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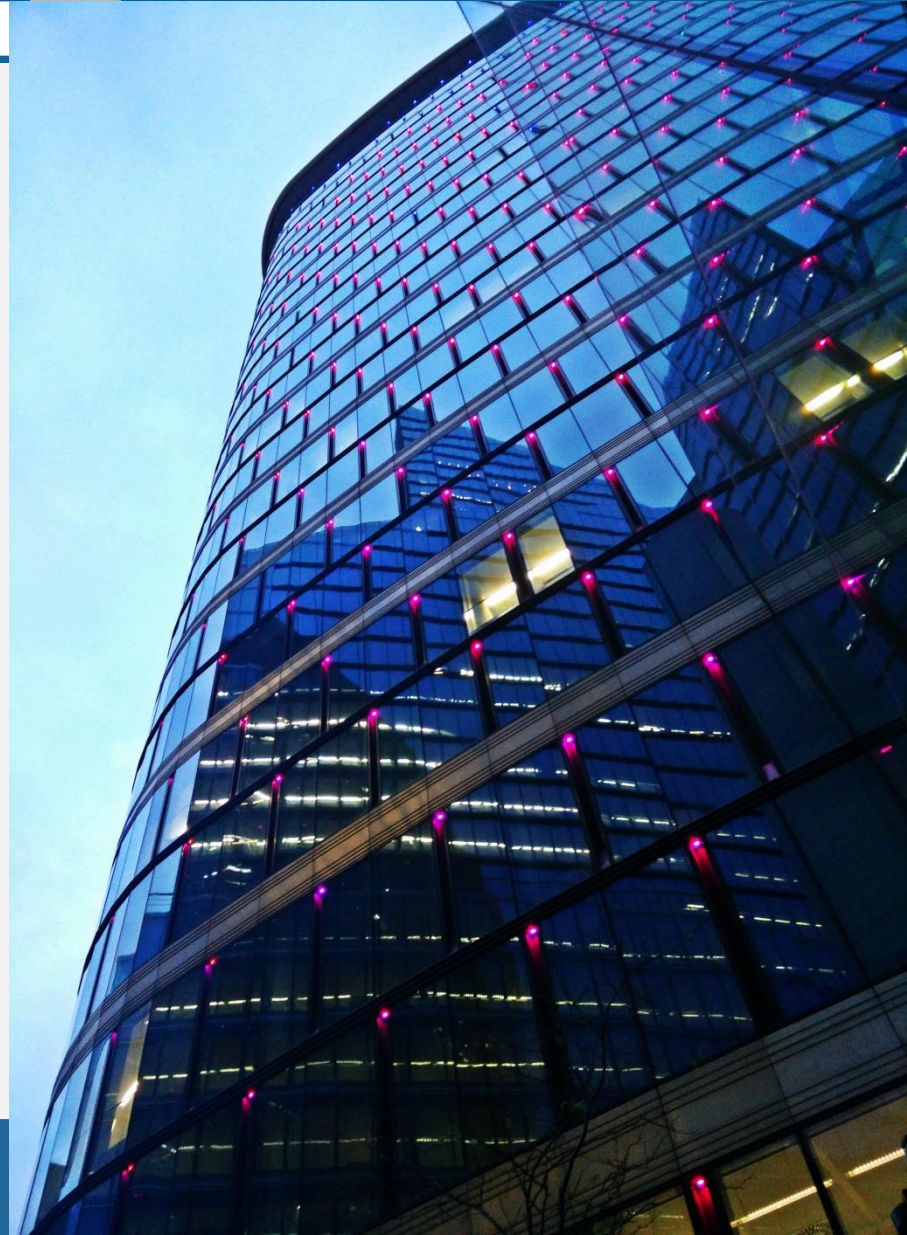
Executive Agency for Small and Medium-sized Enterprises

