

 Content archived on 2024-06-18



Groundwater and dependent Ecosystems: NEw Scientific basIS on climate change and land-use impacts for the update of the EU Groundwater Directive

Fact Sheet

Project Information

GENESIS

Grant agreement ID: 226536

[Project website](#) 

Project closed

Start date

1 April 2009

End date

31 March 2014

Funded under

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

Total cost

€ 9 170 625,20

EU contribution

€ 6 997 200,00

Coordinated by

NIBIO - NORSK INSTITUTT FOR
BIOØKONOMI



Norway

Objective

Groundwater resources are facing increasing pressure from consumptive uses (irrigation, water supply, industry) and contamination by diffuse loading (e.g.

agriculture) and point sources (e.g. industry). This cause major threat and risks to our most valuable water resource and on ecosystems dependent on groundwater. New information is need on how to better protect groundwaters and groundwater dependent ecosystems (GDE) from intensive land-use and climate change. The impacts of land-use changes and climate changes are difficult to separate as they partly result in similar changes in the ecosystems affected. The effects are highly interwoven and complex. The EU groundwater directive (GWD) and the water framework directive (WFD) provide means to protect groundwater (GW) aquifers from pollution and deterioration. At present, the maximum limits for groundwater pollutant concentrations have been set for nitrate and various pesticides. Also, water of sufficient quality and quantity should be provided to ecosystems dependent on groundwater. The European aquifers differ by their geology, climate, and threats to aquifers. This must be considered when general guidelines for management of these systems are developed. The concept of the present proposal is to base the research on different relevant aquifer sites in various European countries to test scientific issues and find new results to important problems. Seven WP are foreseen: WP1 Case studies on impacts and threats to GWs and GDEs WP2 Groundwater dynamics, re-charge and water balance WP3 Leaching to groundwater aquifers from different land-uses WP4 Groundwater dependent ecosystems: groundwater-surface water interaction WP5 Modelling processes in groundwater systems WP6 Concepts, scenarios and risk assessment WP7 Co-ordination

Fields of science (EuroSciVoc)

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

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

[natural sciences](#) > [biological sciences](#) > [ecology](#) > [ecosystems](#)

[natural sciences](#) > [earth and related environmental sciences](#) > [atmospheric sciences](#) > [climatology](#) > [climatic changes](#)

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



Keywords

[Aquifers](#)

[Assessment](#)

[Ecosystems](#)

[Geology.](#)

[Groundwater](#)

[Groundwater Directive](#)

[Hydrology.](#)

[Management](#)

[Modelling](#)

[Policy.](#)

Programme(s)

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

Topic(s)

[ENV.2008.2.1.2.1. - Groundwater systems](#)

Call for proposal

FP7-ENV-2008-1

[See other projects for this call](#)

Funding Scheme

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

Coordinator



NIBIO - NORSK INSTITUTT FOR BIOKONOMI

EU contribution

€ 1 162 453,20

Total cost

No data

Address

HOEGSKOLEVEIEN 7

1430 Aas

 **Norway** 

Activity type

Research Organisations

Links

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

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

Participants (27)



OULUN YLIOPISTO

 Finland

EU contribution

€ 413 376,00

Address

PENTTI KAITERAN KATU 1

90014 Oulu 

Region

Manner-Suomi > Pohjois- ja Itä-Suomi > Pohjois-Pohjanmaa

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



JOANNEUM RESEARCH FORSCHUNGSGESELLSCHAFT MBH

 Austria

EU contribution

€ 413 876,00

Address

LEONHARDSTRASSE 59

8010 Graz 

Region

Südösterreich > Steiermark > Graz

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH

 Switzerland

EU contribution

€ 391 080,00

Address

Raemistrasse 101

8092 Zuerich 

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



LULEA TEKNISKA UNIVERSITET

 Sweden

EU contribution

€ 262 218,00

Address

UNIVERSITETSOMRADET PORSON

971 87 Lulea 

Region

Norra Sverige > Övre Norrland > Norrbottens län

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



UNIVERSITATEA DIN BUCURESTI

 Romania

EU contribution

€ 75 000,00

Address

SOSEAUA PANDURI 90

050663 Bucuresti 

Region

Macroregiunea Trei > București-Ilfov > București

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



GIS-GEOINDUSTRY, s.r.o.

