



# **EUGRIS**

## **Portal for Soil and Water Management in Europe**

**Final System Report**

December 2005

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# 1 Introduction

The Portal for Soil and Water Management in Europe (EUGRIS) is a platform for explaining, searching and disseminating the state of the art in technical guidance, policy, research and funding for land and groundwater information. The homepage is available at <http://www.eugris.info> or <http://www.soilandwater.info>. The development of the portal was funded within the 5th Framework Program of the European Commission. The Federal Environmental Agency Germany co-ordinates the consortium of 11 partners from Denmark, France, Germany, Hungary, Italy and the UK.

<b>Hot topics</b> <a href="#">Framework 7 Programme</a>  <a href="#">IIIIII FREE WEBCASTS FROM CONSOL 2005 IIIIII</a>  <a href="#">Introduction to using EUGRIS (PDF 2.3MB)</a>  <a href="#">About EUGRIS</a>				
	<b>Existing Member:</b> <a href="#">Edit your details</a>	<b>Existing members:</b> <a href="#">Log out</a>	<b>Viewing information:</b> <a href="#">Site Map</a> <a href="#">Site Index</a>	<b>Adding information:</b> <a href="#">Site Map</a>
<p><b>Welcome to EUGRIS:</b> The Portal for Soil and Water Management in Europe</p> <p>EUGRIS gives (legislators, regulators, consultants and members of the public) access to information on soil and groundwater management from throughout the European Union, including research projects, technical information, available training, legislation, guidance and support tools as well as explanations of many technical terms and concepts. We are obliged to tell you that use of the web site is subject to terms and conditions. By navigating to further EUGRIS pages you confirm your acceptance of these <a href="#">terms and conditions</a>.</p> <p>Unlike a simple search engine, EUGRIS provides structured access to information, based on topic or country for example, helping you to quickly find the information you need. EUGRIS operates as a community of registered people and organisations who co-operate to supply the latest information for the benefit of everyone (<a href="#">-&gt; more &lt;&lt;</a>).</p> <p>The development of the EUGRIS portal was funded within the 5th Framework Program of the European Commission.</p> <p><b>Why Register?</b> Registered members can access additional features, promote their capabilities and services and submit information and resources. Registration is free and a strict Privacy Policy is in operation.</p>				

Users can view the site casually, or be registered and then log in. On logging in the user will get an individual homepage including all new entries since the last login.



The screenshot shows the EUGRIS user interface. At the top, there is a navigation bar with links for 'Terms and conditions for use', 'About EUGRIS', 'What's New on EUGRIS', 'Help', 'Logout', 'Glossary', and 'Contact us'. Below this is a status bar showing 'EUGRIS Content: | 2351 Resources | 42 Funding Programmes | 158 Projects | 1242 Registered Users | 202 Organisations | 458 Glossary Terms |'. The main content area is titled 'Welcome Mr [Name]' and contains a table with user options: 'Your Contact/WDW Details: [Change here](#)', 'Existing members: [Log out](#)', 'Viewing information: [Site Map](#) | [Site Index](#)', 'Adding information: [Site Map](#)', and 'Enter the full site: [Enter here](#)'. Below this table is a link: 'Click here to go back to the page you were working on'. The central part of the page features a section titled 'News since my last login (11/30/2005 06:27:00)' with sub-links for 'this month', 'last month', and 'since my last login'. It lists three news items:
 

21/12/2005	180 Europe - Urban Audit provides key indicators on the quality of life in 258 European cities <a href="#">ARTICLE</a>
20/12/2005	179 Europe - sustainable development strategy. European Commission presents new platform for action <a href="#">ARTICLE</a>
13/12/2005	178 NICOLE Report: The Interaction between Soil and Waste Legislation in Ten European Union Countries <a href="#">ARTICLE</a>

 On the left side, there is a 'MAIN MENU' with links to Home, News, Topics home, Research & funding home, Country Pages home, Meetings/Training home, Library & links home, Who does what home, and About EUGRIS home. On the right side, there is a 'Toolbox' and a 'Search EUGRIS >>' field, followed by a list of home links: Accessibility home, Add information home, EUGRIS Team home, Help home, Log out, My EUGRIS home, and Online translation tools.



Without logging in the user will get this page:

**EUGRIS** Portal for Soil and Water management in Europe

Terms & conditions for use | About EUGRIS | What's New on EUGRIS | Help | Log in | Glossary | Contact us

EUGRIS Content: | 2351 Resources | 42 Funding Programmes | 165 Projects | 1254 Registered Users | 202 Organisations | 458 Glossary Terms |

**MAIN MENU**

- Home**
- News**
- Topics home**  
Topics in detail
- Research & funding home**  
Research & funding in detail
- Country Pages home**  
Country Pages in detail
- Meetings/Training home**  
Meetings/Training in detail
- Library & links home**  
Library & links in detail
- Who does what home**  
Who does what in detail
- About EUGRIS home**  
About EUGRIS in detail

**Welcome to EUGRIS**

Welcome to the EUGRIS: the European Groundwater and Contaminated Land Information System. EUGRIS provides research project information, technical information and information from the European Union and its Member States. It also provides a news service, directory of contacts in the field and an opportunity for you to post your own information. You can see links to all of the major features in the menu above. You can read EUGRIS like an on-line book or you can use its advanced search functions to access specific information.

[Is this the first time that you have used EUGRIS?](#)

[Do you want to see what's new on EUGRIS?](#)

[Do you want to search EUGRIS?](#)

[Do you want to know more about the EUGRIS team and project?](#)

Use of the web site is subject to terms and conditions. By navigating the web site you signal your acceptance of these [terms and conditions](#). No personal information is displayed until it has been activated, and users can choose not to make their contact details known on the web site. [See our Privacy Policy](#).

**Hot Topics**

[Framework 7 Programme](#) | [!!!!!! FREE WEBCASTS FROM CONSOIL 2005!!!!!!](#) | [Introduction to using EUGRIS \(PDF 2.3MB\)](#) | [About EUGRIS](#)

**Toolbox**

Search EUGRIS >>

- Accessibility home**  
Accessibility in detail
- Forgot your Password ?**
- FREE ! EUGRIS Membership**
- Help home**  
Help in detail
- Log in**
- Online translation tools**

## Background and visions

The background to EUGRIS was, that a tremendous amount of information is stored on the internet on land and groundwater management. However, available information is scattered over many websites, its provenance and reliability may be unclear and is often not well explained for those who are either new in land and groundwater management, or for key stakeholders who are not technical experts in that area (e.g. many site owners, the financial community and insurers). In a nutshell, the information does not exist in a way that can be easily harvested by the full community. This structured comprehensive European gateway is a big step forward and an example of environmental research and business communities throughout Europe.

Land and groundwater management requires an interdisciplinary approach and a considerable amount of supporting technical information and knowledge. EUGRIS is free and provides a generally available comprehensive and overarching information and innovation resource, to support both research and practical contaminated land and groundwater management. The EUGRIS gateway is a "one stop shop" for information provided by research projects, legislation, standards, best practice and other technical guidance and policy/regulatory publications from the European Commission, participating member and accession states and from various international networks dealing with land and groundwater management issues. It aimed at the specific user requirements of the research community, professionals, problem owners and public authorities. The user-friendly navigation allows target-oriented access to information according to different users needs. EUGRIS offers summary information and links to sources of more detailed information in a scaleable holistic and contextually meaningful way.

## Users' perspective

The open dissemination concept of EUGRIS integrates two functionalities:

First, **visitors can find information** on land and water management from searches and topic listings, it is then possible to see links to related data. For example, a research projects



listing provides links to research projects outputs. It is this ability which is the key to EUGRIS and is distinct advantage over conventional search engines which only allow a "dumb" listing of web pages without suggesting links to related data. Furthermore, it is also possible to see other relationships such as details about the person who posted the data. This useful indication of data quality is another facility that is lacking in conventional search engine listings.

