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Sustainable Soil Upgrading by Developing Cost-effective, Biogeochemical Remediation Approaches

Fact Sheet

Project Information

UPSOIL

Grant agreement ID: 226956

[Project website](#) 

Project closed

Start date

1 October 2009

End date

30 September 2012



Funded under

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

Total cost

€ 4 509 946,65

EU contribution

€ 3 394 869,25

Coordinated by

FUNDACION TECNALIA
RESEARCH & INNOVATION

 Spain

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Objective

UPSOIL aims to achieve a breakthrough in in-situ remediation through an innovative technological perspective taking into account the physical properties and the biogeochemical reactivity of the soil as well as the contaminants. To this end UPSOIL will develop robust technologies for fast, cost-effective, integrated source zone and plume treatment. These are designed to result both in timely reached restored soil functions and associated risk levels, and a maximal use of the natural soil rehabilitation potential at a longer term. UPSOIL thus supports soil function preservation and faster restoration and sustainable redevelopment of European regions and cities that carry the burden of historical soil contamination.

Accompanying goals are to broaden the market of soil remediation for SMEs and to build confidence with regulators in adopting sustainable in-situ remediation as the preferable approach for soil restoration. UPSOIL will focus on soils with organic contaminants while addressing effects on metal mobilization, aiding in the remediation of the most pressing soil pollution cases in Europe. Within the UPSOIL perspective, smart coupling of technologies is one approach to optimise remediation with respect to cost, time and soil sustainability. In addition, highly innovative techniques (to be patented) will be developed. These include the automatic targeting of the injection of the remedial agent, and the use of specifically developed selective remedial agents that preferably react with the contaminant and not with the soil matrix. UPSOIL joins strong partners from different EU regions that form a balanced mix of scientific knowledge groups, applied science experience, and practical input through SMEs and contractors that also secure testing of the technologies develop in real field site situations and a further market application of the developed knowledge.

Fields of science (EuroSciVoc)

[medical and health sciences](#) > [clinical medicine](#) > [physiotherapy](#)

[natural sciences](#) > [earth and related environmental sciences](#) > [environmental sciences](#) > [pollution](#)



Keywords

In situ remediation

biogeochemistry

cost-effective

driven injection

especific targeting

feed back driven

frontier technologies

natural soil potential

organics

smart coupling

sustainable

Programme(s)

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

Topic(s)

[ENV.2008.3.1.2.1. - Recovery of degraded soil resources](#)

Call for proposal

FP7-ENV-2008-1

[See other projects for this call](#)

Funding Scheme

[CP-FP - Small or medium-scale focused research project](#)

Coordinator



FUNDACION TECNALIA RESEARCH & INNOVATION

EU contribution

€ 500 444,50

Total cost

No data

Address

PARQUE CIENTIFICO Y TECNOLOGICO DE BIZKAIA, ASTONDO BIDEA, EDIFICIO 700
48160 DERIO BIZKAIA

 Spain 

Region

Noreste > País Vasco > Gipuzkoa

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Participants (14)



VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.

 Belgium

EU contribution

€ 484 295,00

Address

BOERETANG 200

2400 Mol 

Region

Vlaams Gewest > Prov. Antwerpen > Arr. Turnhout

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



STICHTING DELTARES

 Netherlands

EU contribution

€ 575 850,00

Address

BOUSSINESQWEG 1
2629 HV Delft 

Activity type

Research Organisations

Links

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

Total cost

No data



WAGENINGEN UNIVERSITY

 Netherlands

EU contribution

€ 367 728,75

Address

DROEVENDAALSESTEEG 4
6708 PB Wageningen 

Region

Oost-Nederland > Gelderland > Veluwe

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



INSTYTUT EKOLOGII TERENOW UPRZEMYSLOWIONYCH

 Poland

EU contribution

€ 231 300,00

Address

ULICA KOSSUTHA 6

40 844 Katowice 

Region

Makroregion południowy > Śląskie > Katowicki

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



INSTITUTUL NATIONAL DE CERCETARE DEZVOLTARE PENTRU ECOLOGIE INDUSTRIALA

 Romania

EU contribution

€ 134 694,00

Address

DRUMUL PODU DAMBOVITEI 57-73

060652 Bucuresti 

Region

Macroregiunea Trei > București-Ilfov > București

Activity type

Other

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



STATENS GEOTEKNISKA INSTITUT

 Sweden

EU contribution

€ 198 300,00

Address

OLAUS MAGNUS VAG 35

58193 Linköping 

Region

Östra Sverige > Östra Mellansverige > Östergötlands län

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



ENACON SRO

 Czechia

EU contribution

€ 49 276,00

Address

Na holem vrchu 708/3

143 00 Praha 4 

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



Ecorem Baltija UAB

 Lithuania

EU contribution

€ 114 593,00

Address

Donelaicio 55-2

3000 Kaunas 

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



DEKONTA, a.s.

 Czechia

EU contribution

€ 81 840,00

Address

Dretovice 109

27342 Stehelceves 

Activity type

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

Links

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

[HORIZON collaboration network](#) 

Total cost

No data



Przedsiębiorstwo Oczyszczania Wod i Ziemi POWIZ Sp. z o. o.

 Poland

EU contribution

€ 82 950,00

Address

Fabryczna 10-13

53-609 Wroclaw 

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



Ejlskov Consult A/S

 Denmark

EU contribution

€ 154 080,00

Address

Voldbjergvej 14

8240 Risskov 

Activity type

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

Links

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[HORIZON collaboration network](#) 

Total cost

No data



REHABILITACION DE SUELOS, S.L.

 Spain

EU contribution

€ 77 040,00

Address

TORPEDERO TUCUMAN 26, bajo A
28016 MADRID 

Activity type

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

Links

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

[HORIZON collaboration network](#) 

Total cost

No data



BIUTEC - Biotechnologie und Umwelttechnologie Forschungs- und EntwicklungsgmbH

 Austria

EU contribution

€ 153 780,00

Address

Seeböckgasse 32b
1160 Wien 

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



GEOTECNIA Y CIMENTOS S.A.

 Spain

EU contribution

€ 188 698,00

Address

CALLE LOS LLANOS DE JEREZ 10-12
28820 MADRID 

Activity type

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

Links

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[HORIZON collaboration network](#) 

Total cost

No data

Last update: 6 September 2024

Permalink: <https://cordis.europa.eu/project/id/226956>

European Union, 2025

