

Jornada Connect-EU

Impulsa el teu projecte d'**R+D**
i **innovació** a Europa



Co-organitzadors:
ACCIÓ i AGAUR

Amb el suport de:
iberCaja



Sessió - Clima, medi ambient, eficiència dels recursos i matèries primeres

Sr. Josep Graupera, SUEZ - Cetaqua

Dr. Sergi Ponsá, Centre Beta, UVic

Dr. Joan Masó, UAB

Modera: **Sandra Colom, ACCIÓ**

Oportunitats dins Work Programme 2018-2020



Barcelona, 6 de novembre de 2017

Jennifer Ruiz / Sandra Colom i Cabré

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ACCIÓ





2/19/20



Living well, within the limits of our planet

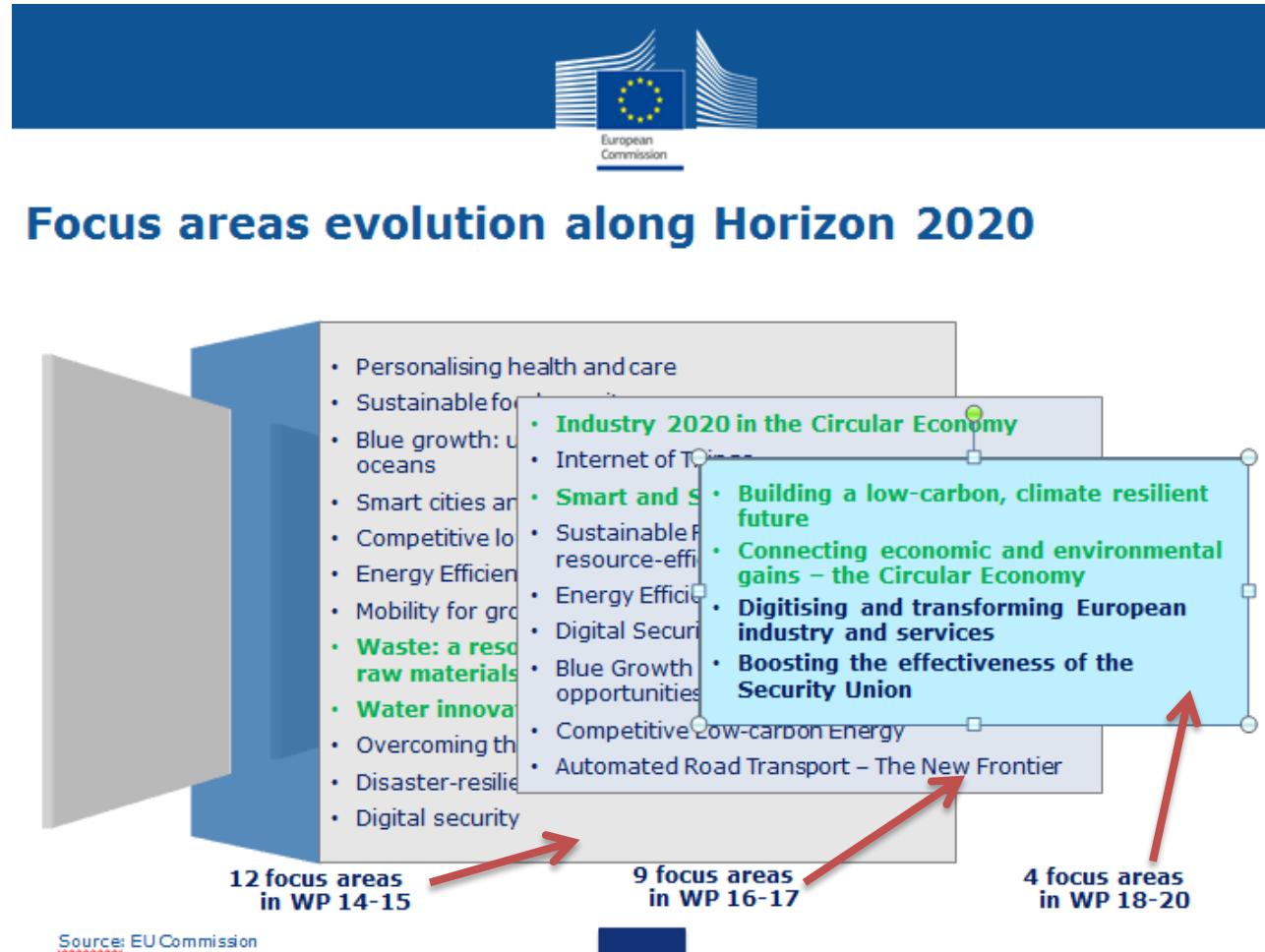
*Proposal for a general Union
Environment Action Programme*



Pressupost H2020



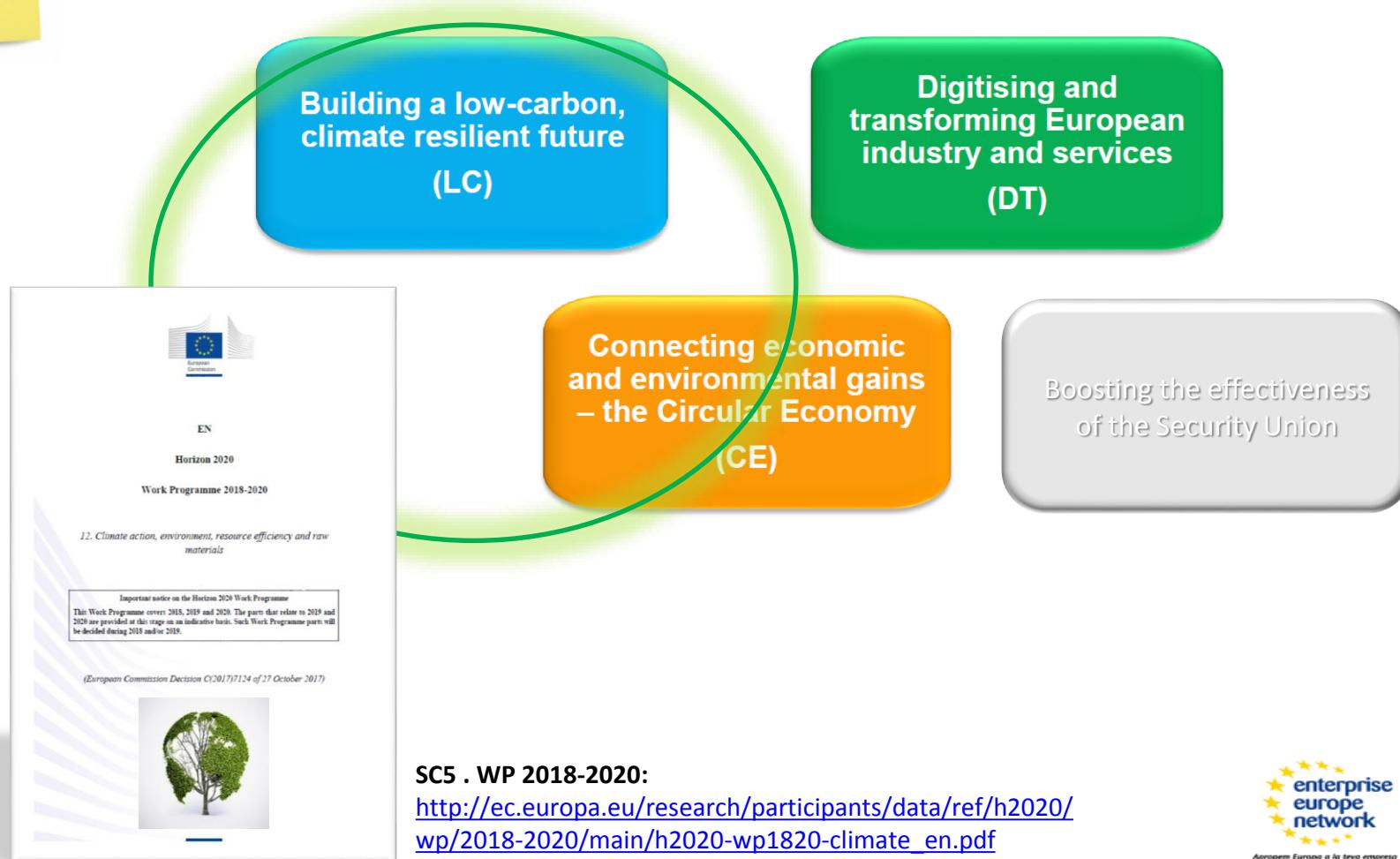
Prioritats H2020



Important
Information

Prioritats H2020

Focus Areas





H2020 – Programa de Trabajo 2018-2020

Focus Area:

Building a low-carbon, climate resilient future (LC)

Aims to achieve:

- operationalisation of the **Paris Agreement (PA)** goals, on the basis of high quality policy-relevant evidence from the scientific community
- accelerated transformation **towards carbon neutrality**, through co-design, co-development and co-deployment of technologies and services by researchers, entrepreneurs and citizens
- enhanced **climate resilience** in Europe and beyond
- long term **mitigation** and **adaptation** policy planning, deployment of technology to reduce emissions and enhanced climate change resilience in developing countries

→ Total estimated budget **€3,341 million**

H2020 – Programa de Trabajo 2018-2020

Focus Area:

Connecting economic and environmental gains – the Circular Economy (CE)

Aims to achieve:

- a **much better use of resources**, including energy and raw materials
- significant **reductions in waste and pollution**
- **sustaining** and making use of **natural cycles**
- **competitive advantages** for existing businesses
- **opportunities** for new businesses, including disruptive innovation

→ Total estimated budget **€960 million**

27/03/2017



Reto Social 5 – Programa de Trabajo 2018-2020

Climate Action in support of the Paris Agreement

Circular Economy

Water for our environment, economy and society

Innovating Cities for sustainability and resilience

PRIORIDADES ESTRATÉGICAS

Raw Materials

Protecting and valorising our natural and cultural assets:
Earth observation

Protecting and valorising our natural and cultural assets:
Nature-based solution, disaster risk reduction and natural capital accounting

Protecting and valorising our natural and cultural assets:
Heritage alive



ACCIÓN



Reto Social 5 – Programa de Trabajo 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

LC

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

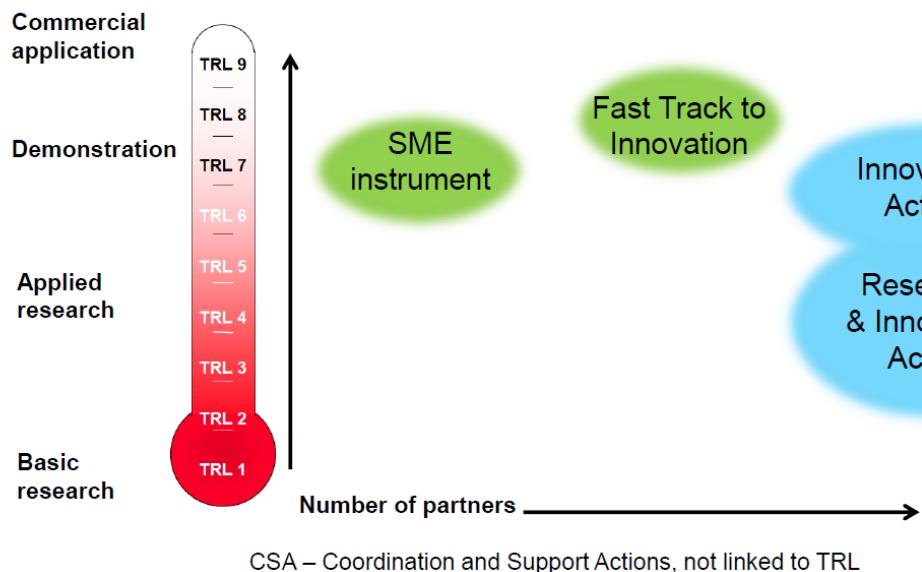
- Connecting economic and environmental gains – the circular economy
- Raw materials
- Water for our environment, economy and society CE
- Innovating cities for sustainability and resilience
- Earth observation
- Nature-based solutions, disaster risk reduction and natural capital accounting
- Heritage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

27/10/2018

Reto Social 5 – Programa de Trabajo 2018-2020: Análisis iniciales

Call	2018 (M€)	2019 (M€)	2020 (M€)			
Building a low-carbon, climate resilient future: climate action in support of the Paris Agreement (PA)	123	111	192			
Greening the economy in line with the Sustainable Development Goals (SDGs)	219,7	259	81			
TOTAL	342,7	370	273			
Type of Action	2018 % Presup.	Nº	2019 % Presup.	Nº	2020 % Presup.	Nº
RIA	74,4%	16	40,3%	11	-	12?
IA	21,3%	4	55,4%	9	-	3?
CSA	4,3%	6	1,6%	3	-	2?

Technology Readiness Levels



ACCIÓ

Generalitat
de Catalunya

bottom-up
top-down



	Research & Innovation Action	Innovation Actions	SME-instrument	Fast Track to Innovation
For	All organisations	All organisations	SME	SME and industry in lead
TRL	3-5	6-7	6-8	6-8
Partners	Minimum 3 partners from 3 countries	Minimum 3 partners from 3 countries	Not needed	3-5 partners from 3 countries
Funding	Depending on topic 100% non-profit 70% industry	Depending on topic 100% non-profit 70% industry	Phase 1: 50 k€ Phase 2: € 0,5-2,5 mln (70%)	Max € 3 million 100% non-profit 70% industry
Project duration	3-5 years	2-3 years	Phase 1: 0,5 years Phase 2: 1-2 years	Max. 3 years



Important
Information

Reto Social 5 – Programa de Trabajo 2018-2020: Algunos detalles

Important notice on the Horizon 2020 Work Programme

This Work Programme covers 2018, 2019 and 2020. The parts that relate to 2019 and 2020 are provided at this stage on an indicative basis. Such Work Programme parts will be decided during 2018 and/or 2019.



IMPORTANTE.-

Además del “topic”, **información relevante** en:

- **Introducción** del Programa de Trabajo (referencia a políticas e iniciativas europeas)
- **Introducción** de las “calls” y de los bloques, “sub-calls”, (referencia a otros “topics”/áreas de interés)
- **“Call-conditions”** al final de cada convocatoria

27/10/2017





Reto Social 5 – Programa de Trabajo 2018-2020: Algunos detalles

MARK YOUR
CALENDAR!

Calls	PROCEDURE	OPENING	DEADLINES Single Stage o 1st Step (Two Stages)	DEADLINES 2nd Step (Two Stages)
2018	Single Stage	07/11/2017	27/02/2018	
2018	Two Stages	07/11/2017	27/02/2018	04/09/2018
2019	Single Stage	14/11/2016	19/02/2019	
2019	Two Stages	14/11/2016	19/02/2019	04/09/2019
2020			<i>To be defined</i>	



Single Stage → for CSAs and ERANETs
Two Stage → for RIAs* and IAs

* SCS-12-18 (RIA) is the only exception

27/02/2017



Centro para el
Desarrollo
Tecnológico
Industrial



Altres programes EU ...



<http://4prima.org/>

<http://ec.europa.eu/environment/life/index.htm>

THEMATIC AREAS



PRIMA Implementation

- Calls under **annual Work Plans**, based on SRIA.
- **Management** of the calls by DIS.
- **Calls**.-
 - ★ – **Section 1**.- EU funds in form of actions “H2020 like”
 - ★ – **Section 2**.- “ERA-NET like” with national funds. Spain will support both public and private entities.
 - **Section 3**.- Participating States Initiated Actions (PSIAs) – national research programmes managed and funded by PS + Activities supporting programme operation.
- **First Work Plan in 2018**, (under evaluation):
 - **Calls to be launched early in 2018**
 - **Indicative budget: €20 million by EU and at least €30 million by PS**

ACCIÓ

16/10/2017

Work Plan 2018: Thematic Area 1- Management of Water



R&I priorities	Type of action / Section
Water resources availability and quality within catchments and aquifers	RIA (Research and Innovation Action) Section 2 (ERANET like – PS funds)
Sustainable, integrated water management	RIA (Research and Innovation Action) Section 2 (ERANET like – PS funds)
Irrigation technologies and practices	RIA (Research and Innovation Action) Section 2 (ERANET like – PS funds)
Water reuse and water desalination for agricultural and food production	RIA (Research and Innovation Action) Section 1 (H2020 like – EU funds)

16/10/2017

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@acció_cat

ACCRA BERLÍN BOGOTÀ BOMBAI BRUSSEL·LES BUENOS AIRES CASABLANCA COPENHAGUEN DUBAI HONG KONG INSTANBUL JOHANNESBURG LIMA LONDRES MÈXIC DF MIAMI MILÀ MONT-REAL MOSCOU NOVA YORK PARÍS PEQUÍN SANTIAGO DE XILE SAO PAULO SEÜL SYDNEY SILICON VALLEY SINGAPUR STUTTGART TEL AVIV TÒQUIO VARSÒVIA WASHINGTON DC XANGAI

ACCIÓ

Generalitat
de Catalunya



Sessió - Clima, medi ambient, eficiència dels recursos i matèries primeres

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CETAQUA
BARCELONA

CETAQUA
Water Technology Center

Jornada Connect-EU (ACCIÓ)
06/11/2017

CETAQUA

La nostra missió

CETAQUA
BARCELONA

Cetaqua, com a centre tecnològic de referència, aporta valor dins el Grup Suez en la creació de coneixement i desenvolupament de tecnologies relacionades amb el cicle de l'aigua.



