



H2020-EeB6-2015-680450

Compact **RE**trofit Advanced Thermal Energy storage



D 9.1 Project Website - public

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Background

The objective of CREATE is to develop and demonstrate a heat battery, i.e. an advanced thermal storage system based on Thermo-Chemical Material (TCMs), that enables economically affordable, compact and loss-free storage of heat in existing buildings.

This deliverable (D9.1) aims to provide description of the project website, its main features and guidelines how to work with this powerful internet tool. It is the first step in the partial objective of developing and deploying an awareness and dissemination plan.

This document was compiled by FENIX, whereas different partners within the CREATE program have shared their expertise for this document. This document has also been reviewed by the partners within the CREATE program before publication.

1 References

1.1 Applicable Documents

	Document	Reference	Issue
AD-01	CREATE Grant Agreement	No. 680450	1
AD-02	CREATE Consortium Agreement	No. 0100289706	1

1.2 Reference Documents

Document	Reference
RD-01	
RD-02	
RD-03	

2 Terms, definitions and abbreviated terms

RP	Report
WP	Work package
D	Deliverable



3 Executive summary

The Deliverable D9.1 is a public document of the CREATE project, delivered in the context of WP9 Dissemination and exploitation of results, Task 9.1 Plan for the dissemination and exploitation of the project's results and Communication Plan. The on-line CREATE 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.

Figure 1 – CREATE website main elements

The screenshot displays the main elements of the CREATE website. At the top, there is a navigation menu with icons for Home, About project, Documents, News & Events, Gallery, Partners, and Contact. A search bar and a Login button are also present. The main content area features a section titled "The heat battery targets three breakthrough elements" with three columns of information:

- Economical affordability:** for the existing building stock we will reach at least a reduction of 15% of the net energy consumption with a potential Return-On-Investment shorter than 10 years
- Compactness:** novel high-density materials will be used in order to limit the use of the available space to a maximum of 2.5 m³ thermochemical material
- No heat losses during storage:** this is an intrinsic material property of thermochemical storage technology, thereby enabling long-term storage

The footer contains contact information, a newsletter subscription form, and social media links for Twitter, Google+, Facebook, and LinkedIn. It also includes the European Commission logo and the text: "HORIZON 2020 RESEARCH PROJECT This project is supported by the European Commission under the Energy Theme of the Horizon 2020 for research and Technological development. Grant Agreement number: 680450. H2020-EeB-2014-2015/H2020-EeB-2015. Copyright ©2015-2019 CREATE. All rights reserved."



4 Introduction

The Deliverable D9.1 is a public document of the CREATE project, delivered in the context of WP9, Task 9.1 Plan for the Dissemination and Exploitation of the project's results and Communication Plan. The objective of WP9 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 CREATE 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.createproject.eu.

The website is not intended to be static. News and events section as well as the rest of the content will be twice 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 once a month) 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 CREATE project website - public has been designed, provisioned and deployed on the internet. The site is hosted by FENIX – WP9 leader, under domain createproject.eu. 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?

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.



5 Design and registration data

The CREATE project website has been created during the early project stage and launched under the <http://www.createproject.eu/>. Webhosting was bought in provider WEDOS, registration data are given in Picture 1 and Picture 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@createproject.eu” was created to be further used for social network profiles creation – registration, newsletter campaign, etc. Email is maintained by FENIX.



Figure 2 - Webhosting registration data

Information

Order No.	3215062391
Status	active
Ordered	10.09.2015 09:38:11
Created	11.09.2015 09:05:47
Expiration	11.09.2016 (290 days) (renew)
Operating system	Linux
WWW size *	94 MB
E-mails size *	1 MB
Database size *	6 MB
Accounting without VAT	no
Before expiration	request for payment with notifications

support IPv6 (AAAA records)

 only if the domain uses our DNS servers
[\(more info about IPv6\)](#)

