

CO₂CARE
CO₂ Site Closure Assessment Research

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D6.1 – FIRST VERSION OF THE CO₂CARE WEBSITE

Milestone 2

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Document Control Page

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Dissemination level as defined in the EU Contract

PU = Public

PP = Distribution limited to other programme participants

RE = Distribution to a group specified by the consortium

CO = Confidential, only allowed for members of the consortium

Change history

Version number	Date	Changed by	Changes made
01	28.02.2011		First draft
02			

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1. Overall structure of the website

Dissemination involves sharing of knowledge and technology gained during the course of the project. The project website has been recognised as a key element in the dissemination strategy and, due to that, a great effort has been done to have it operative from the very beginning of the project.

The project website will consist in two main parts: one accessible to the public, and a restricted part visible only to the project participants.

1. **Public website:** this part will illustrate the results of the project and, in particular, the best practice guidelines for closure and abandonment. The website structure will permit the users to access information through “simplified suggested routes” aimed at helping different groups of stakeholders. The public part of the website will contain:

- publications and brochures produced in the project;
- organised events;
- news of interest;
- links of interest;
- glossary(s) of interest;
- Contact us (for posing questions and receiving answers from the experts);
- FAQ (Frequently Asked Questions);
- Registration to receive News (for receiving periodically info and updates).

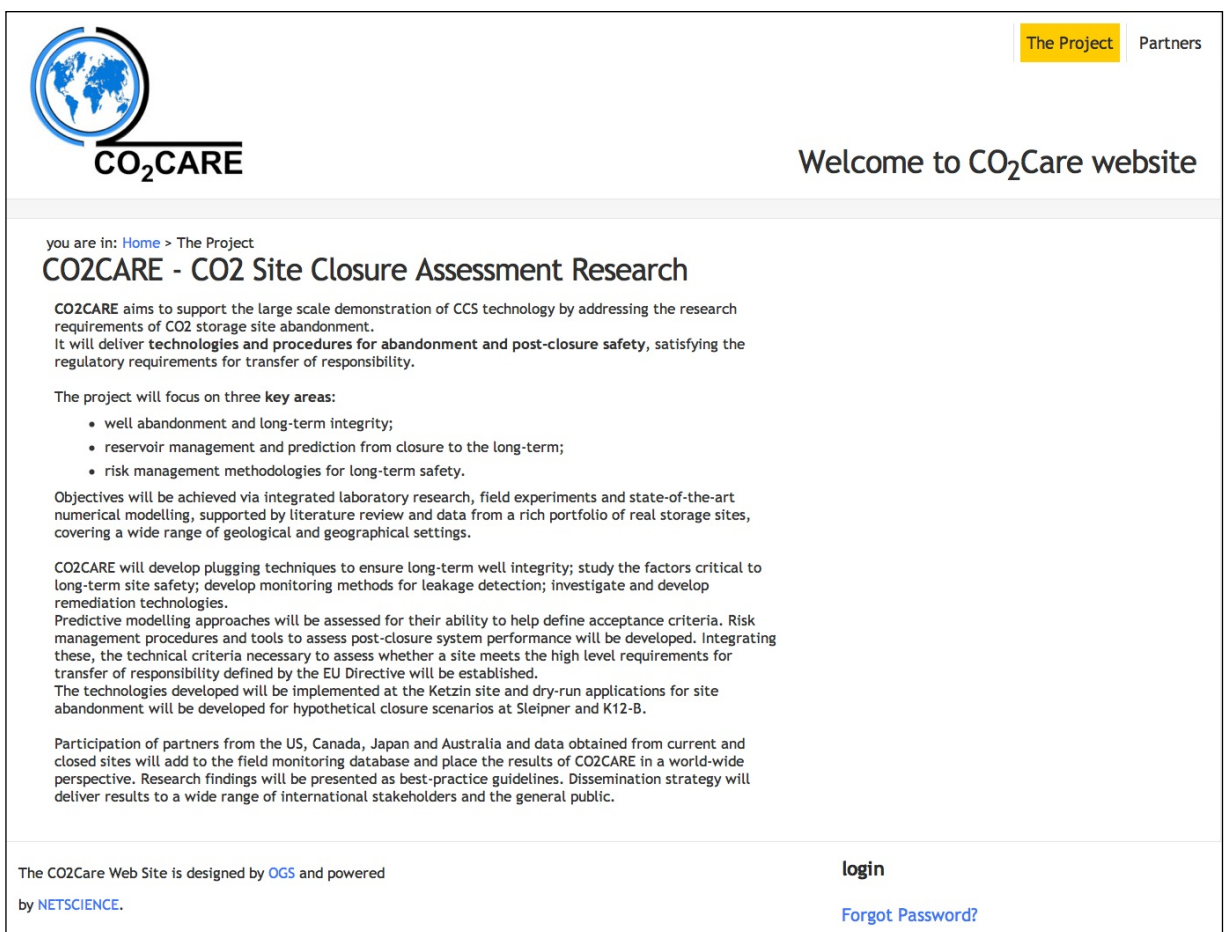
2. In the **reserved area**, partners will find a Workgroup support system (Group Ware) and a Project management system. Through the associated tools, partners will be able to:

- create a private space for every Work Packages for sharing data, results, publications, etc. (e-room);
- manage deliverables and milestones;
- collect and organise reports;
- plan automatic newsletters to inform WP researchers on availability of new files, expiring deliverables and deadlines;
- acquire and collect all the scientific documents and press reviews related to the project topics;
- manage Contact us and FAQ from the public part of the website.

In a further development of the website, a specific area will be accessible to external groups of stakeholders (industry, NGOs, RTD providers), who could use a series of tools to collect inputs and facilitate the discussion.

2. The first temporary website

A temporary website has been created and opened during the second month of the project. The address of the website is: www.co2care.org During these first months, efforts have been concentrated to the restricted part of the website, in order to allow the partners to familiarize with the different tools offered by the website (like the management of the deliverables and the file system). For this reason, while the restricted part already have the majority of functionalities activated, the public part at the moment have active only two pages showing a description of the project and the list of the project participants.



The screenshot shows the public page of the CO2CARE website. At the top left is the CO2CARE logo. At the top right are navigation links for 'The Project' and 'Partners'. The main heading is 'Welcome to CO2Care website'. Below this, a breadcrumb trail reads 'you are in: Home > The Project'. The main title is 'CO2CARE - CO2 Site Closure Assessment Research'. The text describes the project's aim to support large-scale CCS demonstration by addressing research requirements for CO2 storage site abandonment, focusing on technologies and procedures for abandonment and post-closure safety. It lists three key areas: well abandonment and long-term integrity, reservoir management and prediction, and risk management methodologies. It also details objectives, including integrated laboratory research, field experiments, and state-of-the-art numerical modelling. The page concludes with information about participation from various international partners and the dissemination strategy.

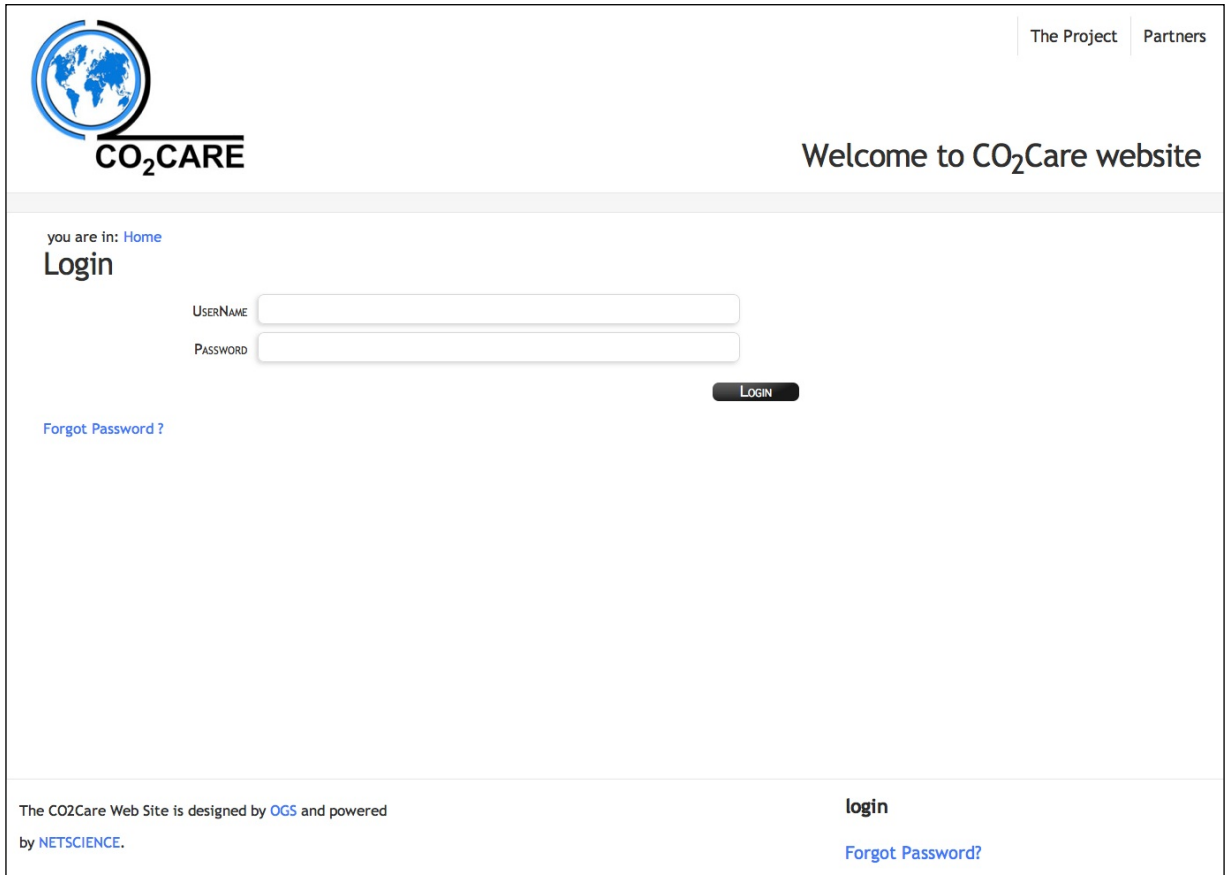
The CO2Care Web Site is designed by OGS and powered by NETSCIENCE.

login
Forgot Password?

Figure 1 – The public page presenting the CO2CARE project

3. The restricted part of the project website

To access to the restricted area of the website, a username and password are necessary (these are automatically created and sent to the users during the first registration). The authentication will be performed through secure browsing (https) and the users will also continue to browse the entire site through https until logging out from the application.



The screenshot shows the login page of the CO₂CARE website. At the top left is the CO₂CARE logo. At the top right are navigation links for 'The Project' and 'Partners'. Below the logo, the text 'Welcome to CO₂Care website' is displayed. The main content area features a 'Login' section with the text 'you are in: [Home](#)'. Below this, there are two input fields: 'USERNAME' and 'PASSWORD'. A 'LOGIN' button is positioned to the right of the password field. A link for 'Forgot Password?' is located below the input fields. At the bottom of the page, there is a footer with the text 'The CO₂Care Web Site is designed by [OGS](#) and powered by [NETSCIENCE](#).' and a 'login' link.

Figure 2 – Login page of the CO₂CARE website

The restricted area of the project website includes:

- a Web Content Management (WCM);
- a Project Management (PM);
- a Document Management (DM).

3.1 The Web Content Management (WCM)

The management of all the contents of the web is based on two concepts:

- they have to be uploaded and updated directly by the project participants,
- the structure of the public part has to be flexible and dynamic. This means that the sequence of web pages and the organisation of the website “menus” may be decided and implemented directly by the project participants (having the necessary access rights ...).

The first concept is applied thanks to the adoption of a simple word processor, used for uploading texts to the web pages; the second is implemented by a dynamic description of the web pages and their mutual relationships in a parametric form (see the following chapter “Web Configuration”).

3.2 The Project Management (PM)

The restricted part has many functionalities, specifically aimed at managing the project itself. They consist of the:

- definition of the participants’ staff contributing to each specific Work Packages;
- detailed description of the Work Packages (WPs);
- detailed description of Deliverables and Milestones;
- control of the deadline for each deliverable, with automatic e-mails to the WP participants and coordinators, alerting them that the due date is approaching or has already exceeded.

Other functionalities related to the PM are:

- the insertion of private news (active, planned or archived);
- a messaging system to reach all the participants, or the WPs participants (Send Email);
- a system to prepare and send newsletters.

All the above functionalities are ruled according to a hierarchy of permissions:

- **Network Participants:** they can read all the content in the reserved area, add/change all the information related to themselves and upload/download deliverables and files related to the WPs they contribute to;
- **Partner Administrators:** in addition to the permission for the Network Participants, they can also modify the presentation page of their own institute and add/delete/modify the profile of a colleague of their own staff. Usually, for each institute, there is only one Partner Administrator, responsible for the updating of the information about the institute and the staff. All the other participants are listed as Network participants;
- **WP Leaders:** have a special permission that allows them to “freeze” the deliverables in their WP, when they consider the uploaded version as the “final” one. Only one WP leader is admitted for each WP, and only the project coordinator, having the access rights as System Administrator, can change it;
- **System Administrators:** have the special permission to access and modify all the contents in the website (this permission is usually given to the coordinator of the project).

3.3 The Document Management (DM)

Documents may be uploaded, as files, in the Project File Area or in the WP File Areas.

The **Project File Area** is used for organizing all the documents that are of interest to the whole project, as, for example, project proposals, contracts, consortium agreements, minutes of the meetings (General Assembly, Management Board, EC Evaluation Meetings, Workshops, etc.) and related presentations, posters, brochures, etc.



The **WP File Areas** are used for organizing documents of interest for the specific WPs, as, for example, working materials, data files, minutes of technical meetings, articles and reports under preparation, etc.

