



FibreMap 608768

Automatic Mapping of Fibre Orientation for Draping of Carbon Fibre Parts

**SEVENTH FRAMEWORK PROGRAMME
NMP Priority**

Deliverable D8.1: "Project Web Site"

Due date of deliverable: 2013-10-31
Actual submission date: 2013-10-31

Start date of project: 1st September 2013

Duration: 36 months

Coordinator:
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Profactor

Revision 1

Lead Beneficiary: Profactor
Contributions by: -

| Project co-funded by the European Commission within the 7 th Framework Programme | | |
|---|---|---|
| Dissemination Level | | |
| PU | Public | X |
| 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. The internet presence of FibreMap

This document provides information about the FibreMap project web page and gives an overview of function and intended use of the single page elements. The project's web page has been launched at www.fibremap.eu in September 2013. The web site is hosted and administrated by Profactor as part of their dissemination activities. The internet presence purposes two main reasons. First, present the project aims and the results during the project to a wider public. And second, in order to share information and documents amongst the project partners.

The web site itself is split into a public and restricted section. The public section contains:

- Project: general information about the main project topics and tasks
- News & Events: information about public events and news
- Public Material: public materials that has been generated by the project partners concerning the project topics
- Participants: information and links to the project partners
- Contact: contact information of the coordinator and imprint information
- Imprint

For the restricted section a password is needed which is known by the project partners and can be applied by the project management. The restricted section consists of sub-menu entries under the top-level menu entry "Login":

- Meetings: information of past and forthcoming project meetings
- Deliverables & Reports: deliverables and management reports
- Admin Docs & Forms: administrative documents and forms
- Publications: planned and published publications
- Contacts: detailed contact information about project participants

2. Public content

The project page starts with a short abstract of the project and some general information concerning funding and project duration (Fig. 1). The header shows, besides the project name and title the FibreMap Logo which will be used for all documents and presentations concerning the project. The sidebar on the left contains the menu where all sub-items in top-level section "Login" are private (password protected) and accessible for project partners only.

Wednesday, 9 of October of 2013

FibreMap

Automatic Mapping of Fibre Orientation of Carbon Fibre Parts

Menu

- Project
- News & Events
- Public Material
- Participants
- Contact
- Imprint
- Login
 - Meetings
 - KickOff Meeting Steyr
 - TelCo 001
 - Admin Docs & Forms
 - Deliverables & Reports
 - Publications

Project

Edit Print

FibreMap - Automatic Mapping of Fibre Orientation for Draping of Carbon Fibre Parts This project aims at the development of an automatic quality control and feedback mechanism to improve draping of carbon fibres on complex parts. There is a strong need in the automotive industry for automatic systems that perform quality control and improve draping processes in order to allow high production volumes. The technology that is being developed in the project will include a new sensor system for robust detection of fibre orientation combined with a robotic system to scan complex parts. This is based on a new technology that uses reflection models of carbon fibre to solve the problems encountered with earlier vision-based approaches. The data coming from the inspection system will be fed into draping simulation to improve the accuracy of the processes. Draping is the process of placing woven carbon material on typically complex 3D parts (preforms) with the goal of having the fibres oriented along specific directions predicted by finite element calculations. This is done to maximize the strength-to-weight ratio of the part.

There is a strong trend in the automotive industry towards lightweight parts to increase fuel efficiency, also considering the needs of electrical vehicles. Setting up the draping process for a complex part takes up to 50 preforms for trial-and-error improvements. Current production processes are thus not yet adequate to cover the expected volumes of several 100.000 parts per year. The project aims at shortening process development times by 90% and allowing automatic 100% quality control of fibre orientation. The industry-led consortium consists of European key partners in draping simulation, manufacturing of carbon parts for the automotive industry, sensor developers and robotic experts. It is complemented by a group of European car manufacturers that are linked to the project as associated partners. The project is funded by the European Commission in FP7 ICT under Grant No. 284607. Project duration: 09/2013 – 08/2016

