



JORNADA INFORMATIVA: EL AGUA EN EUROPA
MURCIA, 7 DE MAYO DE 2015

AGUA, INVESTIGACIÓN E INNOVACIÓN HORIZONTE 2020

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Punto Nacional de Contacto
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



Agua – H2020

- Contexto: H2020
- En 2014 – 2015
- Y de cara al futuro2016-2017???
- Información y apoyo

Conclusiones

AGUA: Investigación e Innovación en Europa

EIP on WATER



Programas Nacionales



Water ERA-NETs



PPP SPIRE
Sustainable Process Industry



The European Water Platform



y otras...

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Horizonte 2020

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



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



Ciencia excelente

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

 $\cong 32\%$

Plan Juncker
Liderazgo Industrial

1. Liderazgo en tecnologías facilitadoras e industriales
 - 1.1 Tecnologías de la información y la comunicación (TIC)
 - 1.2 Nanotecnologías, 1.3 Materiales avanzados y 1.5 Fabricación y transformación avanzadas
 - 1.4 Biotecnología
 - 1.6 Espacio
2. Acceso a la financiación de riesgo
3. Innovación en las PYME

 $\cong 22\%$ **17.016**

13.557
7.711
3.851
516
1.479
2.842
616

Retos sociales

1. Salud, cambio demográfico y bienestar
2. Seguridad alimentaria, agricultura y silvicultura sostenibles, investigación marina, marítima y fluvial y bioeconomía
3. Energía segura, limpia y eficiente
4. Transporte inteligente, ecológico e integrado
5. Acción por el clima, medio ambiente, eficiencia de recursos y materias primas
6. Sociedades inclusivas, innovadoras y reflexivas
7. Sociedades seguras

 $\cong 38\%$ **29.679**

7.472
3.851
5.931
6.339
3.081
1.309
1.695

Ciencia con y para la sociedad**Difundiendo la excelencia y ampliando la participación****Instituto Europeo de Innovación y Tecnología****11****1.903****Acciones directas no nucleares del Centro Común de Investigación (JRC)**

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).

H2020 - Reto Social 5

Acción por el clima, medio ambiente, eficiencia de los recursos y materias primas	3.081 M€
AGUA	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



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Reto Social 5 – Programa de Trabajo 2014-2015

Reto Social 5: Acción por el Clima, Medio Ambiente, Eficiencia de los Recursos y Materias Primas	Total Budget (M€) 2014-2020
	3.081

Reto Social 5 – Programa de Trabajo 2014-2015	Total Budget (M€)	2014 Budget (M€)	2015 Budget (M€)
Call - Waste: A Resource to Recycle, Reuse and Recover Raw Materials	131	73	58
Call – Water Innovation: Boosting its value for Europe	163	67	96
Call - Growing a Low Carbon, Resource Efficient Economy with a Sustainable Supply of Raw Materials	351	166	185

Reto Social 5 – Programa de Trabajo 2014-2015

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.



Call WATER INNOVATION, Boosting its value for Europe

TOPICS	EVALUATION TYPE	EC CONTRIBUTION Suggested (M€)	BUDGET 2014 (€MIO)	BUDGET 2015 (€MIO)
WATER-1-2014/2015. Bridging the gap: from innovative water solutions to market replication (Inn.): a) [2014] First application and market replication... b) [2015] Demonstration/pilot activities of.....	2-stage	2 – 4 (2014) 6 – 8 (2015)	39	45
WATER-2-2014/2015. Integrated approaches to water and climate change: a) [2014] Water cycle under future climate (R&Inn) b) [2015] Integrated approaches to food security, low-carbon energy, sustainable water management and climate change mitigation (R&Inn)	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 a) 2014 (CSA) b) 2015 → EIP –Water and EIP-Agri (CSA)	1-stage		5	6
WATER-5-2014/2015. Strengthening international R&I cooperation in the field of water (CSA) a) [2014] Strategic cooperation partnerships → China and India b) [2015] A coordination platform → Africa				
WATER-5-2014/2015. Strengthening international R&I cooperation in the field of water: c) Development of water supply and sanitation technology, systems and tools, and/or methodologies → non-EU Mediterranean countries and/or Africa (R&Inn)	2-stage	2 - 3		15

Y también.....

SC5-20-2014/2015: Boosting the potential of small businesses for eco-innovation and a sustainable supply of raw materials

Specific Challenge: Innovative SMEs have been recognised as being able to become the engine of the green economy and to facilitate the transition to a resource efficient, circular economy.....

