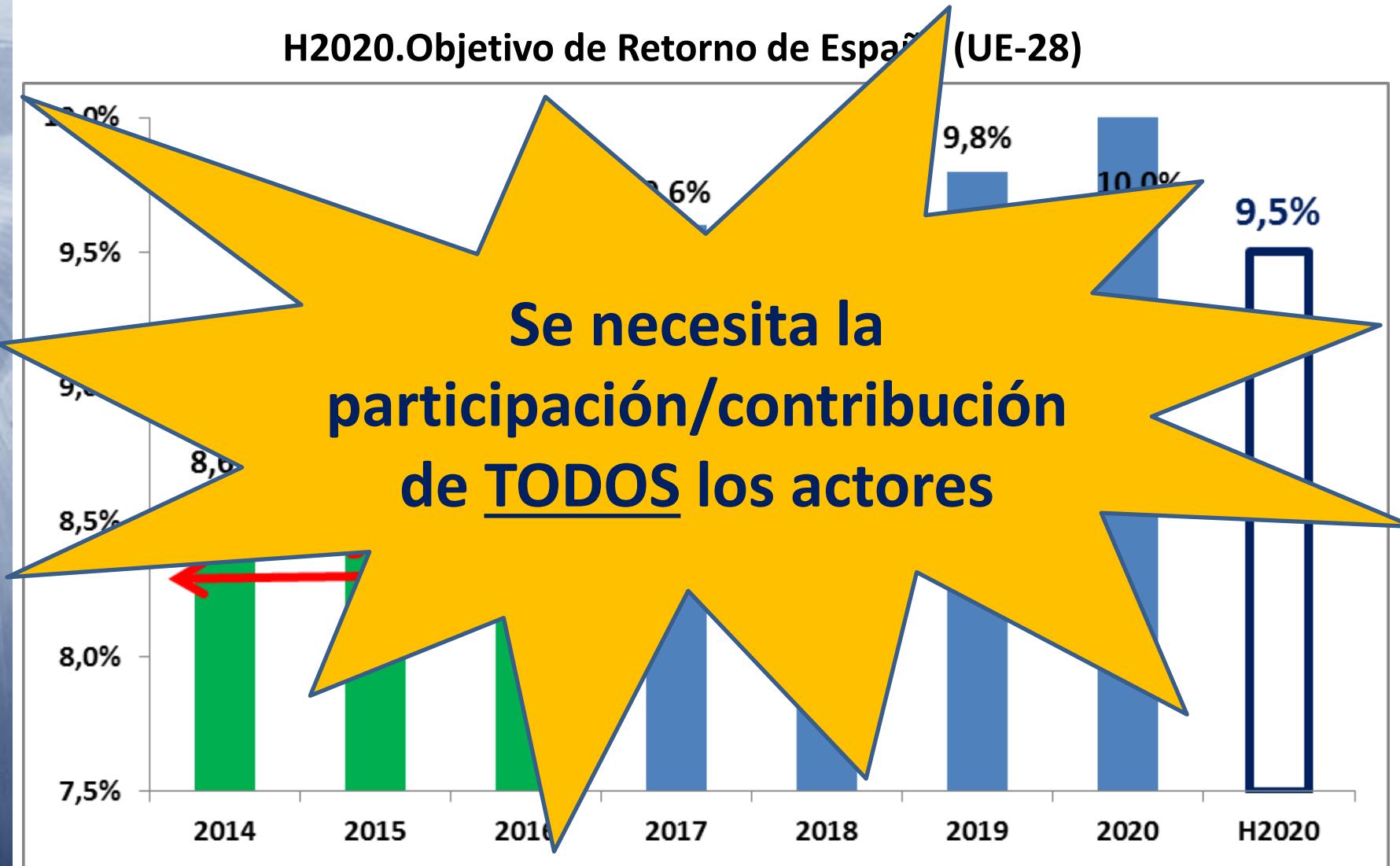
Apoyo a la participación
Conclusiones

Conclusiones

H2020.Objetivo de Retorno de España (UE-28)



Conclusiones



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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20/02/2015



Anexos

- **Tipos de Acción = Instrumentos**
- **Reto Social 5 – Líneas de Actividad 2014-2020**
- **Reto Social 5 – Iniciativas y Referencias**
- **Sinergias con otros fondos**
- **Pilot on Open Research Data**