REUTILITZACIÓ I
GESTIÓ DELS
RECURSOS HÍDRICS



SOSTENABILITAT



AIGUA 4.0



QUALITAT



SENAJAMENT I
VALORIZACIÓ



XARXES

CETAQUA

BARCELONA

Fundació creada el 2007

 Aigües de
Barcelona

 CSIC
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS



Els nostres projectes

CETAQUA BARCELONA TAQUA CELONA

Cartera global



Aigües de
Barcelona



> 300 projectes de finançament privat (Aigües de Barcelona and altres companies del Grup Suez principalment)



> 50 projectes col·laboratius de finançament públic, amb 14 projectes LIFE (12 com a coordinadors), 10 FP7 i 6 H2020.

Cartera en curs



> 70 ongoing projects

THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020



H2020 Water Calls

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BARCELONA

**Programa de Treball
2014-2015**

- WATER-1-2014/2015: Bridging the gap: from innovative water solutions to market replication
- WATER-2-2014/2015: Integrated approaches to water and climate change
- WATER-3-2014/2015: Stepping up EU research and innovation cooperation in the water area
- WATER-4-2014/2015: Harnessing EU water research and innovation results for industry, agriculture, policy makers and citizens
- WATER-5-2014/2015: Strengthening international R&I cooperation in the field of water

11 tòpics

3 RIA + 2 IA + 4 CSA
+ 2 ERA-NET

163 M€

**Programa de Treball
2016-2017**

- SC5-11-2016: Supporting international cooperation activities on water
- SC5-12-2016: Food systems and water resources for the development of inclusive, sustainable and healthy Euro-Mediterranean societies
- SC5-33-2017: Closing the water gap

3 tòpics

2 CSA + 1 ERA-NET

14 M€

On és l'aigua??



WP 2016-2017 l'aigua s'incorpora com una temàtica transversal en altres eixos del programa. Alguns exemples són:

**Programa de Treball
2016-2017**

SC5-01-2016-2017: Exploring the added value of climate services

SC5-03-2016: Climate services market research

SC5-08-2017: Large-scale demonstrators on nature-based solutions for hydrometeorological risk reduction

CIRC-02-2016-2017: Water in the context of the circular economy

SCC-02-2016-2017: Demonstrating innovative nature-based solutions in cities

SPIRE-01-2016: Systematic approaches for resource-efficient water management systems in process industries

CIP-01-2016-2017: Prevention, detection, response and mitigation of the combination of physical and cyber threats to the critical infrastructure of Europe.

Nova tendència en l'enfocament de projectes: cerca de solucions que s'integren en cicle integral de l'aigua → no focalitzar-se en problemàtiques puntuals

H2020 Water Calls

CETAQUA
BARCELONA

WP 2018-2020 es segueix la mateixa línia que l'anterior WP i trobem les convocatòries integrades en altres temàtiques:

Programa de Treball
2016-2017

- SC5-11-2018: Digital solutions for water: linking the physical and digital world for water solutions
- CE-SC5-04-2019: Building a water-smart economy and society
- LC-CLA-03-2018: Climate impacts in Europe
- CE-SFS-25-2018: Integrated system innovation in valorising urban biowaste
- SU-DRS03-2018-2019-2020: Pre-standardisation for the security of water supply



Iniciativa PRIMA: fons H2020 destinats al nexe aigua-agricultura-alimentació

Conseqüències d'aquest nou enfocament:

- ✓ Distribució de la competitivitat en el camp de l'aigua
- ✓ Creació de consorci multidisciplinaris i multisectorials → col·laboració amb agents d'altres sectors
- ✓ Aproximació d'un producte/servei final més proper a mercat → cooperació amb l'usuari final
- ✓ Enrichiment dels resultats obtinguts → visió transversal de la problemàtica