Horizon 2020 projects supporting innovation in the area of buildings

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19 February 2018, Brussels

Executive
Agency for
SMEs



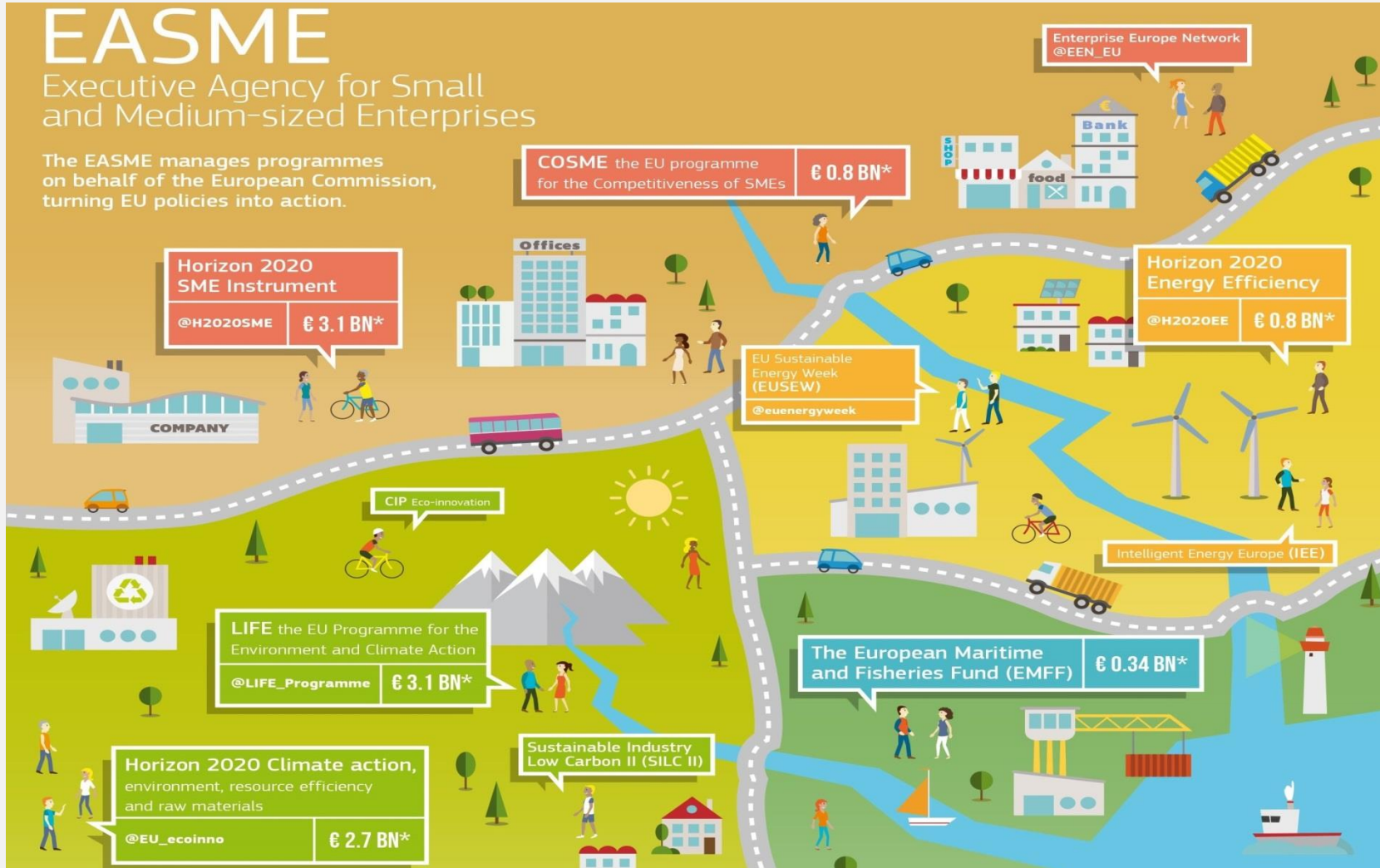


European Commission

EASME

Executive Agency for Small and Medium-sized Enterprises

The EASME manages programmes on behalf of the European Commission, turning EU policies into action.



Executive Agency for SMEs



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Work Programme 2018-2020

R&I investment of € 30 billion for 3 years

- ✓ Addressing **main concerns of citizens** such as security, migration and economic situation...
- ✓ **Focus on impact**
- ✓ Piloting new initiatives and **flexibility for 2020**, with 'minimum' content of calls and other actions at this stage