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

* http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/annexes/h2020-wp1415-annex-ga_en.pdf

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% (excepto for “non profit”)

- ## Acciones hasta 100%
- Coordinación (consorcio)
 - Apoyo (puede ser individual)

Convocatorias ordinarias - Compra pública

**Pre-Commercial
Procurement = PCP**

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**

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



© Fotolia.com

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

20/02/2013

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. Let's

Internet | Modo protegido: desactivado

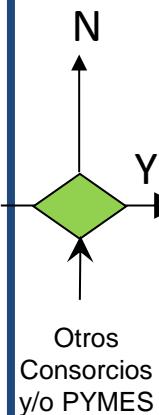
<http://www.vaccinestoday.eu/vaccines/wanted-better-way-transport-vaccines/>

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

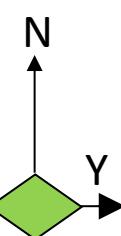
Fase 2:

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”



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)

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!).



Tipos de Acción - Convocatorias ordinarias

Research and
Innovation Action

Innovati:

and
(CSA)

“Instrumentos” de financiación dentro de los
Programas de Trabajo

Achievement Prize

and

SME instrument

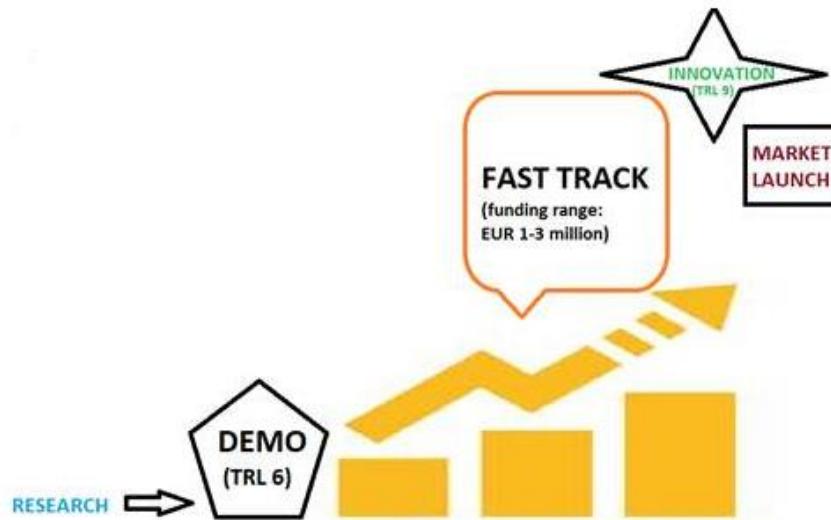
Fast Track to
Innovation*
(2015)

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

Fast Track to Innovation Pilot

Main policy drivers behind the scheme...

- Reduce time from idea to market ('last push')
- Increase participation of industry, first-time applicants, SMEs
- Stimulate private sector investment in R&I



Fast Track to Innovation Pilot

THE ULTIMATE BOOST FOR OUTSTANDING BUSINESS INNOVATORS WITH A NEED FOR SPEED...

PREPARE YOUR PROPOSAL

Build your industry-intensive consortium*
minimum 3 partners - maximum 5 partners
(all based in the EU and / or in Horizon 2020
associated countries)

Proposal



Outstanding Business Innovation Concept
(high-readiness level / TRL 6, meaning
demonstrated in a relevant environment)

Continuous open call
until end 2016

6 months time-to-grant

DEVELOP YOUR INNOVATION

Receive an EU grant of EUR 1 million to 3 million
(70% of funding, 100% of funding for non-profit entities)

From Mature R&D
Demonstration
Market-Oriented
R&D
to Market-Mature Innovation

12-24 months for implementation



HIT THE MARKET!

Start your commercial activities



The Market
Market-Maturity to Market
Launch



Market-ready result
(finished product, service,
process/ TRL 9)

At most 36 months from grant to market

*In a consortium with 3 or 4 partners, at least 2 should be industry, and in a consortium with 5 partners, at least 3; alternatively at least 60% of the project budget should be allocated to industry (i.e. private for profit entities)

... AND EAGER TO COMPETE ON GLOBAL MARKETS...!

