

#innovacion
#financiacion
#asesoramiento
#internacionalizacion



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CONVOCATORIAS 2019 RETO SOCIAL 5

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

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PNC Reto Social 5



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Portal español del Programa Marco de Investigación e Innovación de la Unión Europea

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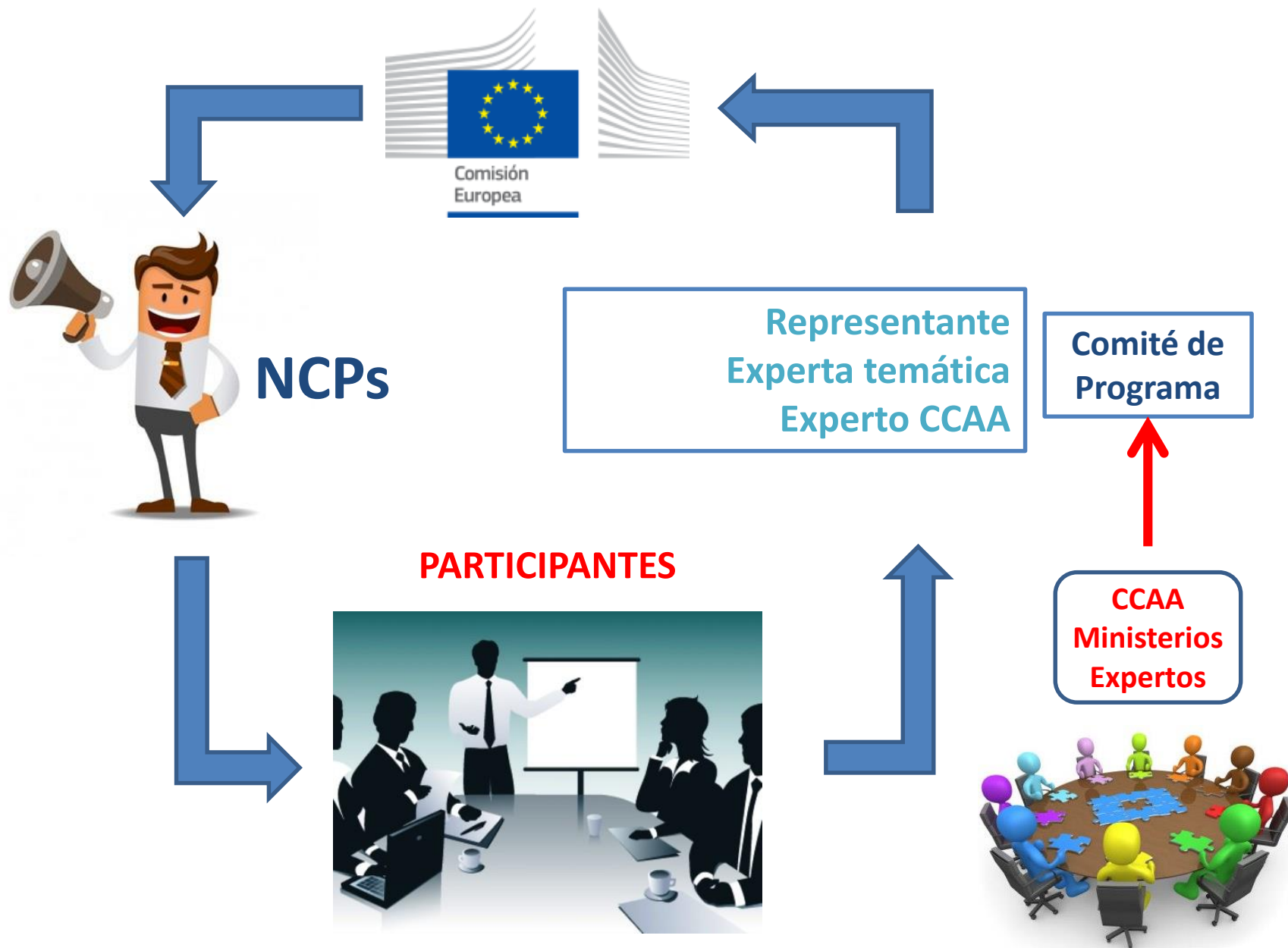
OTROS ASPECTOS A TENER EN CUENTA EN RS5

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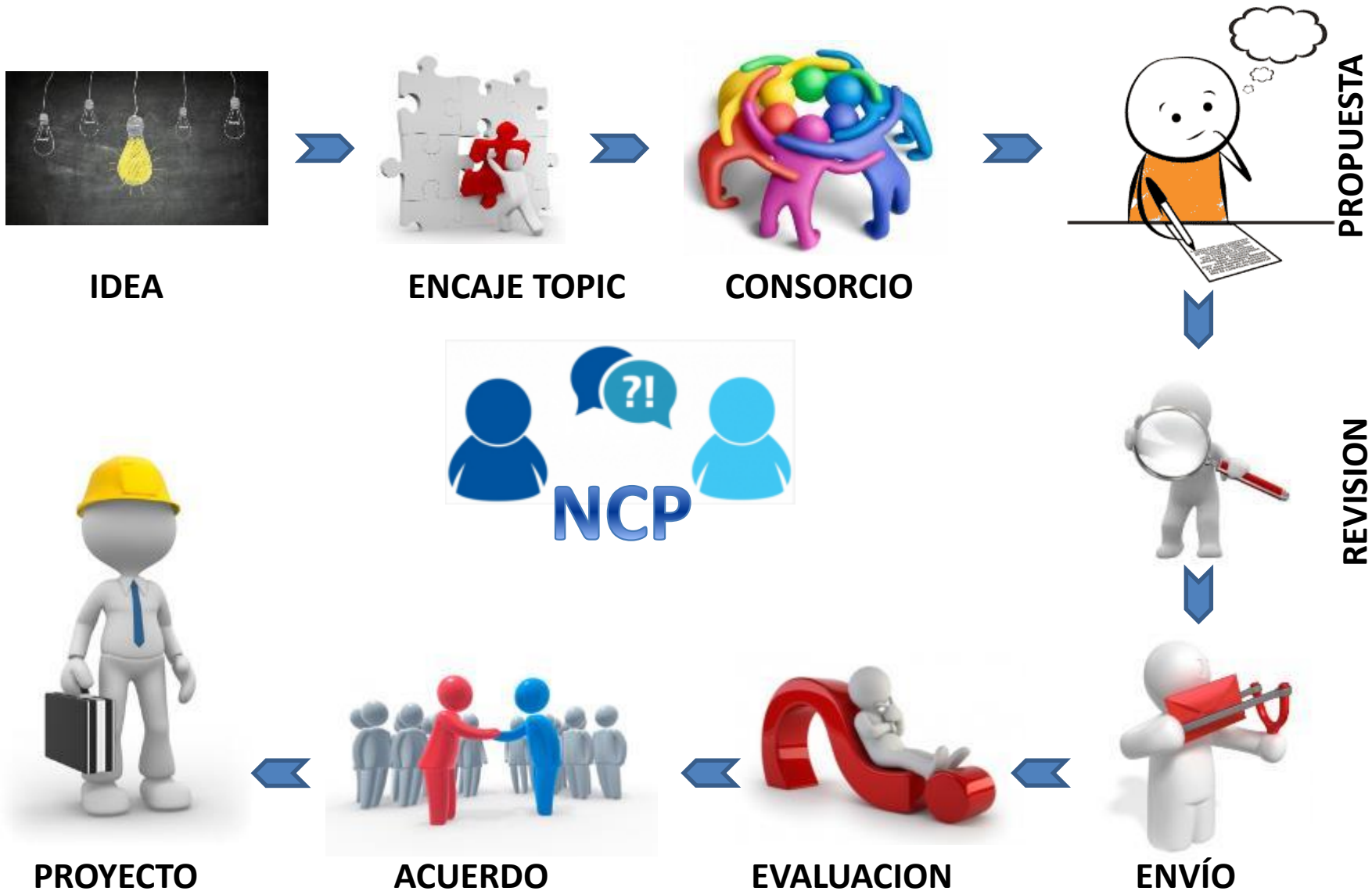
¿QUÉ HACEMOS EN CDTI?



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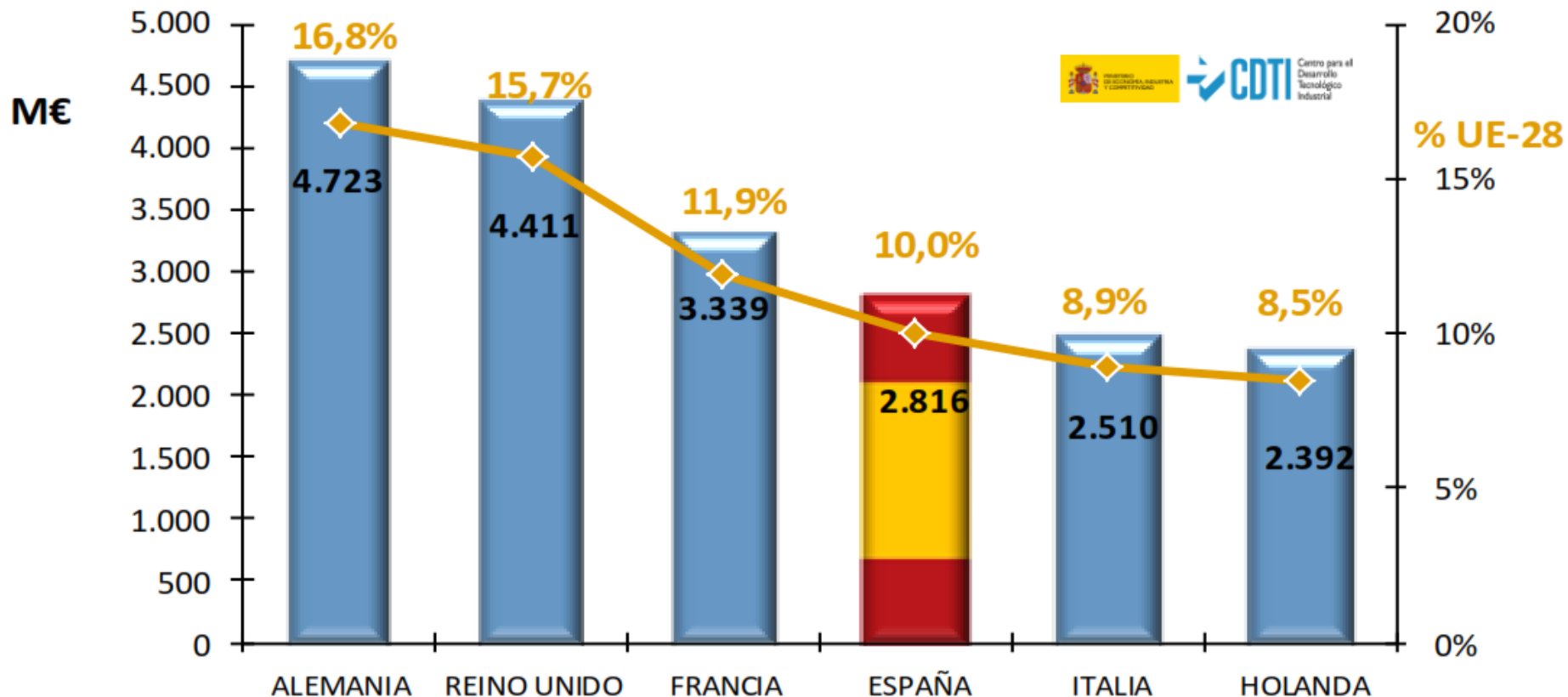


