

HEALING BAT

A stylized orange bat logo with its wings spread, positioned to the right of the word 'BAT'.

D7.2 WEBSITE OF THE PROJECT

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FI Group

V1.0
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This project is part of BATTERY2030+, a large-scale European initiative to invent the sustainable batteries of the future, which has received funding from the European Union's Horizon 2020 programme under Grant Agreement No. 957213.

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EXECUTIVE SUMMARY

HEALING BAT's details

Project name	Advanced sensing, monitoring and self-HEALING mechanisms to self-repair BATteries
Project acronym	HEALING BAT
Grant Agreement number	101104006
Duration and dates	48 months (1 June 2023 – 31 May 2027)
Call and topic	HORIZON-CL5-2022-D2-01-06: Embedding smart functionalities into battery cells (embedding sensing and self-healing functionalities to monitor and self-repair battery cells)
Granting authority	European Climate, Infrastructure and Environment Executive Agency (CINEA), under the powers delegated by the European Commission
Official project website	healingbat.eu

The HEALING BAT consortium

N°	NAME	ROLE	COUNTRY
1	Technische Universität Dortmund (TUD)	Coordinator	Germany
2	Helmholtz-Zentrum Berlin für Materialien und Energie GMBH (HZB)	Beneficiary	Germany
3	Technische Universiteit Delft (DEL)	Beneficiary	The Netherlands
4	Idneo Technologies SAU (IDN)	Beneficiary	Spain
5	Fundació Institut de Recerca de l'Energia de Catalunya (IREC)	Beneficiary	Spain
6	F. Iniciativas, Consultadoria e Gestao, Unipessoal, LDA (FIG)	Beneficiary	Portugal
7	Suprapolix BV (SUP)	Beneficiary	The Netherlands
8	Paul Scherrer Institut (PSI)	Associated partner	Switzerland
9	Centre for Process Innovation Limited LBG (CPI)	Associated partner	United Kingdom
10	Coventry University (COV)	Associated partner	United Kingdom



Project's summary

HEALING BAT aims to develop and implement self-healing concepts and materials in the critical battery components used in conventional Li-S batteries and extrapolate the ideas to develop a new class of self-healing structural batteries based on Li-S by investigating at the cell & component level.

It will be built a toolbox of self-healing materials, sensors, and a customized Battery Management System to maximize the performance of the produced Li-S battery in terms of Quality, Reliability, and lifetime and to avoid or repair occurring damages. The BMS's goal is to govern the flow of energy to and from the battery system, monitoring sensor data with computational methods to identify events indicating degradation, as well as initiate self-healing actions.

The resulting solution will revamp the European sector of rechargeable batteries with high round-trip efficiency energy storage for numerous applications, as specified in the EU Green Deal, consequently promoting innovative ideas needed to develop future sustainable batteries which demand fewer resources and create the groundwork for EU competitiveness.

The project will be aligned with the [Battery2030+](#) large-scale initiative within their "Integration of smart functionalities" theme, which supports sensing and self-healing.

Document details

Deliverable type	DEC – Websites, patent filings, videos, etc
Deliverable n°	D7.2
Deliverable title	Website of the project
Lead beneficiary	Fi Group
Work package and task	WP7, T7.2
Document version	V1.0
Contractual delivery date	M3 – August 2023
Actual delivery date	31 August 2023
Dissemination Level	PU – Public
Purpose	The main aim of this document is to provide a short overview of the HEALING BAT project website, developed under Work Package 7. This public website serves to present the project's objectives, work packages and consortium, as well as to disseminate project related events, activities, results and any project documents or materials. It is also the central communication channel, linking to its social networks, newsletter, etc. This document describes the focus, objectives, and structure of the project website, and explains its development process.

Document's revision history

The following table describes the main changes done in the document since it was created.

REVISION	DATE	DESCRIPTION	AUTHOR (PARTNER)
V.0.1	30 August 2023	First draft	Marina Marcos Macarro (FI Group)
V.1.0	31 August 2023	First version	César Antonio Arias Contreras (FI Group)

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1. INTRODUCTION TO THE PROJECT'S WEBSITE

1.1. Scope

This document showcases the deliverable D7.2 - Website of the project, which belongs to task T7.2 - Communication activities and marketing materials, framed within the work package WP7 - Exploitation and Dissemination of the project HEALING BAT.

The **objective of WP7** is to maximize the impact of the European Commission funded project and to raise awareness among the different target audiences which include diverse groups such as European citizens, policy makers and the scientific community that may use this project as a starting point for new developments, thus leading to a virtuous circle of research and innovation.

From the variety of dissemination and communication materials aimed at the different target groups, the website allows the consortium to **deliver information** on the project's progress and make **developments available** to the public in an easy and agile manner.

The website will constitute an **important source**, if not the main, of information for public authorities, academics, and technical audiences, keen on the sustainability of batteries, who will benefit from the reports and research data made available in the project's website. What is more, the media will also find, in the website, a reliable source of information for their research and articles. The website will also present the project's scope, activities, and results in an accessible manner for a broader audience.

The website has been created at the beginning of the project and will be **active for seven years**, including three years after the project's ending, thus ensuring the exploitation of its results. The design has followed the project's **brandbook** and is meant to be **visually attractive** and **easily navigated through**.

The LEARN project website is available at: www.healingbat.eu

1.2. Target audience

This website is addressed to the main target groups of HEALING BAT's communication, dissemination, and exploitation. This includes:

- The **European society**, especially people interested in science, technology, sustainability, and European Union affairs.
- The European academia and **research community**
- **Business** professionals, companies, and associations in the field of batteries, technology, and sustainability.
- Professionals working on **similar projects** and initiatives at the European level.
- **Policymakers** at the European Union and national levels.

To reach all these audiences at the European level, the website has been developed in **English language**, specifically its British English. This choice will facilitate content creation and updates of the website, while also maximising its reach for a broader audience.

1.3. Specific objectives

The main objectives of the HEALING BAT website are:

1. To serve as the **central communication channel** of the project.
2. To **build interest** and gain visibility of the project's scope, activities, and results.

3. To raise awareness about its **field of research** (sustainable and competitive European batteries) and the key role of European Union funding in achieving it.
4. To engage with the **project's stakeholders**: research community, policymakers, and business associations, among others.
5. To comply with the **requirements for projects** that receive funding from the European Union: acknowledgement of European Union funding, availability of public project deliverables and activities, among others.

1.4. Main contents

First, the website presents **general information** on the project, such as its scope, work packages and consortium members. This content is available on its homepage and is meant to be static, although some specific modifications or updates can be made over the course of the project. It is presented in a written format, together with some visuals that make it more appealing to online readers.

During the whole project, the website will be frequently fed with **new content** on any project updates, activities, events, or results, as well as in-depth content on specific topics related to its tasks or field of research. These will be published through web posts, in a blog format, which will also contribute to improving the Search Engine Optimisation (SEO) of the whole website.

The website will also host the project's **public materials and deliverables**, in the form of embedded and/or downloadable documents, most of them in PDF format. These may include the project's promotional materials, scientific publications, public deliverables, newsletters, and press releases...

Finally, the website links to other **online communication channels** of the project, encouraging users to visit them. These include the project's social networks, subscription to its newsletter, and contact form. In the same way, those communication channels will link to the project's website, allowing a transfer of traffic from users and thus increasing the website visits.