ACTIVITIES SUPPORTED

Systems validation in real working conditions – Testing – Piloting – Business model validation – Standard setting – Pre-normative research – EU quality label

Fast Track to Innovation Pilot

- ✓ Acelerar la llegada a **mercado** de las **ideas/soluciones innovadoras**
- ✓ “**Bottom-up**”, cubriendo todas las temáticas de LEIT y SC
- ✓ **Consorcio:** máx 5 socios y foco en la participación **empresarial**
 - Mín el **60% del presupuesto** total tiene que corresponder a **socios empresariales**
 - O **número mínimo de socios industriales** tiene que ser de 2 en un consorcio de 3 - 4 socios, y de 3 si el consorcio cuenta con 5 socios.
- ✓ **Contribución EU:** hasta 3M€ por proyecto (1-2 M€ media)
- ✓ Condiciones de “**Innovation Action**”: 70% (except for “non-profit” organizations)
- ✓ **La propuesta** tiene que reflejar **un business plan**.
- ✓ El criterio de **Impacto** cobra especial importancia (como en el resto de acciones de innovación) y se evaluará en primer lugar.
- ✓ **Open call** con tres fechas de corte al año
- ✓ “**Time to grant**” no superando los 6 meses



RESEARCH & INNOVATION

Participant Portal

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Fast Track to Innovation Pilot

H2020-FTIPilot-2015-1

06-01-2015

23-07-2014

Total Call Budget

€100,000,000

Status

[Open](#)

Deadline Date 01-12-2015 17:00:00 (Brussels local time)

Cut-off date(s) 29-04-2015 17:00:00 (Brussels local time)

01-09-2015 17:00:00 (Brussels local time)

Main Pillar

Industrial Leadership

Topic: Fast Track to Innovation Pilot

FTIPilot-1-2015

[Topic Description](#)[Topic Conditions & Documents](#)[Submission Service](#)

Specific challenge: Innovation is fostered when new ideas can emerge and easily translate into socio-economic value. Working together, partners with complementary backgrounds, knowledge and skills, and in new and established value-chains, can turn these ideas into sustainable innovative products, processes and services that both address societal challenges and/or are highly competitive in global markets. FTI aims to accelerate this commercialisation process by providing extended funding opportunities through an open and agile scheme nurturing bottom-up ideas from innovative constituencies across Europe.

Scope: The FTI pilot supports projects undertaking innovation from the demonstration stage through to market uptake, including stages such as piloting, test-beds, systems validation in real world/working conditions, validation of business models, pre-normative research, and standard-setting. It targets relatively mature new technologies, concepts, processes and business models that need a last development step to reach the market and achieve wider deployment. To this end, if a proposal involves technological innovation, the consortium must declare that the technology or the

FTI.- Más Información



- **FTI Programa de Trabajo**
(http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/main/h2020-wp1415-fast-track_en.pdf)
- **Fast Track to Innovation Launch Event, 09/01/2015**
(<https://scic.ec.europa.eu/streaming/index.php?es=2&sessionno=2e9777b99786a3ef6e5d786e2bc2e16f>)
- **Fast Track to Innovation – FAQs**
(http://ec.europa.eu/research/participants/portal/doc/call/h2020-h2020-ftipilot-2015-1/1642601-faq_fti_pilot_consolidated_17feb2015_en.doc)
- **FTI – Plantillas de propuestas**
(http://ec.europa.eu/research/participants/data/ref/h2020/other/call_ptef/pt/h2020-call-pt-ia-fti-pilot_en.pdf)

ANEXO

- **Reto Social 5 – Líneas de Actividad 2014-2020**

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 dar 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.

Raw Materials
Alternate
Recycle
Extract

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.

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.

ANEXO

- **Reto Social 5 – Iniciativas y Referencias**

H2020

Hay que tener en cuenta que:

- **H2020 cambia significativamente con la proliferación de grandes iniciativas** que pudieran tener normas de funcionamiento diferenciadas y reducirían las convocatorias abiertas y competitivas.
Como mínimo: «**influyen**» en la redacción de los Programas de Trabajo.

