



*FETPROACT*  
*Research and Innovation actions Future and Emerging Technologies*

## MAGnetic nanoparticle based liquid ENergy materials for Thermoelectric device Applications

# MAGENTA

## Website

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<b>Project Duration</b>	48 month		

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## 1. Summary

### 1.1 Description of Work

This Deliverable relates to the establishment of a logo and an interactive online project support platform to serve the MAGENTA project. The platform will allow the public to learn and engage with the MAGENTA project and act as a dissemination platform to the wider scientific audience (public area). The platform will allow partners easy access to up-to-date versions of project reports and documents, a central reference for meetings information (minutes, presentations etc.), financial and budgetary information and an interactive forum for quick discussions. The latter is password protected and open to the project partners only (private secure area).

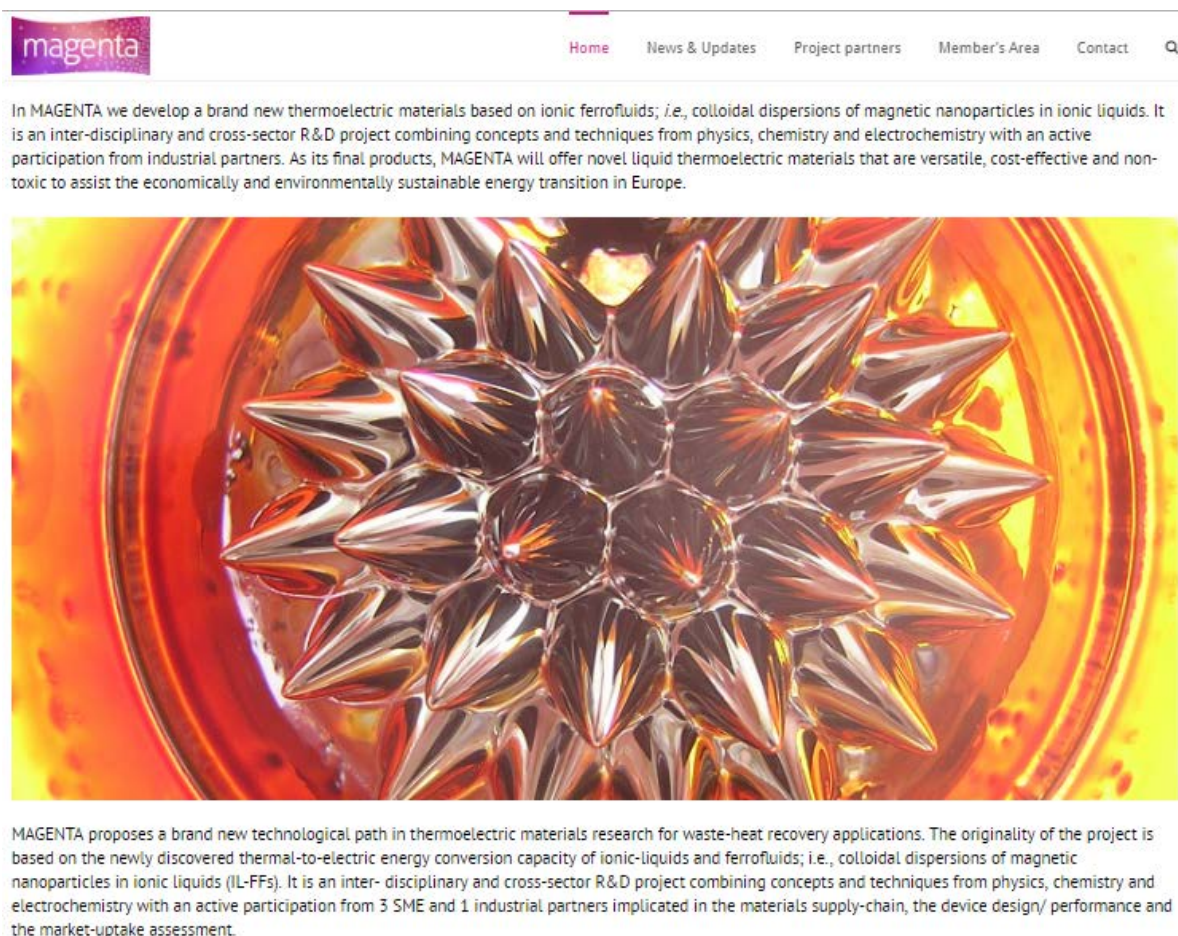
### 1.2 Web address

The MAGENTA website is hosted on a secure https server and can be accessed at:  
[www.magenta-h2020.eu](http://www.magenta-h2020.eu)

## 2. MAGENTA Website

### 2.1 Welcome page

Visitors to the MAGENTA website are welcomed with a description of the project and an image of magnetic ferrofluids – this page will evolve throughout the project to detail result and outcomes.



