H2020-ICT-2014-1
Smart System Integration

MEDILIGHT

Miniaturized smart system for light stimulation and monitoring of wound healing

Starting date of the project: 01/02/2015
Duration: 36 months

= Deliverable: D7.2 =

Webpage of the project

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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)	

AUTHOR

Author	Institution	Contact (e-mail, phone)
Anežka Palková	AMI	palkova@amires.eu

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Project Manager	Anežka Palková	29/05/2015
Coordinator	Dionysios Manessis	28/05/2015

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Point of Contact	Name: Anežka Palková Partner: AMI Address: Evropská 115, Prague 6, 160 00, Czech Republic Phone: +420 732 707 963 E-mail: palkova@amires.eu
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DISTRIBUTION LIST

Date	Issue	Recipients
29/05/2015		All partners via FTP server, PO, available on the project website

Executive Summary

MEDILIGHT project website http://www.medilight-project.eu/ has been set up in order to increase public awareness of MEDILIGHT project and research progress in light therapy in wound healing and miniaturized smart systems field and to disseminate project's results. Provisional webpage with basic information on the project has been operational already since February 2015 till the release of the final version of the website.

The whole content of the webpage is public except for the Partners area. The website will be actively maintained during the whole course of the project. At the footnote of the website an acknowledgment of EU funding is placed: **This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no. 644267, project MEDILIGHT**.

Figure 1 MEDILIGHT home page screenshot

Miniaturized smart system for light stimulation and monitoring of wound healing

Call: H2020-ICT-2014-1
Topic: ICT 2 – 2014: Smart System Integration
Type of action: Research & Innovation Action
Duration of the project: 36 months

Abstract:

Chronic wounds represent a significant burden to patients, health care professionals, and health care systems, affecting over 40 million patients and creating costs of approximately 40 billion € annually. Goal of the project is the fabrication of a medical device for professional wound care. The device will use recently proven therapeutic effects of visible light to enhance the self-healing process and monitor the status and history of the wound during therapy. Light exposure in the red part of the spectrum (620-750nm) induces growth of keratinocytes and fibroblasts in deeper layers of the skin. The blue part of the spectrum (450–495nm) is known to have antibacterial effects predominantly at the surface layers of the skin. In order to be compliant with hygiene requirements the system will consist of two parts: 1. a disposable wound dressing with embedded optical waveguides and integrated sensors for the delivery of light and monitoring (temperature and blood oxygen) at the wound. 2. a soft and compliant electronic module for multiple use containing LEDs, a photodiode, a controller, analog data acquisition, a rechargeable battery, and a data transmission unit. Both parts of the device will be interconnected by a mechanically robust plug, enabling a low loss coupling of light into the waveguide structures and electrical interconnection to the sensors. The status of the wound will be monitored with temporal and low level spatial resolution. The electronic module will be optimized for functionality and user comfort, combining leading edge heterogeneous integration technologies (PCB embedding) and stretchable electronics approaches. The detailed effects of light-exposure schemes will be explored and backed by in-vitro and in-vivo animal studies. Results will be used to develop smart algorithms and implement it into respective programs and feedback loops of the device.

Partners:

1	Technische Universitaet Berlin	TUB	DE
2	Laboratoires URGO	URGO	FR
3	Ruprecht-Karls-Universitaet Heidelberg	UHEI	DE
4	Centre Suisse d'Electronique et de Microtechnique SA	CSEM	CH
5	SignalGeneriX Ltd	SG	CYP
6	Microsemi Semiconductor Limited	MSL	UK
7	AMIRES s.r.o.	AMI	CZ

Contacts:

Coordinator: Dionysios Manessis, TUB, dionysios.manessis@tu-berlin.de
Project Manager: Aneszka Palkova, AMIRES, palkova@amires.eu

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 644267, project MEDILIGHT.

Figure 2 MEDILIGHT provisional home page screenshot

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1. Introduction

Deliverable 7.2 *Webpage of the project* is part of the task 7.1 *Dissemination strategy and activity*. The objective of this task is to assure that the results of the project will be disseminated to the European research and industrial community, will target all important stakeholders in use of light therapy in wound healing and miniaturized smart systems and will assure an on-going communication between the stakeholders on one side and partners of the project on the other.

The task further describes: A comprehensive dedicated website for the project updated on a regular basis will be created. MEDILIGHT website will be established at the beginning of the project and will be set up both for consortium members' and public access. The website will be actively maintained during the project period and will be used also as a management tool via a secured private area. Access will be provided to all consortium partners but with different access and security levels for public and confidential data.

The website is planned to be launched the last week of May or on 1 June 2015 based on project partners' approval regarding the confidentiality matters. First functionalities will be presented to project partners during monthly PSC teleconference on 3 June 2015.