1.5. Development process

The first task involved the establishment of the website's scope, target audience, objectives, tree structure and main contents, considering all the guidelines provided in the Grant Agreement for this deliverable D7.2 - Website of the project, as well as for deliverable D7.1 - Plan for Dissemination and Exploitation, including Communication activities. More information on this may be found in section [1. Introduction to the project's website](#).

Having this strategy clear, the domain "www.healingbat.eu" was chosen and a **hosting** was purchased that fulfils all the requirements in terms of available space, functionality, security, and privacy, among others. Moreover, an **SSL (Secure Sockets Layer) Certificate**, **WordPress**, and **Microsoft Office365** accounts were also purchased to ensure security, facilitate content management and provide an official email account, respectively. More information on this may be found in section [4.1. Technologies, tools, and security](#).

Moreover, **different accounts** were created to set up other online communication channels of the project, and thus, be able to link them on the website. This includes a Google account to manage the Google Analytics and Google Search Engine tools, a MailChimp account for the project newsletters, and profiles on LinkedIn, Twitter, and YouTube to serve as the project's social media channels.

Meanwhile, a **sketch of the website's design** was created, using the graphic design software Adobe Illustrator, and considering the previously developed visual identity for the project, including its logotype, brandbook, typography, colours and suitable images, among other elements. Moreover, the design was thought to be visually appealing and offer an intuitive and accessible way to navigate

through the different contents, following the standard recommendations for a good User Experience (UX) and User Interface (UI). More details can be found in [ANNEX 1. HEALING BAT's brandbook](#) and [ANNEX 2. Sketch design for the website](#).

A **website developer** was contracted to execute the required design and build it in the real hosting and domain, using WordPress as the Content Management System (CMS). Several interactions, revisions and corrections followed to reach the current version of the website, with an appealing design, a good structure, easy navigation and all the required initial contents.

However, the website is a **live and flexible tool**, meant to be constantly updated and fed with new content. For this reason, it will keep changing over the course of the project, adapting it to its needs and objectives, especially regarding its communication, dissemination, and exploitation.



2. WEBSITE STRUCTURE AND CONTENTS

2.1. Overall tree structure

The website is structured in the following pages and sections:

- Homepage: www.healingbat.eu
 - About: www.healingbat.eu/#abouttheproject
 - Consortium: www.healingbat.eu/#projectconsortium
 - Contact: www.healingbat.eu/#contactourteam
- News & Articles: www.healingbat.eu/news
- Events: www.healingbat.eu/events
- Resources: www.healingbat.eu/resources

2.2. Header

The website header first displays the **project logo** on the upper left corner, linking to the homepage. It also contains the **website menu**, linking to:

- The homepage sections ABOUT and CONSORTIUM.
- The webpages NEWS, EVENTS and RESOURCES.
- The external website BATTERY2030+, a European initiative in which the project takes part.

Thus, this menu offers the user an easy and accessible way to navigate through the entire website.

Finally, the header's upper right corner includes links to the project's **social media networks** (LinkedIn, Twitter, and YouTube), as well as to the **contact form** on the homepage. This part enables the user to access other communication tools of the project and further engage with it.



Image 1. Website header

2.3. Footer

The first part of the footer displays the **project's logo** in the centre, the **BATTERY2030+'s logo** on the right, and the **social media icons** on the left. Thus, it provides visibility and quick access to the project's website, the BATTERY2030+'s website and the project's LinkedIn, Twitter, and YouTube accounts.

Later, the footer prominently displays the **European Union emblem** and funding statement, together with the proper disclaimer, thus complying with all the requirements in terms of acknowledging funding from the European Union.

At the bottom, the user may find the **copyright notice** and links to the webpages informing on all **legal matters** regarding this website: its terms of use, privacy policy, and cookie policy.

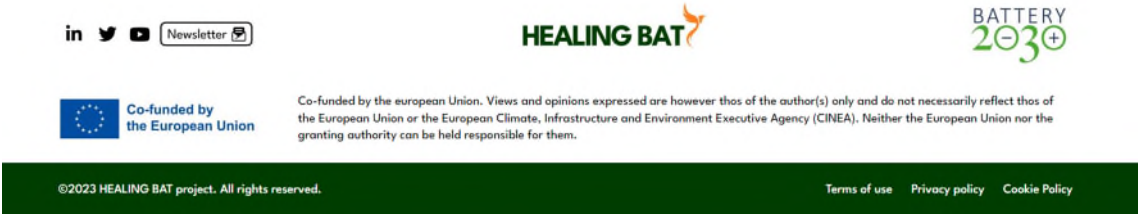


Image 2. Website footer

2.4. Homepage

- 1. About the project: brief presentation of the project’s scope.

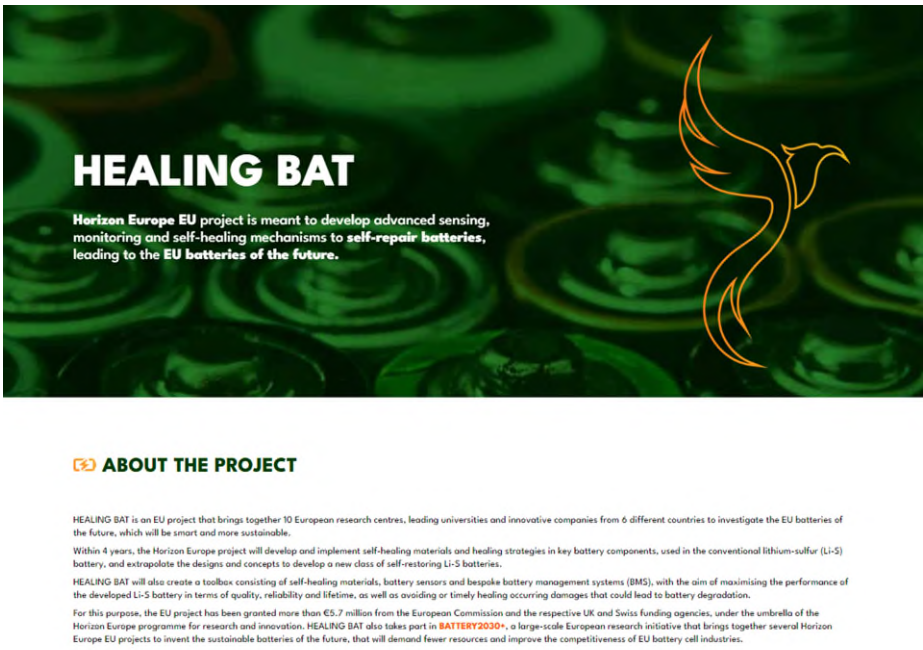


Image 3. Homepage: About the project

- 2. Work packages: information about the different work packages, including their scope, duration, leading partner, and expected results.



Image 4. Homepage: Work Packages

3. The project consortium: a brief description of each partner, including their logos and links to their websites and social media accounts. This takes the form of an interactive map, where users can click on any partner logo and a box will open containing its information.

