

# WEBSITE LAUNCHING

## Deliverable 8.3



**Embedded Life-Cycle Management  
for Smart Multimaterials Structures:  
Application to Engine Components**



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No GA 101006854

# Deliverable D8.3

## Title: Website launching

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**Type:** OTHER

**Version:** 1.0

Dissemination Level		
<input checked="" type="checkbox"/>	<b>PU</b>	Public
<input type="checkbox"/>	<b>CO</b>	Confidential, only for members of the consortium (including the Commission Services)

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# ABSTRACT

This document contains all the information about the construction and launching of the official MORPHO web site. It gives details on the tools used to develop the website and illustrates the different pages it contains. The MORPHO website is the main tool of the Project's Dissemination and Communication Plan, which reflects the rest of the communicative actions and the generation of results. Therefore, its design, management and maintenance are key activities. This website will be a dynamic platform that can accompany the project's development.

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# 1. Introduction

The MORPHO website was structured and designed as the vehicle for dissemination of the work, both to the general public and also to experts in the field. The website is the meeting place for all stakeholders, media and general public interested in the project. Dissemination and communication strategies and campaigns developed online and offline will be complementary and will aim to attract visitors to the website.

The website will provide detailed information about the MORPHO project objectives and activities. The intended use is for public dissemination. The objective will be that this website will be constantly updated with material such as upcoming meetings, participations in events, dissemination actions, conferences, publications, newsletters, news, photos, etc. It will be a key enabler for communications between project partners, stakeholders and the wider public to share project outcomes. It will be open to the general public and will be viewable by anyone with access to Internet.

The following domain name was register to host the website: <http://morpho-h2020.eu/>

As the work package leader, FEUGA was the partner in charge of the webpage construction and it will be responsible of its maintenance. The website was designed aiming to follow the main work package objective, which is: defining and implementing the overall strategy to maximize the impact of MORPHO project (communication, dissemination and exploitation) following project results and facilitating the participation and dialogue with stakeholders and existing networks.

Responsive Web Design makes MORPHO page look good on all devices (desktops, tablets, and phones). Also, responsive Web Design is about using HTML and CSS to resize, hide, shrink, enlarge, or move the content to make it look good on any screen.

## 2. The MORPHO website structure

The website has been built using WordPress, which facilitates updating by the project management team over the duration of the project. All sections of the website have on top the MORPHO logo and on the bottom a reference to the Horizon 2020 funding by the European Union.

At the top, there are six labels, three of them with a drop-down menu, that point to the various sections available. At the top right, all the links to MORPHO social media, the newsletter and the intranet are presented.

### 2.1. Home

The main page presents the MORPHO project at a glance, explaining the main objectives of the project. At the bottom of the page the most recent news display in a carousel format, so the website visitors can immediately be informed about the latest actions within the project.



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## D8.3 – Website launching

**Embedded Life-Cycle Management for Smart Multimaterials Structures: Application to Engine Components**

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### A new generation of aeronautical structures

Developing standards to enable a reliable, sustainable, agile, and cost-competitive industrialization of smart structures for aeronautics

**Innovative industrial process**

MORPHO will accompany the development of smart aeronautical parts namely engine fan blades, to endow them with cognitive capabilities, and to optimise their manufacturing and their life cycle management through embedded sensors, data driven hybrid twins, and machine learning algorithms.

**Foreign Object Damage**

MORPHO will deal with developing and testing technological bricks on a demonstrator named Foreign Object Damage (FOD) panel. It is representative of the chord of a fan blade at a specific height.

**Environmental-friendly manufacturing**

A particular focus lies on the environmental-friendly manufacturing, maintenance, and recycling of these next-generation smart engine fan blades, leading to significant industrial and environmental efficiency in line with the European Commission Circular Economy Action Plan.

*"Manufacturing, Overhaul, Repair for Prognosis Health Overreach"*

**Consortium**

The MORPHO project is a collaboration of 10 partners from 6 countries supported by an advisory board. Academia and industry in the field of aeronautics and air transport join forces for a common goal.

**EU-funded project**

The MORPHO project is a Research and Innovation action funded by the Horizon 2020 programme, under EU-3.4 - SOCIETAL CHALLENGES - Smart, Green And Integrated Transport.

**Timeline**

Starting in April 2021 and spanning 3.5 years – until September 2024 MORPHO will contribute to developing standards that will enable cost-competitive industrialization of smart structures for aeronautics.