In MAGENTA we develop a brand new thermoelectric materials based on ionic ferrofluids; *i.e.*, colloidal dispersions of magnetic nanoparticles in ionic liquids. It is an inter-disciplinary and cross-sector R&D project combining concepts and techniques from physics, chemistry and electrochemistry with an active participation from industrial partners. As its final products, MAGENTA will offer novel liquid thermoelectric materials that are versatile, cost-effective and non-toxic to assist the economically and environmentally sustainable energy transition in Europe.

MAGENTA proposes a brand new technological path in thermoelectric materials research for waste-heat recovery applications. The originality of the project is based on the newly discovered thermal-to-electric energy conversion capacity of ionic-liquids and ferrofluids; *i.e.*, colloidal dispersions of magnetic nanoparticles in ionic liquids (IL-FFs). It is an inter-disciplinary and cross-sector R&D project combining concepts and techniques from physics, chemistry and electrochemistry with an active participation from 3 SME and 1 industrial partners implicated in the materials supply-chain, the device design/ performance and the market-uptake assessment.

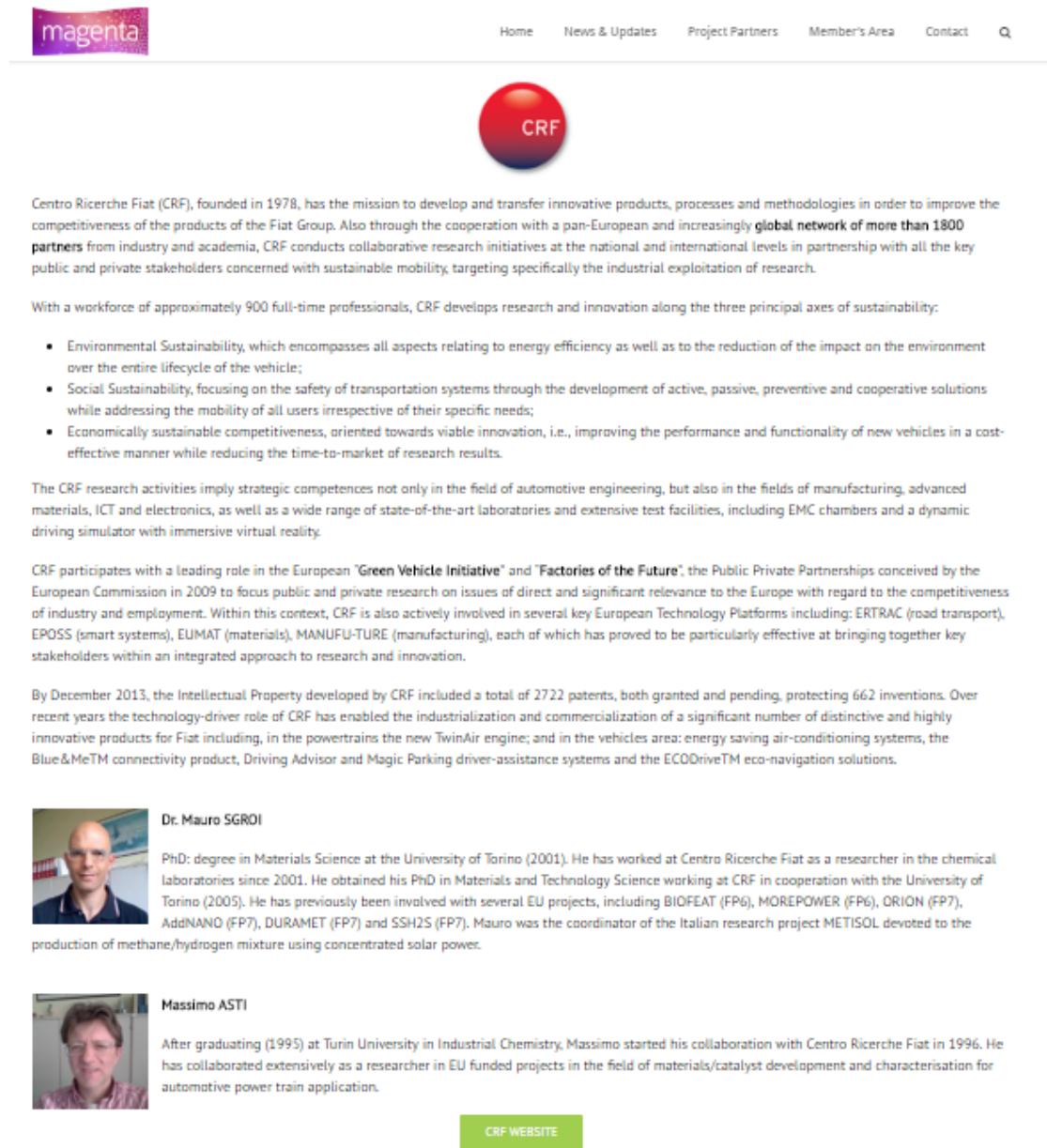
## 2.2 Project Partner page

All the project partners are summarized on the partner landing page and then each individual partner is contained on a separate page which is accessible by clicking on partner's logo.

The screenshot shows the 'Project Partners' page of the MAGENTA project website. At the top, there is a navigation bar with the 'magenta' logo on the left and links for 'Home', 'News & Updates', 'Project Partners' (highlighted in pink), 'Member's Area', 'Contact', and a search icon. Below the navigation bar is a header section with the title 'Project Partners'. The main content area contains a paragraph describing the project's goals and a grid of ten partner logos: C-Tech INNOVATION, c2a IRAMIS spec, Consiglio Nazionale delle Ricerche, CRF, CNR (with a portrait of Galileo Galilei), GDANSK UNIVERSITY OF TECHNOLOGY, gemmate, Hes+SO (University of Applied Sciences Western Switzerland), solvionic, and UPMC CNRS PHENIX. At the bottom of the page, there is a dark grey footer with three columns: 'ABOUT THE PROJECT' (describing the development of thermoelectric materials), 'SEARCH' (with a search input field and a magnifying glass icon), and 'FUNDED BY THE HORIZON 2020 PROGRAMME' (stating the project received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731976).


This page details the partners background, role in the project and key personnel

Example: Partner 7 = CRF (Centro Ricerche Fiat)



