



## Website



Reducing nutrient loadings from agricultural soils to the Baltic Sea via groundwater and streams

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SOILS2SEA DELIVERABLE NO. 1.1

# Website

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Reducing nutrient loadings from agricultural soils to the Baltic Sea via groundwater and streams

This report is a publicly accessible deliverable of the Soils2Sea project. The present work has been carried out within the project 'Reducing nutrient loadings from agricultural soils to the Baltic Sea via groundwater and streams (Soils2Sea)', which has received funding from BONUS, the joint Baltic Sea research and development programme (Art 185), funded jointly from the European Union's Seventh Programme for research, technological development and demonstration and from The Danish Council for Strategic Research, The Swedish Environmental Protection Agency (Naturvårdsverket), The Polish National Centre for Research and Development, The German Ministry for Education and Research (Bundesministerium für Bildung und Forschung), and The Russian Foundation for Basic Researches (RFBR).

This report may be downloaded from the internet and copied, provided that it is not changed and that it is properly referenced. It may be cited as:

Refsgaard JC, Myren R, Hoelstad T. Website, Soils2Sea Deliverable 1.1. Geological Survey of Denmark and Greenland, Copenhagen, June 2014, [www.Soils2Sea.eu](http://www.Soils2Sea.eu)

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# 1. Overview

## 1.1 Objectives

The website has the following objectives:

- To promote awareness of Soils2Sea and support dissemination of the project's concepts and results
- To provide a platform for storage and exchange of information and data among Soils2Sea partners

## 1.2 Website address and structure

The Soils2Sea website has the address: [www.Soils2Sea.eu](http://www.Soils2Sea.eu).

All information (thus far) is in English. It is not intended that any sections of the website itself will be written in other languages, but there will be some material for stakeholders and policy makers in local languages as required.

The website consists of a public part that is freely accessible to all and an internal part for consortium partners. The internal site is password protected.

## 1.3 Status

The website was launched at the Soils2Sea kick-off meeting 25-27 February, 2014 and has been operational since then. The website is continuously updated. The present report provides a brief description of the structure, functionalities and status of the site as of September 2014.

## 2. Content – public website

### 2.1 Main

The public website's entry page (Main) can be seen in Figure 1. From here there are tabs providing entry to the following sub-sections

- About us
- Meetings
- Project description
- Publications
- Related activities
- Case studies
- For Stakeholders

The link below the photo at the bottom of the page (Download) is the entry to the internal part of the website.



Figure 1 Main page of public part of website

## 2.2 About us

Here the partner names and contact persons are listed. The partner logos includes link to partner websites.