### Latest News From Our Blog

Morpho has taken part in the 11th EASN International Conference

MORPHO present at the EU Green Week partner event "Circular aviation for green growth"

MORPHO: an EU-funded project to develop a new generation of aeronautical structures

MORPHO celebrates online the kick-off meeting

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Figure 1. Home page



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### 2.2. About

The MORPHO project is explained in detail through each sub-section. All the information related to the origin, objectives, financing, activities and expectations is collected here.

This page is split in the following sub-sections:

- Project Overview
- Work Packages
- Objectives
- Expected Impact

#### 2.2.1. Project Overview

This section briefly explains the project nature, financing and goals. The images generated to achieve a better understanding of the explanation given, follow the design guidelines created on the Book of Style.

**PROJECT OVERVIEW**

MORPHO is an industrial research project, financed by the Horizon 2020 programme with a budget of €5 million, whose ambition is to accompany the development of smart aeronautical parts namely engine fan blades, to endow them with cognitive capabilities, and to optimise their manufacturing and their life cycle management.

MORPHO "Manufacturing, Overhaul, Repair for Prognosis Health Overreach" aims to, design, develop, test and validate an innovative, robust, and environmentally friendly industrial process to manufacture, monitor, and recycle a new generation of intelligent, multifunctional, multi-material parts such as engine fan blades. This process will rely on embedded sensors, data-driven hybrid twins, and machine learning algorithms to track the entire life cycle of the targeted aeronautical parts in real-time.

The final goal of MORPHO is to contribute to developing standards that will enable a reliable, sustainable, agile, and cost-competitive industrialization of smart structures for aeronautics.

**MORPHO GENERAL CONCEPT**  
SMART STRUCTURES & EMBEDDED LIFE CYCLE MANAGEMENT

MANUFACTURING PROCESS with automated quality control

EMBEDDED SENSORS And Predictive Health Management

SMART & ECOLOGICAL DISASSEMBLING

RE-USE OF MATERIAL AND HARDWARE

FAIL-SAFE CO-DESIGN (materials, sensors, algorithms)

DIGITAL DATA Hybrid Twin

The fan blades are designed and manufactured using a hybrid material. The core body of the fan blades is built up with a 3D-woven composite, while the leading edge is made of titanium. As an example, this material technology is used in the LEAP9 Engine family (1A, 1B, 1C), allowing them a mass gain while exhibiting high strength and fracture toughness.

MORPHO will deal on developing and testing technological bricks on a demonstrator named Foreign Object Damage (FOD) panel. It is representative of the chord of a fan blade at a specific height. It is mainly used to test the design of a fan blade before launching its manufacturing to avoid and manage any risk. In that sense, MORPHO will rely on the same strategy.

MORPHO proposes to embed printed and fiber-optical sensors in FOD panels, thus providing them with cognitive capabilities from the moment they are manufactured. The parallel development of digital/hybrid twin models will drastically improve the FOD Life Cycle Management. Throughout the project, demonstrators will be developed to analyse and validate the proposed methods and tools.

Leading edge composed of titanium (a)

Core body composed of 3D woven composite

FOD panel substructure (b)

700 mm

300 mm

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Figure 2. Project Overview

### 2.2.2. Work Packages

In this section the work packages are presented in a table. The table contains the WP number, title, and represents the interrelation among them. It was design using the MORPHO corporative colours and it aims to clarify in a simple way the interrelations between each WP.