Iniciativa	Alcance	Protagonistas	Apertura	Gestión €
EIP European Innovation Partnership	IDT+ Inn+ CPI+ Regulación ...	CE, países, RTD, PT industria, usuarios		«Etiquetas» VIP
JPI Joint Programming	Inv. (algo Innov.)	Países/ gestores PN		Países
PPP Public Private Partnerships	Tecnológico	Industrias	Open	CE
JTI Joint Technology	Tecnológico	Industrias	Club	Autónoma
European Research Alliances	Investigación	Centros Investigación	Semi	Autónoma

Reto Social 5 \longleftrightarrow EIPs

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 ENVIRONMENT

European Commission > Environment > Water > EIP

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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 for opportunities to share 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

Home | About | Commitments | Funding Opportunities | Members | Publications | Forum | Meetings | News | Search |

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.

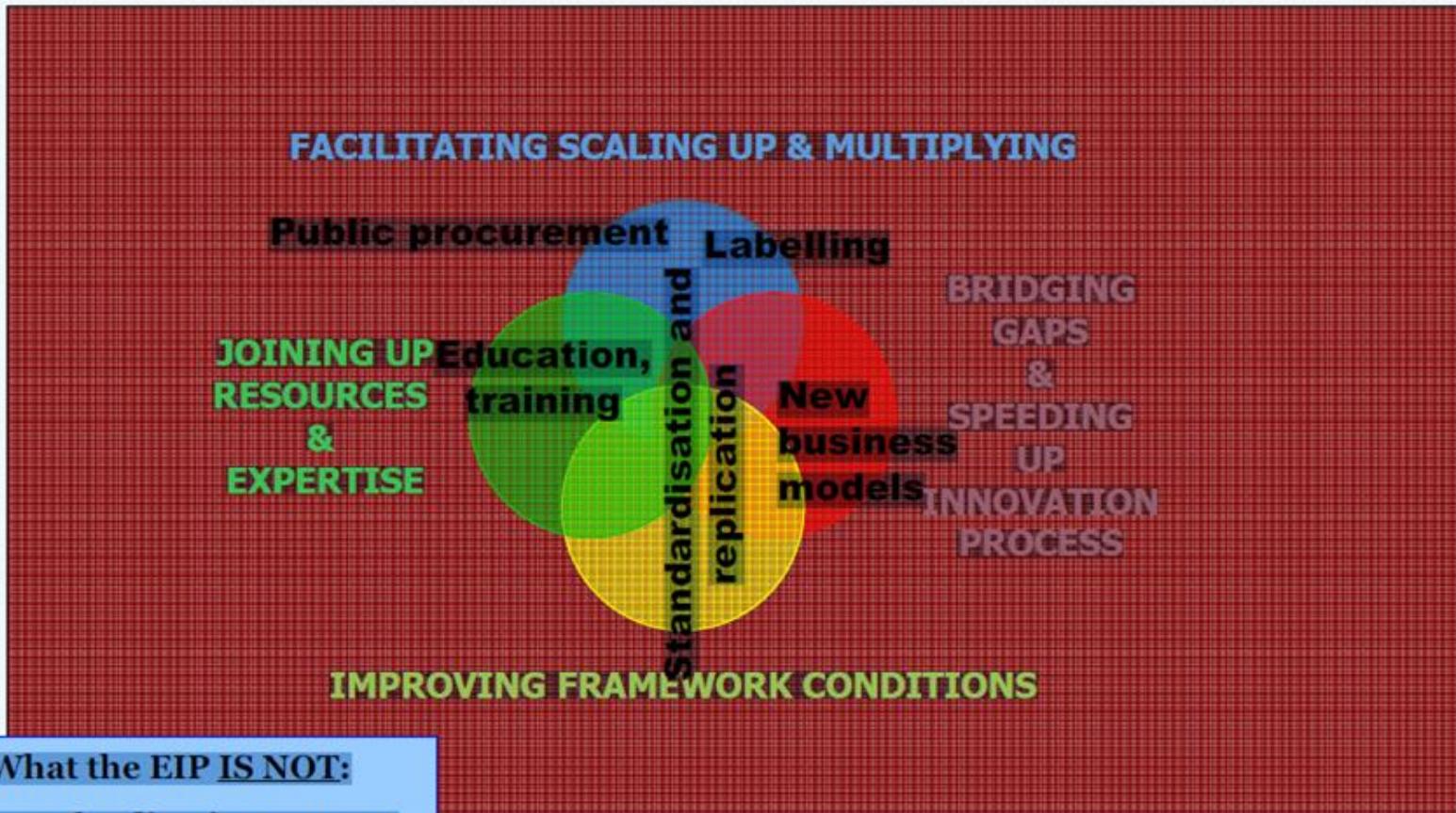
The ultimate aim of the EIP on Raw Materials is to help raise **industry's contribution to the EU GDP to around 20% by 2020**. It will also play an important role in meeting the objectives of the flagship European Commission initiatives 'Innovation Union' and 'Resource Efficient Europe'. It will do this 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
Other language versions: EN DE FR ES PL IT

20/02/2015





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.

