

HORIZON
2020

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

Fact Sheet

Project Information



FISSAC

Grant agreement ID: 642154

[Project website](#) 

DOI

[10.3030/642154](https://doi.org/10.3030/642154) 

Project closed

EC signature date

21 May 2015

Start date

1 September 2015

End date

29 February 2020

Funded under

SOCIETAL CHALLENGES - Climate action,
Environment, Resource Efficiency and Raw
Materials

Total cost

€ 11 214 564,94

EU contribution

€ 8 892 406,34

Coordinated by

ACCIONA CONSTRUCCION SA



Spain

This project is featured in...



Circular economy innovations for industrial and urban waste management

Objective

The overall objective of FISSAC project is to develop and demonstrate a new paradigm built on an innovative industrial symbiosis model towards a zero waste approach in the resource intensive industries of the construction value chain, tackling harmonized technological and non technological requirements, leading to material closed-loop processes and moving to a circular economy.

A methodology and a software platform will be developed in order to implement the innovative industrial symbiosis model in a feasible scenario of industrial symbiosis synergies between industries (steel, aluminium, natural stone, chemical and demolition and construction sectors) and stakeholders in the extended construction value chain. It will guide how to overcome technical barriers and non technical barriers, as well as standardisation concerns to implement and replicate industrial symbiosis in a local/regional dimension. The ambition of the model will be to be replicated in other regions and other value chains symbiosis scenarios. The model will be applied based on the three sustainability pillars.

FISSAC will demonstrate the applicability of the model as well as the effectiveness of the innovative processes, services and products at different levels:

- Manufacturing processes: with demonstration of closed loop recycling processes to transform waste into valuable secondary raw materials, and manufacturing processes of the novel products at industrial scale
- Product validation: with demonstration of the eco-design of eco-innovative construction products (new Eco-Cement and Green Concrete, innovative ceramic tiles and Rubber Wood Plastic Composites) in pre-industrial processes under a life cycle approach, and demonstration at real scale in different case studies of the application and the technical performance of the products
- FISSAC model, with the demonstration of the software platform and replicability assessment of the model through living lab concept

[engineering and technology](#) > [mechanical engineering](#) > **[manufacturing engineering](#)**

[engineering and technology](#) > [environmental engineering](#) > **[waste management](#)**

[engineering and technology](#) > [materials engineering](#) > **[composites](#)**

[natural sciences](#) > [biological sciences](#) > [biological behavioural sciences](#) > [ethology](#) > **[biological interactions](#)**

[engineering and technology](#) > [materials engineering](#) > **[ceramics](#)**



Programme(s)

[H2020-EU.3.5. - SOCIETAL CHALLENGES - Climate action, Environment, Resource Efficiency and Raw Materials](#)

MAIN PROGRAMME

[H2020-EU.3.5.4. - Enabling the transition towards a green economy and society through eco-innovation](#)

Topic(s)

[WASTE-1-2014 - Moving towards a circular economy through industrial symbiosis](#)

Call for proposal

[H2020-WASTE-2014-2015](#)

[See other projects for this call](#)

Sub call

H2020-WASTE-2014-two-stage

Funding Scheme

[IA - Innovation action](#)

Coordinator



ACCIONA CONSTRUCCION SA

Net EU contribution

€ 1 207 370,15

Total cost

€ 1 724 814,50

Address

CALLE MESENA 80

28033 MADRID

 **Spain** 

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Participants (27)



ASSOCIATION OF CITIES AND REGIONS FOR SUSTAINABLE RESOURCE MANAGEMENT

 **Belgium**

Net EU contribution

€ 551 352,50

Address

AVENUE DES ARTS 3-4-5

1210 BRUXELLES 

Region

Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest > Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad

Activity type

Other

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

Total cost

€ 551 352,50



ASOCIACION ESPANOLA DE NORMALIZACION

 Spain

Net EU contribution

€ 75 000,00

Address

CALLE GENOVA 6

28004 Madrid 

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

Other

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 75 000,00



AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS

 Spain

Net EU contribution

€ 113 505,00

Address

CALLE SERRANO 117

28006 Madrid 

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 113 505,00



AKG GAZBETON ISLETMELERI SANAYI VETICARETCARET AS 

 Türkiye

Net EU contribution

€ 186 382,09

Address

KONAK MAHAKLLESİ NO:19-208, MILLİ KUTUPHANE CAD TI MERKEZİ APT NO 19/208

KONAK

35260 NIKFER 

Region

Ege > İzmir > İzmir

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 266 260,13



BEFESA SALZCHALACKE GMBH

 Germany

Net EU contribution

€ 287 437,50

Address

AM BRINKER HAFEN 6

30179 HANNOVER 

Region

Niedersachsen > Hannover > Region Hannover

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 500 625,00

 **THIRD-PARTY** 

BEFESA ALUMINIO SLU

 Spain

Net EU contribution

€ 63 000,00

Address

CR LUTXANA ASUA 13
48950 Erandio Bizkaia 

Region

Noreste > País Vasco > Bizkaia

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 90 000,00



BRITISH GLASS MANUFACTURERS CONFEDERATION

 United Kingdom

Net EU contribution

€ 196 762,50

Address

9 CHURCHILL WAY
S35 2PY CHAPELTOWN 

Region
Yorkshire and the Humber > South Yorkshire > Sheffield

Activity type
Research Organisations

Links
[Contact the organisation](#)
[Participation in EU R&I programmes](#)
[HORIZON collaboration network](#)

Total cost
€ 196 762,50



RISE CBI BETONGINSTITUTET AB ⓘ

 Sweden

Net EU contribution
€ 123 570,27

Address
**DROTTNING KRISTINAS VAG 26
10044 STOCKHOLM** ⓘ

Region
Östra Sverige > Stockholm > Stockholms län

Activity type
Research Organisations

Links
[Contact the organisation](#) [Website](#)
[Participation in EU R&I programmes](#)
[HORIZON collaboration network](#)

Total cost
€ 123 570,27



RINA CONSULTING - CENTRO SVILUPPO MATERIALI SPA

 Italy

Net EU contribution
€ 250 687,50

Address

VIA DI CASTEL ROMANO 100
00128 Roma 

Region
Centro (IT) > Lazio > Roma

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost
€ 358 125,00



RINA CONSULTING SPA

 Italy
Net EU contribution
€ 469 000,00

Address
VIA CECCHI 6
16129 Genova 
Region
Nord-Ovest > Liguria > Genova

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost
€ 670 000,00



EKODENGE MUHENDISLIK MIMARLIK DANISMANLIK TICARET ANONIM SIRKETI

 Türkiye

Net EU contribution

€ 378 700,00

Address

**HACETTEPE UNIVERSITESI TEKNOKENTI 1NOLU AR GE BINASI ODA 18 BEYTEPE
06800 Cankaya Ankara** 

SME 

Yes

Region

Batı Anadolu > Ankara > Ankara

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 541 000,00



FUNDACION AGUSTIN DE BETANCOURT

 Spain

Net EU contribution

€ 258 750,00

Address

**E.T.S. de Ingenieros de Caminos, Canales y Puertos Ciudad Universitaria
28040 MADRID** 

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

Other

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 258 750,00



FENIX TNT SRO

Czechia

Net EU contribution

€ 163 625,00

Address

DUSIKOVA 906/33

638 00 Brno

SME

Yes

Region

Česko > Jihovýchod > Jihomoravský kraj

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost

€ 233 750,00



FERALPI SIDERURGICA SPA

Italy

Net EU contribution

€ 384 078,63

Address

VIA AURELIO SAFFI 15

25100 Brescia

Region

Nord-Ovest > Lombardia > Brescia

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#)

[Participation in EU R&I programmes](#)

