

RE⁴ Project

REuse and REcycling of CDW materials and structures in energy efficient pREfabricated elements for building REfurbishment and construction

| D8.1 Website creation | |
|---------------------------|--|
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¹ Just mention the partner(s) responsible for the Deliverable

² PU: Public, RE: restricted to a group specified by the consortium, CO: Confidential, only for members of the consortium; Commission services always included.

³ Draft, Revised, Final

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Acronyms & abbreviations

| | |
|---------------|---|
| WP | Work Package |
| D | Deliverable |
| M | Month |
| html | HyperText Markup Language |
| php | Hypertext Preprocessor |
| CETMA | CENTRO DI PROGETTAZIONE, DESIGN & TECNOLOGIE DEI MATERIALI |
| ACC | ACCIONA INFRAESTRUCTURAS S.A. |
| CBI | CBI Betonginstitutet AB |
| CDE | CDE GLOBAL LIMITED |
| Creagh | CREAGH CONCRETE PRODUCTS LIMITED |
| FENIX | FENIX TNT s.r.o. |
| QUB | THE QUEEN'S UNIVERSITY OF BELFAST |
| ROS | ROSWAG ARCHITEKTEN GESELLSCHAFT VON ARCHITEKTEN MBH |
| STAM | STAM SRL |
| STRESS | SVILUPPO TECNOLOGIE E RICERCA PER L'EDILIZIA SISMICAMENTE SICURA ED ECOSOSTENIBILE SCARL |
| NTUST | National Taiwan University of Science and Technology |
| Vortex | VORTEX HYDRA S.R.L. |
| ACR+ | ASSOCIATION DES CITES ET DES REGIONS POUR LE RECYCLAGE ET LA GESTION DURABLE DES RESSOURCES |



Introduction

1.1. Summary

The Deliverable D8.1 is a public document of the RE⁴ project, delivered in the context of WP8 Training, dissemination and exploitation, Task 8.4 Dissemination. The objective of Task 8.4 is to secure the successful dissemination through the implementation and deployment of an awareness and dissemination plan.

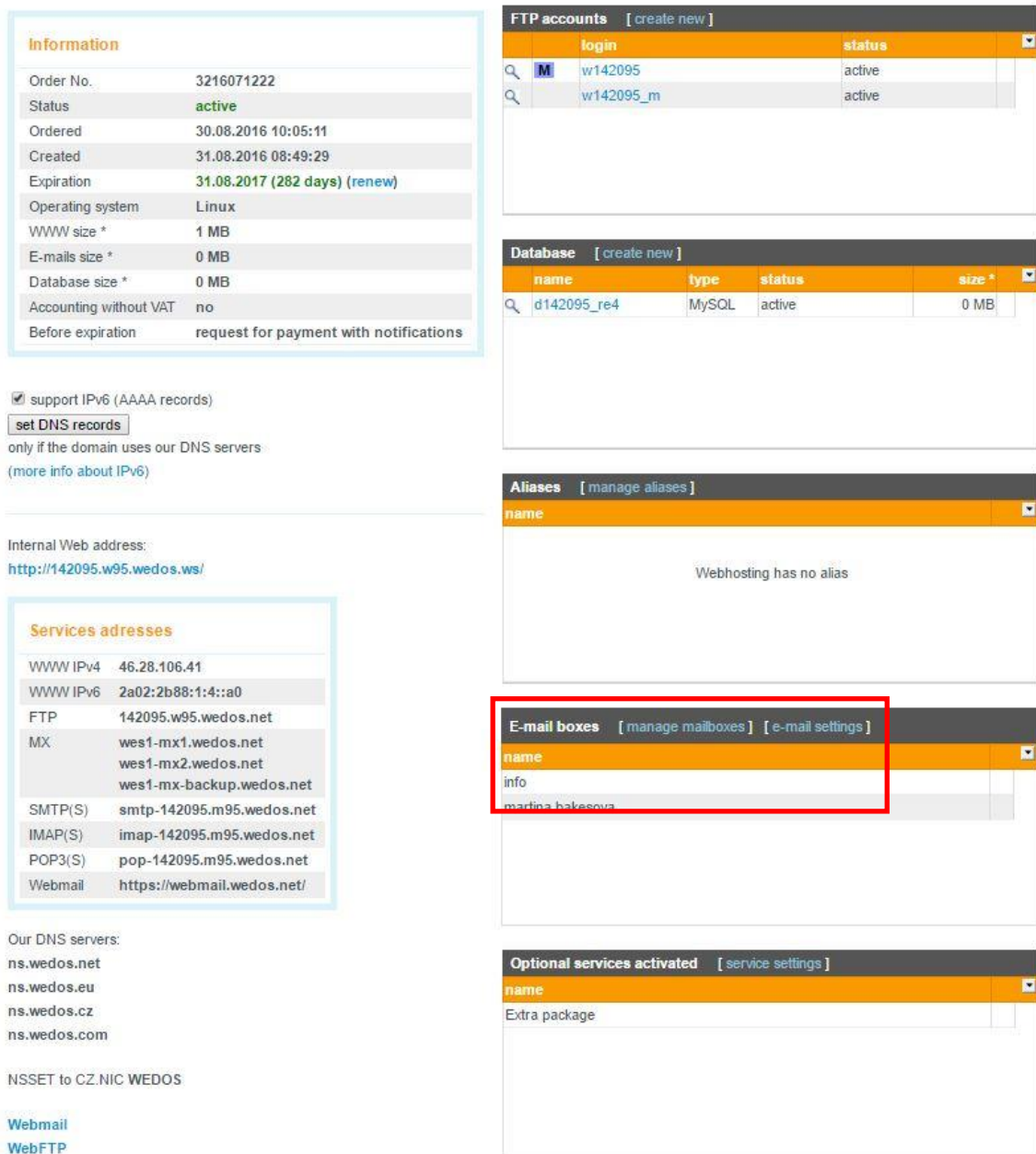
This document presents the first step in the partial objective of developing and deploying an awareness and dissemination plan: the RE⁴ project website – public dedicated to the wide public audience all around the world. As a first step the logo of the project, dictating the visual identity was developed. Once that was ready an entire website was constructed utilizing the visual identity. The website is available online and can be accessed at www.re4.eu.

The website is not intended to be static. News and events section as well as the rest of the content will be once a month updated and managed by the Dissemination WP leader - FENIX throughout the lifetime of the project based on the partners' inputs (request for partners' contribution will be sent every 3 months) and project evolution. Different audiences are being considered and the information while technical and complete, it has been streamlined and presented in a way that is accessible by wide range of stakeholders. An initial version of RE⁴ project website - public has been designed, provisioned and deployed on the internet. The site is hosted by FENIX – WP8 leader, under domain re4.eu.

Google Analytics as key performance indicator has been considered and deployed at this early stage of the project (e.g. users, countries, languages, browsers, device, etc.). Website was designed considering display on different devices such as desktop, mobile or tablet.

2. Design and registration data

The RE⁴ project website has been created during the early project stage and launched under the www.re4.eu. Webhosting was bought in provider WEDOS, registration data are given in Figure 1 and Figure 2. For the website, creation following programming languages were used: html, php, database MySQL, Java Script and reduction system based on the Open Force. Under the webhosting project info email “info@re4.eu” was created to be further used for social network profiles creation – registration, newsletter campaign, etc. Email is maintained by FENIX.