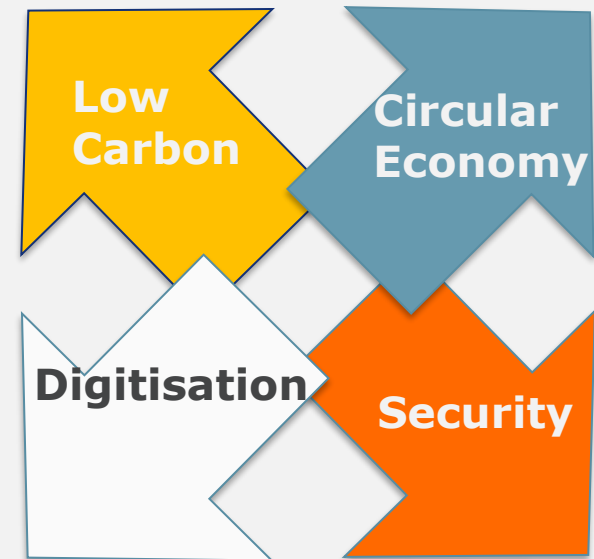
Focus Areas and other cross-cutting priorities

€ 7 billion for 4 mutually reinforcing focus areas

- ✓ aligned to political priorities
- ✓ implemented through 'virtual calls cutting across the programme

Further cross-cutting priorities

- ✓ Migration, Batteries, Blue Growth, Cities ...



Focus Area 'Building a low-carbon, climate resilient future'

Operationalise the Paris Agreement goals
(including input to the IPCC's 6th Assessment Report)

Accelerate transformation towards carbon neutrality through **clean technologies**

Objectives

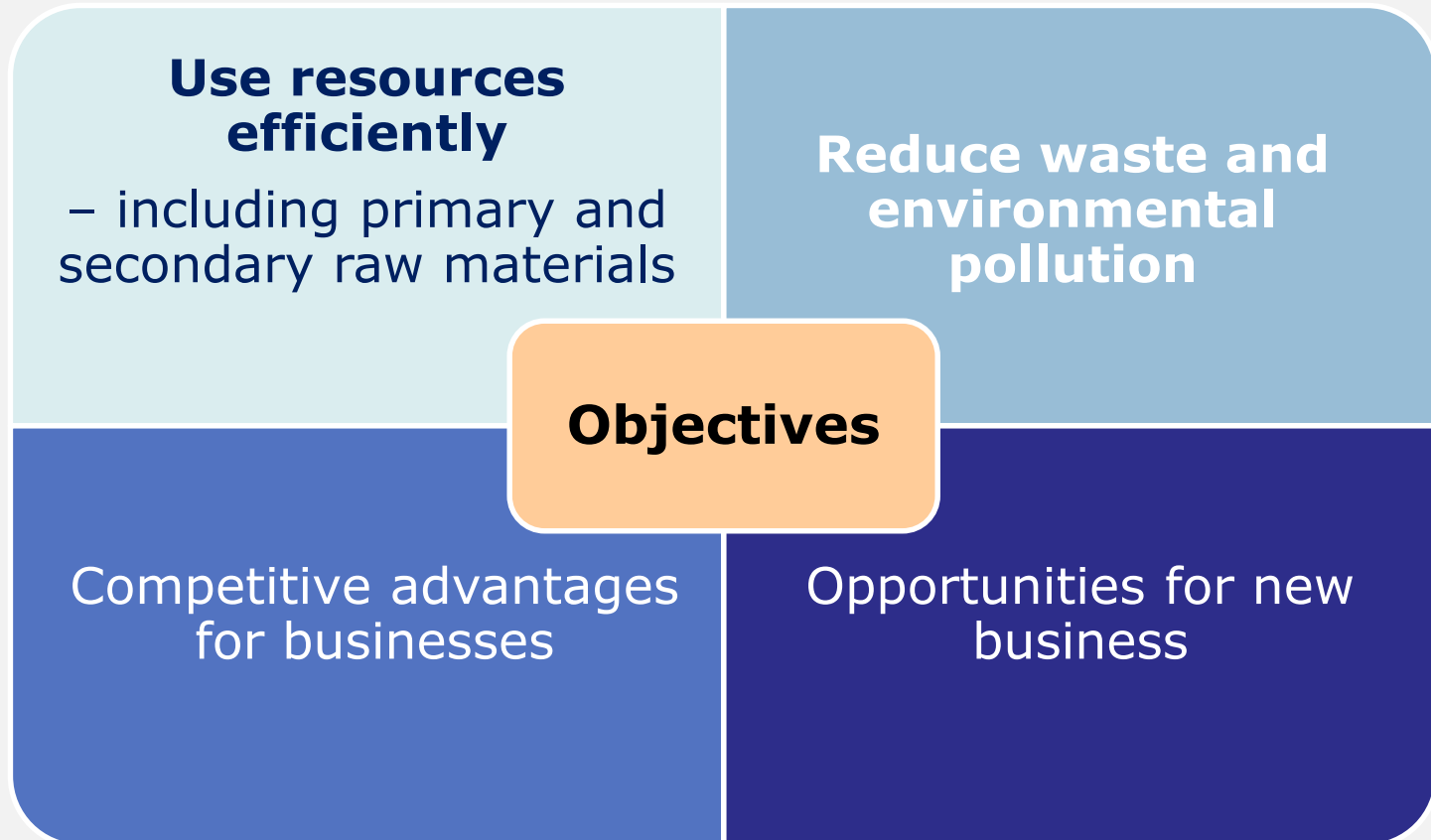
Enhance **climate resilience** in Europe and beyond