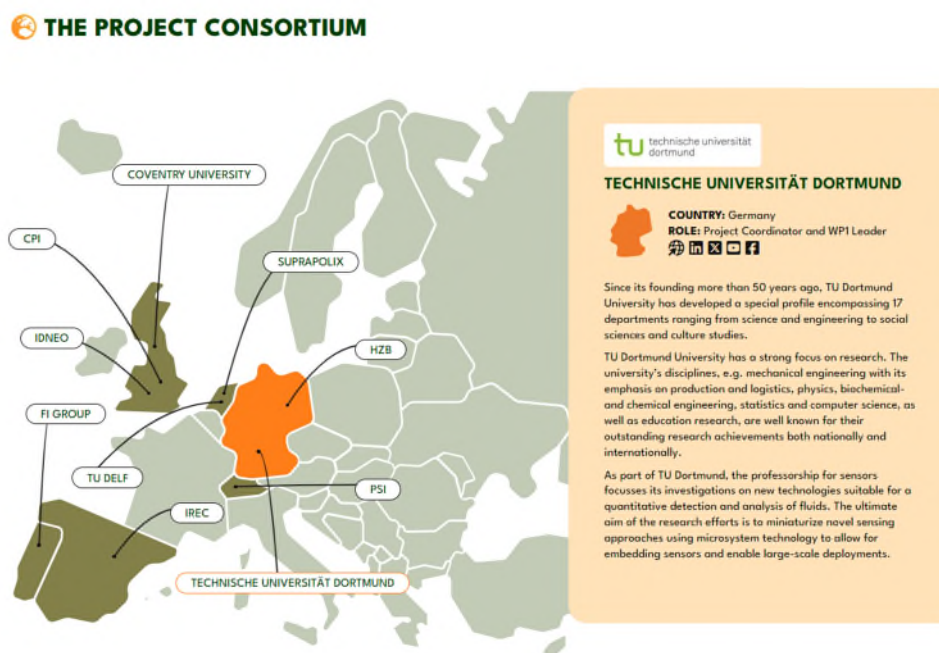


Image 5. Homepage: The project consortium

4. Latest news and articles: this section will display the three latest news posts that have been published on the website, allowing the user to also access the full archive.

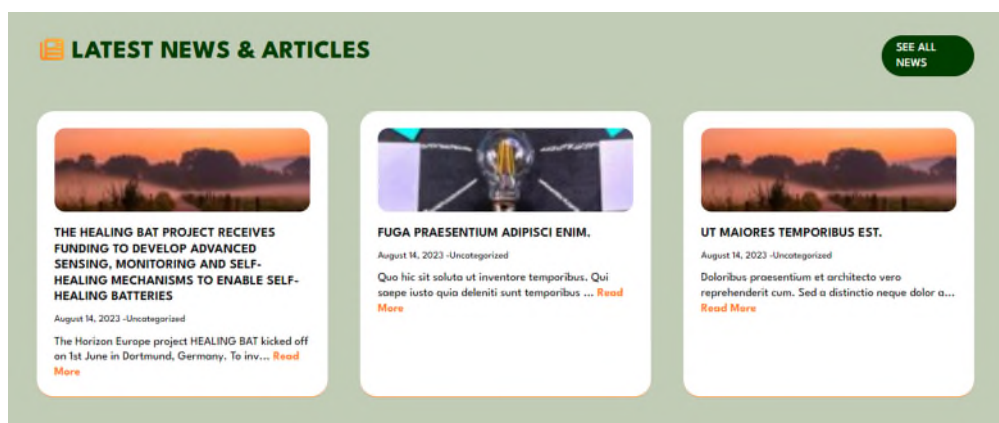


Image 6. Homepage: Latest news & articles

5. Events: the two latest events posted on the website will be displayed here, allowing the user to access the full archive.

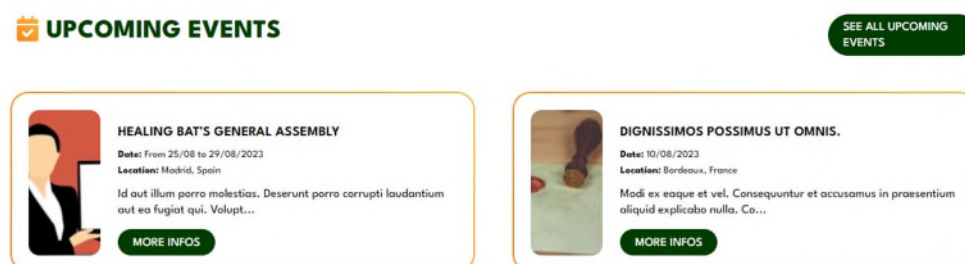


Image 7. Homepage: Events

6. **Resources library:** this banner will grant access to the resources page, where the user can find different downloadable files, including all promotional materials, public deliverables, scientific publications, and newsletters or press releases of the project.

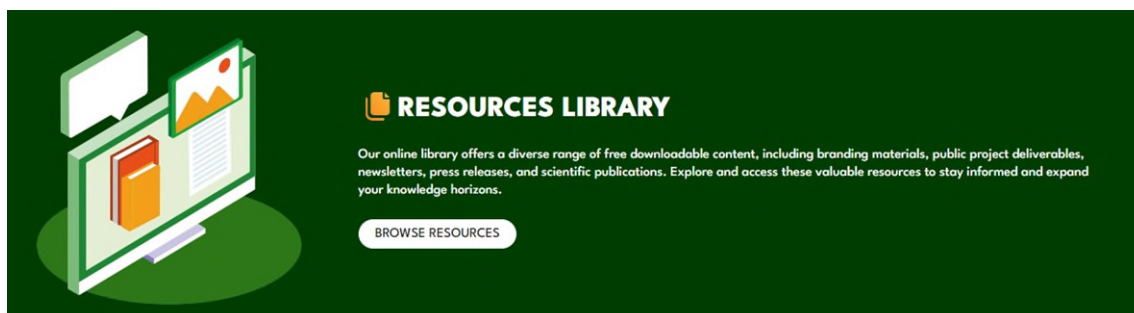


Image 8. Homepage: Resources library

7. **Subscription form:** where users can easily subscribe to receive the project newsletters. This form is connected to MailChimp, an email marketing tool to design, send and manage all the email communications from the project, as well as the subscribers list.

 SUBSCRIBE TO OUR NEWSLETTER!
NEVER MISS A THING ABOUT HEALING BAT

E-mail address  Name

SUBSCRIBE

Image 9. Homepage: Subscription form

8. **Contact form:** allowing any user to send a message to the project's team, which will be received in the project's official email account "info@healingbat.eu". Each information request or collaboration opportunity will be addressed in an individual way, making the most of every opportunity to engage with the project's stakeholders and target groups.

 **CONTACT OUR TEAM**

First & Last Name Organization 

Email address Subject

I'm interest by your project...

☐ I have read and accept this website's Terms of Use and Privacy Policy. By submitting this form, I hereby declare accepting that my personal data are collected and processed for receiving communications about the HEALING BAT project.

SEND

Image 10. Homepage: Contact form

2.5. News & articles

The main scope of this webpage is to host the complete archive of all web posts containing **news and articles**, thus the blog part of the website. These posts will allow to frequently feed the website with new

contents, that will serve as hooks to **attract traffic** to the website from other channels like social media or the newsletter, while also improving its positioning in **search engines**.

The **subscription form** for the newsletter is also included in this webpage, allowing the user to quickly subscribe to receive all emails with updates and posts of the project.

A section to reflect the **media clipping** might also be included in the future in this webpage, if considered appropriate and helpful.

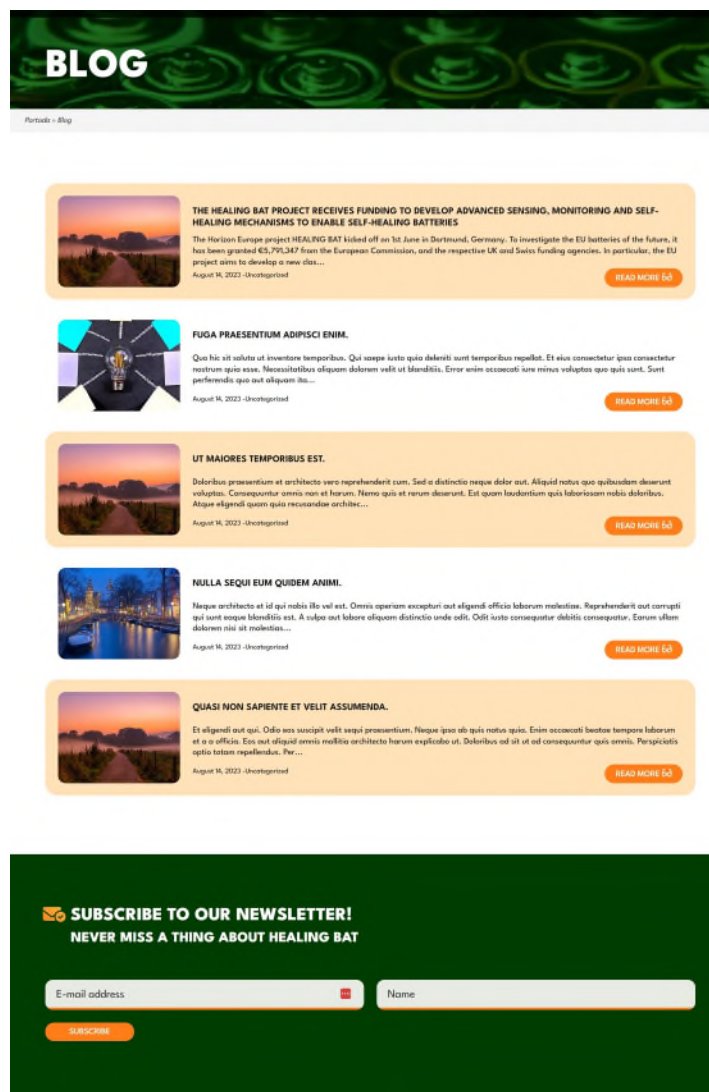


Image 11. Webpage: News & articles

2.6. Events

This page showcases all the **web posts about events**. These may include any fair, conference, workshop, exhibition, or any other online or offline event that the project organises or in which the project participates or attends.

Users will be able to navigate through all events posts, discover their date and location, and access to full post with further information on them. In there, a registration button might also be included, whenever appropriate.

At the bottom, this webpage also includes the **subscription form for the newsletter**.

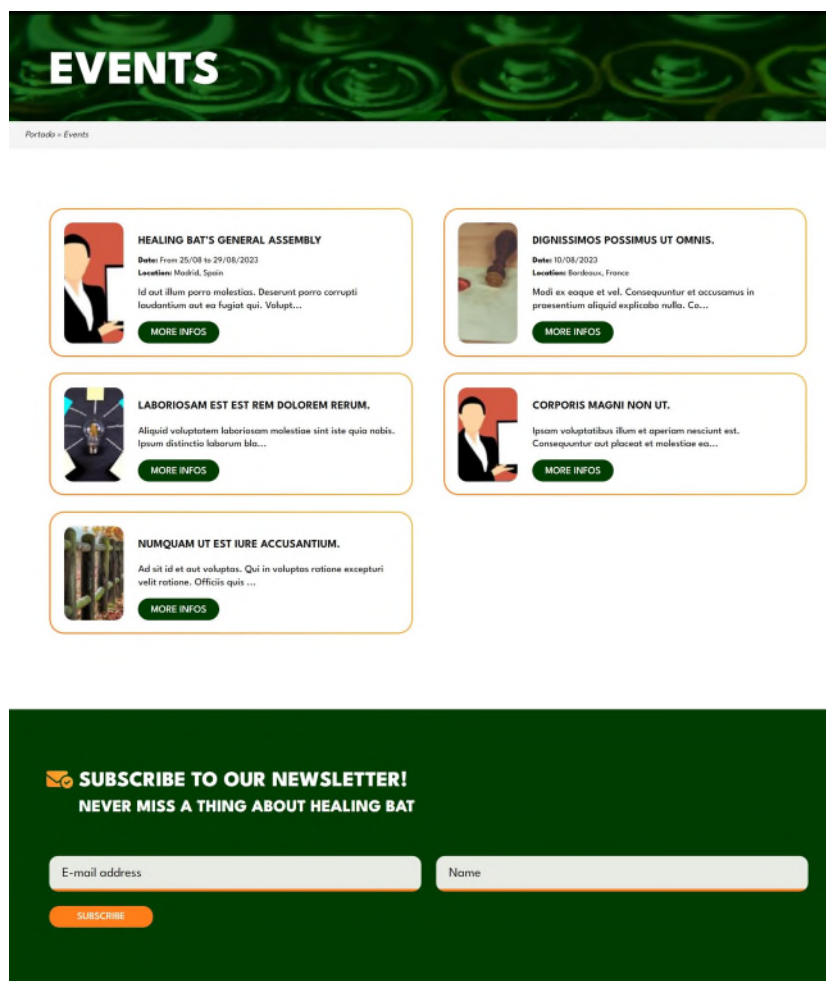


Image 12. Webpage: Events

2.7. Resources

This webpage is meant to host all **downloadable resources**, files, or materials related to the project. This may include:

- **Promotional materials:** branding and visually appealing materials that present information about the project in an easy and attractive way. They may include the project's logo and brandbook, its brochure and rollup, a general Power Point presentation, some infographics about specific topics...
- **Project deliverables:** to host all project deliverables meant to be disseminated in a public way, according to the Grant Agreement.
- **Newsletters and press releases:** including all the newsletters that have been sent so far and all the press releases that have been published.
- **Scientific publications:** gathering all publications in scientific journals and publications that have been made in the context of the project.

This webpage also ends with the **subscription form** for the project's newsletter.

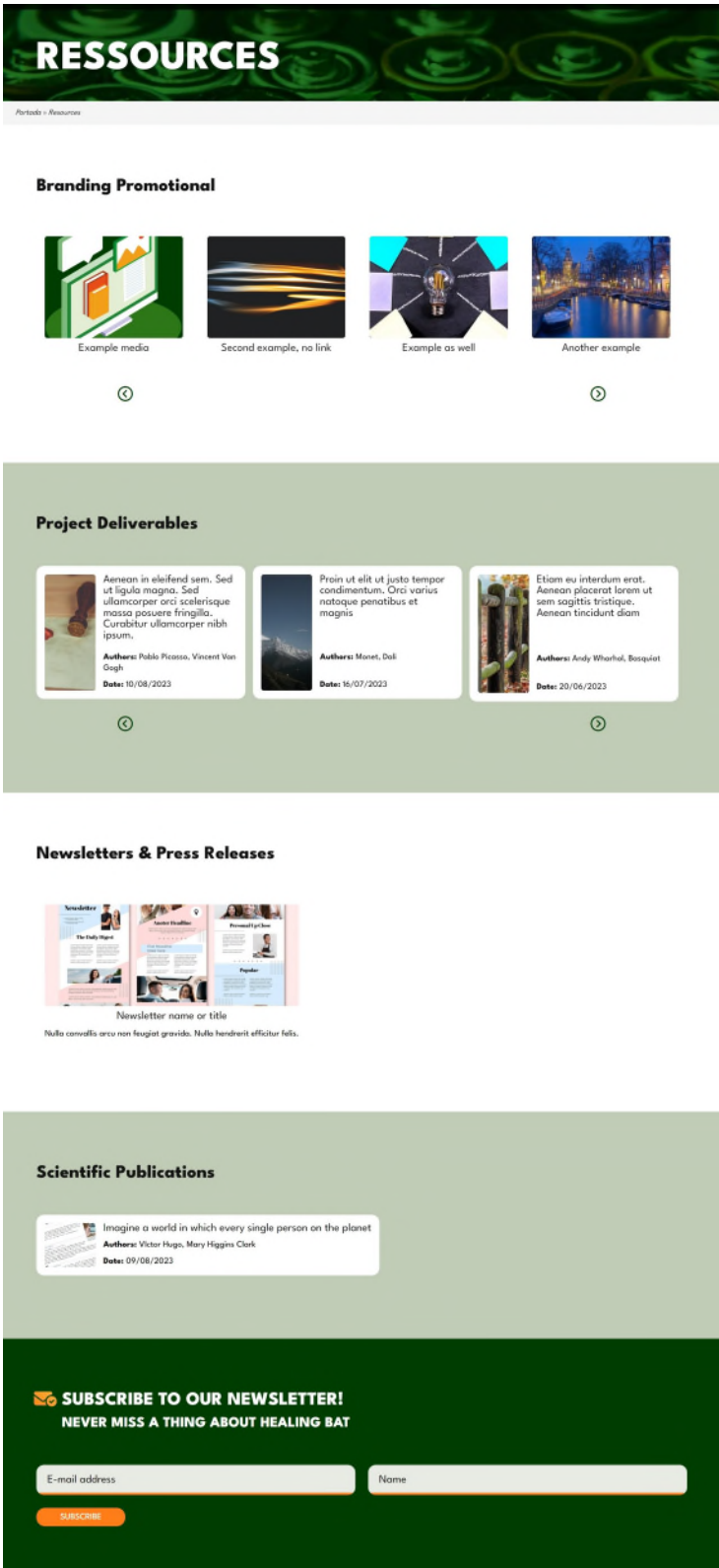


Image 13. Webpage: Resources

2.8. Pop-up

A pop up has also been set up with a **subscription form** for the newsletter. To avoid intrusiveness, this pop-up will only appear the first time a specific user visits the website.



3. WEBSITE DESIGN

First, the **project's logo** was established, after a creative process that involved different versions and formats provided to the whole consortium to choose the most appropriate one in a democratic process. The chosen logo includes the project's acronym, "HEALING BAT", that contains the concept of self-healing batteries. This naming is accompanied by an isotype showing the shape of a phoenix, which represents the concept of resurrection and self-healing, and it is connected to the history of the city of Dortmund, where the project's coordinator TU Dortmund is based and celebrated the kick-off meeting for the project.



Image 14. Logo of HEALING BAT

Following the logotype, the **full visual identity** for the project was developed, including:

- The **typography** League Spartan, with a rounded style that reminds of batteries.
- The primary and secondary **colours**, with green and orange tones that represent the concepts of sustainability, energy, and power.
- The **graphic style** for shapes, icons, and images.

All this was gathered in the **project's brandbook**, available in [ANNEX 1](#), and was applied to develop the **sketch for the website design**, which may be found in [ANNEX 2](#). This design was developed to be **visually appealing** and allow for an easy and **intuitive navigation** for users, considering the standard recommendations for a good User Experience (UX) and User Interface (UI).

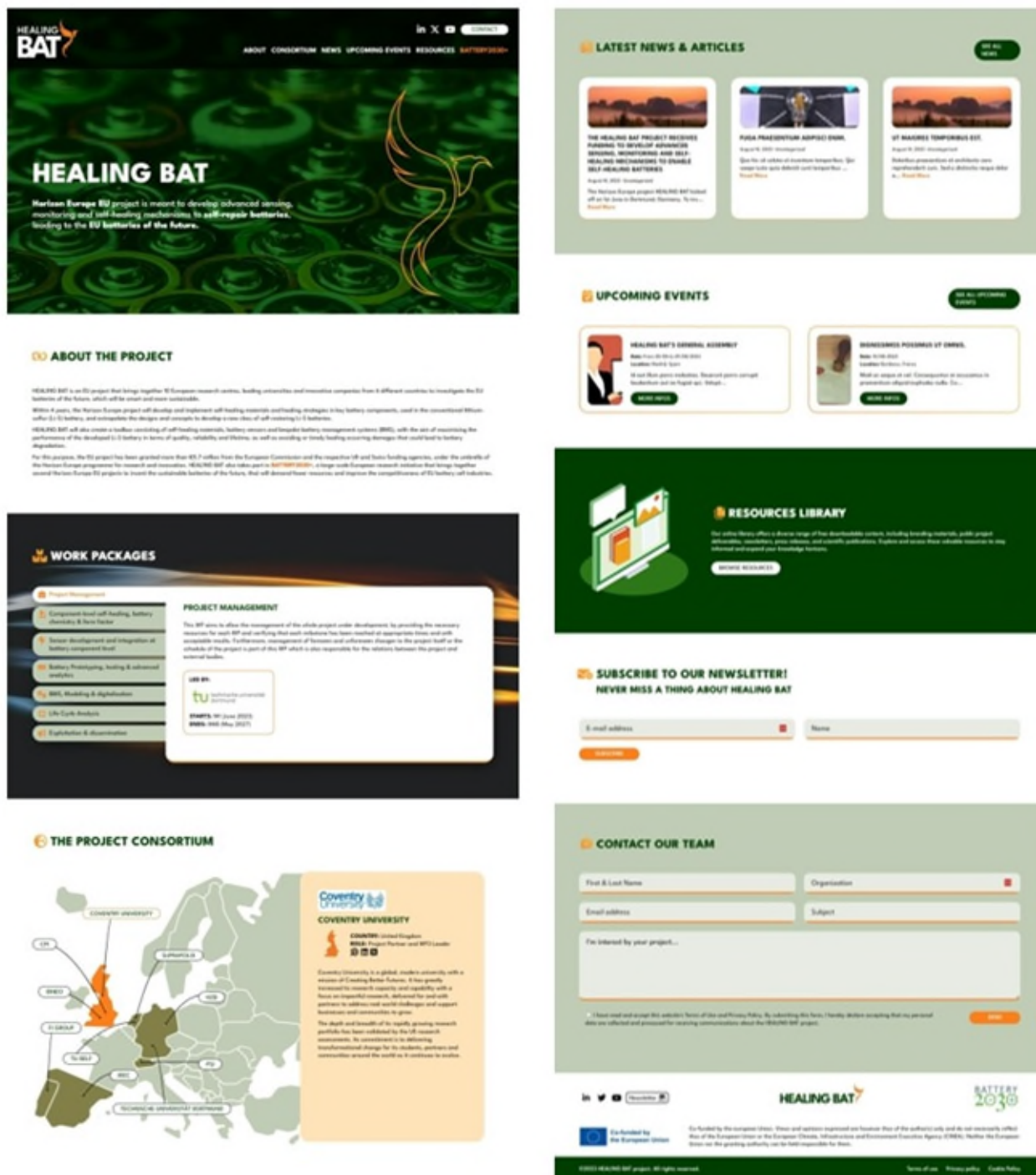


Image 15. Overview of website's design

4. CONFIGURATION, OPTIMISATION AND RESULTS

4.1. Technologies, tools, and security

The dominium “www.healingbat.eu” has been purchased to host the project’s website for a period of seven years, including the four years of project duration and an additional three years to ensure proper exploitation of its results.

A trust-worthy **hosting** supplier has been chosen, that also counts on enough space to host the website and all its contents, both in the present and future years of the project.

The website also counts on an **SSL (Secure Sockets Layer) Certificate** that verifies the website’s identity and allows an encrypted connection between servers and browsers, thus ensuring the security and privacy protection of any user that visits the website and preventing hackers to modifying or reading private information.

The website has been built using **WordPress**, a popular and standard Content Management System (CMS) that offers flexibility and accessibility to modify any element of the website content or design, in an easy way at any time. It also allows to publish new posts and any type of content on the website over the course of the project, without having any technical knowledge of web programming.

Moreover, an official email account has been created with the same domain, “info@healingbat.eu”, which is managed through a **Microsoft Office365 account**, benefitting from its security policy.

For the sake of analysing the performance of the website and studying its Key Performance Indicators (KPIs), it has been connected to **Google Analytics** and **Google Search Console**. These free tools offer valuable data on the website’s traffic (visits, users, sources, locations...) and on its performance on the Google Search Engine.

Finally, the website includes a subscription form for the project newsletter that is connected to **MailChimp**, a popular and standard email marketing tool that allows to manage the list of subscribers, design email templates, and create and distribute newsletters, among other functionalities.

4.2. Search Engine Optimisation (SEO)

The website has been configured to maximise its **organic positioning** in search engines.

A **keyword analysis** has been performed, considering the volume (traffic), difficulty and evolution of each keyword related to the project and its field of research. After which, all written content was revised and optimised for the following keywords:

- Branding keywords: HEALING BAT, BATTERY2030.
- Batteries: battery, battery cell, batteries of the future, sustainable batteries, Li-S battery, Battery Management System.
- Self-healing: self-healing, battery degradation.
- EU research: Horizon Europe, EU project, EU batteries, European research.

Other recommendations for **on-page Search Engine Optimisation (SEO)** are also being considered, such as: meta description of pages; slug of URLs, use of headlines; attributes, size and alternative texts of images; website’s speed; anchor text of links; mobile accessibility; among other elements.

SEO optimisation is a work in progress that will last for the whole duration of the website and whose results will show over time, supported by a good **content strategy** and an effective strategy for **off-page SEO**.

4.3. Legal compliance and data protection

HEALING BAT's website complies with all legal requirements present on the European **General Data Protection Regulation (GDPR)**.

In the **subscription form for the newsletter**, the user voluntarily provides his/her first name and email account to receive email communications of the project. By submitting the form, the user accepts the following statement:

"I have read and accept this website's Terms of Use and Privacy Policy. By submitting this form, I hereby declare accepting that my personal data are collected and processed for receiving communications about the HEALING BAT project."

This data will be processed by FI Group through the MailChimp email marketing software, a standard tool for digital marketing. The contacts will only be used with the purpose of sending email communications about the project, specifically the email newsletters foreseen in its communication plan. Moreover, these contacts will be erased after the project has ended, or sooner in case the user wants to voluntarily be erased from the subscription list.

The website also includes a **contact form**, where the user voluntarily provides his/her name and surname, organisation, and email address, for the purpose of sending a message directly to the project's team. This message will be received on the official project email "info@healingbat.eu", managed by FI Group through Microsoft Office365. This data will be used to contact back the message sender and he/she will be also included in the email communications of the project, since the user has accepted the same statement present in the newsletter subscription form when submitting the message. The same considerations on data protection will be applied to both forms.

On the other hand, the tool used to analyse the traffic to the website, **Google Analytics**, complies with this policy and does not collect any personal data from users that may identify them as individuals. On the contrary, it merely provides aggregated, statistic data about the main sources and locations of visits, among other items, by using website cookies.

All other matters regarding the website's legal compliance, privacy, or security can be found at the bottom of the website, in the links to access the webpages **Terms of use**, **Privacy policy** and **Cookie policy**.

4.4. Content strategy and analysis of results

An effective content strategy will be developed considering all the communication channels of the project, including the project's website, which will be frequently fed with new contents on the project's general information, activities, results, publications, etc.

As stated in the Grant Agreement, at least 1,000 visits will be achieved on the website per year. Traffic will grow over time thanks to the following actions:

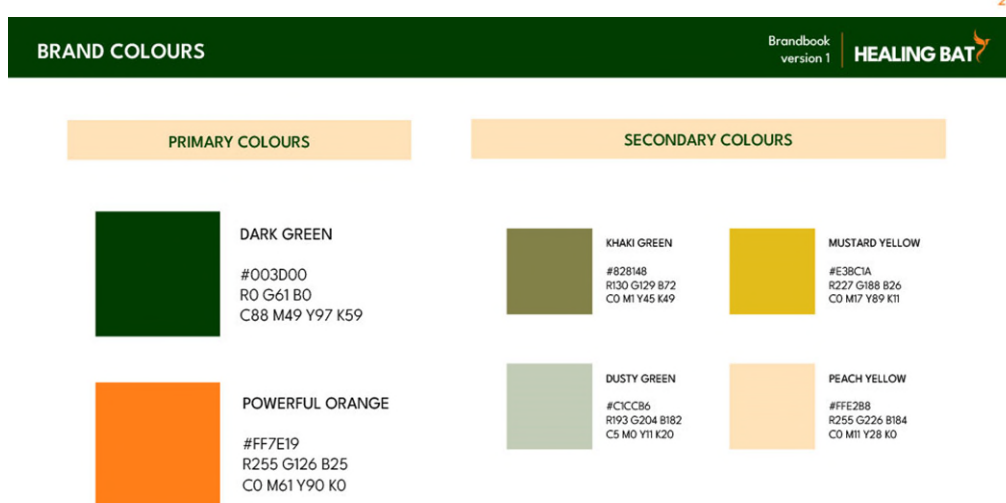
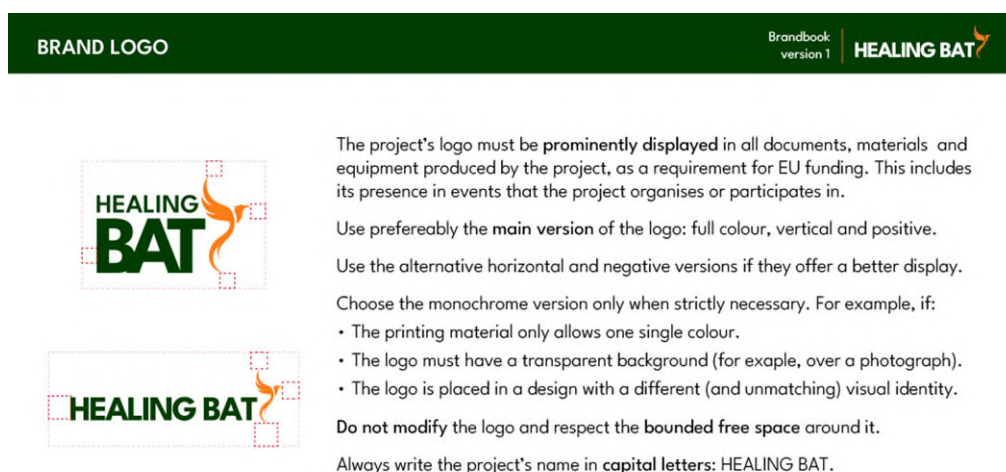
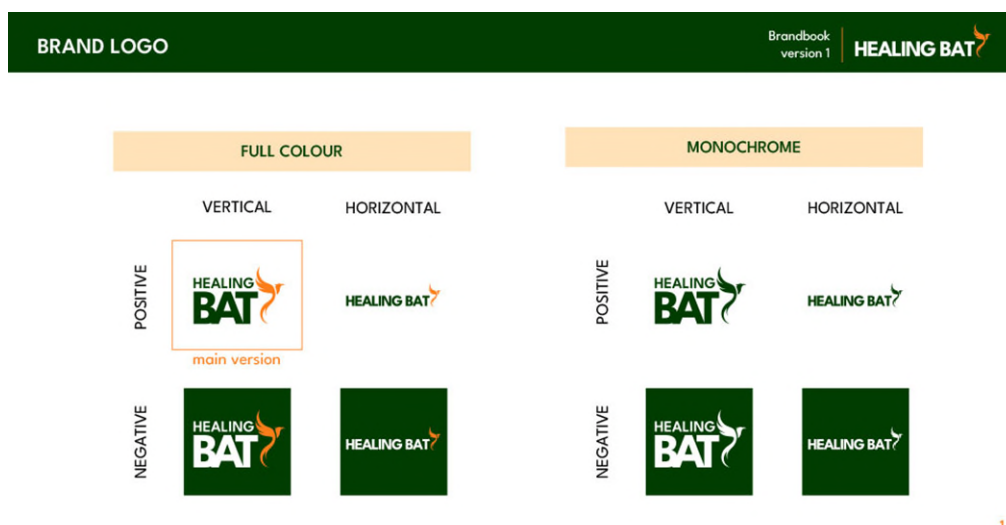
1. Frequent updates and **new content** published on the website.
2. Strategies of **Search Engine Optimisation (SEO)** to maximise its positioning in search engines.
3. Linking to the website from other **project communication channels**, mainly the project's LinkedIn and Twitter posts, email newsletters, and promotional materials.

To analyse these results, data will be used from the **Google Analytics tool**. Other elements and indicators will also be analysed to maximise the website's performance, such as:

- Number of **users** and new users visiting the website.
- **Source** and **location** of visits.
- **User's journey** and best performing **webpages** and **web posts**.

ANNEXES

ANNEX 1. HEALING BAT's brandbook



BRAND TYPOGRAPHY

Brandbook
version 1



HEADLINES LEVEL 1	League Spartan SemiBold	The quick brown fox jumps over the lazy dog.
HEADLINES LEVEL 2	League Spartan Medium	The quick brown fox jumps over the lazy dog.
RELEVANT TEXT	League Spartan Regular	The quick brown fox jumps over the lazy dog.
BODY TEXT	League Spartan Light	The quick brown fox jumps over the lazy dog.

The use of other fonts from the League Spartan family is also permitted, when considered appropriate. This includes League Spartan **Black**, **ExtraBold**, ExtraLight and Thin.

The font size and colour must be adapted according to the context, using exclusively the brand colours.

Download this typography for free on: <https://fonts.google.com/specimen/League+Spartan>

4

BRAND ICONOGRAPHY

Brandbook
version 1



SHAPES

Use preferably shapes with rounded corners.



IMAGES

Images should be warm-toned and, when possible, match the brand's colour range: green, orange, yellow... They should express the concepts of energy, batteries, sustainability, innovation, Europe... They must always be copyright-free, under the partner's responsibility.

ICONS

Icons should be preferably bold and rounded. They do not need to be displayed with a shape framing them.

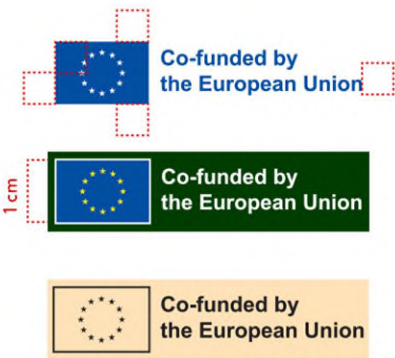
Icons must use the brand colours, down bellow there are examples of good colour combinations. The preferable option is the icon in powerful orange over a white background.



5

ACKNOWLEDGING EU FUNDING

Brandbook
version 1



The EU emblem is the single most important visual brand used to acknowledge the origin and ensure the visibility of EU funding. No other visual identity or logo may be used to highlight EU support.

All communication activities related to the project (including media relations, conferences, seminars and information material such as brochures, leaflets, posters, presentations, etc. in electronic form via traditional or social media), as well as any infrastructure, equipment, vehicles, supplies or major result funded by the grant, must acknowledge EU support and display the European flag (emblem) and funding statement (translated into local languages, where appropriate).

The emblem must be in 'prominent display', at least 1 cm high and the bounded free space around it must be respected. It shall not be modified or merged with any other graphic element.

6



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The following disclaimer must also be included in any public document or material of the project (such as scientific publications, website, brochures, videos, equipment...):

"Co-funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Climate, Infrastructure and Environment Executive Agency (CINEA). Neither the European Union nor the granting authority can be held responsible for them."

This disclaimer must appear next to the EU emblem and funding statement, written in a standard, easy-to-read font, preferably "Arial".



Co-funded by
the European Union

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More information at: https://ec.europa.eu/regional_policy/information-sources/logo-download-center_en



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ACKNOWLEDGING BATTERY 2030+

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The HEALING BAT project is part of Battery2030+, a large-scale European research initiative with the vision of inventing the sustainable batteries of the future. This will provide European industry with disruptive technologies and a competitive edge throughout the entire battery value chain and enable Europe to reach the goals of a climate-neutral society envisaged in the European Green Deal.



As an acknowledgement of this initiative, the Battery2030+ logo should appear in the project's communication materials, including its website, social media accounts, promotional materials, public documents and deliverables, conferences and events, media engagements...

8

COMBINING DIFFERENT LOGOS

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It is not necessary to include all partners' logos in every project document or material. It is only mandatory to include the project's logo, together with the EU emblem and funding statement, as stated previously. Nevertheless, it is recommended that the partners' logos are present in relevant materials (the project's website, brochure, etc.).



PARTNER 1 PARTNER 2
PARTNER 3 PARTNER 4
PARTNER 5 PARTNER 6



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the European Union

In case you need to include the logos of all partners that take part in the project, they must be smaller in size than the project's logo, following this example.

The EU emblem must be displayed at at least the same size as the biggest logo.



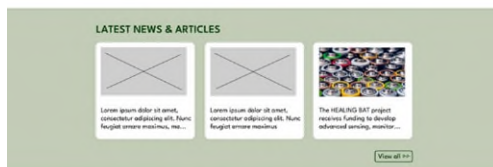
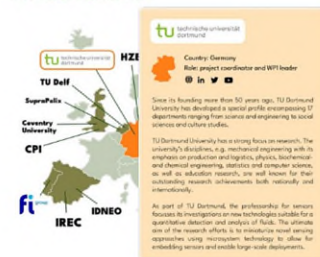
If the project's logo is to be displayed together with the logo of another organisation or project, they must be both in the same size.

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ANNEX 2. Sketch design for the website



THE PROJECT'S CONSORTIUM



UPCOMING EVENTS

NEVER MISS A THING ABOUT HEALING BAT
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First name Last name

☐ I have read and accept the website's Terms of Use and Privacy Policy. By submitting this form, I hereby declare accepting that my personal data will be collected and processed for marketing communications about the HEALING BAT project.

CONTACT OUR TEAM

Name and surname Organization

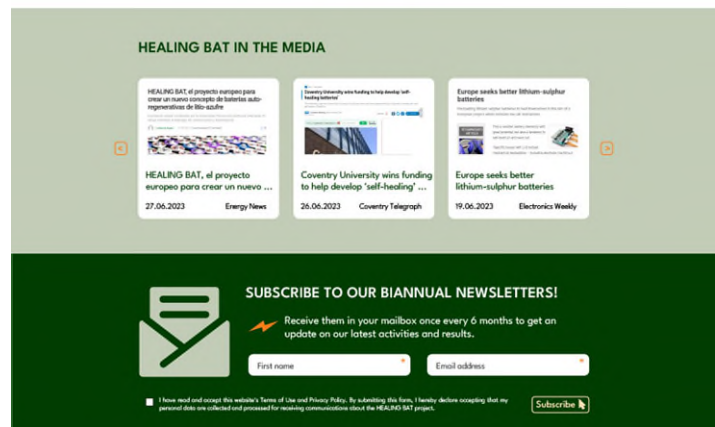
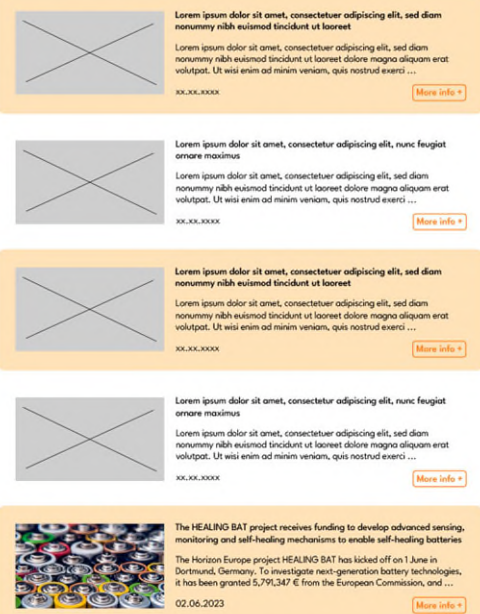
Email address Email subject

Message

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ALL NEWS & ARTICLES



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The HEALING BAT project receives funding to develop advanced sensing, monitoring and self-healing mechanisms to enable self-healing batteries



01 June 2023 Share this post on: in

The Horizon Europe project HEALING BAT has kicked off on 1st June in Dortmund, Germany. To investigate next-generation battery technologies, it has been granted €5,791,347 from the European Commission, and the respective UK and Swiss funding agencies. In particular, the project aims to develop a new class of self-healing batteries based on lithium-sulphur (Li-S), by embedding new sensor-actuator concepts to allow for implementing self-healing concepts and materials in key battery components.

The project consortium is formed by 10 partners from 6 different European countries, coordinated by TU Dortmund (DE). The other partners are technology innovation catalyst, CH (UK), Coventry University (UK), Hochschule Zentrarum Berlin (DE), TU Delft (NL), Paul Scherrer Institute (CH), ENEC (ES), Fundació Institut de Recerca en Energia de Catalunya (ES), IT Group (PT), SupraSolve (NL).

The project celebrated its kick-off meeting on June 1st and 2nd, hosted by the coordinator in its offices at the Technical University of Dortmund in Germany. During the event, all partners met each other, shared their technical backgrounds and presented their expected contributions to the project. To promote team building and kick-start a creative, international collaboration, the coordinator organised a visit to Dortmund's abandoned Phoenix West steel mill, which represents the rise and fall of an entire industry. The meetings ended with a coordination session, followed by a planning of the upcoming activities and deliverables.

“Today, the former Phoenix West area is not only a monument of industrial history but has become a symbol for leading innovative enterprises on a corner stone in managing structural change. In this spirit, HEALING BAT will play its part in transforming Europe's battery industry towards a more sustainable, more competitive future role.”

Stefan Palzer, project coordinator at TU Dortmund

The EU, aspiring to lead the sustainable batteries industry

The European Union seeks to reemerge as a world leader in the field of batteries by spending up the development of underlying critical technologies, enabling a European battery cell manufacturing industry to make use of sustainable energy, as well as implementing circular economy principles.

Right now, Lithium-Ion (Li-Ion) chemistries dominate the market for rechargeable batteries, but the current generation is nearing the end of its improvement limits. Li-ion battery performance and manufacturing are unlikely to keep up improvements at a rate that is sufficient to establish a climate-neutral society without substantial breakthroughs.

Consequently, the EU is supporting innovative ideas to allow for the development of future sustainable batteries, that will demand fewer resources and create the groundwork for EU competitiveness.



HEALING BAT, to develop a new class of self-healing batteries based on novel material systems

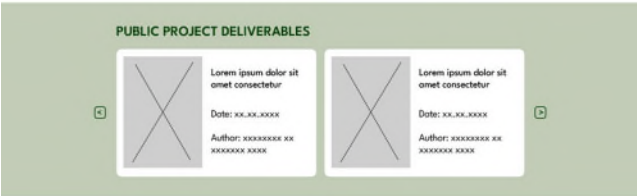
In this context, HEALING BAT aims at developing and implementing self-healing concepts and materials in key battery components, used in conventional lithium-sulphur (Li-S) batteries, and extrapolate the designs and concepts to develop a new class of self-healing structural batteries based on Li-S.

A toolbox to ensure quality, reliability and lifetime

Furthermore, the project will create a toolbox consisting of self-healing materials, relevant sensors and bespoke battery management systems, with the aim of maximising the performance of the developed Li-S battery in terms of quality, reliability and lifetime, as well as avoiding or timely healing occurring damages. The ultimate purpose of this toolbox is to control the flow of energy to and from the battery system, monitor any errors and apply corrective actions when necessary.



BRANDING & PROMOTIONAL MATERIALS



NEWSLETTERS AND PRESS RELEASES