Second, EUGRIS **visitors can disseminate their own information**. Any registered user can submit information in all parts of the gateway simply using a web browser, e.g. news, training courses, conferences, library documents, web links, who does what directory entries for persons and organisations, research project, research output and funding programme information can be directly submitted online in minutes. This added value is a major element of EUGRIS sustainability concept.

### Current status

The gateway combines a technical, policy and research compendium, a search engine and a dissemination tool in one central place. It enables a continuous retrieval and further development of web based services, not only for land and groundwater management, but may also be extended to other sectors in environmental policy and management, like the soil thematic strategy issues. The developed EUGRIS tools improve the efficiency of national and European funding and investment programmes in land and groundwater management by resuming open research questions and synergy effects from different research outputs. Last but not least, the new member and accession states benefit from this available information e.g. project and research results and best practices.

EUGRIS is an open and interactive system. Its modular structure allows a quick integration of further technical content and new country pages. EUGRIS poses a nucleus extendable to a comprehensive European land and water management system. The focus of the EUGRIS project was the system development rather than providing a full content compilation. However, the work to prepare the content was underestimated.

### Future of EUGRIS

EUGRIS offers free accessible information with no costs for the user which is very much in line with the European and national environmental information policy. The funding period of EUGRIS ended at the end of October 2005. The continuation of EUGRIS depends on further financial resources and investments, although the project team are maintaining it on an interim basis at their own expense. A management plan has been compiled that discusses the long-term sustainability of EUGRIS in the economic sense. It surveys the operation and maintenance costs as well as the conditions for the system's further development. The EUGRIS team is looking for funding at least for the operational costs to maintain the system. However, the survival also depends on a development of a commercial part within EUGRIS. It is planned to develop extra services with costs, like tools and products, and to found a EUGRIS company.

A key aim of EUGRIS is the free provision of publicly funded information to web site visitors. This aim reflects the origins of EUGRIS as a publicly funded Accompanying Measure for the European Commissions Directorate Generale for Research, and the wide ranging support this project received from other public bodies. Ultimately EUGRIS will need to become financially self-supporting in order to be sustainable; however, its developers intend that the provision of free publicly funded information will be a long term guiding principle, subsidised by (for example):



- “paid for “ enhanced services for users such as enhanced listings for projects, organisations and resources; enhanced user search tools, R&D project hosting services
- support from national agencies for “country pages”
- and possibly fees to other Public Sector information providers for dissemination.

In the long term (from 2010) EUGRIS is seen as being able to be self supporting, providing that support continues during the critical early stages, in particular for further content and system development in furtherance of Framework 6 and 7 programme objectives.

Further development needs include:

- widening soil and water information content
- multi-lingual capabilities
- further country pages / national interface pages
- off site search and information linkage targeted to soil and water
- new information e-mail alerts for registered users
- project hosting solutions and / or advanced listing services for the better promotion of new projects and initiatives (e.g. Common Forum), newly funded European projects,
- support for e-working by pan-European teams
- support for e-learning and conferencing
- provision of support to Mediterranean Dialogue Countries and Newly Independent States

The EUGRIS team aim to submit new proposals in relevant calls in the Framework 6 and 7 Programmes of the European Commission, and to approach national agencies about the provision of new country pages and ongoing support of existing pages.



## 2 Description of the EUGRIS system

### 2.1 Scope of EUGRIS

The scope of the system takes into account the diversity of the target groups, ranging from research professionals and public managers to laymen, providing the premises for the level of sophistication in terms of technical language and the level of complexity in terms of content. The system should have a room and answers for most visitors, with a wide range of educational levels and motivation for entering the gateway.

The content contained by the system is divided up in eight main topics, which are:

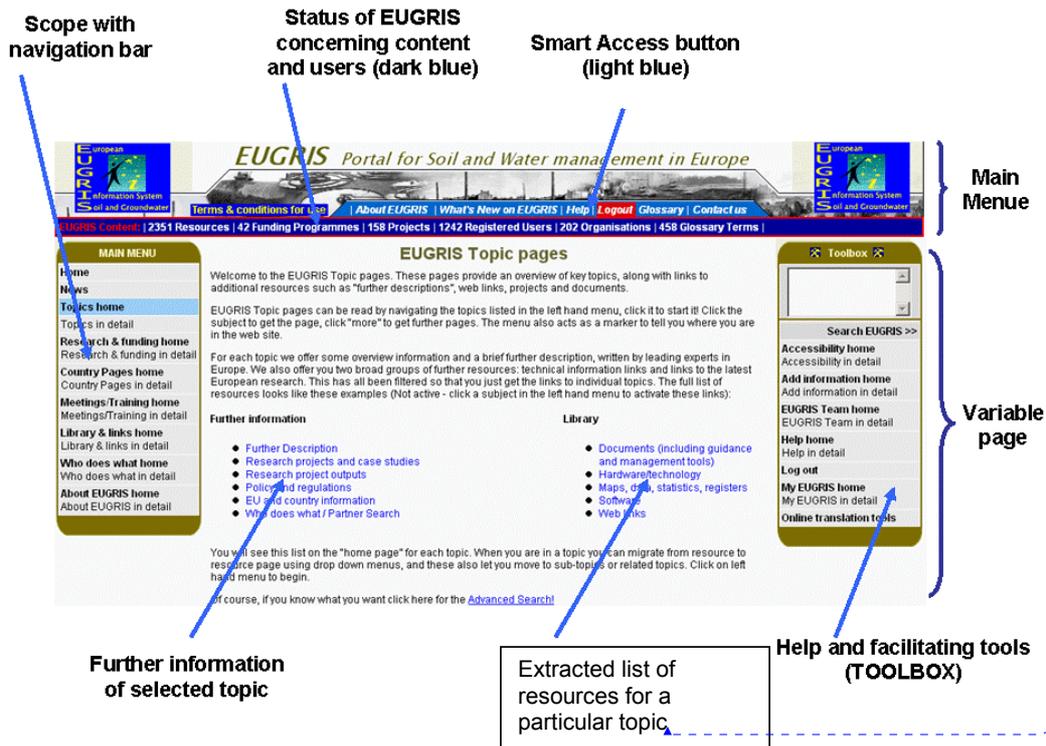
- Brownfields
- Contaminated land
- Diffuse pollution
- Groundwater protection
- Integrated water resources management
- Sediments
- Soil
- Water and sanitation

These topics are then subdivided into a number of sub topics, the number of which is dependent on the complexity of the area. This thematic matrix is used as sub-menu in the “technical information”-, “country information”-, “research information”-, “library”- and “Who does what”-section of the portal. Until now, EUGRIS has full information on contaminated land, diffuse pollution and groundwater protection as well as a homepage for brownfields.

The scope of EUGRIS was originally meant to comprise only topics strictly related to contaminated land and groundwater protection. However, to ensure long term sustainability, it was decided within the EUGRIS team to design the system to allow for future expansion of the system to include other topics related to the whole range of topics included in the 6<sup>th</sup> Framework programme, i.e. water resources management issues and soil issues such as erosion. Given its limited project financial and personnel resources, the EUGRIS team could not populate all added components in the original project, but has created a modular framework and capacity for future information posting at a later stage by other experts, linked projects, and new proposals from the EUGRIS team.