 Czechia

EU contribution

€ 165 000,00

Address

TLESKACOVA 1329/16

323 00 Plzen 

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



INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT

 France

EU contribution

€ 262 499,00

Address

147 RUE DE L'UNIVERSITE

75007 Paris 

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



STICHTING WAGENINGEN RESEARCH

 Netherlands

EU contribution

€ 338 340,00

Address

DROEVENDAALSESTEEG 4

6708 PB Wageningen 

Region

Oost-Nederland > Gelderland > Veluwe

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



HELMHOLTZ ZENTRUM MUENCHEN DEUTSCHES FORSCHUNGSZENTRUM FUER GESUNDHEIT UND UMWELT GMBH

 Germany

EU contribution

€ 219 000,00

Address

INGOLSTADTER LANDSTRASSE 1

85764 Neuherberg 

Region

Bayern > Oberbayern > München, Landkreis

Activity type

Research Organisations

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

€ 262 499,00

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



AKADEMIA GORNICZO-HUTNICZA IM. STANISLAWA STASZICA W KRAKOWIE

 Poland

EU contribution

€ 284 999,00

Address

AL ADAMA MICKIEWICZA 30

30-059 Krakow 

Region

Makroregion południowy > Małopolskie > Miasto Kraków

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



UNIVERSITA CATTOLICA DEL SACRO CUORE

Italy

EU contribution

€ 413 500,00

Address

LARGO GEMELLI 1

20123 Milano

Region

Nord-Ovest > Lombardia > Milano

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



IGEM Danismanlik Organizasyon Arastirma Ltd. Sti.

Türkiye

EU contribution

€ 210 000,00

Address

Kaptan Arif sok., Anamur apt.12, Daire 9

34740 Istanbul

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



UNIVERSITAT POLITECNICA DE VALENCIA

Spain

EU contribution

€ 391 163,00

Address

CAMINO DE VERA SN EDIFICIO 3A

46022 Valencia

Region

Este > Comunitat Valenciana > Valencia/València

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



DIMOKRITIO PANEPISTIMIO THRAKIS

Greece

EU contribution

€ 187 500,00

Address

PANEPISTIMIOUPOLI RECTORATE BUILDING

691 00 KOMOTINI

Region

Βόρεια Ελλάδα > Ανατολική Μακεδονία > Ροδόπη

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




POLITECHNIKA KRAKOWSKA

 Poland

EU contribution

€ 82 500,00

Address

WARSZAWSKA 24
31 155 Krakow 

Region

Makroregion południowy > Małopolskie > Miasto Kraków

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



UNIVERSITE DE NEUCHATEL

 Switzerland

EU contribution

€ 224 880,00

Address

FAUBOURG DE L'HOPITAL 41
2000 Neuchatel 

Region

Schweiz/Suisse/Svizzera > Espace Mittelland > Neuchâtel

Activity type

Higher or Secondary Education Establishments

Links

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

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

Total cost

No data



UNIVERSITA DEGLI STUDI DI FERRARA 

 Italy

EU contribution

€ 105 000,00

Address

VIA ARIOSTO 35

44121 Ferrara 

Region

Nord-Est > Emilia-Romagna > Ferrara

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



ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS - RESEARCH CENTER

 Greece

EU contribution

€ 150 000,00

Address

KEFALLINIAS STREET 45

112 57 ATHINA 

Region

Αττική > Αττική > Κεντρικός Τομέας Αθηνών

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

No data



UNIVERSITY OF DUNDEE

 United Kingdom

EU contribution

€ 210 023,00

Address

Nethergate

DD1 4HN Dundee 

Region

Scotland > Eastern Scotland > Angus and Dundee City

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



SVEUCILISTE U ZAGREBU RUDARSKO-GEOLOSKO-NAFTNI FAKULTET

 Croatia

EU contribution

€ 150 000,00

Address

PIEROTTIJEVA 6

10000 Zagreb 

Region

Hrvatska > Grad Zagreb > Grad Zagreb

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



HELMHOLTZ-ZENTRUM FUR UMWELTFORSCHUNG GMBH - UFZ

 Germany

EU contribution

€ 195 000,00

Address

PERMOSERSTRASSE 15

04318 Leipzig 

Region

Sachsen > Leipzig > Leipzig

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



SVERIGES METEOROLOGISKA OCH HYDROLOGISKA INSTITUT

 Sweden

EU contribution

€ 194 850,00

Address

FOLKBORGSVAGEN 1

601 76 NORRKOEPING 

Region

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



THE UNIVERSITY OF MANCHESTER 

 United Kingdom

EU contribution

€ 90 244,00

Address

OXFORD ROAD
M13 9PL Manchester 

Region

North West (England) > Greater Manchester > Manchester

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



ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA

 Italy

EU contribution

€ 45 000,00

Address

VIA ZAMBONI 33
40126 Bologna 

Region

Nord-Est > Emilia-Romagna > Bologna

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



CHRISTIAN-ALBRECHTS-UNIVERSITAET ZU KIEL 

 Germany

EU contribution

€ 38 998,80

Address

OLSHAUSENSTRASSE 40

24118 Kiel 

Region

Schleswig-Holstein > Schleswig-Holstein > Kiel, 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



TECHNISCHE UNIVERSITAET MUENCHEN

 Germany

EU contribution

€ 58 201,00

Address

Arcisstrasse 21
80333 Muenchen



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

Last update: 1 August 2019

Permalink: <https://cordis.europa.eu/project/id/226536>

European Union, 2025