Development of rehabilitation technologies and approaches for multipressured degraded waters and the integration of their impact on river basin management

Fact Sheet

Project Information

**AQUAREHAB**
Grant agreement ID: 226565

**Status**
Closed project

**Start date**
1 May 2009

**End date**
31 December 2013

**Funded under**
FP7-ENVIRONMENT

**Overall budget**
€ 8 586 544,60

**EU contribution**
€ 6 584 659,05

**Coordinated by**
VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.
Belgium

This project is featured in...
Objective

Within the AQUAREHAB project, different innovative rehabilitation technologies for soil, groundwater and surface water will be developed to cope with a number of hazardous (nitrates, pesticides, chlorinated and aromatic compounds, mixed pollutions,...) within heavily degraded water systems. The technologies are activated riparian zones/wetlands; smart biomass containing carriers for treatment of water in open trenches; in-situ technologies to restore degraded surface water by inhibiting influx of pollutants from groundwater to surface water; multifunctional permeable barriers and injectable Fe-based particles for rehabilitation of groundwater. Methods will be developed to determine the (long-term) impact of the innovative rehabilitation technologies on the reduction of the influx of these priority pollutants towards the receptor. A connection between the innovative technologies and river basin management will be worked out. In a first stage of the project, the technologies and integration of their impact in river basin management will be developed in three different river basins (Denmark, Israel, Belgium). In a second stage, the generic approaches will be extrapolated to one or two more river basins. One of the major outcomes of the project will be a generic river basin management tool that integrates multiple measures with ecological and economic impact assessments of the whole water system. The research in the project is focussed on innovative rehabilitation strategies to reduce priority pollutants in the water system whereas the generic management tool will include other measures related to flood protection, water scarcity and ecosystem health, The project will aid in underpinning river basin management plans being developed in EU Member States, and will demonstrate cost effective technologies that can provide technical options for national and local water managers, planners and other stakeholders (drinking water companies, industry, agriculture,

Field of science

/medical and health sciences/clinical medicine/physiotherapy
/agricultural sciences/agriculture, forestry, and fisheries
Programme(s)

Topic(s)

Call for proposal

FP7-ENV-2008-1

Funding Scheme

CP-IP - Large-scale integrating project

Coordinator

VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.

Address
Boeretang 200
2400 Mol
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Activity type
Research Organisations

EU contribution
€ 2 002 567,25

Website
Contact the organisation

Administrative Contact
Leen Bastiaens (Dr.)

Participants (18)

KATHOLIEKE UNIVERSITEIT LEUVEN

Address
Belgium

Activity type

EU contribution
€ 415 400
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<th>Address</th>
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<td>Geological Survey of Denmark and Greenland</td>
<td>Oster Voldgade 10, 1350 Kobenhavn K</td>
<td>€ 350 602,75</td>
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<td>HELMHOLTZ ZENTRUM MUENCHEN DEUTSCHES FORSCHUNGSZENTRUM FUER GESUNDHEIT UND UMWELT GMBH</td>
<td>Ingolstadter Landstrasse 1, 85764 Neuherberg</td>
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<td>FUNDACIO CTM CENTRE TECNOLOGIC</td>
<td>Placa De La Ciencia 2, 08243 Manresa Barcelona</td>
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TECHNISCHE UNIVERSITEIT DELFT
Netherlands
EU contribution
€ 321 035,75
Address
Stevinweg 1
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Activity type
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Belgium
EU contribution
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Isodetect GmbH
Germany
EU contribution
€ 170 200
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Activity type
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UNIVERSITAET STUTTGART

Germany
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70174 Stuttgart
Higher or Secondary Education Establishments
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WAGENINGEN UNIVERSITY

Netherlands
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Activity type
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BEN-GURION UNIVERSITY OF THE NEGEV

Israel
EU contribution
€ 280 360
Address
Activity type
84105 Beer Sheva
Higher or Secondary Education Establishments
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<td>€ 160 400</td>
<td>Zerotinovo Namesti 9 60177 Brno Stred</td>
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<td>United Nations Educational, Scientific and Cultural Organization - UNESCO</td>
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<td>€ 322 561,75</td>
<td>Place De Fontenoy 7 75352 Paris</td>
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<td>The University of Sheffield</td>
<td>United Kingdom</td>
<td>€ 265 109,20</td>
<td>Firth Court Western Bank S10 2TN Sheffield</td>
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<td>KOBENHAVNS UNIVERSITET</td>
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<td>€ 252 064</td>
<td>Norregade 10 1165 Kobenhavn</td>
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INSTITUT NATIONAL DE L ENVIRONNEMENT ET DES RISQUES INERIS

France
EU contribution
€ 162 327,25

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Activity type
Research Organisations

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ENVIRONMENTAL INSTITUTE s.r.o.

Slovakia
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Private for-profit entities
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Last update: 1 August 2019
Record number: 91254

Permalink: https://cordis.europa.eu/project/id/226565

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