Contribute to **long-term mitigation and adaptation policy planning**



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Focus Area 'Connecting economic and environmental gains – the Circular Economy'



WP 2018-2020 Calls

Climate action, environment, resource efficiency and raw materials (SC5)

Greening the economy in line with SDGs

- **CE-SC5-01-2018:** Methods to remove hazardous substances and contaminants from secondary raw materials – **RIA - € 34 M**
- **CE-SC5-06-2018:** New technologies for the enhanced recovery of by-products – **RIA - € 15 M**
- **CE-SC5-07-2018:** Raw materials innovation for the circular economy - **IA - € 20 M**
- **CE-SC5-08-2018** Raw materials policy support actions for the circular economy – **CSA - € 8 M**



Planning:

November 2017	27 February 2018	4 September 2018
Opening of the call	Stage 1 Evaluation	Stage 2 Evaluation

WP 2018-2020 Calls

Secure, clean and efficient energy (SC3)

Energy Efficiency

- **LC-SC3-EE-1-2018:** Decarbonisation of the EU building stock: innovative approaches and affordable solutions changing the market for buildings renovation - **RIA - € 9 M - Deadline: 4 Sep 2018**
- **LC-SC3-EE-2-2018:** Integrated home renovation services – **CSA - € 7 M - Deadline: 4 Sep 2018**

Global leadership in renewable

- **LC-SC3-RES-4-2018:** Renewable energy system integrated at the building scale - **RIA - € 27.5 M - Deadline: ~~31 Gen 2018~~ (First Stage)**
- **LC-SC3-RES-5-2018:** Increased performance of technologies for local heating and cooling solutions - **IA - € 10 M - Deadline: ~~13 Feb 2018~~**



Participant Portal

- Powerful search engine supported by flags and metadata
- Work Programmes: calls and topics and all the information need to make an application for funding
- National Contact Points – **ITALY: APRE (Roma, Via Cavour, 71)**