SOPORTE A LOS PARTICIPANTES

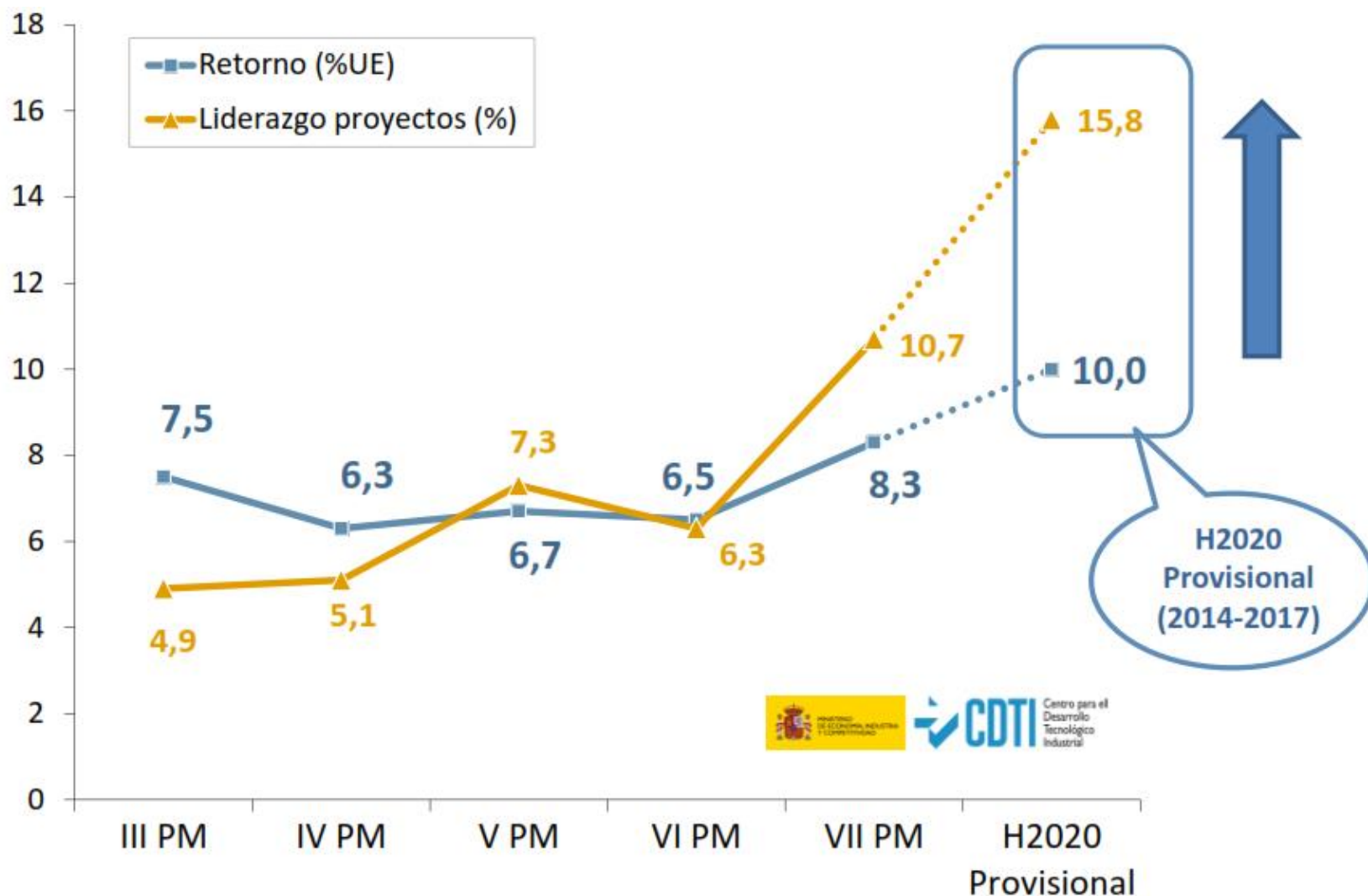




¿CÓMO LO ESTAMOS HACIENDO EN H2020?



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HORIZONTE 2020: ESTRUCTURA

Ciencia excelente

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

Liderazgo industrial

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

Retos sociales

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

Tres pilares



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Ciencia Excelente

Consejo Europeo de Investigación (ERC)

Tecnologías Futuras y Emergentes (FET)

Acciones Marie Skłodowska-Curie

Infraestructuras de investigación



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Liderazgo Industrial

Liderazgo en tecnologías industriales y de capacitación (LEIT):

- Tecnologías inform. y comunicac.
- Nanotecnologías
- Materiales avanzados
- Fabricación y transformación avanzadas
- Biotecnología
- Espacio

NMBP

Acceso a financiación de riesgo

Innovación en las PYME



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Retos Sociales

Salud, cambio demográfico y bienestar

Seguridad alimentaria, agricultura y silvicultura sostenibles, investigación marina y marítima y de aguas interiores, y bioeconomía

Energía segura, limpia y eficiente

Transporte inteligente, ecológico e integrado

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

Europa en un mundo cambiante: Sociedades inclusivas, innovadoras y reflexivas

Sociedades seguras



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HORIZONTE 2020: PRESUPUESTO (2014-2020)

HORIZONTE 2020

REGLAMENTO PE-CONS 67/13.Anexoll - Precios corrientes M€

77.028,3

I. Prioridad <<Ciencia Excelente>>

24.441,1

1. Consejo Europeo de Investigación (CEI)	13.094,8
2. Tecnologías Futuras y Emergentes (FET)	2.696,3
3. Acciones Marie Skłodowska-Curie	6.162,0
4. Infraestructuras de Investigación	2.488,0

II. Prioridad <<Liderazgo Industrial>>

17.015,5

1. Liderazgo en tecnologías industriales y de capacitación *	13.557,0
1.1 Tecnologías de la información y la comunicación (TIC) **	7.711,0
1.2 Nanotecnologías, 1.3 Materiales avanzados y 1.5 Fabricación y transformación avanzadas	3.851,0
1.4 Biotecnología	516,0
1.6 Espacio	1.479,0
2. Acceso a la financiación de riesgo. (En torno a la tercera parte podría dedicarse a PYME)	2.842,3
3. Innovación en las PYME	616,2

* 5.961 M€ para tecnologías facilitadoras esenciales. **Incluye 1.594 M€ para fotónica, microelectrónica y nonelectrónica

III. Prioridad <<Retos de la Sociedad>>

29.679,0

1. Salud, cambio demográfico y bienestar	7.471,8
2. Seguridad alimentaria, agricultura y silvicultura sostenibles, investigación marina, marítima y de aguas interiores y bioeconomía	3.851,4
3. Energía segura, limpia y eficiente	5.931,2
4. Transporte inteligente, ecológico e integrado	6.339,4
5. Acción por el clima, medio ambiente, eficiencia de los recursos y materias primas	3.081,1
6. Europa en un mundo cambiante - sociedades inclusivas, innovadoras y reflexivas	1.309,5
7. Sociedades seguras - Proteger la libertad y la seguridad de Europa y sus ciudadanos	1.694,6

IV. Objetivo específico <<Difundir la excelencia y ampliar la participación>>

816,5

V. Objetivo específico <<Ciencia con y para la sociedad>>

462,2

VI. Acciones directas no nucleares del Centro Común de Investigación (CCI)

1.902,6

VII. El Instituto Europeo de Innovación y Tecnología (EIT)

2.711,4

HORIZONTE 2020: PRESUPUESTO (2014-2020)

ÁREA	PRESUPUESTO
Salud, cambio demográfico y bienestar	7.472 M€
Seguridad alimentaria, agricultura sostenible, investigación marina y marítima y bioeconomía	3.851 M€
Energía segura, limpia y eficiente	5.931 M€
Transporte inteligente, ecológico e integrado	6.339 M€
Acción por el clima, eficiencia de los recursos y materias primas	3.081 M€
Europa en un mundo cambiante – sociedades inclusivas, innovadoras y reflexivas	1.309 M€
Sociedades seguras – proteger la libertad y la seguridad europea y sus ciudadanos	1.695 M€
Total	29.679 M€

CÓMO PARTICIPAR EN HORIZONTE 2020

Modalidades de participación

- ✓ A través de las convocatorias ordinarias
- ✓ Vía partenariados u otras Iniciativas europeas
- ✓ Accediendo a la financiación de riesgo

2014	2015	2016	2017	2018	2019	2020
PROGRAMA ESTRATÉGICO						
Work Programme 1 (+ 2016 tentative info)		PROGRAMA ESTRATÉGICO				
		WP 2 (+ 2018 info)		PROGRAMA ESTRATÉGICO		
				WP 3 (+ 2020 info)		WP 4

CONDICIONES MÍNIMAS DE ELEGIBILIDAD

Requisitos

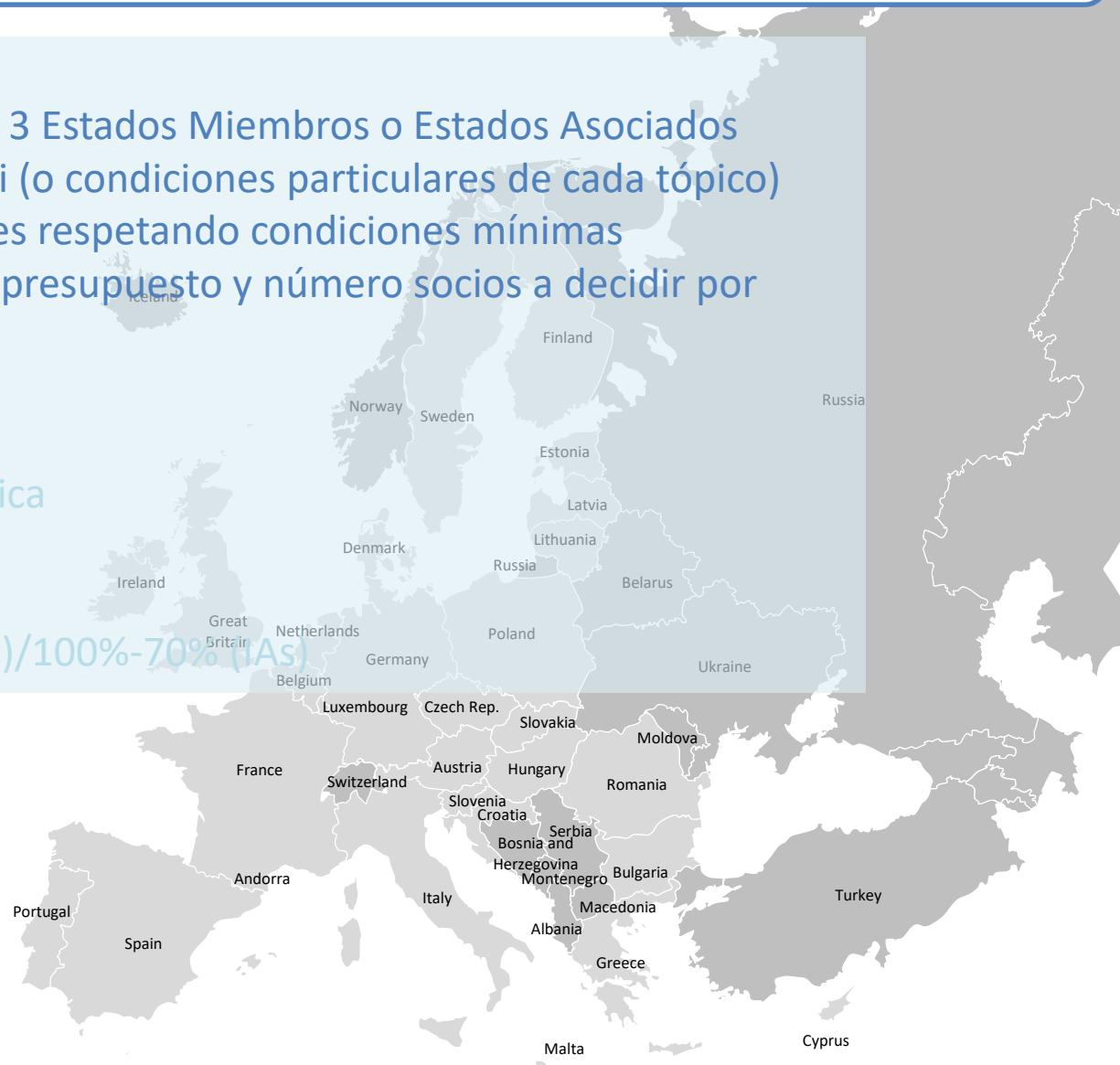
- Mínimo 3 entidades de 3 Estados Miembros o Estados Asociados
- Independientes entre si (o condiciones particulares de cada tópico)
- Abierto a terceros países respetando condiciones mínimas
- Duración del proyecto, presupuesto y número socios a decidir por consorcio

