

Recycling carbon dioxide in the cement industry to produce added-value additives: a step towards a CO₂ circular economy

Deliverable D8.1

Project Website

WP 8 - Dissemination. Communication, training & education

Version 0.1

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Revision History

Author Name, Partner short name	Description	Date
Francesco Piacentini & Nicholas Dring, IIT	Website set up	31/08/2017
Francesco Piacentini, IIT	V0.1, draft deliverable	11/09/2017
IIT Projects Office	V0.1 review	13/09/2017
Samir Bensaid, POLITO	V0.1 final review and approval	19/09/2017

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Introduction

This report is submitted as D8.1 “Project website”. It provides a brief overview of the RECODE public website and platform. For each section, the report provides a description of main features and related content; screenshots for each website section are also included.

1. RECODE website and platform

The RECODE website will serve as a key tool for internal and external communication and knowledge transfer.

This website is composed of a public and private section.

The public section will be one of the main tools of the project communication and dissemination strategy. Specifically, it aims at providing detailed up-to-date information about the project as well as regularly updated news, publications, multi-media content and contact information about consortium members.

The private section “RECODE platform” will serve as a working space for internal consortium collaboration and documents distribution.

The RECODE project website is available at the following link: <http://www.recodeh2020.eu/> and has been published on occasion of the project kick-off meeting.

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1.1 Recode public website

1.1.1 Website design

The RECODE public website will be the main source of information and contact point for parties interested in the project background and results. It will be one of the key tools of the project communication and dissemination strategy. As such, the website targets the research community, industrial stakeholders as well as the general public.

The website provides updated information on main project activities and achievements, as well as comprehensive information about the universities, research centres, SMEs and industrial partners taking part in the action.

1.1.1.1 Recode design principles

The RECODE website has been designed and will be further implemented based on core web design good practices.

The website has been built in line with the project visual identity. Specifically, the website colours are aligned with the visual elements of the RECODE logo. In addition, contrast, colour palette, text font and layout have been selected in order to ensure readability.

The images featured in the RECODE website will be thoughtfully selected to be in line with RECODE visual identity and be reflective of the project technological challenges.

Easy navigation and access to content is enhanced through a detailed navigation bar and appropriate links to website subsections. The user experience has been taken into account to facilitate intuitive navigation and identification of key information and concepts based on the principles of simplicity and consistency. Particularity, content vertical scrolling has been limited in order to allow the visitor to visualise all key information at once.

User experience will be enhanced through extensive multi-media resources featuring project activities, case studies and technological results.

Finally, the website is responsive, being accessible from multiple devices (phone, tablet, desktop PC) and different screen sizes.

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1.1.1.2 RECODE website general structure

The main navigation bar is organised in seven different sections, which will be described in the next paragraphs.

- **Home**
- **Project**
- **Results**
- **Consortium**
- **News and Gallery**
- **Contacts**
- **Private**

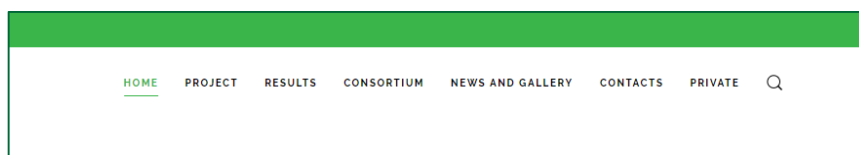


Figure 1: home page navigation bar

In line with GA provisions, the EU funding acknowledgment is displayed at the bottom of each page, together with disclaimer excluding EU responsibility.



Figure 2: footer at the bottom of each page

Consistently with RECODE objectives and thematic area, the footer on each page includes the logo and link to the SPIRE project. Linking the RECODE website to the SPIRE community will contribute to an integrated approach to communication by SPIRE funded projects. Moreover, it will greatly enhance the visibility of RECODE results among relevant practitioners.