ELABORACIÓ DE PROPOSTES



Elaboració de propostes

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BARCELONA

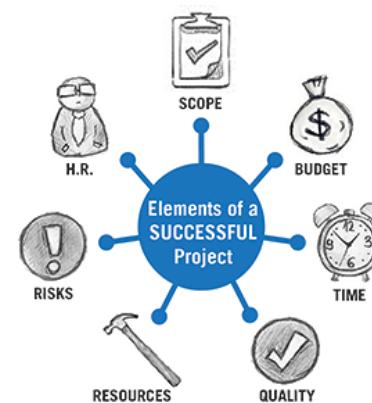
1. Posicionament a nivell europeu



2. Identificació de socis clau

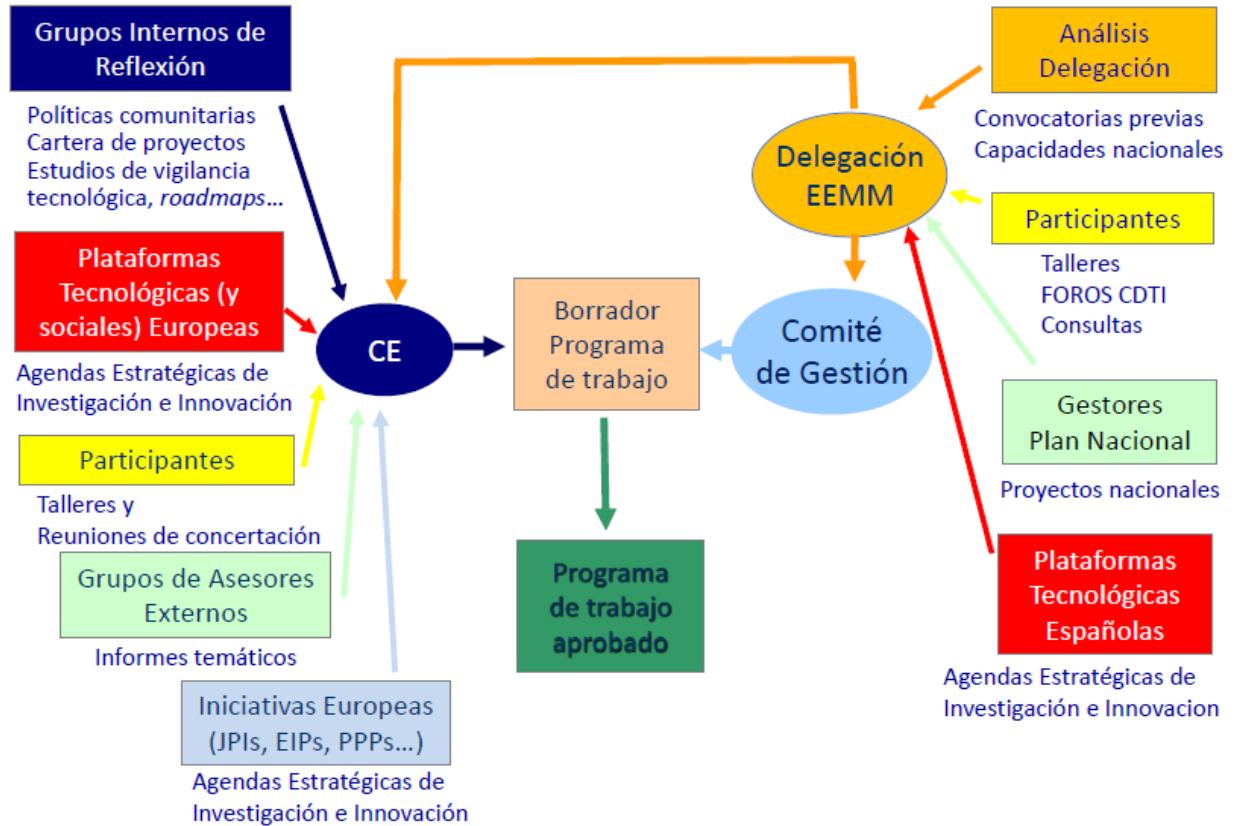


3. Preparació d'una proposta guanyadora



Elaboració de propostes: Posicionament a nivell europeu

CETAQUA
BARCELONA

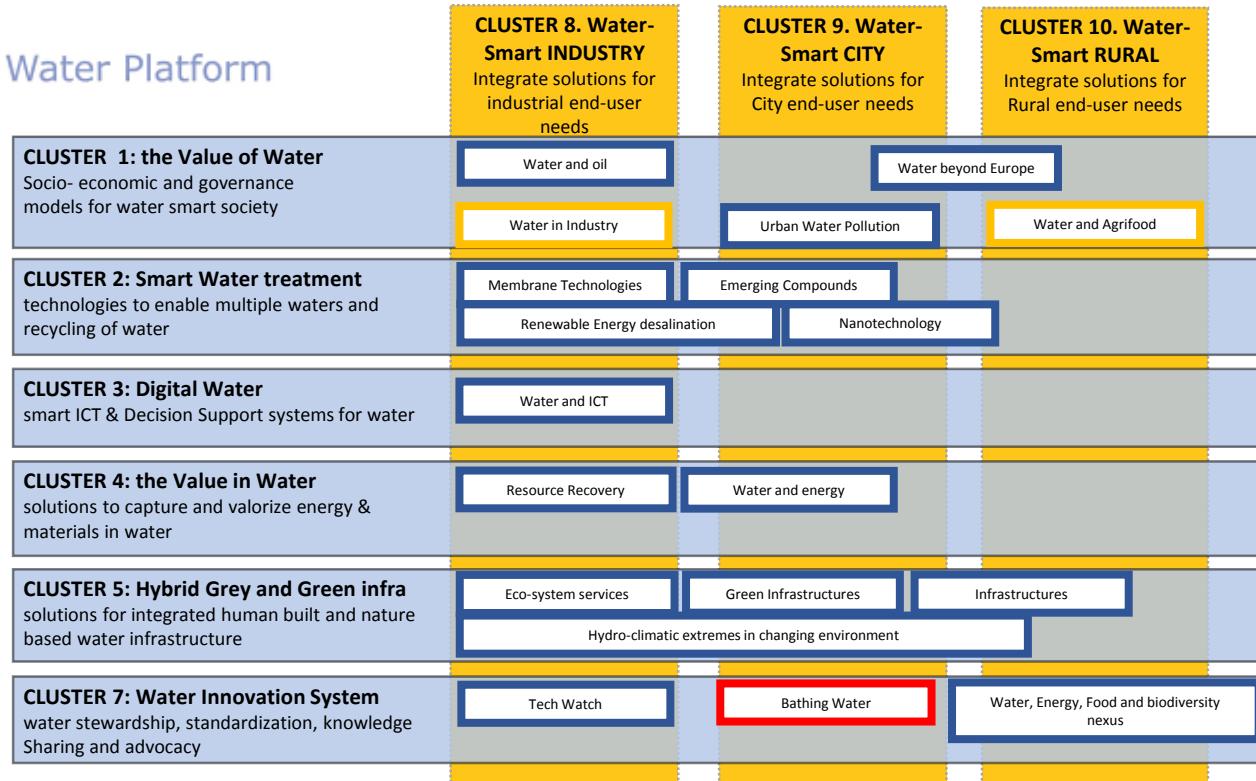


Elaboració de propostes: Posicionament a nivell europeu

CETAQUA
BARCELONA

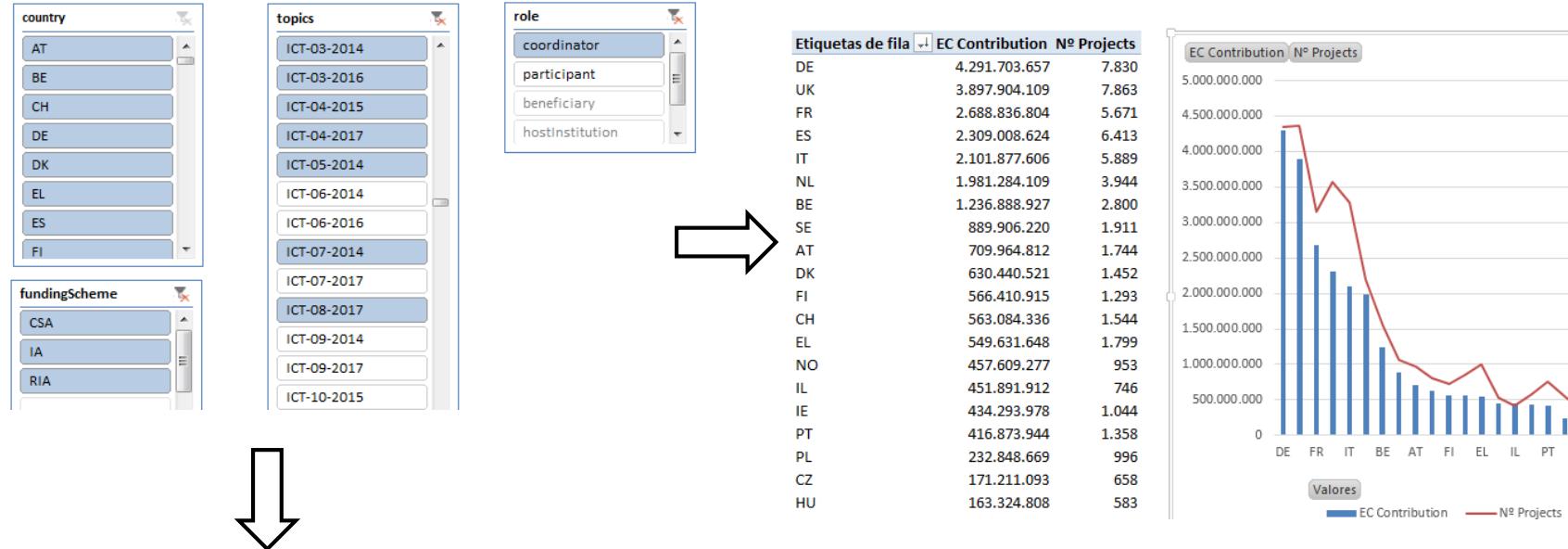


The European Water Platform



Elaboració de propostes: Identificació de socis clau (“Partner Tool”)

CETAQUA
BARCELONA



Elaboració de propostes: Identificació de socis clau (“Partner Tool”)

CETAQUA
BARCELONA

Resilience & Security	Nº projects	Budget
FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.	10	5.449.470,00 €
ENGINEERING - INGEGNERIA INFORMATICA SPA	5	3.543.755,00 €
ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS	4	2.665.434,00 €
NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO	4	2.116.088,75 €
D'APPOLONIA SPA	4	1.056.813,75 €

Agriculture & Sustainable Food	Nº projects	Budget
INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE	17	7.888.172,85 €
STICHTING WAGENINGEN RESEARCH	12	6.895.182,75 €
WAGENINGEN UNIVERSITY	7	3.680.372,37 €
AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	7	2.622.161,25 €
INRA TRANSFERT S.A.	5	1.287.887,50 €

ICT	Nº projects	Budget
FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.	29	18.061.849,45 €
COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES	11	8.645.977,02 €
STIFTELSEN SINTEF	9	5.131.138,00 €
ATOS SPAIN SA	8	2.552.562,50 €
INSTITUTE OF COMMUNICATION AND COMPUTER SYSTEMS	8	3.569.297,50 €

SPIRE (Sustainable Process Industry through Resources and Energy)	Nº projects	Budget
FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.	6	4.410.602,50 €
FUNDACION TECNALIA RESEARCH & INNOVATION	5	3.962.366,25 €
VDEH-BETRIEBSFORSCHUNGSIINSTITUT GMBH	4	2.911.952,50 €
Teknologian tutkimuskeskus VTT Oy	4	3.010.713,75 €
OPTIMIZACION ORIENTADA A LA SOSTENIBILIDAD SL	4	1.387.838,75 €

Elaboració de propostes:

Preparació d'una proposta guanyadora

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- ✓ Incloure tots els actors rellevants de la cadena de valor → no oblidar els actors socials (Projectes multidisciplinaris)
- ✓ Anàlisi dels Roadmaps de grans iniciatives (ETPs, PPPs, EIPs), plans estratègics de la CE, Working papers de les DG, ...
- ✓ Context i objectius clars i concisos → els avaluadors no tenen que ser necessàriament experts en la temàtica
- ✓ Secció Impacte és la part més rellevant en les IA (x1,5): pla d'explotació, Business plan, gestió IP, pla difusió, pla comunicació, ...
- ✓ Quantificació dels impactes → definició de KPIs
- ✓ Revisió amb ulls d'avaluador

DEVELOPING PROJECTS, CREATING VALUE

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<https://www.youtube.com/user/Cetaqua>

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Jornada Connect-EU 2017

SC5. Climate Action, Environment, Resource Efficiency and Raw Materials Evolution of WASTE calls/topics and successful experiences



www.betatechcenter.com

@BETA_TechCenter

Sergio Ponsá
Barcelona, 06/11/2017



Evolution of WASTE calls/topics on H2020



FP7-2013-ENV. 6.3. Improving Resource Efficiency:

Research and innovation will promote the development and testing of highly eco-innovative technologies, processes and services to **valorise urban wastes** and **recover raw materials from industrial wastes**, favouring a bottom-up approach, while also considering macro-level impacts, including rebound effects.