Reto Social 5 \longleftrightarrow JPIs



Water challenges for a changing world

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www.waterjpi.eu



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



CULTURAL HERITAGE
A CHALLENGE FOR EUROPE

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www.jpi-culturalheritage.eu



Search

Healthy and Productive Seas and Oceans

www.jpi-oceans.eu

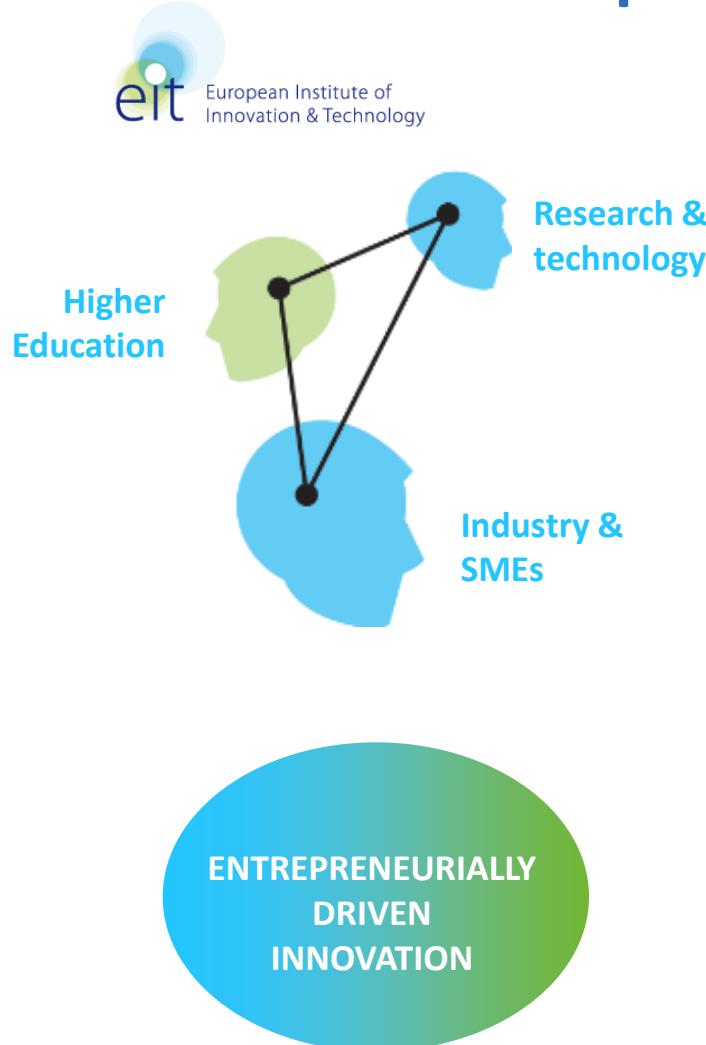
20/02/2015



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 ERA-Net (o Art. 187) los proyectos de esas convocatorias conjuntas.

EIT, Instituto Europeo de Innovación y Tecnología



**El presupuesto del EIT en H2020
será 2.700 M€**

EIT → Las Comunidades de Conocimiento e Innovación (KIC)

- _ Asociaciones creativas y altamente integradas que abarcan la educación, tecnología, investigación, negocios y la iniciativa empresarial.
- _ Están diseñadas para introducir innovaciones y modelos de innovación, así como para inspirar a otros a emularlas.

- KICs existentes:
 - Climate KIC
 - INNO ENERGY KIC
 - ICT Labs
 - Health
 - Raw Materials



- Futuras
 - *Added Value Manufacturing??*
 - *Food4Future??*
 - *Urban Mobility??*
- } Convocatoria 2016
- } Convocatoria 2018

PPP SPIRE



Sustainable Process Industry through
Resource and Energy Efficiency



HOME > ABOUT US > www.spire2030.eu > MEMBERS' PORTAL >



SEARCH...