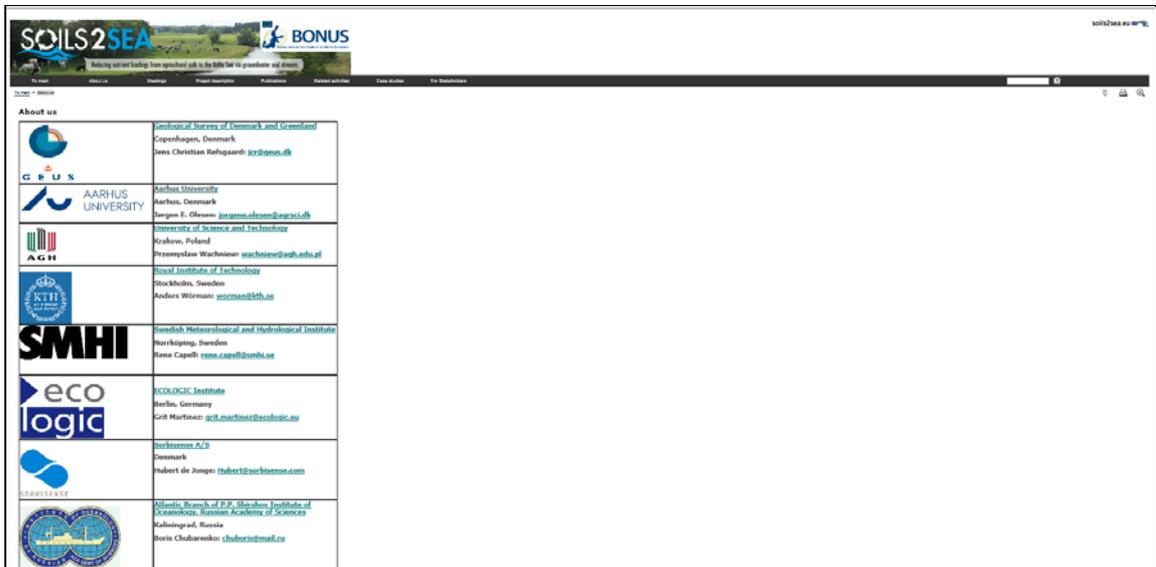


Figure 2 *About us* page of public part of website

## 2.3 Meetings

Here there are links to Soils2Sea relevant meetings, including Soils2Sea project meetings and BONUS meetings.



Figure 3 *Meetings* page of public part of website

## 2.4 Project description

This page contains a brief summary text, a figure and a link (below figure) from where the Description of Work can be downloaded.



**Project description**

**Reducing nutrient loadings from agricultural soils to the Baltic Sea via groundwater and streams (Soils2Sea)**

Both the Baltic Sea Action Plan and the EU Water Framework Directive requires substantial further reductions of nutrient loads (N and P) to the Baltic Sea during the coming years. Achievements of these goals will only be possible by the implementation of fundamental changes in agricultural practices and land use. This will require the introduction of additional new and innovative measures, because the nearest applicable measures have, in most cases, already been utilized. Soils2Sea proposes to exploit the fact that the retention (removal by biogeochemical processes or sedimentation) of nutrients in groundwater and surface water systems shows a significant spatial variation, depending on the local hydrogeological and riverine regime to achieve the goal for nutrient load reduction set out in the Baltic Sea Action Plan. The traditional uniform regulations do not account for local data and knowledge and are much less cost-effective than spatially differentiated regulations with measures targeted towards areas where the natural retention is low. In order to fully exploit the potential of differentiated regulations it is required to utilize all local information and find locally designed and optimized solutions. Besides the need for improved knowledge on the subsurface and nutrient transport and retention processes on a local scale, this calls for new innovative governance regimes with active involvement of key stakeholders. Not the least as the new measures most probably will differentially affect stakeholder groups with conflicting interests.

If we more accurately can predict where in a catchment N and P are retained by estimating the retention in the different compartments along the flow path, and also include the delayed effects of mitigation measures due to long solute travel times in groundwater, then we can more cost-effectively design measures to reduce the nutrient loads to the Baltic Sea. Soils2Sea will therefore study the retention of N and P between the soil/leverage outlets and the coast, including transport pathways such as overland flow and flows in macropores, subsurface tile drains, shallow and deep groundwater, rivers, wetlands and lakes. The concept and the Soils2Sea work packages are illustrated in the figure below.

[Description of Work](#)

Figure 4 *Project description* page of public part of website

## 2.5 Publications

Here there are links to three sub-groups:

- Deliverables. Here Soils2Sea Deliverables will be made available for download, when they have been approved. Today, Deliverable 1.2 can be downloaded.
- Scientific publications. Here journal papers, conference papers and posters will be made available for download. So far this is empty.
- Material for practitioners, policy makers and end users. Here the Soils2Sea flyer can be downloaded.



