

D8.1 – Project Website

Project Information

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Project Acronym	SMARTFAN
Funding scheme	RIA
Start date of the project	January 1 st , 2018
Duration	48 months
Project Coordinator	Costas CHARITIDIS (NTUA)
Project Website	http://www.smartfan-project.eu

Deliverable Information

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Deliverable title	Project Website
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WP Leader	WG
Contributing Partners	/
Nature	Website, patents, filling, etc.
Authors	Sara ATTANÀ (WG)
Contributors	Costas CHARITIDIS (NTUA)
Reviewers	
Contractual Deadline	30 th April 2018
Delivery date to EC	

Dissemination Level

PU	Public	✓
PP	Restricted to other programme participants (incl. Commission Services)	
RE	Restricted to a group specified by the consortium (incl. Commission Services)	
CO	Confidential, only for the members of the consortium (incl. Commission Services)	

Document Log

Version	Date	Author	Description of Change
1.0	20/04/2018	Sara Attanà (WG)	First Draft

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1 Executive Summary

Deliverable 8.1 is a report on SMARTFAN Project Website, which can be considered as one of the most relevant dissemination tools to be used by the project consortium in order to reach a wide public and communicate project progress and results.

The website will also include a direct link to the SMARTFAN's collaborative platform, a private area to which only project partners have access.

Therefore, the main content of this document is focused on the description of the project website in terms of design, structure and contents.

2 Introduction

The development of the website of SMARTFAN project is one of the activities related to WP8 dealing with the Standardization, Exploitation, Dissemination & Communication activities of the project.

WARRANT GROUP has been in charge of the setup of the website that is continuously updated with the assistance and the advice of all the project partners.

The website can be found in the following URL: <http://www.smartfan-project.eu>

3 Main Objectives

Project websites are one of the main communication tools of projects funded under the EU H2020 Programme. To ensure maximum visibility to the SMARTFAN objectives and results we have set up a project website registered in the “eu” domain and with intuitive URLs to increase hit rates:

<http://www.smartfan-project.eu/>

The design of the website builds upon the following criteria and considers suggestions given in the EU Project Websites – Best Practice Guidelines (EC, 2010):

- I. **Visual communication:** use of colours and/or photos, web pages are easy to browse, information is kept short and links are included to websites, publications, and so on.
- II. **Verbal communication:** the website uses simple phrasing, no jargon is used to attract the widest possible audience, e-devices are user friendly.
- III. **Visibility:** maximum use of free or affordable methods to increase page ranking on search engines, Webmaster Tools provided by search engines to check indexing status, good cross-linking between the different pages of the site, adding keywords to the web page metadata; use of frequently used keyword search phrases both in the metadata and in the contents pages.
- IV. **Regular update of contents:** the website is maintained by WG and the update will be regularly done by the Webmaster upon inputs of the Project Dissemination Manager and of partners, the use of social media (e.g. social networks such as Twitter and Facebook) has been considered.
- V. **Monitoring and feedback tools:** the website includes a counter of visitors or other statistical tools that will be used to measure the number of visits.

4 Description of work

4.1 Public Website

The public section of SMARTFAN website provides:

- a brief overview of the project and further details about its objectives, contents and structure;
- the composition of the project consortium, the links to the partners' websites and the contact of the project coordinator;
- access to the project public deliverables and to the dissemination material prepared (e.g. leaflets, posters, press release and presentations);
- information about SMARTFAN events, such as SMARTFAN meetings and workshops, as well as conferences and external events where the project will have an active role (e.g. presentation of paper(s), organisation of sessions, stands with demos, etc.).

The public website has several sections and sub sections devoted to present the project to external visitors, all accessible from the home page and described into details in the following paragraphs.

In each section, at the bottom of the pages, you can find:

- ✓ the acknowledgement of the EU co-funding, also by the inclusion of the relevant logo claiming that "This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement n. 760779";
- ✓ the logos of SMARTFAN social profiles: Facebook, Twitter and LinkedIn;
- ✓ some SMARTFAN project details.

4.1.1 Home

The home page of the website (see Figure 1) introduces SMARTFAN project and it gives relevant information about its objectives and structure.