This topic is targeted at **all types of eco-innovative SMEs in all areas addressing the climate action, environment, resource efficiency and raw materials challenge**,.... All kinds of promising ideas, products, processes, services and business models, notably across sectors and disciplines, for commercialisation both in a business-to-business (**B2B**) and a business-to-customer (**B2C**) context, are eligible.

Type of Action: *SME Instrument*

Y además.....

“Other parts of H2020 contributing to the objectives of this call”:

NMBP (2015)

INFRASTRUCTURES (2014/2015)

BIOECONOMY (2014/2015)

+ Fast Track to Innovation Pilot (2015)

Programa de Trabajo 2014-2015

- “Calls” 2014 y 2015
- Algunas EXCEPCIONES

Cerradas

SME Instrument (2015) (Open call with «cut-off» dates)	Phase 1	Phase 2
	18/03/2015	18/03/2015
	17/06/2015	17/06/2015
	17/09/2015	17/09/2015
	16/12/2015	16/12/2015
Fast Track to Innovation Pilot (2015) (Open call with «cut-off» dates)	2015	
		29/04/2015
		01/09/2015
		01/12/2015

Convocatorias Reto Social 5 - 2014

De la competencia....y los resultados

WP Call	Indicative Budget	Total budget requested (Proposals above threshold)	Nº of projects funded
WATER-2014, Single Stage	15.000.000	33	25
WASTE-2014, Single Stage	20.000.000	51	25
SC5-2014, Single Stage	73.000.000	77	46

$\cong 37,4\% \text{ del presupuesto Calls 2014}$

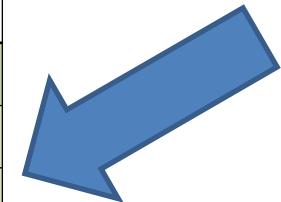
WP Call	Indicative Budget	2nd Stage				
		proposals submitted	threshold	Nº of proposals submitted	Nº of proposals above threshold	Total budget requested (Proposals above threshold)
WATER-2014, 2-Stage	52.000.000	139	52	51	38	13.638.259
WASTE-2014, 2-Stage	53.000.000	100	27	27	20	13.638.259
SC5-2014, 2-Stage	76.000.000	95	37	37	28	13.638.259

$\cong 62,6\% \text{ del presupuesto Calls 2014}$

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

Convocatorias – 2015.- De la competencia.....

WP Call	Indicative Budget (M€)	EU Contribution suggested (M€)	1st Stage
			Nº of proposals submitted
WATER-2015, 2-Stage topics	75		337
WATER-1b	45	6 _ 8	172
WATER-2b	15	6 _ 8	59
WATER-5c	15	2 _ 3	106
WASTE-2015, 2-Stage topics	54		313
WASTE-6a	30	8 _ 10	97
WASTE-6b	10	4 _ 5	33
WASTE-7	14	7	183
SC5-2015, 2-Stage topics	50		158
SC5-4	15	6 _ 8	59
SC5-7	15	5 _ 7	47
SC5-17	20	3 _ 5	52

