

FISSAC Webinar – Industrial Symbiosis Tools and Best Practices

23 February 2017



FOSTERING INDUSTRIAL SYMBIOSIS FOR A
SUSTAINABLE RESOURCE INTENSIVE INDUSTRY ACROSS
THE EXTENDED CONSTRUCTION VALUE CHAIN

The FISSAC project

FISSAC Webinar – Industrial Symbiosis Tools and Best Practices

23 February 2017

ACCIONA FISSAC Coordination team

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FOSTERING INDUSTRIAL SYMBIOSIS FOR A SUSTAINABLE
RESOURCE-INTENSIVE INDUSTRY ACROSS THE EXTENDED
CONSTRUCTION VALUE CHAIN

HORIZON 2020



WASTE-1-2014: **Moving towards a circular economy through industrial symbiosis**

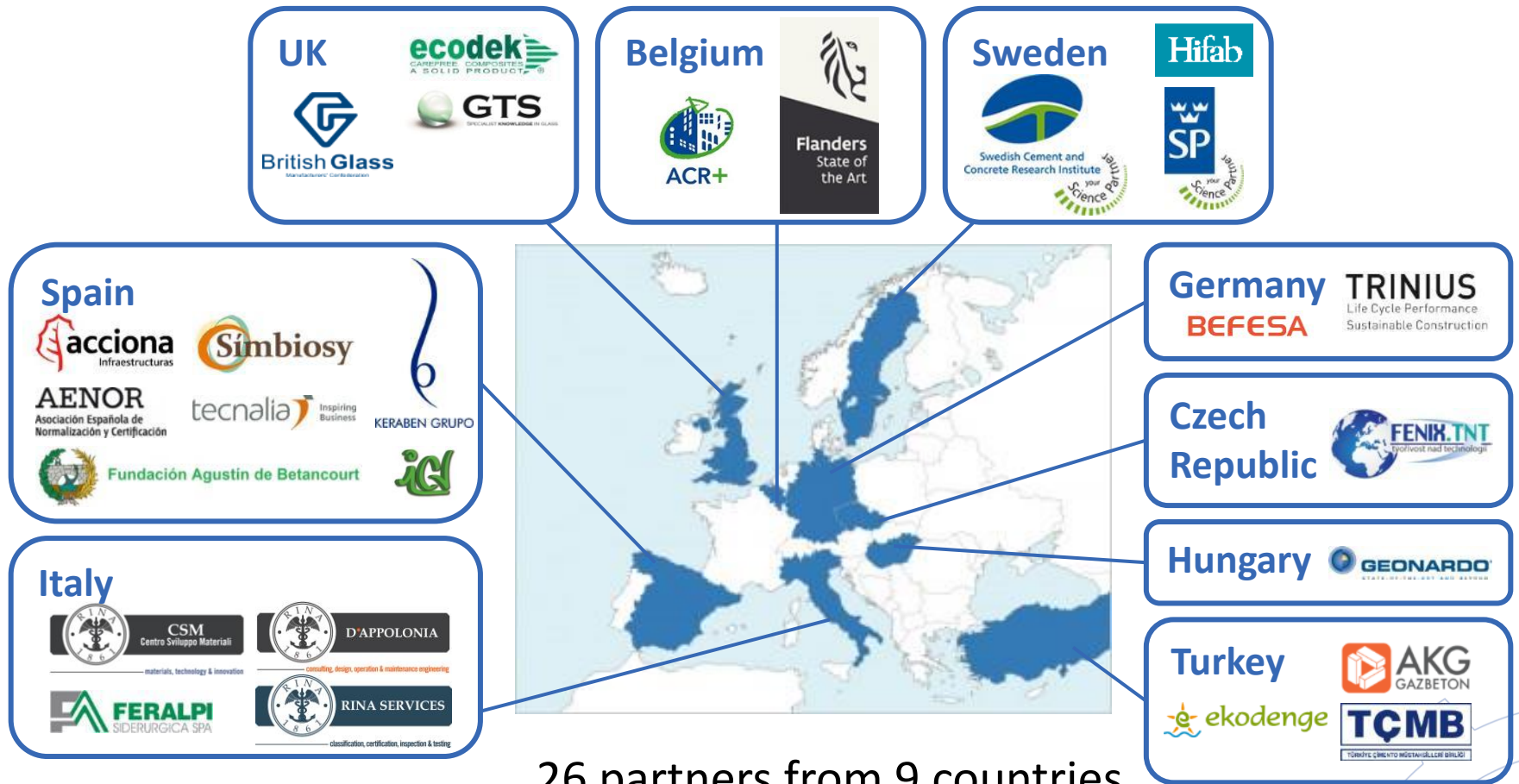
- Type of action: Innovation action
- 54 months, 01/09/2015 – 29/02/2020
- Project Coordinator: Acciona Infraestructuras



The concept

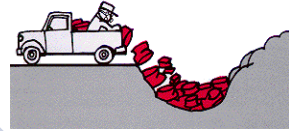


Partners



26 partners from 9 countries
(8 EU Member States + Turkey)

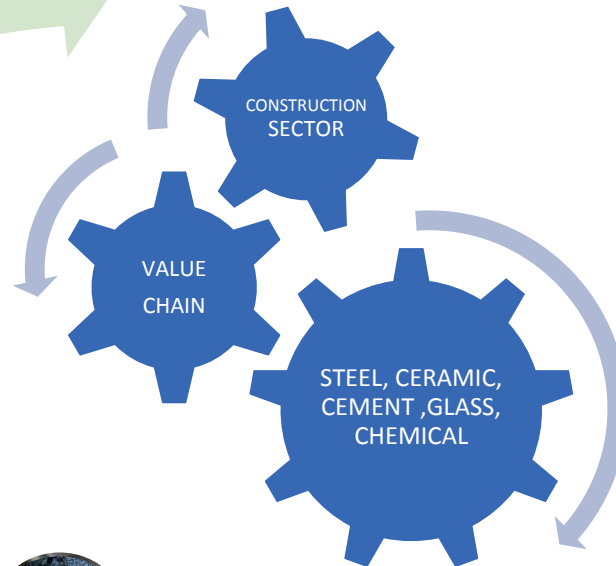
Overview



INDUSTRIAL SYMBIOSIS MODEL

PRODUCT VALIDATION

MANUFACTURING PROCESSES



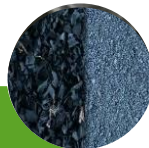
INDUSTRIAL PRODUCTION & REAL SCALE DEMONSTRION



INNOVATIVE CONSTRUCTION PRODUCTS



PROCESSES TO TRANSFORM WASTE INTO SECONDARY RAW MATERIALS



Current and expected impacts

- 15% reduction of waste generation
- 12% gains in productivity for waste treatment
- 20% in energy efficiency and GHG savings
- SPIRE KPIs related to IS introduced to quantify FISSAC model impact

Environmental

- 15% reduction of waste generation [170,298 kt/y]
- 12% gains in productivity for waste treatment [30.36 Mt/y]
- Volume of resources & products from waste: Total savings for the EU-concrete sector up to 25 M€
- 1,200 M€ – 1,350 M€ associated with consumption of Portland cement

Economic

- Employment: new job opportunities, training needs on circular economy
- Social behaviour & citizen engagement (Social Advisory Board, Living Labs to gather views, share knowledge develop prototypes, encourage sustainable behaviour..)

Social

- New eco-cement
- New green concrete
- Innovative ceramic tiles
- Rubber wood plastic composite

Technological



Thank you!
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