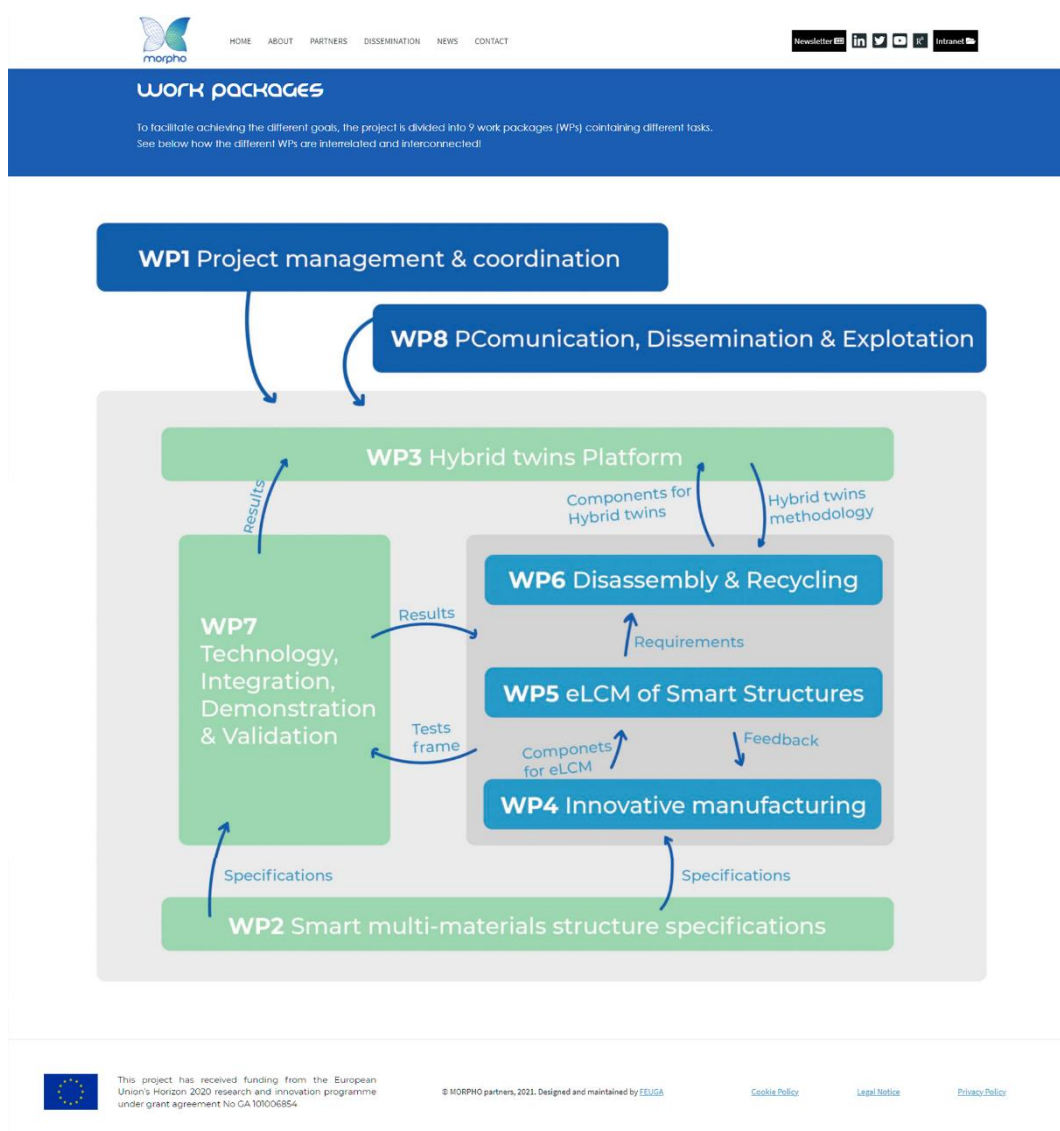


Figure 3. Work Packages

### 2.2.3. Objectives

As shown in Figure 4, this section of the website elaborates on the specific objectives of the H2020 project. An abstract image related to each topic was specifically designed to illustrate the objective in question.

**OBJECTIVES**

**DIGITAL INDUSTRIALISATION GOALS**

5 to 10% Increase in production yield

- Developing dedicated sensing technologies for Resin Transfer Moulding (RTM) manufacturing process
- Elaborating hybrid twins merging physics-based and data-driven models for the smart structure and its RTM manufacturing process
- Developing an innovative RTM process that integrates sensors technology connected with digital/hybrid twin approach
- Quantifying the operational performances of the smart fan blade by integrating its hybrid twin in a simulation tool dedicated to the design of highly complex systems such as aircraft engines.

**MAINTENANCE, REPAIR AND OVERHAUL (MRO) GOALS**

Reduction of 50% of Turn Around Time

- Developing probabilistic Structural Health Monitoring-data-driven methodologies for damage assessment as well as the estimation of the mean remaining useful life accompanied by uncertainty quantification
- Qualifying the use of embedded sensors (fiber Bragg grating -FBC- and printed sensors) for the assessment of life cycle of fan blades structures
- Enabling a new inspection strategy of fan blades based on automated Structural Health Monitoring technology.

**ECOLOGICAL AND RECYCLING GOALS**

Recovering 100% of Titanium and 100% of Carbon Fiber content

- Developing a new methodology that combine two innovative process, a laser-induced disassembly and a pyrolysis technology, for the optimal recycling of the fan blades after their end of service life. The challenge is to evaluate the mechanical properties of materials before and after disassembly to guide the resource recovering in the manufacturing process or recycling.

