Training Network for Self-Healing Materials: from Concepts to Market

Fact Sheet

Project Information

**SHEMAT**

Grant agreement ID: 290308

**Status**

Closed project

**Start date**

1 January 2012

**End date**

31 December 2015

**Funded under**

FP7-PEOPLE

**Overall budget**

€ 3 891 406,66

**EU contribution**

€ 3 891 406,66

**Coordinated by**

FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

Germany

Objective

The aim of the present Marie Curie project proposal is the development of self-healing materials, the market implementation for the most promising material concepts and developments as well as the training of young scientists and their knowledge transfer in mutual interaction programs due to the distinct interdisciplinary shape of the project.

The partners intend to address both actual fundamental research in material development as well as the complementary aspects of conceptual process chain analysis from a more industrial perspective. We have chosen to restrict our research to self healing material concepts with an existing sizeable academic development
base and a sufficient number of positive findings to ensure a significant possibility of successful conversion to industrial application. If we succeed in bridging the gaps in knowledge and understanding for these promising materials, industrial development of these concepts and technologies is to be expected. This can only be achieved if specific interdisciplinary training is provided to young researchers, to master the concepts, know how to quantify healing, and how to position these materials in the application fields. Finally, it should be made clear that, notwithstanding the industrial oriented approach in this proposal, the work to be undertaken will always be of the highest scientific/academic character and aims to set a new standard in the development of novel material concepts.

The objects of the proposal are

- training and education for junior researchers and a strong support for the interdisciplinarity of the project to ensure technology transfer from laboratory research to industrial application
- promote actual self-healing strategies an concepts that address current materials or engineering limitations to application
- exploit the existing scientific and technological leadership of the partners to deliver viable and advanced solutions for the commercial exploitation of self-healing materials.

Field of science

/social sciences/economics and business/business and management/commerce

Programme(s)

Topic(s)

Call for proposal

FP7-PEOPLE-2011-ITN

Funding Scheme

MC-ITN - Networks for Initial Training (ITN)

Coordinator
<table>
<thead>
<tr>
<th>Organisation Name</th>
<th>Country</th>
<th>EU Contribution</th>
<th>Address</th>
<th>Activity Type</th>
<th>Contact Person</th>
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<tbody>
<tr>
<td>Fraunhofer GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.</td>
<td>Germany</td>
<td>€ 636 114,84</td>
<td>Hansastrasse 27C 80686 Munchen, Germany</td>
<td>Research Organisations</td>
<td>Walter Krause</td>
</tr>
<tr>
<td>Technische Universiteit Delft</td>
<td>Netherlands</td>
<td>€ 774 306,32</td>
<td>Stevinweg 1, 2628 CN Delft, Netherlands</td>
<td>Higher or Secondary Education Establishments</td>
<td>Theresia Twickler (Dr.)</td>
</tr>
<tr>
<td>Ecole Superieure de Physique et de Chimie Industrielles de la Ville de Paris</td>
<td>France</td>
<td>€ 264 796,90</td>
<td>Rue Vauquelin 10, 75231 Paris, France</td>
<td>Higher or Secondary Education Establishments</td>
<td>Jean-Marie Nguyen (Mr.)</td>
</tr>
<tr>
<td>University of Bristol</td>
<td>United Kingdom</td>
<td></td>
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<tr>
<td>Beacon House Queens Road</td>
<td>United Kingdom</td>
<td>565,206.21</td>
<td>Beacon House Queens Road BS8 1QU Bristol</td>
<td>Higher or Secondary Education Establishments</td>
<td></td>
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<tr>
<td>ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE</td>
<td>Switzerland</td>
<td>500,338.12</td>
<td>Batiment Ce 3316 Station 1 1015 Lausanne</td>
<td>Higher or Secondary Education Establishments</td>
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<tr>
<td>ALBERT-LUDWIGS-UNIVERSITAET FREIBURG</td>
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<td>432,790.02</td>
<td>Fahnenbergplatz 79098 Freiburg</td>
<td>Higher or Secondary Education Establishments</td>
<td></td>
</tr>
<tr>
<td>UNIVERSITEIT GENT</td>
<td>Belgium</td>
<td>271,957.22</td>
<td>Sint Pietersnieuwstraat 25 9000 Gent</td>
<td>Higher or Secondary Education Establishments</td>
<td></td>
</tr>
</tbody>
</table>
GKT GUMMI - UND KUNSTSTOFFTECHNIK FURSTENWALDE GMBH
Germany
EU contribution € 237 327,72
Address
Trankeweg 3
15517 Furstenwalde
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Website
Contact the organisation
Administrative Contact
Dirk De Craemer (Ms.)

AVECOM
Belgium
EU contribution € 208 569,31
Address
Industrieweg 122P
9032 Gent-wondelgem
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Website
Contact the organisation
Administrative Contact
Robert Bloße (Mr.)

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