## 2.2 Structure of EUGRIS

The system design comprises a number of functionalities, entries and views, arranged in a fixed main menu at the top and a variable page below. (see diagram change below)

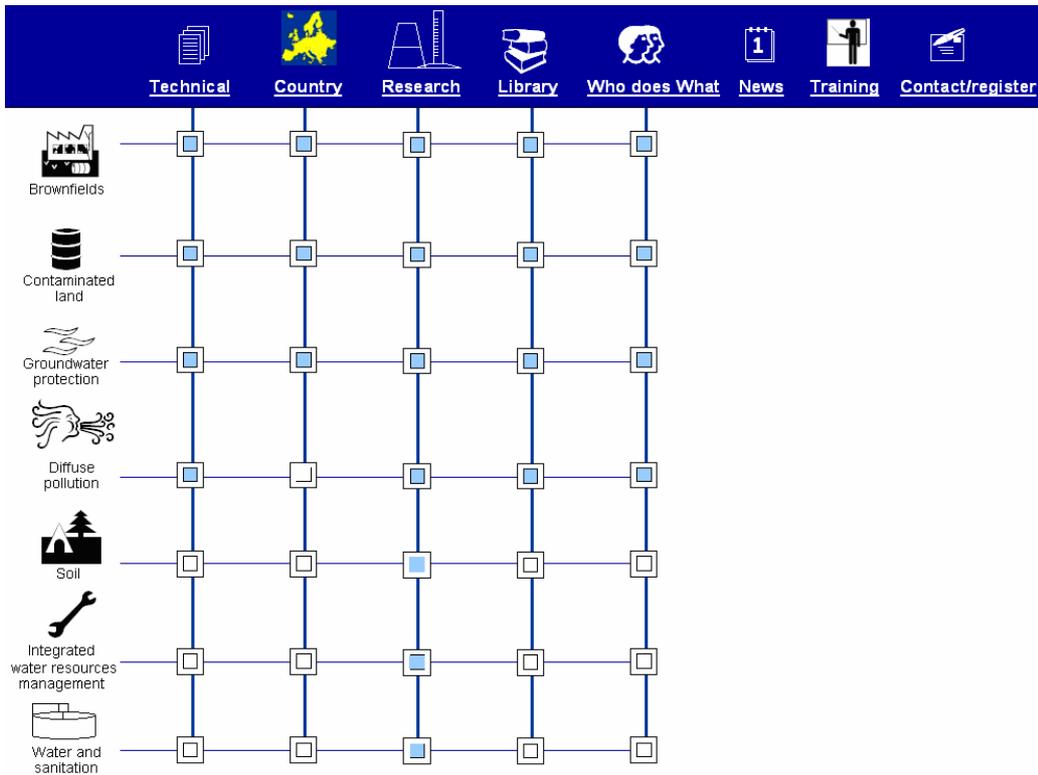


<b>Fixed main menu</b>	
Terms and conditions	Terms and conditions of web site use
<b>Light blue bar: Smart Access buttons</b>	Help users and facilitate the system's use
About EUGRIS	EUGRIS project information
What's New on EUGRIS	Quick finding of new postings
Help	Help files with user guidance
Login/Logout status	shows the current user status
Glossary	Explains abbreviations, technical terms, web site terms used in the EUGRIS web site.
Contact us	Tool to get in contact with webmaster and EUGRIS Team
<b>left box- Navigator "Main Menu"</b>	Entry points to EUGRIS main sections
Topics	Technical information
Research & Funding	Research information and related funding programmes
Country	Country specific information
Meetings/Training	Information on Conferences and training courses
Library/Links	Search tool for resources across the site's contents
Who does what	User directory for individuals and organisations
About EUGRIS	Bulletin board
<b>Variable page</b>	Part of page that changes when main section has been selected
<b>Sub-menus of selected main section</b>	All main sections have an additional sub-menu on the left side for structured browsing. Here mainly the thematic matrix of the scope is used for navigation.



<b>Further information</b>	Links to further information related to the selected page/topic: more detailed information offers the "further description". Additionally, inter-linkages to related research, country and technical information are listed.
<b>Library extract</b>	Sub-library of the overall EUGRIS library, only offering resources related to the selected page/topic.

All main sections have an additional sub-menu (e.g. Topics in detail) on the left side for structured browsing. For "technical information", "country information", "research information", the "library" and the "who does what directory" the thematic matrix of the scope is used as sub-menu. The recurring scope for navigation facilitates the use of EUGRIS, because the visitor has to learn it only once.



Note: In the diagram, the blue filled boxes indicate where EUGRIS has already information loaded; the blank ones where EUGRIS is ready to upload information in future.

EUGRIS pages are generated dynamically from a series of database tables. At the heart of the system is the ability to interlink, list and search information. This is the advantage of EUGRIS over search engines like "Google" or "Yahoo"; it is a portal that adds value by (a) being a reference site, and (b) allows the user to see the interconnections between the different types of information that have been posted.

## 2.3 Technical information of EUGRIS



### Technical information



The Topic pages outline technical information for, contaminated land, diffuse pollution groundwater protection and brownfields on over 80 sub-topics written by European experts. These pages provide an overview of key topics, along with links to additional resources such as “further descriptions”, web links, projects and documents. The pages have a three level navigation structure starting with general information and going deeper into more detailed information. Available topics of technical information:



### Contaminated land

Content provided by EUGRIS and external experts

Overview Page		
Contaminants	Overview BTEX PAH MTBE	Heavy metals Nitroaromatics Chlorinated aliphatics Others
Cost benefit analysis	Overview Financial risk assessment	Tools
Information management systems	Overview Data storage	Predictive modelling GIS
Mega-sites	Overview	
Remediation options	Overview Excavation Containment Ex situ technologies	In situ technologies MNA Permeable reactive barriers Recycling/reuse
Risk assessment	Overview Sources Receptor: Human health Receptor: Ecological Receptor: Buildings Receptor: Water	Toxicological information Exposure pathways Models Tools and procedures Risk benefit analysis
Risk management	Overview Strategies Selection remediation opt.	Verification Monitoring and aftercare
Site investigation	Overview Site conceptual model Initial studies Sampling and analysis Methods	Reporting Site description Information sources Sampling strategy
Soil and groundwater processes	Overview Contaminant hydrology Microbiology Geochemistry	Hydrogeology Ecotoxicology Modelling
Wider impacts / sustainability	Overview Economic Environmental	Social Assessment tools

**Brownfields***Content provided by the FP5 project CABERNET*[Overview Page](#)**Groundwater protection***Content provided by EUGRIS and external experts*[Overview Page](#)[Groundwater processes](#)[Overview](#)  
[Contaminant hydrology](#)  
[Microbiology](#)[Geochemistry](#)  
[Hydrogeology](#)  
[Ecotoxicology](#)[Monitoring](#)[Overview](#)  
[Sampling techniques](#)[Early warning systems](#)  
[Hardware](#)[Planning](#)[Overview](#)  
[Protective areas](#)  
[Land use measures](#)[Reservoir mapping](#)  
[Modelling](#)**Diffuse pollution***Content provided by the FP5 project SOWA*[Overview Page](#)[Contaminants](#)[Emerging pollutants](#)[POPs](#)[Monitoring](#)[Processes](#)[Regulation](#)[Scales](#)[Sources](#)

For each of the above listed topics EUGRIS provides “further information” and a structured topic-related library (a query of the overall EUGRIS library). Further information for each topic are:

**Further information****Further information**

[Further Description](#)  
[Research projects and case studies](#)  
[Research project outputs](#)  
[Policy and regulations](#)  
[EU and country information](#)  
[Who does what / Partner Search](#)

Further description

2-4 pages document explaining the selected topic, serving an educational purpose for students, citizens or people new to land and water management

Research projects and case studies

Lists research projects for selected topic (inter-linkage to project database)

Research projects outputs

Lists outputs from projects for selected topic (inter-linkage to resources database)

Policy and regulations

Lists policy and regulations for selected topic per country (Inter-linkage to country detailed pages)

EU and country information

Lists country information for selected topic per country



(Inter-linkage to country detailed pages)

Who does what / Partner search

Lists people with interest/experience for selected topic  
(Inter-linkage to the Who does what directory)



## EU and Country information

### Country Pages

Welcome to the EUGRIS country pages. These pages provide an overview of key topics from the perspective of the EC, and from individual Member States, along with links to additional resources such as "further descriptions", web links, projects and documents.