On the top part of the home page, the logo and the full name of the project can be seen. Clicking on the main image, it is possible to visit the page dedicated to SMARTFAN objectives and the events' page. By scrolling to the bottom of the page, the main figures of the project are shown:

- the total EU contribution;
- the number of partners;
- the duration of the project.

Below this small section, a row with a short description presents the project and gives the possibility to deepen into the project objectives; next to it, an overview of the project's forthcoming events is shown with a button connected to the events' page.

A further section (see Figure 2) reports all the partners involved in the project; below them, project coordinator contact details have been indicated in order to contact him for further information about the project.

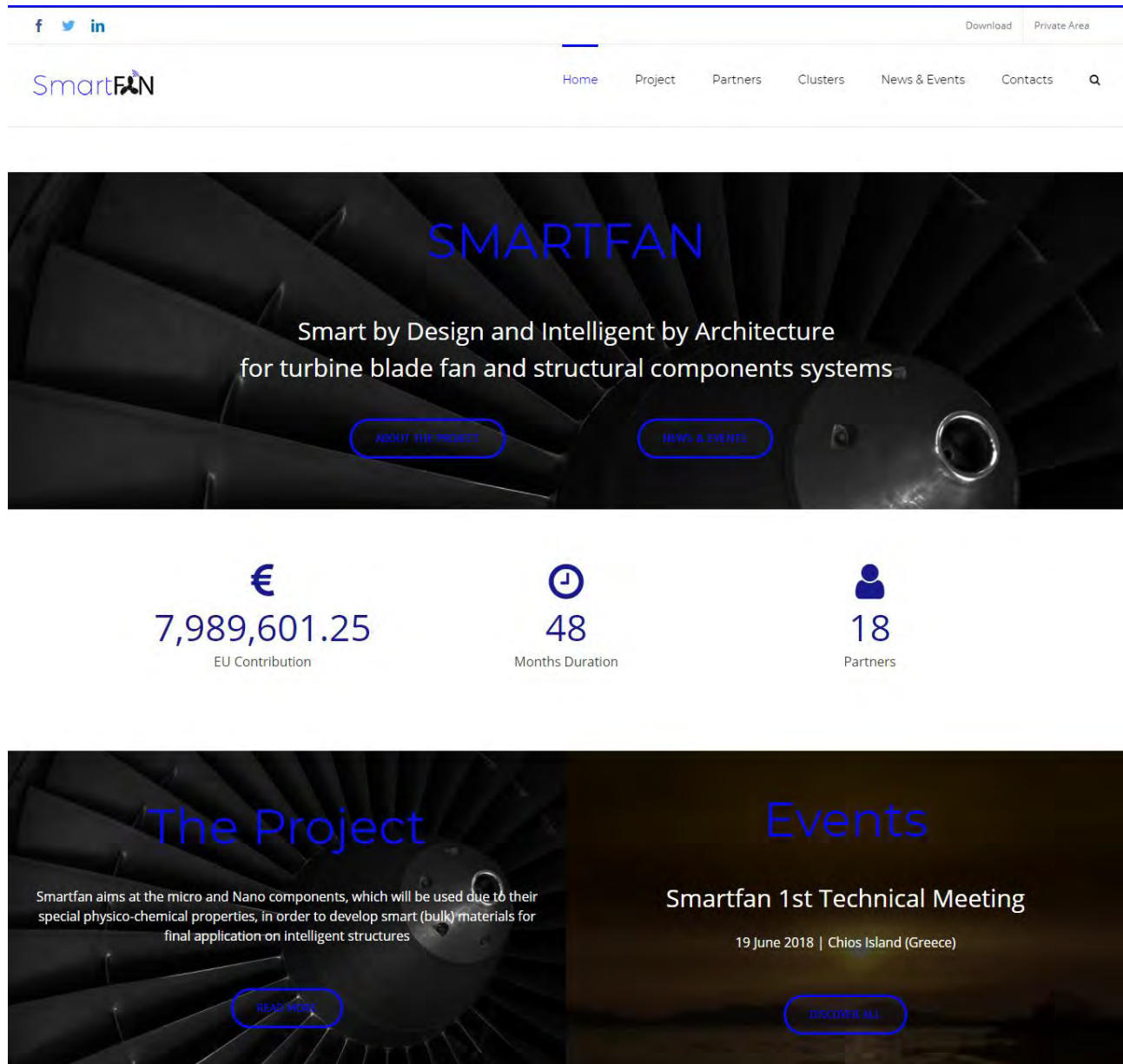


Figure 1: Home

Partners



Contacts

Project Coordinator

Costas CHARITIDIS



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PROJECT DETAILS:

PROJECT REFERENCE: 760779
START/END: Jan 2018 – Dec 2021
TOTAL COST: EUR 7,989,601.25
EU CONTRIBUTION: EUR 7,989,601.25
PROGRAMME ACRONYM: SMARTFAN
CALL IDENTIFIER: H2020-NMBP-2017-two-stage
TOPIC: NMBP-04-2017 Architecture/Advanced material concepts for intelligent bulk material structures



This project has received funding from the European Union's Horizon2020 research and innovation programme under grant agreement n. 760779

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Figure 2: Home

4.1.2 Project

The label “Project” on the main menu introduces 2 subsections related to the project structure.

These subsections are:

- **Objectives** (see Figure 3): This page is dedicated to project aims, main objectives and expected goals;
- **Main Challenges** (see Figure 4): In this page the visitor can find the 7 main challenges of the project.

SMARTFAN proposes the development of “smart” material and product architectures, with integrated functionalities, that will interact with their environment and react to stimuli by employing biomimetic, selfsensing, actuating and damage-repairing technologies. Their smartness is based on bio-inspired engineering and the use of:

- low and high grade carbon fibres (CF)
- CF reinforced polymers (CFRPs)
- nano-/micro- composites with special physicochemical properties, in order to develop smart (bulk) materials, applied on intelligent structures

Special functions of the smart materials involve:

- CFs for reinforcement of the structure and creation of conductivity gradients
- Carbon Nano Tubes (CNTs) and Carbon Nano Fibres (CNFs) for sensing, (iii) micro-hollow particles for self-healing
- electro-magnetic nanoparticles that enable field detection and shielding
- coloring agents or marking cracks and defects
- intelligent communication through internet of Things (IoT)

The diagram illustrates the transition from current materials to SMARTFAN L & G concepts, which are intelligent by architecture structures. It highlights smart design materials and their applications in Industry 4.0, including self-repair, self-healing, and self-sensing materials.

Expected Goals



Development of “smart and green” chemical composites that will be recyclable and reusable



Production of CFs using renewable resources (e.g. bio-based applications) while higher cost CFs can be produced for more demanding applications



Development of system design strategies that will use this feature by applying CFRP as a bulk material with **selfsensing** characteristics



Development of new strategies and processes for pilot scale production of both high and low cost CFs

SMARTFAN will approach intelligent structures through two different **design concepts**, the **L concept** and **G concept**. The **L concept** will be based on **multilayer architectures of composite materials**, while the **G concept** will focus on composite architectures including variable **fibre grids**.

[DISCOVER SMARTFAN MAIN CHALLENGES](#)

Figure 3: Objectives

[f](#) [t](#) [in](#)

DownloadPrivate Area

SmartFAN


HomeProjectPartnersClustersNews & EventsContacts

Q

Main Challenges

1. Novel concepts for intelligent components and structures with integrated functionalities that are able to communicate and interact with their environment, store data about their condition and react accordingly to external stimuli.
2. Development of materials that can alter their physical properties and shape
3. Intelligent structures and components that provide information of their in-service conditions
4. Self-repair, selfhealing, lightweight composites that inform the user of any internal damage without the need of time consuming measurement techniques.
5. Non-destructive examination
6. Materials or structures that can undergo shape change either passively or by activation. Functionally, Graded composite Materials (FGMs), energy storing components.
7. Predictive modelling of materials functionalities for those materials for which there are currently no accurate commercial or open-source codes available

PROJECT DETAILS:



This project has received funding from the European Union's Horizon2020 research and innovation programme under grant agreement n. 760779

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Figure 4: Main Challenges

4.1.3 Partners

In this section the list of SMARTFAN's partners is displayed. For each partner the logo is shown, with a hyperlink to the reference site home page. (see Figure 5).

