Sustainable Mass Customization - Mass Customization for Sustainability

Fact Sheet

Project information

S-MC-S

Grant agreement ID: 260090

Status
Closed project

Start date
1 May 2010

End date
30 April 2013

Funded under:
FP7-NMP

Overall budget:
€ 5 079 101,69

EU contribution
€ 3 464 881

Coordinated by:
SCUOLA UNIVERSITARIA PROFESSIONALE DELLA SVIZZERA ITALIANA
Switzerland

Objective

The S-MC-S project aims at supporting European manufacturing to adapt to global competitive pressures by developing methods and innovative enabling technologies towards a customer oriented and eco-efficient manufacturing. To this end, S-MC-S vision is to define and research a new production paradigm, Sustainable Mass-Customization, while also presenting Customization as one of the main driving forces behind the future success of Sustainability. Nowadays, companies still fail to profit from mass-customization because of: I- there is no real networked environment, based on a common strategy and appropriate Supply Chain, meant to empower mass customization along the entire value chain, nor specific methodologies and tools to handle Mass Customization (MC) implementation. Current industrial MC solutions are focused on single companies, thus far behind from the implementation and exploitation of the concept of multi-site multi-nation factory (and the related logistic, legislative, organizational aspects); II- the evaluation of Mass Customization implementation must move beyond the mere assessment of economic aspects, steering towards the integration of Environmental and Social consequences into the assessment of the value chain. S-MC-S addresses these issues by promoting 4 RTD Pillars: 1) Design Tools: defining methodologies and tools capable to manage growing complexity of product, production and supply chain configurations imposed by MC implementation in a networked environment. 2) Assessment model: defining the assessment model needed to evaluate the impact of production systems and different supply chain configurations 3) Business Model: defining the framework and strategies for creating economic, social and ecological value through the systematic implementation of S-MC-S paradigm. 4) New specific MC technology: researching pilot MC enabling technology in 3 different sectors, to support manufacturing transition towards sustainable MC (leather; furniture; stone)
Field of Science

- economics and business
- business model
- sustainable development

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

SCUOLA UNIVERSITARIA PROFESSIONALE DELLA SVIZZERA ITALIANA
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Stabile Le Gerre
6928 Manno
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Activity type
Higher or Secondary Education Establishments
EU Contribution
€ 548 226

Website
Contact the organisation

Administrative Contact
Claudio Roberto Boer (Prof.)

Participants (13)
<table>
<thead>
<tr>
<th>Organisation</th>
<th>Country</th>
<th>EU Contribution</th>
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<td>POLITECNICO DI MILANO</td>
<td>Italy</td>
<td>€ 367 800</td>
<td>Piazza Leonardo Da Vinci 32 20133 Milano</td>
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<td>ECOLE CENTRALE DE NANTES</td>
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<td>TTS TECHNOLOGY TRANSFER SYSTEMS SRL</td>
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<td>€ 336 400</td>
<td>Largo Caleotto 1 23900 Lecco Lc</td>
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Website
Contact the organisation
Administrative Contact
Laura Catellani (Mrs.)

Website
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Administrative Contact
Alain Bernard (Prof.)

Website
Contact the organisation
Administrative Contact
Roberto Castellani (Dr.)
<table>
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<tr>
<th>Institution</th>
<th>EU Contribution</th>
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<tr>
<td>INSTITUTO TECNOLOGICO Y DE ESTUDIOS SUPERIORES DE MONTERREY</td>
<td>€ 309 680</td>
<td>Av. Eugenio Garza Sada 2501 64849 Monterrey Nuevo Leon</td>
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<td>ROPARDO SRL</td>
<td>€ 116 400</td>
<td>Str Reconstructiei 2a 550129 Sibiu</td>
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<td>THEMA SYSTEM SRL</td>
<td>€ 164 400</td>
<td>Via J.F. Kennedy 31 56020 Montopoli In Val D'Arno (Pisa)</td>
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<td>LION CALZATURE SPA</td>
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<td>Via Alessandro Volta 49 56028 San Miniato Basso</td>
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<td>ASOCIACION DE INVESTIGACION DE LASINDUSTRIAS DEL CURTIDO Y ANEXAS</td>
<td>€ 169 001.76</td>
<td>Spain</td>
<td>Avinguda Pla De La Massa S/N 08700 Igualada</td>
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<td>Italy</td>
<td>Via MarioFranza 1 10010 Lessolo</td>
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**Administrative Contact**

Paolo Nacci (Mr.)

Juan Carlos Castell Escuer (Dr.)

Giuseppe Lucisano (Mr.)
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<td>HOMAG HOLZBEARBEITUNGSSYSTEME GMBH</td>
<td>Germany</td>
<td>€ 220 875</td>
<td>Homagstrasse 3-5</td>
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