EUGRIS Topic pages can be read by navigating the topics listed in the left hand menu, click it to start it! Click the subject to get the page, click "more" to get further pages. The menu also acts as a marker to tell you where you are in the web site.

We offer a series of country overviews covering general national approaches and information. We also offer for each country a deeper level of information arranged, as far as possible, by the technical topic. So far we have country pages for Denmark, France, Germany, Hungary, the United Kingdom and the European Union.

On each country page we offer a series of pages for different topics, including an overview of the situation in the country concerned and links to national resources like these examples (Not active - click a subject in the left hand menu to activate these links):

- |   |  |  |
|---|--|--|
| <ul style="list-style-type: none"> <li>• <b>Overviews</b></li> <li>• Management / administration</li> <li>• Maps</li> <li>• Statistics and related</li> <li>• Policy and regulatory</li> <li>• Funding</li> </ul> | <p><b>Detailed information</b></p> <ul style="list-style-type: none"> <li>• Further description</li> <li>• Policy and regulations</li> <li>• Research funding</li> <li>• Research projects and case studies</li> <li>• Technical information and general resources on this topic</li> <li>• Projects and case studies</li> <li>• Who Does What Directory / Partner Search</li> </ul> | <p><b>Library (all related resources) - Country information</b></p> <ul style="list-style-type: none"> <li>• Documents (including guidance and management tools)</li> <li>• Hardware/technology</li> <li>• Maps, data, statistics, registers</li> <li>• Software</li> <li>• Web links</li> </ul> |
|---|--|--|

The COUNTRY pages are an entry point for country-specific information. The **country overview** pages provide access to all national related information in the system (policy and regulation, administration, management of land and groundwater, maps, statistics and related, funding and a country library). The **country detailed** pages present the national focus of the main technical topics in EUGRIS. So far, EUGRIS has country pages for Denmark, France, Germany, Hungary, Italy, the UK and on the European level.

## Overview pages

European Union  
Denmark  
France  
Germany  
Hungary  
Italy  
United Kingdom

Button "more>>" opens detailed pages

Same information categories used for all countries:

- Management / administration
- Maps
- Statistics and related
- Policy and regulatory
- Funding
  
- Country library (query of the overall library)

## Detailed pages

*Content in preparation*



Brownfields



Contaminated land

Contaminants  
Cost benefit analysis  
Information management systems  
Mega-sites  
Remediation options  
Risk assessment  
Risk management  
Site investigation  
Soil and groundwater processes  
Wider impacts/sustainability



Groundwater protection

Groundwater processes  
Monitoring  
Planning

Same information categories used for all topics:

- Further description including: General approach, Policy and Regulations, Funding, Management tools and guidance
- Policy and regulations
- Research funding
- Research projects and case studies
- Technical information and general resources on this topic
- Projects and case studies
- Who Does What Directory / Partner Search
  
- Topic country library (query of the overall library)



## Research information

### EUGRIS research pages

Welcome to the EUGRIS research pages. These pages provide a comprehensive listing of research information across the European Union. You can search this information: [Search for / list projects](#), [Partner search](#)

You can also review research findings that have been compiled by the University of Tuebingen and other experts, based on an extensive review of current and past projects. You can read these findings by technical topic using the left hand menu. For each topic you will find a list of related projects and project outputs.

You may also submit project information to the EUGRIS system.

[Search/list projects](#)  
[Partner search](#)  
[Submit project](#)

On each research topic page, as well as critical review of research findings and issues, we offer links to more detailed resources like these examples (Not active - click a subject in the left hand menu to activate these links):

#### Further information

- [Research overview](#)
- [Research funding](#)
- [Research projects \(search tool\)](#)
- [Research project outputs \(search tool\)](#)
- [Technical information and general resources on this topic](#)
- [Country information on this topic](#)
- [Who Does What / Partner Search](#)

#### Library (all related resources) - Research Outputs

- [Documents \(reports, articles etc\)](#)
- [Hardware/technology](#)
- [Maps, data, statistics, registers](#)
- [Software](#)
- [Web links](#)

You will see this list on the "home page" for each topic. When you are in a topic you can migrate from resource to resource page using drop down menus, and these also let you move to sub-topics or related topics. Click on the left hand menu to begin

Of course, if you know what you want click here for the [Advanced Search!](#)

The RESEARCH pages link to database tables containing current and past research projects across Europe, their available outputs and research funding programmes. A partner search tool is also available. The scope of the research pages encompasses the highest level topics of the EUGRIS scope:

## Research pages



Brownfields



Contaminated land



Diffuse pollution



Groundwater protection



Integrated water resources management



Sediments



Soil



Water and sanitation

Same information categories used for all topics:

- [Research overview](#) describing state of the art and research gaps
- [Research funding](#)
- [Research projects \(search tool\)](#)
- [Research project outputs \(search tool\)](#)
- [Technical information and general resources on this topic](#)
- [Country information on this topic](#)
- [Who Does What / Partner Search](#)
- [Research library \(query of the overall library\)](#)



## 2.4 Service information of EUGRIS



### Library

**EUGRIS library and links**

Welcome to the EUGRIS library and links home page.

The library and links contains a listing of all of the EUGRIS resources which you can search in a number of ways, for example:

- Technical subject
- Type of information link (web links, documents, EUGRIS text etc)
- Date
- Country
- or combinations.

You can also choose to display the information returned in different ways.

This is the short-cut route for people who know what they want and are in a hurry to get it.

Click here to use the [advanced search](#).

You have some more options in the left hand menu.

Click here to [add a new resource](#).

LIBRARY & LINKS provide a quick means of finding any of the about 2300 plus resources in the system such as documents, maps, statistics, hardware, software and web links. Focussed queries of the library database are accessible through the technical content, country and research pages.



### Who does what directory

**Who does what directory**

Welcome to the EUGRIS Who does what directory.

The Who does what directory is a place where you can tell the world about your expertise and interests, and where people searching for similar skills and interests can find you. It also adds so that users of EUGRIS can see who has submitted information and contact, as EUGRIS does not accept anonymous postings. A comprehensive WDW entry supports EUGRIS users' confidence in any information that you have posted to EUGRIS.

Your WDW Directory entry also lists cases where other postings you have made onto EUGRIS and so acts as a short-cut to any information that you have posted.

You can edit your personal entry at any time while you are logged on. You can also add an entry for your organisation. Members of staff can associate their entries with an organisation entry.

The basic personal and organisation listings are FREE!

Take a look at the "Who does what directory" You have some more options in the left hand menu.

[View Who does what directory \(People\) A to Z](#)

[View it \(beta\) Who does what directory \(Organisations\) A to Z](#)

[Click here to display your WDW entry](#)

[Ask EUGRIS who does what entry](#)

[Add EUGRIS your logo](#)

The WHO DOES WHAT DIRECTORY is a user-driven listing of relevant **organisations** and European experts (**persons**) in land and water management. The directory not only serves the needs of the web site - it is an opportunity to promote oneself as well, and a good way for people to find partners and services (for example making European project teams).