**QUALIFICATION/STANDARDS GOALS**

Roadmap for the adoption of standards for eLCM

- Propose guidelines and standards for the implementation of the innovative Resin Transfer Molding manufacturing of fan blades process.
- Propose guidelines and standards in the implementation of Structural Health Monitoring systems for aerofelis application.
- Pave the way for new standards of a non-mechanical disassembly process for titanium-composite structure

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Figure 4. Objectives

### 2.2.4. Expected Impact

Text describing the expected impact of the project MORPHO is provided in this section. It provides to the visitor an overview of the context of the project and the innovation level and added value. As in the Objectives page, each topic is illustrated in an abstract way to represent what the text is describing. This has a double intention, to make each topic more recognisable and to make the webpage more appealing and easy to assimilate.

## D8.3 – Website launching

The screenshot shows the 'EXPECTED IMPACT' section of the MORPHO website. At the top, there is a navigation menu with 'HOME', 'ABOUT', 'PARTNERS', 'DISSEMINATION', 'NEWS', and 'CONTACT'. To the right, there are links for 'Newsletter', social media icons (LinkedIn, Twitter, YouTube, Facebook), and 'Intranet'. The main content area is a dark blue box with five white icons and corresponding text blocks:

- Manufacturing next generation multifunctional and intelligent airframe and engine parts**
  - The main concept of MORPHO is to promote industrially the deployment of smart structures using on-board sensors and digital/hybrid twins approaches to provide aeronautical structures cognitive capabilities allowing them to manage and assess their entire life cycle.
  - From manufacturing optimization to monitoring of present and future health state during service till disassembling, MORPHO solution relies on a digitally printed and embedded sensor network to monitor and optimize the entire life cycle of an intelligent structure, namely a FOD panel representative of a smart fan blade. In order to reach this goal, the project will stretch the limits of several technologies and integrate them together.
- New manufacturing paradigm shift with enhanced ecological maintenance and recycling characteristics**
  - MORPHO consortium is aware of the importance of being environmentally friendly during all the life cycle management of the multifunctional fan blade. Indeed, aspect related to the process integration of sensing technology in composite structure such as coating, adhesive, circuit element will be managed in the sense of REACH compliance. Furthermore, disassembling and recycling of the developed sensors and materials devoted to the proof of concept will also be addressed with an emphasis on circular economy.
- New/updated technologies that will offer a competitive advantage of European MROs**
- Maintaining and extending European industrial leadership**
  - MORPHO has an ambition to apply for 5 patents covering the different area of the addressed eLCM: Innovative manufacturing, process monitoring, embedded sensor, structural health monitoring, recycling of hybrid materials, and LCM application to aerofolds.
- Pushing forward knowledge and innovation in the areas of the project**
  - The MORPHO consortium plans to publish more than 10 papers in scientific journals and around 20 presentations in conferences across the following scientific areas: innovative manufacturing, sensor technology, numerical simulation, bonded structures, hybrid twin, prognostics and health monitoring, structural health monitoring, based disassembly and recycling of multilaterals.

At the bottom of the page, there is a European Union logo and text: 'This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No GA/101006854'. To the right, there are links for '© MORPHO partners, 2021. Designed and maintained by FEUGA', 'Cookie Policy', 'Legal Notice', and 'Privacy Policy'.

Figure 5. Expected Impact

## 2.3. Partners

The “Partners” page has information on every company, association or institution that takes part on the MORPHO project. In an easy identifiable way, each sub-section holds a list of names and logos.

This page is split in the following sub-sections:

- Consortium
- Advisory Board

### 2.3.1. Consortium

A list of all MORPHO partners, with their country of origin and a hyperlink to the website of each partner institution, can be found in this section. They all appear on a grayscale until touched or hovered over with the mouse, when they show their original colours.

The screenshot displays the MORPHO Consortium website. At the top, there is a navigation bar with the MORPHO logo and links for HOME, ABOUT, PARTNERS, DISSEMINATION, NEWS, and CONTACT. Social media icons for Newsletter, LinkedIn, Twitter, YouTube, and Intranet are also present. Below the navigation bar is a blue header section with the word "CONSORTIUM" in white. Underneath, a paragraph describes MORPHO as a joint effort of European experts in smart manufacturing, sensor integration, structural health monitoring, recycling of aerospace structural parts, and SAFRAN (a major OEM) in the field of aeronautics and air transport, led by the Ecole Nationale Supérieure d'Arts et Métiers (ENSAM). It states that MORPHO brings together 10 partners from six European countries.