The screenshot displays the WEDOS control panel for a webhosting account. It is divided into several sections:

- Information:**
 - Order No.: 3216071222
 - Status: **active**
 - Ordered: 30.08.2016 10:05:11
 - Created: 31.08.2016 08:49:29
 - Expiration: 31.08.2017 (282 days) (renew)
 - Operating system: Linux
 - WWW size *: 1 MB
 - E-mails size *: 0 MB
 - Database size *: 0 MB
 - Accounting without VAT: no
 - Before expiration: request for payment with notifications
- FTP accounts:**

| login | status |
|-----------|--------|
| w142095 | active |
| w142095_m | active |
- Database:**

| name | type | status | size * |
|-------------|-------|--------|--------|
| d142095_re4 | MySQL | active | 0 MB |
- Aliases:** Webhosting has no alias
- E-mail boxes:** (highlighted with a red box)

| name |
|------------------|
| info |
| martina.bakesova |
- Optional services activated:**

| name |
|---------------|
| Extra package |

Additional details include:

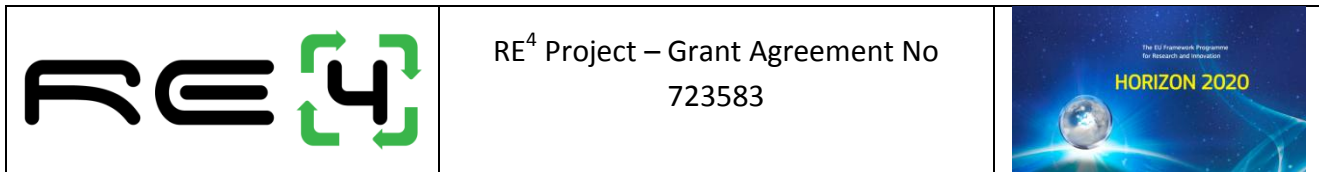
- Internal Web address: <http://142095.w95.wedos.ws/>
- Services addresses:**
 - WWW IPv4: 46.28.106.41
 - WWW IPv6: 2a02:2b88:1:4::a0
 - FTP: 142095.w95.wedos.net
 - MX: wes1-mx1.wedos.net, wes1-mx2.wedos.net, wes1-mx-backup.wedos.net
 - SMTP(S): smtp-142095.m95.wedos.net
 - IMAP(S): imap-142095.m95.wedos.net
 - POP3(S): pop-142095.m95.wedos.net
 - Webmail: <https://webmail.wedos.net/>
- Our DNS servers: ns.wedos.net, ns.wedos.eu, ns.wedos.cz, ns.wedos.com
- NSSET to CZ.NIC WEDOS
- Webmail and WebFTP links.

Figure 1 - Webhosting registration data

| Information | |
|------------------------|--|
| Order number | 3116225267 |
| Status | active |
| Webhosting | re4.eu [3216071222] |
| Ordered | 29.08.2016 11:27:02 |
| Established | 30.08.2016 08:45:43 |
| Expiration | 30.08.2017 (281 days) (renew) |
| Accounting without VAT | no |
| TLD | eu (EURid) |
| Owner contact | c26421198 |
| KEYSET ID | |
| Before expiration | request for payment with notifications |

| DNS servers [change DNS servers] [edit DNS records] | | |
|---|------|------|
| Server | IPv4 | IPv6 |
| ns.wedos.com | | |
| ns.wedos.eu | | |
| ns.wedos.cz | | |
| ns.wedos.net | | |

Figure 2 - Domain registration data



3. Website description

The website has been set up under the address www.re4.eu. The site is hosted by FENIX as WP8 leader. It has been designed to quickly address the key questions that external visitors to the website are expected to have:

- What is the project about?
- Who is participating in the project?
- What additional details are available?
- Who to contact for more information?

The site itself is split into two sections - private and public. The public section, which is accessible to everyone, contains:

- general information about the aim of the project,
- partners' details,
- list of news and events,
- all public material that will be generated by the project,
- links to social network profiles,
- newsletter subscription,
- contact information,
- gallery.

The second part of the website is a private section that is available to the FENIX (as an administrator) and also to the project partners. The private section can be accessed via log-in credentials. This restricted section contains:

- information about meetings,
- deliverables and management reports,
- administrative documents and forms,
- planned publications,
- work packages,
- templates and promo material,
- other documents.

The website is planned to provide information available to the project partners and to the wider public. In the following subsections the single elements - sections and their intended use are described.

3.1. Home page

The Home page of the RE⁴ website contains basic information about project. The upper part of the screen shows a navigation panel, using a structure that is commonly used. At the top of the page the project's logo is placed, at the bottom of the page are shown short news, online twitter, links for the social profiles, contact, newsletter subscription, project identifiers and finally EU collaboration.