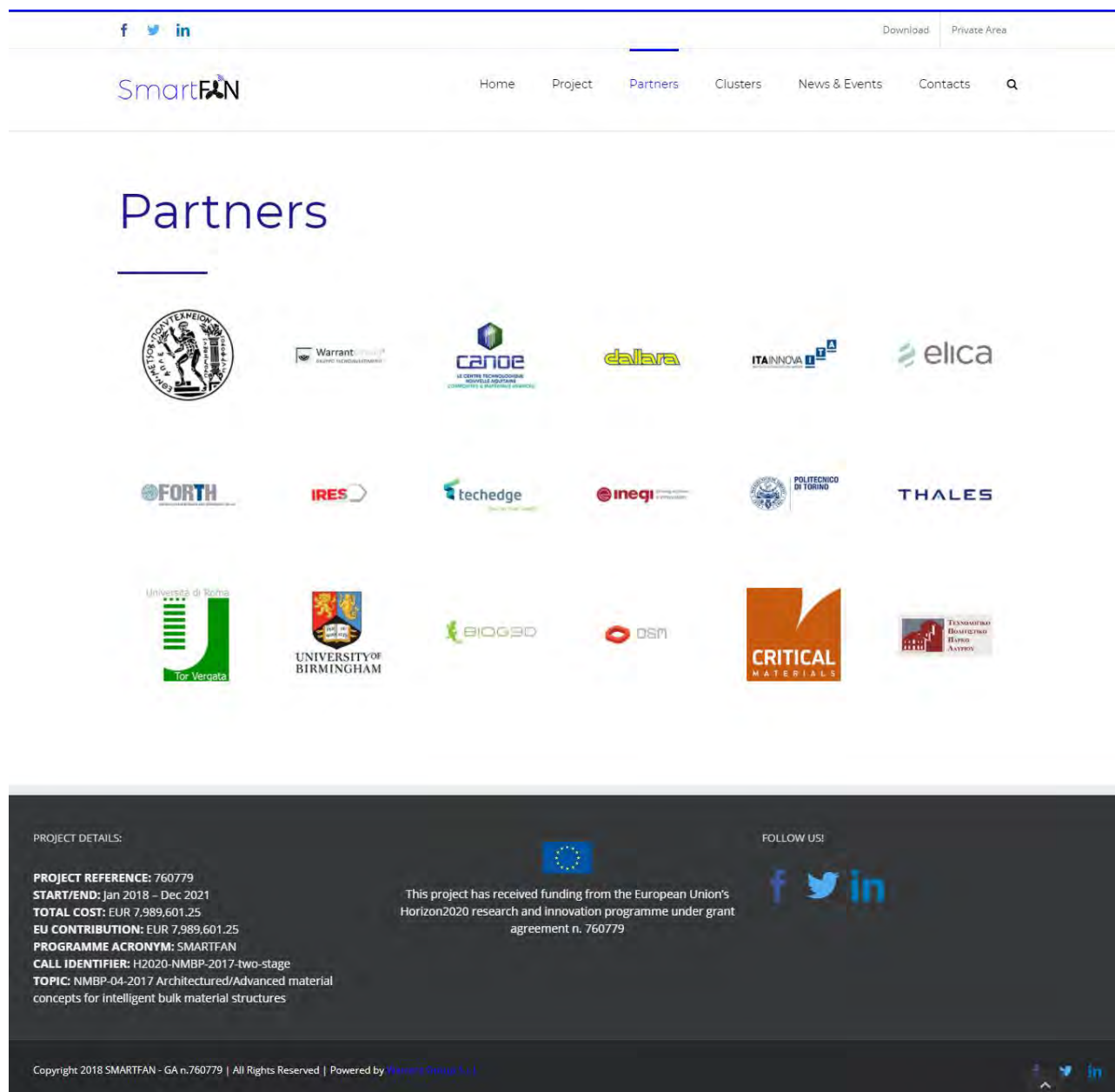


Figure 5: Partners

4.1.4 Clusters

This section (see Figure 6) shows the logos of the clusters to which the partners involved in the SMARTFAN project belong. These clusters are: [CARBON FIBRES & ADVANCED HIGH PERFORMANCE COMPOSITES CLUSTER \(CFPC\)](#), [THE EUROPEAN MATERIALS MODELLING COUNCIL \(EMMC\)](#), [THE EUROPEAN MATERIALS CHARACTERISATION COUNCIL \(EMCC\)](#), [NANOSAFETY CLUSTER](#) and [ECHOES CLUSTER](#). Each logo is linked with the reference site home page.