Figure 3 SPIRE Logo

1.1.2 “Home” section

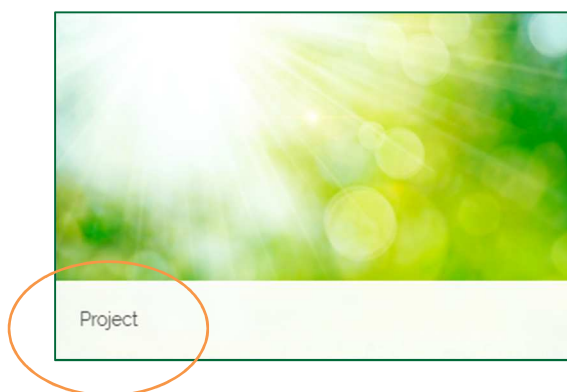
The “Home” section is intended to provide an overview of the project and its concept. While at early project stage, general pictures are shown, relevant and focused pictures related to project activities will be added throughout project implementation.

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Figure 4: Home page

The page layout has been designed in order to allow visitors to easily browse through the website content and identify information relevant to them. In fact, each picture/tab contains a link to the relevant website section, as shown below:



1.1.3 “Project” section

The “Project” section includes more information about the RECODE background, objectives and impact. It summarizes these key elements in order to allow visitor to gain insight into key concepts behind the project. This section will be constantly updated during the project implementation. Specifically, the page will feature links to project publishable summaries, where main activities and key milestones achieved will be described. In addition, it will include a “download” section where visitors can download communication and dissemination materials produced (e.g. brochure and flyers).

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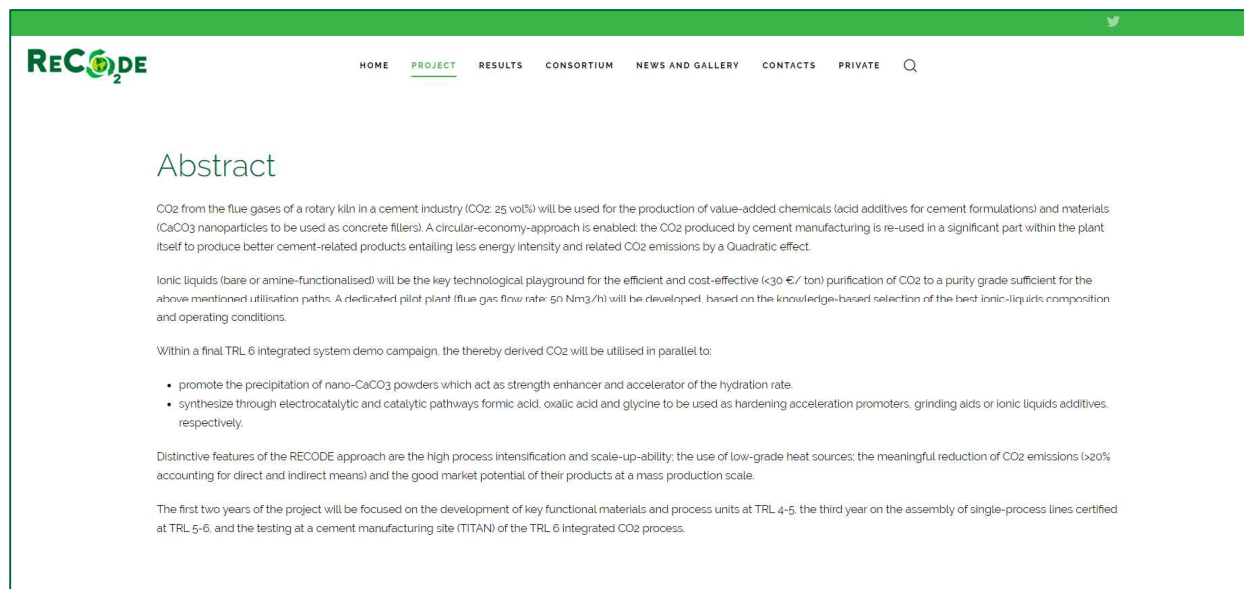


Figure 5: project overview page

1.1.4 “Results” section

The “Results” section is intended to provide visitors with a comprehensive overview of project achievements and results. The section is currently structured in the following subpages: “deliverables and publications”, “conferences and events” and “Frequently Asked Questions (FAQ)”. As soon as the first results will become available, the website will inform stakeholders about what results were achieved. Additional information and subpages related to training activities, virtual plant tours, and other project related activities will be added at later stage.