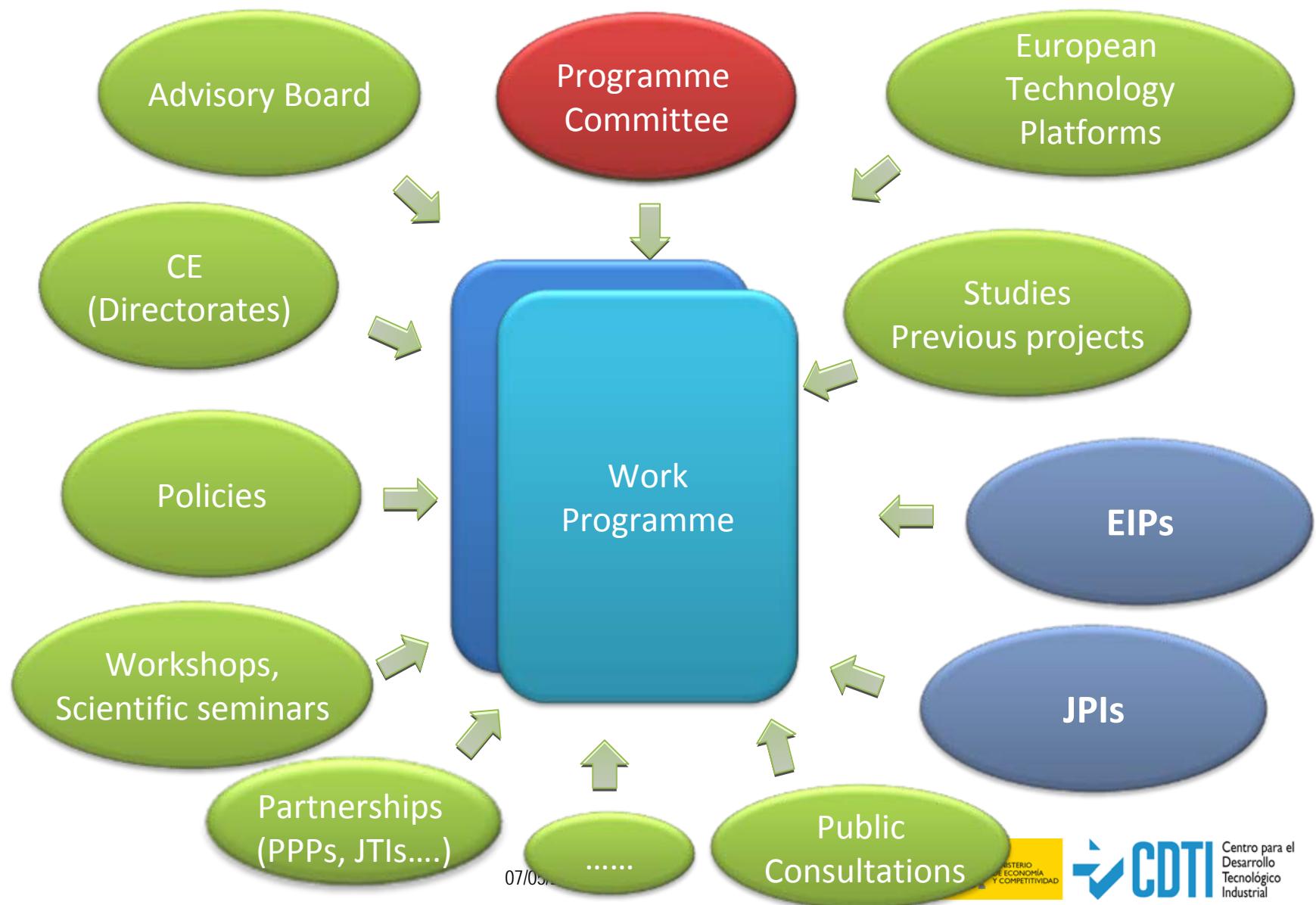


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H2020, Work Programme 2016-2017



Reto Social 5 – Programa de Trabajo 2016-2017

Cambios en la Implementación (en las “calls”)

PIEZAS PRINCIALES

- Systemic eco-innovation for a circular economy
- Climate Services
- Nature-based solutions and re-naturing
- Raw Materials



PRIORIDADES

- Earth Observation
- Water
- Cultural Heritage
- The Arctic



!!!!IMPORTANTE!!!!

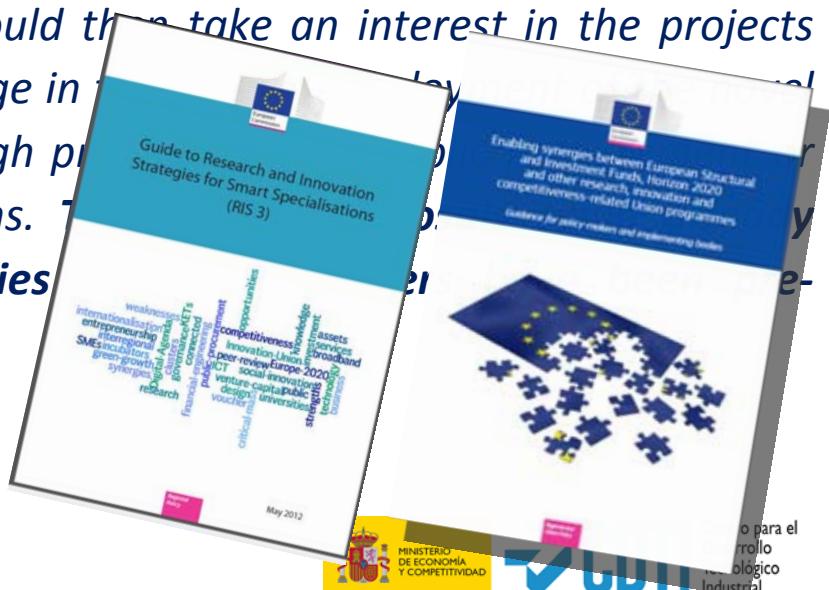


Reto Social 5 – Programa de Trabajo 2016-2017

En WP 2014-2015, ya aparecía al principio de las “calls”:

Sinergias con otros fondos

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



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

07/05/2015

Portal del participante

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

The screenshot shows the European Commission's Participant Portal homepage under the Research & Innovation banner. A red arrow points from the 'Participant Portal' link in the top navigation to a yellow box containing a list of user manuals for various services. A yellow double-headed arrow highlights the 'FAQ' link in the right sidebar, which is also enclosed in a red box.