Internal Web address:
<http://110198.w98.wedos.ws/>

Services addresses

WWW IPv4	46.28.105.139
WWW IPv6	2a02:2b88:1:4::82
FTP	110198.w98.wedos.net
MX	wes1-mx1.wedos.net wes1-mx2.wedos.net
IMAP(S)	imap-110198.m98.wedos.net
POP3(S)	pop-110198.m98.wedos.net
SMTP(S)	smtp-110198.m98.wedos.net
Webmail	https://wmail.wedos.net/

Our DNS servers:
 ns.wedos.net
 ns.wedos.eu
 ns.wedos.cz
 ns.wedos.com

NSSET to CZ.NIC WEDOS

[Webmail](#)
[WebFTP](#)

FTP accounts [create new]

login	status
lv110198	active

Database [create new]

name	type	status	size *
d110198_4d929f5	MySQL	active	6 MB

Aliases [manage aliases]

Webhosting has no alias

E-mail boxes [manage mailboxes] [e-mail settings]

name
info

Optional services activated [service settings]

name
Extra package

Figure 3 - Domain registration data

Information

Order number	3115206528
Status	active
Webhosting	createproject.eu [3215062391]
Ordered	08.09.2015 12:12:07
Established	10.09.2015 08:50:43
Expiration	10.09.2016 (289 days) (renew)
Accounting without VAT	no
TLD	eu (EURid)
Owner contact	c24162280
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		



6 Website description

The website has been set up under the address www.createproject.eu. The site is hosted by FENIX as WP 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 events and news
- all public material that will be generated by the project
- links to social network profiles
- newsletter subscription
- contact information
- search engine button

The second part of the website is a private section that is only available to the FENIX as an administrator and can be accessed via log-in credentials. Document sharing for the project team is done via Microsoft Sharepoint and hosted by TNO – project coordinator.

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.

6.1 Home page

The Home page of the CREATE website contains project description, goal and impact. This part of the website will remain more or less static throughout the 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 project identifiers and EU collaboration is mentioned.



Figure 4 - Home page section





6.2 About project page

Project description page presents the overall concept and expected impact of the project such as innovation, system features, targeted market, info about demonstration buildings.

Figure 5 - About project section

The CREATE concept is based on advanced compact thermal storage for existing dwellings using thermochemical storage materials. The heart of the system consists of a vessel that contains a salt that is hydrated and dehydrated, which generates an energy effect. In the time between de-hydration and hydration the energy is stored in the salt. We envision two applications for the heat battery:

- decentral thermal energy storage bridging supply and demand of renewable thermal energy
- decentral grid-connected storage for increasing energy efficiency and introducing flexibility in the electricity grid, e.g. using a heat pump.

The technology to be developed will be able to perform well for both applications. The following ideas and assumptions are the starting point for the development of this overall concept:

- Delivery of economic value is the basis for our development (market-pull)
- A breakthrough on the level of storage materials is required to yield affordable, stable, high storage density materials
- Critical components and systems geometry need to be optimized
- Demonstration is required to prove the economic and technological viability
- For successful exploitation, the full knowledge, value, and supply chain has to be mobilized

Demonstration

Implementation of the CREATE concept is foreseen in typical European dwellings. MOSTOSTAL will install a full scale solar TCS system delivered by the CREATE project. The system will be installed into a single family house in Warsaw, Poland, where a land climate delivers both cold winters and warm summers. The building was built in 2009 to modern standards. It features 12 cm mineral wool insulation of walls and 20 cm mineral wool insulation of the roof. Heat is produced locally in a bifunctional gas boiler. There is no mechanical ventilation.

The CREATE concept is to develop stabilized storage materials with preserved storage density, improved stability and low price, and package them in optimized heat exchangers, using optimized storage modules. Existing component hardware and infrastructure will be optimally used, to ensure the outcome of the programme. It will be tested as full scale demonstration set-up in a building, with regulatory/normative, economic and market boundaries taken into account. The CREATE system will be capable of using and delivering heat at $-100\text{ }^\circ\text{C}$, with minimal thermal losses, high cycle stability and demonstrated economic feasibility. To ensure successful exploitation, the full knowledge, value, and supply chain are mobilized in the present consortium.