The screenshot shows the website for Centro Ricerche Fiat (CRF). At the top, there is a navigation bar with the 'magenta' logo on the left and links for 'Home', 'News & Updates', 'Project Partners', 'Member's Area', and 'Contact' on the right. Below the navigation bar is a large red circular logo with 'CRF' in white. The main content area contains several paragraphs of text and a bulleted list. The text describes CRF's mission, workforce, and research focus on sustainability. The bulleted list details three pillars of sustainability: Environmental, Social, and Economically sustainable competitiveness. Below this, there are sections about CRF's role in European initiatives and its intellectual property portfolio. At the bottom, there are two profiles: Dr. Mauro SGRDI and Massimo ASTI, each with a small portrait photo and a short biography. A green button labeled 'CRF WEBSITE' is positioned at the bottom center of the page.

Home News & Updates Project Partners Member's Area Contact



Centro Ricerche Fiat (CRF), founded in 1978, has the mission to develop and transfer innovative products, processes and methodologies in order to improve the competitiveness of the products of the Fiat Group. Also through the cooperation with a pan-European and increasingly **global network of more than 1800 partners** from industry and academia, CRF conducts collaborative research initiatives at the national and international levels in partnership with all the key public and private stakeholders concerned with sustainable mobility, targeting specifically the industrial exploitation of research.

With a workforce of approximately 900 full-time professionals, CRF develops research and innovation along the three principal axes of sustainability:

- Environmental Sustainability, which encompasses all aspects relating to energy efficiency as well as to the reduction of the impact on the environment over the entire lifecycle of the vehicle;
- Social Sustainability, focusing on the safety of transportation systems through the development of active, passive, preventive and cooperative solutions while addressing the mobility of all users irrespective of their specific needs;
- Economically sustainable competitiveness, oriented towards viable innovation, i.e., improving the performance and functionality of new vehicles in a cost-effective manner while reducing the time-to-market of research results.

The CRF research activities imply strategic competences not only in the field of automotive engineering, but also in the fields of manufacturing, advanced materials, ICT and electronics, as well as a wide range of state-of-the-art laboratories and extensive test facilities, including EMC chambers and a dynamic driving simulator with immersive virtual reality.