Beneficiarios

- Cualquier entidad jurídica

Tipo de financiación

- Subvención 100% (RIAs)/100%-70% (IAS)



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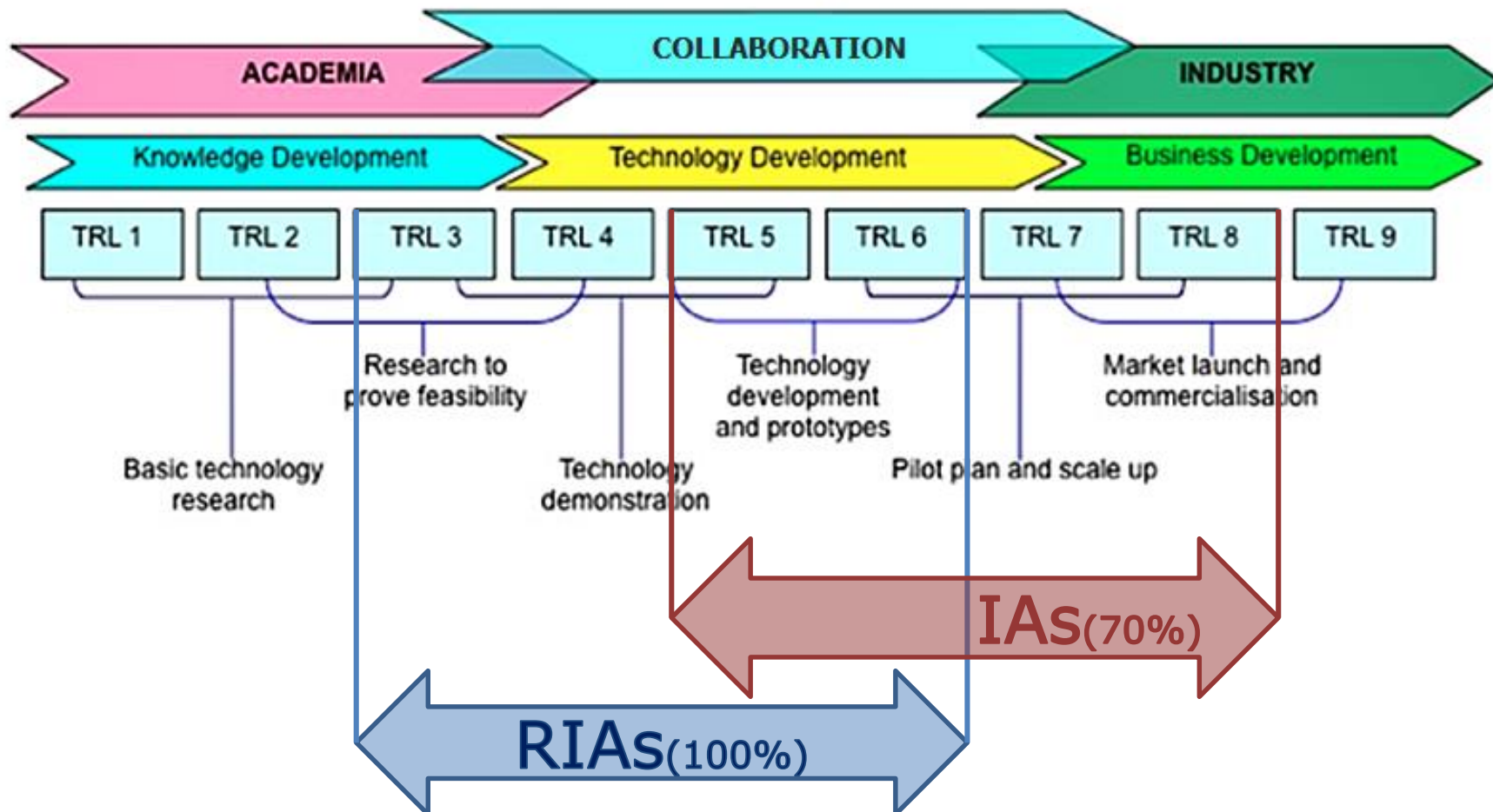
Tipo de financiación

- Subvención **100% (RIAs) 100%-70% (IAs)**



LOS TECHNOLOGY READINESS LEVELS

The Innovation Chain: Converting Science into Wealth



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GRANDES OBJETIVOS A NIVEL GLOBAL



PARIS2015
UN CLIMATE CHANGE CONFERENCE
COP21·CMP11



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LA COP21

- Hasta 2030 reducir al menos un 40% emisión gases efecto invernadero respecto 1990
- Hasta 2030 al menos un 27% de energías renovables
- Hasta 2030 al menos un 27% de mejora energética
- Interconexiones de electricidad de al menos un 10% en 2020 y 15% en 2030, especialmente en Estados Bálticos y Península Ibérica

EN ESPAÑA ESTO SE TRADUCE EN

- Disminución de un 26% hasta 2030 en sectores difusos (no sujetos a derechos de emisiones)

Los SDGs- EL WP

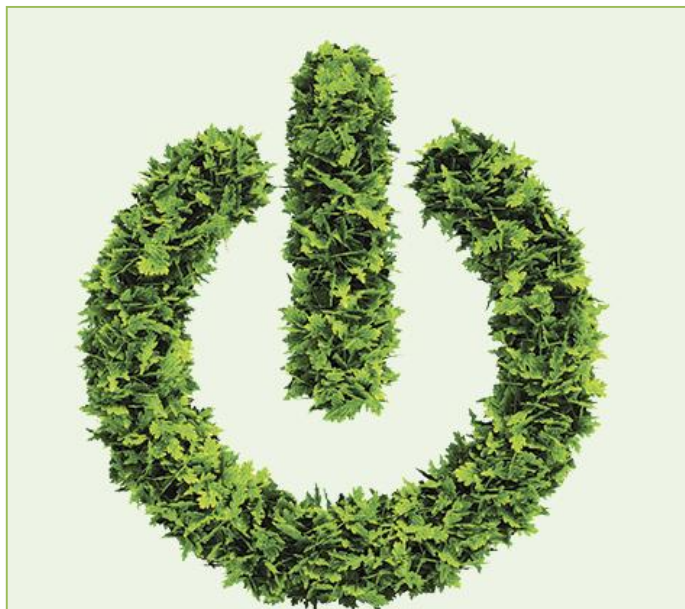
LOW CARBON



GREENING THE ECONOMY



LAS FOCUS AREAS



Building a low-carbon, climate
resilient future



Connecting economic and environmental gains-the
Circular Economy

LOW CARBON-OBJETIVOS

- Producir soluciones para conseguir los objetivos de la COP21
- Generar conocimiento científico relevante para la implementación de las “Nationally Determined Contributions” (NDCs)
- Dar soporte a políticas relevantes de la UE: Energy Union, Arctic policy, EU Adaptation Strategy
- Cooperación con socios estratégicos (países/regiones)
- Comunicación de los resultados de investigación a una mayor audiencia, incluyendo el público general.
- Apoyo a la implementación de los SDGs



LOW CARBON

Industrial technologies (LEIT-NMBP): topics in call 'Industrial Sustainability' (notably on **Energy Efficient Buildings** and **Clean Energy through Innovative Materials**), €271 million

Space (LEIT-Space): topics on **Earth Observation**, €82 million

Food security (SC2): some topics in calls 'Sustainable Food Security', 'Blue Growth' and 'Rural Renaissance', €203 million

Energy (SC3): all topics in call 'Building a low-carbon, climate resilient future: secure, clean and efficient energy', €1 953 million

Transport (SC4): all topics in call 'Green vehicles' and some topics in call 'Mobility for Growth' ('Low-carbon and sustainable transport'), €408 million

Climate (SC5): all topics in call 'Building a low-carbon, climate resilient future: climate action in support of the Paris Agreement', €426 million



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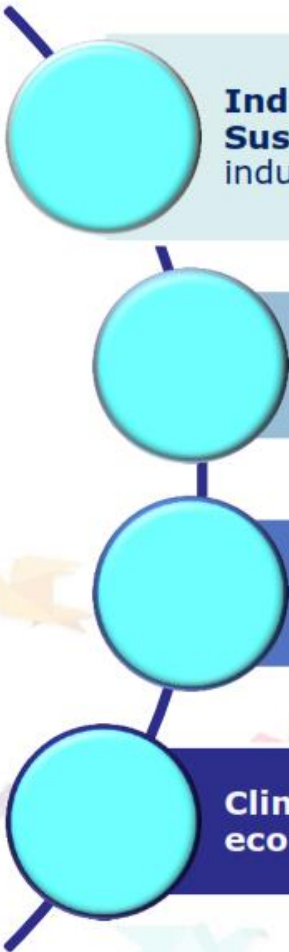
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CIRCULAR ECONOMY-OBJETIVOS

- Integración de la producción, consumo, gestión de residuos y materias primas
- Asegurar un desacoplamiento entre el crecimiento económico y el consumo de recursos, energía, agua y materias primas primarias
- Minimización de vertidos
- Mejorar la competitividad industrial
- Oportunidades de nuevos negocios
- “Servitización” de la economía



CIRCULAR ECONOMY



Industrial technologies (LEIT-NMBP): topics in call 'Industrial Sustainability' (notably **Sustainable Process Industry** and **Catalysing the Circular Economy**); and in industrial biotechnology: €370 million

Food security and Bioeconomy (SC2): topics in calls '**Sustainable Food Security**', '**Blue Growth**' and '**Rural Renaissance**', including **access to risk finance**: €253 million

Energy (SC3): Carbon dioxide reuse: €12 million

Climate, Environment and Raw Materials (SC5): topics in call '**Greening the economy in line with the SDGs**' – circular economy and raw materials: €306 million



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European
Commission



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OTRAS POLÍTICAS- NIVEL GLOBAL



UN World Conference on
Disaster Risk Reduction
2015 Sendai Japan



United Nations
Framework Convention on
Climate Change



UNISDR

Oficina de las Naciones Unidas para la Reducción
del Riesgo de Desastres

OTRAS POLÍTICAS- NIVEL EUROPEO



EIP Water

Boosting opportunities – Innovating water



2018 
EUROPEAN YEAR
OF CULTURAL
HERITAGE
#EuropeForCulture



European Innovation
Partnership on Raw Materials



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ESTRUCTURA WP 2018-2020

Call-Building a low-carbon, climate resilient future: climate action in support of Paris Agreement

- **Decarbonization**
- **Climate adaptation, impacts and services**
- **Inter-relation between climate change, biodiversity and ecosystem services**
- **The Cryosphere**
- **Knowledge gaps**

Protecting and leveraging the value of our natural and cultural assets

Call-Greening the economy in line with the Sustainable Development Goals (SDGs)

- **Connecting economic and environmental gains – the circular economy**
- **Raw materials**
- **Water for our environment, economy and society**
- **Innovating cities for sustainability and resilience**
- **Earth observation**
- **Nature-based solutions, disaster risk reduction and natural capital accounting**
- **Heritage alive**