The main content area features a grid of 10 partner logos, each in a grayscale box. The partners are:

- ÉCOLE NATIONALE SUPÉRIEURE D'ARTS ET MÉTIERS (France)
- COMET TRAITEMENTS (Belgium)
- ESI GROUP HISPANIA (Spain)
- FISENS GMBH (Germany)
- FRAUNHOFER IFAM (Germany)
- FUNDACIÓN EMPRESA UNIVERSIDAD GALLEGA (Spain)
- UNIVERSITY OF PATRAS (Greece)
- SAFRAN (France)
- SYNTHESITES INNOVATIVE TECHNOLOGIESEPE (Greece)
- TECHNISCHE UNIVERSITEIT DELFT (Netherlands)

At the bottom of the page, there is a footer section with the European Union flag, a funding notice, copyright information, and links for Cookie Policy, Legal Notice, and Privacy Policy.

Figure 6. Consortium

### 2.3.2. Advisory Board

As in the section before, a list of every advisory board member is given with hyperlink to their official website. The original colours of each logo are hidden until touched or hovered over.



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## D8.3 – Website launching

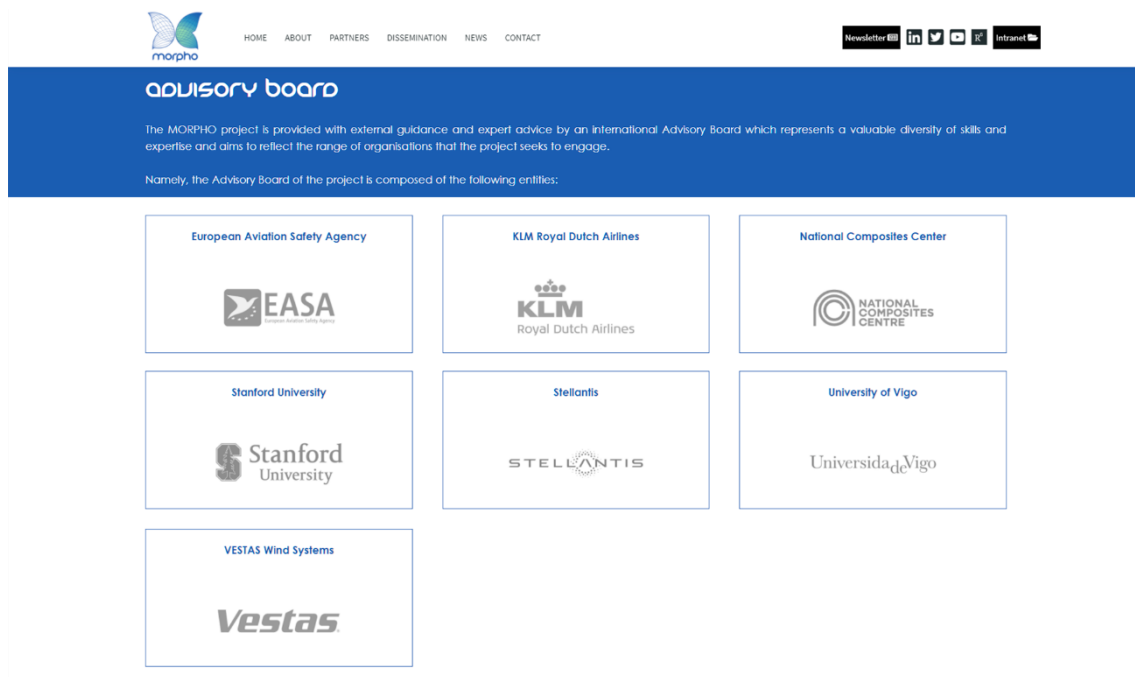


Figure 7. Advisory Board

## 2.4. Dissemination

The “Dissemination” page provides access to all the material produced on the purpose for the dissemination objectives set by the project and is targeted to Scientific Community, technicians, experts, designers, end users, potential customers/investors and other stakeholders.

In this section various types of documents (scientific articles, newsletters, reports, presentations, videos, relevant links, opinions and other resources), developed during the project, as well as project’s representative material (leaflets, brochures, etc.) will be stored.

This page will be constantly updated with the material as long as it is produced by the project, such as multi-media publications, newsletters, deliverables, scientific publications, etc.

The page is split in the following sub-sections:

- Deliverables
- Scientific Publications
- Media Appearances
- Newsletters
- Materials



### 2.4.1. Deliverables

A list of all MORPHO project deliverables, already generated and to be generated, is displayed in this section. All public deliverables will be accessible to download on PDF as soon as they are officially released by the Commission.



The screenshot shows the MORPHO project website's 'Deliverables' page. The page header includes the MORPHO logo, navigation links (HOME, ABOUT, PARTNERS, DISSEMINATION, NEWS, CONTACT), and social media icons (Newsletter, LinkedIn, Twitter, YouTube, Facebook, Intranet). The main content area has a blue background with the title 'DELIVERABLES' and a brief explanation: 'On this page, you will find all deliverables of the MORPHO project, sorted per work package one to nine. If the abstract of the deliverables is not yet set public, it means that the document has not yet been delivered and/or approved for publication. Public deliverables can be downloaded as soon as they have been officially released by the Commission.'