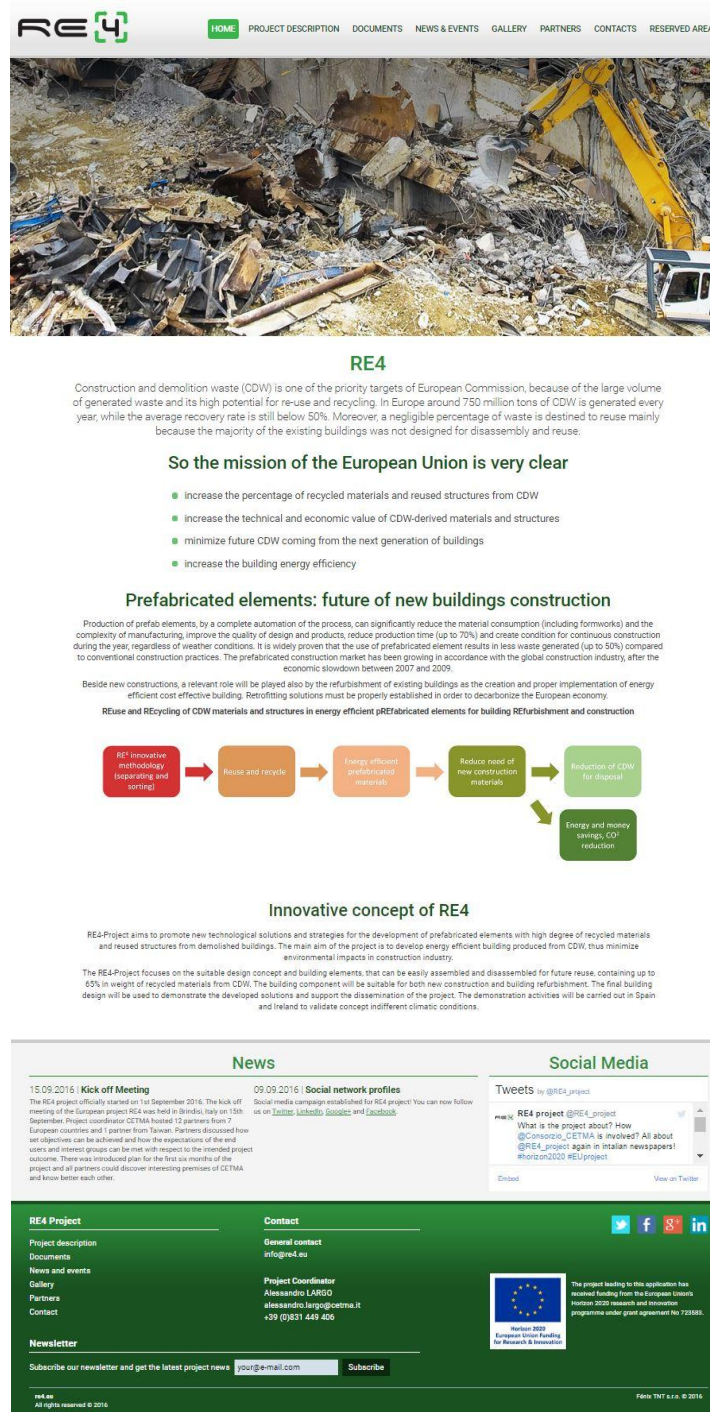



Figure 3 - Home page section

3.2. Project description page

Project description page presents the overall concept, conceptual architecture, goal, expected impact of the project, project objectives, info about demonstration buildings, etc.



Project description

The main purpose of project is to develop a RE4-prefabricated energy-efficient building concept that can be easily assembled and disassembled for future reuse, containing up to 65% in weight of recycled materials from CDW (ranging from 50% for the medium replacement of the mineral fraction, up to 65%). The reusable structures will range from 15-20% for existing buildings to 80-90% for the RE4-prefabricated building concept.

Overall concept

The innovation is firstly focused on the development of new sorting technologies. Such first stage of the recycling process establishes the amount of recycled material and also the possibility to properly close the product chain maximizing the product value. The development of the innovative sorting technologies will be aimed at the optimization of the homogeneity and quality of each fraction/material/structure from CDW, focusing on materials with the highest technical and economic interest. Such fraction/material/structure from CDW will be studied and processed with 3 different technologies (casting, extrusion and moulding) and transformed in the new or adapted prefabricated components highlighted in Figure below. The prefabricated component developed in the RE4-Project will be finally assembled into a RE4-prefabricated energy-efficient building concept designed for an easy installation and dismantling.

Development of innovative design concepts for smart installation and disassembly of the pre-fabricated elements into a prefabricated energy-efficient building unit.
The concepts will be designed in such way that multiple applications for different building typologies (e.g. residential, commercial) will be easy to implement.
RE4 demonstration in industrial environment: testing and evaluation, replication
Demonstration of the proposed RE4 solutions for new constructions will take place in two specifically constructed mock-ups representatives of building archetypes across Europe consisting of a two storey building.
Enhancement of the sustainability and future applications of RE4 prefabricated products
From a quantitative point of view, the following objectives are targeted in relation to: CO2 savings (over 30%), energy savings (20%), higher resource efficiency (minimum share of recycled materials in final product up to 65%), less waste generation, less CDW disposal in landfill.
Development of a BIM-compatible DSS and platform for CDW estimation and Management
A BIM-compatible tool will be developed with the aim of supporting owners and construction/demolition companies by providing an estimation of the types and quantities of CDW that will be generated during construction/demolition, with possible utilization options and related logistic references.
Development of business models for industrial exploitation
The expansion of size and attractiveness of CDW recycling and reuse for energy efficient buildings construction and refurbishment will promote an efficient value chain, creating attractive business opportunities for the involved stakeholders.

News

15.09.2016 | **Kick off Meeting**
The RE4 project officially started on 1st September 2016. The kick off meeting of the European project RE4 was held in Brindisi, Italy on 15th September. Project coordinator CETMA hosted 12 partners from 7 European countries and 1 partner from Taiwan. Partners discussed how set objectives can be achieved and how the expectations of the end users and interest groups can be met with respect to the intended project outcome. There was introduced plan for the first six months of the project and all partners could discover interesting premises of CETMA and know better each other.

09.09.2016 | **Social network profiles**
Social media campaign established for RE4 project! You can now follow us on [Twitter](#), [LinkedIn](#), [Google+](#) and [Facebook](#)!

Social Media

Tweets by @RE4_project

RE4 project @RE4_project
What is the project about? How @Consorzio_CETMA is involved? All about @RE4_project again in Italian newspapers! #horizon2020 #EUproject

RE4 Project

Project description
Documents
News and events
Gallery
Partners
Contact

Newsletter

Subscribe our newsletter and get the latest project news

Contact

General contact
info@re4.eu

Project Coordinator
Alessandro LARGO
alessandro.largo@cetma.it
+39 (0)831 449 406

Horizon 2020
European Union funding for Research & Innovation

The project leading to this application has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 723583.

re4.eu
All rights reserved © 2016

Fenix TNT s.r.l. © 2016

Figure 4 - Project description section

3.3. Public documents page

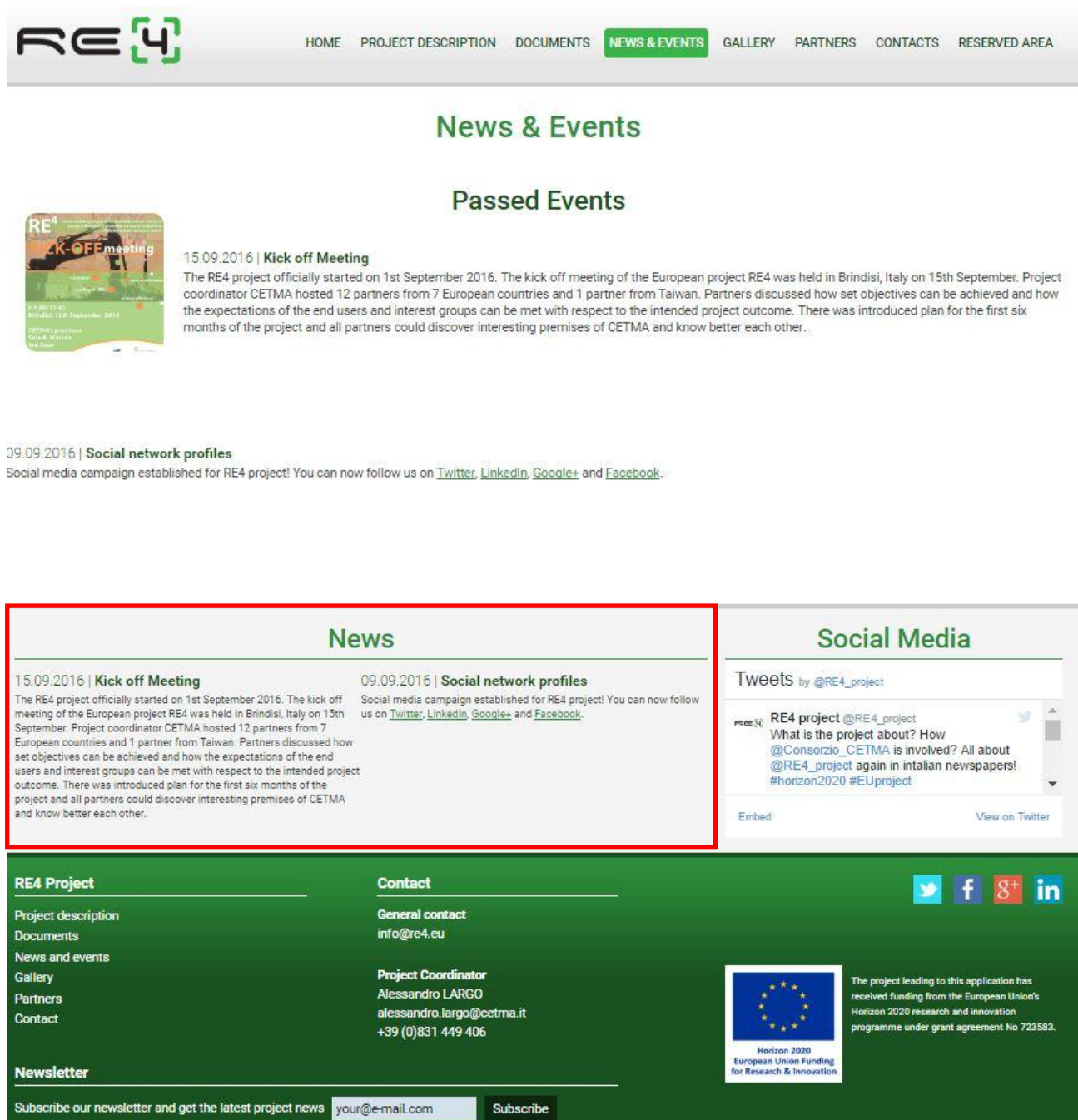
The Documents section is split into subsections Deliverables, Promo material (subsections: Logos, Press Releases, Newsletters, Leaflets, Posters, Videos), Publications (subsections: Scientific Publications, Popularized publications), Meetings and events, Clustering activities and Other. Subsections can be added based on the project requirements at any time. The Documents page will contain all material that has been published and is thus publicly available (respecting copyright issues).



