



# D 7.5 – Project website

version 3.0

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DECHEMA e.V.

Date: 31/03/2023



**Funded by  
the European Union**

# D 7.5 – Project website

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## Technical References

<b>Project Acronym</b>	METALLICO
<b>Project Title</b>	Demonstration of battery metals recovery from primary and secondary resources through a sustainable processing methodology
<b>Project Coordinator</b>	IDENER
<b>Project Duration</b>	January 2023- December 2026 (48 months)

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<sup>1</sup> PU = Public      PP = Restricted to other programme participants (including the Commission Services)      RE = Restricted to a group specified by the consortium (including the Commission Services)      CO = Confidential, only for members of the consortium (including the Commission Services)

## Document history

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## Disclaimer

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### 1. Introduction

The METALLICO website is the door to the METALLICO world online. The website acts as a central hub for all outreach activities, providing up-to-date information 24/7 about METALLICO. The web presence of METALLICO is an important tool of communication and dissemination and offers access to up-to-date information about the research conducted and results obtained within METALLICO to interested stakeholders, thus boosting the project impact. Moreover, the website facilitates conducting a dialogue and establishing a positive relationship to interested parties and stakeholders.

This deliverable presents the first version of the METALLICO website. The website is designed and operated by DECHEMA within Task 7.2, the Communication Toolbox. The METALLICO consortium provides input for the content of the website.

In the following sections an overview of the objectives, web structure and first snapshots of the web presence are given.

The METALLICO website has been launched on the 31.03.2023 and is available under the following address: [metallico-project.eu](http://metallico-project.eu).

#### 1.1. Objectives

The METALLICO website promotes digital communication and dissemination and serves as a platform for interested visitors. The website will:

- Show insights on the main objectives of the project, work packages structure, and the involved partners
- Update about the project progress and findings via the latest news
- Share scientific reports, open access publications, conference papers, public deliverables, and communication material (e.g., leaflets, posters, factsheets, videos)
- Give an overview of upcoming METALLICO events, events where METALLICO is presented or interested in and thematically related events
- Invite additional interested stakeholders to get in direct contact with the project and to accompany us the entire project
- Engage with the stakeholder community
- Connect to METALLICO newsletters, social media channels and the partners' websites

A broad audience is targeted with the website, which can be reached with minor effort. The visitor experience ranges from a clustered first glance of the project to in-depth information. In this way, all visitors' time budgets are considered, and the time of visitors is not wasted. Easy language, visual elements and simple navigation supports diverse users with different backgrounds and abilities. Regular updates and news about the project encourage frequent visits to the site. The website link will be included in all communication materials.

The website appears in the METALLICO visual identity to impress with its recognition value through the METALLICO colours, logo and corporate language. More details on visual identity are presented in the upcoming Deliverable 7.1.



## 1.2. Guiding principles

To communicate the METALLICO project to interested visitors, multiple principles are regarded to secure attractive web design. The following principals were underlying developing the METALLICO website:

- **User-friendliness and user experience:** The website should be simple to use for everyone. Easy and intuitive orientation should be given by facilitating scanning of the website. More information is revealed by progressive disclosure.
- **Relevant and useful:** Content should be presented focused, consistent and clear.
- **Accessibility:** Everyone should be able to use and interact with the website regardless of the device or software they are using.
- **Ease of contact:** Contact details or other interactive elements (such as the links to social media channels) are easily findable.

## 2. Work carried out

For the developing of the website, DECHEMA developed a questionnaire to receive content from the METALLICO consortium. According to the slogan: *The more we know about your work in the METALLICO project, the better we can communicate and disseminate the project goals and activities* the relevant content was developed. The questionnaire asked for information about each partners organization, the role of each partner in the project and the objectives of the project. The given content was compiled, wrapped up and transformed to website texts.

## 3. METALLICO Website Structure

The METALLICO website is designed in such a way that the structure is easy to understand and individual paths are easy to follow. Thus, the individual contents can be found easily without users getting lost on the page. The website also uses a simple language so that all target groups can understand the content easily. There are exceptions in sections that target the scientific community, for example.

The website starts with a narrow structure but will be continuously expanded and filled during the course of the project. Currently, the website consists of the following menu sections and sub-sections:

### Home

About the Project

News and Events (excerpt from the “News” and “Events” section with the latest entries)

Contact section (possibility to send a message to the communication team)

### Project

*Subpages:*

- Objectives



- 5 Technologies (as soon as possible)
- Case Studies (as soon as possible)
- Work Packages (as soon as possible)

### Partners

List of Partners with short description of partner institution and tasks in the project, logo and link to the partners' websites

### News

### Events

### Media

*Subpages:*

- Press (Articles and Press Releases about METALLICO)
- Information materials, e.g. project flyer (as soon as possible)

Results (as soon as possible)

Subscribe (Newsletter, as soon as possible)

**On every section on the bottom:**

- Contact (information on coordinator and communications leader)
- EU-Disclaimer
- Social Media
- Legal Notice
- Privacy



### 3.1. Home

The screenshot shows the METALLICO project website. At the top, there is a navigation menu with links for Home, Project, Partners, News, Events, and Media. The main header features a large image of raw materials with the text "About the Project" and a brief description: "The need for raw materials for batteries has increased in recent years, but volatile markets and challenges in supply chains pose a risk to the procurement of (critical) battery metals. METALLICO contributes to create resilient supply chains within the EU." A "Learn more" button is provided.

Below the header is a section titled "Objectives" with a 3D graphic of battery components. The objectives listed are:

- Recover valuable materials from primary and secondary resources
- Demonstrate sustainable production and recovery of (critical) battery metals
- Assess end-use of the recovered (critical) battery metals
- Identify and characterize (critical) battery metals with innovative technologies
- Enable social participation, stakeholder engagement and networking

The "News" section features a "Kick-off Meeting in Seville, Spain" with a photo of the event and a "Read more" button.

The "Events" section lists three upcoming events:

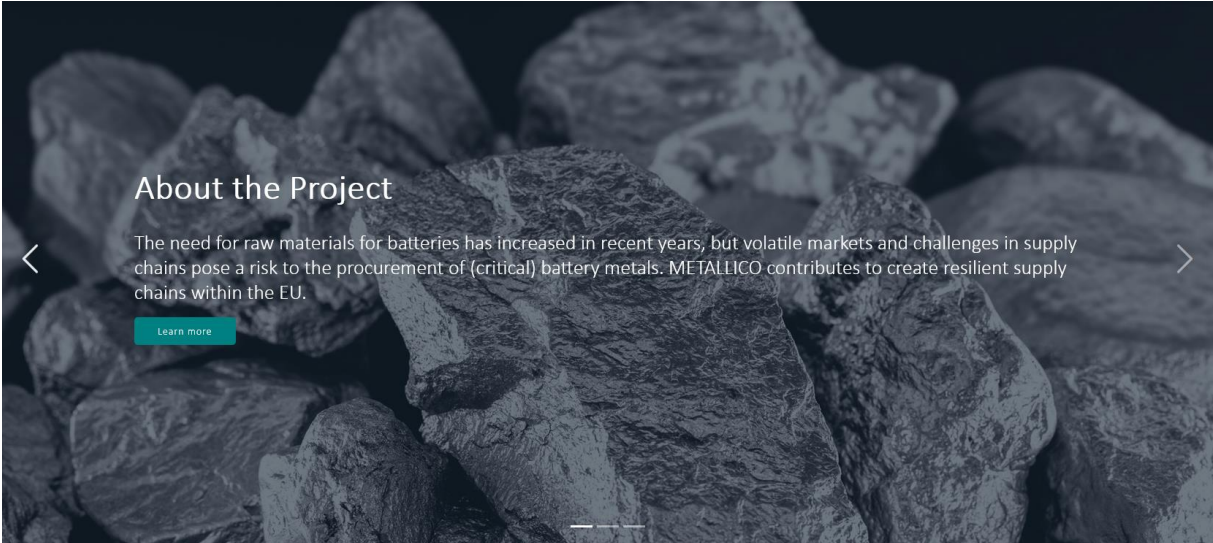
- RAW MATERIALS SUMMIT**: 16-17 Nov 2023, The Egg, Brussels, Belgium. "SAVE THE DATE! 16-17 Nov 2023, THE EGG, BRUSSELS, BELGIUM"
- CHINA 2023 10th International Conference on Sustainable Solid Waste Management**: 21-24 Jun 2023, Chang, China.
- IMWA 2023 CASNEWYDD - NEWPORT**: 17-21 July 2023, CC Water in Newport, United Kingdom. "International Mine Water Association (IMWA) Conference"

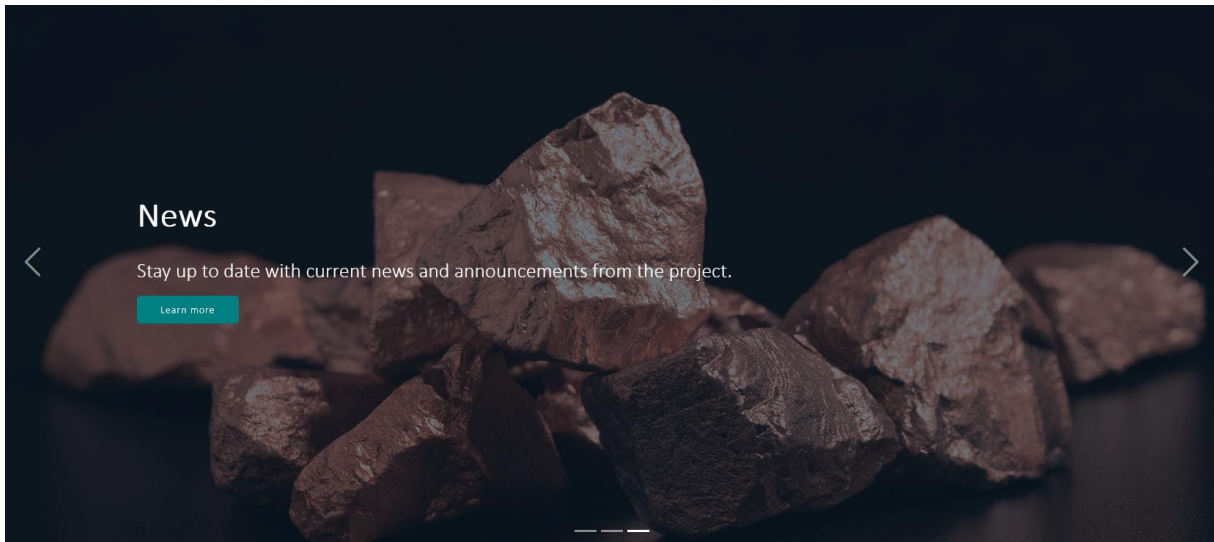
A "Contact Us" form is located below the events, with fields for Name, Email, Subject, and Message, and a "Send Message" button.

At the bottom, there is a footer with contact information for the METALLICO Coordinator (General, Media, and Technical) and the Communication team, along with the European Union logo and the text "Funded by the European Union".



At the very top of the homepage, there are three sliders with meaningful images that serve as eye-catchers for visitors to the website. The sliders change every 5 seconds, but can also be clicked on. The slider contains teaser texts that link to "Objectives" (Home), to the partner page and to the news.










Below the slider, the project's objectives are briefly presented. There is a short introduction followed by the most important objectives of the project in bullet points. This allows the visitors of the page to immediately see what the project is about and why it is relevant. For better illustration, the goals are accompanied by fitting icons. An image to the left of the bullet points supports the impact of the bullet points.



## Objectives

To boost the green transition, the availability of critical raw materials needs to be ensured. The battery sector has been experiencing increasing demand for raw materials for years and is vulnerable for supply risks. Various strategies are being pursued to meet the growing demand for critical raw materials and to build up viable, sustainable and innovative value chains. Waste valorization by recovery and recycling plays a central role.

METALLICO will:

-  Recover valuable materials from **primary and secondary resources**
-  Demonstrate **sustainable** production and recovery of (critical) battery metals
-  **Assess end-use** of the recovered (critical) battery metals
-  Identify and characterize (critical) battery metals with **innovative technologies**
-  Enable **social participation**, stakeholder engagement and networking

This is followed by an overview of the latest news and events, so that visitors can quickly see what is new in the project. The three most recent entries from the "News" and "Events" subpages are displayed. For each news item, there is a short teaser text and a fitting image as an eye-catcher. The "Read more" button takes users to the respective news in the "News" menu item. A similar approach is used for the events. These are displayed as a tile as they can be seen in the menu item "Events". Clicking on an event links directly to the external page of the event.



## News



### Kick-off Meeting in Seville, Spain

The METALLICO project officially launched from January 11-12, 2023, in Seville, Spain. It was hosted by the coordinator IDENER.

[Read more](#)

## Events



### 5th RawMaterials Summit 2023

15-17 May 2023, The Egg, Brussels, Belgium



### CHANIA 2023 10th International Conference on Sustainable Solid Waste Management

21 - 24 June, 2023, Chania, Greece



### International Mine Water Association (IMWA) Conference

17 - 21 July 2023, ICC Wales in Newport, United Kingdom

The last item on the page is a contact form, where users can send a message directly to the project. Name, email address, subject and the message have to be entered. The message will be sent to the METALLICO communication team. This contact field is an offer to the users, which simplifies the contacting. Thus, the correct e-mail address does not have to be searched for and transferred to the user's own e-mail box.

## Contact Us

Your Name

Your Email

Subject

Message

[Send Message](#)

On the Home page, as on every other page of the website, the contact details of the coordinator's team and of the communications team appear at the end. Links to social media accounts (LinkedIn and Twitter) also appear there in the form of icons, as soon as we have social media. The icons will also be permanently displayed on the right-hand side of the page, so that users can click on them at any time and be taken directly to the relevant channel. As soon as it is possible, there will also be an option at

the bottom of the page to sign up for the project newsletter. Furthermore, the EU disclaimer will be visible there and legal notice and privacy settings can be displayed.

**Contact**

**METALLICO Coordinator**

**General Coordinator**  
 Maria Gonzalez-Moya Jimenez, IDENER  
 maria.gonzalez[at]idener.es

**Technical Coordinator**  
 Ana Lara Quijano, IDENER  
 ana.lara[at]idener.es

**Communication**

Jana Gäbler and Ramona Simon, DECHEMA e.V.  
 metallo[at]dechema.de

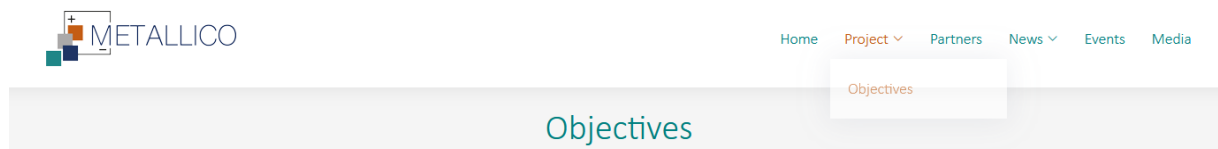


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Legal Notice | Privacy

### 3.2. Project

In the section "Project", the sub-section "Objectives", and later also "5 Technologies", "case studies" and "Work Packages" are presented. For the launch of the website, the Objectives are shown first. Gradually, the remaining sub-sections will be filled.



The screenshot shows the METALLICO logo on the left and a navigation menu on the right with items: Home, Project (dropdown), Partners, News (dropdown), Events, and Media. The 'Project' dropdown menu is open, showing 'Objectives' as the selected item.

The "Objectives" subpage takes up the first four points from the start page under "Objectives" again and explains them in greater depth. This allows website visitors to learn even more about the project and its goals. The language is chosen in such a way that a broad target group understands the project's objectives. Technical terms and overly specific content are avoided. A short introductory text places the content in an overall picture. The individual points appear in such a way that they can be unfolded for further information. An image is used to liven things up here as well.

## Objectives

The primary objective of METALLICO is to foster sustainable recovery strategies for (critical) battery metals and their reuse. To reach this overall goal, the main innovation and research objectives are:




Recover valuable materials from primary and secondary resources	▼
Produce and recover (critical) battery metals sustainably	▼
Assess end-use of the recovered (critical) battery metals	▼
Identify and characterize (critical) battery metals with digital tools	▼



### 3.3. Partners

Under "Partners", users can find out which companies and institutions are involved in the project. An alphabetical list of partners is displayed. For each partner there is a box where the respective logo and partner web pages are shown on the left. On the right hand side of the box, the first sentences of the partner presentation are displayed, fading towards the bottom. Thus, each box initially appears the same size, regardless of how long the respective texts are. By clicking the "Read more" button, the box is expanded and the fading sentences are displayed. The institution or company of the partner is always presented first and then the respective role in the project.

## Partners



**idener**  
SCIENTIFIC COMPUTING

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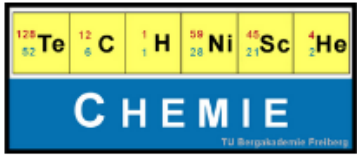
idener Research and Development AIE  
<http://www.idener.es/>

**About the organisation**

IDENER is a private research company composed of a team with a sound scientific background in disciplines comprising the branch of systems engineering. Thus, the Spanish company has positioned as a valued partner of top European Research centers, Universities and technology firms.

IDENER investigates in the multidisciplinary field of Computational Science and its application to the optimization of systems and processes in key areas: Industrial Technologies, ICTs; Biotechnology; Secure, Clean and Efficient Energy; and Resource and Raw Materials Efficiency. This approach results in a high added value which sharpens the competitive edge of complex systems by

[show more](#)



**CHEMIE**  
TU Bergakademie Freiberg


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Technische Universität Bergakademie Freiberg  
<https://www.tu-bergtaf.org/en/home>

**About the organisation**

The Institute of Technical Chemistry at TU Bergakademie Freiberg (TUF) works at the junction of laboratory scale and industrial process engineering. The main areas of work are resources chemistry and chemical process development. The aim is to develop and optimize new processes for the sustainable provision of energy and chemical raw materials based on primary and secondary raw materials. Examples are phosphate, lithium, electronic metals (indium, germanium, gallium, rare earths) or methanol. The institute has extensive expertise in scaling up processes for the recovery of metals from complex polymetallic mixtures as well as the development of Zero-Waste concepts (value added chemical approach).

[show more](#)



**UNIVERSITAT POLITÈCNICA DE CATALUNYA BARCELONATECH**


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Universitat Politècnica de Catalunya  
[https://www.upc.edu/en?set\\_language=en](https://www.upc.edu/en?set_language=en)

**About the organisation**

The Polytechnic University of Catalonia (UPC) is a public research and higher education institution in the fields of engineering, architecture, science and technology, and is one of the leading polytechnic universities in Europe. It has 18 educational centres specialized in different areas of knowledge including the field of industrial engineering, especially in technologies: chemistry, materials, mechanics, electrical, electronic, biomedical and energy. Research developed at the UPC comprises sustainable urban and industrial waste management cycles based on resource recovery approaches promoting circular solutions of waste to product and waste to energy.

[show more](#)



**Łukasiewicz**  
Instytut Metali Nieżelaznych


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Siec Badawcza Łukasiewicz- Instytut Metali Nieżelaznych  
<http://www.imn.gliwice.pl/index/en>

**About the organisation**

Łukasiewicz Research Network – Institute of Non Ferrous Metals (Łukasiewicz IMN) is a research centre of the Polish non ferrous industry. Complex activities cover all stages of metallic materials production: from ore treatment to technologies for production of modern product meeting all environmental standards. Many solutions are used in small and medium-sized enterprises not only in the non-ferrous metals industry, but also in other sectors of the economy. Łukasiewicz IMN offer includes: research and development works to develop new technologies, optimization of industrial processes, modernization of production lines, construction of devices, measurement and analytical services.

[show more](#)



**Idener Research and Development AIE**  
<https://www.idener.es/>

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IDENER investigates in the multidisciplinary field of Computational Science and its application to the optimization of systems and processes in key areas: Industrial Technologies; ICTs; Biotechnology; Secure, Clean and Efficient Energy; and Resource and Raw Materials Efficiency. This approach results in a high added value which sharpens the competitive edge of complex systems by providing improvements in performance and cost effectiveness.

**Role in the project**

In METALLICO, IDENER is responsible for the overall coordination of the consortium to guarantee a successful project development as well as the modelling, engineering and digitalization activities. The company is also developing the engineering design of three of the five pilots which will be built during the project. Last but not least, IDENER works on the formulation and optimisation of the mathematical models of the process and their subsequent digitalisation.

[show less](#)

### 3.4. News

In the section "News", all news from the project are presented and edited in a way that they are relevant and easy to process for the visitors of the website. Possible news can be project meetings, results and publications of the partners or achieved milestones. Each news item is accompanied by a headline, a teaser and a suitable image to liven things up and catch the eye. The latest news is always first on the page, the oldest at the bottom. No news will be deleted, so that the visitors of the website can find old announcements again.

## News



**Kick-off Meeting in Seville, Spain**

The METALLICO project officially launched from January 11-12, 2023, in Seville, Spain. It was hosted by the coordinator IDENER.

[Read more](#)

When a user clicks on a news item, he is redirected to a subpage. There the user can find the complete text of the news. These texts can be of different length. A further link to an external page, for example the page of a partner, is also possible. Photos are used to lighten up this sub-page and to underline the news.



### Kick-off Meeting



January 11-12, 2023

From January 11-12, 2023, the project partners of METALLICO met in Seville, Spain, for the first time. The partners presented themselves and got some administrative information from the coordinator IDENER and from the Project Officer. Furthermore, the Work Package Leaders presented all WPs and answered the questions from the other partners.

### 3.5. Events

This is where visitors of the website can see relevant events that are hosted by partners, attended by partners (e.g. with presentations, posters or similar participation), or that have a topic relevant to the project. The individual events are displayed in tiles, each showing the most important information (name, date, location/online). The logos of the events are also shown. Clicking on the event name links to the external page of the event. The next event is always at the top left. Past events are shown under a sub-item "Past events".

**ACHEMA 2024**  
World Forum and Leading Show for the Process Industries

10 – 14 June 2024  
Frankfurt am Main, Germany  
www.achema.de

ACHEMA 24

10- 14 June 2024, Frankfurt am Main, Germany



**2024 Spring Meeting of the European Materials Research Society (E-MRS)**

27- 31 May, 2024, Convention Centre in Strasbourg, France

**MMH**  
Mining and Minerals Hall

MMH (Mining and Minerals Hall)

15-17 October 2024, Fibes-Palacio de Exposiciones y Congresos, Sevilla, Spain

V EDITION MMH



Dresden Battery Days 2023

25–27 September, 2023, Fraunhofer IKTS in Dresden, Germany.

4th Dresden Battery Days meeting on "Steps to sustainable and circular battery value chain"



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### 3.6. Media

For the section "Media", there are subpage "Press" and "Information material" planned as soon as possible. In "Press", visitors will find articles and press releases from and about the project. These are folded out under the "Press Releases" and "Articles" blocks respectively. The most recent press release or article is at the top of the list. Clicking on the name of a press release or article will link directly to the texts on external pages.

In "Information Material", various documents and files can be downloaded, for example, as soon as available, a flyer.

### 3.7. Results

In the section "Results", users can, for example, view public deliverables and scientific papers of the partners. The page will be built as soon as such documents are available from the partners.

### 3.8. Subscribe

In "Subscribe", visitors of the site have the possibility to subscribe to the newsletter. When clicking on the menu item, they will be redirected to the newsletter subscription, which is located at the bottom of each page. The menu item ensures that the box at the bottom of the page is not overlooked by visitors. This menu item will be introduced as soon as a newsletter is scheduled.

## 4. Website management and further development

DECHEMA is hosting and managing the METALLICO website. From the basic building blocks laid, the website is continuously expanded and updated with the latest information and input from all partners.

Table 1 Key Performance Indicators for the METALLICO-Website

Tool	Description	KPIs
Project Website	Public Website with information on the project, partners, activities, events, achievements...	Updated monthly, 600 visitors/year

According to the Key Performance Indicators, a monthly update will be conducted to attract 600 visitors per year, see Table 1. Performance of the website will be monitored with analytical tools to achieve an overview. The reach of the website will be assessed and, if necessary, measures are taken to improve the reach.