Del name	Dissemination Responsible	Interested?
Project quality and management plan	ENSAM	Consult the public abstract
Project Management & Knowledge Management Tools	ENSAM	Consult the public abstract
Data Management Plan (DMP)	FEUGA	Download a PDF version
Requirements and key performances indicators	SAFRAN	Consult the public abstract
Sensors network deployment strategy and maintenance procedures	IFAM	Consult the public abstract
Manufacturing procedure for reliable sensors integration	SAFRAN	Consult the public abstract
Specifications and interfaces for hybrid twin models	ESI	Consult the public abstract
Data management specifications	ENSAM	Consult the public abstract
Platform for sharing, storing, and processing data	ENSAM	Consult the public abstract
Digital twin of the smart fan blade with its sensors network	TUD	Consult the public abstract
Digital twin of the RTM manufacturing process	ENSAM	Consult the public abstract
Hybrid twins of the smart fan blade	ENSAM	Consult the public abstract
Smart fan blade performances evaluation	SAFRAN	Consult the public abstract
FOD panels without sensors for material characterisation	SAFRAN	Consult the public abstract
FOD panels equipped with sensors	IFAM	Consult the public abstract
Processes for on-board FBG and printed sensors integration	FISENS	Consult the public abstract
Off board sensors for RTM monitoring validation	SYN	Consult the public abstract
RTM optimization strategy based on integrated sensors	SYN	Consult the public abstract
Material characterization of the hybrid material FOD panels	UPAT	Consult the public abstract
Optimized test procedure and test bench	TUD	Consult the public abstract
Health management database	TUD	Download a PDF copy
Diagnostic and prognostic methodologies	UPAT	Consult the public abstract
Safety measures related to thermal treatment and Laser shock processes	ENSAM	Consult the public abstract
Disassembly process definition report	ENSAM	Consult the public abstract
Re-use or recycling routes guide report	ENSAM	Consult the public abstract
Demonstrator scenarios definition	SAFRAN	Consult the public abstract
Integration, Verification and Validation (IVV) plan	SAFRAN	Consult the public abstract
Quantification of MORPHO outcomes	ENSAM	Consult the public abstract
Industrial guidelines for adoption of smart structures and processes	IFAM	Consult the public abstract
Certification status of MORPHO technological bricks	SAFRAN	Consult the public abstract
MORPHO survey results from MRO and design office	SAFRAN	Consult the public abstract
Communication & Dissemination plan including the Book of Style	FEUGA	Download a PDF copy
Midterm report on Communication and Dissemination activities	FEUGA	Download a PDF copy
Web site launching	FEUGA	Download a PDF copy
Final report on Dissemination and Communication Activities	FEUGA	Download a PDF copy
Final PEDR (Plan for Exploitation and Dissemination of project Results)	SAFRAN	Consult the public abstract
EPQ - Requirement No. 1		Consult the public abstract

Figure 8. Deliverables



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## D8.3 – Website launching

### 2.4.2. Scientific Publications

The “Publications” page has the objective to provide the source of all the material as a result of the research activity of the project excluding confidential information. This page will be constantly updated with the material as long as it is produced by the project, such as formal documentation, technical publications, papers, etc.