In both file areas, folders and files may be added and deleted. The tree structure is, hence, free, flexible and dynamic.

All the created folders may be seen and used by all the project participants or, when created, they may be “marked” as visible and accessible only to some of the project participants.

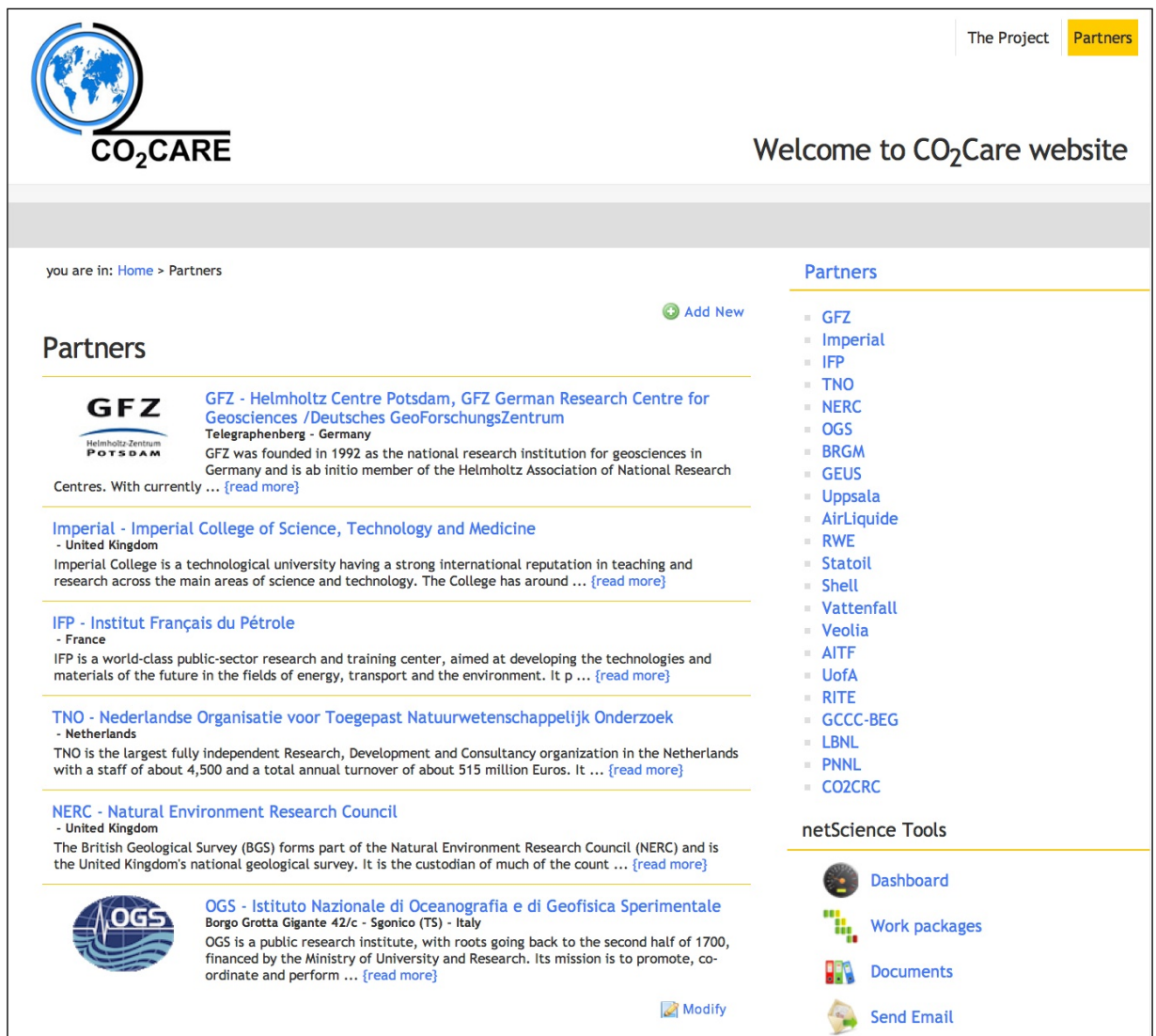
4. Overview of the activated functionalities

The functionalities already activated have been illustrated during the project Kick-off meeting, held in Potsdam on February 1st, 2011. They allow the management of:

- partners;
- staff;
- work packages;
- deliverables;
- documents.

4.1 Partners

This section contains information related to the project partners. The **Figure 3** illustrates the list of the partners with their names, acronyms, logos, addresses and short descriptions.



The screenshot shows the CO₂CARE website interface. At the top left is the CO₂CARE logo. To the right, there are navigation tabs for 'The Project' and 'Partners'. Below the logo, it says 'Welcome to CO₂Care website'. The main content area is titled 'Partners' and includes a breadcrumb 'you are in: Home > Partners'. There is an 'Add New' button. The list of partners includes:

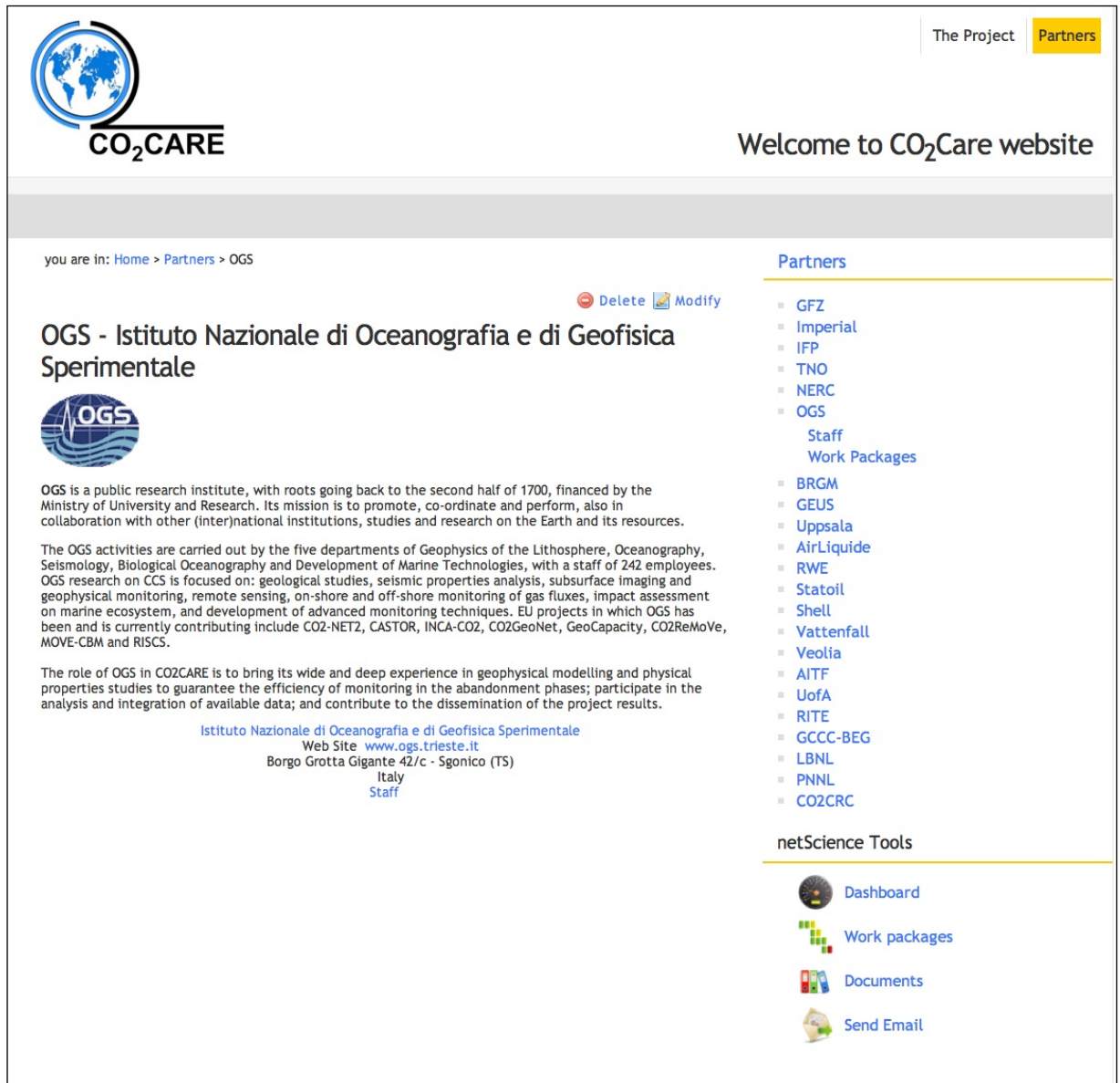
- GFZ** - Helmholtz Centre Potsdam, GFZ German Research Centre for Geosciences /Deutsches GeoForschungszentrum, Telegraphenberg - Germany. GFZ was founded in 1992 as the national research institution for geosciences in Germany and is ab initio member of the Helmholtz Association of National Research Centres. With currently ... [\[read more\]](#)
- Imperial** - Imperial College of Science, Technology and Medicine - United Kingdom. Imperial College is a technological university having a strong international reputation in teaching and research across the main areas of science and technology. The College has around ... [\[read more\]](#)
- IFP** - Institut Français du Pétrole - France. IFP is a world-class public-sector research and training center, aimed at developing the technologies and materials of the future in the fields of energy, transport and the environment. It p ... [\[read more\]](#)
- TNO** - Nederlandse Organisatie voor Toegepast Natuurwetenschappelijk Onderzoek - Netherlands. TNO is the largest fully independent Research, Development and Consultancy organization in the Netherlands with a staff of about 4,500 and a total annual turnover of about 515 million Euros. It ... [\[read more\]](#)
- NERC** - Natural Environment Research Council - United Kingdom. The British Geological Survey (BGS) forms part of the Natural Environment Research Council (NERC) and is the United Kingdom's national geological survey. It is the custodian of much of the count ... [\[read more\]](#)
- OGS** - Istituto Nazionale di Oceanografia e di Geofisica Sperimentale, Borgo Grotta Gigante 42/c - Sgonico (TS) - Italy. OGS is a public research institute, with roots going back to the second half of 1700, financed by the Ministry of University and Research. Its mission is to promote, coordinate and perform ... [\[read more\]](#)

On the right side, there is a 'Partners' list with acronyms: GFZ, Imperial, IFP, TNO, NERC, OGS, BRGM, GEUS, Uppsala, AirLiquide, RWE, Statoil, Shell, Vattenfall, Veolia, AITF, UofA, RITE, GCCC-BEG, LBNL, PNNL, CO2CRC. Below this is a 'netScience Tools' section with icons and links for Dashboard, Work packages, Documents, and Send Email. A 'Modify' button is also visible at the bottom of the partner list.

Figure 3 – List of the partners of the project


When a partner is selected from the list, appear a longer presentation and the main references (address, telephone number, country, etc.).

A link to the own institute's website is also available, as well as the person who will be the reference contact for the institute and that can be contacted by email just by clicking on the name.



The screenshot shows the CO2CARE website interface. At the top left is the CO2CARE logo. To the right are navigation tabs for 'The Project' and 'Partners'. Below the logo is the text 'Welcome to CO2Care website'. A breadcrumb trail indicates the user is in 'Home > Partners > OGS'. The main content area features the OGS logo and title 'OGS - Istituto Nazionale di Oceanografia e di Geofisica Sperimentale'. It includes a 'Delete' and 'Modify' button, a detailed description of OGS as a public research institute, and contact information. On the right, a 'Partners' list includes GFZ, Imperial, IFP, TNO, NERC, OGS, Staff, Work Packages, BRGM, GEUS, Uppsala, AirLiquide, RWE, Statoil, Shell, Vattenfall, Veolia, AITF, UofA, RITE, GCCC-BEG, LBNL, PNNL, and CO2CRC. At the bottom right, a 'netScience Tools' section contains icons and links for Dashboard, Work packages, Documents, and Send Email.

Figure 4 – Description of each project partner



[The Project](#)
[Partners](#)

Welcome to CO₂Care website

you are in: [Home](#) > [Partners](#) > OGS

Modify OGS

ACRONYM

NAME

PARTNER TYPE

ADDRESS

FAX

WEB SITE
e.g. www.area.trieste.it

COUNTRY

Logo (suggested dimensions: 85px x 85px or 150px x 55px)

[Scegli Documento](#)

Image (suggested dimensions: maximum width 490px)

[Scegli Documento](#)

Abstract

OGS is a public research institute, with roots going back to the second half of 1700, financed by the Ministry of University and Research. Its mission is to promote, co-ordinate and perform, also in collaboration with other (inter)national institutions, studies and research on the Earth and its resources.

Description

The OGS activities are carried out by the five departments of Geophysics of the Lithosphere, Oceanography, Seismology, Biological Oceanography and Development of Marine Technologies, with a staff of 242 employees. OGS research on CCS is focused on: geological studies, seismic properties analysis, subsurface imaging and geophysical monitoring, remote sensing, on-shore and off-shore monitoring of gas fluxes, impact assessment on marine ecosystem, and development of advanced monitoring techniques. EU projects in which OGS has been and is currently contributing include CO₂-NET2, CASTOR, INCA-CO₂, CO₂GeoNet, GeoCapacity, CO₂ReMoVe, MOVE-CBM and RISCS.