ESTRUCTURA WP 2018-2020

**Call-Building a low-carbon,
climate resilient future:
climate action in support of
Paris Agreement**

- Decarbonization
- Climate adaptation, impacts and services
- Inter-relation between climate change, biodiversity and ecosystem services
- The Cryosphere
- Knowledge gaps

**Protecting and leveraging the value
of our natural and cultural assets**

**Call-Greening the economy in
line with the Sustainable
Development Goals (SDGs)**

- Connecting economic and environmental gains – the circular economy
- Raw materials
- Water for our environment, economy and society
- Innovating cities for sustainability and resilience
- Earth observation
- Nature-based solutions, disaster risk reduction and natural capital accounting
- Heritage alive

BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE: CLIMATE ACTION IN SUPPORT OF THE PARIS AGREEMENT



PARIS2015
UN CLIMATE CHANGE CONFERENCE
COP21•CMP11

DECARBONISATION

LC-CLA-02-2019.- Negative emissions and land-use based mitigation assessment

- a) Feasibility of negative emissions for climate stabilisation
- b) Land-based mitigation

RIA
5 y 7 m€



DECARBONISATION

LC-CLA-02-2019.- Negative emissions and land-use based mitigation assessment

a) Feasibility of negative emissions for climate stabilisation

Assess potential, effectiveness of existing and emerging negative emission technologies and practices and their impact on ecosystems

b) Land-based mitigation



DECARBONISATION

LC-CLA-02-2019.- Negative emissions and land-use based mitigation assessment

- a) Feasibility of negative emissions for climate stabilisation
- b) Land-based mitigation
Analysis of various land-use based mitigation options at the global and regional level, assessing their potential and effectiveness in reduction of greenhouse gases



LC-CLA-05-2019.- Human dynamics of climate change

- a) Climate services for Africa
- b) Climate and human migration

RIA

5 y 7 m€

CLIMATE CHANGE ADAPTATION



LC-CLA-05-2019.- Human dynamics of climate change

a) Climate services for Africa

- I. Exploit new, relevant climate data made available by Copernicus and other relevant sources such as GEOOS
- II. Create dedicated climate services for Africa
- III. Two of the sectors: water, energy, land use, health and infrastructure
- IV. Tools/applications

b) Climate and human migration

CLIMATE
CHANGE
ADAPTATION

LC-CLA-05-2019.- Human dynamics of climate change

a) Climate services for Africa

b) Climate and human migration

I. Identify and analyse drivers relating to climate change that may affect human migration

II. Provide guidelines and policy recommendations for the European Agenda on Migration

CLIMATE
CHANGE
ADAPTATION



LC-CLA-06-2019.- Inter-relations between climate change, biodiversity and ecosystem services

Investigate at all relevant spatial and temporal scales ways that ecological processes and ecosystems services are impacted by climate change

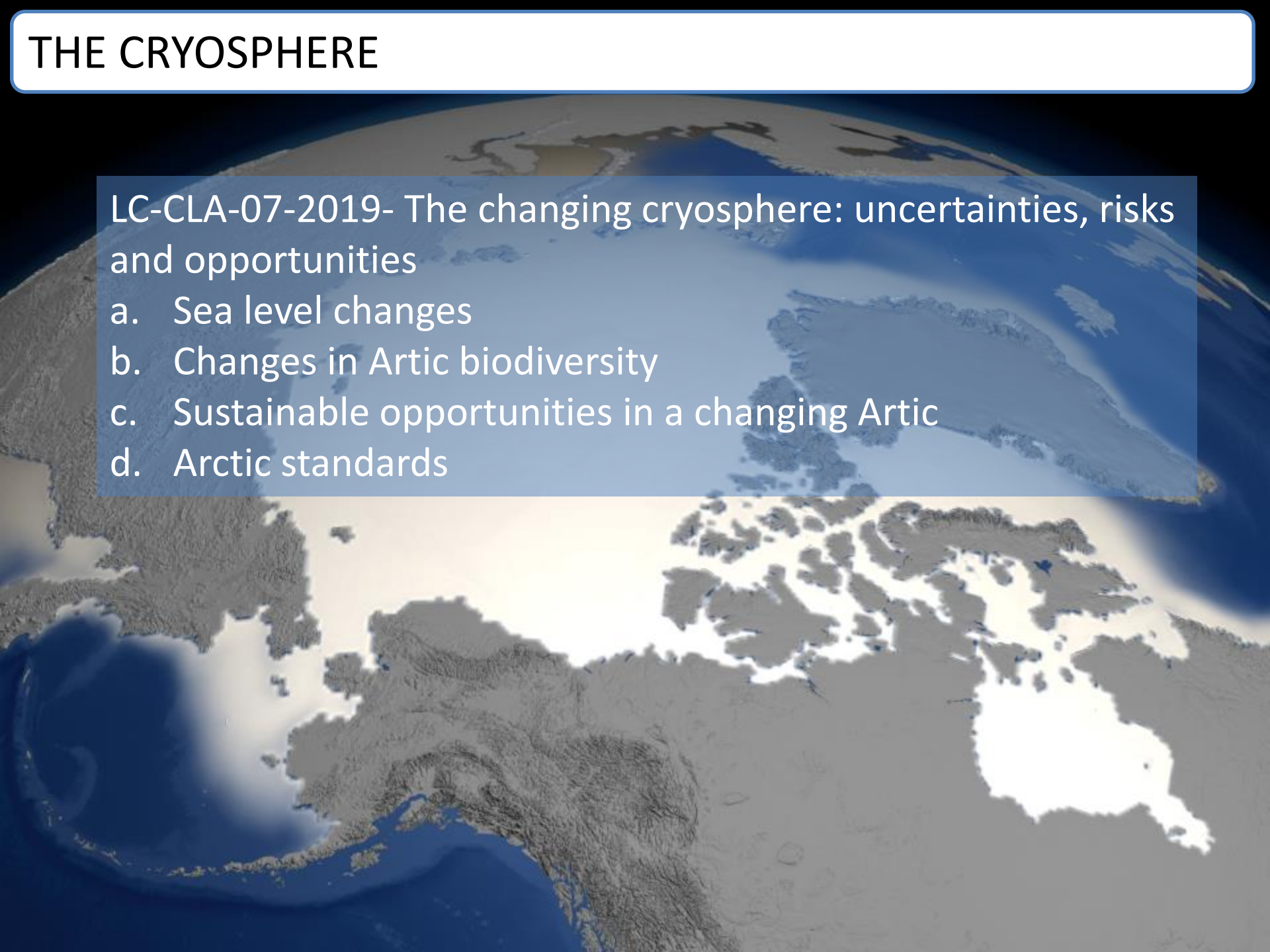


RIA
5 y 7 m€

THE CRYOSPHERE

LC-CLA-07-2019- The changing cryosphere: uncertainties, risks and opportunities

- a. Sea level changes
- b. Changes in Arctic biodiversity
- c. Sustainable opportunities in a changing Arctic
- d. Arctic standards



THE CRYOSPHERE

LC-CLA-07-2019- The changing cryosphere: uncertainties, risks and opportunities

a. Sea level changes

Assess the processes controlling changes to global ice mass balance

b. Changes in Arctic biodiversity

c. Sustainable opportunities in a changing Arctic

d. Arctic standards

RIA

8 y 10 m€

THE CRYOSPHERE

LC-CLA-07-2019- The changing cryosphere: uncertainties, risks and opportunities

- a. Sea level changes
- b. Changes in Arctic biodiversity
 - I. Identify and analyse major drivers of changing biodiversity in the Arctic
 - II. Assess ecosystems' responses to both external and internal factors
- c. Sustainable opportunities in a changing Arctic
- d. Arctic standards

RIA

5 y 6 m€

THE CRYOSPHERE

LC-CLA-07-2019- The changing cryosphere: uncertainties, risks and opportunities

- a. Sea level changes
- b. Changes in Arctic biodiversity
- c. Sustainable opportunities in a changing Arctic
Assess the viability of new economic activities
(resource exploitation, shipping, tourism...) and
ecological/socio-economic impacts
- d. Arctic standards

RIA
5 y 6 m€

THE CRYOSPHERE

LC-CLA-07-2019- The changing cryosphere: uncertainties, risks and opportunities

- a. Sea level changes
- b. Changes in Arctic biodiversity
- c. Sustainable opportunities in a changing Arctic
- d. Arctic standards
 - I. Propose guidelines and protocols to develop “Arctic standards” including legal framework.
 - II. Cover technologies and services with high potential to bring social and economic benefits

CSA 2 m€

DEADLINES Y CONDICIONES ADICIONALES

TOPICS	DEADLINES
LC-CLA-07-2019 (CSA)	19/02/2019
Resto (RIAS) 1st stage	19/02/19
2nd stage	04/09/19

TOPICS	Condiciones adicionales
LC-CLA-05-2019 (human dynamic climate changes)	Al menos 3 participantes de dos países africanos
LC-CLA-07-2019 (changing cryosphere)	Al menos 2 participantes de terceros países

GREENING THE ECONOMY

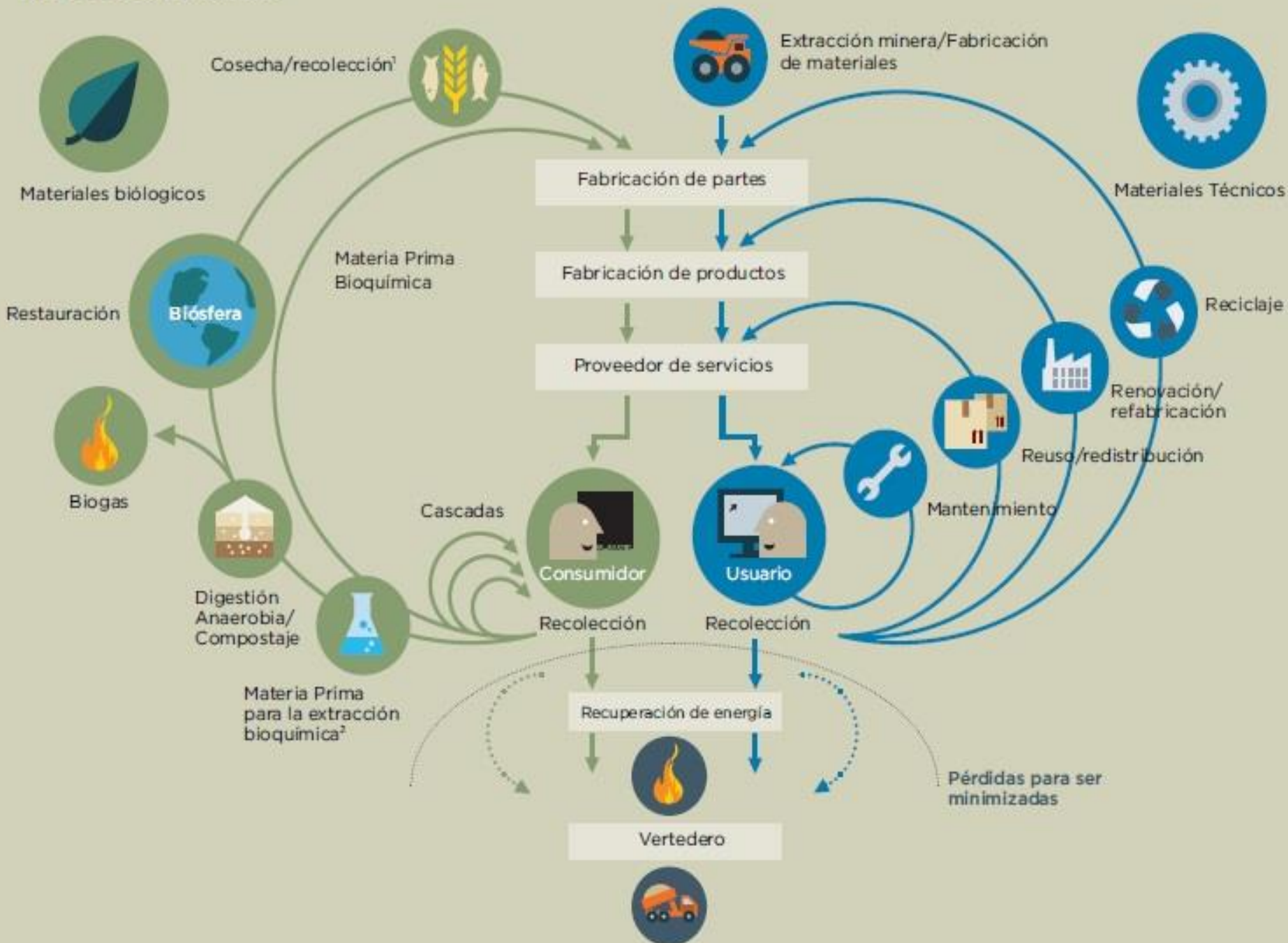


CONNECTING ECONOMIC AND ENVIRONMENTAL GAINS

CIRCULAR ECONOMY



Una economía circular



EL PAQUETE **CIRCULAR ECONOMY**

- Propuesta legislativa en vertidos: reciclaje 65% (70%) / reciclaje embalajes 75% / Valorización energética / Máx. vertedero 10% (5%)
- Plan de eco-diseño 2016-2019
- Estrategia para reutilización de **agua**
- Estrategia en **plásticos**
- Creación de la Plataforma **Financiación** de la Economía Circular
- Creación de la plataforma **Food Losses and Food Waste**
- **Paquete Industry 2020 in the Circular Economy**
- **Innovation Deals**