RESEARCH & INNOVATION

Participant Portal

European Commission > Research & Innovation > Participant Portal > Home

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT

- 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

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

Horizon 2020 Helpdesk
Enterprise Europe Network
National Contact Points
Glossary
FAQ
IT Helpdesk
Other Help Services
Terms and Conditions

the
Innovation Programme (CIP)
act throughout its lifecycle

PERSONAL AREA INFORMATION AND SUPPORT

CDTI Centro para el Desarrollo Tecnológico Industrial

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€



TÍTULO

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

RETO ESPECÍFICO

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

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

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		4/5; 1
3. Implementation	3/5; 1		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

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Apoyo a la Participación



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

• Ayudas correspondientes a acciones de dinamización de carácter internacional, (Redes y Gestores, Centros Tecnológicos, Ayudas “cofund Marie Curie”, ...otras)

CCAA

• Algunas medidas específicas en algunas CCAA

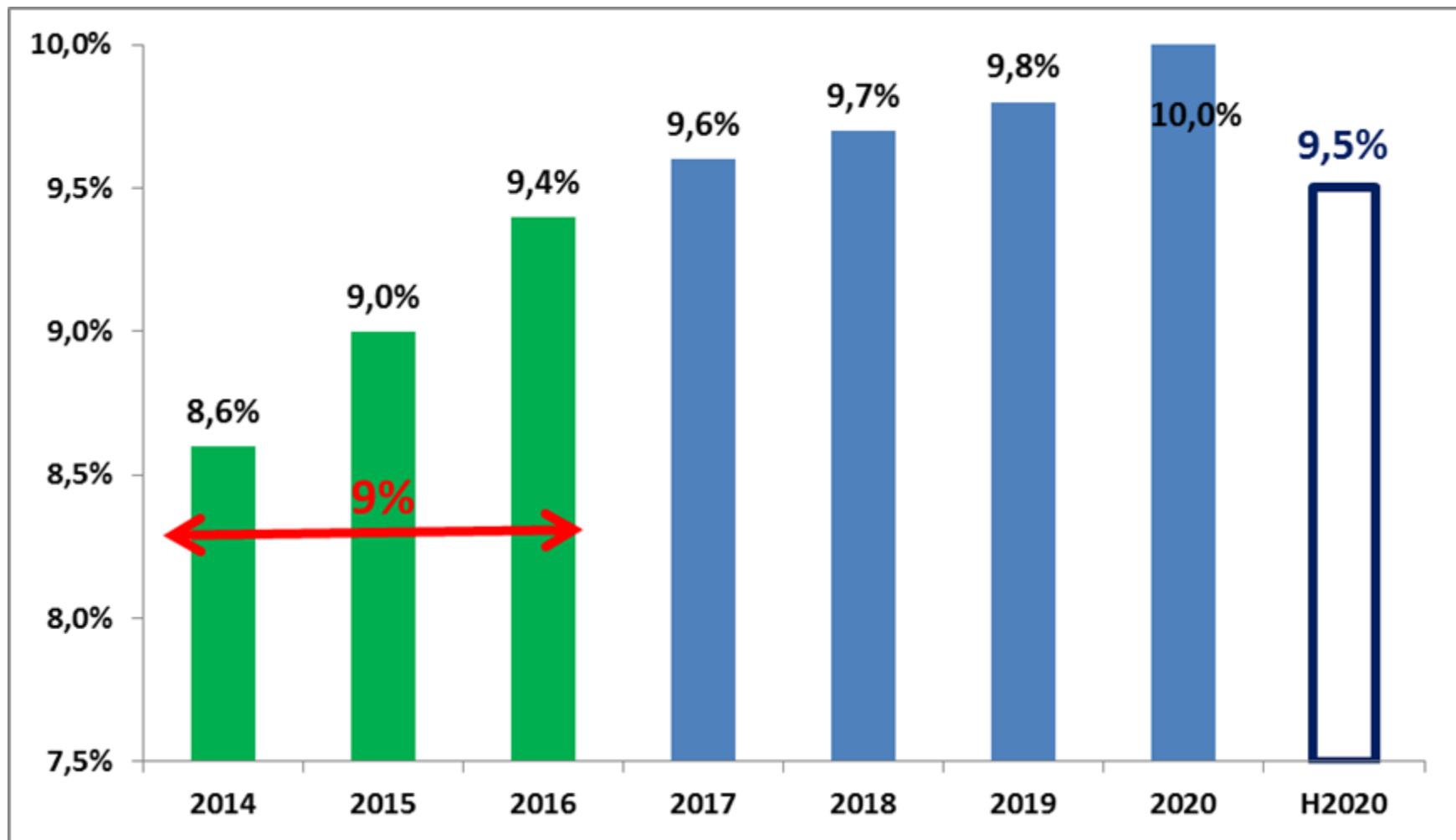
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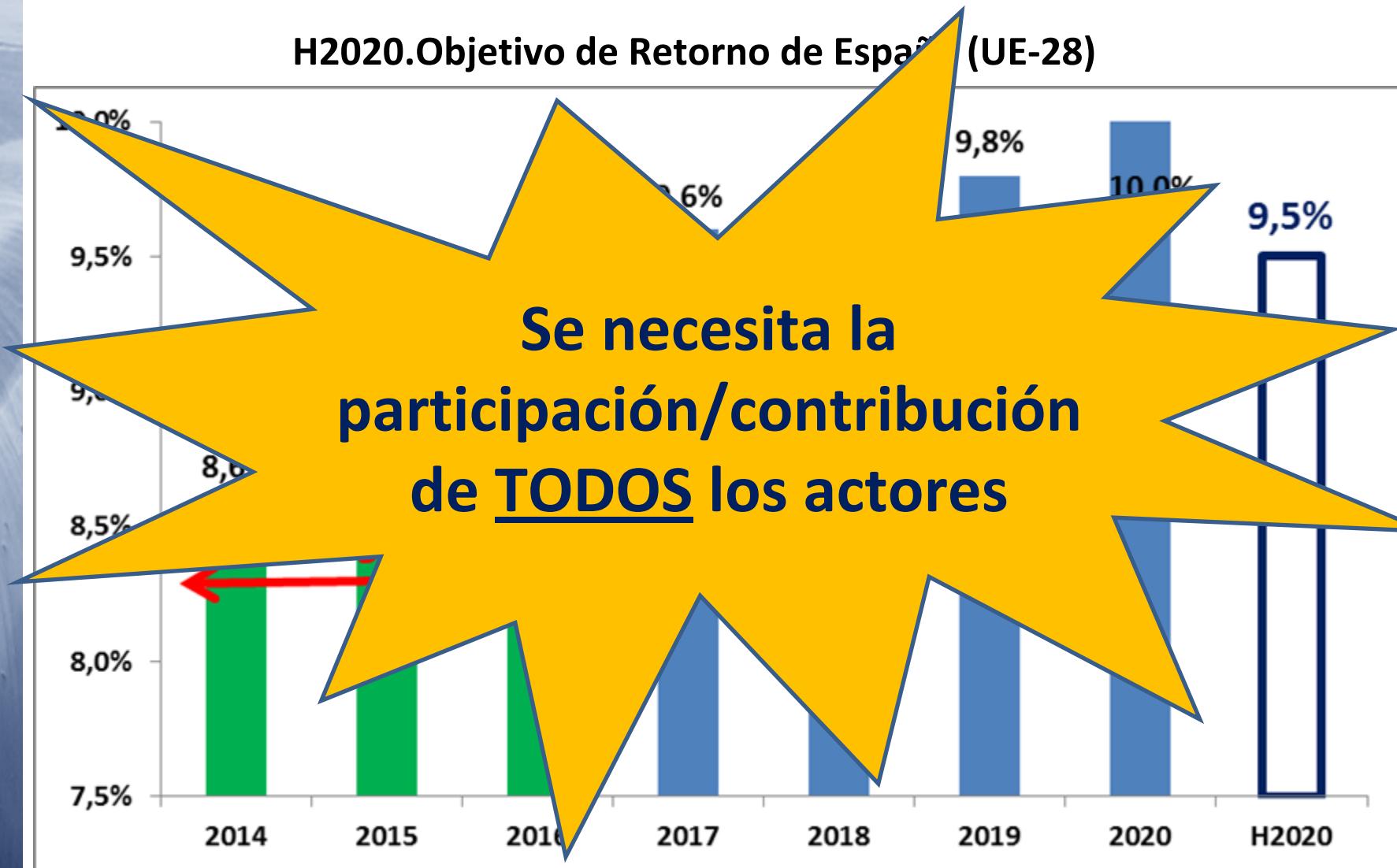
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H2020.Objetivo de Retorno de España (UE-28)



Conclusiones



Gracias por su atención

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