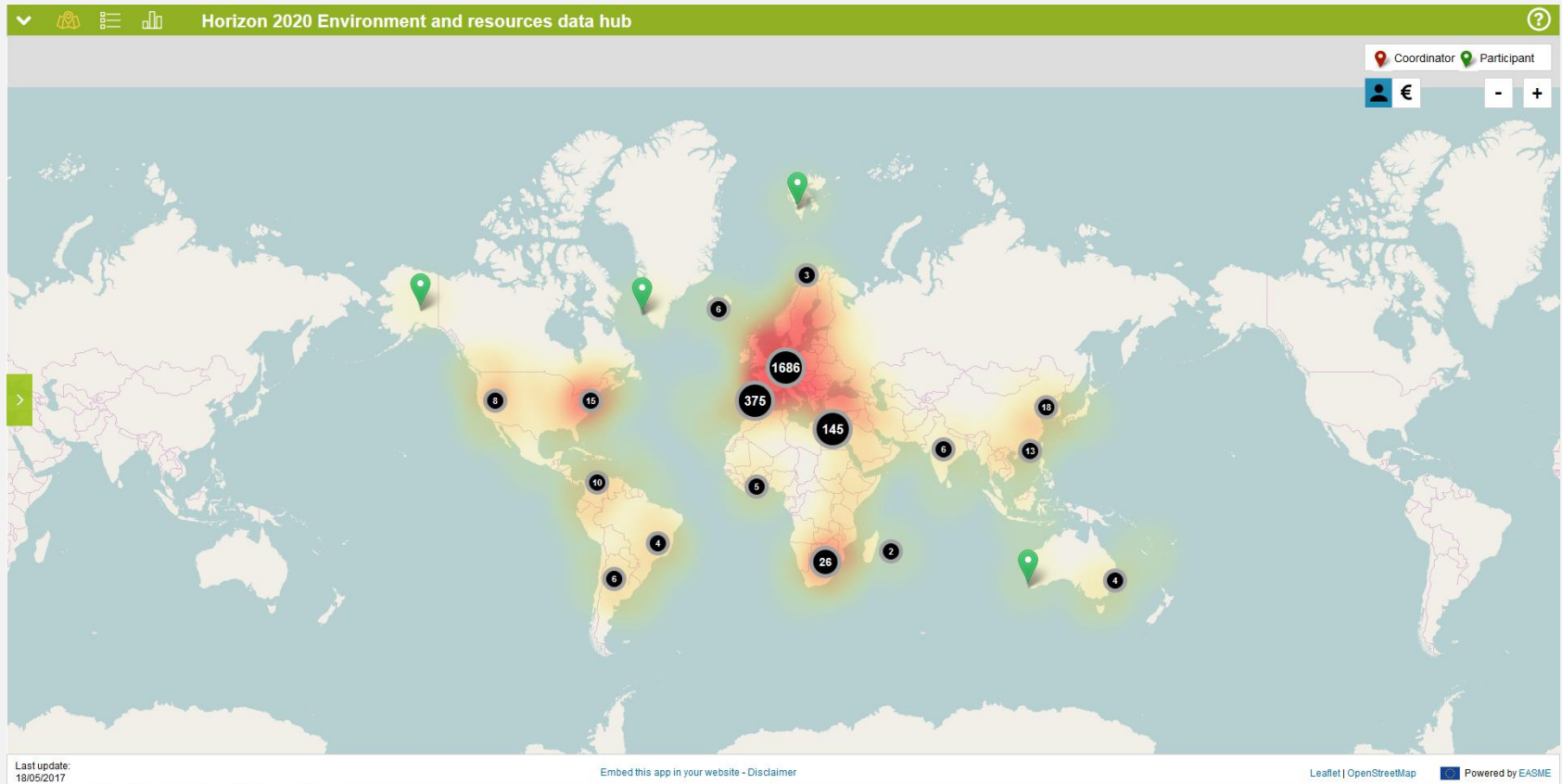


<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>



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Horizon 2020 environment data hub



<https://sc5.easme-web.eu/?theme=green>

Horizon 2020 Work Programmes 2014/15 and 2016/17

- ✓ WASTE-1-2014: **Moving towards a circular economy through industrial symbiosis**
 - **BAMB, FISSAC (IA)**
- ✓ WASTE-3-2014: **Recycling of raw materials from products and building**
 - **HISER (RIA)**
- ✓ CIRC-01-2016: **Design for circular value and supply chains**
 - **ECOBULK, PAPERCHAIN (IA)**



Coordinator: Institut Bruxellois pour la Gestion de l'Environnement (BE)

Beneficiaries: 15 (BE, NL, DE, UK, SE, PT, BA)

EU contribution: € 8,858,766

Duration: 48 months (Started: September 2015)

- Design and circular value chains to prevent C&D waste and reduce virgin material consumption

- ✓ **Material passports**
- ✓ **Reversible building design**
- ✓ **New business models**

- transform buildings to deliver new functions
- disassemble building components or material feedstock
- 6 pilots





Coordinator: Acciona (ES)

Beneficiaries: 26 (ES, TK, BE, DE, UK, SE, IT, CZ, HU)

EU contribution: € 9,108,594.25

Duration: 54 months (Started: September 2015)