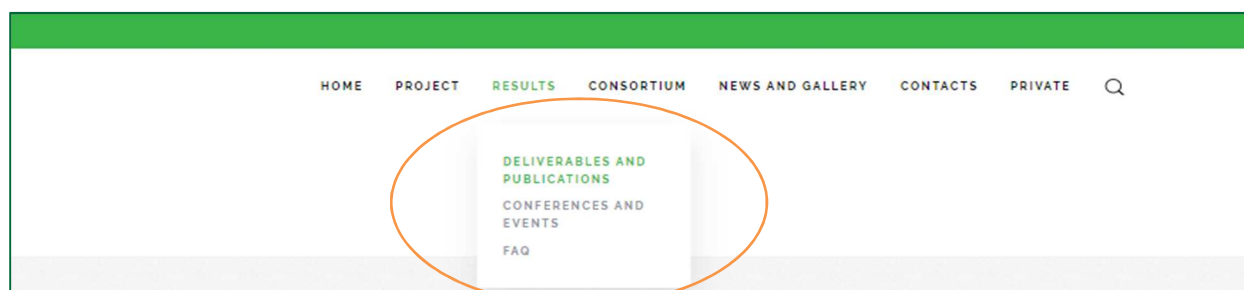


Figure 6 Results sub-sections

1.1.4.1 Deliverables and publications

Project public deliverables and project publications will be uploaded on this page along the project implementation. Peer-reviewed publications in Open Access will be directly downloadable while key relevant information will be included for other publications, including links for additional details.

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1.1.4.2 Conferences and events

This subpage will provide information on conferences, events and other project related activities (including project periodical meetings).

1.1.4.3 Frequently Asked Questions (FAQ)

The subpage features a Frequently Asked Questions (FAQ) board, where visitors can post questions related to the project and its activities. Replies will be permanently available on the FAQ page. Questions and answers reported in the image below are to be considered as preliminary samples. IIT Project Management Team will upload relevant questions and answers along the project evolution.

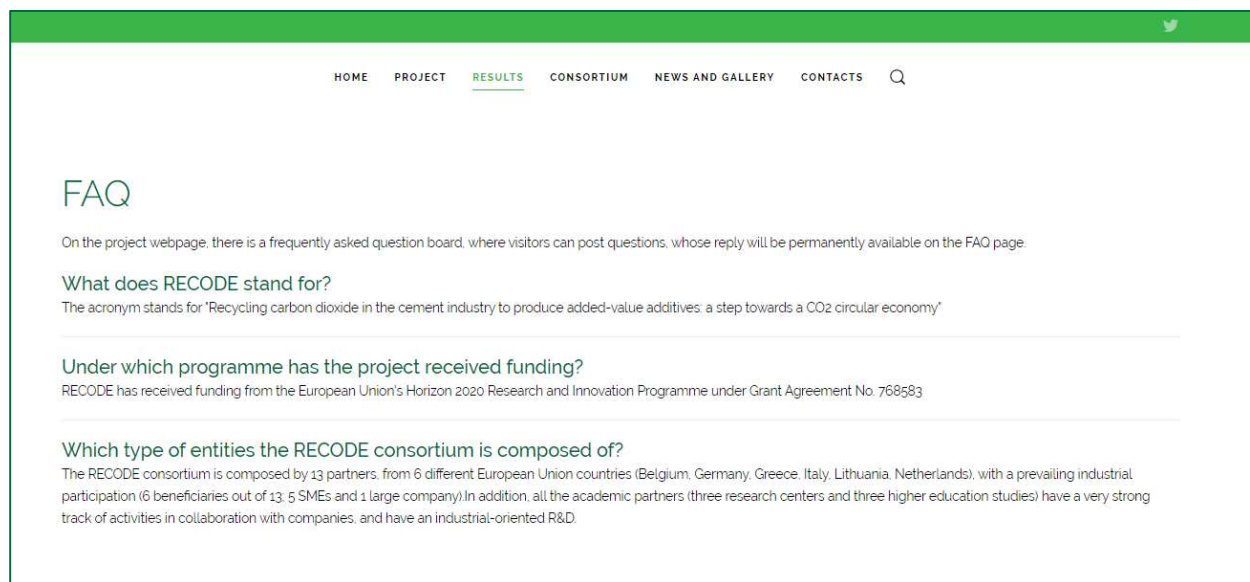


Figure 7: Frequently Asked Questions Section (FAQ)

1.1.5 “Consortium” section

1.1.5.1 Interactive map of the consortium

This page will feature an interactive map (based on the image below), which will allow visitors to browse the members of the consortium based on the country of origin and the type of institution.