Figure 5 - Public documents section

3.4. News & Events page

This page will present a list of news and events, which will include all meetings of the project partners and important events in which a large group of the consortium partners participate, such as conferences, fairs, workshops, etc. Short info about the most relevant upcoming news is reflected at the bottom part of the website in all sections.



The screenshot shows the RE4 website's 'News & Events' page. At the top, there is a navigation bar with the RE4 logo and menu items: HOME, PROJECT DESCRIPTION, DOCUMENTS, NEWS & EVENTS (highlighted), GALLERY, PARTNERS, CONTACTS, and RESERVED AREA. The main heading is 'News & Events' with a sub-heading 'Passed Events'. A featured article titled '15.09.2016 | Kick off Meeting' includes a thumbnail image and text describing the project's start. Below it, another article '09.09.2016 | Social network profiles' is visible. A red box highlights the 'News' section, which contains two articles: '15.09.2016 | Kick off Meeting' and '09.09.2016 | Social network profiles'. To the right, a 'Social Media' section displays a tweet from @RE4_project. The footer contains project information, contact details for Alessandro LARGO, a newsletter subscription form, and the Horizon 2020 logo with funding details.

Figure 6 - News & Events section

3.5. Gallery

Gallery section will display images from meetings, events and show pictures related to the project. In this section individual albums are possible to be created for easier viewing and photo organization.

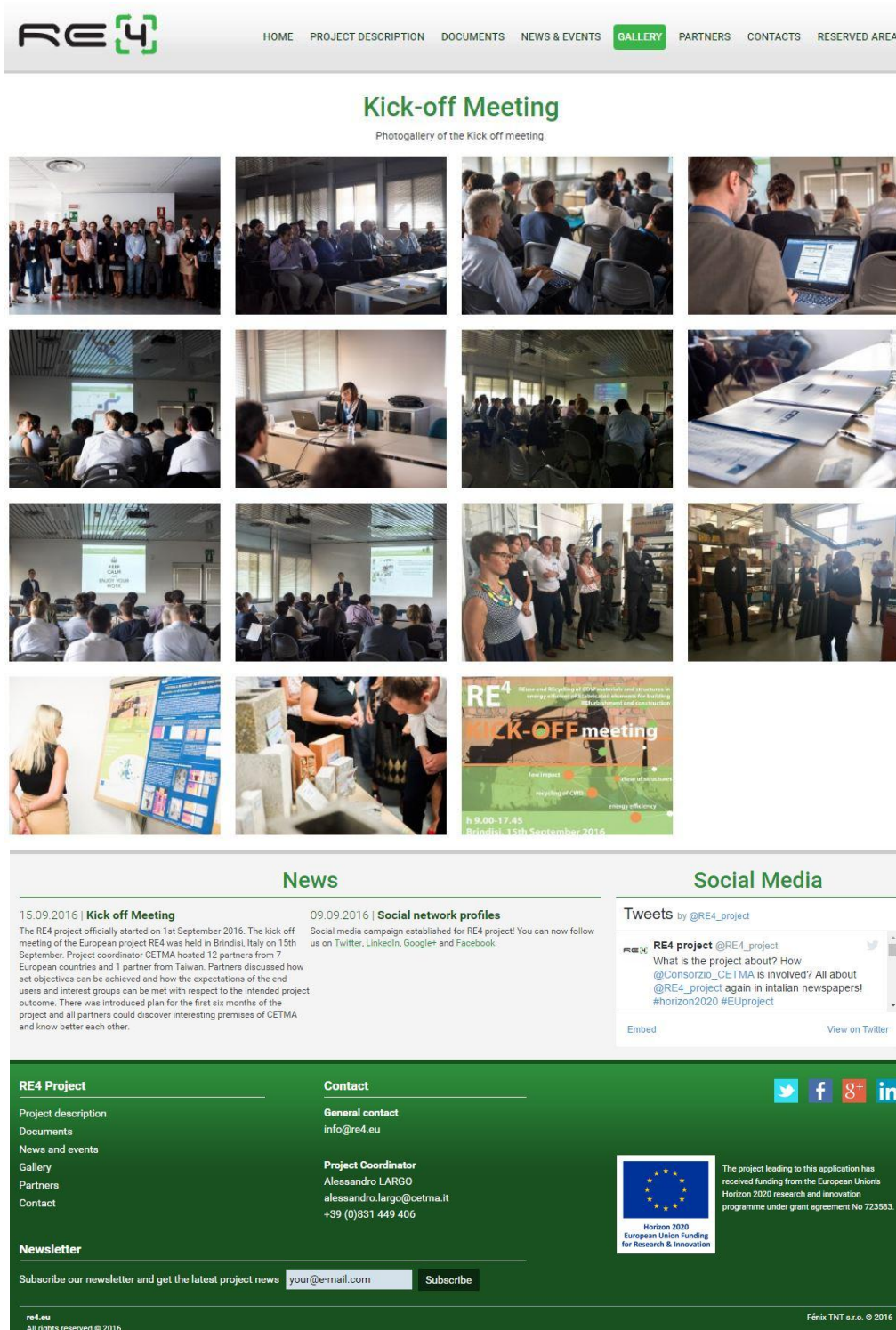
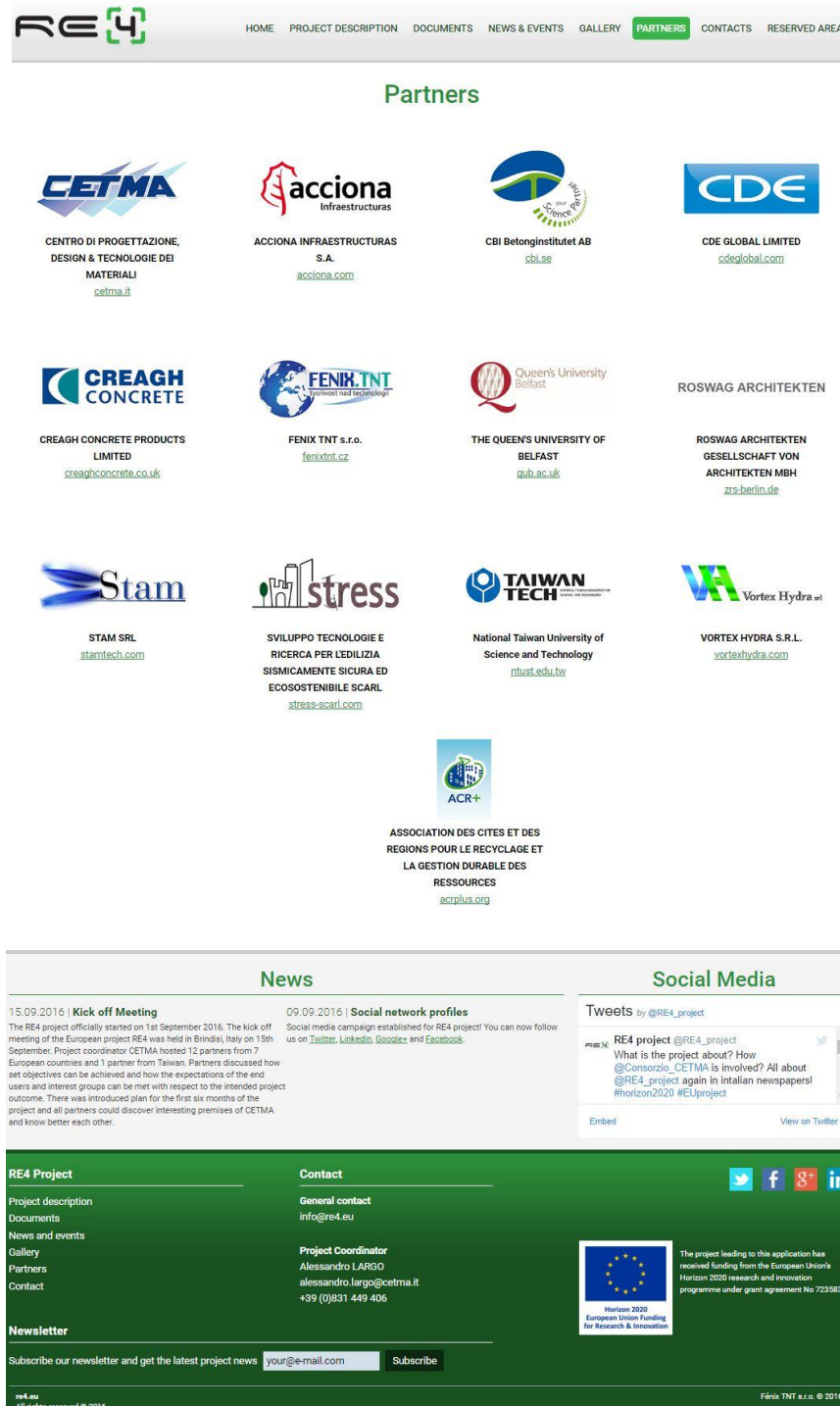