SEVENTH FRAMEWORK PROGRAMME

FibreMap ↑

Figure 1: FibreMap home page with a short description of the project

2.1 News & Events

This site (Fig. 2) provides information about past and forthcoming events. This includes all technical and general meetings of the project partners and important events where an essential part of the consortium participates, such as conferences and trade fairs with substantial contributions by the project partners. The “News & Events” section on this page contains short information about important results in chronological order, and might also include videos, pictures, documents, links to related web-sites and other

promotional material. This side will be updated as soon as new information on meetings and events are available.

| News & Events | | | Edit | Print |
|---------------------|---------------------------------|------------------------|------|-------|
| Date | Event | Location | | |
| 2013 09 10 – 11 | KickOff Meeting | Profactor, Steyr (AUT) | | |
| 2013 09 30 | TelCo #001 | Telephone Conference | | |
| 2013 10 21 – 05 | TelCo #002 | Telephone Conference | | |
| 2014 02 04 – 05 | M6 Meeting | INSA Lyon (FRA) | | |

Figure 2: The News & Events section

2.2 Public Material

This site (Fig. 3) contains all available project materials that have been published and are allowed to be shown to a wider public. The publication will either be made available as download (PDF-file) or as link. This page will be updated as soon as new public material is available and accepted by all project partners.

| Public Material | | Edit | Print |
|-----------------|--|------|-------|
| Date | Publication | | |
| 17.10.2013 | Profactor: Project presentation Composites Congress, Materialica, Munich | | |

Figure 3: The Public Material section

2.3 Participants

A link to each partner's website and a short description of each partner is available in the section "Participants".

| Participants | | Edit | Print |
|---|---|------|-------|
|  | <p>PROFACTOR GmbH (Austria) is an Austrian research company on developing new methods for integrated production technologies. It has an annual turnover of about 7 Mio €. PROFACTOR GmbH is the executive organisation of the VPTÖ, a non-profit association supported by leading companies (BMW, Siemens, MAN, MIBA etc.). Approx. 400 companies are partnering with PROFACTOR. About 80 scientists of various disciplines conduct research to improve the competitiveness of the production industry and to strengthen mainly the Austrian industrial region. PROFACTOR GmbH is a leading member in several European Initiatives, e.g. the European Technology Platform MINAM (Micro and Nano Manufacturing) and involved in the ETP Manufuture and Member of the EFFRA Association.</p> | | |

Figure 4: First entry in participants section

2.4 Contact

This site contains the full contact information of the project coordinator and the project management. It is intended for any inquiries by interested parties.

2.5 Imprint

This site provides the legal information of the project web site.

3. Restricted content

The section at the sidebar “Menu Member” contains the non-public area and is just accessible by password (Fig. 4). This section serves mainly as an internal information sharing and communication platform for the project partners.

The password is the same for all project partners and can only be changed by the coordinator. The password has to be changed whenever a partner drops out of the project or if project members change to positions at different organisations that are not members of the consortium.



Figure 5: FibreMap Restricted section: login page

3.1 Meetings

This restricted site provides detailed information about past and forthcoming project meetings. This contains information before the meeting about agenda, travel and accommodation and afterwards sums up all information, materials and decisions of the respective meeting like meeting minutes, partner presentations and ToDos.

3.2 Admin Docs & Forms

This restricted site holds the main contracts and agreement of the project. For internal and external reporting several templates are provided for downloading.

3.3 Deliverables & Reports

This restricted site holds the chronologic list of all deliverables and contractually agreed reports throughout the entire project term. As the project proceeds the single entries in this list will be replaced by links to the deliverables or reports. The intention of this page is on the one hand to provide a rough guideline for all partners about the main results to be achieved in the project and on the other hand to serve as a documentation of the project's progress. At least two weeks before submitting a deliverable or report to the EU the draft version will be sent to all project partners.

3.4 Publications

This restricted site serves the purpose of sharing publications that are planned in the project. In accordance with the consortium agreement partners are required to send publications to the coordinator 45 days before they become publicly available (which not necessarily coincides with the date by which they are submitted to e.g. a review process). The coordinator will then make this publication available on this part of the web site and all partners will be given 30 days to provide feedback and put forward any objections.