Instrument: Innovation Action

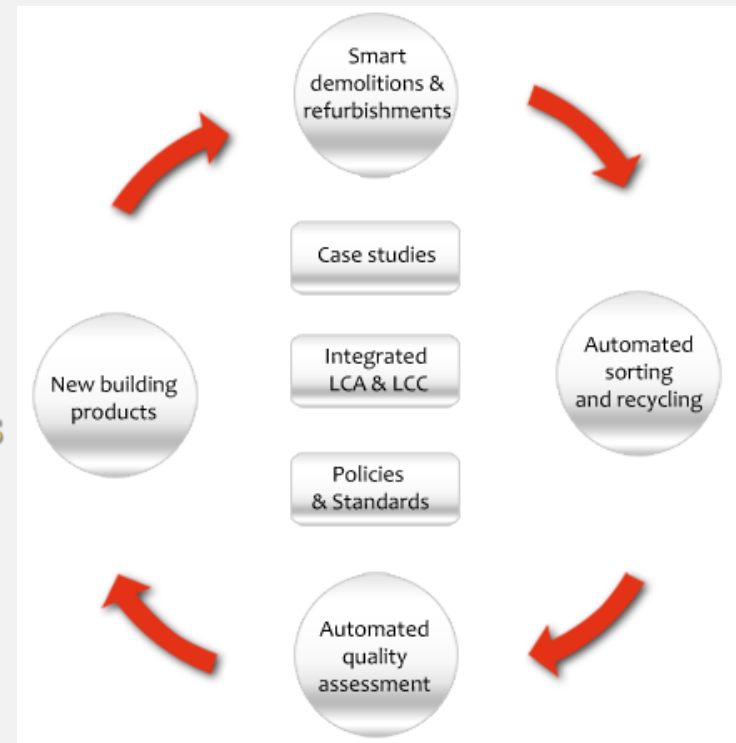
- Methodology and software platform to support industrial symbiosis between resource intensive industries and the extended C&D value chain
 - **5 DEMOS:** Concrete Road Pavement, Building Wall Blocks, Concrete Building Façade, Decorative Building Façade, Rubber Fusion Wood Plastic Composite For Decking, Fencing And Cladding
 - **LIVING LABS:** Replicability of the Industrial Symbiosis model and social engagement and networking





Coordinator: Fundacion Tecnalia Research & Innovation (ES)
Beneficiaries: 25 (ES, FR, PL, FI, IT, BE, NL, DE, FR)
EU contribution: € 7,511,870
Duration: 48 months (Started: February 2015)
Instrument: Research and Innovation Action

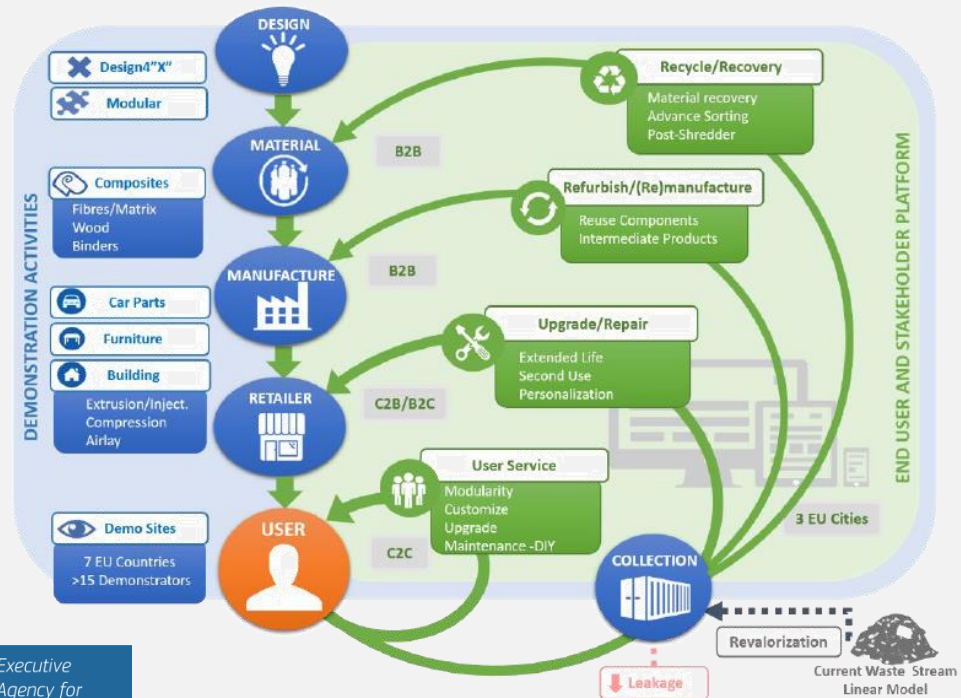
- Develop and demonstrate technological and non-technological solutions for a higher recovery of raw materials from C&D Waste
- Consider circular economy approaches throughout the building value chain
 - **Enhanced segregation of materials at works:** BIM, Tracking System
 - **Integral recycling approaches:** Recycling technologies, Inline quality assessment, Recycled construction products