CRF participates with a leading role in the European "Green Vehicle Initiative" and "Factories of the Future", the Public Private Partnerships conceived by the European Commission in 2009 to focus public and private research on issues of direct and significant relevance to the Europe with regard to the competitiveness of industry and employment. Within this context, CRF is also actively involved in several key European Technology Platforms including: ERTRAC (road transport), EPOSS (smart systems), EUMAT (materials), MANUFU-TURE (manufacturing), each of which has proved to be particularly effective at bringing together key stakeholders within an integrated approach to research and innovation.

By December 2013, the Intellectual Property developed by CRF included a total of 2722 patents, both granted and pending, protecting 662 inventions. Over recent years the technology-driver role of CRF has enabled the industrialization and commercialization of a significant number of distinctive and highly innovative products for Fiat including, in the powertrains the new TwinAir engine; and in the vehicles area: energy saving air-conditioning systems, the Blue&Me™ connectivity product, Driving Advisor and Magic Parking driver-assistance systems and the ECODrive™ eco-navigation solutions.

**Dr. Mauro SGRDI**

PhD: degree in Materials Science at the University of Torino (2001). He has worked at Centro Ricerche Fiat as a researcher in the chemical laboratories since 2001. He obtained his PhD in Materials and Technology Science working at CRF in cooperation with the University of Torino (2005). He has previously been involved with several EU projects, including BIOFEAT (FP6), MOREPOWER (FP6), ORION (FP7), AddNANO (FP7), DURAMET (FP7) and SSH2S (FP7). Mauro was the coordinator of the Italian research project METISOL devoted to the production of methane/hydrogen mixture using concentrated solar power.

**Massimo ASTI**

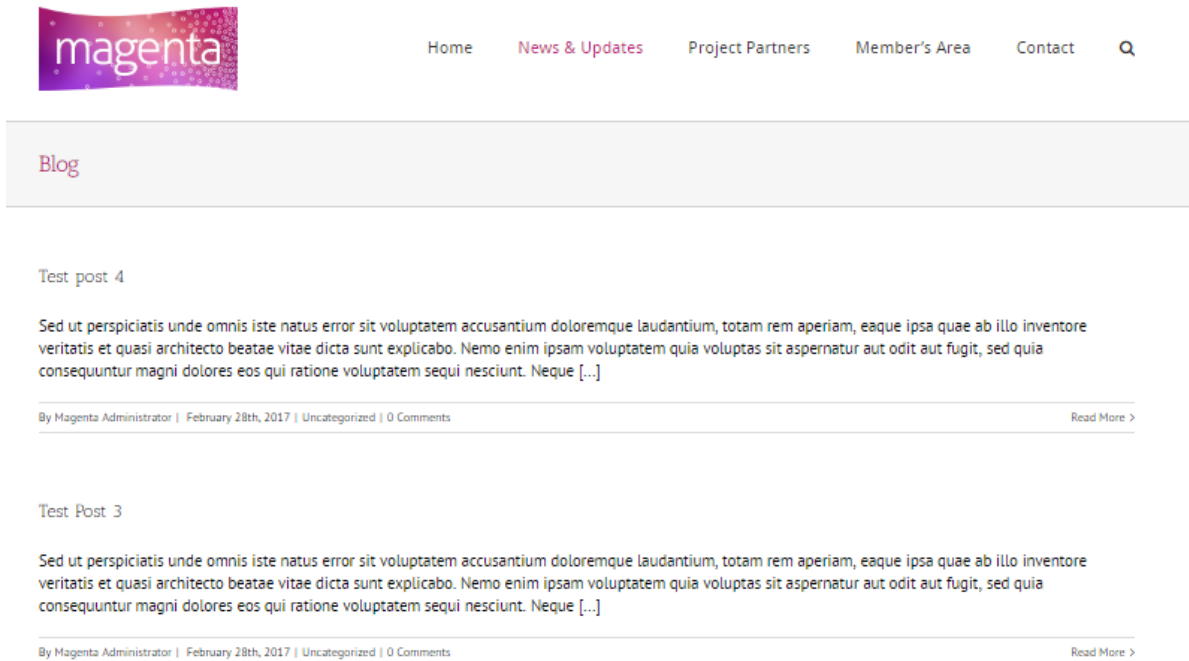
After graduating (1995) at Turin University in Industrial Chemistry, Massimo started his collaboration with Centro Ricerche Fiat in 1996. He has collaborated extensively as a researcher in EU funded projects in the field of materials/catalyst development and characterisation for automotive power train application.