EL PAQUETE **CIRCULAR ECONOMY**

- Propuesta legislativa en **venta on-line**
- Propuesta legislativa en **fertilizantes**
- Protocolo para los **residuos de construcción y demolición**
- Propuesta legislativa para restricción de uso de sustancias peligrosas en **equipamiento eléctrico y electrónico**
- Publicación de **guías**: Best Available Techniques Reference Documents (BREFs), Guía para la Compra Pública Verde, guía transporte vertidos, guía prácticas comerciales, etc

CE-SC5-04-2019: Building a water-smart economy and society

- a) Symbiosis between industry and water utilities
- b) Large scale applications with multiple water users at various relevant scales

IA

10 y 15 m€

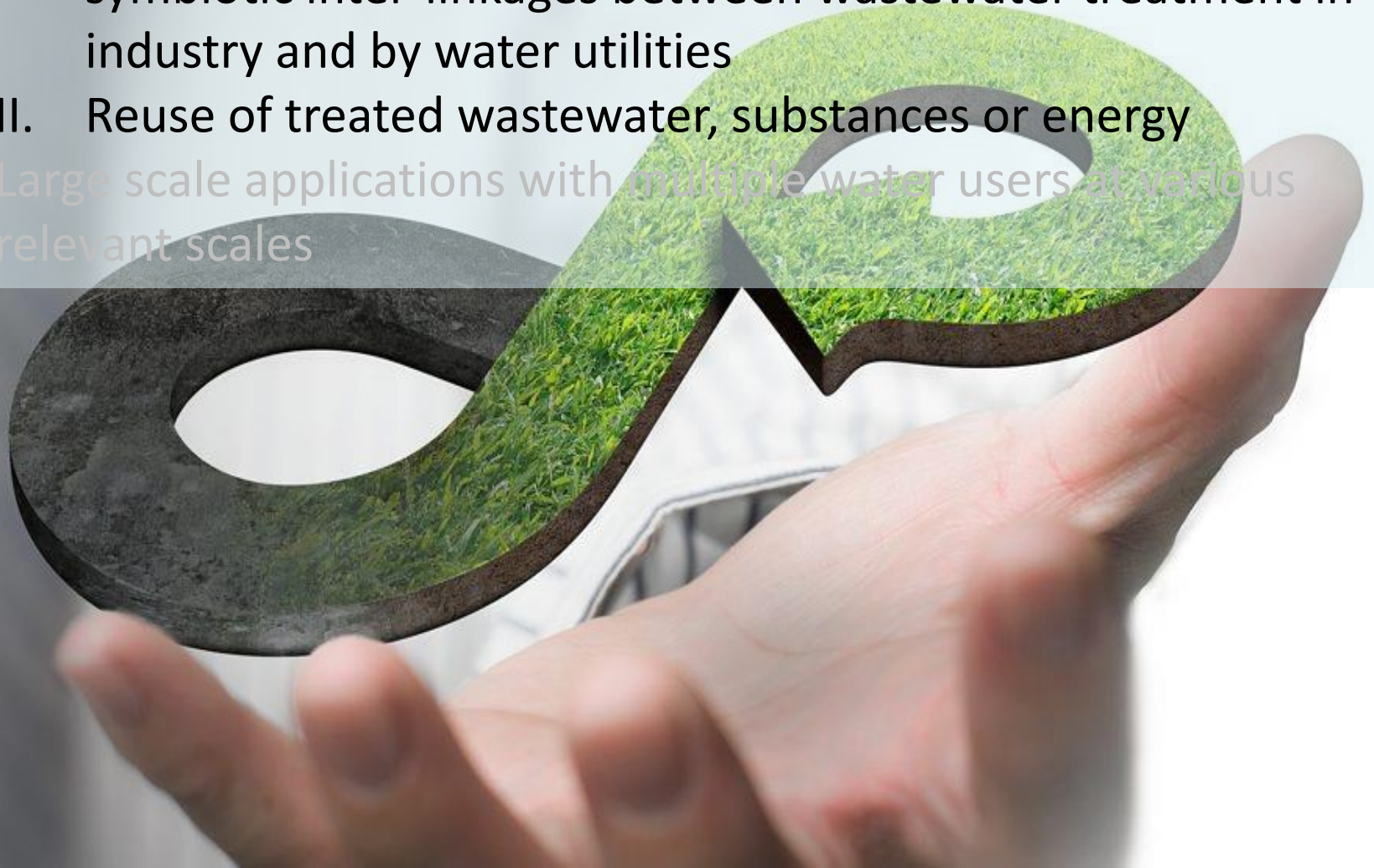


CE-SC5-04-2019: Building a water-smart economy and society

a) Symbiosis between industry and water utilities

- I. Resource-efficient solutions derived from exploitation of symbiotic inter-linkages between wastewater treatment in industry and by water utilities
- II. Reuse of treated wastewater, substances or energy

b) Large scale applications with multiple water users at various relevant scales

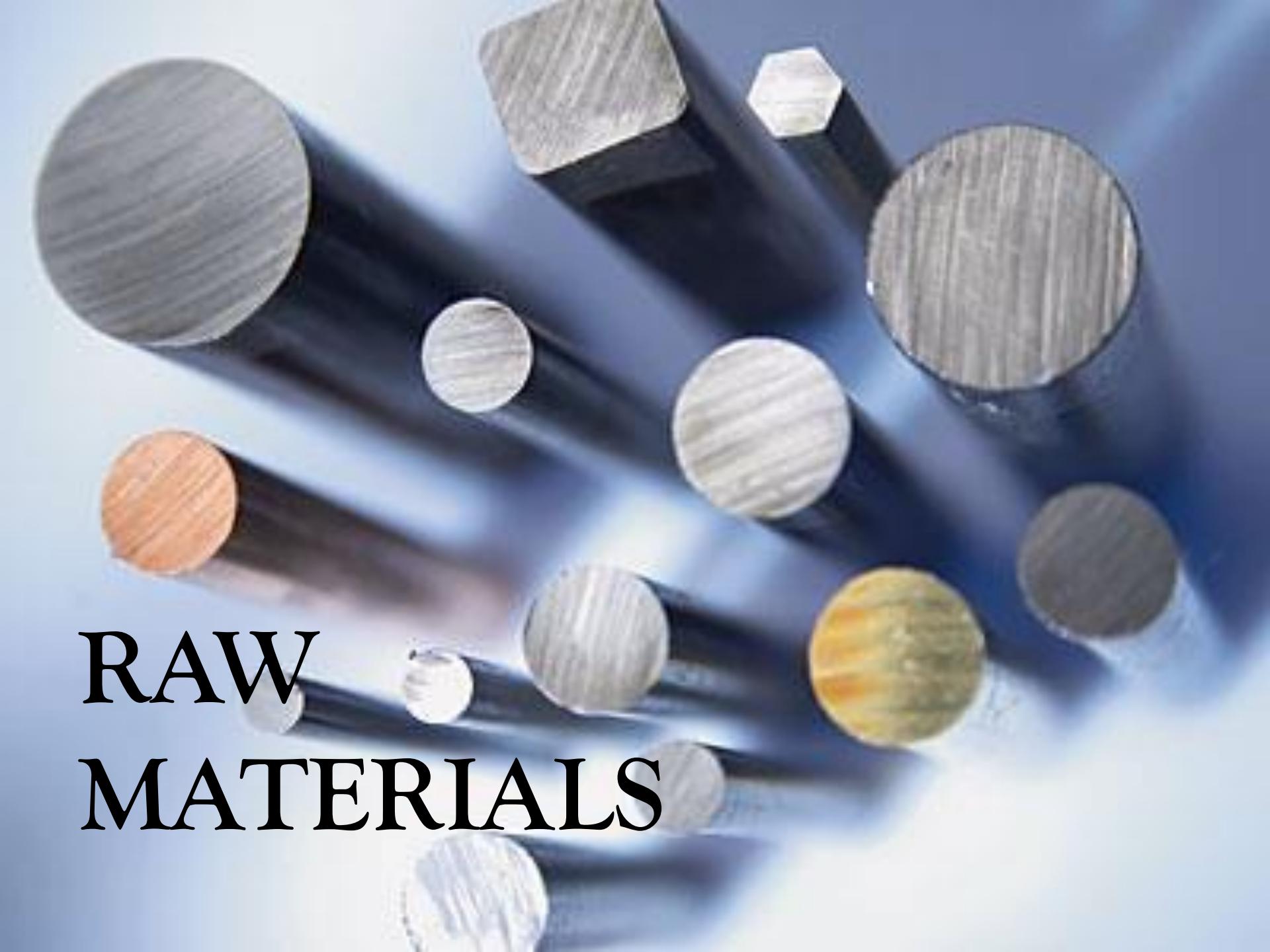


CE-SC5-04-2019: Building a water-smart economy and society

a) Symbiosis between industry and water utilities

b) Large scale applications with multiple water users at various relevant scales

- I. Multiple water uses (urban, industrial, rural, agricultural) at various relevant scales (regional/national/international)
- II. Stimulating efficient and multiple use, recycling and reuse of water, recovery of energy and materials
- III. Managing of water demand
- IV. Exploiting alternative water sources
- V. Prevention of water pollution
- VI. Cost-effective and smart management of water system and infrastructures
- VII. As far as possible consider **ALL** activities (from II to VI)