FP7-2012-ENV. 6.3 Improving resource Efficiency:

The overall objective of this challenge is to fasten the transition towards a culture of '**saving, re-use and recycling**' to achieve smart and greener growth and build up more sustainable patterns for consumption and production.

Evolution of WASTE calls/topics on H2020

HORIZON 2020

WORK PROGRAMME 2014 – 2015



12. Climate action, environment, resource efficiency and raw materials

Call – Waste: A Resource to Recycle, Reuse and Recover Raw Materials 6

WASTE-1-2014: Moving towards a circular economy through industrial symbiosis	8
WASTE-2-2014: A systems approach for the reduction, recycling and reuse of food waste	10
WASTE-3-2014: Recycling of raw materials from products and buildings	11
WASTE-4-2014/2015: Towards near-zero waste at European and global level.....	12
WASTE-5-2014: Preparing and promoting innovation procurement for resource efficiency	15
WASTE-6-2015: Promoting eco-innovative waste management and prevention as part of sustainable urban development	16
WASTE-7-2015: Ensuring sustainable use of agricultural waste, co-products and by-products	18

TAMBÉ A
ALTRES CALLS
DE MANERA
TRANSVERSAL

Evolution of WASTE calls/topics on H2020

RESEARCH AND INNOVATION ACTIONS

- BBI VC1.R1 – 2014: Efficient pre-treatment of lignocellulosic feedstock to advanced bio-based chemicals and biomaterials
- BBI VC2.R2 – 2014: New sustainable pulping technologies
- BBI VC2.R3 – 2014: New products from sustainable cellulose pulp exploitation
- BBI VC2.R4 – 2014: Fibres and polymers from lignin
- BBI VC2.R5 - 2014: Sugars from effluents of the pulping process and discharged fibres
- BBI VC3.R6 – 2014: Fermentation processes to obtain biosurfactants and specialty carbohydrates from agricultural and agro-industrial streams



BBI VC3.R7 – 2014: Protein products from plant residues

BBI VC3.R8 – 2014: Bioactive compounds from meso-organism's bioconversion

BBI VC4.R9 – 2014: Valuable products from heterogeneous biowaste streams

BBI VC4.R10 – 2014: Nutrient recovery from biobased waste streams and residues

INNOVATION ACTIONS: DEMONSTRATION

BBI VC1.D1 – 2014: Lignocellulosic residues to (di)carboxylic acids, diols and polyols

BBI VC1.D2 – 2014: Chemical building blocks and value-added materials through integrated processing of wood

BBI VC2.D3 – 2014: Advanced products from lignin and cellulose streams of the pulp and paper industry

BBI VC3.D4 – 2014: Functional additives from residues from the agro-food industry

BBI VC4.D5 – 2014: Cost efficient manure valorisation on large scale

INNOVATION ACTIONS: FLAGSHIP

BBI VC3.F1 – 2014: Added value products from underutilised agricultural resources

Evolution of WASTE calls/topics on H2020

Horizon 2020

Work Programme 2016 - 2017

12. Climate action, environment, resource efficiency and raw materials

- Climate services
- Towards a low-carbon Europe
- Nature-Based solutions for territorial resilience
- Water (2 SCA and 1 ERA-NET Cofund)
- Raw Materials
- Earth Observation
- Cultural Heritage for sustainable growth
- Support to policy and preparing for innovation procurement

**NO SPECIFIC
CALLS/TOPICS
ON WASTE**

Evolution of WASTE calls/topics on H2020

Horizon 2020

Work Programme 2016 - 2017

17. Cross-cutting activities (Focus Areas)

SUSTAINABLE PROCESS INDUSTRIES-SPIRE

SPIRE-03-2016: Industrial technologies for the valorisation of European bio-resources into high added value process streams 51

CIRCULAR ECONOMY 72

CIRC-01-2016-2017: Systemic, eco-innovative approaches for the circular economy: large-scale demonstration projects 74

CIRC-02-2016-2017: Water in the context of the circular economy 78

CIRC-03-2016: Smart Specialisation for systemic eco-innovation/circular economy 82

CIRC-04-2016: New models and economic incentives for circular economy business 83

CIRC-05-2016: Unlocking the potential of urban organic waste 85

Evolution of WASTE calls/topics on H2020

Horizon 2020

Work Programme 2016 - 2017

9. Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy

Sustainable Food Security – Resilient and resource-efficient value chains

SFS-48-2017: Resource-efficient urban agriculture for multiple benefits – contribution to the EU-China Urbanisation Partnership

SFS-35-2017: Innovative solutions for sustainable food packaging

Blue Growth - Demonstrating an ocean of opportunities

BG-07-2017: Blue green innovation for clean coasts and seas

Evolution of WASTE calls/topics on H2020

Horizon 2020

Work Programme 2016 - 2017

9. Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy

Bio-based innovation for sustainable goods and services - Supporting the development of a European Bioeconomy- H2020-BB-2016-2017

BB-06-2016: The regional dimension of bio-based industries

Evolution of WASTE calls/topics on H2020



Evolution of WASTE calls/topics on H2020

Horizon 2020

Work Programme 2018-2020

12. Climate action, environment, resource efficiency and raw materials

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

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

Connecting economic and environmental gains - the circular economy

CE-SC5-01-2018: Methods to remove hazardous substances and contaminants from secondary raw materials

CE-SC5-02-2018: Independent testing programme on premature obsolescence

CE-SC5-03-2018: Demonstrating systemic urban development for circular and regenerative cities

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

CE-SC5-05-2018: Coordinated approaches to funding and promotion of research and innovation for the circular economy

Evolution of WASTE calls/topics on H2020

Horizon 2020

Work Programme 2018-2020

12. Climate action, environment, resource efficiency and raw materials

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

Raw materials

CE-SC5-06-2018: New technologies for the enhanced recovery of by-products

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 the circular economy

SC5-09-2018-2019: New solutions for the sustainable production of raw materials SC5-10-2019-2020: Raw materials innovation actions: exploration and Earth observation in support of sustainable mining

Evolution of WASTE calls/topics on H2020

Horizon 2020

Work Programme 2018-2020

9. Food security, sustainable agriculture and forestry, marine, maritime and inland water research and the bioeconomy

Call - Sustainable Food Security

Call - Rural Renaissance

Leadership in enabling and industrial technologies (LEIT)

Horizon 2020

Work Programme 2018-2020

5.ii. Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing

2.2 BIOTECHNOLOGY

3.1. SUSTAINABLE PROCESS INDUSTRY (SPIRE)

3.2. CATALYSING THE CIRCULAR ECONOMY

Evolution of WASTE calls/topics on H2020

Calls/Topics
específics sobre la
temàtica de
Residus



SC5. Climate Action, Environment, Resource
Efficiency and Raw Materials



Consideració
transversal i
complementaria
a altres Calls i
Programes



SC5. Climate Action, Environment, Resource
Efficiency and Raw Materials

SC2. Food security, sustainable agriculture and forestry, marine,
maritime and inland water research and the bioeconomy

LEIT. Nanotechnologies, Advanced Materials, Biotechnology and
Advanced Manufacturing and Processing

Successful experiences and tips on SC5-H2020



Supported by the Framework
Programme *Horizon2020*
of the European Union

SMART-Plant member of the European
Sustainable Phosphorus Platform



SMART-Plant is a member
of the ICT4WATER cluster



H2020-SC5-Water 2015
Scale-up of low-carbon footprint MAterial Recovery
Techniques in existing wastewater treatment PLANTS