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Figure 8: Map of consortium members

1.1.5.2 List of partners and key information

The page includes a list of consortium members with key relevant information (e.g. logo, name, type of entity, country). Detailed information on each partner is available by clicking on each partner tab.














PARTNER	SHORT NAME	TYPE	COUNTRY	INFO
 ISTITUTO ITALIANO DI TECNOLOGIA Fondazione Istituto Italiano di Tecnologia	IIT	Research Center	Italy	INFO
 Avantium Avantium Chemicals bv	AVT	SME	Netherlands	INFO
 CERTH ΕΘΝΙΚΟ ΚΕΝΤΡΟ ΕΡΕΥΝΑΣ ΚΑΙ ΤΕΧΝΟΛΟΓΙΚΗΣ ΑΝΑΠΤΥΞΗΣ	CERTH	Research Center	Greece	INFO
 ERIC European Research Institute of Catalysis A.I.S.B.L.	ERIC	Research Center	Belgium	INFO
 DVGW Deutscher Verein Des Gasund Wasserfaches – Technischwissenschaftlicher verein ev	DVGW	Research Center	Germany	INFO
 KIT Karlsruher Institut Fuer Technologie	KIT	University	Germany	INFO
 POLITECNICO DI TORINO Politecnico di Torino	POLITO	University	Italy	INFO
 rijksuniversiteit groningen Rijksuniversiteit Groningen	RUG	University	Netherlands	INFO
 HYSYTECH Hysytech s.r.l.	HST	SME	Italy	INFO
 io-li-tec Iolitec Ionic Liquids Technologies GMBH	IOL	SME	Germany	INFO
 met. Uab Modernios e-Technologijos	MET	SME	Lithuania	INFO
 MTM MTM S.r.l.	MTM	SME	Italy	INFO
 TITAN Titan Cement Company AE	Titan	Industry	Greece	INFO

Figure 9: List of consortium members with links for each entity subpage

1.1.5.3 Partner page

For each partner, a separate page has been created. Each partner sub-page includes the description of the entity as well as of the specific department (if applicable) with details on the partner's role in the

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implementation of the action. Finally, key people involved are listed and links are provided to their e-mails and social media accounts (LinkedIn, Twitter, Google scholar etc).


ISTITUTO ITALIANO DI TECNOLOGIA

Fondazione Istituto Italiano di Tecnologia (IIT)

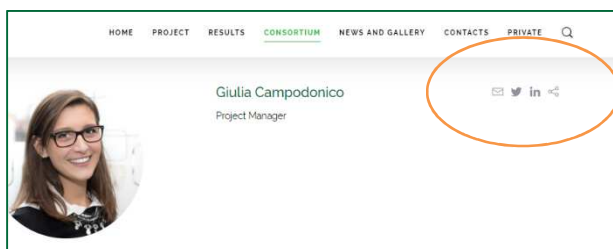
Istituto Italiano di Tecnologia is a scientific research centre whose aim is to promote excellence in both basic and applied research and to facilitate the economic development at national level. IIT scientific plan encompasses 11 different research programs. These are developed within IIT main laboratory based in Genoa and IIT network currently consisting of 11 laboratories throughout Italy and two outstation in the USA in collaboration with MIT and Harvard.

Center for Sustainable Future Technologies

The Center for Sustainable Future Technologies builds upon its wide set of equipment and the multidisciplinary expertise of its enthusiastic and committed research staff to enforce a new mission: the development of cutting-edge technologies to achieve fast the ambitious targets set up in Paris (December 2015) by the COP21 assembly of 195 Countries to cope with the global warming effect.

Team role and expertise in the project

IIT will play a fundamental role in the characterization of physical and thermodynamical properties of ionic liquids and the acetyl acetate, with a particular focus on the absorption / desorption process of CO₂ for the ionic liquid used in the pilot plant. In particular, IIT will procure a complex tool for vapour pressure and absorption / desorption measurements, through which it will be possible to cycle the ionic liquids and simulate operational condition in order to evaluate the time durability and stability of the chemicals. IIT will also contribute to the development of efficient catalysts and electrodes for the conversion of CO₂ to acids. IIT and Prof. Saracco in particular will serve as project coordinator and have a role in the evaluation of alternative CO₂ valorisation pathways and in the leadership of dissemination and communication activities.



1.1.6 “News and Gallery” section

The “News and gallery” section is intended to provide visitors with up-to-date information on the project activities as well as in-depth insight on its research, innovation, and technical outcomes.

1.1.6.1 News

The subpage shows news, press releases and upcoming events. Press releases of the project and a list of conferences or workshops dedicated to relevant thematic areas will be included in this section. In addition, the page contains the link to the project twitter account. Links to additional social media (e.g. LinkedIn, Facebook, SlideShare) may be added to this page during the project implementation.

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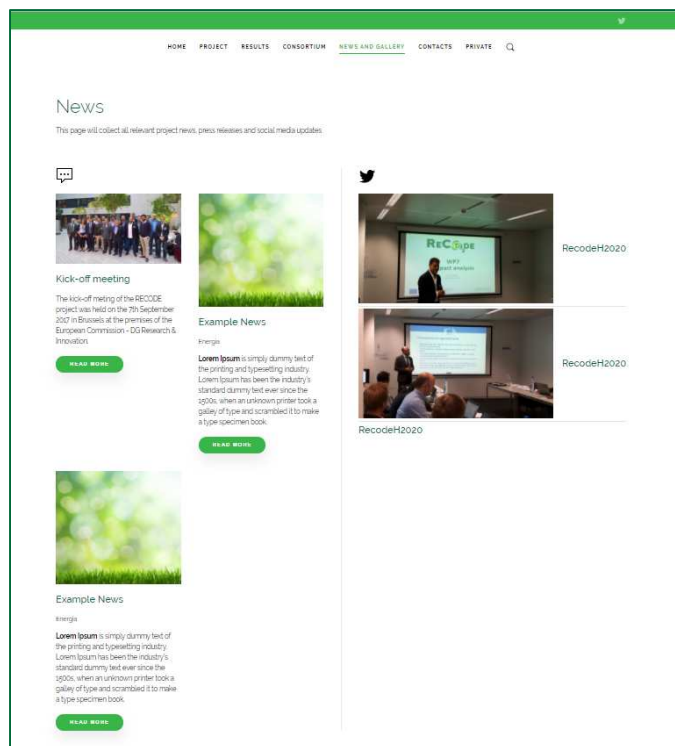


Figure 10: News and Twitter section

1.1.6.2 Gallery

The subpage will include photos and videos produced within the project.

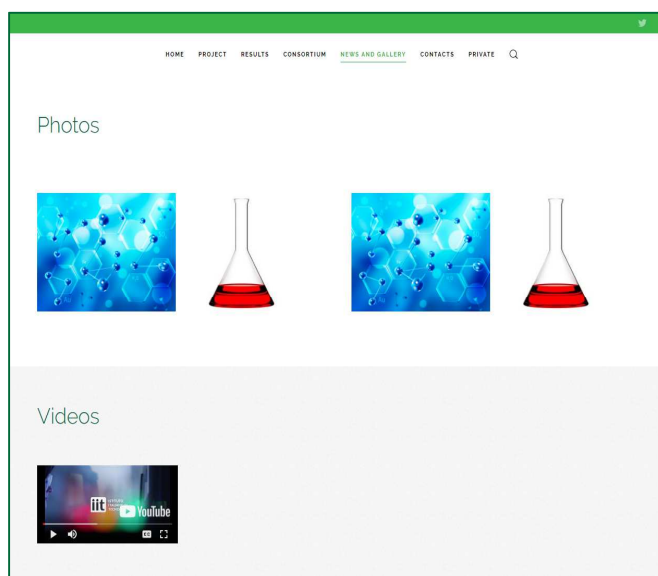


Figure 11: Gallery

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1.1.7 “Contacts” section

The “Contacts” section is intended to provide website visitors with a tool to communicate with the project management team. Two-email alias have been set up to facilitate communication to the Coordinator Management Team. These e-mail accounts will act as a kind of “one-stop-shop” for all matters related to the project (including management, media and press relations).