Partners

- GFZ
- Imperial
- IFP
- TNO
- NERC
- OGS
 - Staff
 - Work Packages
- BRGM
- GEUS
- Uppsala
- AirLiquide
- RWE
- Statoil
- Shell
- Vattenfall
- Veolia
- AITF
- UofA
- RITE
- GCCC-BEG
- LBNL
- PNNL
- CO₂CRC

netScience Tools





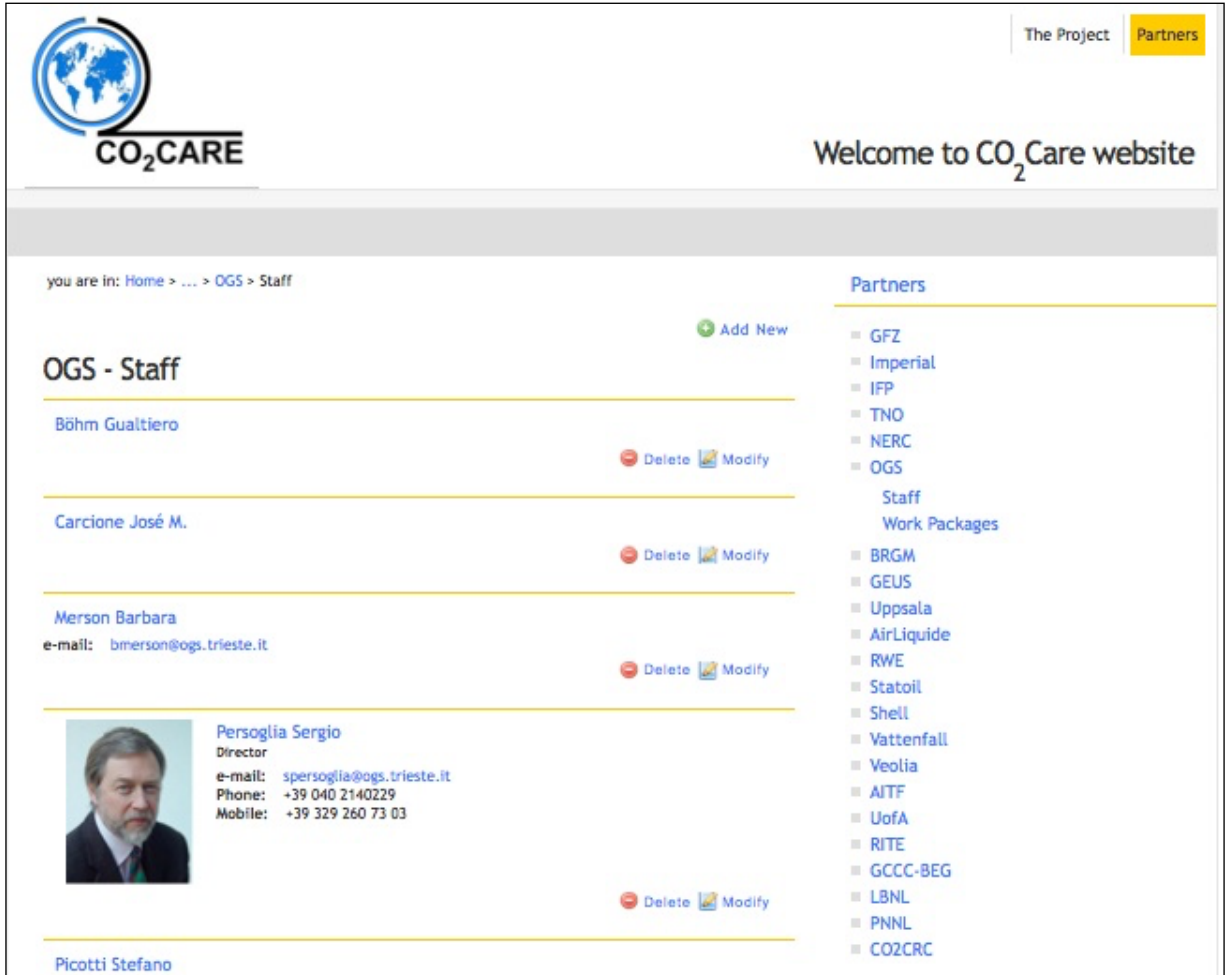
-  [Dashboard](#)
-  [Work packages](#)
-  [Documents](#)
-  [Send Email](#)

Figure 5 – Form for uploading information about a project partner

4.2 Staff

For each partner, there is a list of people involved in the project. This list is reachable by clicking on **Staff**, in the second level menu on the right appearing under the chosen Partner.




The screenshot shows the CO₂CARE website interface. At the top left is the CO₂CARE logo. At the top right, there are two tabs: 'The Project' and 'Partners' (which is highlighted in yellow). Below the logo, it says 'Welcome to CO₂Care website'. A breadcrumb trail reads 'you are in: Home > ... > OGS > Staff'. On the right side, there is a 'Partners' sidebar with a list of partner organizations: GFZ, Imperial, IFP, TNO, NERC, OGS, Staff, Work Packages, BRGM, GEUS, Uppsala, AirLiquide, RWE, Statoil, Shell, Vattenfall, Veolia, AITF, UofA, RITE, GCCC-BEG, LBNL, PNNL, and CO2CRC. The main content area is titled 'OGS - Staff' and has an 'Add New' button. It lists several staff members:

- Böhm Gualtiero**: Includes 'Delete' and 'Modify' buttons.
- Carcione José M.**: Includes 'Delete' and 'Modify' buttons.
- Merson Barbara**: Includes 'e-mail: bmerson@ogs.trieste.it' and 'Delete' and 'Modify' buttons.
- Persoglia Sergio**: Includes a profile picture, title 'Director', 'e-mail: spersoglia@ogs.trieste.it', 'Phone: +39 040 2140229', 'Mobile: +39 329 260 73 03', and 'Delete' and 'Modify' buttons.
- Picotti Stefano**: Name only, partially visible at the bottom.

Figure 6 – List of the staff participating in the project

The first time a new contact is added (by inserting the name, the email address and the username), an email is automatically sent by the system to the user. This email contains a Temporary password (generated by the system) and the instructions for access to the reserved area, log in, how to change the temporary password (for a new one chosen by the user), and how to use the main functionalities of the website.

There is always the possibility to recover the username and the password, by clicking on “Forgot password?” button located under the login bar: by inserting the email address used during the first registration, the system automatically send the username and a new Temporary password to the registered email address.




The Project Partners

Welcome to CO₂Care website

you are in: [Home](#) > ... > [OGS](#) > [Staff](#)

- Delete + Modify

OGS - Persoglia Sergio



e-mail: spersoglia@ogs.trieste.it
 Director
 Phone: +39 040 2140229
 Mobile: +39 329 260 73 03

Education

Dr Sergio Persoglia is the Director for International Collaborations at the OGS, that he joined in 1981. Prior to this assignment, he has been head of the team for R & D in Seismics ('86-'87) Director of the department Geophysics of the Lithosphere ('87-'95) and Advisor to the OGS President ('96-'01).

Dr Sergio Persoglia holds a degree in Electronic Engineering at the University of Trieste, Italy.

Skills

In the last 10 years, his main area of activity has been the development of international collaborations in Europe and, as such, he has been **President** in 2001 and 2010 of **ENeRG**, the European Network for Research in Geo Energy, joining institutes from 31 countries. He has been OGS responsible of many EC projects, some of them in the area of CCS, as **Castor**, **InCA-CO2**, **CO2GeoNet**, **CO2ReMoVe**, **Geocapacity**, **RISCS**, **CO2CARE**, **CGS Europe**, **SiteChar**, **ECCSEL**.

In the last years, he acted as **Network Manager** and, then, **Secretary** of **CO2GeoNet**, the European Network that involves more than 250 researchers in 13 institutes from 7 European countries. Actually he is **Secretary General** of the **Association CO2GeoNet**, a legal entity registered in France and **Secretary** of the **Italian CO2 Club**.

In October 2010, he has started a new duty, as **coordinator** of the **CO2 Geological Storage Joint Program** in **EERA**, the **European Energy Research Alliance**.

Involved in the following Work Packages

WP6 - Dissemination
 To disseminate the results to stakeholders and public; To create the basis for a fruitful interaction with the CCS research community and stakeholders f [\[read more\]](#)

WP7 - Project Management
 WP7 oversees the administrative, technical and financial management of the project, including financial and technical coordination, project planning, organisation of meetings [\[read more\]](#)

Partners

- ▣ GFZ
- ▣ Imperial
- ▣ IFP
- ▣ TNO
- ▣ NERC
- ▣ OGS
 - Staff
 - Work Packages
- ▣ BRGM
- ▣ GEUS
- ▣ Uppsala
- ▣ AirLiquide
- ▣ RWE
- ▣ Statoil
- ▣ Shell
- ▣ Vattenfall
- ▣ Veolia
- ▣ AITF
- ▣ UofA
- ▣ RITE
- ▣ GCCC-BEG
- ▣ LBNL
- ▣ PNNL
- ▣ CO2CRC

netScience Tools





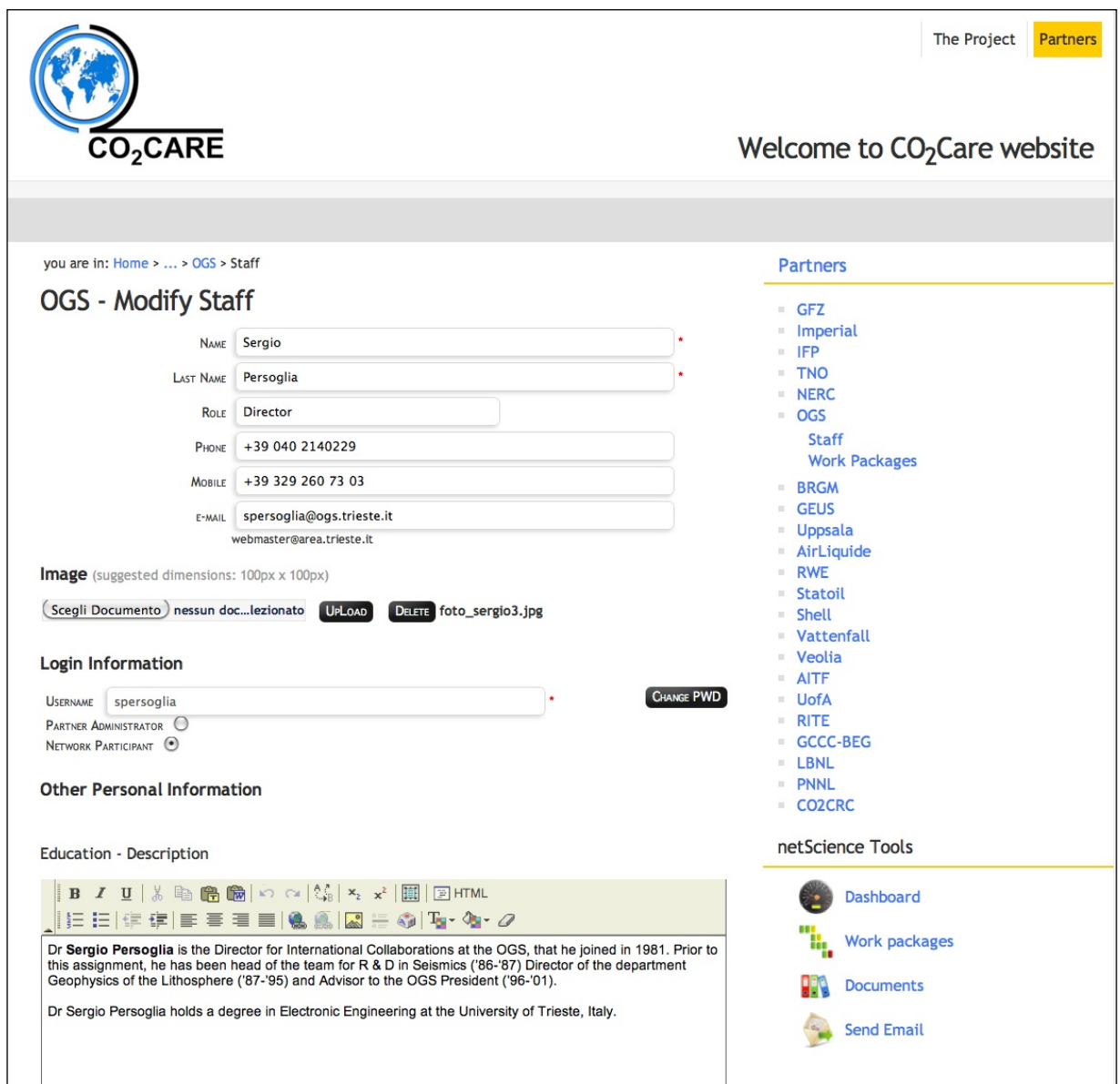
-  [Dashboard](#)
-  [Work packages](#)
-  [Documents](#)
-  [Send Email](#)

Figure 7 – Information related to a project participant

Each participant can fill in the form (using a simple word processor) with its personal information:

- references (phone, mobile, e-mail);
- role in the project;
- description of education;
- description of skills;
- photo;
- curriculum vitae (to upload in a separate file).