[CRF WEBSITE](#)



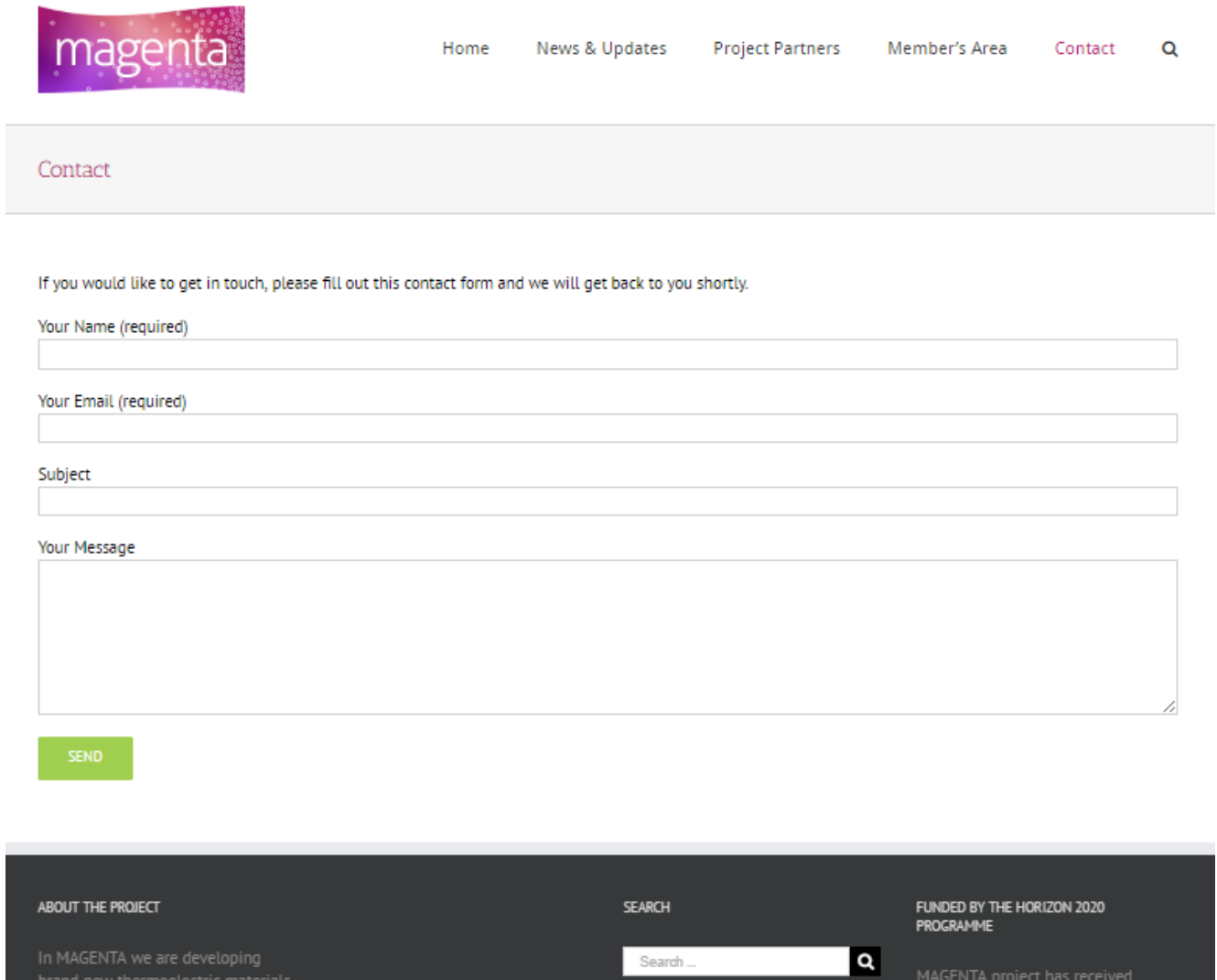
## 2.3 News & Updates

This page will contain highlights from the project and news articles, including publications. Below is an example view:



## 2.4 Contact Page

The website has the facility for anyone to contact the web administrator and coordinator:



The screenshot shows the contact page of the MAGENTA project website. At the top left is the MAGENTA logo, a purple and pink wave with the word 'magenta' in white. To the right is a navigation menu with links for 'Home', 'News & Updates', 'Project Partners', 'Member's Area', and 'Contact' (highlighted in pink), followed by a search icon. Below the navigation is a grey header bar with the word 'Contact' in pink. The main content area contains the following text and form elements:

If you would like to get in touch, please fill out this contact form and we will get back to you shortly.