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



20/02/2015



European Climate Research Alliance - ECRA

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ECRA
European Climate Research Alliance

Navigator

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Collaborative Programmes
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Useful links

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Password
Remember Me Log in
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

20/02/2015



CDTI Centro para el
Desarrollo
Tecnológico
Industrial

BONUS,

Science for a better future of the Baltic Sea region (Art. 185)

The screenshot shows the BONUS website's front page. At the top left is the BONUS logo with the tagline "SCIENCE FOR A BETTER FUTURE OF THE BALTIC SEA REGION". The background features a green map of the Baltic Sea region. On the right side, there are social media links for Facebook and Twitter, a search bar, and navigation links for "Contact us", "E-bulletin", and "BONUS logo". Below the header, a breadcrumb trail reads "Front page > About BONUS".

ABOUT BONUS
Science for a better future of the Baltic Sea region

VISION

Economically and ecologically prosperous Baltic Sea region where resources and goods are used sustainably and where the long-term management of the region is based on sound knowledge derived from multidisciplinary research.

OBJECTIVE

BONUS integrates the Baltic Sea system research into a durable, cooperative, interdisciplinary and focused multinational programme in support of the regions sustainable development:

Copyright: Anu Hirvonen, Ilkka Lastumäki, Rodeo.o, SYKE

www.bonusportal.org

BONUS 2010-2016

About BONUS

- BONUS Secretariat (EEIG)
- Steering Committee
- Members and funders
- Advisory Board
- BONUS Forum
- Forum of Project Coordinators
- BONUS+ and ERA-NET
- Frequently asked about BONUS
- Young Scientist Club

BONUS projects

For policymakers

For researchers

Events

News room

Publications

Policy and other links

For members of the public

BONUS Extranet login

20/02/2015



Environment Action Programme to 2020



Living well, within
the limits of our planet

*Proposal for a general Union
Environment Action Programme*

The 7th Environment Action Programme (EAP) will be guiding European environment policy until 2020.

In order to give more long-term direction it sets out a vision beyond that, of where it wants the Union to be by 2050.

Environment Action Programme to 2020

7th EAP priority objectives



Eco-Innovation Action Plan



The screenshot shows the homepage of the Eco-innovation Action Plan. At the top, there's a navigation bar with links for 'A to Z | About', 'European Commission', 'ENVIRONMENT', 'Eco-innovation Action Plan', and 'European Commission > Environment > Eco-innovation Action Plan'. Below this is a green navigation bar with links for 'Home', 'Who's who', 'Policies', 'Integration', 'Funding', 'Law', 'Resources', 'News & Developments', and a search bar. The main content area features a large logo for 'EcoAP for a sustainable future' with a stylized orange and green swirl graphic. Below the logo, it says 'Putting eco-innovation at the heart of European policies.' and lists 'The 7 actions of EcoAP' and 'EcoAP in the EU countries'. A green arrow points downwards from this section towards the list of actions.

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

- 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

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](#)
-

ANEXO

- Sinergias con otros fondos**

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

Al principio de las “calls”: Waste, Water y general SC5

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 solutions resulting from projects e.g. through public procurement for innovative solutions. To indicate which interested regions/countries identified for contact during the project.”