Contact
+31 (0)95 354 08 18
christophe.hoegaerts@ino.nl

Newsletter
Subscribe to our newsletter to get the latest news
Email address:

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6.3 Public Documents page

The Documents section is split into subsections Brochures, Presentations, Papers, reports, Videos and Others (subsections can be added based on the project requirements at any time) and will contain all material that has been published and is thus publicly available (respecting copyright issues).

Figure 6 - Public Documents section

The screenshot shows the 'Public Documents' section of the CREATE website. At the top, there are social media links for LinkedIn, Facebook, Google+, and Twitter. The main navigation bar includes Home, About project, Documents (highlighted), News & Events, Gallery, Partners, and Contact. Below this, a search bar and a red 'Login' button are visible. The 'Public documents' section displays six categories, each with a count of 0: Brochures (0), Presentations (0), Papers (0), Reports (0), Others (0), and Videos (0). A 'Display Num' dropdown menu is set to 20. The footer contains the European Commission logo, contact information for Christophe Hoegaerts (+31 (0)65 354 98 16, christophe.hoegaerts@tno.nl), a newsletter subscription form, and social media icons for Twitter, Google+, Facebook, and LinkedIn. Copyright information for 2015-2019 CREATE is also present.





6.4 Member login

The secure area is accessed only by the website administrator FENIX, furthermore, full access could be also granted to partners, or the European Commission Officer, if necessary at any time. In this section the administrator can manage to update section News and Events, upload public documents, upload pictures, photos to the Gallery and make changes of the website content.

Figure 7 – Private section

The screenshot displays the private section of the CREATE website. At the top, there is a navigation bar with social media links for LinkedIn, Facebook, Google+, and Twitter. Below this is the CREATE logo and a search bar. A main navigation menu includes links for Home, About project, Documents, News & Events, Gallery, Partners, and Contact. The central focus is a login form with fields for Username and Password, a Remember me checkbox, and a Login button. Below the login form are links for 'Forgot your password?' and 'Forgot your username?'. The footer contains contact information, a newsletter subscription form, and social media icons. It also includes text about the project's funding by the European Commission under the Horizon 2020 program, the grant agreement number 680450, and the project acronym H2020-EaB-2014-2015/14-2020-EaB-2015. Copyright information for 2015-2019 is also present.



6.5 News & Events page

This page will present a list of 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 as well on the Home page.

