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Innovative Strategies for High-Grade Material Recovery from Construction and Demolition Waste

Fact Sheet

Project Information

IRCOW

Grant agreement ID: 265212

[Project website](#) 

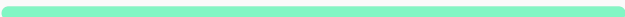
Project closed

Start date

17 January 2011

End date

16 January 2014



Funded under

Specific Programme "Cooperation": Environment
(including Climate Change)

Total cost

€ 4 831 043,01

EU contribution

€ 3 362 408,00

Coordinated by

FUNDACION TECNALIA
RESEARCH & INNOVATION
 Spain

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Preparing for the advent of smart cities

Objective

The main goal of the IRCOW project is to develop and validate upgraded technological solutions to achieve an efficient material recovery from C&D waste by considering a life cycle perspective.

The innovation beyond the state-of-the-art will focus on:

1. Developing new approaches and models aimed at raising the rate of reuse components.
2. Developing and adapting recycling technology with the overall purpose of improving the quality of C&D recycled materials: recycled aggregates, wood, plastics, granular gypsum from mixed streams and emerging waste materials.
3. Developing high grade construction products by using C&D recycled materials; not only those related to the stony fraction, but also the other fractions where there is currently a strong knowledge gap.
4. Demonstrating results under real conditions with the aim of providing potential stakeholders with information on the global performance.
5. Setting the basis for specific European policies on C&D waste aiming at fostering a high and efficient level of material recovery.

To accomplish IRCOW objectives, the project is structured into 7 work packages and 5 in-field case studies. Three of the work packages focus on the development of new management schemes, separation technologies and products that are needed to significantly increase the reuse and recycling rates of C&W waste in the EU. The outcomes of the three technological work packages will be assessed and validated from an economic, environmental and toxicological point of view, by using both Life Cycle Assessment tools and case studies throughout Europe.

The involvement of industrial stakeholders (both industrial companies and associations from the construction and recycling sector), and national and regional authorities ensures the relevance and applicability of the project results. Moreover,

the stakeholders will be involved in deriving recommendations for changes in policies aiming to remove obsta

Fields of science (EuroSciVoc)

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

[engineering and technology](#) > [chemical engineering](#) > **[separation technologies](#)**

[agricultural sciences](#) > [agriculture, forestry, and fisheries](#) > **[forestry](#)**



Programme(s)

[FP7-ENVIRONMENT - Specific Programme "Cooperation": Environment \(including Climate Change\)](#)

Topic(s)

[ENV.2010.3.1.3-1 - Innovative technologies and eco design recommendations for reuse and recycling of Construction and Demolition \(C&D\) waste, with a special focus on technologies for onsite solutions](#)

Call for proposal

FP7-ENV-2010

[See other projects for this call](#)

Funding Scheme

[CP-FP - Small or medium-scale focused research project](#)

Coordinator



FUNDACION TECNALIA RESEARCH & INNOVATION

EU contribution

€ 649 484,00

Total cost

No data

Address

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

 Spain 

Region

Noreste > País Vasco > Gipuzkoa

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Participants (12)



VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.

 Belgium

EU contribution

€ 428 340,50

Address

BOERETANG 200
2400 Mol 

Region

Vlaams Gewest > Prov. Antwerpen > Arr. Turnhout

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



IVL SVENSKA MILJÖINSTITUTET AB

 Sweden

EU contribution

€ 564 790,50

Address

PO BOX 21060

100 31 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

No data



INSTYTUT EKOLOGII TERENOW UPRZEMYSLOWIONYCH

 Poland

EU contribution

€ 151 677,60

Address

ULICA KOSSUTHA 6

40 844 Katowice 

Region

Makroregion południowy > Śląskie > Katowicki

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



ACCIONA CONSTRUCCION SA

Spain

EU contribution

€ 313 160,00

Address

CALLE MESENA 80
28033 MADRID

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](#)

Total cost

No data



RINA CONSULTING SPA

Italy

EU contribution

€ 314 433,20

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

No data



TOMRA SORTING GMBH

Germany

EU contribution

€ 115 589,60

Address

OTTO HAHN STRASSE 6
56218 Mulheim Karlich

Region

Rheinland-Pfalz > Koblenz > Mayen-Koblenz

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

No data



DERRIBOS PETRALANDA SL

Spain

EU contribution

€ 266 635,00

Address

AV. TXORIERRI ETORBIDEA 26-D
48180 LOIU

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

No data



INGENIEURBUERO TRINIUS GMBH

 Germany

EU contribution

€ 121 080,00

Address

BARMBEKER STRASSE 9A
22303 HAMBURG 

Region

Hamburg > Hamburg > Hamburg

Activity type

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

Links

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

Total cost

No data



Conenor Oy

 Finland

EU contribution

€ 208 783,60

Address

KAITILANTIE 30
16300 Orimattila 

Region

Manner-Suomi > Etelä-Suomi > Päijät-Häme

Activity type

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

Links

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

Total cost

No data



ATON-HT SPOLKA AKCYJNA

 Poland

EU contribution

€ 65 629,00

Address

NA GROBLI 6
50 421 WROCLAW 

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

No data



BRIJSSE MINERALS & RECYCLING BVBA

 Belgium

EU contribution

€ 93 065,00

Address

Ouwegemsesteenweg 30
9750 Zingem 

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

No data



JACOBS NV

 Belgium

EU contribution

€ 69 740,00

Address

BERLAARBAAN 404

2861 Onze Lieve Vrouw Waver 

Region

Vlaams Gewest > Prov. Antwerpen > Arr. Mechelen

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

No data

Last update: 26 May 2017

Permalink: <https://cordis.europa.eu/project/id/265212>

European Union, 2025