



Deliverable Report

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Project title: adaptive model-based Control for laser-assisted Fibre-reinforced tape winding

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Dissemination Level		
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)	

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1 Deliverable outline

1.1 Description of deliverable

In the deliverable for the creation of an ambliFibre Stakeholder Group the formation of this group will be outlined.

This group will contain organisations which will be prospective customers and end users for the materials and technologies developed in the project and so will be the first option for exploitation of the intellectual property outside the consortium. This deliverable is linked to task 9.3.

1.2 ambliFibre – Project overview

ambliFibre will develop and validate the first intelligent model-based controlled laser-assisted tape winding system for fibre-reinforced thermoplastic (FRP) components. This system will include optical non-contact monitoring and innovative Human-Machine-Interfaces, which are easily manageable for the worker. Based on thermal and optical models embedded into integral process simulation tools combined with novel machine and laser technologies, for the first time a tape winding system will be realised which is able not only to drastically reduce the occurring waste, but also predict potentially arising failure in order to reduce machine downtimes. Statistical reliability and maintenance models for detection of critical elements and definition of their reliability will also prevent sudden machine breakdowns and allow defining the most cost-efficient maintenance schedule.

Thus ambliFibre will be a major breakthrough for the continuous and discontinuous production of neuralgic tape winded tubular composite components, such as gas tanks for automotive application, pressure vessel housings for the desalination of sea water or composite ultra-deep-water risers which are all affected by rapidly changing product requirements concerning both, material and design.

With respect to changing and challenging environmental influences, quick adaptability, failure-free quality and safe operation over the complete life-cycle are mandatory. The successful application of the ambliFibre results will dramatically accelerate the replacement of metal components in these domains, reducing the carbon footprint thanks to the low weight and long life cycle of FRP components and provide new opportunities for European manufacturers in global, high-value multi-billion € markets.

1.3 Work Package 9 - Overview

Planning and coordinating throughout the project lifetime all activities related to impact, innovation management and possible exploitation of results.

- Producing the ambliFibre website, communication tools and materials
- Contacting and mobilising experts from different business and industry sectors (actually or potentially using diode laser-assisted tape-winding for manufacturing their components or products) to participate and contribute to ambliFibre workshops or events and formation of an Stakeholder Group out of the industrial Stakeholders for the ambliFibre technology
- Designing generic business plans
- Proactive Management of IP brought into or generated by the project

1.4 Task related to this report

Task 9.3: Set-up and management of an ambliFibre Stakeholder Group

Partners involved: FhG-IPT, MACH4

The project will form an ambliFibre Stakeholder Group (aSG) which will be made up of potential customers and additional marketers for the technologies and tools developed within the project. The aSG will provide a two-way discussion: participants can receive feedback on the developments and aSG members can receive information about the new technologies and give a commercial view on the project.

The aSG is made up of OEM (Original Equipment Manufacturer) organisations, Tier 1 suppliers and materials manufacturers, and interest has already been received from major organisations from aerospace and wind energy. It will therefore contain organisations which will be prospective customers and end users for the materials and technologies developed in the project and so will be the first option for exploitation of the intellectual property outside the consortium.

2 Description of actions and work

As a research project that is expected to have an impact on the scientific and industrial community within the European Union, the members of the ambliFibre consortium expend great effort to ensure a guided and sustainable impact and innovation management including dissemination and exploitation activities. The planning and implementation of these activities commenced at the beginning of the project and will continue beyond the project duration.

Besides materials and tools for steering the dissemination and exploitation efforts within the ambliFibre project (described in Deliverable 9.2), the ambliFibre Stakeholder Group (aSG) made up of industrial companies and organisations takes an important part in giving external feedback on intermediate results during the project, thereby giving early input to guide the exploitation of the developments within ambliFibre.

2.1 Purpose of the ambliFibre Stakeholder Group (aSG)

The main purpose of the aSG is to enable a discussion between the partners of the ambliFibre consortium and industrial stakeholders which is beneficial for both sides: Members of the aSG are expected to provide feedback on the ongoing developments of the ambliFibre project from a commercial point of view and possibly compare them to other emerging technologies, while they receive first-hand information and insights on the ambliFibre technologies and the main (non-confidential) project outputs. This discussion is expected to go on as long as the project progresses.

The aSG is made up of industrial companies and organisations from different industry sectors and from different parts of the supply chain: OEM (Original Equipment Manufacturer) companies, Tier 1 suppliers and material manufacturers are all included in the aSG, which comprises industries like automotive, oil and gas, wind energy, engineering and aerospace.

At the end of the project the members of the aSG pose as the first option for the exploitation of the intellectual property developed within ambliFibre outside the consortium. Therefore they play an important part in establishing the new technologies in the market gaining the interest of other potential customers and end-users.

2.2 Set-up and formation

The set-up of the ambliFibre Stakeholder Group (aSG) began before the official beginning of the project. Several companies were contacted in advance to present the objectives and structure of the ambliFibre project. In this early stage, three companies already expressed their interest by signing letters of intent stating that they will join the aSG and the scheduled discussions and meetings during the runtime of the project.