Figure 7 - Gallery section

3.6. Partners page

This part of the website contains information about the partners involved in the RE⁴ project. It shows each partner's name, logo and a link to the partner's homepage. This part of the website will be static, except for the case of partner changes in the project.



The screenshot shows the RE4 website's 'Partners' page. At the top, there is a navigation menu with 'PARTNERS' highlighted. Below the menu, the word 'Partners' is centered. The main content area displays a grid of partner logos and names, each with a link to their website. The partners listed are:

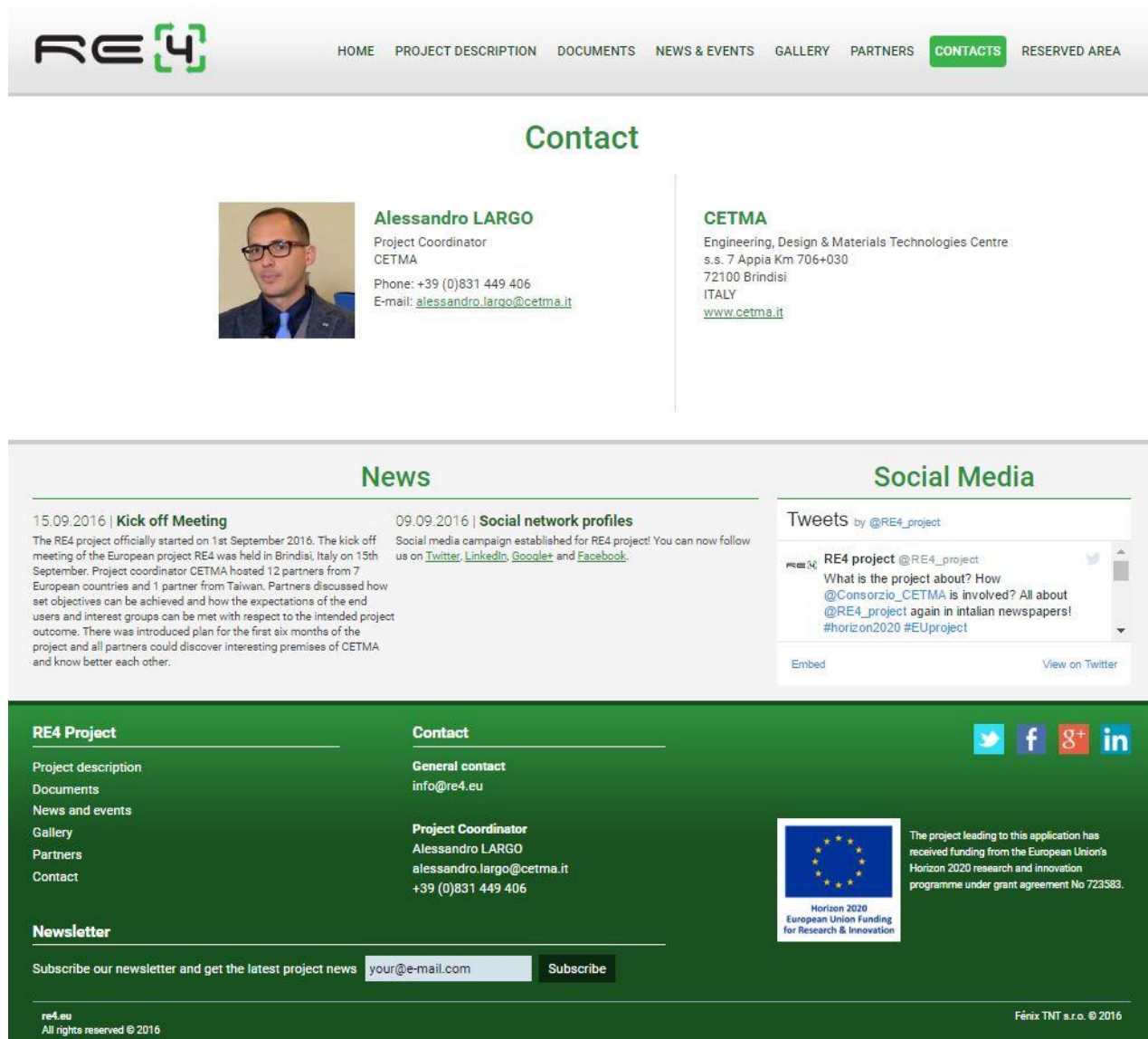
- CETMA**: CENTRO DI PROGETTAZIONE, DESIGN & TECNOLOGIE DEI MATERIALI (cetma.it)
- acciona**: ACCIONA INFRASTRUCTURAS S.A. (acciona.com)
- CBI**: CBI Betonginstituet AB (cbi.se)
- CDE**: CDE GLOBAL LIMITED (cdeglobal.com)
- CREAGH CONCRETE**: CREAGH CONCRETE PRODUCTS LIMITED (creaghconcrete.co.uk)
- FENIX TNT**: FENIX TNT s.r.o. (fenixtnt.cz)
- Queen's University Belfast**: THE QUEEN'S UNIVERSITY OF BELFAST (qub.ac.uk)
- ROSWAG ARCHITEKTEN**: ROSWAG ARCHITEKTEN GESELLSCHAFT VON ARCHITEKTEN MBH (zrs-berlin.de)
- Stam**: STAM SRL (stamtech.com)
- stress**: SVILUPPO TECNOLOGIE E RICERCA PER L'EDILIZIA SISMICAMENTE SICURA ED ECOSOSTENIBILE SCARL (stress-scarl.com)
- TAIWAN TECH**: National Taiwan University of Science and Technology (ntust.edu.tw)
- Vortex Hydra**: VORTEX HYDRA S.R.L. (vortexhydra.com)
- ACR+**: ASSOCIATION DES CITES ET DES REGIONS POUR LE RECYCLAGE ET LA GESTION DURABLE DES RESSOURCES (acrplus.org)