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

20/02/2015

European Regional Development Fund



ERDF thematic concentration



Research and Innovation



ICT



SMEs competitiveness

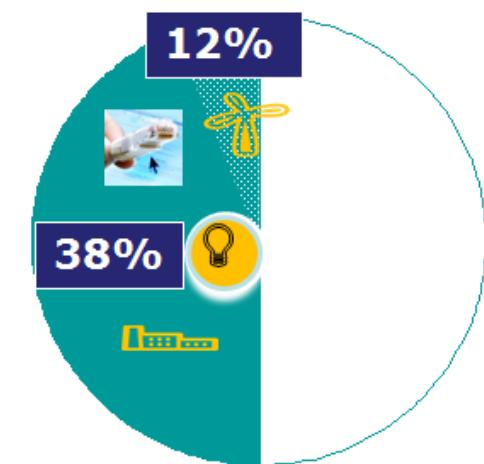
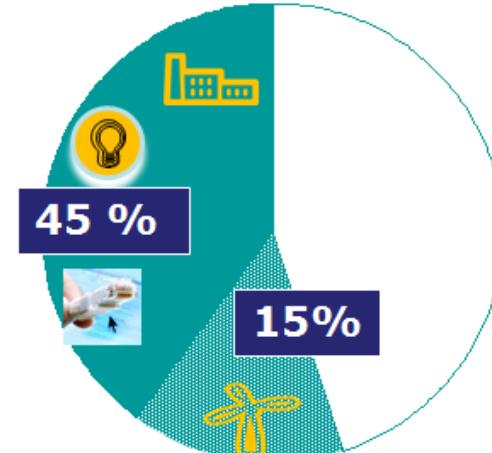
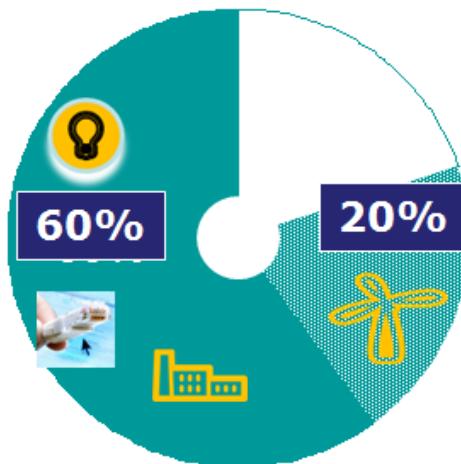


Low-carbon economy (energy efficiency and renewable energy)

More developed regions

Transition regions

Less developed regions



WP 2014-2015 _ Sinergias con otros fondos

FAQ

- Additional funding from ESIF **is not an evaluation criterion**. But it demonstrates business planning and thinking above and beyond the project, which **will be favourably seen in the evaluation of the “impact” criterion**.
- The **additional funding is not limited to ESIF**. Other possibilities include private industry funding, bank funding, national funding programmes etc.
- The H2020 project evaluation will look at the project as an independent entity at its own merits.
- **Synergies should be explained in the exploitation and business plan sections of the project proposal**
- The **exploitation plans can be further developed during the project duration, but** at the time of submission the proposer should already have a **clear indication of the possibilities**, going beyond mere checking online that a specific programme etc. exists.
- For most projects it would be more realistic to think in terms of subsequent projects, for example taking up exploitation activities of a H2020 project with ESIF funding.
- The Eye@RIS3 is only an indicative tool to start looking for which region might have an appropriate priority in their Smart Specialisation Strategy.

ANEXO

- Pilot on Open Research Data**

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

Al principio de las “calls”: Waste, Water y general SC5

Pilot on Open Research Data

“The projects funded under Societal Challenge 'Climate action, environment, resource efficiency and raw materials, callof the Work Programme 2014-15, (withsome exceptions) , will participate in the Pilot on Open Research Data in Horizon 2020

Projects have the possibility to opt out of the Pilot.

A further new element in Horizon 2020 is the use of Data Management Plans (DMPs), detailing what data the project will generate, whether and how it will be exploited or made accessible for verification and re-use, and how it will be curated and preserved. The use of a Data Management Plan is required for projects participating in the Open Research Data Pilot.

Other projects are invited to submit a Data Management Plan if relevant for their planned research...”

Open Access

- Es **obligatorio** para los beneficiarios de H2020 **depositar en abierto todas las publicaciones científicas** que se elaboren en el marco de la investigación financiada por este programa.
- Además, la CE ha lanzado un **piloto** que afecta a 6 áreas de conocimiento que hace **obligatorio el depósito en abierto de los datos de investigación producidos** en el marco de los proyectos.

Pilot on Open Research Data

Total or partial opting out of the Pilot Action on Open Research Data.