ECOBULK

Coordinator: EXERGY (UK)
Beneficiaries: 24 (DE, ES, FI, FR, IT, NL, SE, TR, UK)
Total Cost: € 12 230 393.75
EU contribution: € 9 666 300.38
Duration: 48 months (Started: June 2017)
Instrument: Innovation Action

*Implementing a new circular economy model for **composite products in automotive, furniture and building component** industrial sectors by directly addressing and demonstrating key stages along the entire circular chain, from design to waste stream management.*

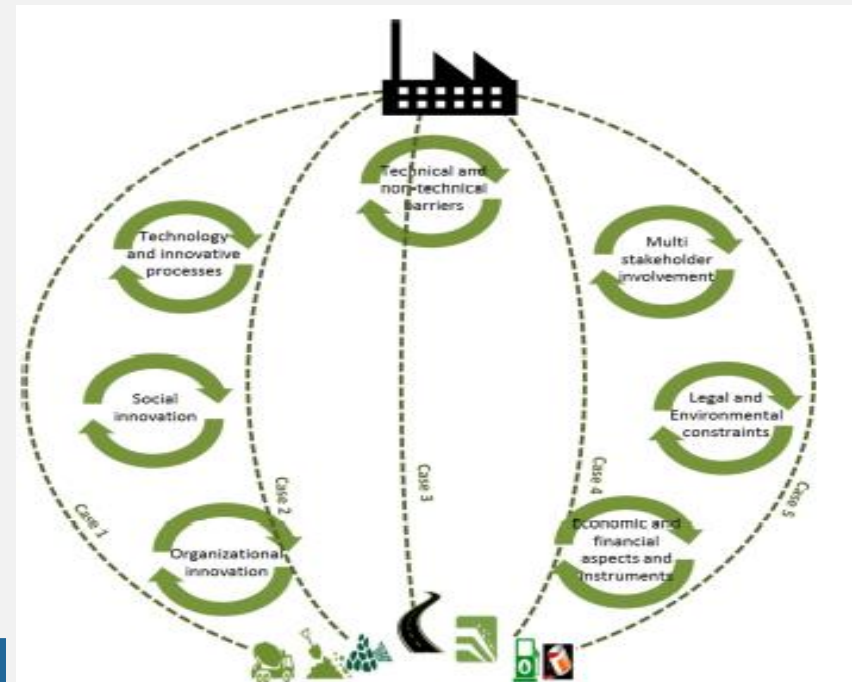




Coordinator: ACCIONA INFRAESTRUCTURAS SA (ES)
Beneficiaries: 20 (BE, ES, FR, PT, SE, SI)
Total Cost: € 9 270 322,50
EU contribution: € 7 826 080,89
Duration: 48 months (Started: June 2017)
Instrument: Innovation Action

*Deployment of five novel circular economy models for valorisation of **Pulp and Paper Industry waste streams**.*

Secondary raw material for resource intensive sectors: construction, sector, mining sector and chemical industry.





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R&I Catalogue SC5

European Commission > Research and Innovation > Research by area >

Environment research and innovation

Information on policies, strategy, funding and events related to research and innovation on the environment

[Home](#) [Policy topics](#) [Initiatives](#) [Output](#) [Get involved](#)

<http://ec.europa.eu/research/environment/index.cfm>

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Research & Innovation Projects
CALLS 2014, 2015, 2016 and first part of 2017

Climate action, environment, resource efficiency and raw
materials

HORIZON 2020

Directorate-General for Research and Innovation
Directorate 1 – Climate action and resource efficiency
Unit 1.1 – Strategy

Contact: Avelino Gonzalez Gonzalez



Date: 1/09/2017

Become an independent expert



**25% new
experts**



**Read excellent
proposals**



**Network with
fellows**

- ✓ Academia
- ✓ Private sector / innovation agencies
- ✓ Local / national authorities / agencies

Call for experts (SC5)

<http://ec.europa.eu/easme/en/call-experts-climate-action-environment-resources-management>

Participant Portal

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



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**THANK YOU
FOR YOUR ATTENTION**

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EASME on Twitter



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