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Engineered nanomaterial mechanisms of interactions with living systems and the environment: a universal framework for safe nanotechnology

Fact Sheet

Project Information

NANOMILE

Grant agreement ID: 310451

Project closed

Start date

1 March 2013

End date

28 February 2017

Funded under

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

Total cost

€ 12 965 197,01

EU contribution

€ 9 624 979,00

Coordinated by

THE UNIVERSITY OF
BIRMINGHAM

 United Kingdom

Objective

The NanoMILE project is conceived and led by an international elite of scientists from the EU and US with the aim to establish a fundamental understanding of the mechanisms of nanomaterial interactions with living systems and the environment,

and uniquely to do so across the entire life cycle of nanomaterials and in a wide range of target species. Identification of critical properties (physico-chemical descriptors) that confer the ability to induce harm in biological systems is key to allowing these features to be avoided in nanomaterial production (“safety by design”). Major shortfalls in the risk analysis process for nanomaterials are the fundamental lack of data on exposure levels and the environmental fate and transformation of nanomaterials, key issues that this proposal will address, including through the development of novel modelling approaches. A major deliverable of the project will be a framework for classification of nanomaterials according to their impacts, whether biological or environmental, by linking nanomaterial-biomolecule interactions across scales (sub-cellular to ecosystem) and establishing the specific biochemical mechanisms of interference (toxicity pathway).

Fields of science (EuroSciVoc)

[engineering and technology](#) > [nanotechnology](#) > **[nano-materials](#)**



Programme(s)

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

Topic(s)

[NMP.2012.1.3-1 - Systematic investigations of the mechanisms and effects of engineered nanomaterial interactions with living systems and/or the environment](#)

Call for proposal

FP7-NMP-2012-LARGE-6

[See other projects for this call](#)

Funding Scheme

[CP-IP - Large-scale integrating project](#)

Coordinator



THE UNIVERSITY OF BIRMINGHAM

EU contribution

€ 1 484 724,85

Total cost

No data

Address

Edgbaston

B15 2TT Birmingham

 **United Kingdom** 

Region

West Midlands (England) > West Midlands > Birmingham

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Participants (28)



KARLSRUHER INSTITUT FUER TECHNOLOGIE

 **Germany**

EU contribution

€ 659 343,00

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



UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN

 Ireland

EU contribution

€ 586 688,00

Address

BELFIELD

4 Dublin 

Region

Ireland > Eastern and Midland > Dublin

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



COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES

 France

EU contribution

€ 610 161,00

Address

RUE LEBLANC 25

75015 PARIS 15 

Region

Ile-de-France > Ile-de-France > Paris

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION

 Belgium

EU contribution

€ 568 116,00

Address

Rue de la Loi 200

1049 Bruxelles / Brussel 

Region

Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest > Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