Figure 8 – News & Events section

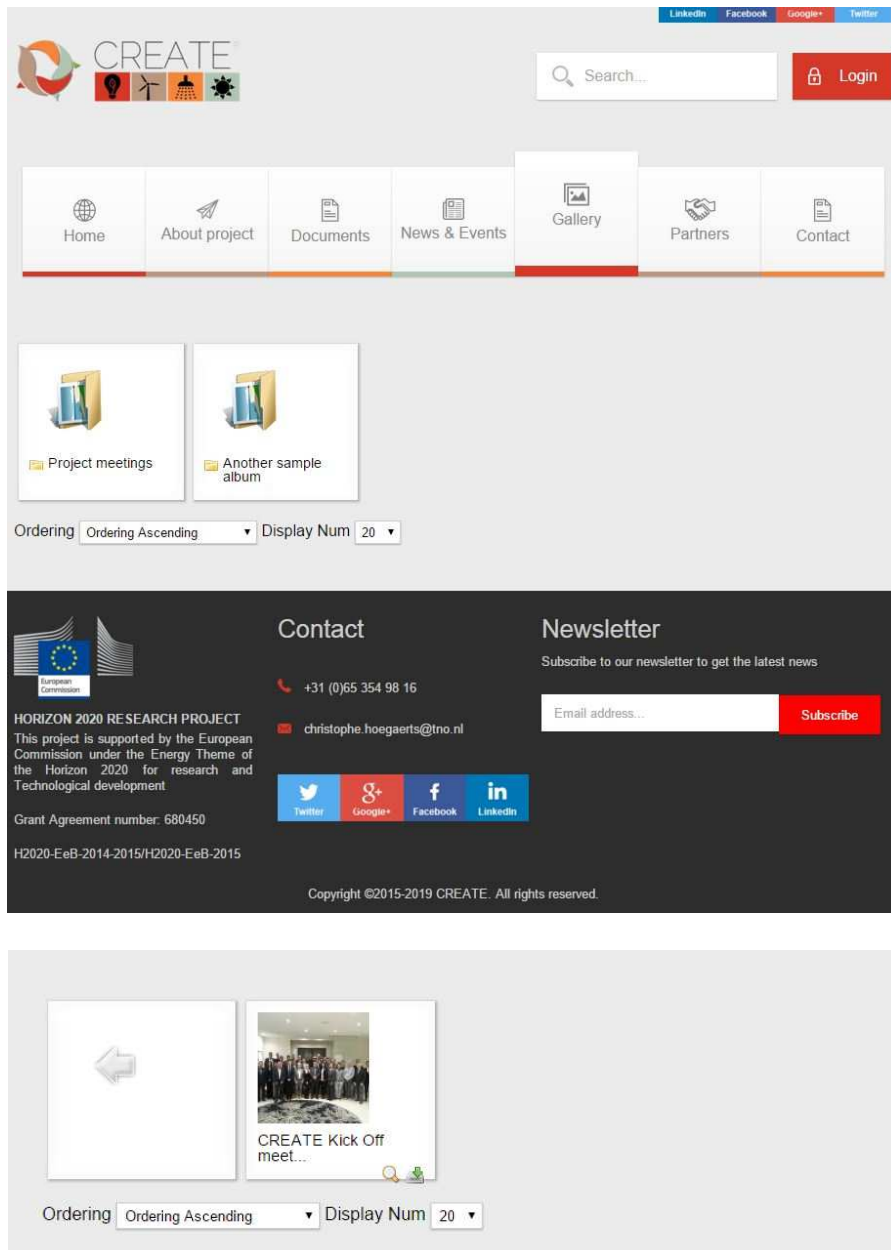
The screenshot shows the 'News & Events' section of the CREATE website. At the top, there is a navigation bar with icons for Home, About project, Documents, News & Events (highlighted), Gallery, Partners, and Contact. A search bar and a Login button are also present. The main content area is titled 'Planned Events' and features a 'Sample future event' scheduled for 30 Nov 2015. Below this, there is a section for 'Passed Events' with a 'Social network profiles' announcement dated 10 Nov 2015. The footer includes contact details, a newsletter subscription form, and logos for the European Commission and Horizon 2020.