RAW MATERIALS

RAW MATERIALS INITIATIVE Los 3 pilares

**Suministro
justo y
sostenible de
RM de
mercados
globales**

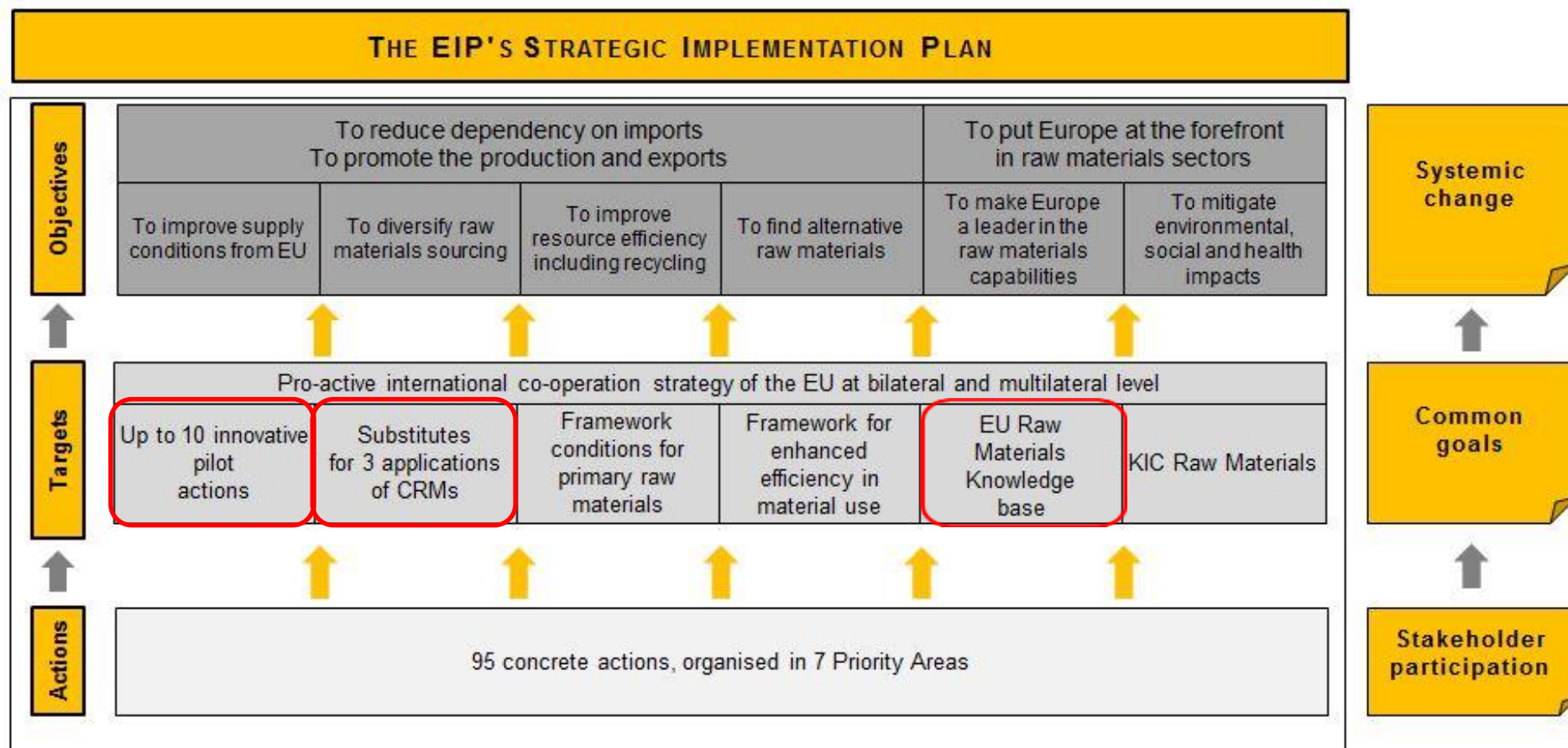
**Eficiencia
recursos y
suministro de
RM
secundarias
mediante
reciclado**

**Suministro
sostenible
de RM en la
UE**

CRITICAL RAW MATERIALS (CRM)

SALEN	ENTRAN
Cromo	Barita
Magnesita	Bismuto
Carbón de coque (no llega al límite pero se queda en la lista por prudencia)	Hafnio
	Helio
	Caucho natural
	Fósforo
	Escandio
	Tantalio
	Vanadio

LA EIP on RAW MATERIALS





OVERVIEW



POLICY & LEGISLATION



TERMINOLOGY & LIBRARY



CRITICAL RAW MATERIALS



RM SCOREBOARD & OTHER
MONITORING SYSTEMS



SECONDARY RAW MATERIALS &
CIRCULAR ECONOMY



ENVIRONMENTAL & SOCIAL
SUSTAINABILITY



ECONOMICS & TRADE



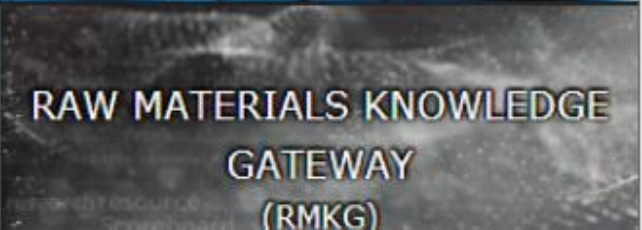
INDUSTRY & INNOVATION



RAW MATERIALS' PROFILES &
SUPPLY CHAINS



COUNTRY PROFILES



RAW MATERIALS KNOWLEDGE
GATEWAY
(RMKG)



CE-SC5-07-2018-2019-2020: Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes

CE-SC5-08-2018-2019-2020: Raw materials policy support actions for circular economy

SC5-09-2018-2019: New solutions for sustainable production of raw materials

SC5-10-2019-2020: Raw materials innovation actions: exploration and Earth observation in support of mining

CE-SC5-07-2018-2019-2020: Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes

- a. Sustainable processing and refining of primary and/or secondary raw materials(2018,2019)
 - Sistemas nuevos o mejorados sobre tecnologías de proceso y refino para recuperación de minerales y metales
- b. Recycling of raw materials from end-of-life products (2018,2019)
 - Reciclado y recuperación de materias primas secundarias de producto final
- c. Recycling of raw materials from buildings (2018,2019)
 - Recuperación de materias primas de edificios
- d. Advanced sorting systems for high-performance recycling of complex end-of-life (2018,2019)
 - Sistemas innovadores de desmantelado y clasificación que permitan reciclado y recuperación eficiente

CE-SC5-07-2018-2019-2020: Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes

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b. Recycling of raw materials from end-of-life products (2018,2019)

Reciclado y recuperación de materias primas secundarias de producto final

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Sistemas innovadores de desmantelado y clasificación que permitan reciclado y recuperación eficiente

CE-SC5-08-2018-2019-2020: Raw materials policy support actions for the circular economy

- a. Voluntary scheme for certification of treatment facilities for key types of wastes (2018)
- b. Resource efficiency in wood processing, recovery and recycling (2018)
- c. Responsible sourcing of raw materials in global value chains (2019)
 - Global business and stakeholder platform for exchange of information

CSA
Hasta 3 m€



SC5-09-2018-2019: New technologies for the sustainable production of raw materials

- a. Breakthrough concepts and solutions for sustainable exploration, mining and/or processing (2018)
- b. Digital mine(2019)
- c. Recovery of metals and minerals from sea resources (2019)

RIA
3 y 7 m€



SC5-09-2018-2019: New technologies for the sustainable production of raw materials

a. Breakthrough concepts and solutions for sustainable exploration, mining and/or processing (2018)

b. **Digital mine(2019)**

Develop and Industrial Internet of Things (IoT) platform to **significantly** enhance efficiency of mining operations

c. Recovery of metals and minerals from sea resources (2019)



SC5-09-2018-2019: New technologies for the sustainable production of raw materials

- a. Breakthrough concepts and solutions for sustainable exploration, mining and/or processing (2018)
- b. Digital mine(2019)
- c. **Recovery of metals and minerals from sea resources (2019)**

Technological solutions for the processing of minerals and metals from sea resources, including seawater brines



SC5-10-2019-2020: Raw materials innovation actions:
exploration and Earth observation in support of sustainable
mining

- a. Integrated exploration solutions (2019)
- b. Services and products for the extractive industries life
cycle(2019)

IA
8 y 13 m€



SC5-10-2019-2020: Raw materials innovation actions:
exploration and Earth observation in support of sustainable
mining

a. Integrated exploration solutions (2019)

- I. Integrated exploration solutions focused on finding
new deep land deposits
- II. Benefit from any of the advanced geological-
geochemical-geophysical-remote sensing approaches

b. Services and products for the extractive industries life
cycle(2019)

SC5-10-2019-2020: Raw materials innovation actions:
exploration and Earth observation in support of sustainable
mining

a. Integrated exploration solutions (2019)

b. **Services and products for the extractive industries life
cycle(2019)**

- I. Develop services and products based on Earth
observation data and techniques for extractive
industries life cycle
- II. Built upon information and data made available by
the Copernicus Programme and other relevant Earth
observation data



Innovating cities for sustainability and resilience



SC5-13-2018-2019: Strengthening international cooperation on sustainable urbanisation: nature-based solutions for restoration and rehabilitation of urban ecosystems

SC5-14-2019: Visionary and integrated solutions to improve well-being and health in cities



SC5-13-2018-2019: Strengthening international cooperation on sustainable urbanisation: nature-based solutions for restoration and rehabilitation of urban ecosystems

Desarrollo de herramientas, sistemas de decisión, metodologías, guías, estándares para el despliegue y monitorización de NBS en restauración, prevención, rehabilitación y mantenimiento de áreas urbanas y periurbanas

- a. Strengthening EU-China collaboration (2018)
- b. Strengthening EU-CELAC collaboration (2019)

RIA
5 m€



SC5-14-2019: Visionary and integrated solutions to improve well-being and health in cities

Visionary and integrated solutions (e.g. therapy gardens, urban living rooms...)
intersection social, cultural, digital and NB
innovation to increase health and well-being

RIA
10 m€

Earth Observation

SC5-16-2019: Development of commercial activities and services through the use of GEOSS and Copernicus data

a) Coordination of European innovators in the domain of Earth observation

Foster the development and implementation of a collaborative and integrated European research and innovation strategy for mass market applications based on space and non-space EO

CSA
1 M€

b) Designing Earth observation services and products of the future, building on GEOSS and Copernicus assets

Deliver solutions addressing citizens' needs and contributing to the development of new markets of products and services integrating EO with other data sources

Earth Observation

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Deliver solutions addressing citizens' needs and contributing to the development of new markets of products and services integrating EO with other data sources

IA
2-3 M€

NATURE-BASED SOLUTIONS, DISASTER RISK REDUCTION AND NATURAL CAPITAL ACCOUNTING

SC5-23-2019: Multi-stakeholder dialogue platform to promote nature-based solutions to societal challenges: follow-up project

- I. To build upon the achievements of ThinkNature (ongoing CSA) to promote the design, development, replication and upscaling of NBS at the European and global scale
- II. Contactar con OPPLA y Biodiversa

CSA
2 M€

Heritage alive

SC5-20-2019: Transforming historic urban areas and/or cultural landscapes into hubs of entrepreneurship and social and cultural integration

- I. Reactivate and regenerate historic urban areas and/or cultural landscapes
- II. Foster innovation by relevant start-ups, cultural and creative industries, including digital sector

IA
7 y 8 m€



SPECIFIC SUPPORT AND IMPLEMENTATION ASPECTS

SC5-22-2019.- Assessing and fostering the impacts of Research and Innovation Actions (RIA) and Innovation Actions (IA) granted by Societal Challenge 5 in 2014-2015

- I. Assess the impacts of all the RIA and IA projects funded by SC5 under the 2014-2015 WP (87 projects in total)
- II. Análisis cuantitativo y cualitativo
- III. Aplicar metodología existente o desarrollar nueva

CSA
0,6 M€

DEADLINE

TOPICS		DEADLINES
CSAs		19/02/19
Resto (RIAS/IAs) 1st stage		19/02/19
	2nd stage	04/09/19

CONDICIONES ESPECIALES DE ELEGIBILIDAD

TOPICS	Condiciones adicionales
SC5-13-2018-2019 (NBS for urban ecosystems)	Al menos 3 participantes de CELAC
SC5-14-2019 (well-being and health in cities)	Al menos 4 ciudades de diferentes MS o AS
SC5-20-2019 (historic urban areas into hubs of entrepreneurship)	Al menos 4 áreas históricas o paisajes culturales de diferentes MS o AS