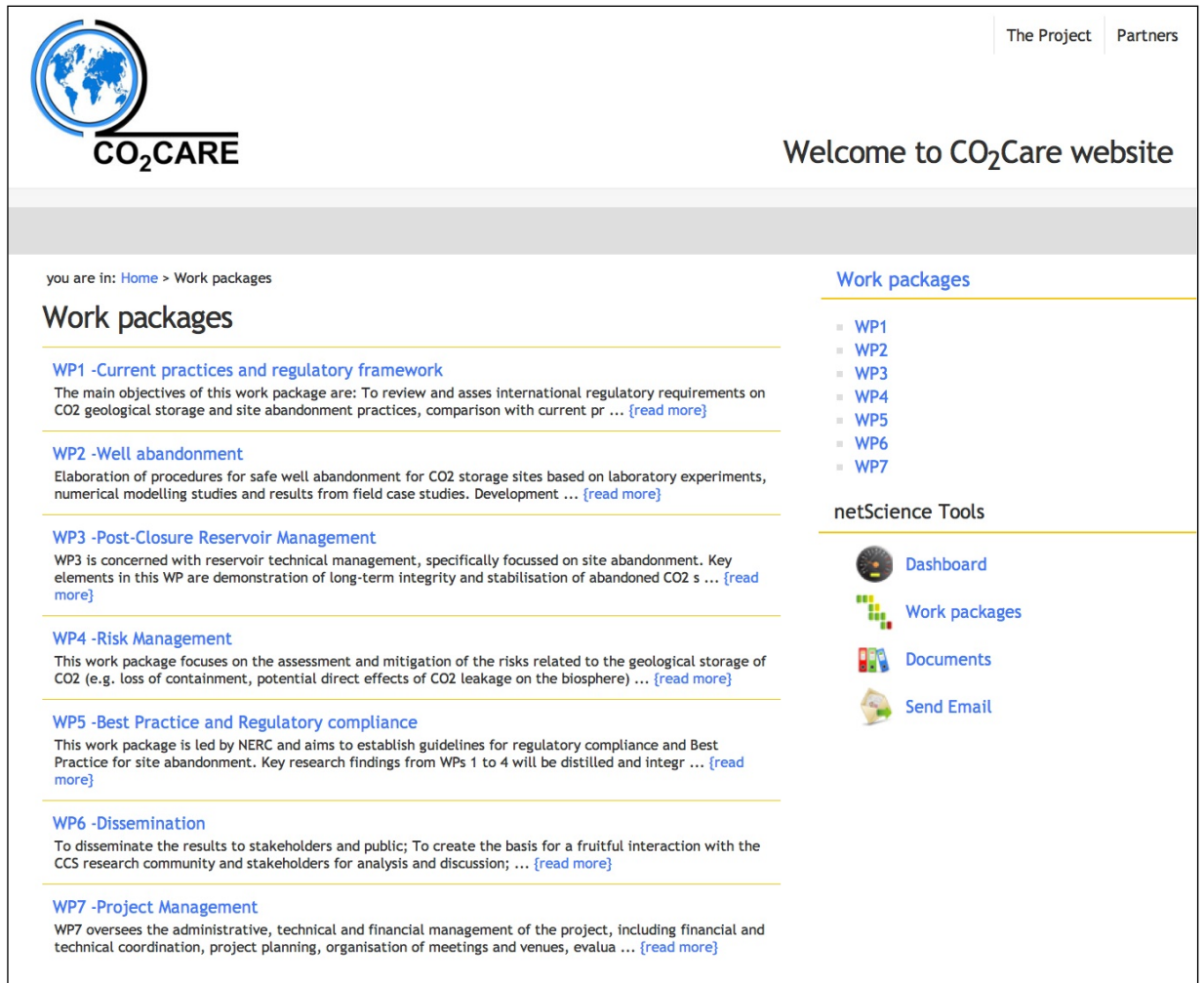


The screenshot shows the CO2CARE website interface. At the top left is the CO2CARE logo. At the top right, there are navigation tabs for 'The Project' and 'Partners'. The main heading reads 'Welcome to CO2Care website'. Below this, a breadcrumb trail indicates the user is in 'Home > ... > OGS > Staff'. The main content area is titled 'OGS - Modify Staff' and contains several form fields: NAME (Sergio), LAST NAME (Persoglia), ROLE (Director), PHONE (+39 040 2140229), MOBILE (+39 329 260 73 03), and E-MAIL (spersoglia@ogs.trieste.it, webmaster@area.trieste.it). Below the form is an 'Image' section with a file upload button and a 'DELETE' button for 'foto_sergio3.jpg'. The 'Login Information' section includes a USERNAME field (spersoglia) and a 'CHANGE PWD' button. The 'Other Personal Information' section is currently empty. Below this is an 'Education - Description' section with a rich text editor containing text about Dr Sergio Persoglia. On the right side, there is a 'Partners' list including GFZ, Imperial, IFP, TNO, NERC, OGS, BRGM, GEUS, Uppsala, AirLiquide, RWE, Statoil, Shell, Vattenfall, Veolia, AITF, UofA, RITE, GCCC-BEG, LBNL, PNNL, and CO2CRC. Below the partners list is a 'netScience Tools' section with links to Dashboard, Work packages, Documents, and Send Email.

Figure 8 – Form for uploading the data related to a project participant

4.3 Work Packages (WPs)

All the information related to the project Work Packages is stored in a series of interconnected databases.



The screenshot shows the CO2CARE website interface. At the top left is the CO2CARE logo. At the top right are navigation links for 'The Project' and 'Partners'. The main heading reads 'Welcome to CO2Care website'. Below this, a breadcrumb trail indicates 'you are in: Home > Work packages'. The central section is titled 'Work packages' and lists seven work packages, each with a brief description and a 'read more' link:

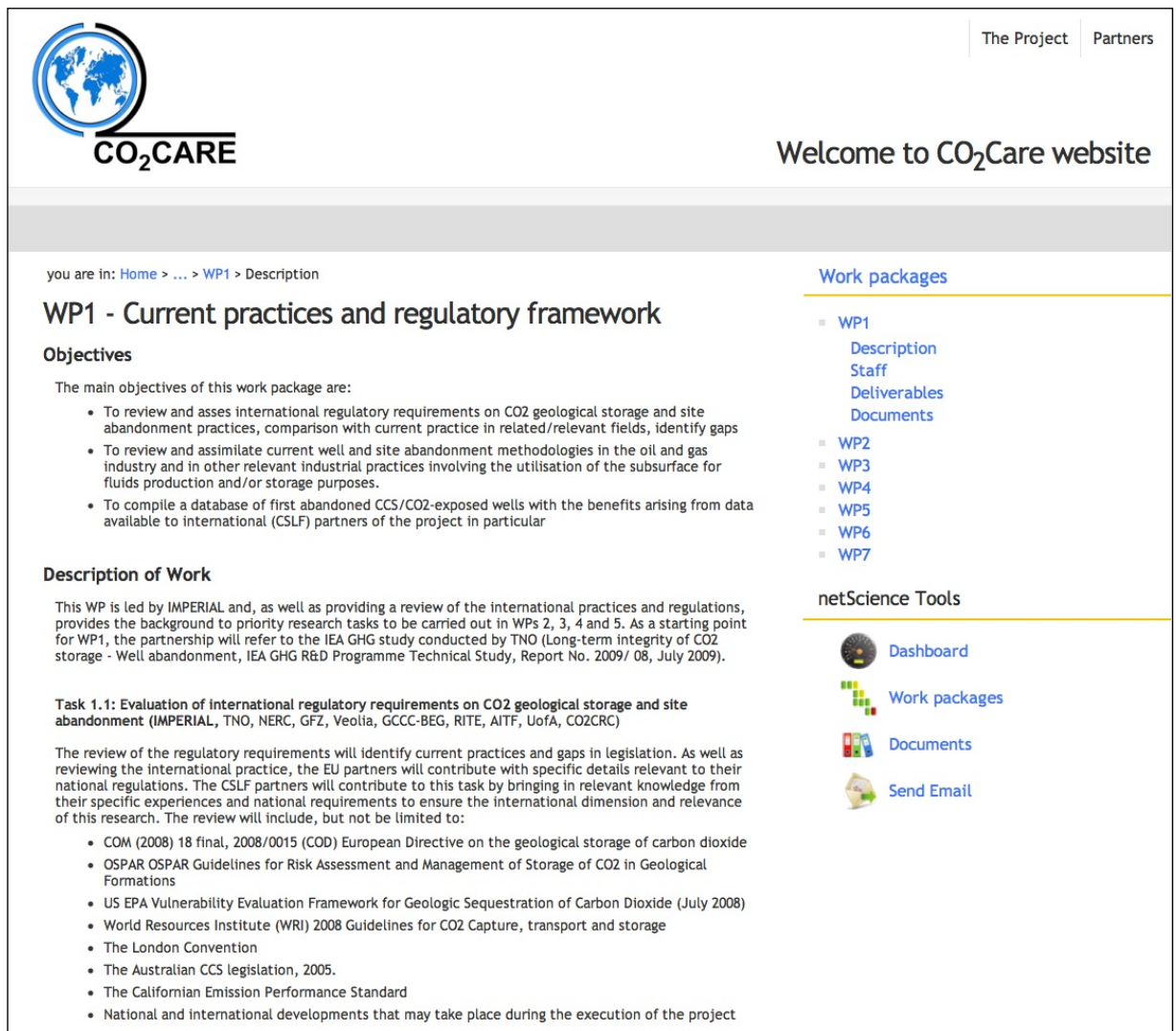
- WP1 -Current practices and regulatory framework**: The main objectives of this work package are: To review and asses international regulatory requirements on CO2 geological storage and site abandonment practices, comparison with current pr ... [{read more}](#)
- WP2 -Well abandonment**: Elaboration of procedures for safe well abandonment for CO2 storage sites based on laboratory experiments, numerical modelling studies and results from field case studies. Development ... [{read more}](#)
- WP3 -Post-Closure Reservoir Management**: WP3 is concerned with reservoir technical management, specifically focussed on site abandonment. Key elements in this WP are demonstration of long-term integrity and stabilisation of abandoned CO2 s ... [{read more}](#)
- WP4 -Risk Management**: This work package focuses on the assessment and mitigation of the risks related to the geological storage of CO2 (e.g. loss of containment, potential direct effects of CO2 leakage on the biosphere) ... [{read more}](#)
- WP5 -Best Practice and Regulatory compliance**: This work package is led by NERC and aims to establish guidelines for regulatory compliance and Best Practice for site abandonment. Key research findings from WPs 1 to 4 will be distilled and integr ... [{read more}](#)
- WP6 -Dissemination**: To disseminate the results to stakeholders and public; To create the basis for a fruitful interaction with the CCS research community and stakeholders for analysis and discussion; ... [{read more}](#)
- WP7 -Project Management**: WP7 oversees the administrative, technical and financial management of the project, including financial and technical coordination, project planning, organisation of meetings and venues, evalua ... [{read more}](#)

On the right side of the page, there is a 'Work packages' list (WP1-WP7) and a 'netScience Tools' section with icons and links for 'Dashboard', 'Work packages', 'Documents', and 'Send Email'.

Figure 9 – List of the project Work Packages

By choosing one Work Package, all the information related to it appears (see **Figure 10** and **Figure 11**): Description of Work, description of Tasks, Staff contributing to the work package, Deliverables and Milestones.

This information is generally uploaded at the beginning of the project and refers to the content of Annex I of the EC contract, and may be changed by the WP Leaders.



The screenshot shows the CO2CARE website interface. At the top left is the CO2CARE logo. In the top right, there are navigation links for 'The Project' and 'Partners'. The main heading reads 'Welcome to CO2Care website'. Below this, a breadcrumb trail indicates the user is in 'Home > ... > WP1 > Description'. The main content area is titled 'WP1 - Current practices and regulatory framework' and includes sections for 'Objectives', 'Description of Work', and a list of references. A sidebar on the right contains a 'Work packages' menu with links for WP1 through WP7, and a 'netScience Tools' section with links for Dashboard, Work packages, Documents, and Send Email.

you are in: [Home](#) > ... > [WP1](#) > Description

WP1 - Current practices and regulatory framework

Objectives

The main objectives of this work package are:

- To review and assess international regulatory requirements on CO2 geological storage and site abandonment practices, comparison with current practice in related/relevant fields, identify gaps
- To review and assimilate current well and site abandonment methodologies in the oil and gas industry and in other relevant industrial practices involving the utilisation of the subsurface for fluids production and/or storage purposes.
- To compile a database of first abandoned CCS/CO2-exposed wells with the benefits arising from data available to international (CSLF) partners of the project in particular

Description of Work

This WP is led by IMPERIAL and, as well as providing a review of the international practices and regulations, provides the background to priority research tasks to be carried out in WPs 2, 3, 4 and 5. As a starting point for WP1, the partnership will refer to the IEA GHG study conducted by TNO (Long-term integrity of CO2 storage - Well abandonment, IEA GHG R&D Programme Technical Study, Report No. 2009/ 08, July 2009).

Task 1.1: Evaluation of international regulatory requirements on CO2 geological storage and site abandonment (IMPERIAL, TNO, NERC, GFZ, Veolia, GCCC-BEG, RITE, AITF, UofA, CO2CRC)

The review of the regulatory requirements will identify current practices and gaps in legislation. As well as reviewing the international practice, the EU partners will contribute with specific details relevant to their national regulations. The CSLF partners will contribute to this task by bringing in relevant knowledge from their specific experiences and national requirements to ensure the international dimension and relevance of this research. The review will include, but not be limited to:

- COM (2008) 18 final, 2008/0015 (COD) European Directive on the geological storage of carbon dioxide
- OSPAR OSPAR Guidelines for Risk Assessment and Management of Storage of CO2 in Geological Formations
- US EPA Vulnerability Evaluation Framework for Geologic Sequestration of Carbon Dioxide (July 2008)
- World Resources Institute (WRI) 2008 Guidelines for CO2 Capture, transport and storage
- The London Convention
- The Australian CCS legislation, 2005.
- The Californian Emission Performance Standard
- National and international developments that may take place during the execution of the project

Work packages

- WP1
 - Description
 - Staff
 - Deliverables
 - Documents
- WP2
- WP3
- WP4
- WP5
- WP6
- WP7

netScience Tools

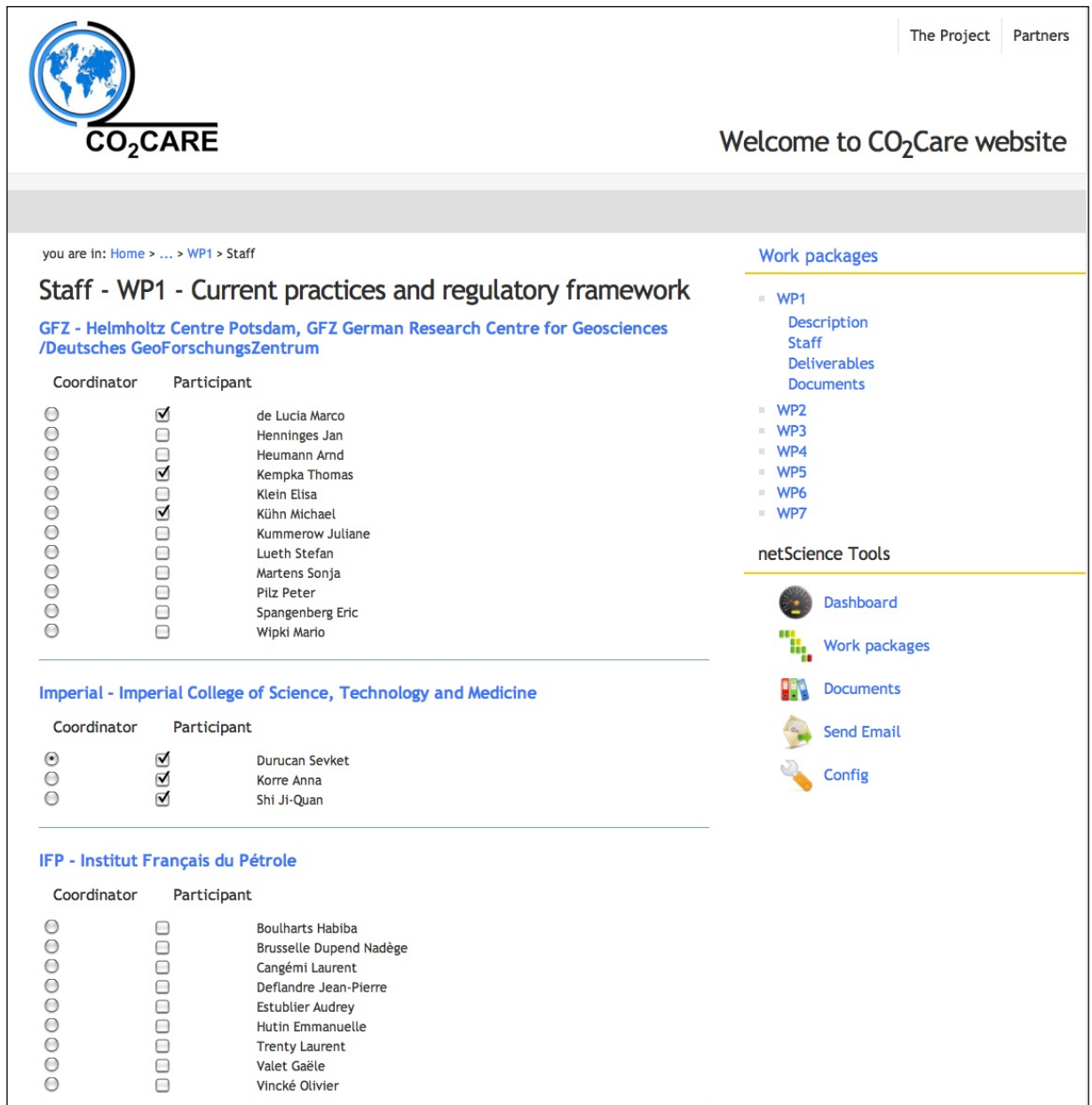
- Dashboard
- Work packages
- Documents
- Send Email

Figure 10 – Information related to a Work Package (description, tasks ...)

Staff
<p>Imperial - Imperial College of Science, Technology and Medicine Durucan Sevket (WP Leader) Korre Anna Shi Ji-Quan</p>
<p>AITF - Alberta Innovates - Technology Futures Bachu Stefan Faltinson John Zhang Min</p>
<p>CO2CRC - CO2CRC Management Pty Ltd Jenkins Charles</p>
<p>GFZ - Helmholtz Centre Potsdam, GFZ German Research Centre for Geosciences /Deutsches GeoForschungsZentrum de Lucia Marco Kempka Thomas Kühn Michael</p>
<p>AirLiquide - L'AIR LIQUIDE S.A A DIRECTOIRE ET CONSEIL DE SURVEILLANCE Bourhy Claire Carles Patricia</p>
<p>NERC - Natural Environment Research Council Chadwick Andy Pearce Jonathan</p>
<p>TNO - Nederlandse Organisatie voor Toegepast Natuurwetenschappelijk Onderzoek Kronimus Alexander Nepveu Manuel Wildenborg Ton</p>
<p>Shell - Shell International BV Liteanu Emilia Otto Claus</p>
<p>Statoil - Statoil Petroleum Torp Tore A.</p>
<p>UofA - University of Alberta Roston Ben</p>
<p>Vattenfall - Vattenfall Research and Development AB Bernstone Christian Dalhoff Finn Wittek Andrea</p>
<p>Veolia - Veolia Environnement Recherche & Innovation SNC Cessat Pascal Quisel Natalia</p>
<ul style="list-style-type: none"> • Insertion Date: // - System Administrator • Last Update Date: // - System Administrator
<p>Deliverables & Milestones</p> <hr/> <p>✘ MS1 - CO2CARE kick-off meeting Date: 01/02/2011 Lead Participant: GFZ - Minutes printed</p> <hr/> <p>📄 D1.1 - Report on the international regulatory requirements on CO2 geological storage and site abandonment Date: 01/06/2011</p> <hr/> <p>📄 D1.2 - Report on the current site abandonment methodologies in relevant industries. Date: 01/12/2011</p>

Figure 11 – Information related to a work package (participants, deliverables, milestones)

Another important action performed by the WP Leaders is to include the names of the colleagues contributing to the specific Work Packages (see **Figure 12**) by clicking their names in the staff list.



The screenshot shows the CO2CARE website interface. At the top right, there are links for 'The Project' and 'Partners'. The main heading is 'Welcome to CO2Care website'. Below this, a breadcrumb trail indicates the current location: 'you are in: Home > ... > WP1 > Staff'. The main content area is titled 'Staff - WP1 - Current practices and regulatory framework'. It lists three institutions: GFZ, Imperial College of Science, Technology and Medicine, and IFP - Institut Français du Pétrole. For each institution, there is a table with columns for 'Coordinator' and 'Participant'. The 'Participant' column contains checkboxes, some of which are checked, indicating participation in the specific work package. On the right side, there is a 'Work packages' menu with links for WP1 through WP7, and a 'netScience Tools' menu with links for Dashboard, Work packages, Documents, Send Email, and Config.

Coordinator	Participant	Name
<input type="radio"/>	<input checked="" type="checkbox"/>	de Lucia Marco
<input type="radio"/>	<input type="checkbox"/>	Henninges Jan
<input type="radio"/>	<input type="checkbox"/>	Heumann Arnd
<input type="radio"/>	<input checked="" type="checkbox"/>	Kempka Thomas
<input type="radio"/>	<input type="checkbox"/>	Klein Elisa
<input type="radio"/>	<input checked="" type="checkbox"/>	Kühn Michael
<input type="radio"/>	<input type="checkbox"/>	Kummerow Juliane
<input type="radio"/>	<input type="checkbox"/>	Lueth Stefan
<input type="radio"/>	<input type="checkbox"/>	Martens Sonja
<input type="radio"/>	<input type="checkbox"/>	Pilz Peter
<input type="radio"/>	<input type="checkbox"/>	Spangenberg Eric
<input type="radio"/>	<input type="checkbox"/>	Wipki Mario

Coordinator	Participant	Name
<input checked="" type="radio"/>	<input checked="" type="checkbox"/>	Durucan Sevket
<input type="radio"/>	<input checked="" type="checkbox"/>	Korre Anna
<input type="radio"/>	<input checked="" type="checkbox"/>	Shi Ji-Quan

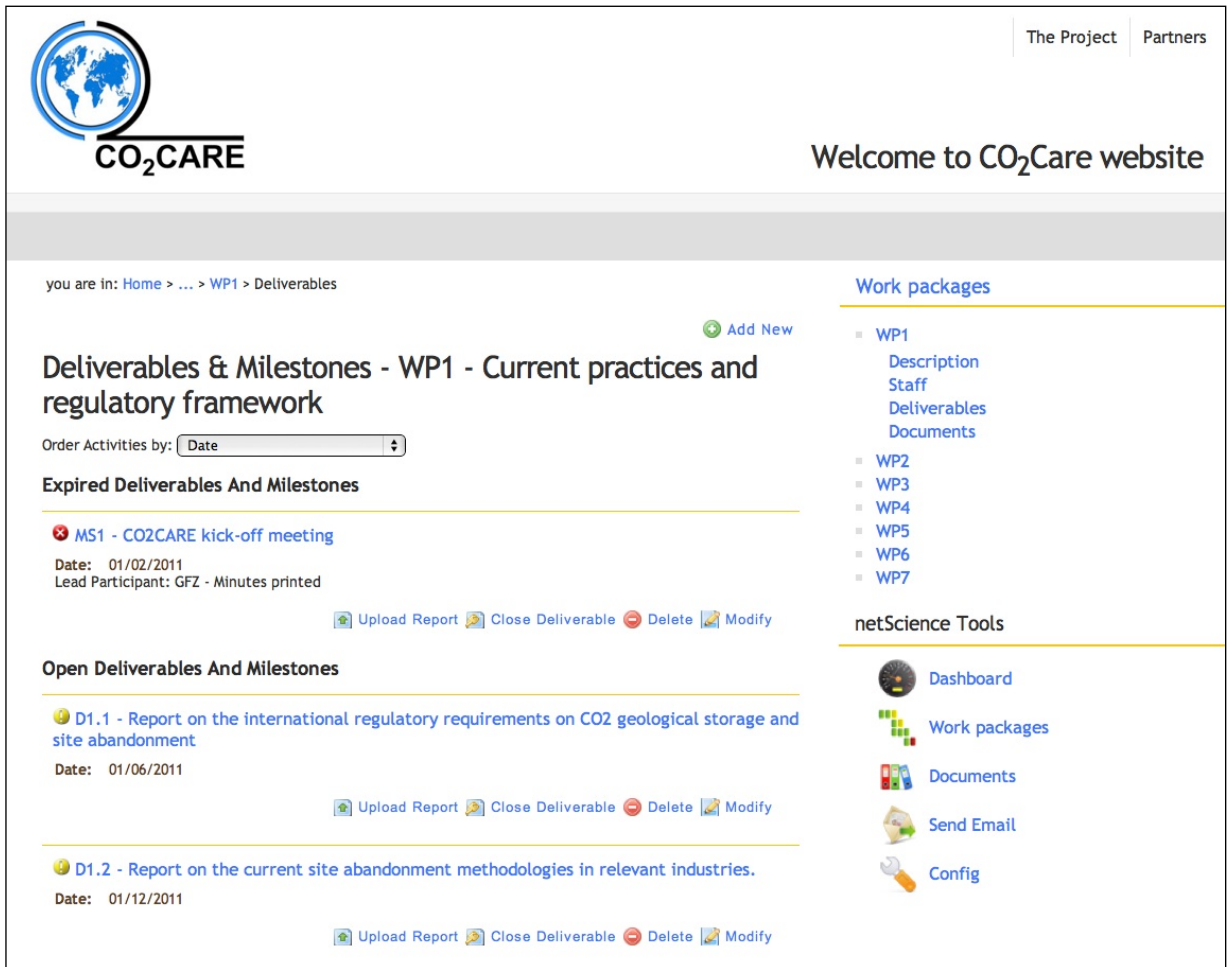
Coordinator	Participant	Name
<input type="radio"/>	<input type="checkbox"/>	Boulharts Habiba
<input type="radio"/>	<input type="checkbox"/>	Brusselle Dupend Nadège
<input type="radio"/>	<input type="checkbox"/>	Cangémi Laurent
<input type="radio"/>	<input type="checkbox"/>	Deflandre Jean-Pierre
<input type="radio"/>	<input type="checkbox"/>	Estublier Audrey
<input type="radio"/>	<input type="checkbox"/>	Hutin Emmanuelle
<input type="radio"/>	<input type="checkbox"/>	Trenty Laurent
<input type="radio"/>	<input type="checkbox"/>	Valet Gaële
<input type="radio"/>	<input type="checkbox"/>	Vincké Olivier

Figure 12 – List of the people involved in the project (a mark under “Participant” means the participation to specific work package)

When a participant is added to a specific WP, this information is also automatically updated by the system in the participant’s personal profile page (see **Figure 7**, at the bottom).

4.4 Deliverables

An important section of the website is devoted to the management of the deliverables. These are listed in the second level right menu, under **WPs** (see **Figure 13**).




The screenshot shows the CO₂CARE website interface. At the top left is the CO₂CARE logo. At the top right are links for 'The Project' and 'Partners'. Below the logo, it says 'Welcome to CO₂Care website'. The main content area shows the breadcrumb 'you are in: Home > ... > WP1 > Deliverables' and an 'Add New' button. The title is 'Deliverables & Milestones - WP1 - Current practices and regulatory framework'. There is a dropdown menu for 'Order Activities by: Date'. The page is divided into two sections: 'Expired Deliverables And Milestones' and 'Open Deliverables And Milestones'. Under 'Expired', there is one entry: 'MS1 - CO2CARE kick-off meeting' with a date of 01/02/2011 and lead participant 'GFZ - Minutes printed'. Under 'Open', there are two entries: 'D1.1 - Report on the international regulatory requirements on CO2 geological storage and site abandonment' (date: 01/06/2011) and 'D1.2 - Report on the current site abandonment methodologies in relevant industries.' (date: 01/12/2011). Each entry has icons for 'Upload Report', 'Close Deliverable', 'Delete', and 'Modify'. On the right sidebar, there is a 'Work packages' menu with links for WP1 through WP7, and a 'netScience Tools' menu with links for Dashboard, Work packages, Documents, Send Email, and Config.

Figure 13 – List of the deliverables of a Work Package

Information about each deliverable and milestone is added by filling in a specific form (as showed in **Figure 14**). Besides the title, the deadline, and the description, it is possible to define their *typology* (milestones or deliverables), *nature* (report, prototype, other) and *dissemination level* (public, restricted, confidential).

It is possible for each deadline to choose a date for an automatic email alert to the WP participants and to the WP Leader. If a deliverable is not uploaded within the due date, another message is sent to the project coordinator.



[The Project](#) | [Partners](#)

Welcome to CO₂Care website

you are in: [Home](#) > ... > [WP1](#) > Deliverables

Modify Deliverable & Milestones

TITLE:

DATE:
e.g.: 18/07/2005

ALERT:

Description

B I U ☂ 📄 📁 🔄 ↶ ↷ ✖ ✕ 📄 HTML

Typology

DELIVERABLE

MILESTONE

NATURE:

DISSEMINATION LEVEL:

* Required Information

Work packages

- ▣ WP1
 - [Description](#)
 - [Staff](#)
 - [Deliverables](#)
 - [Documents](#)
- ▣ WP2
- ▣ WP3
- ▣ WP4
- ▣ WP5
- ▣ WP6
- ▣ WP7

netScience Tools

- [Dashboard](#)
- [Work packages](#)
- [Documents](#)
- [Send Email](#)
- [Config](#)

Figure 14 – Form to upload information related to deliverable / milestone

All the participants in the project may read and download all the deliverables of all WPs, but the system allows the uploading of a deliverable only to the participants involved in the assigned WP (see **Figure 15**).

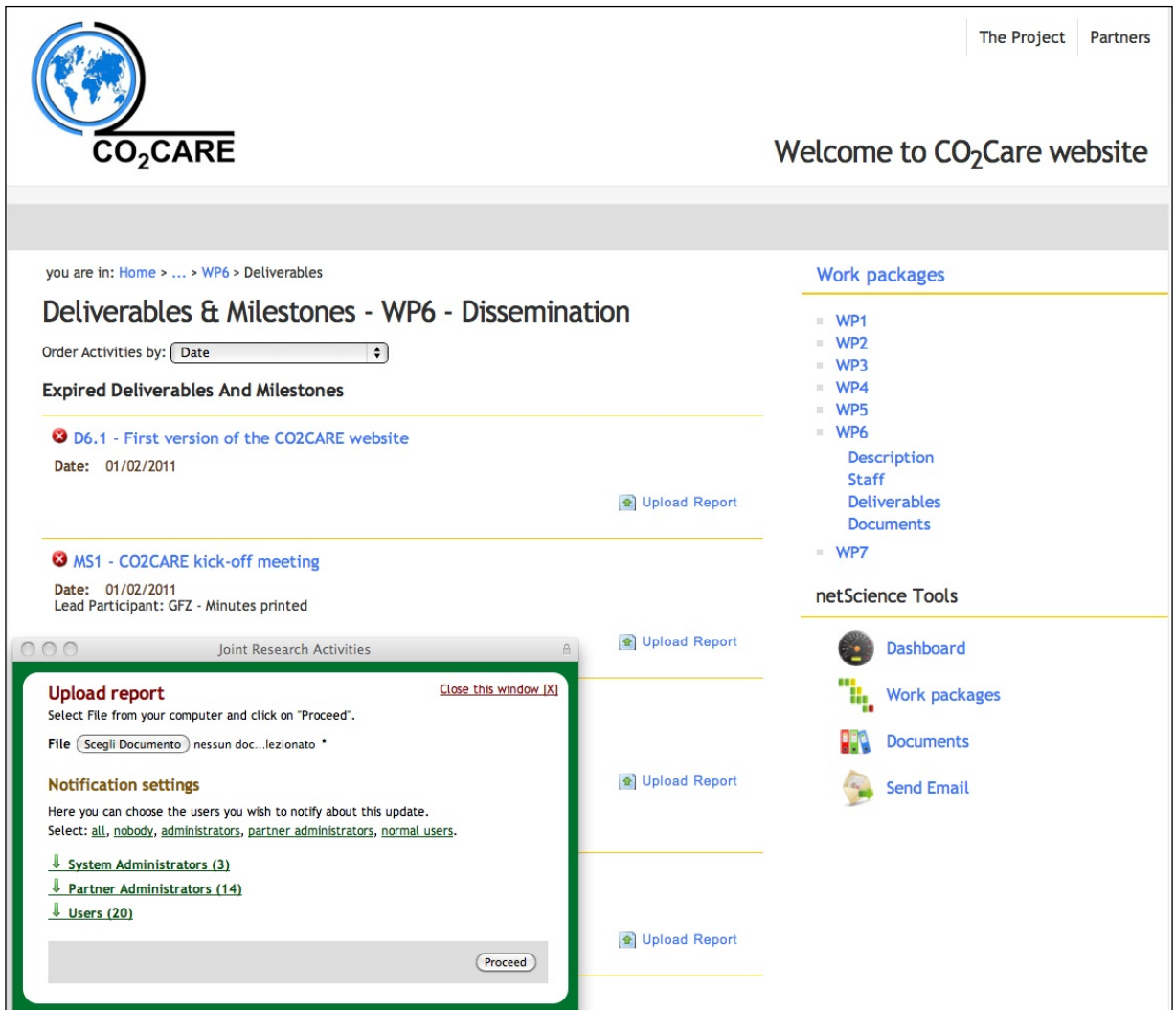


Figure 15 – Window for uploading reports (deliverables)

When the WP Leader decides that an uploaded deliverable is in its final form, he/she can mark such deliverable as “Closed”. From this moment, no new version may be uploaded. If a WP participant wants to modify an uploaded and closed deliverable, he/she has to refer to the WP Leader, who has the authority to “Open again” the deliverable and allow a new upload.

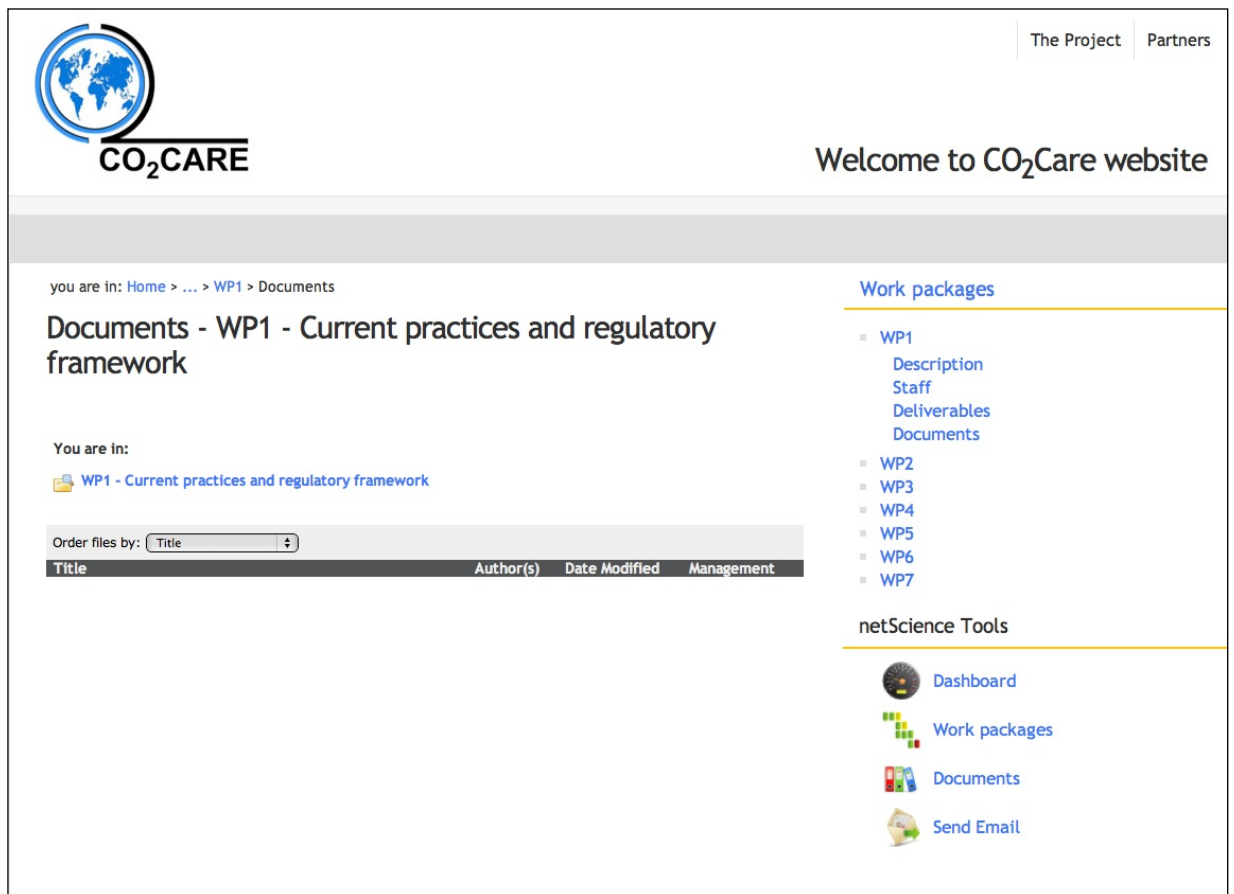
The deliverables and milestones are marked with coloured points: yellow if still due, red if expired and green if uploaded.

4.5 File Area for the Work Packages

Each work package has a dedicated area for uploading/downloading files. This area (see **Figure 16**) may be organised by adding/deleting imbedded folders and is intended as a joint-working area for the WP participants.

In principle, all the files are visible to all the project participants.

As an exception (not suggested, but in some case considered as necessary for storing data that may be made available only to the WP participants), the WP Leader can create folders that are visible and accessible only to some participants.



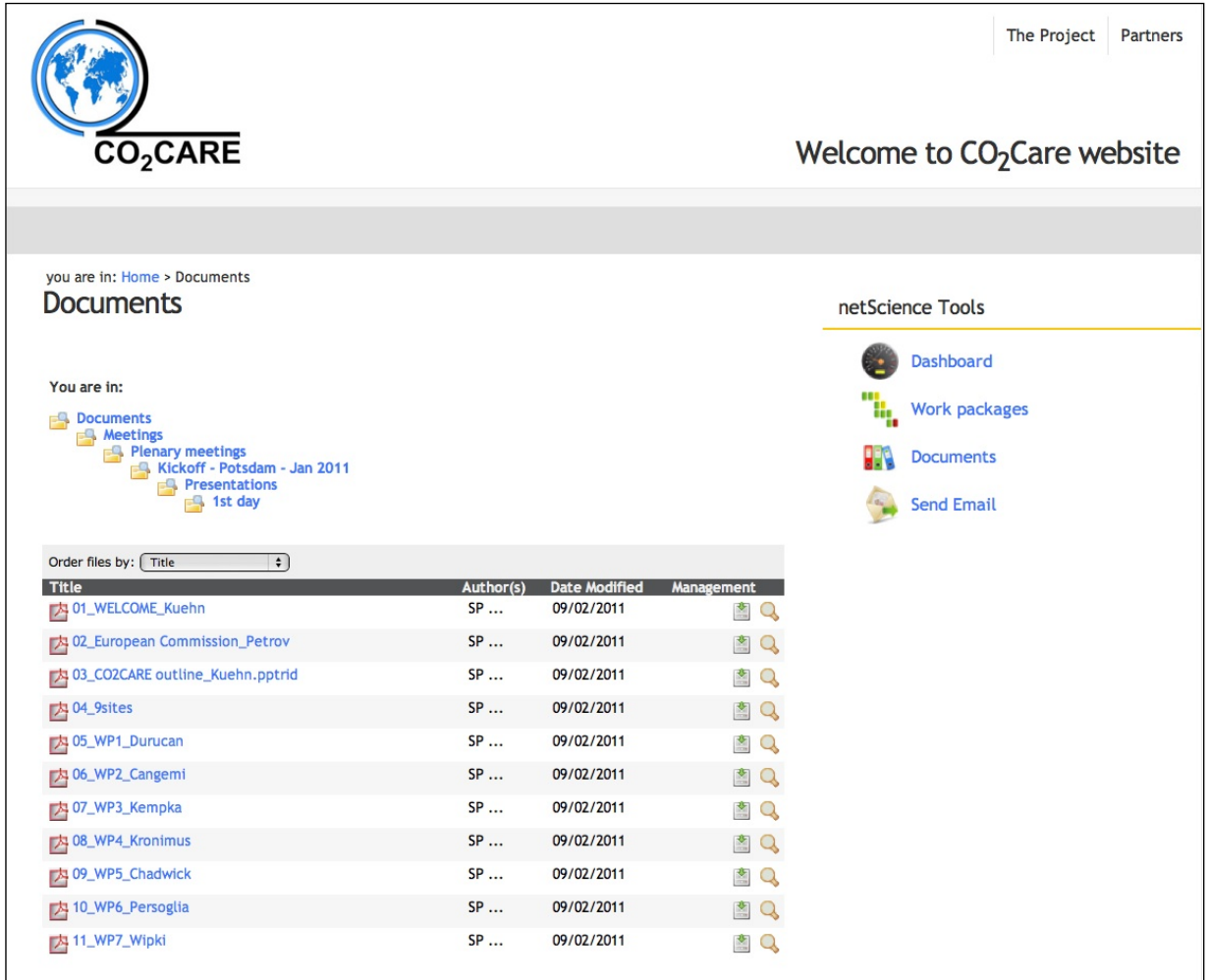
The screenshot shows the CO2CARE website interface. At the top left is the CO2CARE logo. At the top right are navigation links for 'The Project' and 'Partners'. Below the logo, the text 'Welcome to CO2Care website' is displayed. A breadcrumb trail indicates the user is in 'Home > ... > WP1 > Documents'. The main heading is 'Documents - WP1 - Current practices and regulatory framework'. Below this, there is a 'You are in:' section with a folder icon and the text 'WP1 - Current practices and regulatory framework'. A sorting dropdown menu is set to 'Title'. Below the sorting menu is a table header with columns: 'Title', 'Author(s)', 'Date Modified', and 'Management'. On the right side, there is a 'Work packages' section with a list of links for WP1 through WP7. Underneath, there is a 'netScience Tools' section with icons and links for 'Dashboard', 'Work packages', 'Documents', and 'Send Email'.

Figure 16 – File area for a specific work package

4.6 File Area for the Project

In addition to the various WP File Areas, there is also a Project File Area (see an example in **Figure 17**). Each file may be downloaded and it is possible to know when it has been uploaded/changed and by whom.

For example, the Project File Area has been used for storing the presentations of the first Kick-off meeting of the project.



The screenshot shows the CO2CARE website interface. At the top left is the CO2CARE logo. At the top right are navigation links for 'The Project' and 'Partners'. Below the logo, the text 'Welcome to CO₂Care website' is displayed. The main content area shows the breadcrumb 'you are in: Home > Documents' and the heading 'Documents'. A 'You are in:' navigation tree shows the path: Documents > Meetings > Plenary meetings > Kickoff - Potsdam - Jan 2011 > Presentations > 1st day. On the right, there is a 'netScience Tools' section with links for Dashboard, Work packages, Documents, and Send Email. Below this is a table of documents with columns for Title, Author(s), Date Modified, and Management. The table lists 11 documents, all dated 09/02/2011.

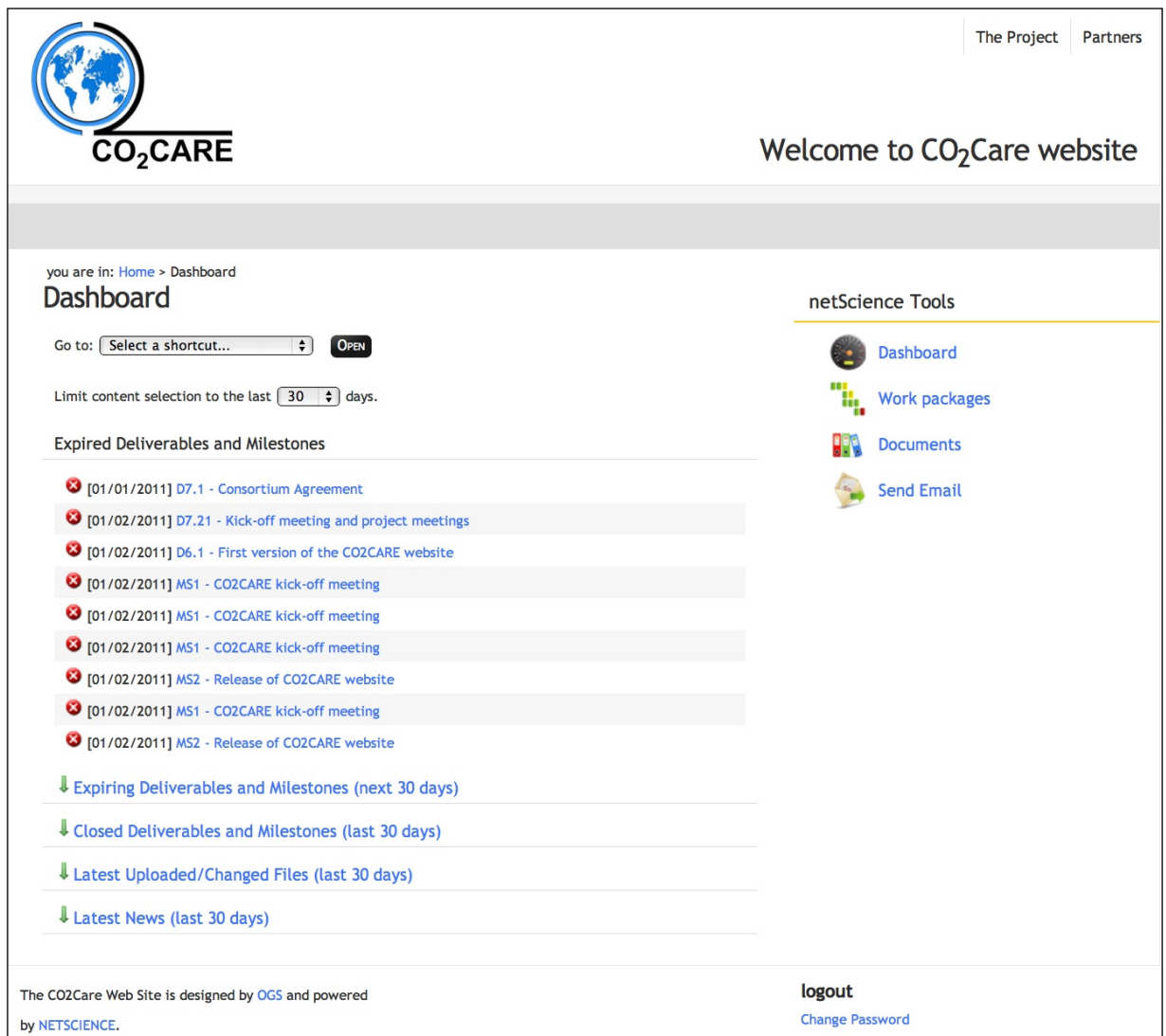
Title	Author(s)	Date Modified	Management
01_WELCOME_Kuehn	SP ...	09/02/2011	[Icons]
02_European Commission_Petrov	SP ...	09/02/2011	[Icons]
03_CO2CARE outline_Kuehn.ppt	SP ...	09/02/2011	[Icons]
04_9sites	SP ...	09/02/2011	[Icons]
05_WP1_Durucan	SP ...	09/02/2011	[Icons]
06_WP2_Cangemi	SP ...	09/02/2011	[Icons]
07_WP3_Kempka	SP ...	09/02/2011	[Icons]
08_WP4_Kronimus	SP ...	09/02/2011	[Icons]
09_WP5_Chadwick	SP ...	09/02/2011	[Icons]
10_WP6_Persoglia	SP ...	09/02/2011	[Icons]
11_WP7_Wipki	SP ...	09/02/2011	[Icons]

Figure 17 – Example of a Project File Area

4.7 Tools – Dashboard


In order to simplify the use of the website, a menu named **netScience Tools** contains shortcuts to a series of web pages.

The **Dashboard** appears at every login (see **Figure 18**). This board shows all the more recent changes in the website contents, the expired, expiring and closed deliverables and milestones, the latest uploaded changed files and the latest news. Each section (see **Figure 19**) may be expanded, by clicking on its title.



The screenshot shows the CO2CARE website dashboard. At the top left is the CO2CARE logo. To the right are links for 'The Project' and 'Partners'. A welcome message reads 'Welcome to CO2Care website'. Below this, a breadcrumb trail indicates 'you are in: Home > Dashboard'. The main heading is 'Dashboard'. There is a search bar for shortcuts with an 'OPEN' button and a filter for 'Limit content selection to the last 30 days'. A list of 'Expired Deliverables and Milestones' includes items like '[01/01/2011] D7.1 - Consortium Agreement' and '[01/02/2011] D6.1 - First version of the CO2CARE website'. Below this are expandable sections for 'Expiring Deliverables and Milestones (next 30 days)', 'Closed Deliverables and Milestones (last 30 days)', 'Latest Uploaded/Changed Files (last 30 days)', and 'Latest News (last 30 days)'. On the right, a 'netScience Tools' menu offers shortcuts to 'Dashboard', 'Work packages', 'Documents', and 'Send Email'. At the bottom, there is a footer with design credits and a 'logout' link.

Figure 18 – The Dashboard



[The Project](#) | [Partners](#)

Welcome to CO₂Care website

you are in: [Home](#) > [Dashboard](#)

Dashboard

Go to:

Limit content selection to the last days.

Expired Deliverables and Milestones

- ✘ [01/02/2011] [D6.1 - First version of the CO2CARE website](#)
- ✘ [01/02/2011] [MS1 - CO2CARE kick-off meeting](#)
- ✘ [01/02/2011] [MS2 - Release of CO2CARE website](#)

[↓ Expiring Deliverables and Milestones \(next 30 days\)](#)

[↓ Closed Deliverables and Milestones \(last 30 days\)](#)

[↑ Latest Uploaded/Changed Files \(last 30 days\)](#)

- 📄 [10/02/2011] [Session 2_Cangemi](#)
- 📄 [10/02/2011] [2nd day_Kuehn](#)
- 📄 [10/02/2011] [06_WP2_Cangemi](#)
- 📄 [10/02/2011] [10_WP6_Persoglia](#)
- 📄 [10/02/2011] [09_WP5_Chadwick](#)
- 📄 [10/02/2011] [08_WP4_Kronimus](#)
- 📄 [10/02/2011] [07_WP3_Kempka](#)
- 📄 [10/02/2011] [05_WP1_Durucan](#)
- 📄 [10/02/2011] [04_9sites](#)
- 📄 [10/02/2011] [03_CO2CARE outline_](#)
- 📄 [10/02/2011] [02_European Commiss](#)
- 📄 [10/02/2011] [01_WELCOME_Kuehn](#)
- 📄 [10/02/2011] [Session 3_Persoglia](#)
- 📄 [09/02/2011] [Session 1_Durucan](#)
- 📄 [09/02/2011] [11_WP7_Wipki](#)
- 📄 [01/02/2011] [Agenda](#)

[↓ Latest News \(last 30 days\)](#)

netScience Tools





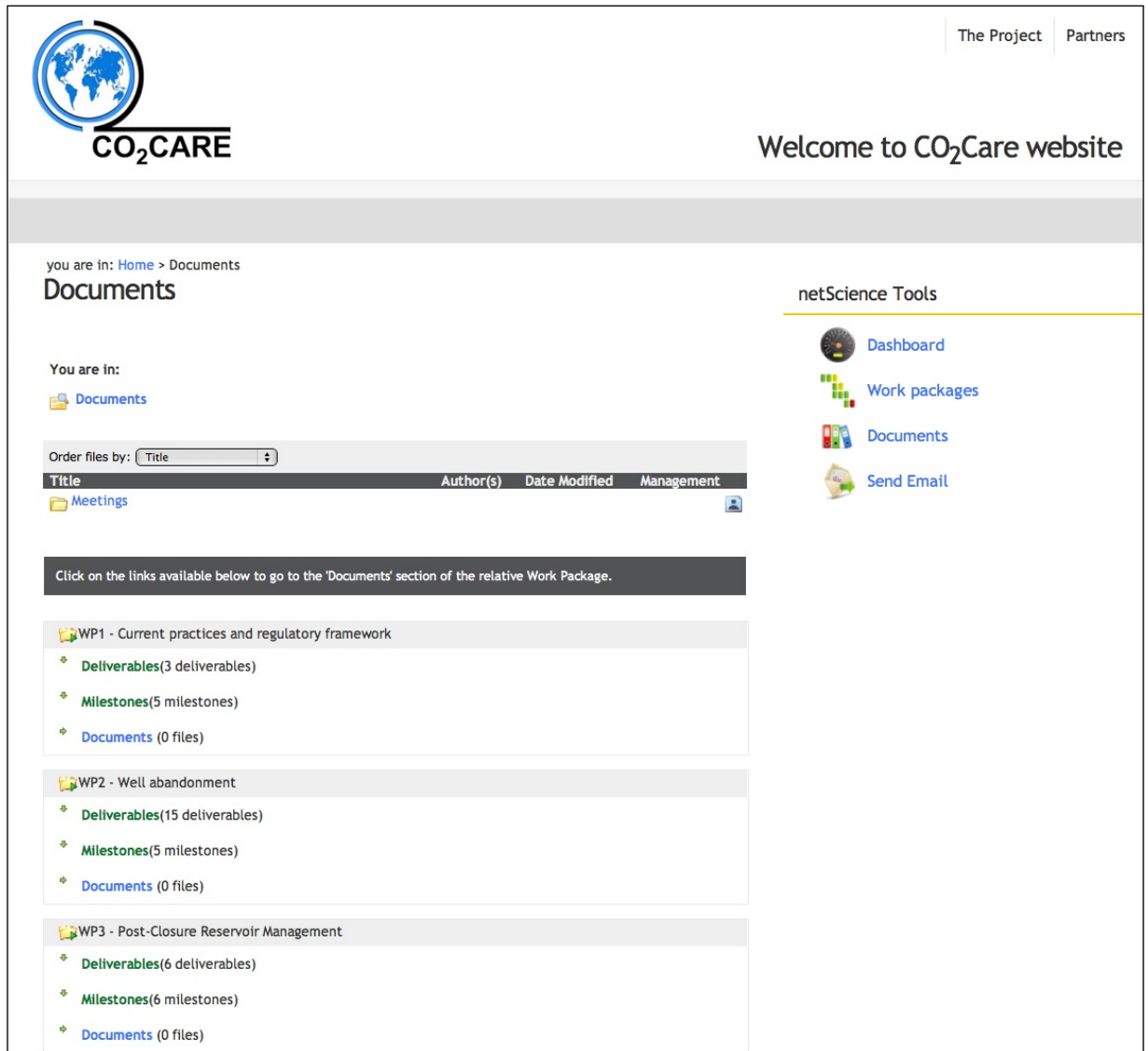
-  [Dashboard](#)
-  [Work packages](#)
-  [Documents](#)
-  [Send Email](#)

Figure 19 – The Dashboard, with a section expanded

4.8 Tools – Documents

Documents gives access to a summary list of all the uploaded files (see **Figure 20** and **Figure 21**).



The screenshot shows the 'Documents' page of the CO₂CARE website. At the top left is the CO₂CARE logo. At the top right are navigation links for 'The Project' and 'Partners'. Below the logo is a 'Welcome to CO₂Care website' message. The main content area shows the breadcrumb 'you are in: Home > Documents' and the title 'Documents'. Below this is a 'You are in:' section with a 'Documents' link. A search bar is present with 'Order files by: Title'. A table header is visible with columns: Title, Author(s), Date Modified, and Management. Below the table is a 'Meetings' link. A dark grey box contains the instruction: 'Click on the links available below to go to the 'Documents' section of the relative Work Package.' Three work packages are listed: WP1 - Current practices and regulatory framework (3 deliverables, 5 milestones, 0 documents), WP2 - Well abandonment (15 deliverables, 5 milestones, 0 documents), and WP3 - Post-Closure Reservoir Management (6 deliverables, 6 milestones, 0 documents). On the right side, there is a 'netScience Tools' section with links for Dashboard, Work packages, Documents, and Send Email.

Figure 20 – The project documents (Project File Area, WP deliverables, milestones and documents)

By clicking on Deliverables, Milestones or Documents, the corresponding section is expanded (see **Figure 21**).

Click on the links available below to go to the 'Documents' section of the relative Work Package.

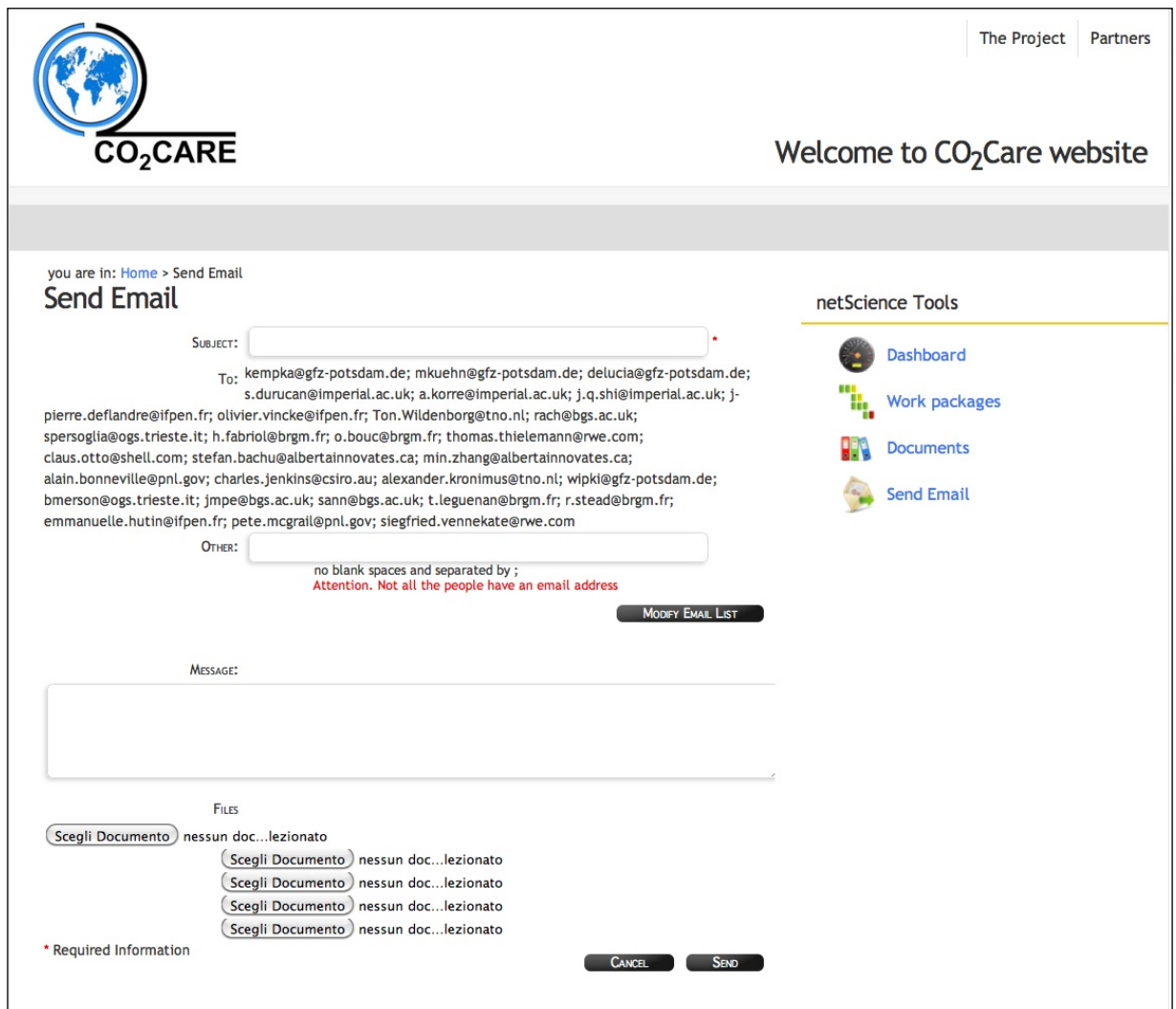
- WP1 - Current practices and regulatory framework
 - Deliverables(3 deliverables)
 - D1.1 - Report on the international regulatory requirements on CO2 geological storage and site abandonment
Expected Delivery Date:01/06/2011
 - D1.2 - Report on the current site abandonment methodologies in relevant industries.
Expected Delivery Date:01/12/2011
 - D1.3 - Database of first abandoned CCS/CO2-exposed wells
Expected Delivery Date:01/06/2012
 - Milestones(5 milestones)
 - Documents (0 files)
- WP2 - Well abandonment
 - Deliverables(15 deliverables)
 - Milestones(5 milestones)
 - Documents (0 files)
- WP3 - Post-Closure Reservoir Management
 - Deliverables(6 deliverables)
 - Milestones(6 milestones)
 - Documents (0 files)

Figure 21 – The project documents (Project File Area, WP Deliverables, Milestones and Documents), with the section Deliverables expanded for WP1

4.9 Tools – E-mails

Another useful tool is **Send Email**. It allows the user to prepare and to send emails to all the project participants or to the persons involved in specific WPs. Their email addresses are collected automatically from the Staff database (see **Figure 22**).

Up to five files may be attached to the message text.

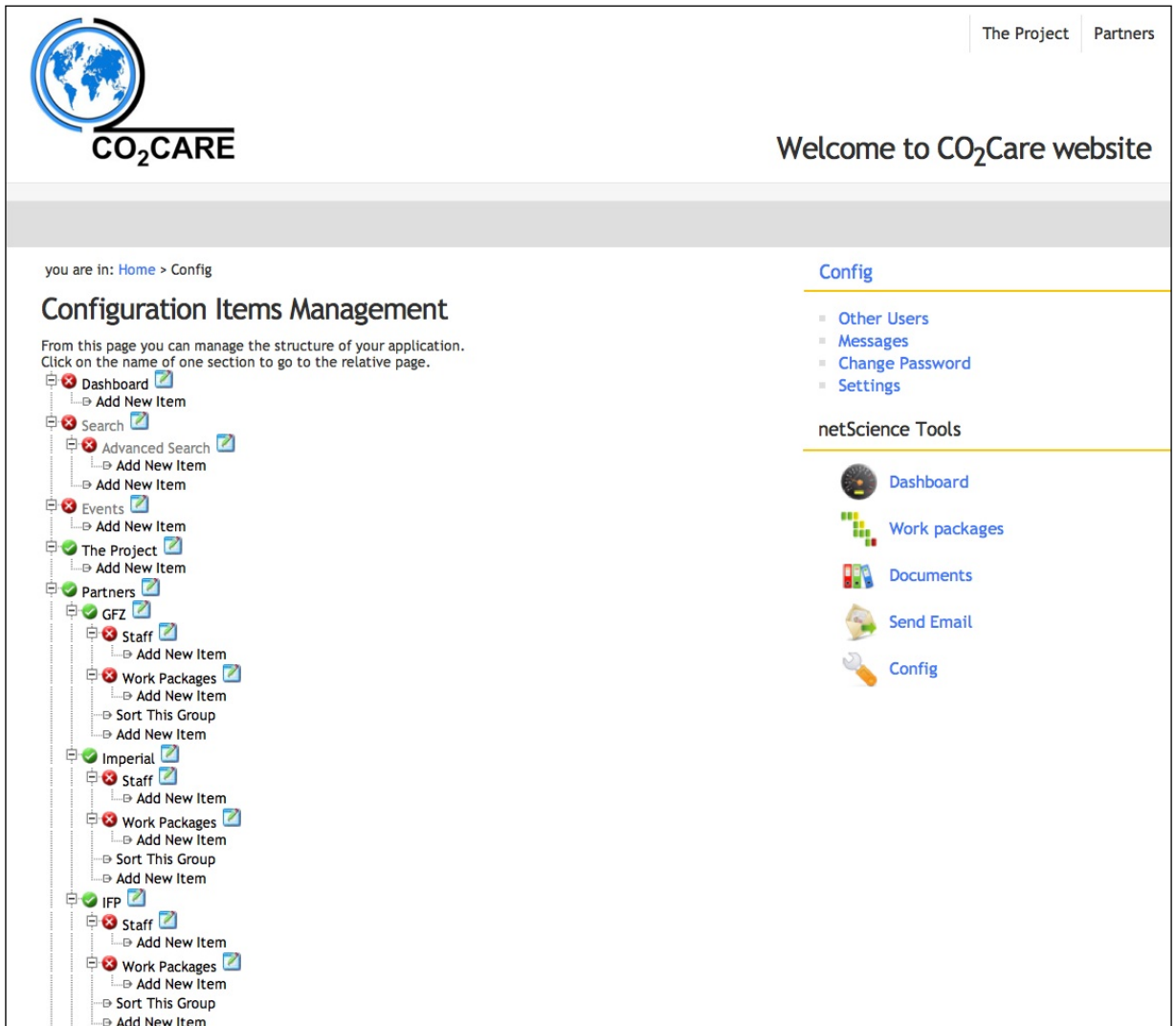


The screenshot shows the 'Send Email' interface on the CO₂CARE website. At the top left is the CO₂CARE logo. At the top right are navigation links for 'The Project' and 'Partners'. Below the logo is a 'Welcome to CO₂Care website' message. The main content area is titled 'Send Email' and includes a breadcrumb 'you are in: Home > Send Email'. The 'SUBJECT:' field is empty. The 'TO:' field contains a long list of email addresses: kempka@gfz-potsdam.de; mkuehn@gfz-potsdam.de; delucia@gfz-potsdam.de; s.durucan@imperial.ac.uk; a.korre@imperial.ac.uk; j.q.shi@imperial.ac.uk; j-pierre.deflandre@ifpen.fr; olivier.vincke@ifpen.fr; Ton.Wildenborg@tno.nl; rach@bgs.ac.uk; spersoglia@ogs.trieste.it; h.fabriol@brgm.fr; o.bouc@brgm.fr; thomas.thielemann@rwe.com; claus.otto@shell.com; stefan.bachu@albertainnovates.ca; min.zhang@albertainnovates.ca; alain.bonneville@pnl.gov; charles.jenkins@csiro.au; alexander.kronimus@tno.nl; wipki@gfz-potsdam.de; bmerson@ogs.trieste.it; jmpe@bgs.ac.uk; sann@bgs.ac.uk; t.leguenan@brgm.fr; r.stead@brgm.fr; emmanuelle.hutin@ifpen.fr; pete.mcgrail@pnl.gov; siegfried.vennekate@rwe.com. The 'OTHER:' field is empty. Below the 'OTHER:' field is a note: 'no blank spaces and separated by ; Attention. Not all the people have an email address'. There is a 'MODIFY EMAIL LIST' button. The 'MESSAGE:' field is empty. Below the message field is a 'FILES' section with five file selection buttons, each labeled 'Scegli Documento' and followed by the text 'nessun doc...lezionato'. At the bottom left is a '* Required Information' label. At the bottom right are 'CANCEL' and 'SEND' buttons. On the right side of the interface, there is a 'netScience Tools' section with links to 'Dashboard', 'Work packages', 'Documents', and 'Send Email'.

Figure 22 – An example of email under preparation, with email addresses recovered from the Staff database

4.10 Tools – Configuration

The structure of the website pages and the activated tools are defined in a parametric form by “building up” their references in a kind of “website tree”. Through the **Config** tool, elements in this tree may be added or deleted. Coloured points indicate if they are visible in the open area of the website (green colour) or just in the restricted area (red colour, as in **Figure 23**). This tool is accessible only by the System Administrators.



you are in: [Home](#) > [Config](#)

Configuration Items Management

From this page you can manage the structure of your application. Click on the name of one section to go to the relative page.

- [-] Dashboard
 - [-] Add New Item
- [-] Search
 - [-] Advanced Search
 - [-] Add New Item
 - [-] Add New Item
- [-] Events
 - [-] Add New Item
- [+] The Project
 - [-] Add New Item
- [+] Partners
 - [+] GFZ
 - [-] Staff
 - [-] Add New Item
 - [-] Work Packages
 - [-] Add New Item
 - [-] Sort This Group
 - [-] Add New Item
 - [+] Imperial
 - [-] Staff
 - [-] Add New Item
 - [-] Work Packages
 - [-] Add New Item
 - [-] Sort This Group
 - [-] Add New Item
 - [+] IFP
 - [-] Staff
 - [-] Add New Item
 - [-] Work Packages
 - [-] Add New Item
 - [-] Sort This Group
 - [-] Add New Item

Config

- [-] Other Users
- [-] Messages
- [-] Change Password
- [-] Settings

netScience Tools

- [-] Dashboard
- [-] Work packages
- [-] Documents
- [-] Send Email
- [-] Config

Figure 23 – The configuration tree of the website pages and tools

5. Future implementations

The present website permits the project participants to:

- update their own profile;
- access to the “Documents” and download the files already uploaded (e.g. the presentations of the Kick-off meeting);
- upload/download deliverables;
- send emails through the tools that automatically recover the addresses of the WP participants.

In the coming months, the efforts will concentrate on the public part of the website:

- a graphic layout based on the project logo will be created;
- new pages explaining the aims and the activities of the project will be added with the contributions from the participants;
- the achieved results will be published, and this implies a continuous update of the website contents;
- it will be possible to publish news and to organise events;
- publications and brochures produced in the project will be accessible in the public area and organized by title, author, and publication date;
- it will be possible for the visitors to pose questions using the “Contact us” tool and receive answers from the experts.