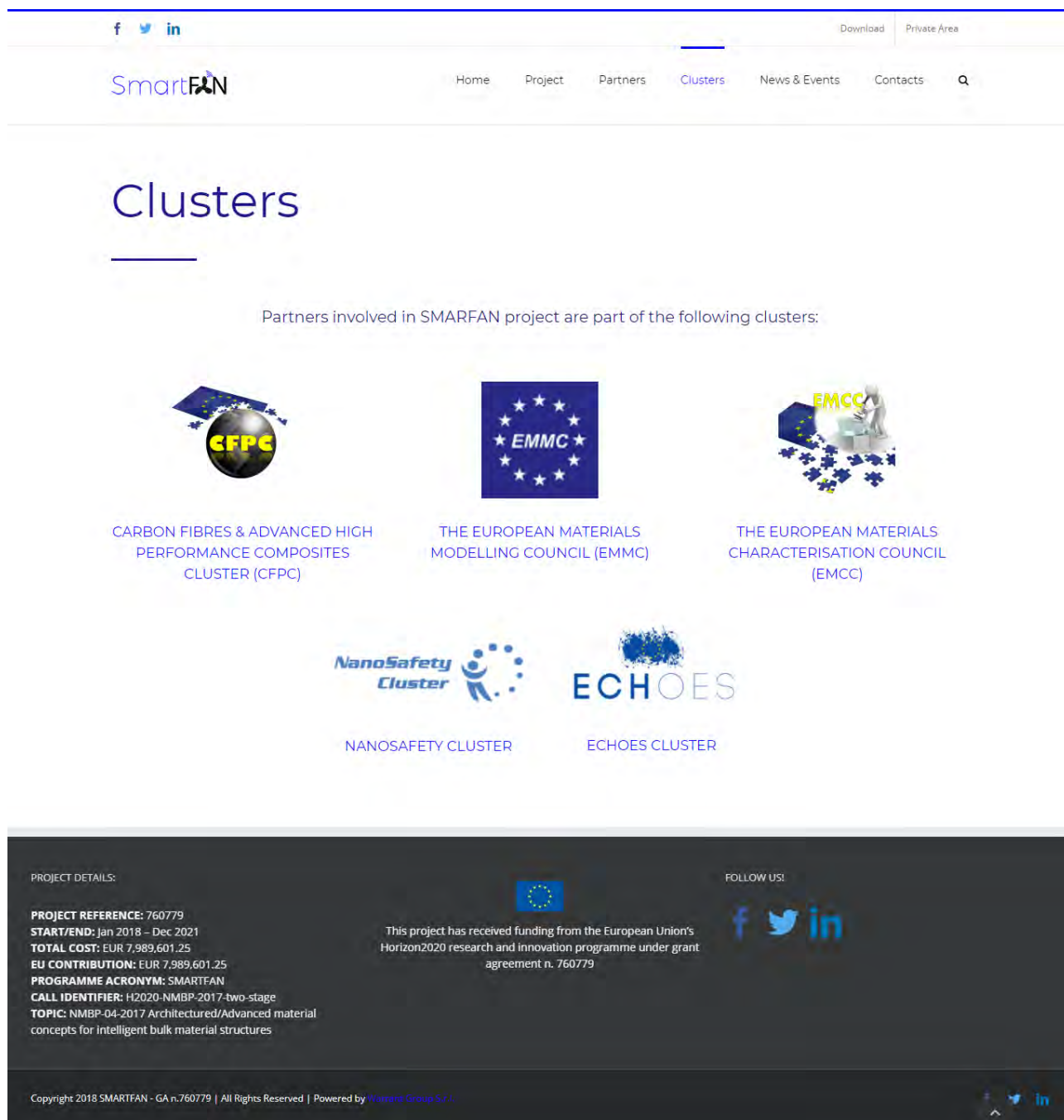
