FP7-317894
Project co-funded by the European Commission under the Information and Communication Technologies (ICT) 7th Framework Programme

SWAN-iCare
Project Web Portal

Document Identifier: **D9.1**
Due Date: 01/10/2012
Delivery Date: 01/10/2012
Classification: Public
Editors: Andreas RAPTOPOULOS
Document Version: 1.0

**Smart wearable and autonomous negative pressure device for wound monitoring and therapy**

**Contract Start Date:** 1 September 2012  **Contract Duration:** 48 months

**Project Partners:**
EXODUS S.A. (GR, Coordinator), CEA (FR), CSEM(CH), UNIPI-CHE (IT), UNIPI-WHR (IT), CHURG (FR), EUROR (IT), HBIO (IT), EWMA(DK), ICCS (GR), S&N (UK), SWINN (CH)
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### Revision History

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<td>01/10/2012</td>
<td>Report completed based on the created by EXODUS <a href="http://www.swan-icare.eu">www.swan-icare.eu</a> website</td>
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1 Introduction

SWAN-iCare is an ambitious project which will provide a major leap forward in the management of wound healing, mainly diabetic foot ulcers (DFU) and venous leg ulcers (VLU) treatment. It aims at a next generation integrated autonomous solution for monitoring and personalized therapy of the foot and leg ulcers. Foot and leg ulcers are caused mainly by diabetes and vascular problems but are also due to a variety of diseases such as kidney disease, congestive heart failure, high blood pressure, inflammatory bowel disease and others.

The project relies on Information and Communication Technologies (ICT) enabled on body wearable, negative pressure device and allows for:

- accurate multi-parametric monitoring of the wound via non-invasive integrated micro-sensors measuring the condition of the wound and early identification of infection.
- adapted remote personalised two level therapy via non-invasive micro-actuators as a supplement to the negative pressure wound therapy

The data collection analysed by the clinic personnel is the basis for the decision and remote control of the therapy (by the clinical doctor) and future statistical analysis of multiple patients’ wound management and treatment, thus advancing the wound management science and practice. This closed-loop approach offered by SWAN-iCare project is expected to provide improved levels of care. This in turn will help support the patient’s health condition and potentially lowers the costs and need of hospitalisation which in turn will provide a positive impact on the patient and the health provider.

SWAN-iCARE novel idea focuses on the provision of pioneering two levels of treatment at home:

- A first level treatment based on a negative pressure device, which provides a moist environment, reduces bacterial colonization, localized oedema and dead space and promotes localized blood flow, granulation and epithelialization.
- A second level treatment based on a smart interface associated to the cartridge which will be at the direct contact of the wound in order to initiate, if necessary, the integrated micro-actuators.

The aim of deliverable WP9.1 is to ensure that as a consortium we have a common message place to store and record critical data relating the successful delivery of the SWAN-iCare project, the WEB Portal will hold typically but not limited to the following types of information:

- Useful information in the project
- Project’s progress and up-to-date information
- Project’s structures
- Public deliverables
- Dissemination material
2 Web Site Design and implementation

The SWAN-iCare website was designed using e-Centric which is a CMS platform developed by EXODUS, and is hosted in a web server owned by EXODUS. Accessibility will be obtained through the URL: http://www.swan-icare.eu/. The website is based on a simple design, which is fast loading, browser compatible (Internet Explorer, Mozilla Firefox, Opera, Google chrome, etc) and focuses on the content. All pages provide a header with the SWAN-iCare logo at the top of the web page while additional links to the European commission webpage and the Seventh Framework Programme are also included in the home page.

The website is separated into ten sections. Two key menus, one horizontal and one vertical are positioned in the web site, consisting of six and four key buttons, respectively. The vertical key formation is located at the left side of the website page while the horizontal one is located at the top left side of the webpage. Both vertical and horizontal buttons are always available for access, during user’s browsing through the entire website.

2.1 “About the Project” Area

“About the Project” area summarizes the basic contract details of this project. In particular within this page the provided information is the following:

- Project Full Title
- Call Identifier
- Work program objectives
- Grant agreement number
• Total budget
• Funding
• Start Date
• Duration
• Coordinator ID

In addition a list of hyperlinks to more detailed information concerning the project is provided. That additional information consists of the SWAN iCare objectives, and the expected impact.

2.2 “Structure” Area

This section contains one sub-section. This concerns the work packages of the SWAN iCare project, where more detailed information is given.
### 2.3 “Consortium” Area

The “Consortium” section contains a list with all the members of the consortium. For more information about each consortium member, a hyperlink to the beneficiary’s official website is applied by pressing the corresponding partner’s logo.
Figure 4: "Consortium" Area
2.4 “News” Area

The “News” area presents an up-to-date list of all the project news and accomplishments. This section will be continuously updated until the end of the project.

2.5 “Papers & Events” Area

“Papers & Events” area is used to keep the potential website users up to date concerning the organization of events and conferences related to the project objectives as well as the papers presenting its SWAN iCare research results. This page will be continuously updated until the end of the project.
Figure 6: "Papers & Events" Area

This page contains the papers and events for the SWAN-iCare project. Stay tuned...
2.6 “Useful Links” Area

Useful links” area provides all European Commission links related to the objectives of Flexibility project, as follows:

- All projects from FP7-ICT
- All projects from Personal Health Systems
- Cordis Website

Additional links will be added, until the end of the project.

2.7 “Contact” Area

In the “Contact” area, contact information on the project is given. Currently, this section contains contact details of the key persons involved in the SWAN iCare project so that the visitors are able to contact them for further information.
Contact Us

For more information about the SWAN-iCare project, please contact:

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OR

Mr Leonidas Lumbropoulos, PhD — lly@exodus.com

Research Department,
EXODUS SA, Athens branch
www.exodus.com

Figure 8: "Contact" Area
2.8 “Site Map” Area

The “Site map” area provides a tree diagram of the developed website structure of this project.

2.9 “Members” Area

The “Members Area” section of the web site can be accessed only by the beneficiaries of the SWAN iCare project. The members' area is based on Mindtouch Collaboration Environment. All beneficiaries have a unique account which can be used to login to the site and download/upload the deliverables, presentations or other files which are restricted to the public area. This section will also be continuously updated until the end of the project.
Members' area

You are about to enter the Members' Area of SWAN-iCare project.
Access to this area is granted only to the participants of the SWAN-iCare consortium.
To enter the members' area, please click the button below.

IMPORTANT NOTICE
The SWAN-iCare members' area is based on MindTouch Core/DRaM.
Please enter your username and password as supplied to you by EXODUS SA.

ENTER THE MEMBERS' AREA

Figure 10: "Members" Area