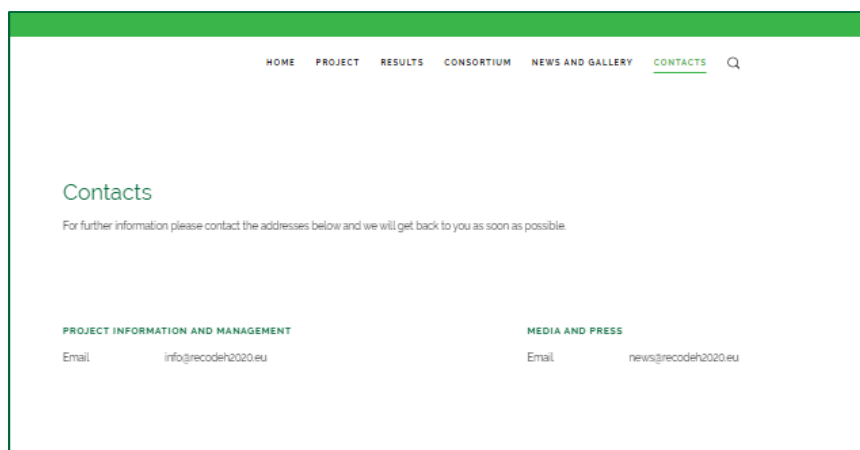


Figure 12 Contacts section

1.1.8 “Private” section

The “private” section is intended to allow visitors to access the website management section and/or the RECODE platform (see below).

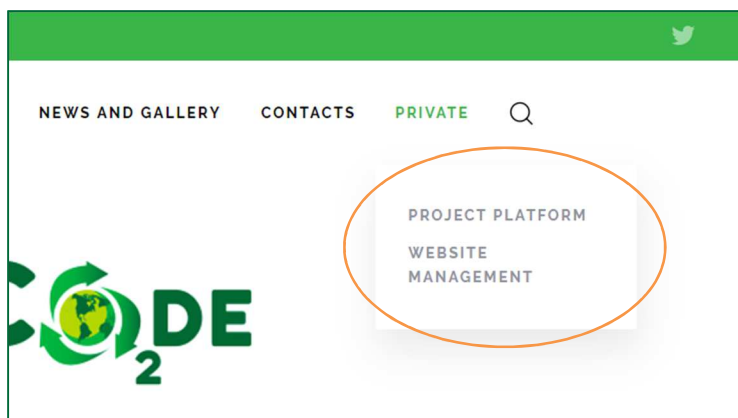
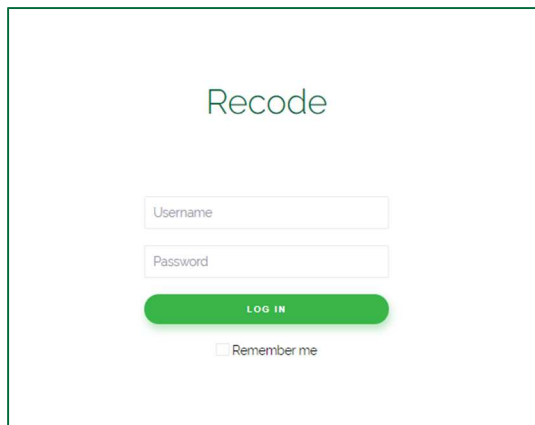


Figure 13 Menu with links to the website management section and project platform

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The image shows a login form for the 'Recode' website. At the top, the word 'Recode' is displayed in a green, sans-serif font. Below it, there are two input fields: 'Username' and 'Password', both with light green borders. Under the 'Password' field is a green button with the text 'LOG IN' in white. At the bottom, there is a checkbox labeled 'Remember me'.

Figure 14 Log in details for website management

1.1.9 Technical implementation and back end

The domain of the website is the following: recodeh2020.eu. The domain has been registered through GARR¹.

The website is built with Joomla 3.7², Content Management System (CMS) tool and publishing platform.

Two modules have been deployed into a virtual private server hosted by IIT.

A private database has been deployed in secured using MySQL.

Automatic back up of the website and of its content will be made on daily basis.

Google analytics³ has been set up for the RECODE website. This will allow the management team to monitor, analyze, and track website traffic data, including volume of visitors, demographics and referrals. Based on these data, the website content may be adjusted along project implementation in order to improve overall website performance, hence visibility of project results.