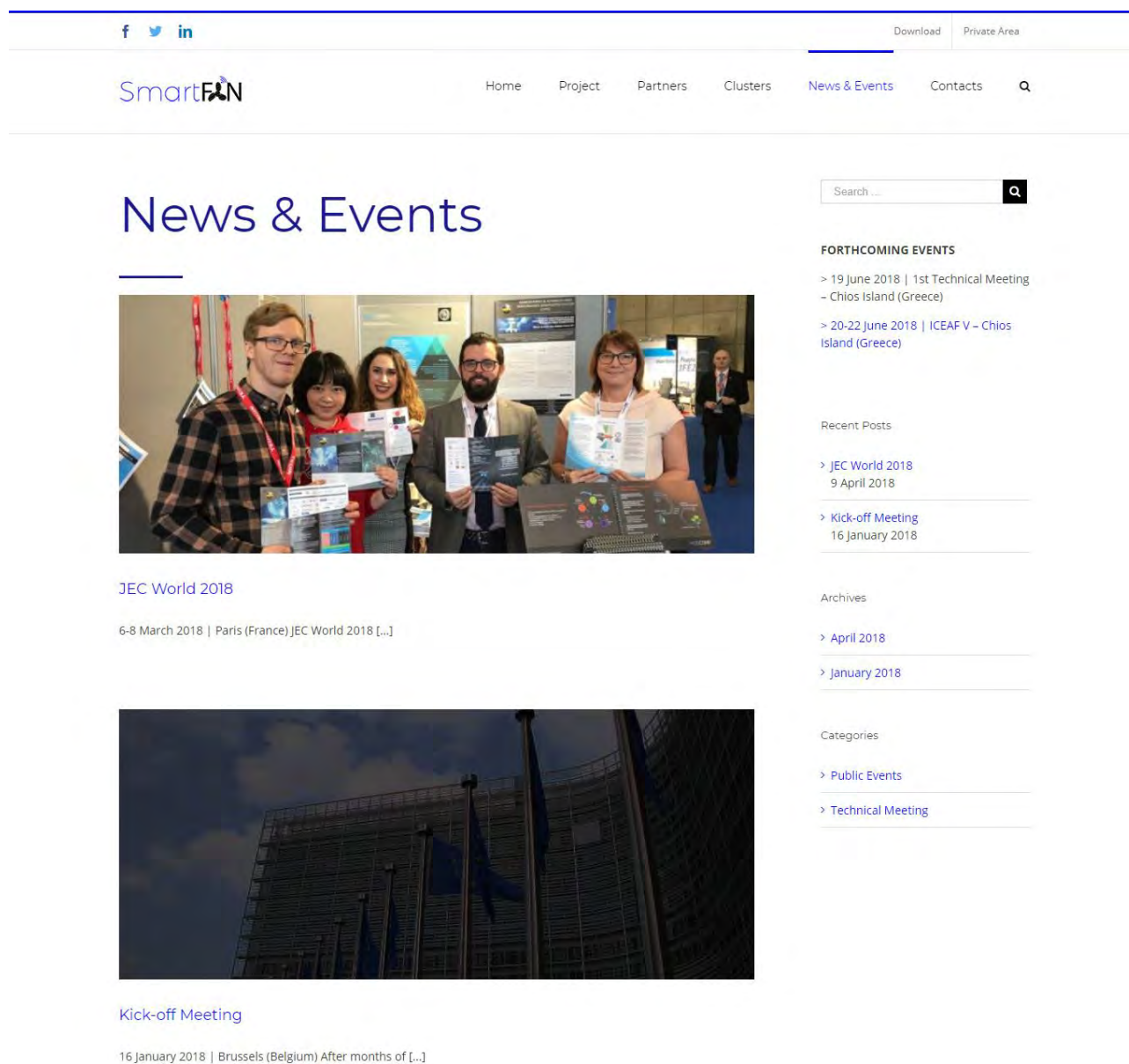


