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Resource Conservative Manufacturing- transforming waste into high value resource through closed-loop product systems

Fact Sheet

Project Information

RESCOM

Grant agreement ID: 603843

Project closed

Start date
1 November 2013

End date
31 October 2017



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

Total cost
€ 5 991 952,61

EU contribution
€ 4 367 380,96

Coordinated by
KUNGLIGA TEKNISKA
HOEGSKOLAN
 Sweden

This project is featured in...



Resource efficiency: Powering green growth for Europe

Objective

In a world with growing pressures on resources and the environment, the EU has no choice but to go for the transition to a resource-efficient and ultimately regenerative circular economy. The main objective of the ResCoM project is to develop an innovative framework and a collaborative software platform for the industrial implementation of closed-loop manufacturing systems.

In ResCoM, four manufacturers who are active in B2B and B2C markets (Gorenje, tedrive, Bugaboo and Loewe) will pilot a closed loop product system in their businesses. These pilots will demonstrate how the collecting, remanufacturing and upcycling of discarded products into new added-value products will be cost-effective, resource-efficient and more sustainable than the current linear manufacturing systems.

To support the pilot development, the ResCoM consortium will develop a framework based on methodologies and tools that take in account the complex, dynamic interaction between product design (design for multiple product lifecycles), supply chain management (integrated supply chains), business model development (closed-loop business models) and remanufacturing processes .

To support the pilot operations, the ResCoM consortium will develop a software platform consisting of a closed-loop product lifecycle management module coupled with a materials information module. The platform will help guide design decisions by illustrating the benefits of closed loop product design in terms of resource efficiency, CO2 production and energy use, and will provide business metrics such as lifecycle cost estimates, rapid identification of critical materials, product specific and remanufacturing considerations and legislative requirements. The platform will be tested and evaluated by the manufacturers.

The ResCoM project results will be useful within a wide range of businesses and will

equip industries and policy-makers with the tools required to support the transition to a closed-loop model.

Fields of science (EuroSciVoc)

[natural sciences](#) > [computer and information sciences](#) > **[software](#)**

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

[social sciences](#) > [economics and business](#) > [business and management](#) > **[business models](#)**

[social sciences](#) > [economics and business](#) > [economics](#) > **[sustainable economy](#)**



Programme(s)

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

Topic(s)

[ENV.2013.6.3-1 - Turning waste into a resource through innovative technologies, processes and services](#)

Call for proposal

FP7-ENV-2013-two-stage

[See other projects for this call](#)

Funding Scheme

[CP - Collaborative project \(generic\)](#)

Coordinator



KUNGLIGA TEKNISKA HOEGSKOLAN

EU contribution

€ 925 640,00

Total cost

No data

Address

BRINELLVAGEN 8

100 44 Stockholm

 **Sweden** 

Region

Östra Sverige > Stockholm > Stockholms län

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Participants (11)



FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV

 **Germany**

EU contribution

€ 403 512,76

Address

HANSASTRASSE 27C

80686 Munchen 

Region

Bayern > Oberbayern > München, Kreisfreie Stadt

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



TECHNISCHE UNIVERSITEIT DELFT

 Netherlands

EU contribution

€ 513 021,00

Address

STEVINWEG 1

2628 CN Delft 

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



INSTITUT EUROPEEN D ADMINISTRATION DES AFFAIRES

 France

EU contribution

€ 457 330,00

Address

BOULEVARD DE CONSTANCE 903F

77305 Fontainebleau Cedex 

Region

Ile-de-France > Ile-de-France > Seine-et-Marne

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



EUROSTEP AB

 Sweden

EU contribution

€ 605 460,00

Address

GUSTAVSLUNDSVAGEN 137

167 51 Bromma 

Region

Östra Sverige > Stockholm > Stockholms län

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



IDEAL&CO EXPLORE BV

 Netherlands

EU contribution

€ 373 848,00

Address

CONRADSTRAAT 8 E

1018 NG AMSTERDAM 

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



GRANTA DESIGN LTD

United Kingdom

EU contribution

€ 415 316,00

Address

CLIFTON ROAD 62 RUSTAT HOUSE

CB1 7EG Cambridge

Region

East of England > East Anglia > Cambridgeshire CC

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



GORENJE GOSPODINJSKI APARATI DOO

Slovenia

EU contribution

€ 102 780,00

Address

PARTIZANSKA CESTA 12

3320 Velenje

Region

Slovenija > Vzhodna Slovenija > Savinjska

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



Loewe Opta GmbH

 Germany

EU contribution

€ 113 203,20

Address

Industriestrasse 11
D96317 Kronach 

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



TEDRIVE STEERING SYSTEMS GMBH

 Germany

EU contribution

€ 96 000,00

Address

HENRY FORD II STRASSE 15
42489 WULFRATH 

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



BUGABOO INTERNATIONAL BV

 Netherlands

EU contribution

€ 132 984,00

Address

PAASHEUVELWEG 9 A B

1105 BE AMSTERDAM 

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



ELLEN MACARTHUR FOUNDATION TRADINGLIMITED

 United Kingdom

EU contribution

€ 228 286,00

Address

MEDINA ROAD 42 THE SAIL LOFT 42

PO31 7BX Cowes Isle Of Wight 

Region

South East (England) > Hampshire and Isle of Wight > Isle of Wight

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

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European Union, 2025