1.1.10 Content update and management

The website has been set up and will be actively maintained by the Coordinator Management team, with the support of the IIT digital/ICT unit. The website general content section will be updated on a regular basis. Press releases, project updates, publications, and deliverables will be posted in a timely manner along project implementation.

¹ <https://www.garr.it/it/>

² <https://www.joomla.org/3/>

³ <https://analytics.google.com/analytics/>

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1.2 RECODE platform

A repository for document has been implemented as a key tool for exchanging information within the consortium and for supporting the management of the project.

After an accurate analysis of possibilities taking into account security, easiness of use and flexibility, IIT has opted for the commercial solution offered by Microsoft Office365 SharePoint⁴.

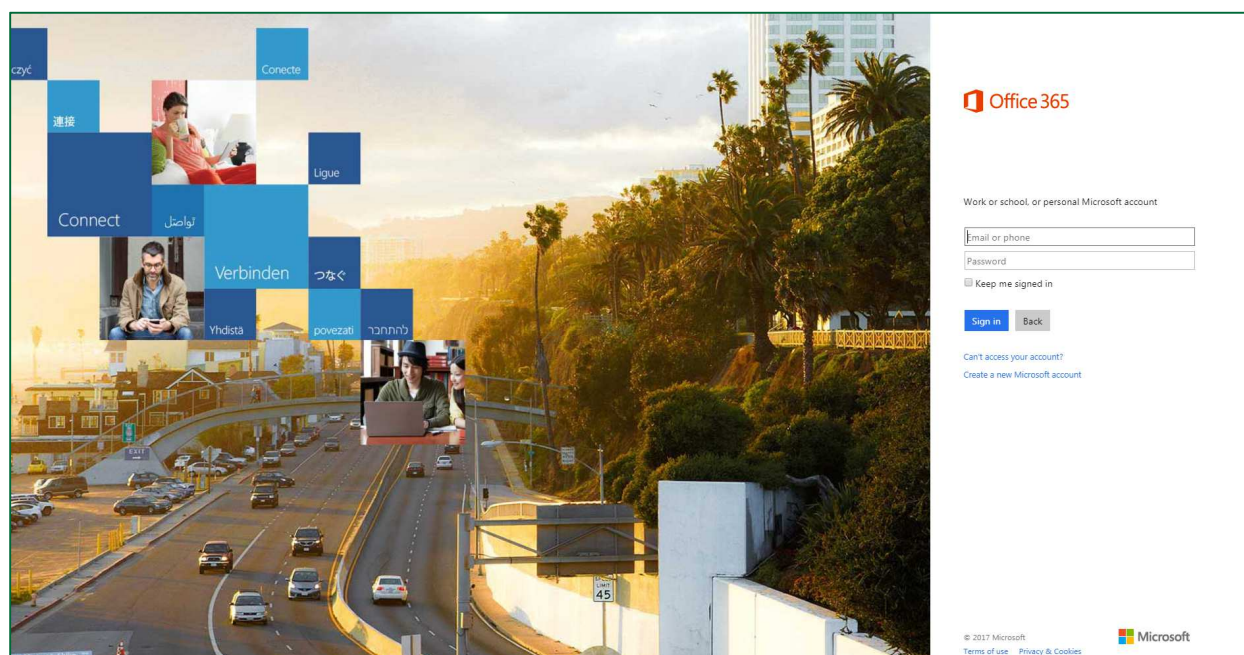


Figure 15 Office365 Share Point Login page

IIT has an Academic subscription to the service that provides users a number of functionalities. This platform allows users to upload files and access them from Windows PCs, Macs and mobile devices. It moreover allows sharing documents with anyone, co-author on the same file without versioning hassles.

1.2.1 Access, protection and management

The platform is accessible through a link on the project external website (§1.1.8) or direct address: <https://istitutoitalianotecnologia.sharepoint.com/sites/ext/recode/>.

Access will be available to registered members of the project consortium only and access will be monitored by IIT Management Team. Each partner participant has been provided with a specific username

⁴ <https://products.office.com/en-us/sharepoint/collaboration>

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and password allowing access to the site, contribution to the forum discussion, as well as the upload and download of documents.