Below the partners section, there are two columns: 'News' and 'Social Media'. The 'News' section contains two articles from 2016. The 'Social Media' section shows a tweet from @RE4_project. At the bottom, there is a green footer with a navigation menu, contact information, a newsletter sign-up form, and a logo for Horizon 2020 funding.

Figure 8 - Partners section

3.7. Contacts page

The last part of the public section contains contact information of the coordinator. It is intended for any inquiries by interested parties.



The screenshot shows the contact page of the RE4 website. At the top, there is a navigation bar with the RE4 logo and menu items: HOME, PROJECT DESCRIPTION, DOCUMENTS, NEWS & EVENTS, GALLERY, PARTNERS, CONTACTS (highlighted), and RESERVED AREA. The main heading is "Contact".

On the left, there is a profile for **Alessandro LARGO**, Project Coordinator at CETMA. His contact information includes a phone number (+39 (0)831 449 406) and an email address (alessandro.largo@cetma.it). A small portrait photo of him is shown to the left.

On the right, there is information for **CETMA**, located at Engineering, Design & Materials Technologies Centre, s.s. 7 Appia Km 706+030, 72100 Brindisi, ITALY. The website www.cetma.it is listed.

Below the contact information, there are two sections: "News" and "Social Media". The "News" section features two articles: "15.09.2016 | Kick off Meeting" and "09.09.2016 | Social network profiles". The "Social Media" section displays a tweet from @RE4_project asking about the project and mentioning @Consorzio_CETMA.

At the bottom, there is a green footer area. On the left, under "RE4 Project", are links for Project description, Documents, News and events, Gallery, Partners, and Contact. Under "Newsletter", there is a subscription form with a "Subscribe" button. On the right, under "Contact", there is a "General contact" email (info@re4.eu) and "Project Coordinator" details for Alessandro LARGO. Social media icons for Twitter, Facebook, Google+, and LinkedIn are also present. A European Union logo and text state: "The project leading to this application has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 723583." The footer also includes "re4.eu All rights reserved © 2016" and "Fénix TNT s.r.o. © 2016".

Figure 9 - Contact section

3.8. Reserved area

The reserved area is accessed only by the project partners. Full access could be also granted to the European Commission Officer, if necessary at any time. In this section the partners can login using their individual access data. Each partner is provided with a username and password in order to validate their access to the secure area.

In this section the administrator (FENIX) can manage to update section News and Events, upload public and private documents, upload pictures, photos to the Gallery and make changes of the website content. The project partners are enabled to upload and manage public and private documents.

