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# A Web-based Collaboration System for Mass Customization

## Fact Sheet

### Project Information

**E-CUSTOM**

Grant agreement ID: 260067

[Project website](#) 

Project closed

**Start date**  
1 June 2010

**End date**  
31 May 2013



**Funded under**  
Specific Programme "Cooperation": Nanosciences, Nanotechnologies, Materials and new Production Technologies

**Total cost**  
€ 4 464 865,80

**EU contribution**  
€ 3 054 600,00

**Coordinated by**  
PANEPISTIMIO PATRON  
 Greece

This project is featured in...



## Nothing gets lost: the power of biomass

### Objective

Mass production no longer seems suitable for today's market and is being replaced by mass customization. The need for satisfying the individual customers' requirements is now stronger than ever. Customers require that the product they buy fulfils their personal requirements in an individualised manner. New technologies can now make it possible to prepare unique designs of products, manufacture these products and communicate on a mass basis. The first objective of the proposed research is to engage customers in the design and development of personalised products from the initial product design up to the after market segment. A web-based system can now tailor information or products to the customer. Specifically, potential customers will be given the opportunity to modify a set of characteristics, including the choice of materials as well as the modification of the standard geometry and appearance specifications of parts belonging to a carefully chosen, personalisation-enabling, series of components of different models and variants. The second main objective is to reach an efficient level of decentralized manufacturing. The project aims to develop tools that will support the manufacturing and/or assembly of selected parts outside the central manufacturing site. Depending on the selected customization options certain manufacturing processes will be possible to be carried out by the material/parts suppliers or by the local distributors and/or service providers in a coordinated manner. Additionally, the project aims to measure the environmental footprint of the possible solutions in order to be considered when deciding on the most appropriate manufacturing solution (where, how, who and when). In order to facilitate this process, a multi-layer data exchange infrastructure will be built in order to ensure interoperability between all users.

### Fields of science (EuroSciVoc)

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

[natural sciences](#) > [computer and information sciences](#) > [data science](#) > [data exchange](#)



## Programme(s)

[FP7-NMP - Specific Programme "Cooperation": Nanosciences, Nanotechnologies, Materials and new Production Technologies](#)

## Topic(s)

[FoF.NMP.2010-2 - Supply chain approaches for small series industrial production](#)

## Call for proposal

FP7-2010-NMP-ICT-FoF  
[See other projects for this call](#)

## Funding Scheme

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

## Coordinator



### PANEPISTIMIO PATRON

EU contribution

**€ 496 395,00**

Total cost

**No data**

Address

**UNIVERSITY CAMPUS RIO PATRAS**

**265 04 Rio Patras**

 **Greece** 

Region

**Κεντρική Ελλάδα > Δυτική Ελλάδα > Αχαΐα**

Activity type

Higher or Secondary Education Establishments

Links

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

Participants (11)



MICROFUSION ALFA, S. L. ⓘ

Spain

EU contribution

No data

Address

AVENIDA OTAOLA 4  
20600 EIBAR

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



CENTRO RICERCHE FIAT SCPA

Italy

EU contribution

€ 232 500,00

Address

STRADA TORINO 50  
10043 Orbassano

Region

Nord-Ovest > Piemonte > Torino

Activity type

Research Organisations

Links

- Contact the organisation Website
- Participation in EU R&I programmes
- HORIZON collaboration network

Total cost

No data



PDTEC AG

Germany

EU contribution

€ 318 250,00

Address

ALBERT NESTLER STRASSE 10  
76131 KARLSRUHE



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



FUNDACION TECNALIA RESEARCH & INNOVATION

Spain

EU contribution

€ 266 625,00

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

No data



KARLSRUHER INSTITUT FUER TECHNOLOGIE

Germany

EU contribution

€ 341 200,00

Address

KAISERSTRASSE 12  
76131 Karlsruhe



Region

Baden-Württemberg > Karlsruhe > Karlsruhe, Stadtkreis

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



AKEO PLUS

France

EU contribution

€ 313 750,00

Address

769 RUE DE L'OUTARDE ZA EN BEAUVOIR  
01500 CHATEAU GAILLARD



Region

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



MECÁNICA MALLABI, S. L.

Spain

EU contribution

€ 175 000,00

Address

AV. URTIAGA  
48269 MALLABIA

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



ALFA PRECISION CASTING SA

Spain

EU contribution

€ 165 000,00

Address

TORREKUA 3  
20600 EIBAR GIPUZKOA

Region

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



PRIMA INDUSTRIE SPA

Italy

EU contribution

€ 173 900,00

Address

VIA TORINO-PIANEZZA 36  
10093 COLLEGNO

Region

Nord-Ovest > Piemonte > Torino

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



BRANDENBURGISCHE TECHNISCHE UNIVERSITAT COTTBUS-SENFTENBERG

Germany

EU contribution

€ 200 980,00

Address

PLATZ DER DEUTSCHEN EINHEIT 1  
03046 COTTBUS 

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**



**DELCAM LTD**

 United Kingdom

EU contribution

**€ 371 000,00**

Address

**TALBOT WAY, SMALL HEATH BUSINESS PARK  
B10 OHJ BIRMINGHAM** 

Region

**West Midlands (England) > West Midlands > Birmingham**

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:** 16 July 2019

**Permalink:** <https://cordis.europa.eu/project/id/260067>

European Union, 2025