Aside to partners, access will also be provided to the Project Officer and external reviewers and will be limited to the "External access" folder only and in read-only mode.

Security measures are in place to protect the platform for unauthorised access and disclose of confidential information. Nevertheless, it should be noted that more sensitive data (e.g. personal data) should not be shared through this platform and securely maintained on internal servers of project partners.

1.2.2 Platform structure

The restricted platform features the following items:

- A tree of directories for document management
- A forum for exchanges on project relevant matters which can hardly managed over emails and for indications on project guidelines and procedures

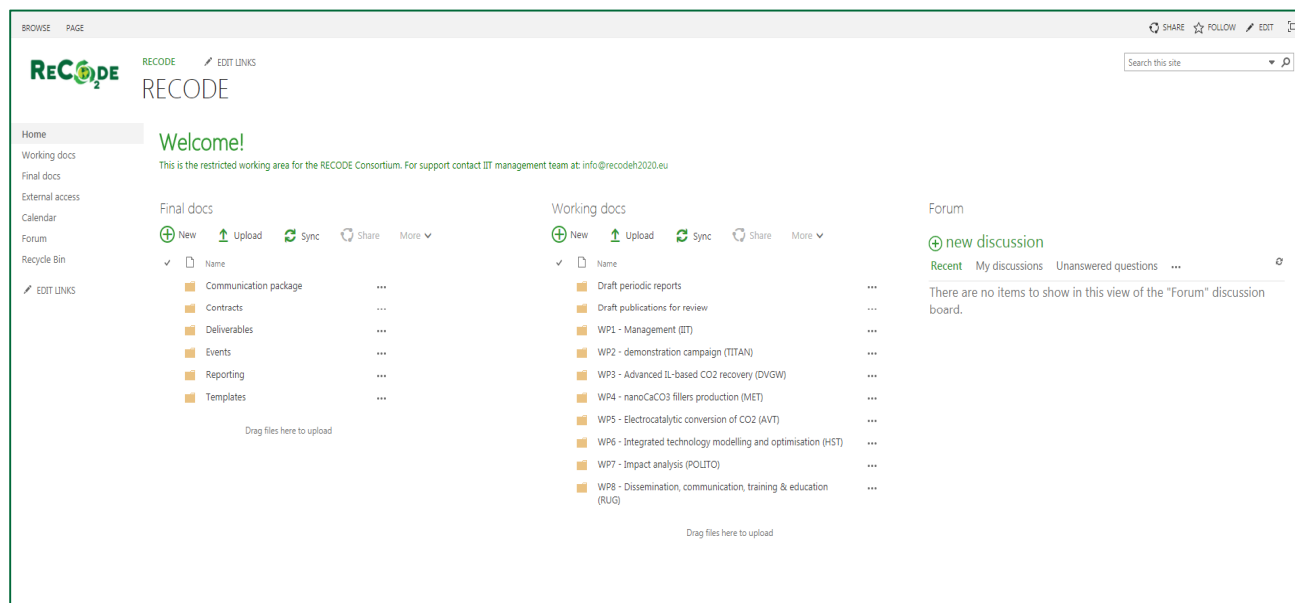


Figure 16 Main page of the RECODE platform

The directory tree is structured as follows:

- **Official data** - This area may be edited by the Management Team only but all partners can read and download the documents. It contains the following sub-directories:
 - o **Contracts** - containing all official project contracts (Grant Agreement and Consortium Agreement), their annexes and eventual official amendments
 - o **Deliverables** - containing the finalised versions of all project deliverables

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- **Events** - containing agenda, presentations, minutes and participants list of all project events and official meetings
 - **Reporting** - containing all official RECODE reporting documents, both internal and to the EC, and the files for monitoring the project progresses (deliverables, milestones, risks, etc)
 - **Templates** - containing the project Logo and templates
- **Working documents** - This working and collaboration area can be edited by all project members. It currently includes 8 sub-folders, one per each WP. Each WP leader will be in charge of managing the respective folder and is free to set it up as better suited to the WP needs. An additional folder "Draft periodic reporting" will be used for internal share of draft periodic reports. Additional folders and subfolders can be created upon request to the Management Team.
 - **External access** - this area will be used for sharing data and files with the European Commission Project Officer and external reviewers. It will be managed by the Management Team.