CONDICIONES ESPECIALES DE FINANCIACIÓN

TOPICs

SC5-14-2019 (well-being and health in cities)

Condiciones especiales

Máximo de un 20% del presupuesto total en infraestructuras

SC5-14-2019-VISIONARY AND INTEGRATED SOLUTIONS TO IMPROVE WELL-BEING AND HEALTH IN CITIES

	Previo		Modificación	
	Escenario A	Escenario B	Escenario C	Escenario D
Presupuesto proyecto	10.000.000	10.000.000	10.000.000	10.000.000
Importe de infraestructuras	2.000.000	9.000.000	2.000.000	9.000.000
Tipo de limitación	20%	20%	20%	20%
Imputado 100%	2.000.000	9.000.000		
Financiado 20%	400.000	1.800.000		
Importe máximo a imputar (20% total)			2.000.000	2.000.000
Financiado 100% imputado			2.000.000	2.000.000
Financiado	400.000	1.800.000	2.000.000	2.000.000
Aportación Comisión				
Empresas	280.000	1.260.000	1.400.000	1.400.000
Ayuntamientos	400.000	1.800.000	2.000.000	2.000.000

OTROS ASPECTOS A TENER EN CUENTA EN RS5

4



The Sustainable Development Goals Report 2018

Contents



United Nations



3

Foreword

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A data revolution in motion

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Goal 6: Clean water and sanitation

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Goal 7: Affordable and clean energy

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Goal 11: Sustainable cities and communities

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Goal 12: Responsible consumption and production

28

Goal 15: Life on land

30

Goal 17: Partnership for the Goals

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Note to the reader

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Regional groupings

Los SDGs

TARGETS		INDICATORS	
6.1	By 2030, achieve universal and equitable access to safe and affordable drinking water for all	6.1.1	Proportion of population using safely managed drinking water services
6.2	By 2030, achieve access to adequate and equitable sanitation and hygiene for all and end open defecation, paying special attention to the needs of women and girls and those in vulnerable situations	6.2.1	Proportion of population using safely managed sanitation services, including a hand-washing facility with soap and water
6.3	By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally	6.3.1	Proportion of wastewater safely treated
		6.3.2	Proportion of bodies of water with good ambient water quality
6.4	By 2030, substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity	6.4.1	Change in water-use efficiency over time
		6.4.2	Level of water stress: freshwater withdrawal as a proportion of available freshwater resources
6.5	By 2030, implement integrated water resources management at all levels, including through transboundary cooperation as appropriate	6.5.1	Degree of integrated water resources management implementation (0-100)
		6.5.2	Proportion of transboundary basin area with an operational arrangement for water cooperation
6.6	By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes	6.6.1	Change in the extent of water-related ecosystems over time
6.A	By 2030, expand international cooperation and capacity-building support to developing countries in water- and sanitation-related activities and programmes, including water harvesting, desalination, water efficiency, wastewater treatment, recycling and reuse technologies	6.A.1	Amount of water- and sanitation-related official development assistance that is part of a government-coordinated spending plan
6.B	Support and strengthen the participation of local communities in improving water and sanitation management	6.B.1	Proportion of local administrative units with established and operational policies and procedures for participation of local communities in water and sanitation management

¿DÓNDE?

SECTOR	TARGET GROUP	IMPACT	KPI



FULL, FREE AND OPEN
ACCESS TO DATA



-  ATMOSPHERE MONITORING
-  MARINE ENVIRONMENT MONITORING
-  LAND MONITORING
-  CLIMATE CHANGE
-  EMERGENCY MANAGEMENT
-  SECURITY

 **copernicus**
Europe's eyes on Earth

OBJETIVOS



Monitorización de la Tierra, medioambiente y ecosistemas terrestres

- Mejorar conocimiento planeta
- Mejorar políticas medioambientales
- Adaptación al cambio climático



Contribuir al rol de la UE como potencia mundial

- Apoyo políticas de la UE
- Contribuir a independencia tecnológica



Herramienta para el desarrollo económico impulsado por la economía digital



CARACTERÍSTICAS



Usos

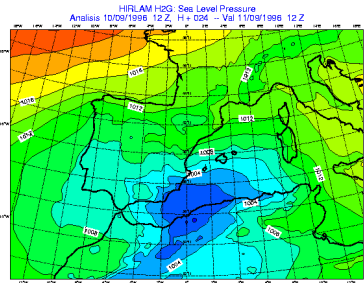


Salvamento
marítimo

Aprovechamiento
de recursos



Previsiones
meteorológicas



Monitorización
medioambiente

Gestión agua

Apoyo al
transporte

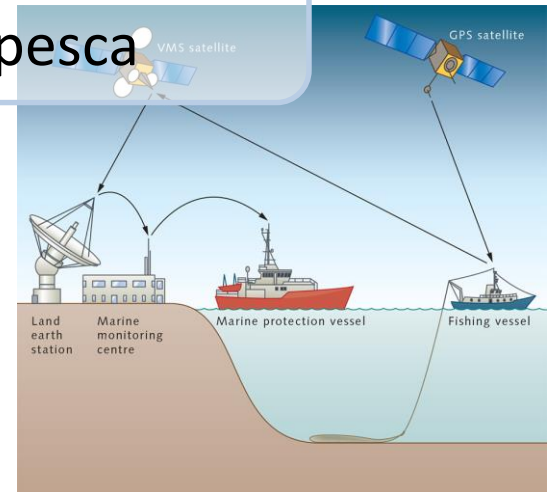


BENEFICIOS

+70% precisión
agricultura



+50% beneficio
pesca



+50% beneficio
plantas solares



186 M€ ahorro
en seguros



ACCESO A LOS DATOS

<https://scihub.copernicus.eu/>



Copernicus Open Access Hub

Welcome to the Copernicus Open Access Hub

The Copernicus Open Access Hub (previously known as Sentinels Scientific Data Hub) provides complete, free and open access to [Sentinel-1](#), [Sentinel-2](#), [Sentinel-3](#) and [Sentinel-5P](#) user products, starting from the In-Orbit Commissioning Review (IOCR).

Sentinel Data are also available via the Copernicus Data and Information Access Services (DIAS) through several [platforms](#).



Please visit our [User Guide](#) for getting started with the Data Hub Interface. Discover how to use the APIs and create scripts for automatic search and download of Sentinels' data.

For further details or requests of support please send an e-mail to eosupport@copernicus.esa.int



Open Hub



API Hub



S-3 Pre-Ops



S-5P Pre-Ops



GNSS Hub

ACCESO A LOS DATOS

<https://sobloo.eu/>

sobloo



[DATA](#)

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ALL DATA



SATELLITES



**COPERNICUS CORE
SERVICES**



MOBILE



CONNECTED OBJECTS



THEMATIC PRODUCTS

ACCESO A LOS DATOS

<https://mundiwebservices.com/>



ACCESO A LOS DATOS

<https://creodias.eu/>

The screenshot shows the homepage of the CREODIAS website. At the top, there is a header with the European Union flag, the Copernicus logo, and navigation links: "Order now", "Contact us", and "Log in". Below this is a dark navigation bar with the CREODIAS logo (powered by CloudFerro) and links to "Home", "Computing & Cloud", "Data & Analytics", "Tools & Resources", "Third Party Services", and "News". A "FREE TRIAL" badge is also present. To the right of the navigation bar is a "Knowledgebase" dropdown menu and a search bar. The main content area features a large satellite image of a coastal region. Overlaid on this image is the text "ALL SATELLITE DATA AVAILABLE HERE" in large white letters. Below this, it states "Over 7.5 PB of data, and it will grow to more than 20 PB by 2020" and "Easy integration of additional data sets". A "Learn more" button is located on the left. On the right side of the main image, there are three highlighted features: "FREE DATA DISCOVERY" with a satellite icon, "FREE DATA BROWSER" with a cloud icon, and "FREE DATA DOWNLOAD" with a pie chart icon. Each feature has a right-pointing arrow. At the bottom, there are two sections: "TAILOR-MADE SOLUTIONS" on the left and "FEATURED DATA" on the right.

CREODIAS
powered by CloudFerro

Home Computing & Cloud Data & Analytics Tools & Resources Third Party Services News

FREE TRIAL Knowledgebase Search

ALL SATELLITE DATA AVAILABLE HERE

Over 7.5 PB of data, and it will grow to more than 20 PB by 2020
Easy integration of additional data sets

Learn more

FREE DATA DISCOVERY

FREE DATA BROWSER

FREE DATA DOWNLOAD

TAILOR-MADE SOLUTIONS FEATURED DATA

ACCESO A LOS DATOS



<https://www.onda-dias.eu/cms/>

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<https://www.wekeo.eu/>



[OUR USERS](#) [OFFER](#) [DATA](#) [DOCS](#) [BLOG](#) [SUPPORT](#)

Welcome to WEkEO!

WEkEO is the EU Copernicus DIAS reference service for environmental data, virtual processing environments and skilled user support. Discover our current offering and roadmap.



Getting started



Access data



Access cloud-based processing and tools



Contact user support

**WEkEO in 1 minute**



News and events

Try WEkEO at AtmosHack2018 Hackathon
Join us for the [AtmosHack2018](#), a weekend hackathon working with atmospheric data at the [Finnish Meteorological Service \(FMI\)](#) in Helsinki on 16-18 November 2018.

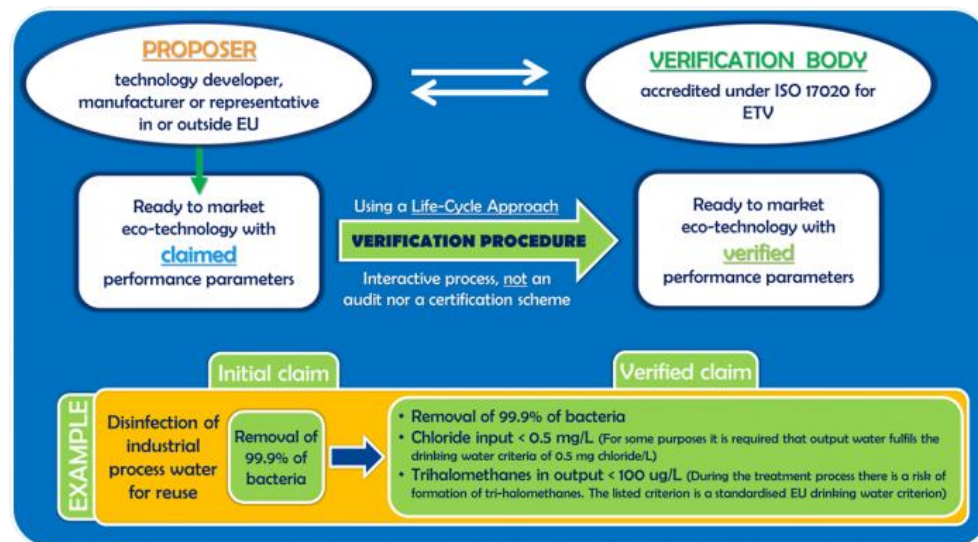
WEkEO Roadmap
Check out the [current roadmap for the WEkEO Platform](#).

Launch of the WEkEO Copernicus DIAS Service
June 20-21, 2018 | Baveno, Italy
The Baveno event, taking place on June 20-

ENVIRONMENTAL TECHNOLOGY VERIFICATION (ETV) PILOT PROGRAMME

- ✓ Esquema voluntario de verificación para tecnologías que cumplan:
 - Tecnologías medioambientales innovadoras
 - Listas para lanzar al mercado (TRL >7)
 - Cuyas características, rendimientos no estén cubiertas por estándares o regulaciones
 - Dentro de los sectores: tratamiento y monitorización agua, energía, materiales, vertidos y recursos

- ✓ Validación independiente
- ✓ No es un esquema de certificación. Proporciona información que permite comparar con otras tecnologías
- ✓ Para SMEs



THE GREEN BEST PRACTICE COMMUNITY



An expert-reviewed knowledge base of best practices for 11 sectors



THE GREEN BEST PRACTICE COMMUNITY

From BEMP reports to an online tool & community



Development of an on-line tool to:

- *make it is easy to find relevant best practices*
- *allow all stakeholders to propose best practices and case studies*
- *interact as a community*
- *discuss and validate proposed best practices efficiently*



ECO-MANAGEMENT AND AUDIT SCHEME (EMAS)



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Transparency

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DO YOU WANT TO
MOVE TOWARDS THE
CIRCULAR ECONOMY?