## Who does what directory

Organisations  
Persons

Listed alphabetically per country

Listed alphabetically per country and topic

**Who does what? Contaminated land**

Argentina	<a href="#">Add/Edit your Who does what entry</a>
Ms Victoria R Oro Hijo (MCO)	<a href="mailto:mvic@com.mediam.com.ar">mvic@com.mediam.com.ar</a> <a href="http://www.com.mediam.com.ar">http://www.com.mediam.com.ar</a>
Australia	<a href="#">Full Details</a>
Wipac Services (Rusland)	<a href="mailto:saw@wipac.com.au">saw@wipac.com.au</a>
Australia	<a href="#">Full Details</a>
Water Australia (WA)	<a href="mailto:water.australia@waterforpeople.com.au">water.australia@waterforpeople.com.au</a>
Australia	<a href="#">Full Details</a>
Dr Peter Hargreaves (Independent Consultant)	<a href="mailto:peter.hargreaves@bt.com.au">peter.hargreaves@bt.com.au</a>
Australia	<a href="#">Full Details</a>
Ms. Verónica Prieto (University Researcher)	<a href="mailto:veronica.prieto@univbuenosaires.edu.ar">veronica.prieto@univbuenosaires.edu.ar</a> <a href="http://www.univbuenosaires.edu.ar">http://www.univbuenosaires.edu.ar</a>
Australia	<a href="#">Full Details</a>

**Who does what (Organisations)? Contaminated land**

Belgium	<a href="#">Add an Organisation to the Directory</a>
Yvo	<a href="mailto:yvo@yvo.be">yvo@yvo.be</a>
France	<a href="http://www.yvo.be">http://www.yvo.be</a>
France	<a href="#">Full Details</a>
Association Française de Normalisation (Fédération Française des Associations de Normalisation)	<a href="mailto:association@afnor.fr">association@afnor.fr</a> <a href="http://www.afnor.fr">http://www.afnor.fr</a>
France	<a href="#">Full Details</a>
Association Pour l'Environnement et la Sécurité en Aquitaine	<a href="mailto:aspa@aquitaine.fr">aspa@aquitaine.fr</a>
France	<a href="#">Full Details</a>
Association pour une Terre Saine (Association for a Sustainable Earth)	<a href="mailto:association@ats-europe.org">association@ats-europe.org</a>
France	<a href="#">Full Details</a>
CEMATEC - Agricultural Environmental Engineering Research	<a href="mailto:ceimatec@ceimatec.com">ceimatec@ceimatec.com</a> <a href="http://www.ceimatec.com">http://www.ceimatec.com</a>
France	<a href="#">Full Details</a>



## Training

The TRAINING pages provide a comprehensive listing of conferences, short courses and course leading to formal qualification across the European Union and beyond. Information can be searched by list courses, conferences and qualifications.



## News

Users get access to the NEWSBOARD via the Main Menu Box. Information can be read and searched here and News can be published by using the TOOLBOX.



## Contact and register

First page for each user offers among rules and objectives of EUGRIS the register procedure. Please note that only registered users will get the full range of information and functionality. In general EUGRIS is an open system but anonymous information input cannot be accepted.

The welcome page is a user interface to register, to log in, to explore the structure of the information system, to post in new information and to deeper into the system.



## 2.5 Quality assurance

A concern about an open system is its moderation, i.e. how to deal with poor content being posted. The EUGRIS quality approach is set out below.

1. NO anonymous information can be posted - all information posted is linked to the directory entry for the person who submitted it. This directory entry (collected during registration) provides a “CV” for that member of the EUGRIS community, and also lists their other postings on the web site. This information allows users to judge the provenance of the information offered. The directory entry also provides a link to a nominated web site and the option for contact via a messaging service.
2. Access to a comments and ratings system allowing users to comment on and rate individual submissions to the web site. No anonymous comments will be permitted. The comments system allows users to remark on the usefulness of posted information.
3. Clear indications of the type of a document: e.g. whether it is guidance, a research report etc – users can filter or sort search results for documents of a particular type
4. Clear indications of the producers of a document, e.g. whether they are from a government agency of some kind, a University, a service provider etc – users can filter or sort search results for producers of a particular type.
5. Resources and projects can be shown as “approved” by a particular body, if they are working with EUGRIS – e.g. in the case of WasteInfo, links can be shown as approved of by RRF. This allows users to freely add information, but for inexperienced users to quickly identify information that has somehow been assessed for relevance and quality.
6. As a final option it is possible to contact the EUGRIS team to request removal of postings.
7. There is also software in EUGRIS to monitor quality assurance by highlighting possible duplicate postings of resources
8. Establishment of clear obligations and liabilities in the EUGRIS terms and conditions.

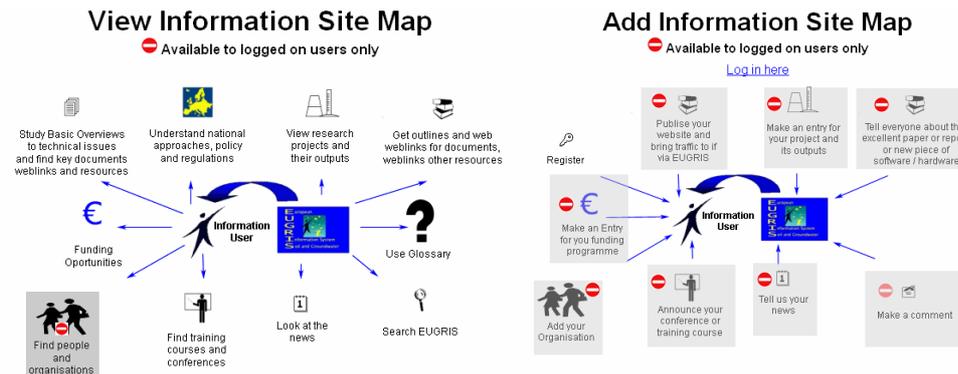
All postings have been monitored by the EUGRIS team. So far there have been no major problems with the quality of the information posted. (There have been problems where on the system is the most appropriate place to post information, but this is a more minor issue).

If there were any problems concerning the quality of information that were not picked up by the EUGRIS team then these could be easily commented on by any user. So far there have been no complaints about the quality of EUGRIS information. Users have responded well the EUGRIS *ethos*. Postings from outside the EUGRIS team have been useful and informative.