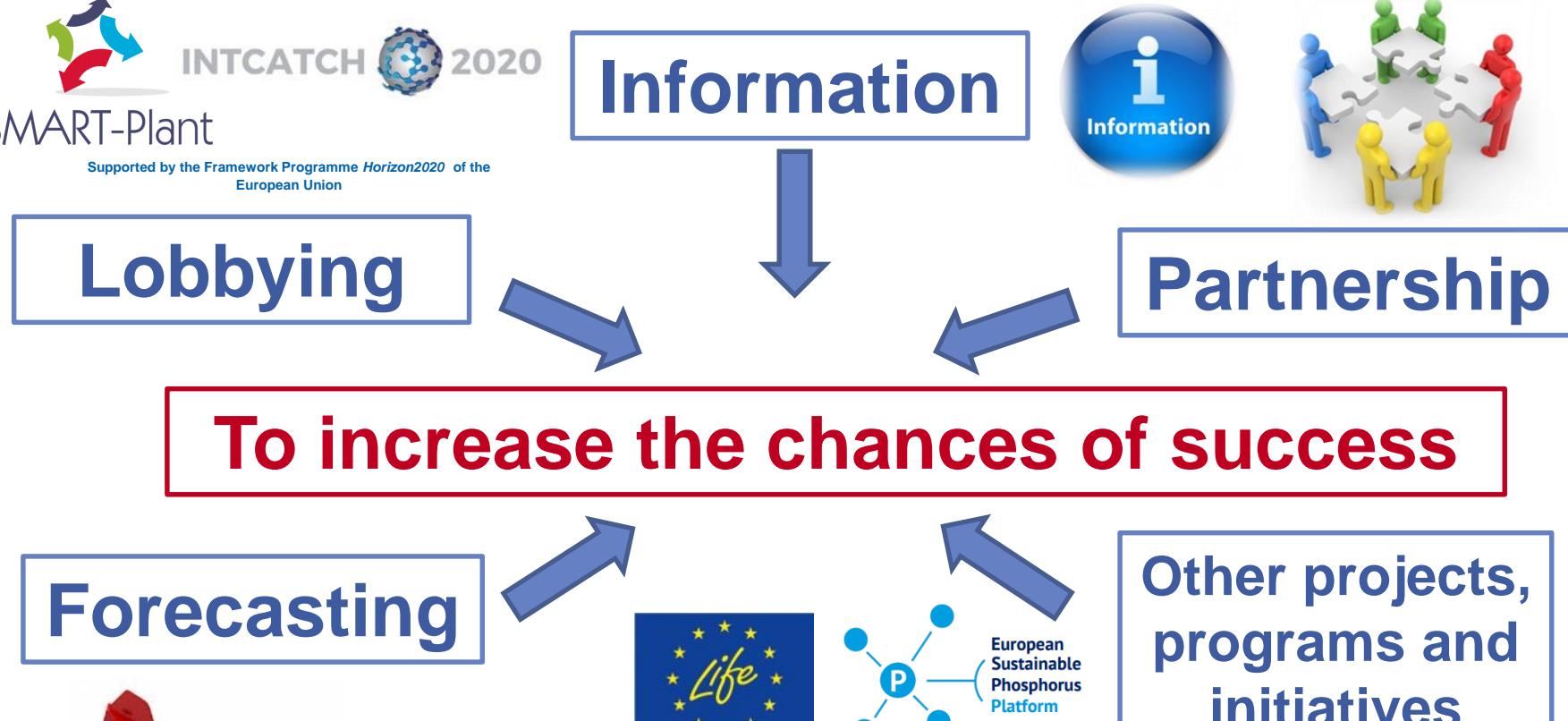
<http://smart-plant.eu/>
[@smart_plant_eu](https://twitter.com/smart_plant_eu)



Circular
Economy
Concept



Successful experiences and tips on SC5-H2020



Jornada Connect-EU 2017

SC5. Climate Action, Environment, Resource Efficiency and Raw Materials Evolution of WASTE calls/topics and successful experiences



www.betatechcenter.com

@BETA_TechCenter

Sergio Ponsá

Barcelona, 06/11/2017

sergio.ponsa@uvic.cat



Sessió - Clima, medi ambient, eficiència dels recursos i matèries primeres

Sr. Josep Graupera, SUEZ - Cetaqua

Dr. Sergi Ponsá, Centre Beta, UVic

Dr. Joan Masó, UAB

Modera: **Sandra Colom, ACCIÓ**



Bloc II. Sala F: Clima, mediambient,
eficiència dels recursos i matèries primeres

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Investigador del CREAF (Campus UAB)
GRUMETS SGR

Joan.Maso@uab.cat

Jornada Connect-EU

6 de novembre 2017

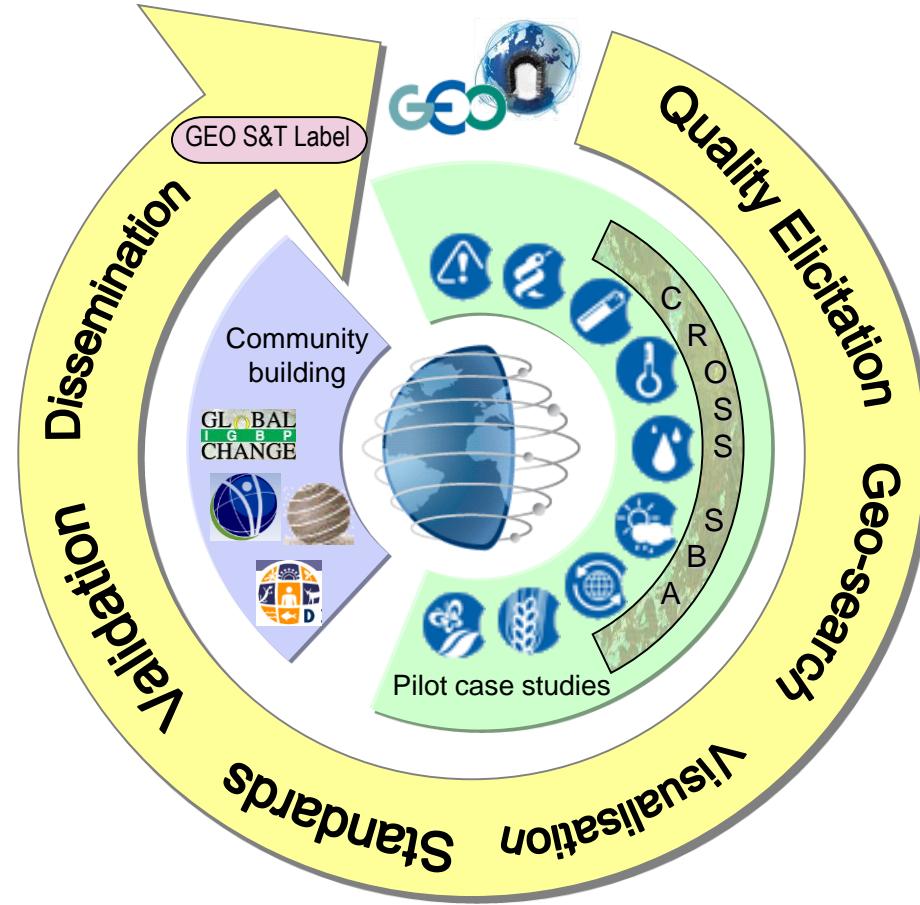
Palau de Congressos de Catalunya

accio.gencat.cat/connecteu

Impulsa el teu projecte d'**R+D**
i **innovació** a Europa

GeoViQua project

GeoViQua provides a set of scientifically developed software components and services that facilitate the **creation, search and visualization of quality information** on EO data integrated and validated in the GEOSS Common Infrastructure.



EGIDA Project



IVL



Jožef Stefan Institute, Ljubljana, Slovenia

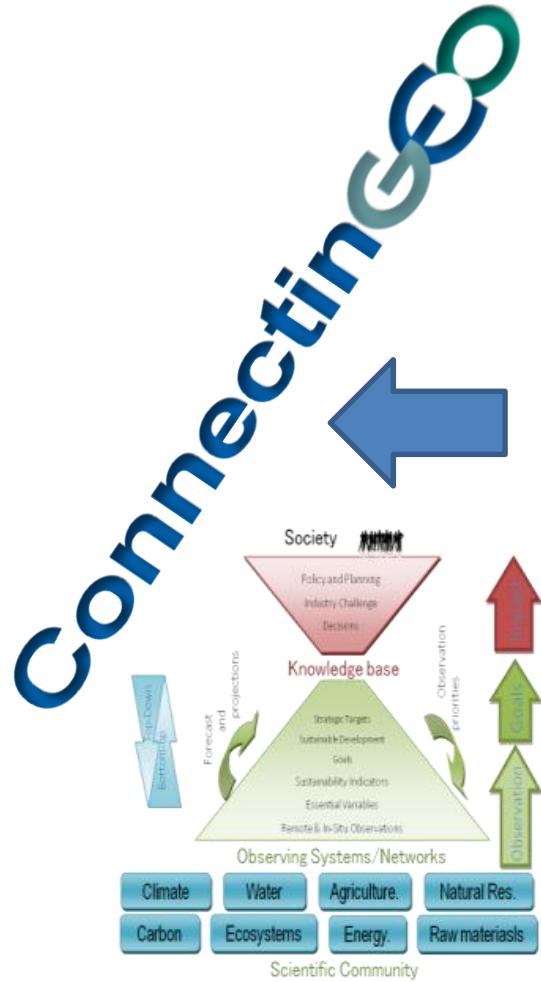


MAX-PLANCK-GESELLSCHAFT

BLB



ConnectinGEO in brief



- H2020 funded project that lasted 2 years (641538) in the Societal Challenge 5 “Climate action, environment, resource efficiency and raw materials”
- A contribution of the EU to EO and GEOSS
- Coordinate and Support Action (CSA)
- Consortium of 15 partners
- Finalized in February 2017



WaterInnEU: Applying European market leadership to river basin networks and spreading of innovation on water ICT models, tools and data.