Your Name (required)

Your Email (required)

Subject

Your Message

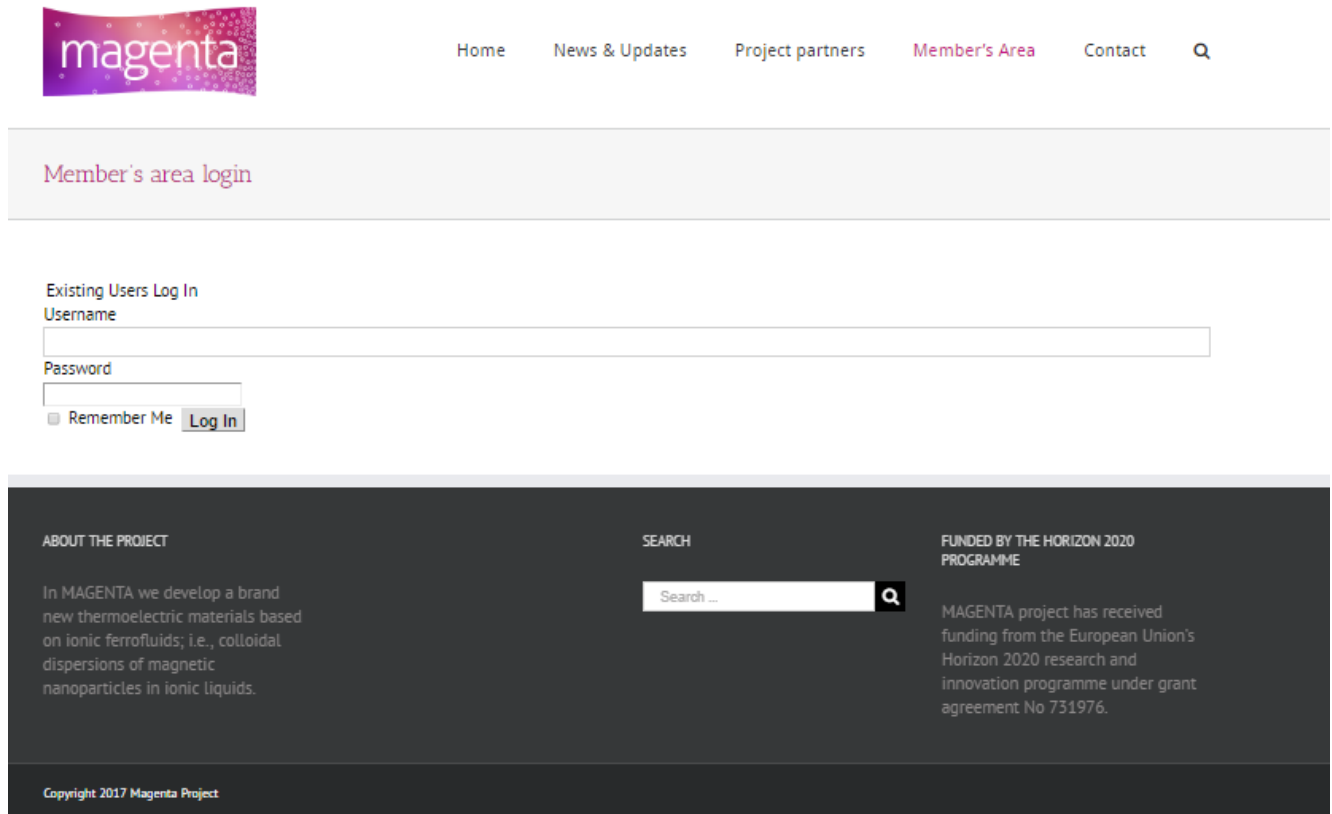
SEND

At the bottom, there is a dark grey footer bar with three sections: 'ABOUT THE PROJECT' (with the text 'In MAGENTA we are developing brand new thermoelectric materials'), 'SEARCH' (with a search input field containing 'Search ...' and a search icon), and 'FUNDED BY THE HORIZON 2020 PROGRAMME' (with the text 'MAGENTA project has received').

### 3. Secure area

#### 3.1 Member's area

This section can only be accessed with a password. The access to this area is controlled by C-Tech Innovation and will house confidential information to be shared between project partners. This will also act as a basic file repository for meeting minutes, actions etc.



### 4. Conclusion

The MAGENTA website has been successfully constructed and released to the partners and the wider scientific community. It will be continually updated throughout the project to reflect the progress.