2. MEDILIGHT website – public content

The website has been created in Open Source software called WordPress. WordPress started as a blogging system, but has evolved to be used as full content management system, that is completely customizable and can be used for almost anything within the field of web design. It allows fast and reliable customization and user-friendly back-office environment which is a key for the website updates and file uploads.

The content of individual pages is divided in 3 parts (frames); heading, central area and right column. The heading shows project's logo and full name on the right side and contains a banner field on the left side with headlines related to the project theme accompanied by graphics. The heading's visualisation remains constant on all pages. The main content is to be found in the central area. The right column contains latest news and events related to the project. A different layout is set for the home page where right column is missing and basic information on the project is in the central area. Below is a picture of simplified MEDILIGHT dressing with an animation depicting the use of blue and red light and its effects on wound healing. Next to the picture three latest news and events related to the project are shown. At the bottom a rolling banner presenting logos of all partners as well as the EU flag are placed. The website contains also a search tool. The main navigation menu is placed at the top of the central area and includes the following sections (with their respective subsections): Home, Project, Consortium, News & Events, Publications & Media, Partners area, FAQs and Contacts. These sections are described in more detail in subchapters below except for Partners area which is the content of Chapter 3.

2.1. Project

This section contains general information and description of the MEDILIGHT project as well as deliverables that are publicly available. It is divided into three subsections – **Project facts, Work packages,** and **Public deliverables**.

2.1.1. Project facts

Project facts subsection summarizes in a table all important facts about the MEDILIGHT project, including the full project title, project acronym, grant agreement number, starting date and end date of the project, duration, project costs, project funding, type of action, funding programme, call identifier, topic (with a link to call/topic details on the Participant Portal website), Project Officer name, free keywords and project's abstract.