Connect the outcomes developed in previous EU funded activities with the already existing data available at European level.

Offer an independent **marketplace** as a service for users that allows them to access products and services best fitting their priorities, capabilities and procurement processes.

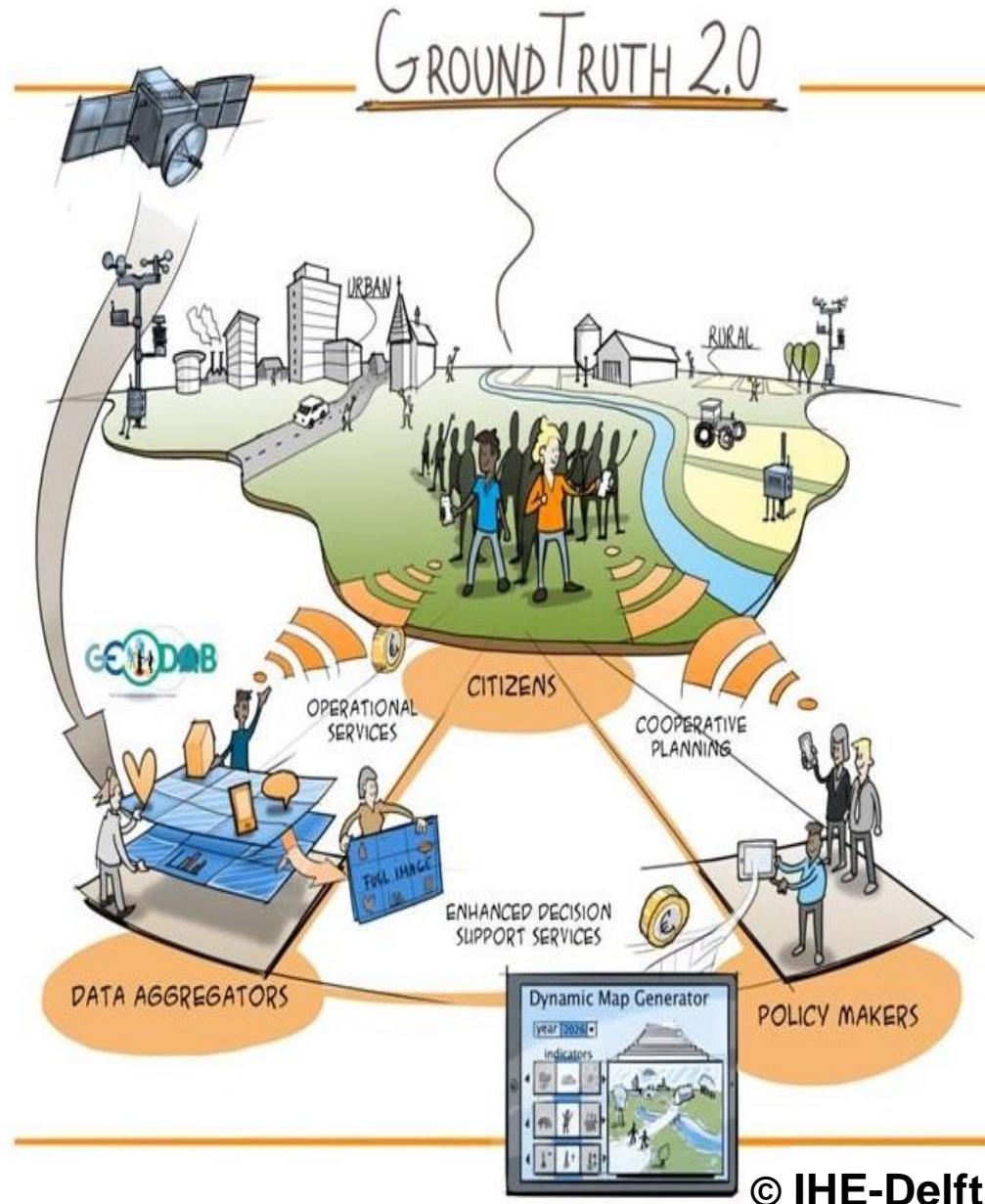


ECOPOTENTIAL

ECOPOTENTIAL is a large European-funded H2020 project that focuses its activities on a targeted set of internationally recognized Protected Areas (mountain, arid and semi-arid, and coastal and marine ecosystems), blending Earth Observations from remote sensing and field measurements, data analysis and modelling of current and future ecosystem conditions and services.

ECOPOTENTIAL considers cross-scale geosphere-biosphere interactions at regional to continental scales, addressing long-term and large-scale environmental and ecological challenges.

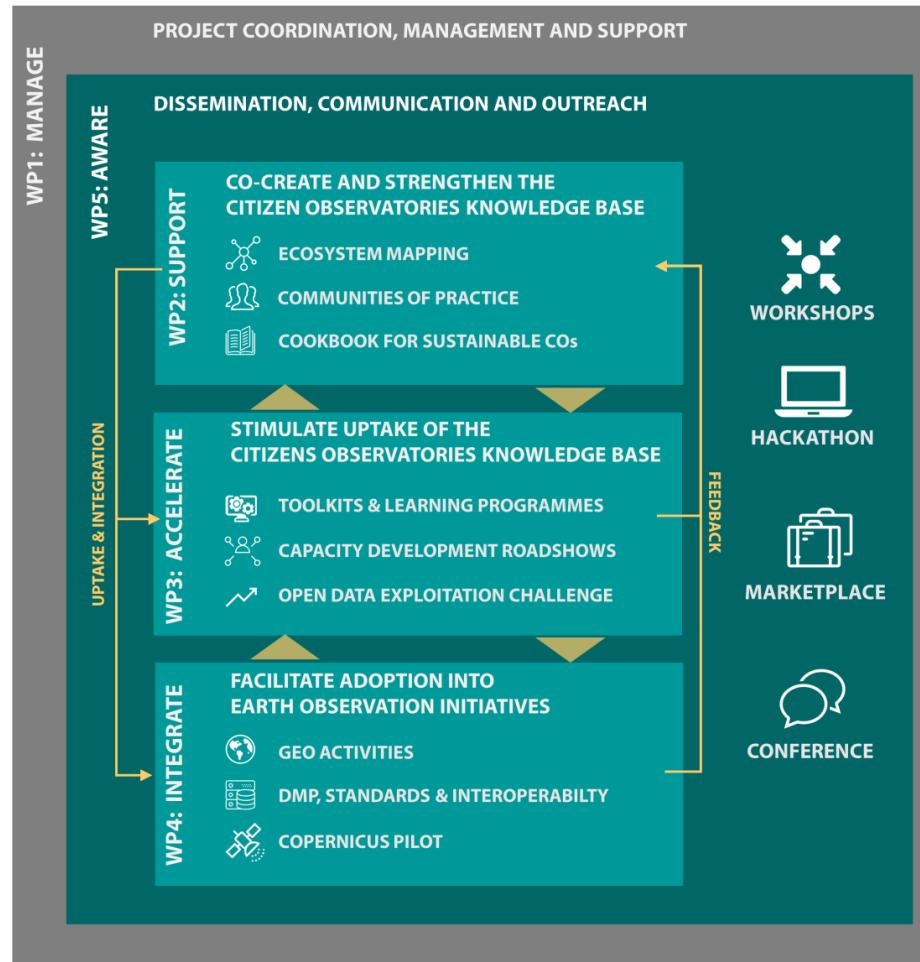




One of the EC funded Citizen Observatories that goes...
... from citizen-based data collection to knowledge sharing for **joint decision-making, cooperative planning and environmental stewardship**