Figure 6: Clusters

4.1.5 News & Events

This section (see Figure 7) shows the complete list of events of the SMARTFAN's projects (past and forthcoming).

Clicking on each event, it is possible to find further information about the main themes addressed by it, its main results and to see some pictures.



The screenshot displays the 'News & Events' section of the SMARTFAN project website. The header includes social media links (Facebook, Twitter, LinkedIn), a 'Download' button, and a 'Private Area' link. The main navigation bar contains links for Home, Project, Partners, Clusters, News & Events (highlighted), and Contacts, along with a search icon. The page title 'News & Events' is prominently displayed. Below the title, there is a large image of five people holding project brochures at a conference. To the right, a search bar and a 'FORTHCOMING EVENTS' section are visible. The 'FORTHCOMING EVENTS' section lists two upcoming events: '19 June 2018 | 1st Technical Meeting - Chios Island (Greece)' and '20-22 June 2018 | ICEAF V - Chios Island (Greece)'. Below this, a 'Recent Posts' section lists 'JEC World 2018' (9 April 2018) and 'Kick-off Meeting' (16 January 2018). An 'Archives' section shows links for 'April 2018' and 'January 2018'. A 'Categories' section lists 'Public Events' and 'Technical Meeting'. The main content area features two event entries: 'JEC World 2018' (6-8 March 2018 | Paris (France)) and 'Kick-off Meeting' (16 January 2018 | Brussels (Belgium)). Each entry includes a thumbnail image and a brief description.

News & Events

FORTHCOMING EVENTS

- > 19 June 2018 | 1st Technical Meeting - Chios Island (Greece)
- > 20-22 June 2018 | ICEAF V - Chios Island (Greece)

Recent Posts

- > JEC World 2018
9 April 2018
- > Kick-off Meeting
16 January 2018

Archives

- > April 2018
- > January 2018

Categories

- > Public Events
- > Technical Meeting

JEC World 2018

6-8 March 2018 | Paris (France) JEC World 2018 [...]

Kick-off Meeting

16 January 2018 | Brussels (Belgium) After months of [...]

Figure 7: News & Events

4.1.6 Contacts

This section (see Figure 8) enables people to get in touch easily with the Project Coordinator and the Dissemination Manager whose membership organization, e-mail address and telephone number are provided.