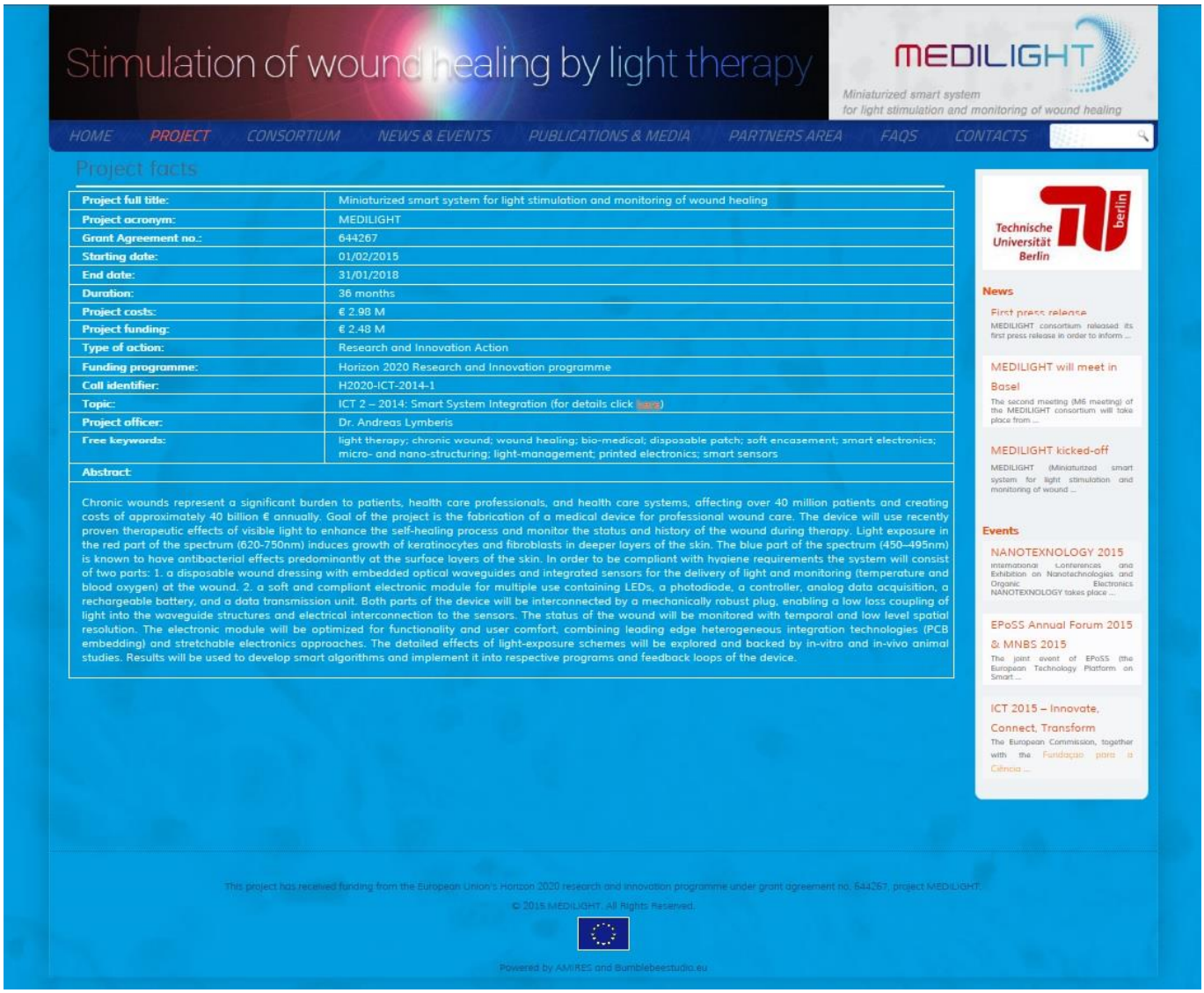

Figure 3 Project facts subsection screenshot

2.1.2. Work packages

The project's work plan is divided into eight Work Packages (WPs), each targeting specific objectives, tasks and expected results. This subsection shortly describes all of them indicating WP name, WP leader and WP main objectives. The details of each WP open after clicking on the respective WP.

Figure 4 Work packages subsection screenshot

2.1.3. Public deliverables

This subsection shows the list of all public deliverables of the MEDILIGHT project. As soon as the deliverables are ready they will be available for download in the .pdf format file in this section.

Figure 5 Public deliverables subsection screenshot

2.2. Consortium

MEDILIGHT consortium consists of 7 partners from 6 countries with complementary background know-how in order to achieve challenging goals of the project. This section describes the members of the project consortium. For each partner the name, country of origin, institution webpage, primary contact, key staff and also the WPs the partner is involved in are mentioned. Short descriptions of individual partners´ activities are also part of the description.

There is a separate subsection focused on the External Advisory Board (**EAB)**.

Figure 6 Consortium section screenshot

2.2.1. EAB

This subsection is focused on the External Advisory Board (EAB), its role and members.