- **Objective 1:** Develop communities of practice around key topics to assess the current CO knowledge base
- **Objective 2:** Extend the geographical coverage of the CO knowledge base
- **Objective 3:** Demonstrate the added value of COs in environmental monitoring (Sustainable Development Goals)
- **Objective 4:** Promote the uptake of information and innovation in the business of *in-situ* earth observation





ERA-PLANET

The European
network
for observing
our changing
planet

ERA-Net in-kind

Strands

Strand 1



Smart Cities
and Resilient Societies

Strand 2



Resource Efficiency
and Environmental
Management

Strand 3



Global change
and Environmental treat-
ties

Strand 4



Polar Areas and Natural
Resources



- Focusing on Essential Variables (e.g. climate, water, energy, food, biodiversity) linked to selected SBAs, the project will improve the sustainability of EO-based indicator systems.
- GEOEssential is addressing
 - Integrate to the extent possible the overarching goals of GEOSS and Copernicus for key environmental priority issues aiming to support the implementation of the European Environmental Policy;
 - Contribute to the definition, with potential end-users of key and society-relevant indicators making use of EO Essential Variables



- SMart URBan Solutions for Air Quality, Disasters and Urban Growth.
- SMURBS will work with selected cities in Europe to integrate and unify existing fragmented Earth observation resources (satellite data, in-situ networks and sensors, unmanned aerial systems, models and citizen observatories) under the "smart city" conceptf
- air quality, disaster resilience and urban growth, with a view to improve quality of life in urban areas.



Delivers the next generation data hub and Earth Observation exploitation for innovation and business.



Engages communities promoting innovative GEOSS powered applications from Europe.



Advocates GEOSS as a sustainable European approach for Earth Observation data distribution and exploitation.



Consell 1: Tenir un perfil

- Cal tenir un perfil clar que et pugui fer necessari en un consorci.
 - En el nostre cas:
 - *Data Quality*
 - *Remote Sensing*
 - *Data visualization*
 - *Standards*
- Però ser flexible
 - En el nostre cas
 - Biodiversitat però també aigua, també agricultura. També infrastructures.

Consell 2: Estar en una xarxa

- És necessari saber treballar en un entorn internacional i plural.
 - En el nostre cas:
 - Open Geospatial Consortium
 - Consorci d'empreses i departaments governamentals per desenvolupar estàndards per a la informació geoespacial
 - Vol temps, vol generositat
 - Telecons, viatges, reunions, informes...
 - Resultats poc visibles a curt termini
 - però... coneixes la “competència” i amb qui pots formar consorci (perquè parlen el teu llenguatge)

Consell 3: Coneixer el context

- Els topics estan relacionats amb interessos de la comissió o de grups afins a la comissió.
- En el cas dels topis de aigua: ICT4Water, EIP
- En el cas de Earth Observation: Grups of Earth Observation (GEO)
 - Estats membres i organitzacions participats treballen per posar les dades d'observació de la terra a disposició dels governs per la presa de decisions informades
- La comissió estan impulsant una iniciativa regional en el context de GEO anomenada EuroGEOSS que va ser presentada a Washington DC el passat 23 d'octubre



SC5-15-2018: Strengthening the benefits for Europe of the Global Earth Observation System of Systems (GEOSS) - establishing 'EuroGEOSS'

Specific Challenge: In order to accelerate users' uptake of open Earth observation (EO) data and information for the benefit of Europe, there is a need to develop a coordinated and comprehensive EO data exploitation initiative within the larger GEOSS landscape. The challenge is to demonstrate the effective use of European EO resources (including space, airborne, in-situ measurements and citizen observations) to prepare for operational environmental forecasting, and for mitigation and adaptation actions through building on Copernicus services and GEOSS initiatives and flagships.

Scope: This action should be an application-oriented initiative, aimed at showcasing and promoting existing European 'GEOSS' actions and scaling them up to deliver services relying on existing strengths in Europe. The focus should be on a coordinated approach to promote collaboration amongst the GEO members and participating organisations within the European region. Based on the core use of a variety of data available within GEOSS, actions should scale up and develop a comprehensive suite of products, services or solutions delivering economic, social and policy value to European citizens, making use of state-of-the-art data integration and fusion techniques. This work should be performed in close collaboration with the European EO programme Copernicus and be in compliance with the INSPIRE Directive, and build on the European GEOSS Data Hub currently developed through the Horizon 2020 project NextGEOSS..

Consell 4: Provar-ho

- Participar en algun consorci
 - Dona experiència en el CV
 - Ensenya molt a:
 - Com s'escriu una proposta
 - Com es dirigeix un grup internacional
 - No intentar liderar si no s'ha estat mai en una proposta.
- En el consorci, no fer el que volem sinó el que és necessari pel projecte i en col·laboració amb altres partners
 - El coordinador ho agrairà molt.
- Liderar una proposta
 - Estar al dia dels esborranys i començar MOLT aviat
 - Determinar i participar en el **context** durant la preparació
 - “Muntar” el projecte des de zero i en resposta directe al topic
 - Una idea simple i clara
 - No “reusar” un projecte antic i fer-lo entrar en calçador.
 - però, introduir els nostres interessos com a tasques (en WP)
 - Cercar lluny i sense por
 - En països forts: Alemanya, França, Itàlia...
 - En països nous a la EU: Romania, Bulgària...
 - Partners més forts que tu.
 - Cercar diversitat
 - Partners complementaris
 - Cercar un equilibri amb SMEs i centres de recerca
 - Basar-se en una proposta anterior per l'estructura i l'estil (no pel contingut)



Gràcies

Joan Masó
Joan.Maso@uab.cat



- **INFO DAY HORIZON 2020 - SC5 . CLIMATE ACTION, ENVIRONMENT, RESOURCE EFFICIENCY & RAW MATERIALS - 2018 CALLS (8-9 November 2017 – BRUSSELS) – web.** <https://h2020-sc5-info-days.b2match.io/>
- **PRIMA - INFO AND NETWORKING EVENT (8 November 2017, BRUSSELS) – web.** https://www.era-learn.eu/events/save-the-date-annual-event-on-public-public-partnerships-7-8-november-2017-brussels/PRIMA_event8thNovember.pdf
- **JORNADA DE PRESENTACIÓN CONVOCATORIAS 2018. Reto Social 5 (14 November 2017 – MADRID. CIEMAT) – web.**
http://www.cdti.es/index.asp?MP=9&MS=37&MN=2&TR=&IDR=0&accion=si&texto=&idprograma=0&fecha=14/11/2017&filtrodia=1&fechadesde=&fechahasta=&tipo=&id=4398&xtmc=&xtrc=1&r=1536*864
- **TALLER DE REVISIÓN DE PROPOSTES SC5 . CLIMATE ACTION, ENVIRONMENT, RESOURCE EFFICIENCY & RAW MATERIALS - 2018 CALLS (18 January 2018 – BARCELONA)**





Entitats catalanes participants



Demonstration of a Decision Support System for a Novel Integrated Solution aimed at Water Reuse in the Oil & Gas Industry

From 2016-06-01 to 2019-05-31, ongoing project

Project details

Total cost: EUR 5 794 442,50	Topic(s): WATER-1b-2015 - Demonstration/pilot activities
EU contribution: EUR 4 273 536,26	Call for proposal: H2020-WATER-2015-two-stage See other projects for this call
Coordinated in: Spain	Funding scheme: IA - Innovation action



Entitats catalanes participants

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



Ajuntament
de Manresa



Ajuntament
de Sabadell



CTM
CENTRE TECNOLÒGIC



CONSORCI DEL BAGES
PER A LA GESTIÓ DE RESIDUS

Urban metabolism accounts for building Waste management Innovative Networks and Strategies

From 2016-06-01 to 2019-05-31, ongoing project

Project details

Total cost:

EUR 4 966 516,25

EU contribution:

EUR 4 966 516,25

Coordinated in:

Italy

Topic(s):

[WASTE-6b-2015 - Eco-innovative strategies](#)

Call for proposal:

H2020-WASTE-2015-two-stage

[See other projects for this call](#)

Funding scheme:

RIA - Research and Innovation action

A broad range of services for growth-oriented SMEs



INTERNATIONAL PARTNERSHIPS

Partnership database

Brokerage events

Company missions

ADVISORY SUPPORT

Advice on EU laws and standards

Market intelligence

IPR expertise

INNOVATION SUPPORT

Access to finance and funding

Innovation Management Services

Technology transfer

www.een.cat