6.6 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 9 - Gallery section

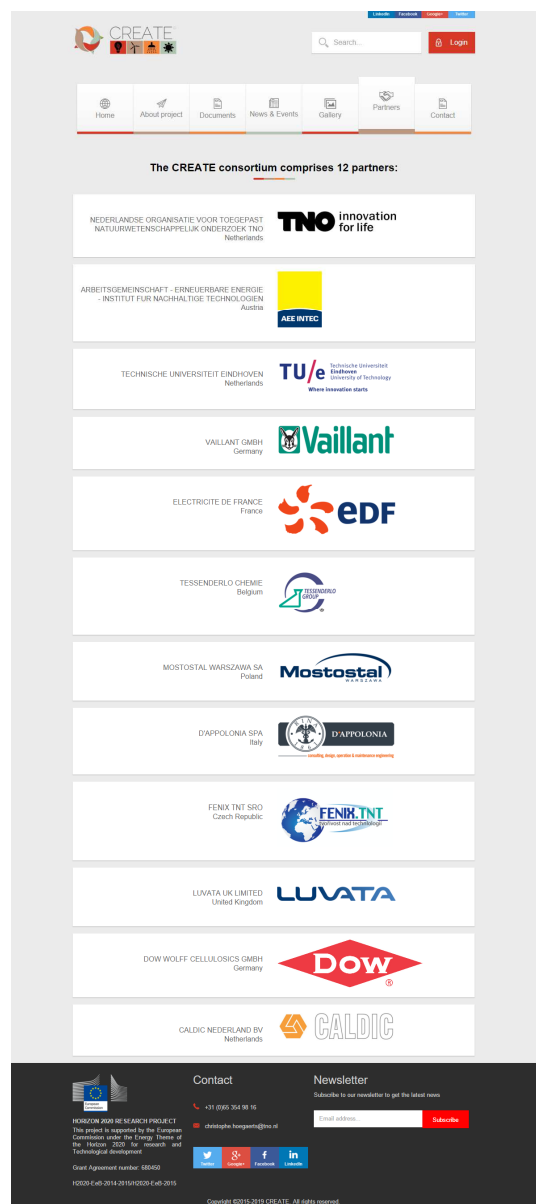




6.7 Partners page

This part of the web site contains information about the partners involved in the CREATE project. It shows each partner's logo and provides a short description and a link to the partner's homepage. This part of the website will also be static, except for the case of partner changes in the project.

Figure 10 - Partners section





6.8 Contact page

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

Figure 11 - Contact section

For further project information, please contact

Ir. Christophe Hoegaerts, Project Coordinator
NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO
+31 (0)65 354 98 16
christophe.hoegaerts@tno.nl

If you are looking for cooperation, partnership, clustering activities please fill in the form with the contact.

All fields with an * are required.

Name *
Name *

Email *
Email *

Subject *
Question

Message *
Please include as much detail as possible.

Are you human?
Type the text

Send message!

Contact
+31 (0)65 354 98 16
christophe.hoegaerts@tno.nl

Newsletter
Subscribe to our newsletter to get the latest news
Email address... Subscribe

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Grant Agreement number: 680450
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6.9 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. Newsletter subscription is linked to the info@createproject.eu where all subscribers are collected for Newsletter campaign.

Figure 12 - Contact section

The screenshot displays the 'Contact' section of the CREATE website. At the top, there is a navigation bar with icons for LinkedIn, Facebook, Google+, and Twitter. Below this is the CREATE logo and a search bar. The main navigation menu includes 'Home', 'About project', 'Documents', 'News & Events', 'Gallery', 'Partners', and 'Contact', with 'Contact' being the active page. A 'Public documents' section follows, listing categories: Brochures (0), Presentations (0), Papers (0), Reports (0), Others (0), and Videos (0). A 'Display Num' dropdown is set to 20. The footer contains the European Commission logo, project details (HORIZON 2020 RESEARCH PROJECT), contact information (+31 (0)65 354 98 16, christophe.hoegaerts@tno.nl), social media links, and a newsletter subscription form with an 'Email address...' field and a 'Subscribe' button. Copyright information for 2015-2019 CREATE is also present.



6.10 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 CREATE project website cookies policy was also implemented.

Figure 13 – Cookies policy

The screenshot shows the CREATE project website. At the top, there is a navigation bar with social media links for LinkedIn, Facebook, Google+, and Twitter. Below this is the CREATE logo and a search bar. A main navigation menu includes links for Home, About project, Documents, News & Events, Gallery, Partners, and Contact. The main content area features a large image of solar panels on a roof. Below the image, there is a section titled 'Objectives' with the following text:

The main aim of CREATE is to develop and demonstrate a heat battery, i.e. an advanced thermal storage system based on Thermo-Chemical Materials (TCMs), that enables economically affordable, compact and loss-free storage of heat in existing buildings.

The CREATE technology is a compact thermal energy storage system for the buildings sector. It will be the game changer in the transformation of our existing building stock towards near-zero energy buildings. The project will release the full potential of renewable energy by enabling effective integration of heat storage into Europe's building stock.