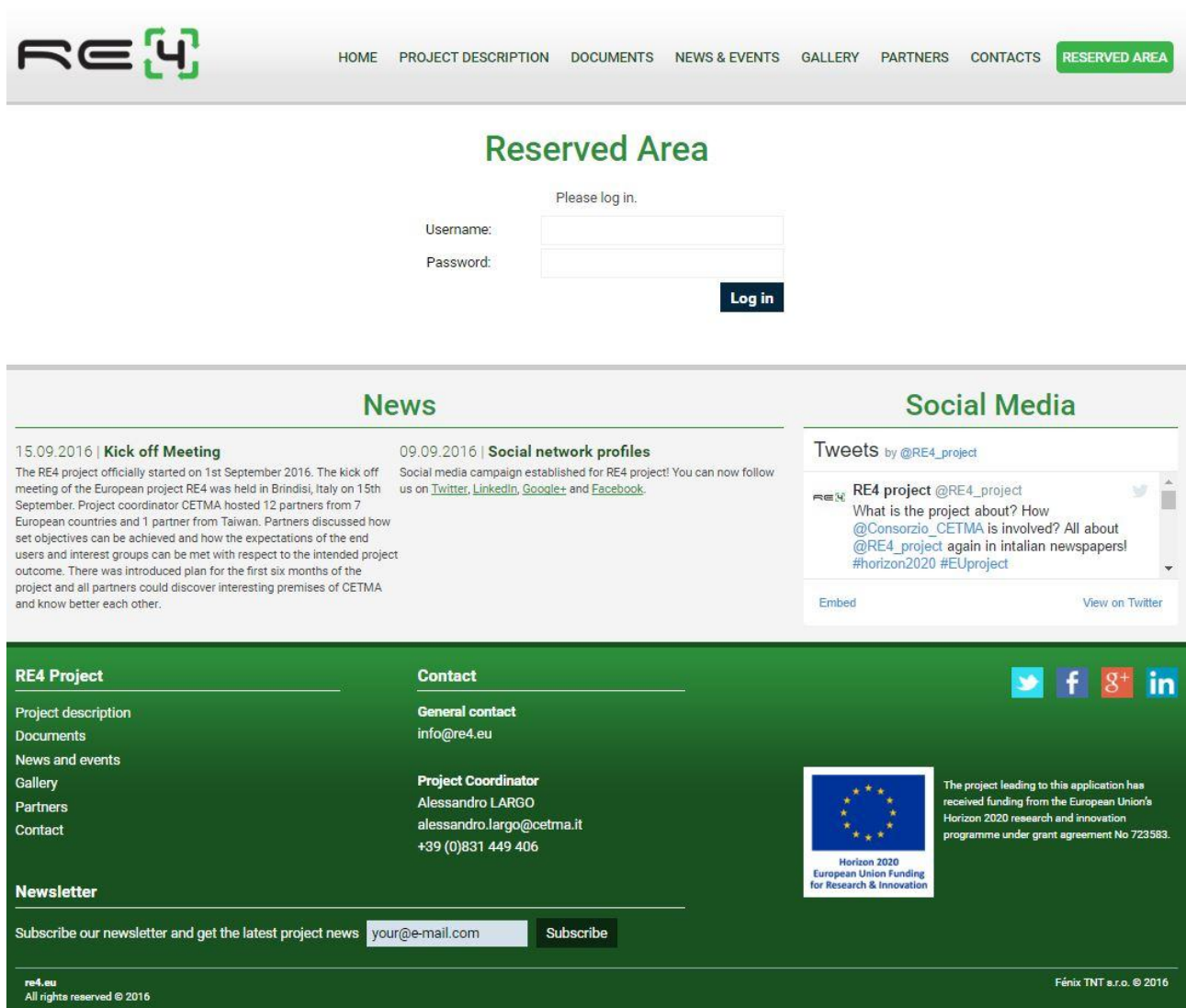


Figure 10 - Reserved area section

3.9. Social network profiles and Newsletter subscription

Within the social campaign social network profiles were created and linked to the website. Social profiles used: LinkedIn, Facebook, Google+ and Twitter. The website contains also online twitter. Newsletter subscription is linked to the info@re4.eu where all subscribers are collected for Newsletter campaign.

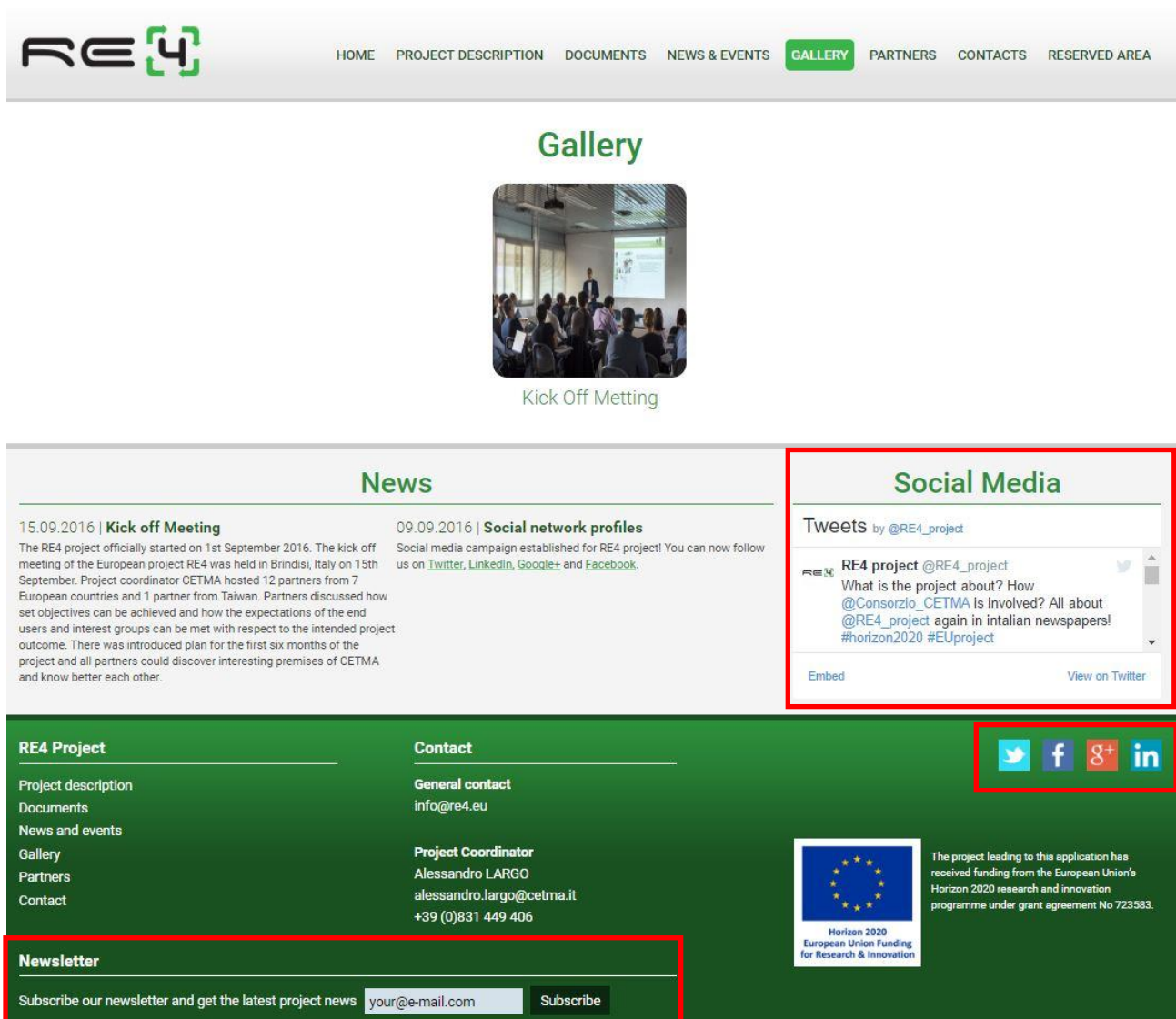


Figure 11 - Social network profiles and Newsletter subscription

3.10. Cookies policy

Cookies are small text files stored on users' computer by their browser. They have many applications, such as: tracking users as they navigate around a website; remembering user preferences; auto-logins for visitors coming back to a site; and website security. Within RE⁴ project website cookies policy was also implemented.