**Publications**

[Deliverables](#)

[Scientific publications](#)

[Material for practitioners, policy makers, and end users](#)

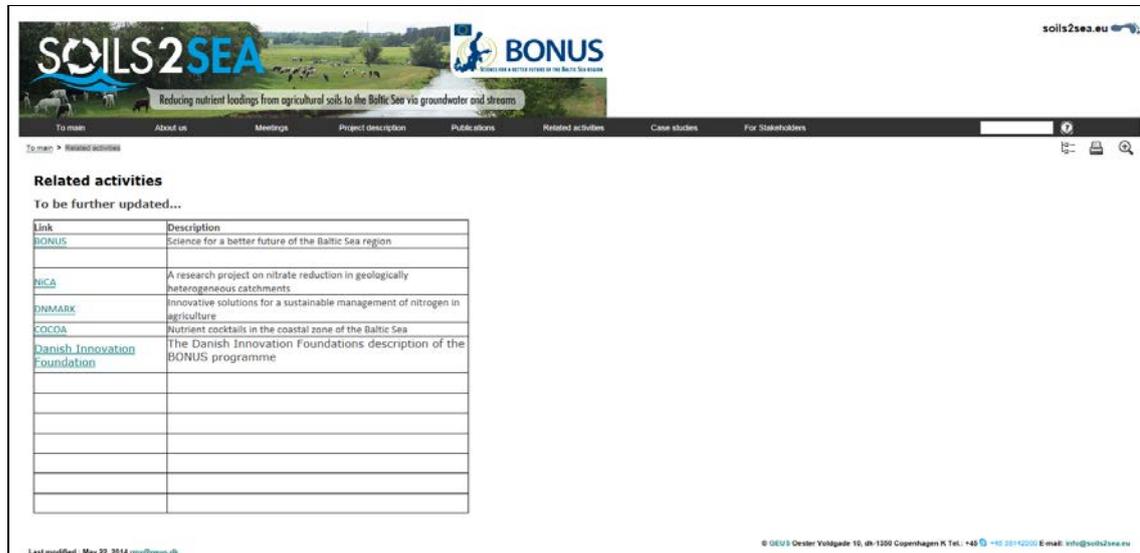
Last modified: August 29, 2014 myd@pmc.dk

© OEU13 Oester Voldgade 10, dk-1350 Copenhagen K Tel: +45 33 14 2000 E-mail: info@soils2sea.eu

Figure 5 *Publications* page of public part of website

## 2.6 Related activities

This page will contain links to activities, projects, programmes, etc. of relevance for Soils2Sea. So far only few links have been added here.



**Related activities**

To be further updated...

Link	Description
<a href="#">BONUS</a>	Science for a better future of the Baltic Sea region
<a href="#">NICA</a>	A research project on nitrate reduction in geologically heterogeneous catchments
<a href="#">DNMARK</a>	Innovative solutions for a sustainable management of nitrogen in agriculture
<a href="#">COCOA</a>	Nutrient cocktails in the coastal zone of the Baltic Sea
<a href="#">Danish Innovation Foundation</a>	The Danish Innovation Foundations description of the BONUS programme

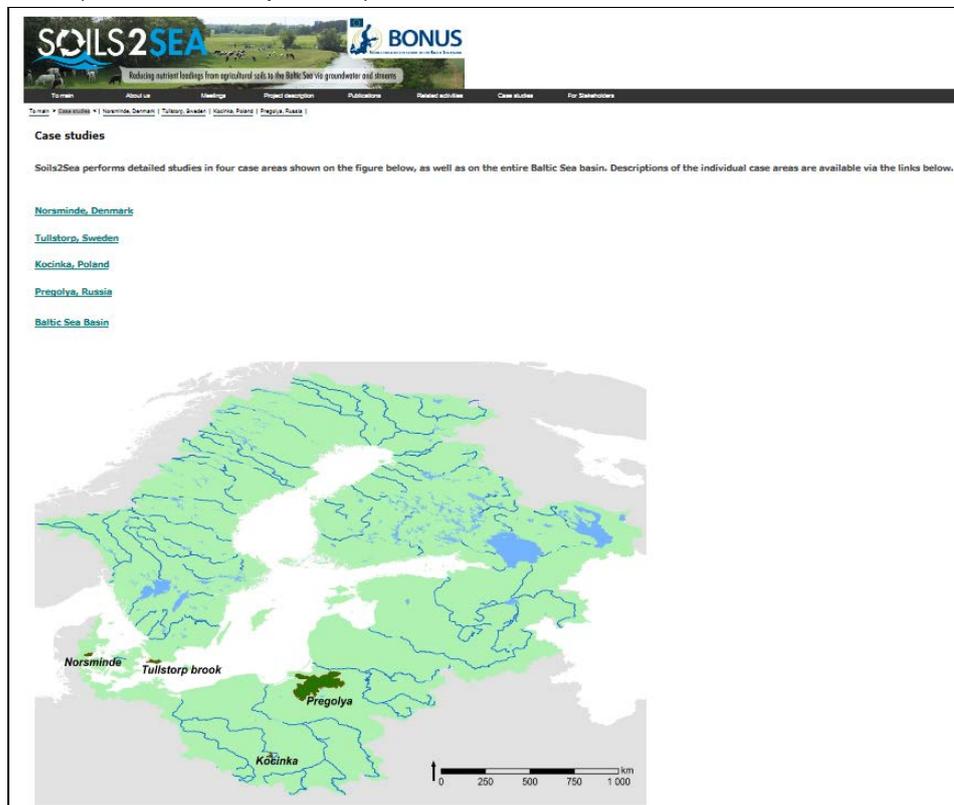
Last modified: May 22, 2014 [info@soils2sea.eu](mailto:info@soils2sea.eu)