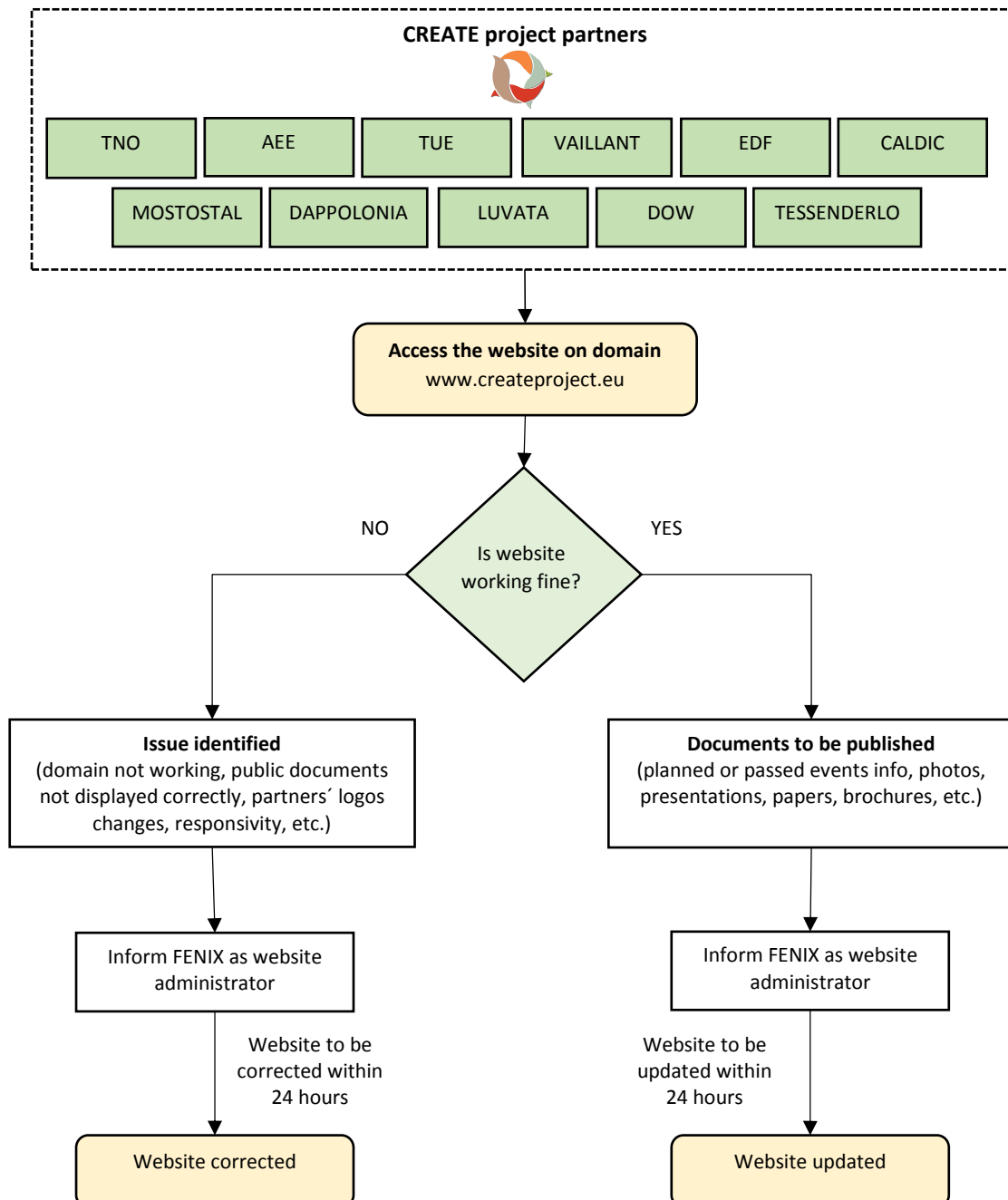
At the bottom of the page, a cookie policy notification states: "This website uses cookies to ensure you get the best experience on our website." with an "Understood." button.



6.11 Working with the website

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

Figure 14 - Working with the website (problem solving, updating)





7 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.)
- partners' expectations from the project (discussed during Kick off meeting) to be added into the Partners section
- short video clip introducing CREATE project displayed on the home page
- translation into partners' languages to overcome language barrier

8 Conclusion

The on-line CREATE 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 CREATE 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.