EIDGENOSSISCHE MATERIALPRUFUNGS- UND FORSCHUNGSANSTALT

 Switzerland

EU contribution

€ 253 704,00

Address

UEBERLANDSTRASSE 129

8600 Dubendorf 

Region

Schweiz/Suisse/Svizzera > Zürich > Zürich

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



EIDGENOESSISCHE ANSTALT FUER WASSERVERSORGUNG ABWASSERREINIGUNG UND GEWAESSERSCHUTZ

 Switzerland

EU contribution

€ 258 538,00

Address

UBERLANDSTRASSE 133
8600 Dubendorf 

Region

Schweiz/Suisse/Svizzera > Zürich > Zürich

Activity type

Other

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



UNIVERSITE DE GENEVE

 Switzerland

EU contribution

€ 252 746,00

Address

RUE DU GENERAL DUFOUR 24
1211 Geneve 

Region

Schweiz/Suisse/Svizzera > Région lémanique > Genève

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



RIJKSINSTITUUT VOOR VOLKSGEZONDHEID EN MILIEU

 Netherlands

EU contribution

€ 459 011,00

Address

Antonie Van Leeuwenhoeklaan 9
3721 MA Bilthoven 

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



THE UNIVERSITY OF EXETER

 United Kingdom

EU contribution

€ 517 260,00

Address

THE QUEEN'S DRIVE NORTHCOTE HOUSE
EX4 4QJ Exeter

Region

South West (England) > Devon > Devon CC

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



LUDWIG-MAXIMILIANS-UNIVERSITAET MUENCHEN

 Germany

EU contribution

€ 240 000,00

Address

GESCHWISTER SCHOLL PLATZ 1
80539 MUNCHEN 

Region

Bayern > Oberbayern > München, Kreisfreie Stadt

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



THE REGENTS OF THE UNIVERSITY OF CALIFORNIA

 United States

EU contribution

No data

Address

FRANKLIN STREET 1111 12 FLOOR
94607 Berkeley 

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



DUKE UNIVERSITY

 United States

EU contribution

No data

Address

ALLEN BUILDING 207
27708 Durham Nc 

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



UNIVERSITEIT UTRECHT

 Netherlands

EU contribution

€ 300 000,00

Address

HEIDELBERGLAAN 8
3584 CS Utrecht 

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



DET NATIONALE FORSKNINGSCENTER FOR ARBEJDSMILJØ

 Denmark
EU contribution

€ 404 880,00

Address
LERSO PARKALLE 105
2100 Kobenhavn 

Region
Danmark > Hovedstaden > Byen København

Activity type
Research Organisations

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

Total cost
No data



THE UNIVERSITY OF EDINBURGH

 United Kingdom
EU contribution

€ 206 785,00

Address

OLD COLLEGE, SOUTH BRIDGE
EH8 9YL Edinburgh 

Region
Scotland > Eastern Scotland > Edinburgh

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



IUF - LEIBNIZ-INSTITUT FUR UMWELTMEDIZINISCHE FORSCHUNG GMBH

 Germany
EU contribution

€ 253 920,00

Address
AUF M HENNEKAMP 50
40225 Dusseldorf 

Region
Nordrhein-Westfalen > Düsseldorf > Düsseldorf, Kreisfreie Stadt

Activity type
Other

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

Total cost
No data



VITROCELL SYSTEMS GMBH

 Germany
EU contribution

€ 152 499,00

Address

FABRIK SONNTAG 3
79183 WALDKIRCH 

Region

Baden-Württemberg > Freiburg > Emmendingen

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



NOVAMECHANICS LIMITED

 Cyprus

EU contribution

€ 353 640,00

Address

DIGENI AKRITA 51
1070 Nicosia 

Region

Κύπρος > Κύπρος > Κύπρος

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



NANO4IMAGING GMBH

 Germany

EU contribution

€ 274 000,00

Address

MEROWINGER PLATZ 1
52074 Dusseldorf 

Region

Nordrhein-Westfalen > Düsseldorf > Düsseldorf, Kreisfreie Stadt

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



UNIVERZA V LJUBLJANI

 Slovenia

EU contribution

€ 189 200,00

Address

KONGRESNI TRG 12
1000 Ljubljana 

Region

Slovenija > Zahodna Slovenija > Osrednjeslovenska

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



PROMETHEAN PARTICLES LTD

United Kingdom

EU contribution

€ 225 600,00

Address

1-3 Genesis Park, Midland Way

NG7 3EF Nottingham

Region

East Midlands (England) > Derbyshire and Nottinghamshire > Nottingham

Links

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

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

[HORIZON collaboration network](#)

Total cost

No data



EUROFINS AGROSCIENCE SERVICES ECOCHEM GMBH

Germany

EU contribution

€ 144 378,00

Address

EUTINGER STRASSE 24

75223 NIEFERN OSCHELBRONN

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



EUROPEAN RISK & RESILIENCE INSTITUTE (EU-VRI) EWIV

 Germany

EU contribution

€ 371 200,00

Address

FANGELSBACHSTRASSE 14
70178 STUTTGART 

Region

Baden-Württemberg > Stuttgart > Stuttgart, Stadtkreis

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



BASF SE

 Germany

EU contribution

€ 225 000,00

Address

CARL BOSCH STRASSE 38
67063 Ludwigshafen Am Rhein 

Region

Rheinland-Pfalz > Rheinhessen-Pfalz > Ludwigshafen am Rhein, Kreisfreie Stadt

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



BIOMAX INFORMATICS AG

 Germany

EU contribution

€ 249 450,00

Address

**ROBERT KOCH STRASSE 2
82152 STEINKIRCHEN** 

Region

Bayern > Oberbayern > München, Landkreis

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



ATTANA AB

 Sweden

EU contribution

€ 250 000,00

Address

**GREV TUREG 14 3 1/2 TR
114 46 Stockholm** 

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



NANOSIGHT LIMITED

 United Kingdom

EU contribution

€ 48 930,50

Address

LONDON ROAD MINTON PARK
SP4 7RT WILTSHIRE 

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



MALVERN PANALYTICAL LIMITED

 United Kingdom

EU contribution

€ 85 204,65

Address

GROVEWOOD ROAD ENIGMA BUSINESS PARK
WR14 1XZ Malvern 

Region

West Midlands (England) > Herefordshire, Worcestershire and Warwickshire >
Worcestershire

Activity type

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

Links

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- [HORIZON collaboration network](#) 

Total cost

No data

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European Union, 2025