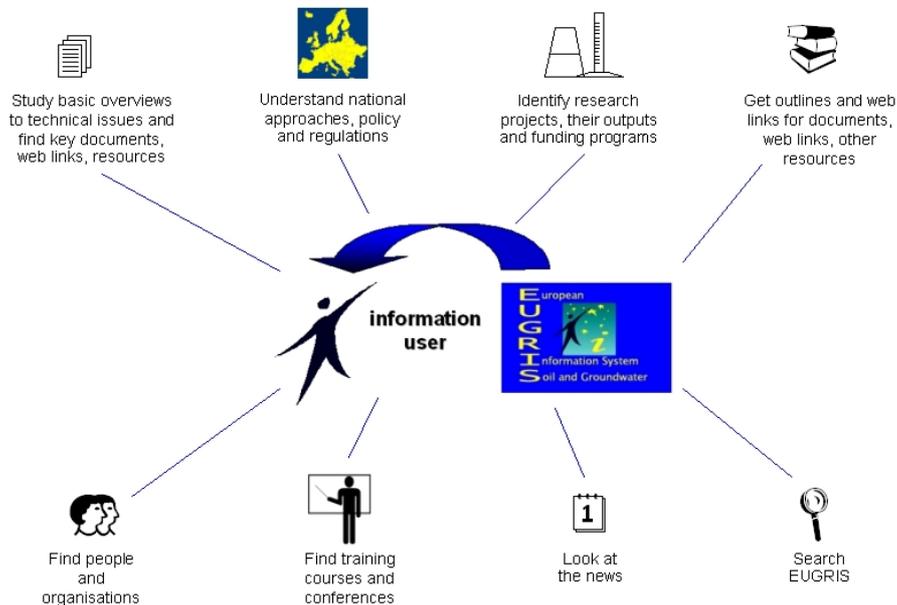
### 3 EUGRIS User guidance

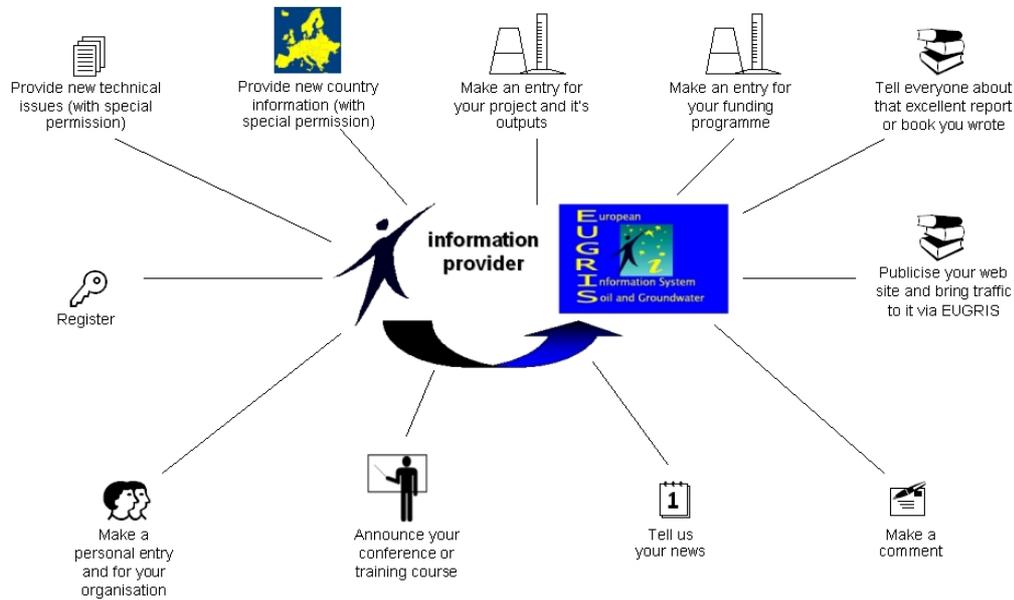
EUGRIS as an open dissemination tool sees the visitor as information user as well as an information provider. What you can do yourself on EUGRIS is illustrated in the following figures.

For unregistered users:



Any registered user with a personal “Who does what” entry can post information into the system, from a news article to a reference or technical paper for free. A guidance of every user interface is described in the user guidance sheets (see Annex 6.3).





## 4 Technical description of EUGRIS

### 4.1 Structure of the system

The basic structure of the system is shown in the table below. It consists of different types of information intelligently organised in the system and stored in databases, a toolbox, which enables easy and transparent use and navigation of the system, and various functionalities that enable information exchange.

Information 	Tool box 	Information exchange 
<b>Issues</b> Contaminated land Groundwater protection Landfills/waste dumps	<b>Accessibility</b> Make fonts bigger	??
<b>Scope</b> Site characterisation Investigation Behaviour and fate of contaminants Risk management and communication Remedial technologies and strategies Monitoring and efficiency control Decision making Sustainability aspects Socio-economic aspects	Help Add information to EUGRIS Contact us Join EUGRIS  Change your User Account details	<b>NEWS</b> News/ EU research projects – latest info Conference and training New funding information



<b>Resources</b> Guidance and regulation Technical books and reports Standards EU and national projects Research and case studies Decision support tools Networks and events Discussion groups Education and training	Internal search functions Site map and library	<b>Resources</b> Post resources to EUGRIS See Research Project outputs See Authors Resource listings
<b>Country</b> EDU overall Pilot countries Pilot accession country	<b>Communication tools</b> See next column	Country, Networks, and Concerted Actions Zone

Thus, the system is constructed of three layers, a **user interface**, which offers an entry, that enables the user to get a quick overview of the options of the gateway, a **business layer**, which is the engine, which contains tools for navigating, cross linking, and other functionalities and operational features, and a **storage layer** of information stored in databases.

#### 4.2 Development Philosophy and Approach

The development philosophy for the EUGRIS website was *keep it simple*. It was therefore decided to use the well known database packages, *MS Access* and *MS SQL Server*, for the EUGRIS database and to use the equally well known technology of *Active Server Pages* (ASP) for the web front end. The whole web site is run on *MS Internet Information Server*.

The EUGRIS database and web front end were developed using a RAD approach (Rapid Application Development). This involves developing small amounts of the system and putting them on line for testing and evaluation by the EUGRIS team rather than specifying the whole system, programming it and then evaluating it. This approach allowed the EUGRIS development team to get a good idea of the system and to make any changes while it was being developed, and was vital to the success of a complex project like EUGRIS. Many "wrong turns" in the system design and programming implementation were picked up at an early stage and rectified. In addition, many new ideas were able to be easily incorporated during the development process.

#### 4.3 Database Implementation

The prototype EUGRIS Database was developed using Microsoft Access. This prototype database has now largely migrated to MS SQL Server. MS SQL Server is Microsoft's enterprise database solution and allows EUGRIS to greatly expand in terms of content and traffic.

#### 4.4 Tables

There are currently 106 tables used in the EUGRIS system, the ten main tables are shown below.

  	<i>Funding</i>
	<i>Glossary</i>
	<i>Keywords</i>
	<i>Navigation</i>
	<i>News</i>
	<i>Organisations</i>
	<i>Projects</i>
	<i>Resources</i>
	<i>Training and conferences</i>
	<i>Users</i>

Other tables are used for utility purposes such as , “joining tables” and tables listing keywords and drop down menus.

The system uses a range of scripts, some of which operate in the user’s browser to create interactive features such as menus and forms these are implemented in *JavaScript*, and others which reside solely on the server which generate content for pages from databases these are implemented using *ASP*.

#### 4.5 Coding

The EUGRIS system currently has about 30,000 lines of code. In keeping with the EUGRIS development philosophy of *keep it simple*, well known, high level languages have been used, *Visual Basic Script* and *SQL* for the server side software (such as database querying), and *JavaScript* with html for the client side software (such as navigation). The advantage of using these languages is that there is a wealth of expertise and experience available. *Visual basic*, for example, is reported to be the world’s most popular programming language. This will mean that in the future it will always be possible to find development staff to work on the EUGRIS system.

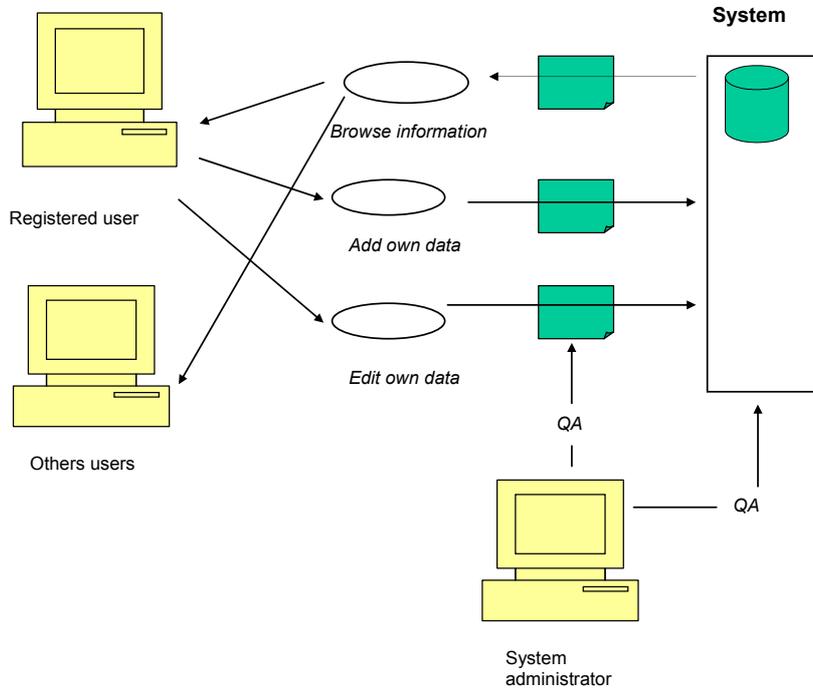
#### 4.6 Hosting

As EUGRIS is using well-known and popular technology it has been easy to find cheap commercial hosting for the website. EUGRIS is currently hosted by the UK company *Fasthosts*, which makes claim to being Europe’s largest web hosting company.