Start with EMAS



División de
Programas de la UE

@EsHorizonte2020

CDTI Centro para el Desarrollo Tecnológico Industrial | E.P.E.



CDTI

Centro para el
Desarrollo
Tecnológico
Industrial

@CDTIoficial

Monitoring framework for the circular economy

What is the circular economy about?

A circular economy aims to maintain the value of products, materials and resources for as long as possible by returning them into the product cycle at the end of their use, while minimising the generation of waste.

The fewer products we discard, the less materials we extract, the better for our environment.

This process starts at the very beginning of a product's lifecycle: smart product design and production processes can help save resources, avoid inefficient waste management and create new business opportunities.

[> read more](#)



HIGHLIGHTS



Monitor the progress of your country

Explore our monitoring framework tool which will help you to easily evaluate your country's progress towards a circular economy by displaying all relevant indicators.



Discover the circular economy

Our visualisation tool will help you to learn more about the circular economy in an easily-understandable and fun way.



Visualise flows of material resources

Explore the simplified life cycle of materials in the EU from the beginning through to material processing to their different uses and final stages.

DIRECT ACCESS TO...



Information on indicators



Tables



Policy context



Links

EXPLORE FURTHER



Statistical articles on environment

Have a look at our Statistics Explained articles on environment for a range of topics, such as climate change, material flows.



Waste statistics

Find all information and easy access to our data on waste, including topics such as generation and treatment of waste.

INDICADORES DE ECONOMÍA CIRCULAR



eurostat

Your key to European statistics

MONITORING FRAMEWORK

Please select a country from the drop down list below to get a detailed overview of its situation regarding the different indicators. You can then click on each dimension (or on the arrow) to expand/collapse the list of indicators belonging to this dimension. You may also enlarge the framework by clicking on the full screen mode icon below.

Please note that for some indicators displayed below, data is only available for the EU aggregate and not for Member States individually.

Choose a country: EU

CIRCULAR ECONOMY INDICATORS

 Expand All

 Collapse All



Production and consumption



Waste Management



Secondary raw materials



Competitiveness and innovation



OTRAS HERRAMIENTAS



Climate action, Environment, Resource Efficiency and Raw Materials

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Useful guides

**Keys to Successful Integration of Social Sciences and Humanities in H2020**

The integration of Social Sciences and Humanities research (SSH) in Horizon 2020 projects comes with great opportunities but also with certain challenges. For decades, the European research was mainly focused on the expertise of researchers specialised in life and physical sciences, technology, engineering and mathematics (STEM). Now, the Horizon 2020 policy looks further – it is a premise that integration of SSH aspects into European research is to generate new knowledge and produce interdisciplinary and innovative solutions to both societal and technological issues.

 Download

1MB

**EIP Water Conference 2017-Water Innovation: Bridging Gaps, Creating Opportunities**

The [EIP Water Conference 2017-Water Innovation](#) was held in Porto on 27th-28th September 2017. and [The programme](#), dedicated to “Water Innovation: Bridging Gaps, Creating Opportunities”, was built upon the innovative solutions to address major European and global water challenges, as well as market opportunities and how to remove barriers by advancing and leveraging existing solutions.

With over 1 000 delegates, 76 speakers and **65 presentations**, many projects and initiatives coming up most of them from the **Action Groups**, were introduced.

Download this report to learn more about this.

 Download

295.24 KB 0 downloads

ALGUNAS CONSIDERACIONES

	International Cooperation	Social Sciences & Humanities	Gender dimension	Clustering
LC-CLA-02				
LC-CLA-05				
LC-CLA-06				
LC-CLA-07				

ALGUNAS CONSIDERACIONES

	International Cooperation	Social Sciences & Humanities	Gender dimension	Clustering
CE-SC5-04-2019				
CE-SC5-07-2019				
CE-SC5-08-2019				
SC5-09-2019				
SC5-10-2019				
SC5-13-2019				
SC5-14-2019				
SC5-16-2019				
SC5-23-2019				
SC5-20-2019				
SC5-22-2019				

SEX AND GENDER



SEX VERSUS GENDER

Sex refers to the biological and physiological differences between men and women.

Sex has two main two categories: male and female.

Sex remains the same regardless of time and culture

Sex is created by the reproduction needs, that is, biological features.

Gender refers to the social and cultural differences between men and women.

Gender has two main categories: masculine and feminine.

Gender roles, expectations may differ across time and culture.

Gender distinctions are created by social norms.

SEX AND GENDER

Tres aspectos a considerar:

1. Igualdad de oportunidades en carreras científicas
2. Balance de género en comités de decisión
3. Aspectos de sexo y género en actividades y resultados del proyecto

Plan de igualdad de género. Medidas:

1. Realizar auditoría sobre procedimientos y prácticas para identificar puntos de intervención
2. Identificar e implementar estrategias innovadoras para corregir las deficiencias
3. Seleccionar objetivos y monitorizar progresos con indicadores

SEX AND GENDER

Ejemplos de buenas prácticas:

- ✓ Organizar seminarios sobre género
- ✓ Medidas de conciliación laboral
- ✓ “Persona Especial de Contacto” para asuntos de discriminación o violencia de género

Algunos “trucos”:

- ❖ Utilizar datos desagregados
- ❖ Usar metodologías que permitan análisis diferenciado
- ❖ Utilizar indicadores sensibles al género para medición de impacto por separado
- ❖ Evaluar los diseños con grupos separados y poner atención en las diferencias en la experiencia del usuario

LA PROPUESTA



CONTAR UNA HISTORIA AL EVALUADOR

THE CHALLENGE	The problem we want to solve
THE SOLUTION	The technical solution
THE PROJECT	What consist our project
THE MARKET	Who are we addressing?
IMPACT	How we will affect the market
THE CONSORTIUM	Who is in the consortium?

CLAVES DEL ÉXITO



RECOMENDACIONES EVALUADORES

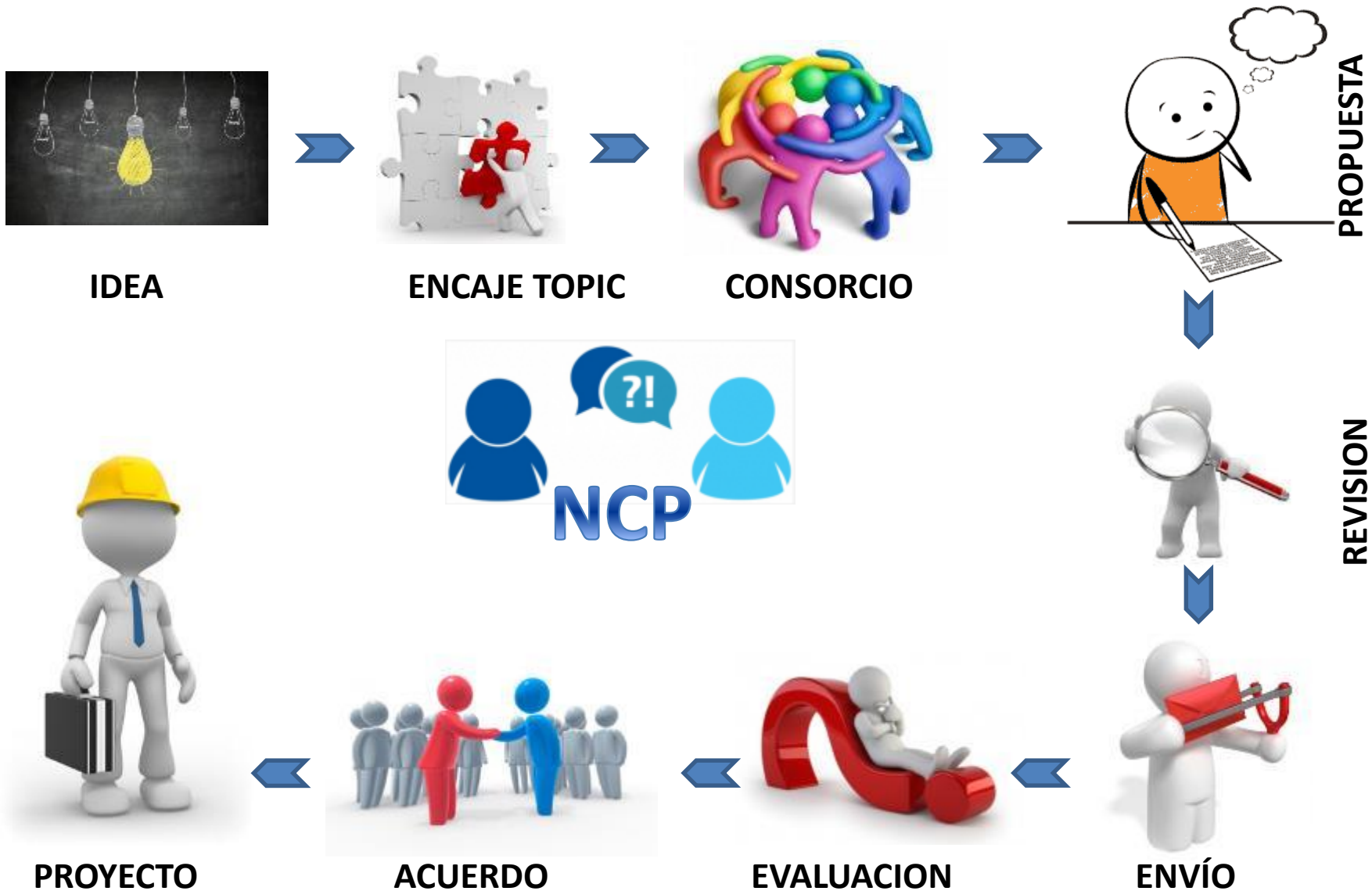


Criterion: Excellence

Main weaknesses in proposals	How to improve	Main strengths in proposals
• Lack of novelty • Lack of originality • Lack of clear objectives • Lack of credibility of the proposed approach • Ambition • Poor description of the state-of-the-art • Lack of precise indications of the advancements proposed • Low TRL • Lack of clear cost calculations • Not fully covered scope of call • Relation to the call • No link to industrial activity • Short explanations • Lack of tangible previous results specification • Repetition of already researched areas	• Elaborate on evaluation criteria • More interdisciplinary expertise • More clear description • More emphasis on impacts of technical features to business model • Close cooperation with NCPs • Wider point of view of excellence • Include more sub-criteria under excellence • Encourage new ideas • To have business or market related persons involved in writing • Feasibility study should be attached • To be more innovative • More focus on the state-of-the-art and proof of concept • Shorter writing and more precise information • Better guidelines on how to understand the scope of the call • Having the practical experience and know how in the field	• Objectives and methodology • Partnerships • Very detailed information - Relevant goals • Transdisciplinary considerations • Innovation potential • State of the art • Clear stated technical issues • High quality and linkages with previous or existing initiatives • The links with the Environmental EU / global challenges on energy/climate change • Ability to complement across countries and institutions • Concise, accurate and complete presentation



SOPORTE A LOS PARTICIPANTES



Red Exterior CDTI: presencia en 28 países



PARA ACABAR



Reto Social 5: Acción por el clima, medioambiente, eficiencia en los recursos y materias primas

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http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-climate_en.pdf



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