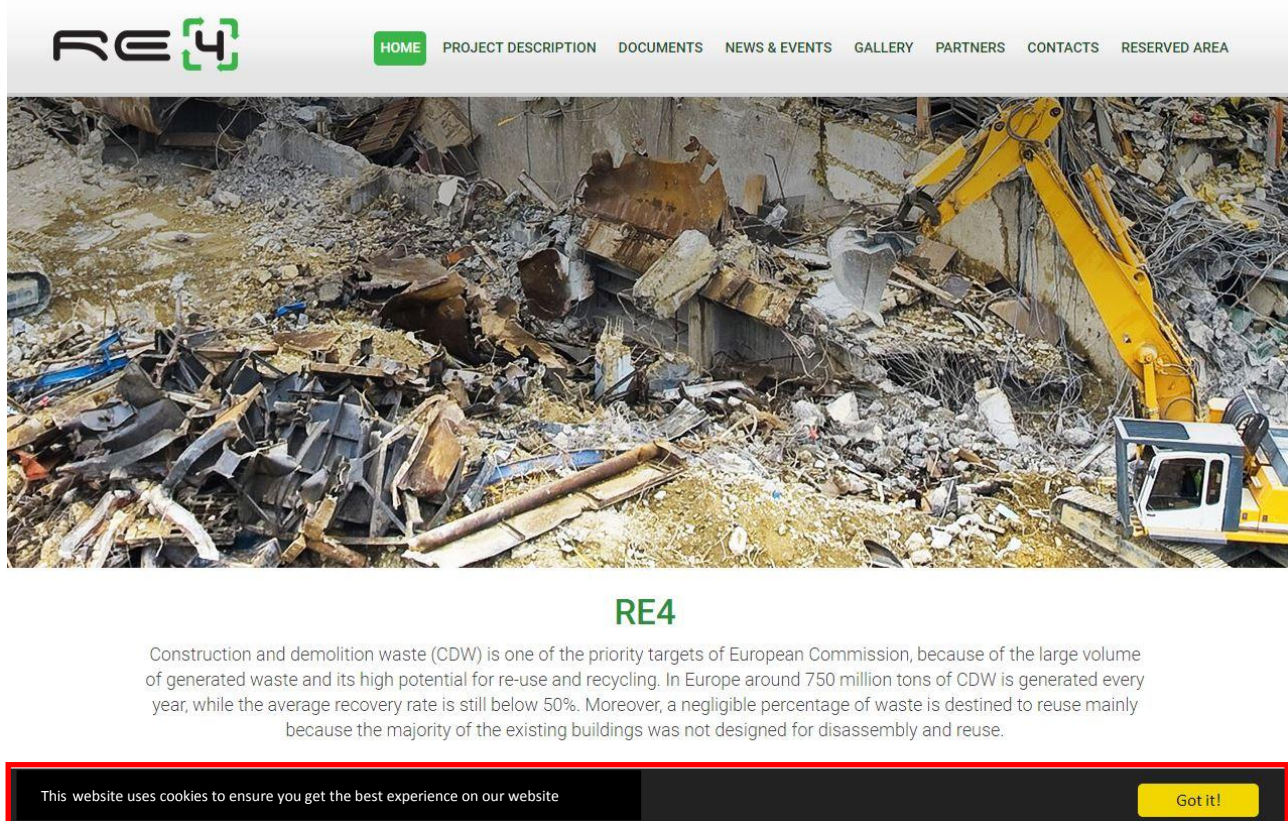


Figure 12 - Cookies policy

3.11. Working with the website

How to solve issues with the website is shown in the flow chart below.

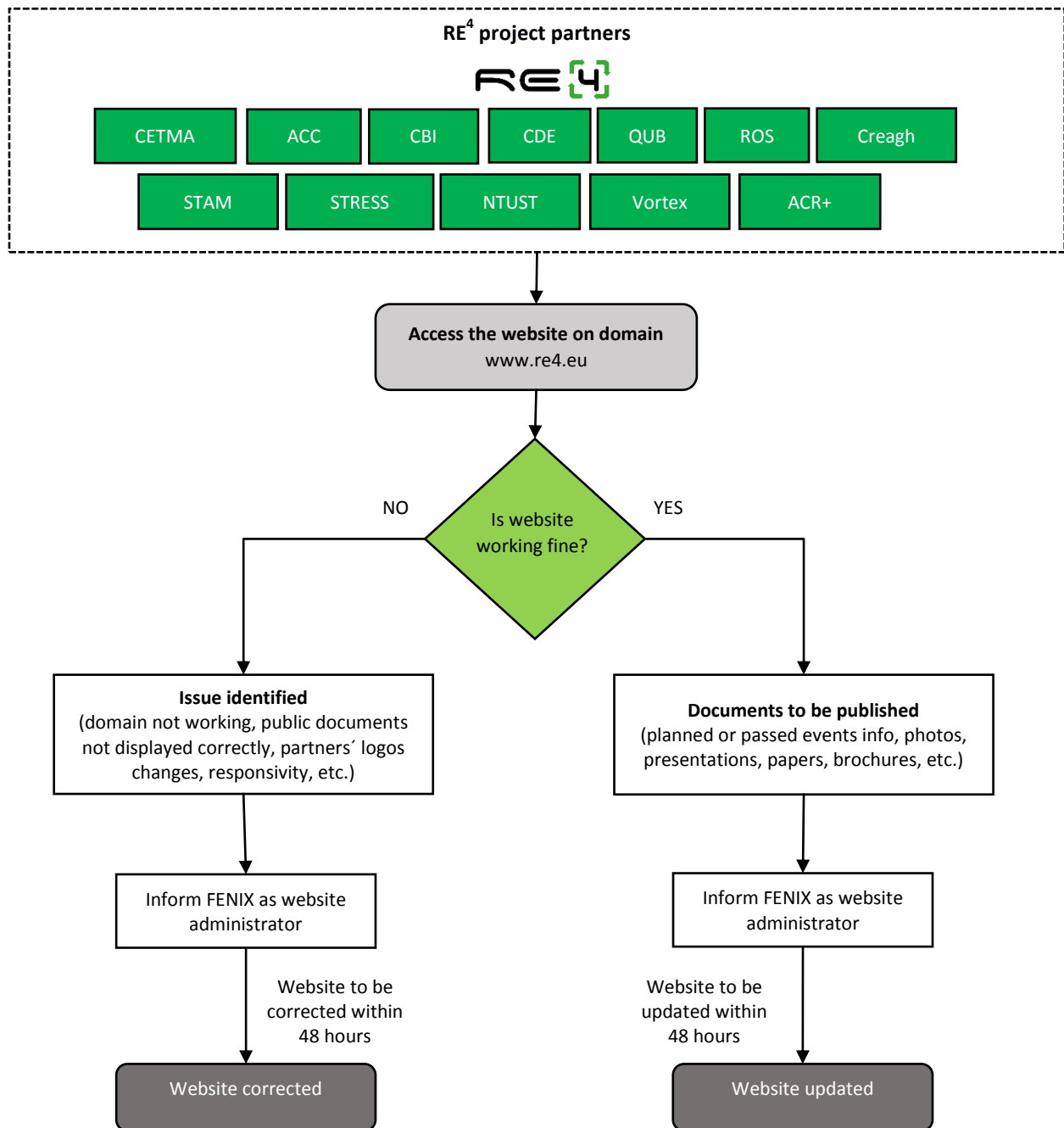


Figure 13 - Working with the website (problem solving, updating)

4. Future work

Short term improvements to the website under consideration at the time of deliverable writing include:

- monitoring website statistics (new visitors, return visitors, languages, countries, etc.)
- update of website content based on project progress annually (and on demand when it is necessary)
- short video clip introducing RE⁴ project displayed on the Home page (planned for M24)
- translation into partners' languages to overcome language barrier in case consortium partners are interested.

5. Conclusions and recommendations

The online RE⁴ website - public is a key element of the project's dissemination strategy. This site will ensure the visibility of the project, facilitate the diffusion of the project's results and promote their exploitation.

An initial version of the RE⁴ project website - public has been designed, provisioned and deployed on the internet. Consisting mostly of static content, it has been designed to quickly answer the key questions that external visitors to the website are expected to have. The project website will continuously form and develop as the project itself grows.

The information included on the project website is likely to be valuable even after the project has finished. Therefore, the consortium aims at ensuring that the website will continue to exist after the project funding has finished and that bookmarks and published URLs will continue to function.