The EUGRIS web front end is co-hosted on three balanced servers running *Windows 2003* Server, with the EUGRIS database on a fourth server running *MS SQL Server*.

#### 4.7 User interaction

Only users who are registered can upload information in the system. However, most information posted can be *read* any users whether or not they are registered on the system. The system has been developed to allow easy and transparent navigation to the searched information. User interaction with EUGRIS is illustrated below.





## 5 The founders of EUGRIS

- Federal Environmental Agency, Berlin, Germany [Co-ordination]  
Jörg Frauenstein, Maike Hauschild, Volker Franzius  
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Martin Bittens, Stefan Gödecke  
Mail: martin.bittens@ufz.de
- r3 Environmental Technology Limited, Reading, UK  
Paul Bardos, Anthony Bardos  
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- Deloitte & Touche, Copenhagen, Denmark  
Bjørn Jensen  
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Further Information available under  
<http://www.eugris.info>

## 6 Annexes

### 6.1 Available technical further descriptions

Further descriptions are available for the following topics in the **technical content pages** written by European experts (status by 28 October 2005):



#### Contaminated land

*Content provided by EUGRIS and external experts*

Overview Page		<i>Available</i>
Contaminants	Overview	<i>Available</i>
	BTEX	<i>Available</i>
	PAH	<i>Available</i>
	MTBE	<i>partly finished</i>
	Heavy metals	<i>partly finished</i>
	Nitroaromatics	<i>partly finished</i>
	Chlorinated aliphatics	<i>Available</i>
	Others	<i>partly finished</i>
Cost benefit analysis	Overview	<i>Available</i>
	Financial risk assessment	<i>Available</i>
	Tools	<i>Available</i>
Information management systems	Overview	<i>partly finished</i>
	Data storage	<i>partly finished</i>
	Predictive modelling	<i>Available</i>
	GIS	<i>Available</i>
Mega-sites	Overview	<i>Available</i>
Remediation options	Overview	<i>Available</i>
	Excavation	<i>partly finished</i>
	Passive & hydr. Containment	<i>Available</i>
	Ex situ technologies	<i>Available</i>
	In situ technologies	<i>Available</i>
	MNA	<i>Available</i>
	Permeable reactive barriers	<i>Available</i>
	Recycling/reuse	<i>Available</i>
Risk assessment	Overview	<i>Available</i>
	Sources	<i>Available</i>
	Receptor: Human health	<i>Available</i>
	Receptor: Ecological	<i>Available</i>
	Receptor: Buildings	<i>Available</i>
	Receptor: Water	<i>Available</i>
	Toxicological information	<i>Available</i>
	Exposure pathways	<i>Available</i>
	Models	<i>Available</i>
	Tools and procedures	<i>Available</i>
	Risk benefit analysis	<i>In preparation</i>
Risk management	Overview	<i>Available</i>
	Strategies	<i>Available</i>
	Selection remediation options	<i>Available</i>
	Verification	<i>partly finished</i>
	Monitoring and aftercare	<i>Available</i>
Site investigation	Overview	<i>Available</i>
	Site conceptual model	<i>Available</i>
	Initial studies	<i>Available</i>
	Sampling and analysis	<i>Available</i>
	Methods	<i>Available</i>
	Reporting	<i>Available</i>
	Site description	<i>Available</i>
	Information sources	<i>Available</i>
	Sampling strategy	<i>Available</i>



Soil and groundwater processes	Overview	<i>Available</i>
	Contaminant hydrology	<i>Available</i>
	Microbiology	<i>Available</i>
	Geochemistry	<i>partly finished</i>
	Hydrogeology	<i>Available</i>
	Ecotoxicology	<i>Available</i>
	Modelling	<i>Available</i>
Wider impacts / sustainability	Overview	<i>Available</i>
	Economic	<i>Available</i>
	Environmental	<i>Available</i>
	Social	<i>Available</i>
	Assessment tools	<i>Available</i>

**Brownfields***Content provided by the FP5 project CABERNET*

Overview Page

*Available***Groundwater protection***Content provided by EUGRIS and external experts*

Overview Page

*partly finished*

Groundwater processes

Overview

*In preparation*

Contaminant hydrology

*Available*

Microbiology

*In preparation*

Geochemistry

*Available*

Hydrogeology

*Available*

Ecotoxicology

*Available*

Monitoring

Overview

*Available*

Sampling techniques

*Available*

Early warning systems

*partly finished*

Hardware

*partly finished*

Planning

Overview

*Available*

Protective areas

*partly finished*

Land use measures

*partly finished*

Reservoir mapping

*partly finished*

Modelling

*partly finished***Diffuse pollution***Content provided by the FP5 project SOWA*

Overview Page

*Available*

Contaminants

Emerging pollutants

*Available*

POPs

*Available*

Monitoring

*Available*

Processes

*Available*

Regulation

*Available*

Scales

*Available*

Sources

*Available*



## 6.2 Available research projects

Among 165 research projects included in EUGRIS the following European funded projects and their outputs are listed by status from 28 October 2005. If your project is missing from the list, please feel free to submit it to EUGRIS.