During the first 12 months of the project these companies were joined by several other suitable and interested customers and end-users which were individually contacted by project partners through existing contacts or dissemination activities. These companies have shown a vested interest in the technologies developed within ambliFibre. They are either concerned with products manufactured by the laser-assisted tape winding process or contributing applications, which will be included in the ambliFibre tape winding system but can also be used and exploited as stand-alone technology. New members of the aSG are appointed by an invitation of the partner who initialised the contact and are included in official communication channels described below by the project coordinator.

To support partners of the ambliFibre consortium in gathering the necessary information from their partners to form the aSG a contact list was created and distributed. This list contains the relevant contact information of the involved company including the addressed product and an employee who serves as primary contact for ambliFibre purposes. The contact list is updated by the project coordinator.

New members of the ambliFibre Stakeholder Group (aSG) are informed about the project objectives, expected results and current status by forwarding the latest information material (including brochure and poster) to the contact person and suggesting them to visit the ambliFibre website.

The formation of the aSG is planned to continue as long as the project progresses. All partners are encouraged to propose a membership in the Stakeholder Group during all their dissemination activities and whenever they acquire industrial contacts displaying an interest in the ambliFibre objectives.

2.3 Management and involvement in project activities

Due to the geographical location of the members of the ambliFibre Stakeholder Group (aSG) which are currently based in Italy, France and Germany, a continuous interactive online communication is expected to guarantee increased attendance and participation in comparison to regular meetings. Therefore the public career networking website LinkedIn has been utilised to create an ambliFibre group and invite all members of the consortium and the aSG. This group is meant to encourage regular communication between partners and stakeholders and give periodic updates on the project developments. Stakeholder Group members are encouraged to promote active discussions and raise topics of interest. For this purpose all members of the LinkedIn-Group can ask open questions and pose opinion polls addressing all ambliFibre partners. The LinkedIn-Group is accessible by the following link: <https://www.linkedin.com/groups/8561628>.

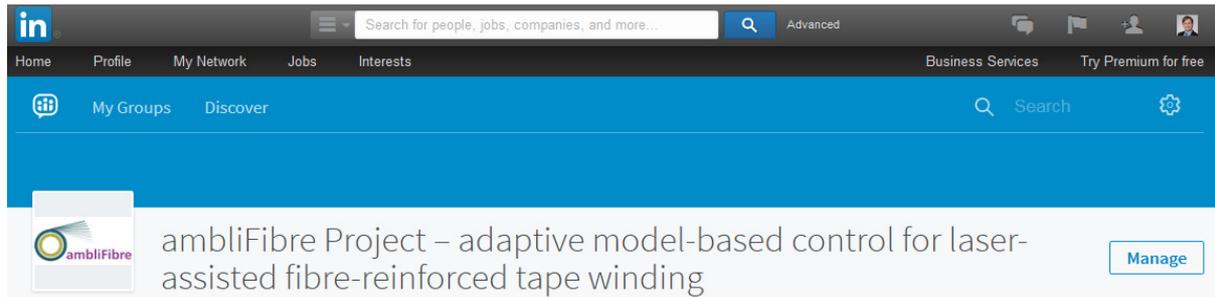


Figure 1: Screenshot of ambliFibre LinkedIn-Group

Additional information is provided by the project website and by dissemination materials. The project partner Mach4 Lab Srl will conduct a survey among the Stakeholders to receive background information about particular interests of the individual companies. These will serve as input to organise and structure several exploitation workshops and events, to which the members of the aSG will be invited. These events will include presentations by key partners which subsequent Q&A-session and roundtable discussions. Their aim is to maximise the impact of the aSG on the developments and exploitation of the ambliFibre project and increase the overall impact of the project's results.

As mentioned above, the ambliFibre Stakeholder Group (aSG) is designated to naturally grow throughout the project lifetime by periodic invitations of appropriate new external parties and groups by partners of the ambliFibre consortium.

3 Conclusion of Deliverable Output

Deliverable 9.4 gave an overview of the purpose, set-up and continued management of the ambliFibre Stakeholder Group (aSG). It will take an important part in the dissemination and exploitation activities of the ambliFibre project giving additional insight into the needs and requirements of industrial partners.

By delivering these results an essential foundation for the successful dissemination and exploitation of the ambliFibre project results has been set. Therefore the prospect for the impact of the project has been improved.

3.1 Review against Task 9.3 statement

The work reported within this deliverable concurs with the statements of task 9.3 within the Description of Work. A Stakeholder Group has been created including organisations from different fields of industry posing as prospective customers and end users. A plan to involve those companies during the project runtime to gain additional commercial views on the project has been laid out.

3.2 Review against WP9 objectives

The WP9 objective »Contacting and mobilising experts from different business and industry sectors (actually or potentially using diode laser-assisted tape-winding for manufacturing their components or products) to participate and contribute to ambliFibre workshops or events and formation of an Stakeholder Group out of the industrial Stakeholders for the ambliFibre technology« which is subject to the present deliverable could be reached by the work described within this deliverable.