Total cost

€ 548 683,75



GEONARDO KORNYEZETVEDELMI TERINFORMATIKAI ES REGIONALIS PROJEKTFEJLESZTO KORLATOLT FELELOSSEGU TARSASAG

 Hungary

Net EU contribution

€ 178 609,38

Address

ZAHONY U 7

1031 Budapest 

SME 

Yes

Region

Közép-Magyarország > Budapest > Budapest

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 255 156,25



GLASS TECHNOLOGY SERVICES LIMITED

 United Kingdom

Net EU contribution

€ 112 647,50

Address

CHURCHILL WAY 9

S35 2PY SHEFFIELD 

SME 

Yes

Region

Yorkshire and the Humber > South Yorkshire > Sheffield

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

€ 160 925,00



INGENIEURBUERO TRINIUS GMBH

Germany

Net EU contribution

€ 139 371,09

Address

BARMBEKER STRASSE 9A
22303 HAMBURG

SME

Yes

Region

Hamburg > Hamburg > Hamburg

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

€ 199 101,56



HIFAB AB

Sweden

Net EU contribution

€ 216 142,50

Address

SVEAVAGEN 167 3TR

113 46 STOCKHOLM 

Region

Östra Sverige > Stockholm > Stockholms län

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 308 775,00



KERABEN GRUPO SA

 Spain

Net EU contribution

€ 454 606,25

Address

CTRA VALENCIA BARCELONA KM44.3

12520 Nules 

Region

Este > Comunitat Valenciana > Castellón/Castelló

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 649 437,50



OPENBARE VLAAMSE AFVALSTOFFENMAATSCHAPPIJ

 Belgium

Net EU contribution

€ 212 322,50

Address

STATIONSSTRAAT 110

2800 Mechelen 

Region

Vlaams Gewest > Prov. Antwerpen > Arr. Mechelen

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 212 322,50



RINA SERVICES SPA

 Italy

Net EU contribution

€ 143 937,50

Address

VIA CORSICA 12

16128 Genova 

Region

Nord-Ovest > Liguria > Genova

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 205 625,00



RISE RESEARCH INSTITUTES OF SWEDEN AB

 Sweden

Net EU contribution

€ 766 273,48

Address

BRINELLGATAN 4

501 15 Borås 

Region

Södra Sverige > Västsverige > Västra Götalands län

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 766 273,48



SIMBIOSY SIMBIOSI INDUSTRIAL SL

 Spain

Net EU contribution

€ 126 507,50

Address

COMTE BORRELL 167 4 4

08015 Barcelona 

SME 

Yes

Region

Este > Cataluña > Barcelona

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

Total cost

€ 180 725,00



TURKIYE CIMENTO SANAYICILERI BIRLIGI DERNEGI

 Türkiye

Net EU contribution

€ 542 500,00

Address

M KEMAL MAH D PINAR BLV A BLOK 266 104
06800 Cankaya Ankara 

Region

Batı Anadolu > Ankara > Ankara

Activity type

Other

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 542 500,00



FUNDACION TECNALIA RESEARCH & INNOVATION

 Spain

Net EU contribution

€ 634 000,00

Address

PARQUE CIENTIFICO Y TECNOLOGICO DE BIZKAIA, ASTONDO BIDEA, EDIFICIO 700
48160 DERIO BIZKAIA 

Region

Noreste > País Vasco > Gipuzkoa

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 634 000,00



VANNPLASTIC LTD 

 United Kingdom

Net EU contribution

€ 8 211,79

Address

ABENBURY WAY UNIT 13 WREXHAM 3
LL13 9UZ Wrexham 

SME 

Yes

Region

Wales > East Wales > Flintshire and Wrexham

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 11 731,13



SPECIALIST BUILDING PRODUCTS LIMITED

 United Kingdom

Net EU contribution

€ 648 055,71

Address

UNIT 1B STRATFORD COURT CRANMORE BOULEVARD
B90 4QT Solihull 

Region

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 925 793,87

Last update: 6 September 2024

Permalink: <https://cordis.europa.eu/project/id/642154>

European Union, 2025