Project acronym	Project name
1 ABACUS	Evaluation of availability to biota for organic compounds ubiquitous in soils and sediments
2 ACE	Analysing combination effects of mixtures of estrogenic chemicals in marine and freshwater organisms
3 AFFOREST	Afforestation management in north-western Europe - influence on nitrogen leaching, groundwater recharge, and carbon sequestration
4 AGRIBMPWATER	Systems approach to environmentally acceptable farming
5 AISUWRS	Assessing and Improving Sustainability of Urban Water Resources and Systems
6 AQEM	Development and Testing of an Integrated Assessment System for the Ecological Quality of Streams and Rivers Throughout Europe Using Benthic Macroinvertebrates
7 AQUA-STEW	Water quality surveillance techniques for early warning by interface sensors
8 AWACSS	Automated Water Analyser Computer Supported System
9 BASELINE	Natural Baseline Quality in European Aquifers: A Basis for Aquifer Management
10 BEAM	Bridging effect assessment of mixtures to ecosystem situations and regulation
11 BIOFILMS	Natural biofilms as high-tech conditioners for drinkingwater
12 BIOTECTOR+	Improved Pollution Monitoring & Control through the Development of an Innovative Integrated Multi-Component Continuous on-line Analyser
13 BIOTOOL	Biological procedures for diagnosing the status and predicting evolution of polluted environ.
14 BUFFER	Key nutrient transport mechanisms important for the prediction of nutrient and Phytoplankton concentrations in European standing waters
15 CABERNET	Concerted Action on Brownfield and Economic Regeneration Network
16 CEEAM	Centre of Excellence in Environmental Analysis and Monitoring
17 CEMBA	CE based instrument using Microsystem and Biosensor technologies for bioremediation monitoring Applications
18 CEMERA	Centre of complex environmental monitoring and environmental risk assessment
19 CITYFISH	Modelling the Ecological Quality of Urban Rivers: Ecotoxicological Factors Limiting Restoration of Fish Populations
20 CityNet	The Network of European Research Projects on Integrated Urban Water Management
21 CLARINET	The Contaminated Land Rehabilitation Network For Environmental Technologies in Europe
22 COMET	Composition of dissolved organic matter and its interaction with metals and ultraviolet radiation in river-ocean systems: impact on the microbial food web
23 Common Forum	Commun Forum for Contaminated Land in the European Union
24 COMPRENDO	Comparative Research on Endocrine Disrupters - Phylogenetic Approach and Common Principles focussing on Androgenic/Antiandrogenic Compounds
25 CORONA	Confidence in forecasting of natural attenuation as a risk-based groundwater remediation strategy
26 DAUFIN	Data Assimilation within a Unifying Modeling Framework for Improved River Basin Water Resources Management
27 DESPRAL	An environmental soil test to determine the potential from Sediment and Phosphorus transfer in Run-off from Agricultural Land
28 DIMDESMOTOM	Development of Improved Detection Systems for Monitoring of Toxic Heavy Metals (THM) in Contaminated Groundwaters and Soils
29 ECOFRAME	Ecological quality and functioning of shallow lake ecosystems with respect to the needs of the European Water Framework Directive
30 EMERGE	European mountain lake ecosystems: regionalisation, diagnostics & socio-economic evaluation
31 ENVIRPHARMA	European Conference on human and veterinary pharmaceutical products in the aquatic environment: fate, effects and regulation: knowledge and future needs.
32 ERAVMIS	Environmental Risk Assessment of Veterinary Medicines in Slurry
33 ERMITE	Environmental regulation of mine waters in the European Union
34 EUGRIS	European Groundwater and Contaminated Land Remediation Information System
35 EURISKED	Multi-organic risk assessment of selected endocrine disrupters (ED's)
36 EUROLAKES	Integrated Water Resource management for Important Deep European lakes and their Catchment Areas
37 EUWARENESS	European Water Regimes and the Notion of a Sustainable Status
38 FAME	Development, Evaluation and Implementation of a Standardized Fish-based Assessment Method for the Ecological Status of European Rivers A Contribution to the Water Framework Directive
39 FIRMA	Freshwater Integrated Resource Management with Agents



40 FLOBAR 2	Floodplain Biodiversity and Restoration
41 GEOWATERS	Integrated Geophysical Techniques for Surveying and Quantifying Potentially Polluted sediments in European Waterways
42 GOUVERNE	Guidelines for the Organisation, Use and Validation of information systems for Evaluating aquifer Resources and Needs
43 GRACOS	Groundwater Risk Assessment at contaminated sites
44 IMAGE-TRAIN	Innovative Management of Groundwater Resources- Training Programme for EU Accession Countries
45 IMSIS	In Situ Monitoring of Landfill Related Contaminants in Soil and Water by Infrared Sensing
46 INCA	Integrated Nitrogen Model for European Catchments
47 INCORE	Integrated Concept for Groundwater Remediation
48 JOINT	Joint Technical Approach for Decontamination of Soil and Groundwater
49 LIBERATION	Development of a decision support system for sustainable management of contaminated land by linking bioavailability, ecological risk and ground water pollution of organic pollutants
50 LOWRGREP	Landscape-use Optimisation With Regards of the Groundwater Resources Protection in the mountain hardrock areas
51 Magnetic proxy	Magnetic proxy mapping of anthropogenic impacts on the low Danube sediments.
52 MAGPROX	Screening and monitoring of anthropogenic pollution over central Europe by using magnetic proxies.
53 MAGWAT	Magnetic Resonance Imaging System for Ground Water Investigations
54 MAROC	MOLECULAR TOOLS FOR ASSESSING THE BIOREMEDIATION POTENTIAL IN ORGANOHALOGEN-CONTAMINATED SITES
55 METAL-BIORDUCTION	Development of technologies using the activity of sulphate and metal reducing bacteria (SMRB) to remove heavy metals and metalloids from ground waters and soils
56 MICRORISK	Microbiological risk assessment: a scientific basis for managing drinking water safety from source to tap
57 NA-BW	NA-Implementation in the State of Baden-Wuerttemberg
58 NICOLE	Network for Industrially Contaminated Land In Europe
59 ORGONATE	On-site remediation of ground water contaminated by polar organic compounds using novel adsorption technology
60 PAEQANN	Predicting Aquatic Ecosystem Quality using Artificial Neural Networks: Impact of Environmental characteristics on the Structure of Aquatic Communities
61 PEBCAT	Photo-Electro-Bio-Catalytic Treatment of Drinking Water Supplies
62 PEGASE	Pesticides in European Groundwaters: detailed study of representative Aquifers and Simulation of possible Evolution scenarios
63 PEREBAR	Long-term performance of permeable reactive barriers used for the remediation of contaminated groundwater
64 PhytoDec	A Decision Support System to quantify cost/benefit relationships of the use of vegetation in the management of heavy metal polluted soils and dredged sediments
65 PIRAMID	Passive in Situ Remediation of Acidic Mine / Industrial Drainage
66 PURE	Protection of Groundwater Resources at Industrially Contaminated Sites
67 RADWAT	Development of a Continuous, Intelligent, Autonomous, Real Time Monitoring and Alarming System for Radon Detection in Ground Water
68 REA	Support for the integration of the Polish Geological Institute's Centre of Excellence: Research of Abiotic Environment in the European Research area
69 RECETOX	Centre of Excellence in Environmental Chemistry and Ecotoxicology
70 RECOVER:2010	Predicting recovery in acidified freshwaters by the year 2010 and beyond
71 SNOWMAN	Sustainable management of soil and groundwater under the pressure of pollution and contamination (ERA-NET)
72 SOWA	Integrated Soil and Water Protection
73 STAR	Standardisation of river classifications: Framework method for calibrating different biological survey results against ecological quality classifications to be developed for the Water Framework Directive
74 TARGET	Integrated Assessment Tools to Gauge Local Functional Status Within Freshwater Ecosystems
75 TOFPSW	Tracking the origin of faecal pollution in surface water
76 TRACE-FRACTURE	Toward an Improved Risk Assessment of the Contaminant Spreading in Fractured Underground Reservoirs
77 WATCH	Water Catchment Areas: Tools for management and control of hazardous compounds.
78 Water Analysis	Method for on-line measuring and analysis of polluted water
79 WATMOVE	Water Movements in Road Pavements and Earthworks
80 WEKNOW	Web-based European Knowledge Network On Water
81 WELCOME	Development of Integrated Management System (IMS) for Prevention and Reduction of Pollution and Reduction of Pollution of Waterbodies at Contaminated Industrial Areas
82 W-SAHARA	Stochastic analysis of well head protection and risk assessment



### 6.3 EUGRIS Help pages

EUGRIS provides a series of user guidance sheets to help visitors using the system. This interims report only includes a selection of them. More will be available from the EUGRIS Help pages.

**EUGRIS HELP**

EUGRIS is rapidly developing and can be difficult for the EUGRIS help department to keep up! So please note that some of these help files will contain screen shots with older versions of the EUGRIS graphics, however we still believe these help files will be of service to you.

**Your EUGRIS:**

- [Your first Visit](#)
- [What Can I do on EUGRIS \(PDF 860 KB\)](#)
- [How to Register \(PDF 144 KB\)](#)
- [Viewing information site map](#)
- [Posting information site map](#)
- [Site index](#)

**Resources:**

- [Adding Resources \(PDF 400 KB\)](#)
- [How to navigate resources \(PDF 770 KB\)](#)

**Funding:**

- [Add research funding programme entry \(247 KB\)](#)

**Projects:**

- [How to post a project \(254 KB\)](#)

**Glossary:**

- [How to post a translation in the EUGRIS glossary \(171 KB\)](#)

Close Window