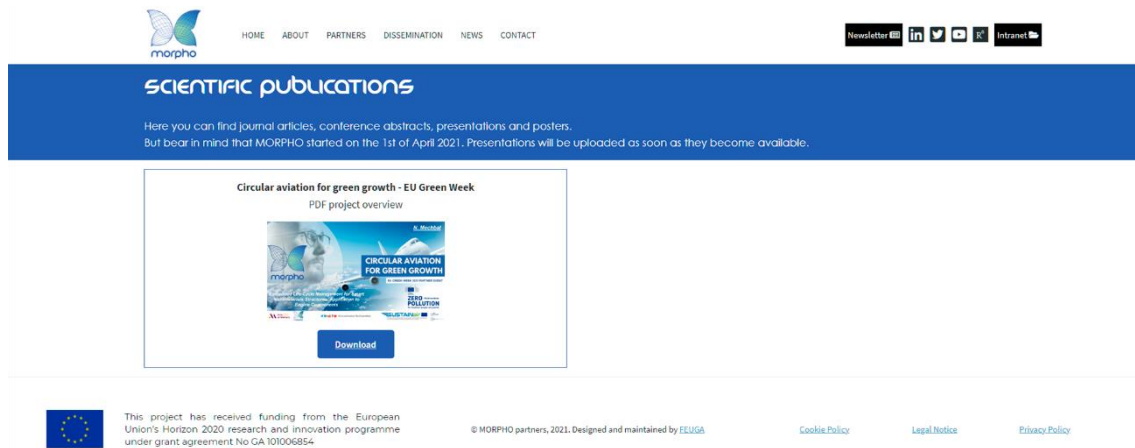


Figure 9. Scientific Publications

### 2.4.3. Media Appearances

As part of the communication efforts, the MORPHO projects aims to achieve a strong media presence. Every appearance on any media around the world will be collected on this page, organised and classified to be easily findable.

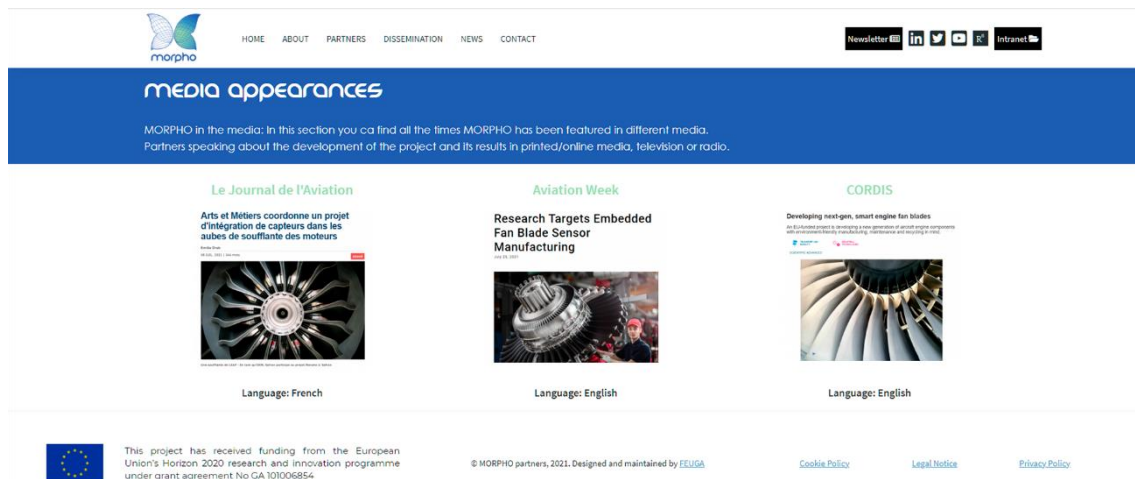


Figure 10. Media Appearances

### 2.4.4. Newsletters

An annual newsletter will be distributed between stakeholders and general public including achievements/news of the project that will redirect to the website. Newsletters will be uploaded as well on the website in this specific section. To attract new subscribers, the subscription form



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is displayed in this page as well as on the main menu.

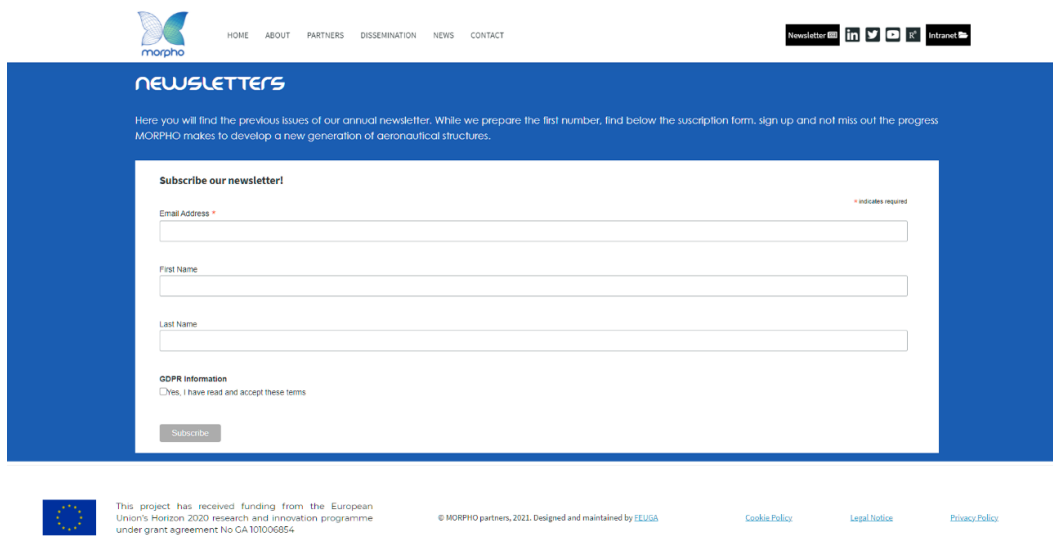


Figure 11. Newsletters

### 2.4.5. Materials

To be well represented on media appearances, conferences, etc. MORPHO has prepared two logo versions, easily downloadable, to guaranteed the quality of the images. This page will be updated with brochures, posters or any other publicity materials the project may find interesting to share.