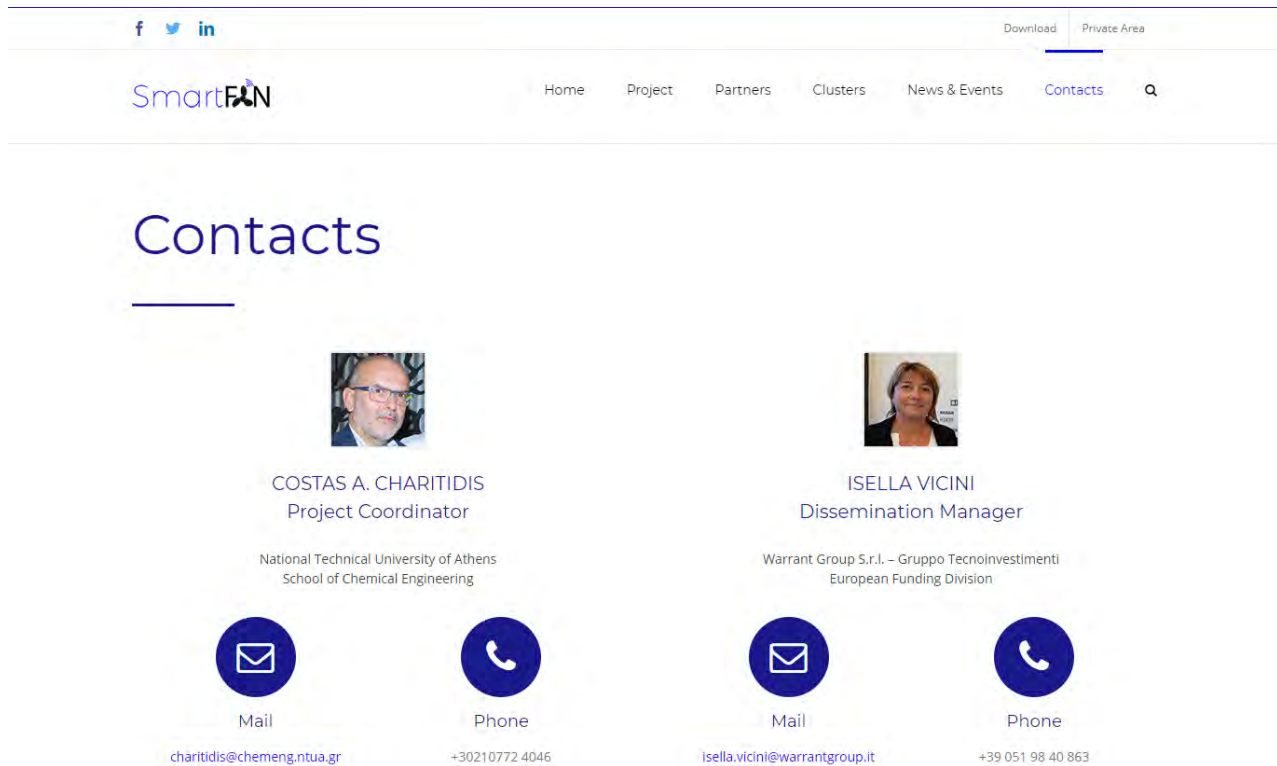


Figure 8: Contacts

4.1.7 Download

On the top of the website, in the secondary menu, there's a link called "Download". Clicking here, it will be possible to download press material, leaflet and posters.

4.1.8 Private Area

On SMARTFAN website homepage, in the secondary menu, there is a link called "Private Area" that allow to access the SMARTFAN's collaborative platform (see Figure 9). This collaborative space has been developed by OSM and a password is mandatory to gain access to it.

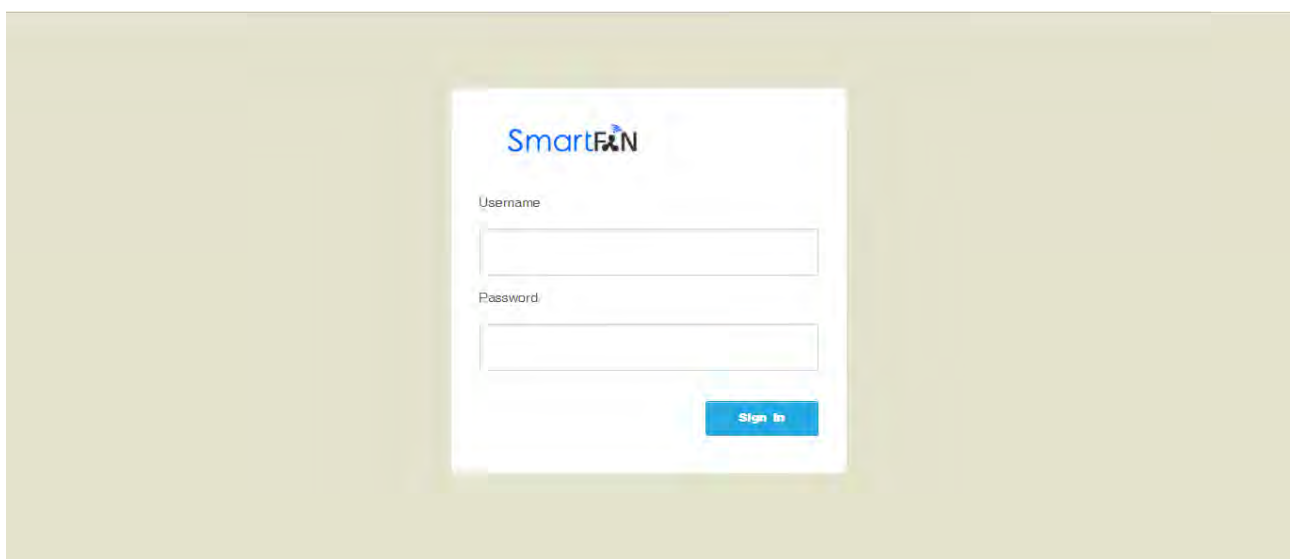


Figure 9: Private Area

5 Conclusion

SMARTFAN website will be periodically updated by WG with the contribution of all the partners of the project. The updates will be related to new conferences and events in which the project will participate, news and/or publications related to SMARTFAN, images and updates from project meetings. Public deliverables and newsletters published by OSM will be uploaded in the download section. Finally, a section dedicated to the results of the project will be created in which the data and images of the materials and technologies developed in the project will be published.