© OEU S Oester Vøstgade 10, dk-1250 Copenhagen K, Tel. +45 33 15 20 10 200 E-mail: [info@soils2sea.eu](mailto:info@soils2sea.eu)

Figure 6 *Related activities* page of public part of website

## 2.7 Case studies

This page shows a map of the five case study areas and has links to case study descriptions (downloadable pdf files)



**Case studies**

Soils2Sea performs detailed studies in four case areas shown on the figure below, as well as on the entire Baltic Sea basin. Descriptions of the individual case areas are available via the links below.

- [Norsminde, Denmark](#)
- [Tullstorp, Sweden](#)
- [Kocinka, Poland](#)
- [Pregolya, Russia](#)
- [Baltic Sea Basin](#)

The map shows the Baltic Sea basin with five case study areas highlighted in green: Norsminde, Tullstorp brook, Pregolya, and Kōänka. A scale bar indicates distances up to 1000 km.

Figure 7 *Case studies* page of public part of website

## 2.8 For Stakeholders

This page will be developed to contain materials specifically suited for stakeholders. So far it is empty.



Figure 8 *For Stakeholders* page of public part of website

### 3. Content – internal website

The internal part of the website is accessible through the link below the photo at the bottom of the Main page (Download). Password is required to get access to the internal site.

The internal site basically functions as an ftp site with the structure illustrated in Figure 9.



Reducing nutrient loadings from agricultural soils to the Baltic Sea via groundwater and streams

Soils2Sea

	<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
🔗	<a href="#">Parent Directory</a>			-
📄	<a href="#">0 TOC.xlsx</a>	09-May-2014 20:14	13K	
📄	<a href="#">1 Mailing lists - partners.xlsx</a>	07-May-2014 09:39	11K	
📁	<a href="#">2 Project meetings/</a>	07-May-2014 09:26	-	
📁	<a href="#">3 Steering Committee/</a>	07-May-2014 09:54	-	
📁	<a href="#">4 BONUS/</a>	07-May-2014 09:32	-	
📁	<a href="#">5 Deliverables/</a>	07-May-2014 12:45	-	
📁	<a href="#">6 Dissemination/</a>	08-Jul-2014 12:30	-	
📁	<a href="#">7 Literature/</a>	07-May-2014 09:37	-	
📁	<a href="#">8 Data Transfer/</a>	07-May-2014 09:37	-	
📁	<a href="#">9 Others/</a>	07-May-2014 09:36	-	
📄	<a href="#">Instructions - Download from Soils2Sea internal website.docx</a>	09-May-2014 20:14	194K	

Back to [Soils2Sea](#)

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Figure 9 Front page of the internal part of the website

In addition to storing project information and data, the internal site contains mailings lists for Project Group, Steering Committee, Administrators and Advisory Board. Additional mailing lists will be added as required.

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