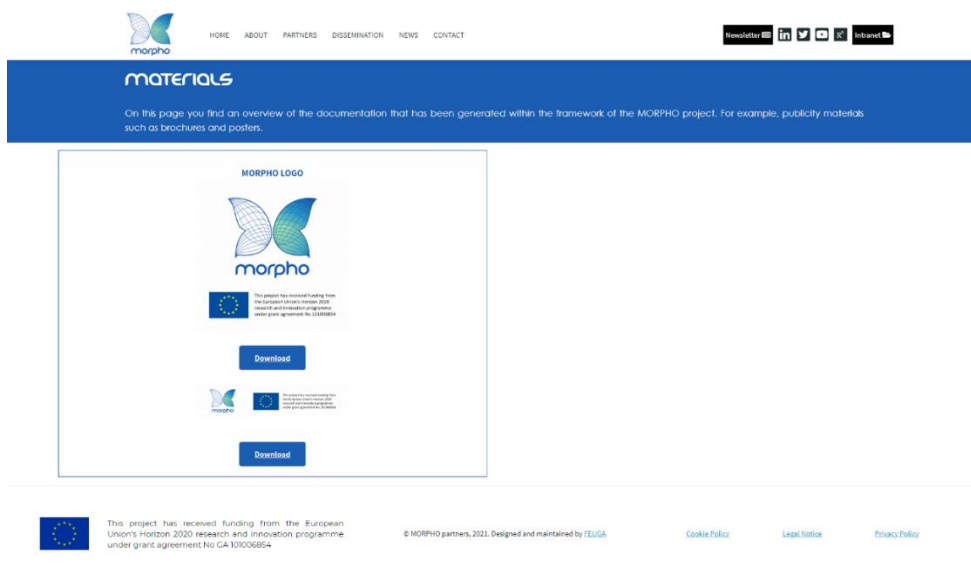


Figure 12. Materials



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## 2.5. News

The “News” page is intended to present the latest updates related to the activity of the Project in order to get a quick refresh on what happened on the recent period. On the side panel, a search feature is available to look for news, articles, posts. This page will be constantly updated with the latest material such as upcoming meetings, participations in events, dissemination actions, conferences, etc. Figure 13 gives a representation of the “News” page with the first events in which the project is participating, consortium meetings and press releases.

In order to keep the website attractive for external users, all partners are requested to report to FEUGA any potential news related to the project that could be added to this section.



Figure 13. News



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### 2.6. Contact

A contact form is available on the MORPHO website. It requires the name, email address, and a message. Once the message is sent, it arrives directly to the FEUGA’s communication team, who will be in charge of distributing the message to the appropriate recipient among the partners.

In a line with the website’s privacy policy, the email address of the visitor is required in order to send feedback.

**CONTACT**

**PROJECT COORDINATOR**  
Nazih Mechbal  
Ecole Nationale Supérieure d'Arts et Métiers | ENSAM  
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Rúa de Lope Gómez de Marzoa, s/n, 15705 Santiago de Compostela, A Coruña, Spain

Send us your doubts, requests or comments. We will try to answer you as soon as possible!

Fields marked with \* are required

Your Name \*

Your Email \*

Message \*

This form collects personal data and will save it in our database. Check out our privacy policy for the full story on how we protect and manage your submitted data!

Contact Us

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Figure 14. Contact

### 3. Measuring results

Visits to the website will be measured and evaluated with the use of statistics integrated with Google Analytics. This is the best tool for personalised views and graphs about type of users, geographical location, origin of web traffic, most visited sections, most demanded materials, etc.

Google Analytics give a wealth of information about MORPHO website performance metrics, but in a very simply put way. It shows us the following:

1. How much traffic is coming to the site.
2. Where the traffic is coming from.
3. What visitors are doing once they are on the site.

Analytics works by tracking ‘tags’, which are a small piece of JavaScript code that are installed on every page of the website to work properly. This data is then collated and shown in a ‘report’ page in the Google Analytics’ admin interface.

The website key performance indicators will be tracked and circulated to the consortium partners on a regular basis.



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