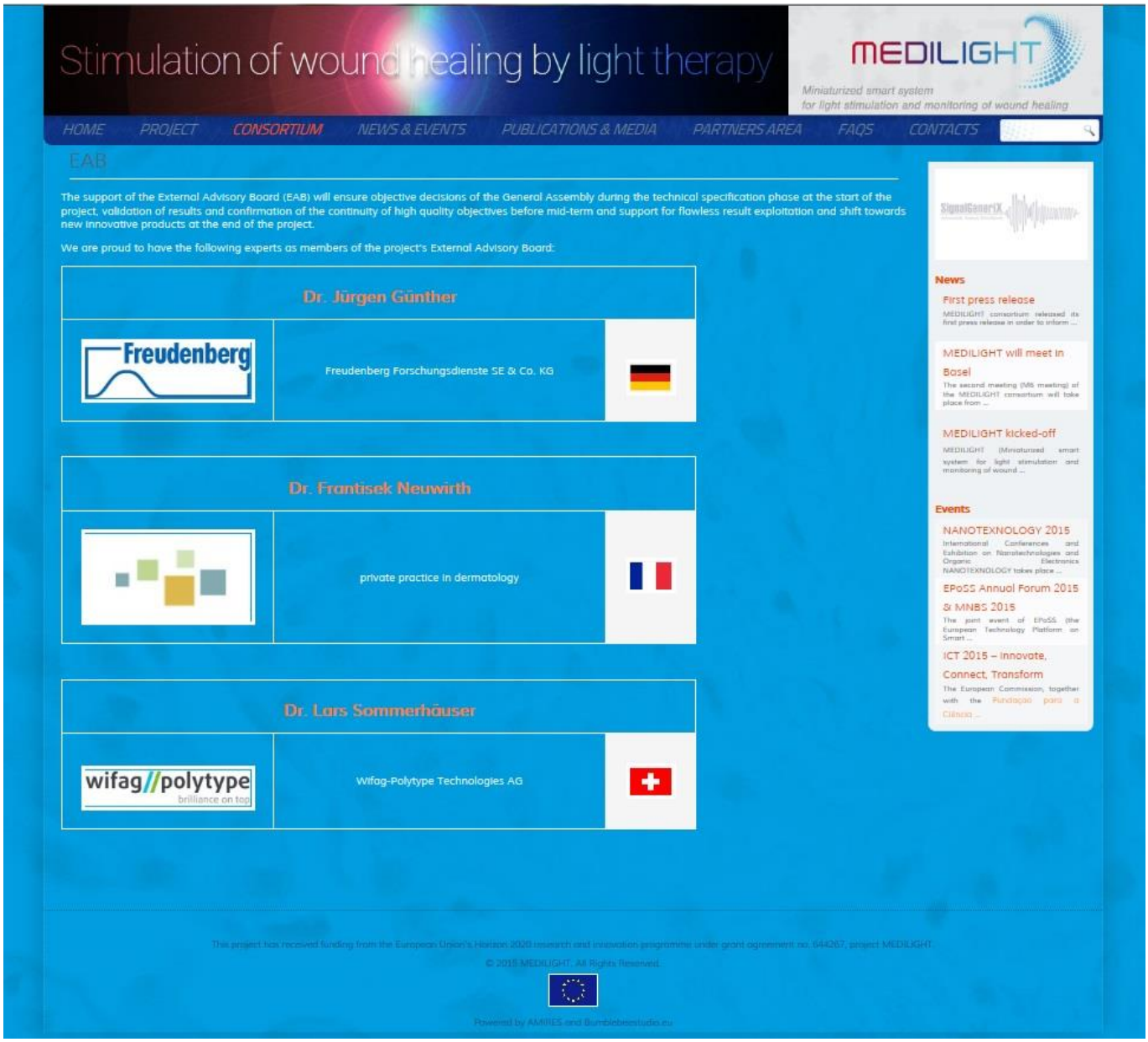

Figure 7 External Advisory Board subsection screenshot

2.3. News & Events

This section contains news and events related to the project and its focus. It is divided into two subsections: **News**, and **Events**. Three newest news and events are shown on the home page where links to these subsections can be used.

2.3.1. News

Figure 8 News subsection screenshot

2.3.2. Events

Figure 9 Events subsection screenshot

2.4. Publications & Media

The goal of the Publications & Media section is to present MEDILIGHT latest achievements and outputs as well as to support the public awareness of the project. Subsections will be offering a list of **scientific publications** and MEDILIGHT **press releases**. In subsection **Download**, project's presentations, dissemination materials (flyers, logo), conference materials etc. will be available for public download. Subsection **Gallery** will offer pictures from project's meetings, workshops, conferences as well as pictures related to project activities. **Useful links and documents** subsection provides a list of links that are related to the project and its focus as well as documents and articles on scientific and medical rational of LED photo therapy.

Figure 10 Download subsection screenshot

2.5. FAQs

The Frequently Asked Questions (FAQs) section is developed in order to answer possible questions related to MEDILIGHT project and its goals and make the replies publicly available on the website. Therefore Post a comment window is at disposal in this section and a list of answers provided by the consortium members based on their expertise will appear there as well.

Figure 11 FAQs section screenshot

2.6. Contacts

Contacts section offers direct contacts to MEDILIGHT Project Coordinator and Project Manager.

Figure 12 Contacts section screenshot

3. MEDILIGHT website – content for project partners

A dedicated secured private area (Partners area) of the website serves as a management tool. Access will be provided to all consortium partners but with different access and security levels for public and confidential data. The structure of the Partners area would be as follows: a central part and a right column with a user's profile administration widget where password could be changed.

After login in the Partners area (each partner's organisation would have its individual Username and Password), basic information on how to access the Partners area and information on files repository tool would show up in a central part. As project's primary repository tool for sharing documents and files, FTP server provided by AMIRES is being used.

Based on the need of the consortium other information can be added to this section.

4. Maintenance of the MEDILIGHT website

Website of the MEDILIGHT project will be actively maintained and updated on a regular basis during the project life span. Especially the section Publications & Media will be further reinforced as well as News and Events related to the project and its focus.

Beyond the periodic updates and publication of results two activities need to run in parallel. First, the constant security check and control is needed to protect all sensitive data uploaded on server of Czech provider Active24 (http://www.active24.cz). This will be assured by generation of more secure login details and by continuous adaptation of WP plugins and add-ons in order to avoid any sensitive data leakage. Special attention has to be given to random search engines crawlers, which download any accessible document and keep it for long time in their cache system (even already erased documents). This activity will last till the end of the project and beyond its duration. Second, more optimization of the website will assure its positioning among first search results for relevant keywords.

5. Conclusions

MEDILIGHT project website www.medilight-project.eu meets the requirements which were set for the website in the respective task 7.1 Dissemination strategy and activity. The project website has been set up in order to increase public awareness of MEDILIGHT project and research progress in the field of light therapy in wound healing and miniaturized smart systems and to disseminate project's results. Basic information on the project can be found on the web page as well as public deliverables and project's outcomes and publications. It will serve both public and the consortium partners. Visitors of the web page can easily ask consortium questions using a Post a comment window. Direct contacts to Project Coordinator and Project Manager are to be found there, too.

6. Degree of Progress

The development of the project's website is to 100% fulfilled. The maintenance of the website will be carried out during the whole course of the project.

7. Dissemination Level

The Deliverable D7.2 is public and therefore it will be available to download on the project's website and on demand.