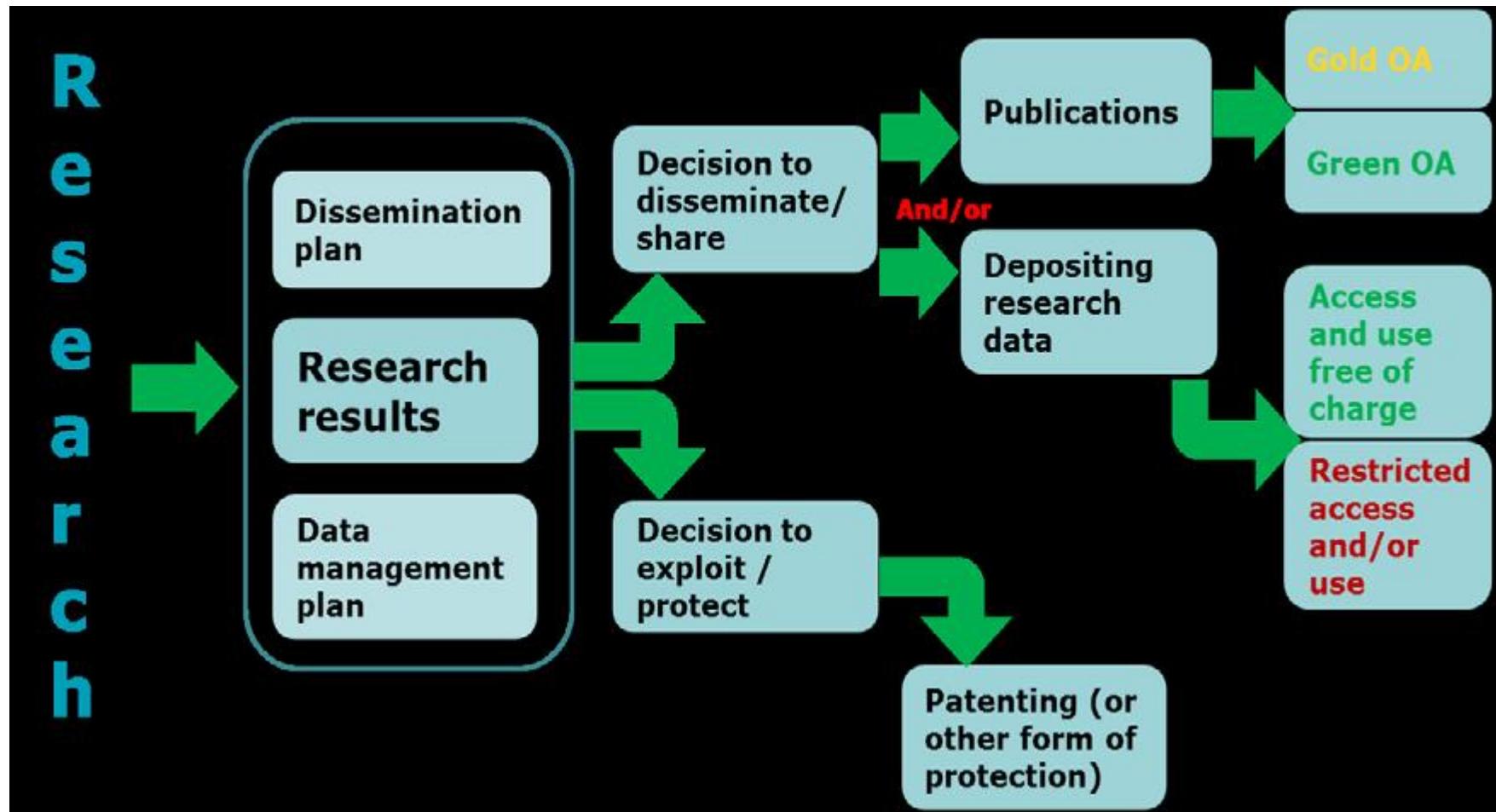
Projects may at any stage opt out of the Pilot for a variety of reasons, namely:

- if participation in the Pilot on Open Research Data is incompatible with the Horizon 2020 obligation to protect results if they can reasonably be expected to be commercially or industrially exploited;
- if participation in the Pilot on Open Research Data is incompatible with the need for confidentiality in connection with security issues;
- if participation in the Pilot on Open Research Data is incompatible with existing rules concerning the protection of personal data;
- if participation in the Pilot on Open Research Data would jeopardise the achievement of the main aim of the action;
- if the project will not generate / collect any research data;
- if there are other legitimate reason to not take part in the Pilot (at proposal stage – free text box provided).

At the proposal submission stage, the information provided is **not** part of the evaluation. Proposals will not be evaluated more favourably because they are part of the Pilot and will not be penalised for opting out of the Pilot.

Pilot on Open Research Data

Graph: Open access to scientific publication and research data in the wider context of dissemination and exploitation



Open Access

Guidelines on Open Access to Scientific Publications and Research Data

(http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-pilot-guide_en.pdf)

Guidelines on Data Management

(http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf)