



<b>Project title</b>	A new COLloidal cybernetic sysTem tOWaRds 2030		
<b>Project acronym</b>	COgITOR		
<b>Project number</b>	964388		
<b>Call</b>	FET Open – Novel ideas for radically new Technologies	<b>Call ID</b>	2020-FETOPEN-2018-2019-2020-01
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<b>Funding scheme</b>	Research and Innovation Action		
<b>Project start date</b>	01/06/2021	<b>Duration</b>	48 months

## D6.1 - PROJECT LOGO AND WEBSITE

<b>Due date</b>	30/07/2021	<b>Delivery date</b>	30/07/2021
<b>Work package</b>	WP 6. Dissemination, exploitation and communication activities		
<b>Responsible Author(s)</b>	Valentina Cinti, (CIAOTECH)		
<b>Contributor(s)</b>	All		
<b>Version</b>	0.1		

### Dissemination level

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 964388

## Version and amendments history

Version	Date (DD/MM/YYYY)	Created/Amended by	Changes
0.1	28/07/2021	Valentina Cinti (CIAOTECH)	Creation of the document
0.2	30/07/2021	Alessandro Chiolerio (IIT)	Review

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## List of Abbreviations

Acronym	Definition
EC	European Commission
EU	European Union
DoA	Description of Action
URL	Uniform Resource Locator
WPs	Work Packages

## 1 INTRODUCTION

This document provides a description, supported by pictures, of the COgITOR logo and project website's overall structure.

The communication and dissemination of the project results begins with the project visibility. To achieve maximum visibility, the project needs a personality. The project identity is linked with a graphically coherent and consistent representation of the **COgITOR logo** on project dissemination materials and documentation, and it affects the project website as a key tool of the D&C project strategy as well. It's necessary that every event, presentation, newsletter, deliverable, brochure, etc. make use of this image and is consistent with its style. The logo makes the project recognizable as it defines its identity for the whole duration. It's used in every document produced within the project context and in every kind of contact towards the external environment.

As mentioned, the **project website** is the focal point of external dissemination and internal communication within the consortium, it has been conceived as the main tool for dissemination and communication strategy implementation. It will enable effective communication with external stakeholders, the press and the wider EU public. It provides information on the project, the consortium, the project results and updates, the list of the scientific publications, the subscription to the project newsletter and much more. The website was released at M2, as planned in the Description of Action (DoA) and it is available at the URL <https://www.cogitor-project.eu/> .

The project logo and website have been both developed by WP6 leader CIAOTECH, in collaboration with the project coordinator and the partners of the consortium.

### 1.1 THE PROJECT LOGO

The dissemination of the project starts with its visibility. The project identity is linked with a consistent representation of the COgITOR logo on project materials and tools. An attractive graphical representation helps to provide interested parties with the message that the project is disseminating. The logo has the capability to make the project recognizable as it defines its identity for its whole duration. It's used in every document produced within the project context and in every kind of contact to the external environment.

It's instrumental that every event where the project is presented, and also all the D&C documents realised (such as external presentations, newsletters, deliverables, brochure & poster, etc.) makes use of this image and is consistent with its style.

For this reason, 7 different logo templates were elaborated with the main intention to remember the name of the project in one hand and the main project goal on the other hand and they are all reported hereunder (Figure 1).



Figure 1 Project logo templates

The final project logo comprised the templates 5 and 7, matching their colours, font, and image all in one in a brand-new version which is reported below (Figure 2).



Figure 2 Project logo selected

## 2 THE WEBSITE STRUCTURE

As indicated in the introduction, the COgITOR website is available at the URL <https://www.cogitor-project.eu/> and it was released in M2.

An overview of the main sections of the website is given below and shown in Figure 3:

- ✓ HOME
- ✓ THE PROJECT (Objectives, impacts and benefits)
  - Workpackages
- ✓ NEWS & EVENTS
- ✓ CONSORTIUM
- ✓ GALLERY
- ✓ PUBLIC DOCUMENTS (Public deliverables, newsletters, press kit, Dissemination & Communication report)
- ✓ CONTACTS

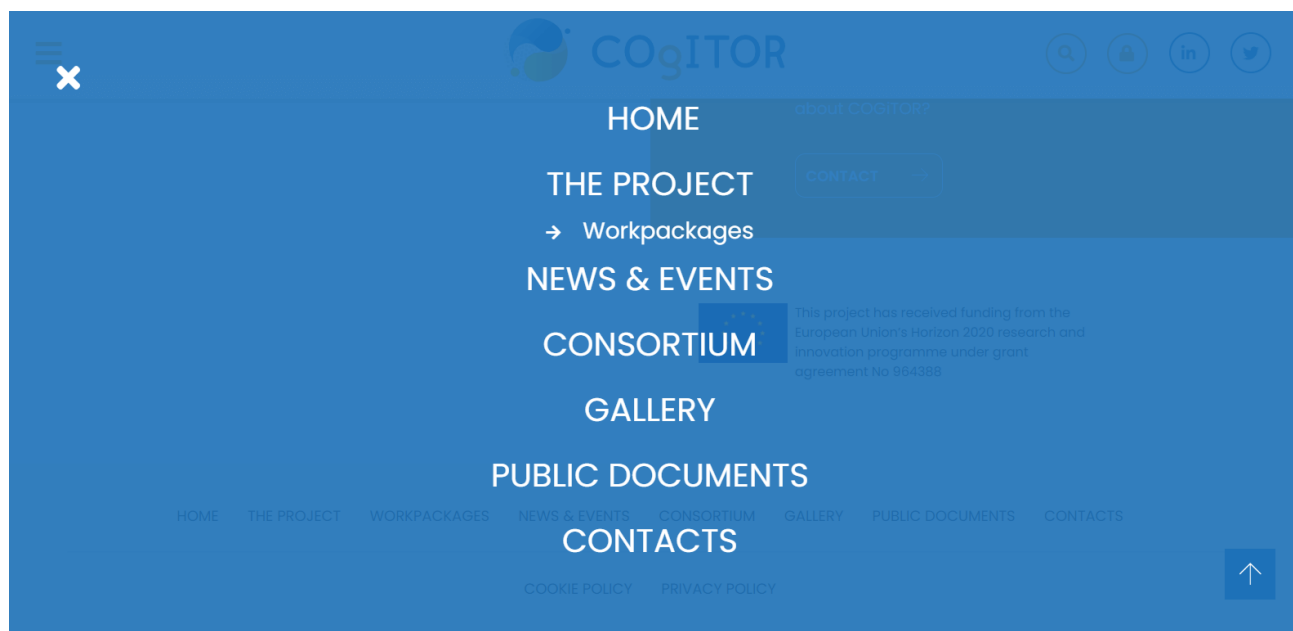


Figure 3 Project website menu

### 2.1 HOMEPAGE

The Home Page clearly communicates the website's purposes and shows all major contents available. It provides a short description of the project and the direct links to the different available pages (The Project – Consortium – News & Press – Events – Newsletters – Contact us) and direct links to the project Social Media channels (Twitter and LinkedIn), in addition to embedded tweets automatically connected with the COgITOR Twitter account).

The figure below shows the Home Page of COgITOR website (Figure 2)

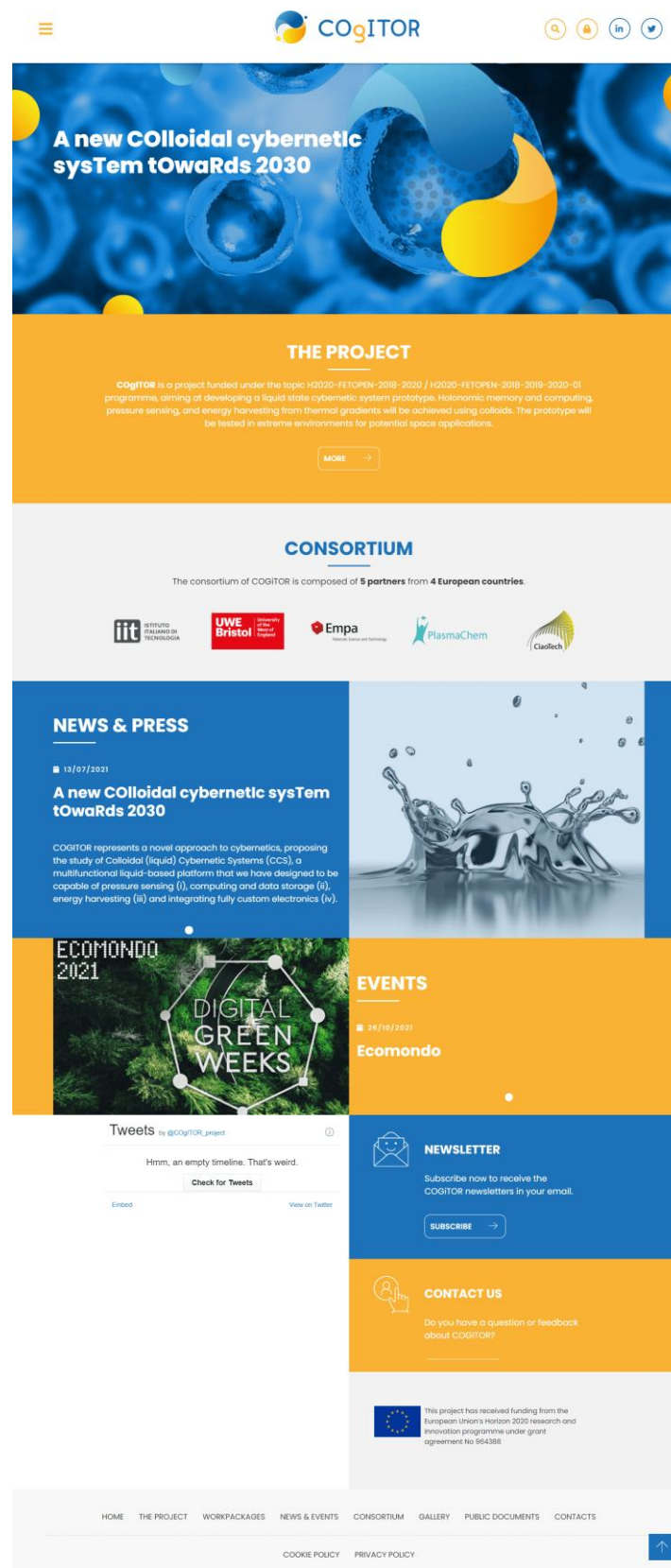


Figure 4 Home page

All **logos from partners** are shown at the center of the Home Page, indicating that the consortium is composed of 5 partners from 4 European countries and from there is possible to have an easy and direct access to the “Consortium” page to further explore their role in the project.

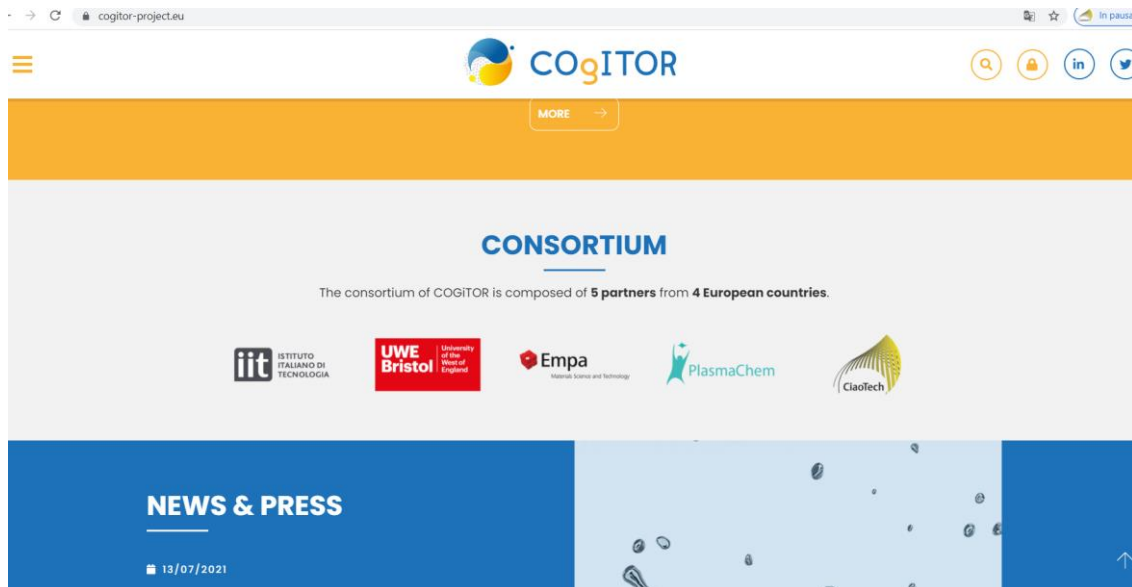


Figure 5 Home page: the partners' logos

Furthermore, at the bottom of the homepage two boxes have been added to call to action the web user. The first one is for **subscription to the newsletter**. The second one is to get in touch with the project consortium with a direct link to the “**CONTACT**” page. These two boxes are visible in all pages of the website.

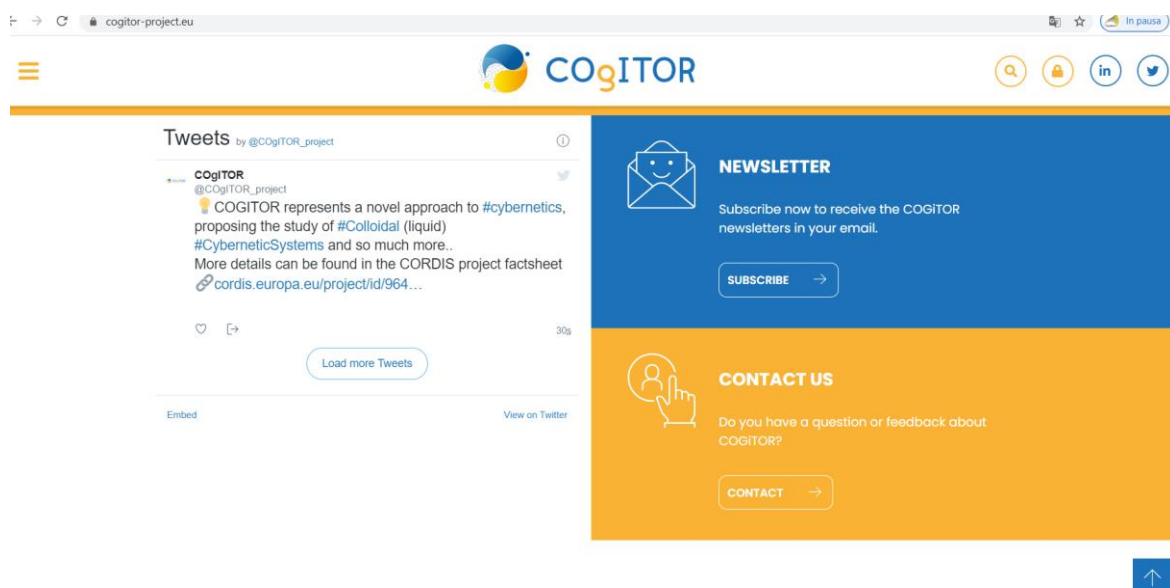


Figure 6 Home page: the call to action boxes



Additionally, a private restricted area for internal use (only for the consortium) is included in the Home page, close to the Social Media project channels. This area aims at document sharing, storage of project deliverables, etc. After the login in the private area the users are redirected to the Innovation Place web-platform at the following link: <https://www.innovationplace.eu/>.



Figure 7 Home page: private area

Finally, according to the EC dissemination rules, in the footer the flag of EU and the text stating the funding of the project as Horizon 2020 project appears, together with the disclaimer excluding the Agency's responsibility (Figure 8).

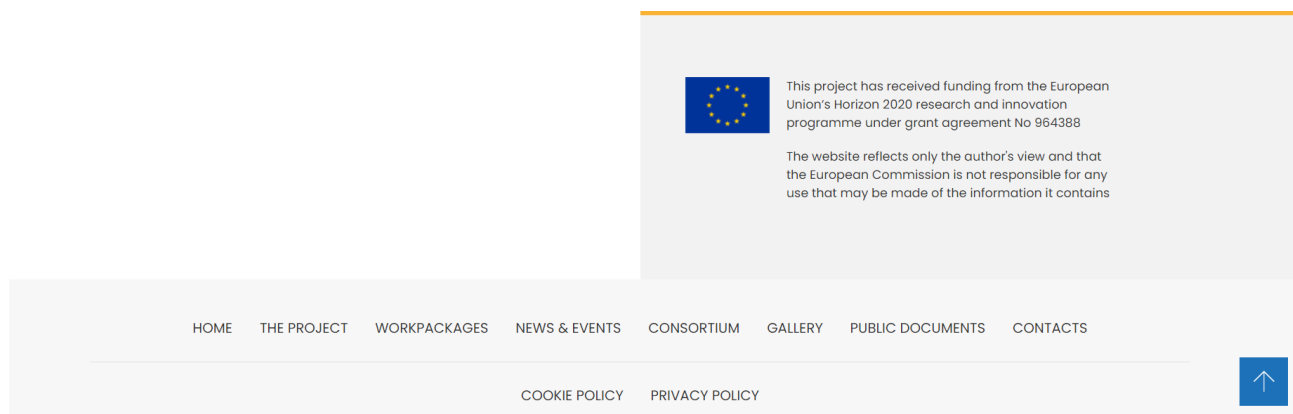


Figure 8 Home page: the EC acknowledgement of funding

## 2.2 THE PROJECT

This page, available at the following link <https://www.cogitor-project.eu/the-project/> includes:

- ✓ a more detailed description of the project;
- ✓ its main objectives;
- ✓ the most strategic impact the project will generate;
- ✓ the main strategic benefits it will bring to society.



The screenshot displays the COgITOR project website. The header features the COgITOR logo, a search icon, and social media links for LinkedIn and Twitter. The main content area is titled "The project" and includes a detailed description of the COgITOR project, which aims to develop a liquid-based platform for studying Colloidal Cybernetic Systems (CCS). A "Workpackages" link is provided. Below this, the "Objectives" section describes the goal of creating a liquid robot that can sense its environment and heal itself. The "Impacts" section discusses the potential of liquid robots in understanding living systems and their applications in space exploration. The "Benefits" section highlights the value of base science research in inspiring new forms of art and understanding. The footer contains a navigation menu with links to Home, The Project, Workpackages, News & Events, Consortium, Gallery, Public Documents, and Contacts. It also includes a "Cookie Policy" and "Privacy Policy" link, and a "Tweets" section showing a tweet from @COgITOR\_project. A "Newsletter" section encourages users to subscribe to receive newsletters. A "Contact Us" section provides a link to the project's contact information. A European Union flag and text indicate that the project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 964388.

**The project**

**COgITOR** represents a novel approach to cybernetics, proposing the study of Colloidal (liquid) Cybernetic Systems (CCS), a multifunctional liquid-based platform that we have designed to be capable of pressure sensing (i), computing and data storage (ii), energy harvesting (iii) and integrating fully custom electronics (iv). A CCS provides operation in extreme environments by definition, having distributed architecture (homogeneous liquid plus random network architecture), being fault-tolerant and featuring self-healing capabilities. Within COgITOR in 48 months the consortium will provide a platform where liquid electronics efforts can converge from all over the world, making European research the point of reference for this big step forward. COgITOR measurable and specific objectives are: i) creating an impedance liquid state pressure sensor with spatial and temporal resolution; ii) producing an holonomic reversible memory written/erased electrically and read by tomographic Microwave Impedance Spectroscopy; the electrical operation will be used to implement learning (both sequential and concurrent) and calculation, where the system acts as a many-input Boolean circuit; iii) harvesting energy from a thermal gradient artificially induced by IR radiation upon the prototype; iv) integration and testing of the final CCS prototype, testing self-healing and fault tolerance capabilities, as well as assessing interference, also under EE conditions varying T, p and B. The engineering applications that we plan to exploit will be part of the intellectual property of a spin-off company. The consortium is well-balanced with cutting edge Research Organizations across EU (IIT – Italy, UWE – UK, EMPA – Suisse) and companies (PC – Germany, PNO – Italy) that will closely collaborate to develop and really transfer knowledge and innovations into products and related services.

**Objectives**

The project will create a liquid robot. It will "feel" the external environment like our skin, being sensible to pressure and temperature. It will be able to heal autonomously when wounded. A basic liquid memory and a rudimentary logic will be implemented. It will produce a small amount of energy to "be alive".

**Impacts**

Studying liquid robots will impact our understanding of living systems, including cells: their intelligence, autonomy, adaptability, self-repair aspects will be explored. The exploration of difficult environments, including outer space, gas giants such as Jupiter, small bodies such as comets and asteroids, will be impacted by our outcomes. We also expect to impact electronics and computer science!

**Benefits**

The benefits of a base science research are for all the people. Inspiring new forms of art, of understanding, of conceiving a robot are among the expected benefits. The consortium will boost the European position in soft robotics and grant supremacy in liquid robotics.

**Tweets** by @COgITOR\_project

Hmm, an empty timeline. That's weird.

[Check for Tweets](#)

[Embed](#) [View on Twitter](#)

**NEWSLETTER**

Subscribe now to receive the COgITOR newsletters in your email.

[SUBSCRIBE](#)

**CONTACT US**

Do you have a question or feedback about COgITOR?

[CONTACT](#)

HOME THE PROJECT WORKPACKAGES NEWS & EVENTS CONSORTIUM GALLERY PUBLIC DOCUMENTS CONTACTS

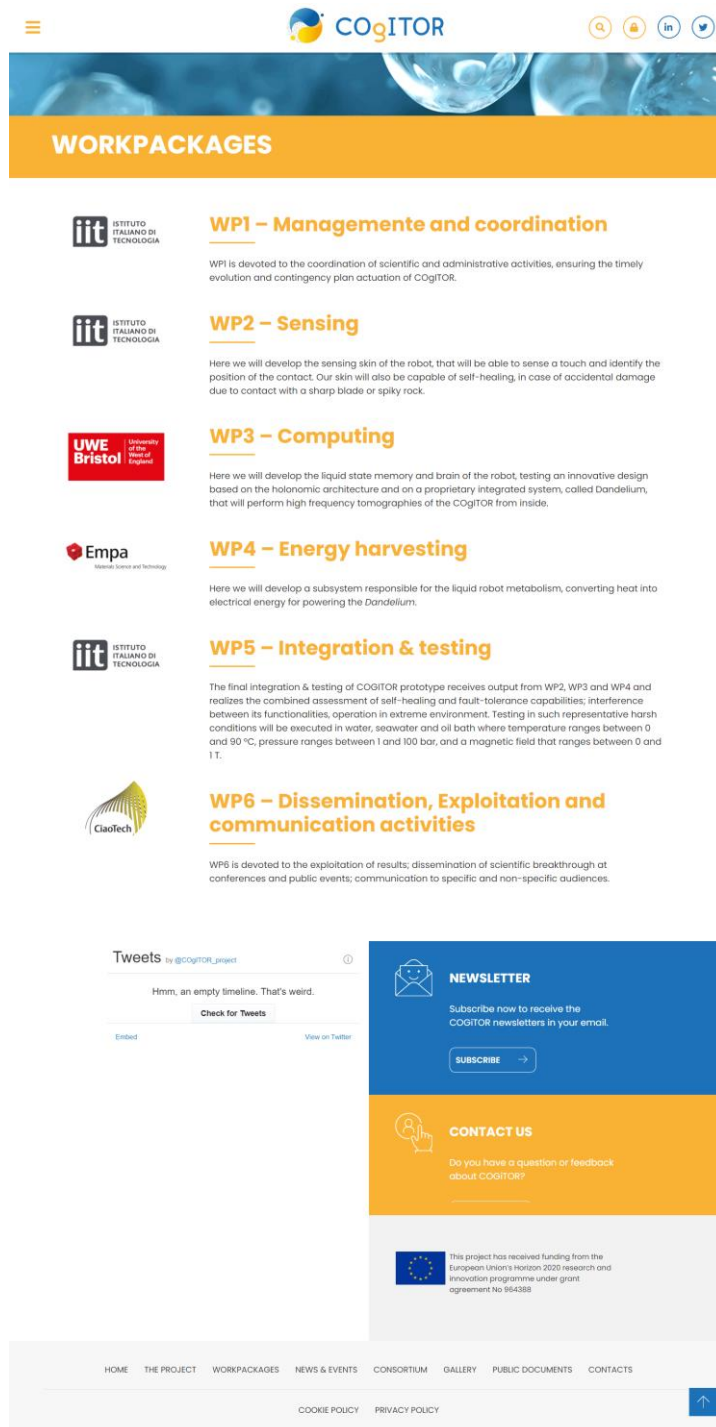
[COOKIE POLICY](#) [PRIVACY POLICY](#)

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 964388

Figure 9 The project page

### 2.2.1 Work packages

The “Work packages” section is comprised under “The project” parent page. It is accessible at the following link <https://www.cogitor-project.eu/the-project/workpackages/> and it describes the 6 work packages of the COgITOR project and a short description of their main objectives as reported in the project activity plan. Furthermore, the lead partner of each WP is shown by means of its logo.



**WORKPACKAGES**

**WP1 – Management and coordination**  
 IIT ISTITUTO ITALIANO DI TECNOLOGIA  
 WP1 is devoted to the coordination of scientific and administrative activities, ensuring the timely evolution and contingency plan actuation of COgITOR.

**WP2 – Sensing**  
 IIT ISTITUTO ITALIANO DI TECNOLOGIA  
 Here we will develop the sensing skin of the robot, that will be able to sense a touch and identify the position of the contact. Our skin will also be capable of self-healing, in case of accidental damage due to contact with a sharp blade or spiky rock.

**WP3 – Computing**  
 UWE Bristol University of the West of England  
 Here we will develop the liquid state memory and brain of the robot, testing an innovative design based on the holonomic architecture and on a proprietary integrated system, called Dandelium, that will perform high frequency tomographies of the COgITOR from inside.

**WP4 – Energy harvesting**  
 Empa Research, Science and Technology  
 Here we will develop a subsystem responsible for the liquid robot metabolism, converting heat into electrical energy for powering the Dandelium.

**WP5 – Integration & testing**  
 IIT ISTITUTO ITALIANO DI TECNOLOGIA  
 The final integration & testing of COgITOR prototype receives output from WP2, WP3 and WP4 and realizes the combined assessment of self-healing and fault-tolerance capabilities; interference between its functionalities, operation in extreme environment. Testing in such representative harsh conditions will be executed in water, seawater and oil bath where temperature ranges between 0 and 90 °C, pressure ranges between 1 and 100 bar, and a magnetic field that ranges between 0 and 1 T.

**WP6 – Dissemination, Exploitation and communication activities**  
 Claoftech  
 WP6 is devoted to the exploitation of results; dissemination of scientific breakthrough at conferences and public events; communication to specific and non-specific audiences.

**Tweets** by @cogitor\_project  
 Hmm, an empty timeline. That's weird.  
 Check for Tweets  
 Embed View on Twitter

**NEWSLETTER**  
 Subscribe now to receive the COgITOR newsletters in your email.  
 SUBSCRIBE →

**CONTACT US**  
 Do you have a question or feedback about COgITOR?

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 654388

HOME THE PROJECT WORKPACKAGES NEWS & EVENTS CONSORTIUM GALLERY PUBLIC DOCUMENTS CONTACTS  
 COOKIE POLICY PRIVACY POLICY

Figure 10 Workpackages page

## 2.3 NEWS AND EVENTS

This section contains an archive of news and most relevant updates related to COgITOR. It will provide also information on the participation in international and national events joined and/or organised in the framework of the project and in line with the project scope. It is accessible at the link <https://www.cogitor-project.eu/news-events/> (Figure 10, 11). A preview of the more recent news and events is shown also shown in the Home Page.

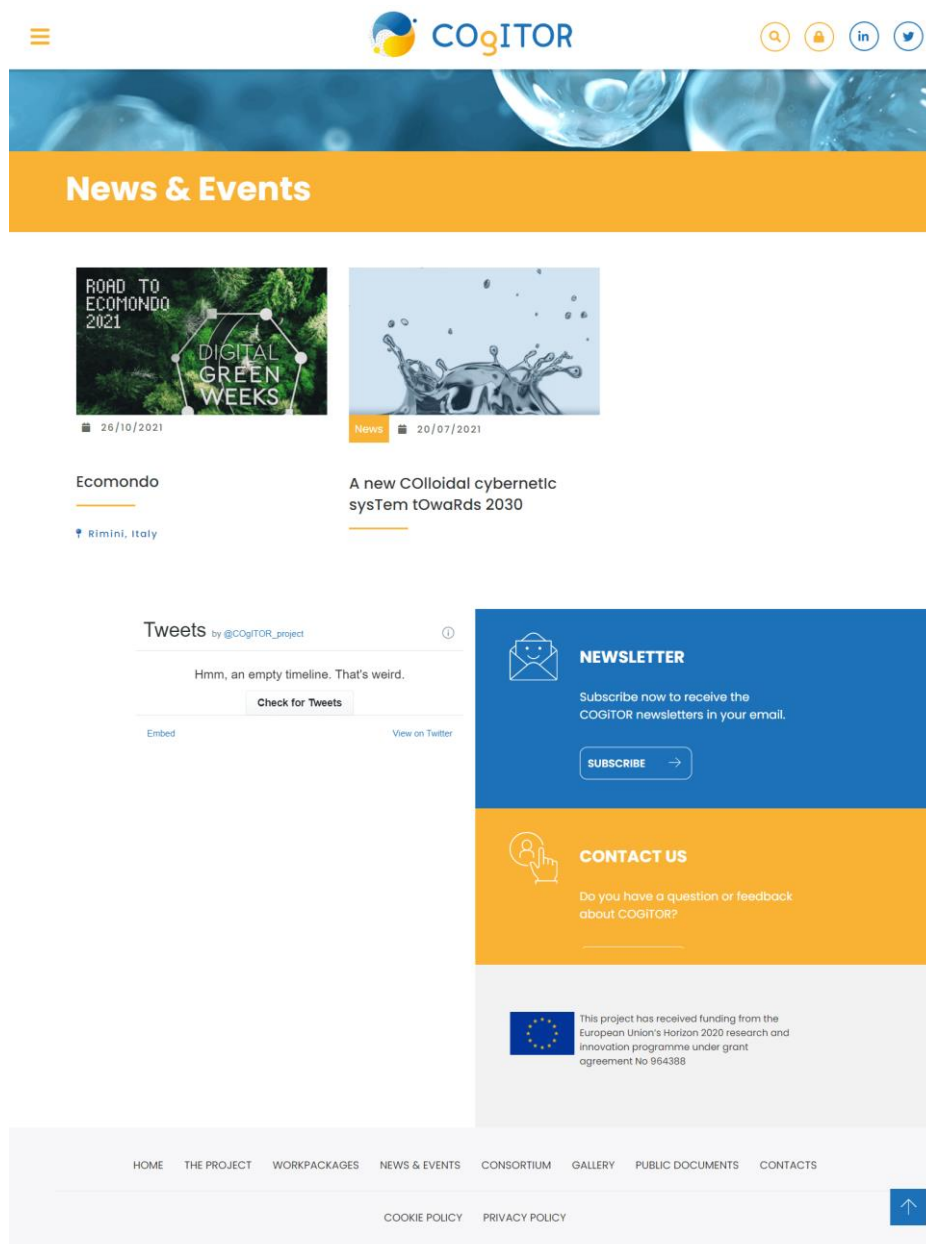


Figure 11 News and events page

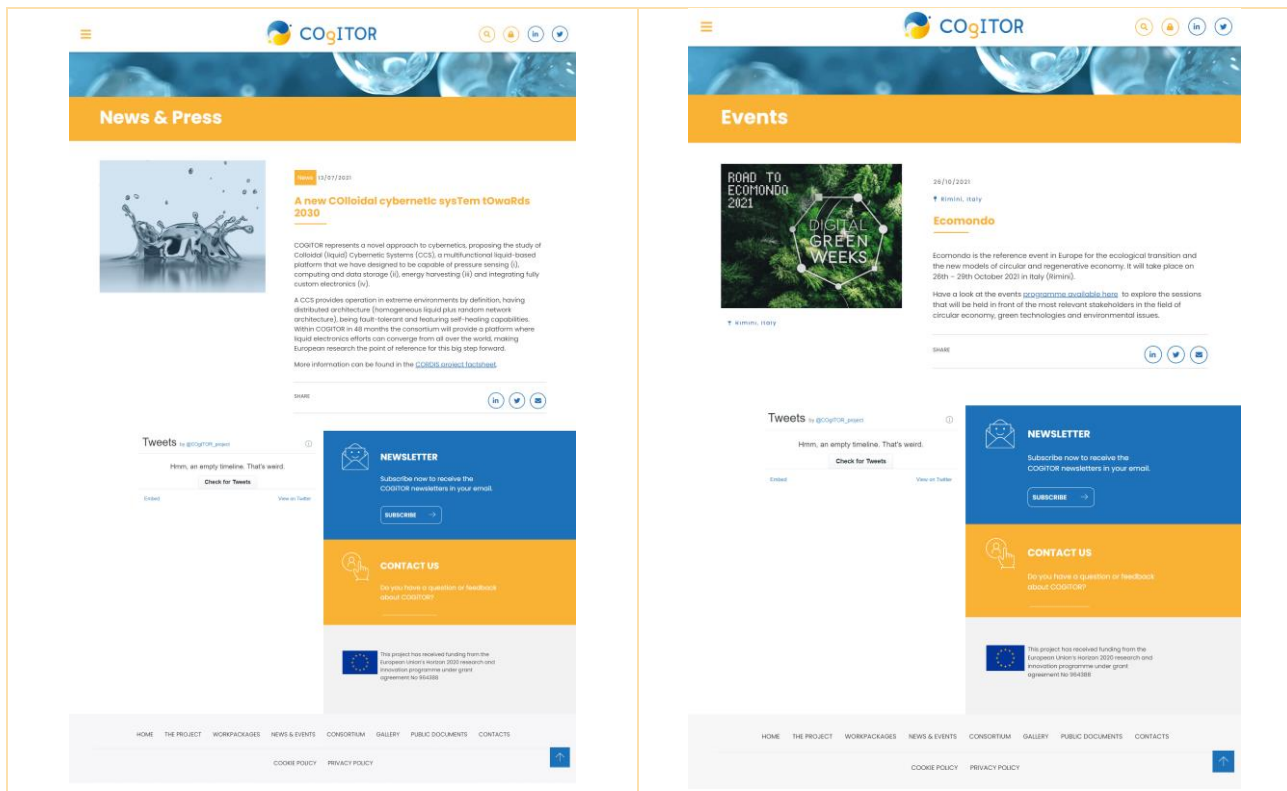


Figure 12 Detailed news and events pages

## 2.4 CONSORTIUM

The section “Consortium” hosts information about each partner in the COgITOR project. For each partner organization, a brief description is provided, including the logo, the full name, the country and a link to the official website of the organization (Figure 12).



## Consortium

The consortium of COGITOR is composed of **5 partners** from **4 European countries**.



COORDINATOR

### FONDAZIONE ISTITUTO ITALIANO DI TECNOLOGIA

Fondazione Istituto Italiano di Tecnologia (IIT – Italian Institute of Technology,) is a scientific research center established by law in 2003 by Italian Ministry of Education, University and Research and Ministry of Economy and Finance, in order to promote excellence in both basic and applied research and to facilitate the economic development at national level. IIT scientific activities started in 2006, they are multidisciplinary and with a very strong approach to technology transfer.

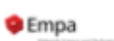
<http://www.iit.it/> 🇮🇹 Italy



### UNIVERSITY OF THE WEST OF ENGLAND, BRISTOL

Group of Unconventional Computing (UCG) at UWE BRISTOL. UCG is a large academic unit which brings together the disciplines of Information Systems, Computing, Electrical and Electronic Engineering, Mechanical and Manufacturing Engineering and Mathematics. UCG is amongst the most innovative and ground-breaking research centres in UWE BRISTOL, Bristol.

<https://uncamp.uwe.ac.uk> 🇬🇧 United Kingdom



### EIDGENÖSSISCHE MATERIALPRÜFUNGS- UND FORSCHUNGSANSTALT (EMPA)

Empa is the Swiss Federal Laboratories for Materials Science and Technology, a part of the Swiss Federation's ETH Council with ties to ETH in Zürich, EPFL in Lausanne, and the Paul Scherrer Institute (PSI) in Villigen. Empa is headed in Dübendorf and has two stations in Thun and St. Gallen, with an overall 1,000 staff and students.

<https://www.empa.ch/> 🇨🇭 Switzerland



### PLASMACHEM PRODUKTIONS- UND HANDEL GMBH

PLASMACHEM GmbH is a German SME dedicated to the development, production and sales of nanomaterials like nano metals, nano oxides, quantum dots, nano diamonds and other carbon based materials etc.

<https://www.plasmachem.com> 🇩🇪 Germany



### CIAOTECH Srl

CTECH is the Italian branch of PNO Innovation B.V., the Europe's largest independent public funding and innovation consultancy firm with 30 years of hands-on expertise and more than 500 funding programmes in most EU countries, annually raising approximately 1 Billion Euro for its clients. Created in 1985, PNO Group is a high-growth knowledge-intensive company, supporting over 2,000 clients throughout Europe, annually developing over 250 European consortia.

<https://www.pnoconsultants.com/it/> 🇮🇹 Italy

Figure 13 Consortium page



## 2.5 GALLERY

This section will contain project videos, images and pictures shot/taken while the partners will implement their activities. The following image shows how these type of information will be displayed since at the moment no resources are uploaded there.

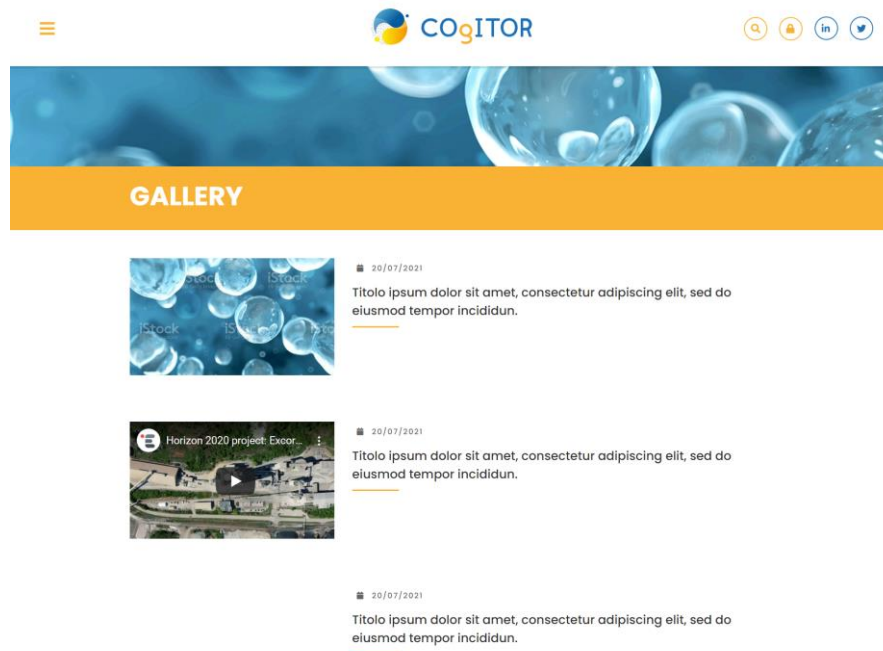


Figure 14 Preview of the Gallery page

## 2.6 PUBLIC DOCUMENTS

The “Public documents” page, whose preview is shown in figure 14, will comprise three sections:

1. Public deliverables,
2. Project Newsletters
3. Press kit (COgITOR brochures, posters, roll-up)
4. Dissemination and communication report: this tool aims at supporting the Dissemination and Communication (D&C) teams and their activities within the project. It facilitates the collection of data related to D&C activities from each project partner, enabling better tracking and reporting of such activities to the EC. The D&C section is private and only accessible to project partners. CIAOTECH, the WP6 leader, will provide access to the person in each partner organization responsible for including the information needed in the website. The partners will be asked to complete a simple questionnaire for each D&C action performed. The questionnaire collects the main data related to an activity, such as date, place, aim, location, target audience etc. The collection and the storage of data will be done in line with the General Data Protection Regulation (UE 2016/679). Each semester, CIAOTECH will perform a check of the D&C actions implemented by the consortium in order to continuously monitor the impact of the communication and dissemination strategy implementation.

This section is accessible at the following link <https://www.cogitor-project.eu/public-documents/> and it will be continuously updated with coherent resources as detailed. The sections will be visible as explained to the public when relevant documents will be available and uploaded there.

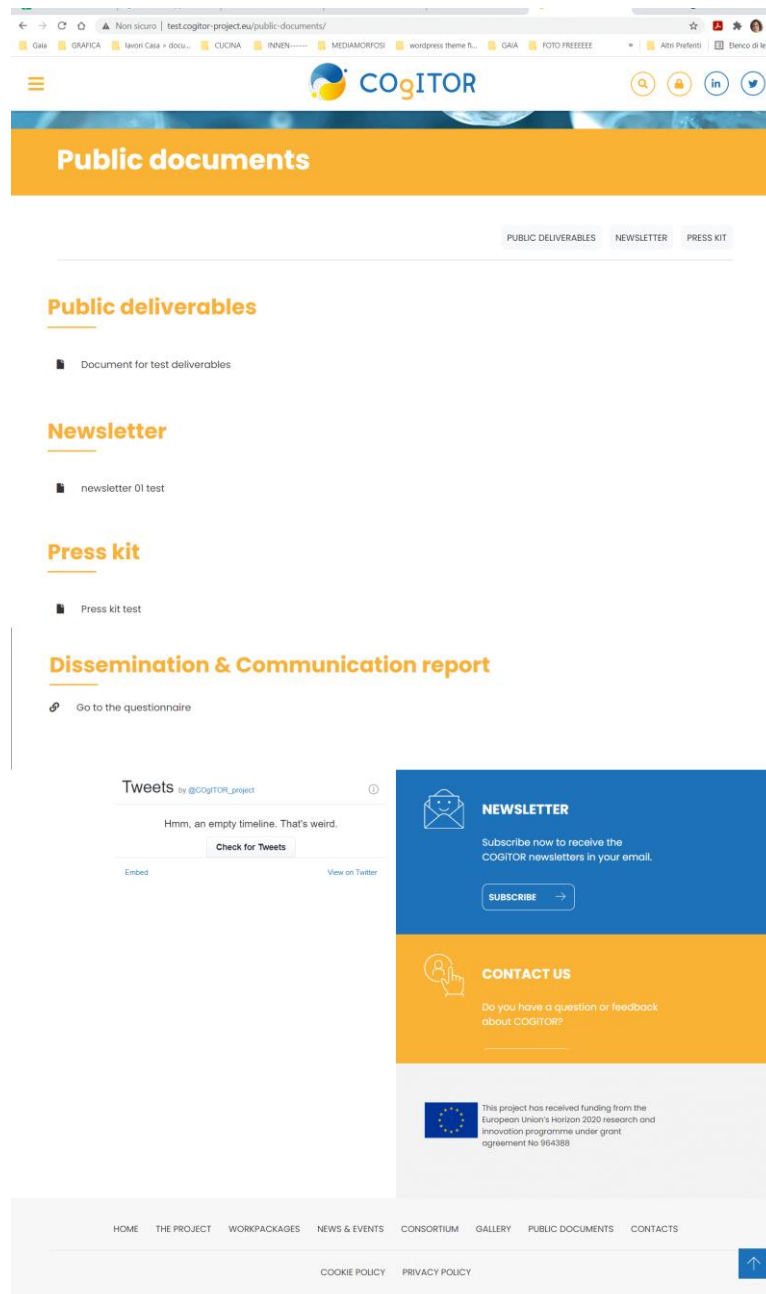


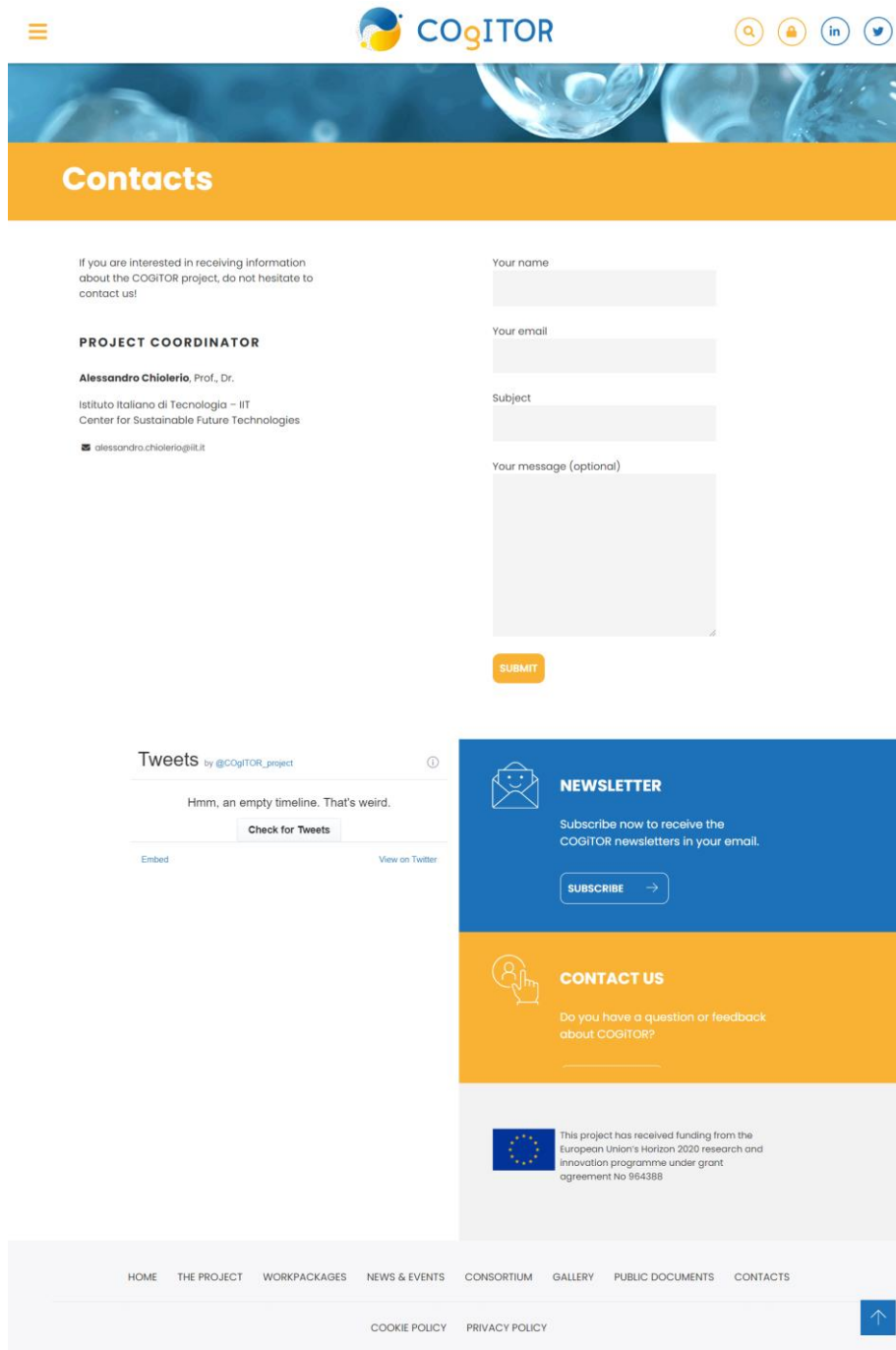
Figure 15 Preview of the Public document page

## 2.7 CONTACTS

The “CONTACTS” section (Figure 15) includes a standard web-based form where interested parties can get in touch with the COgITOR project. The “Contacts” section also includes the name and



contact details of the Project Coordinator, represented by prof. Alessandro Chiolerio from Istituto Italiano di Tecnologia – Center for Converging Technologies.



COgITOR

## Contacts

If you are interested in receiving information about the COGITOR project, do not hesitate to contact us!

**PROJECT COORDINATOR**

**Alessandro Chiolerio**, Prof., Dr.  
Istituto Italiano di Tecnologia – IIT  
Center for Sustainable Future Technologies  
✉ [alessandro.chiolerio@iit.it](mailto:alessandro.chiolerio@iit.it)

Your name

Your email

Subject

Your message (optional)

SUBMIT

**Tweets** by @COgITOR\_project

Hmm, an empty timeline. That's weird.

Check for Tweets

Embed View on Twitter


**NEWSLETTER**

Subscribe now to receive the COGITOR newsletters in your email.

SUBSCRIBE →

**CONTACT US**

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HOME THE PROJECT WORKPACKAGES NEWS & EVENTS CONSORTIUM GALLERY PUBLIC DOCUMENTS CONTACTS

COOKIE POLICY PRIVACY POLICY

Figure 16 Contacts page

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### 3 CONCLUSIONS

The COgITOR website is one of the main dissemination and communication tools for the project and its results. It will be continuously updated with news related to project activities, project progress and project results.