ICT-2009-248730

Florence

Multi Purpose Mobile Robot for
Ambient Assisted Living

STREP
Contract Nr: 248730

Deliverable: D7.2 – Project Public Web Site

Due date of deliverable: April 30, 2010
Actual submission date: April 30, 2010

Start date of Project: 01 February 2010   Duration: 36 months

Responsible WP7: PHILIPS

Revision: final

Project co-funded by the European Commission within the Seventh Framework Programme (2007-2013)		
Dissemination level		
PU	Public	X
PP	Restricted to other programme participants (including the Commission Service	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (excluding the Commission Services)	

0 DOCUMENT INFO

0.1 Author

Author	Company	E-mail
Dietwig Lowet	PHILIPS	dietwig.lowet@philips.com

0.2 Documents history

Document version #	Date	Change
V0.1		Starting version, template
V1.0	30-04-2010	Final version

0.3 Document data

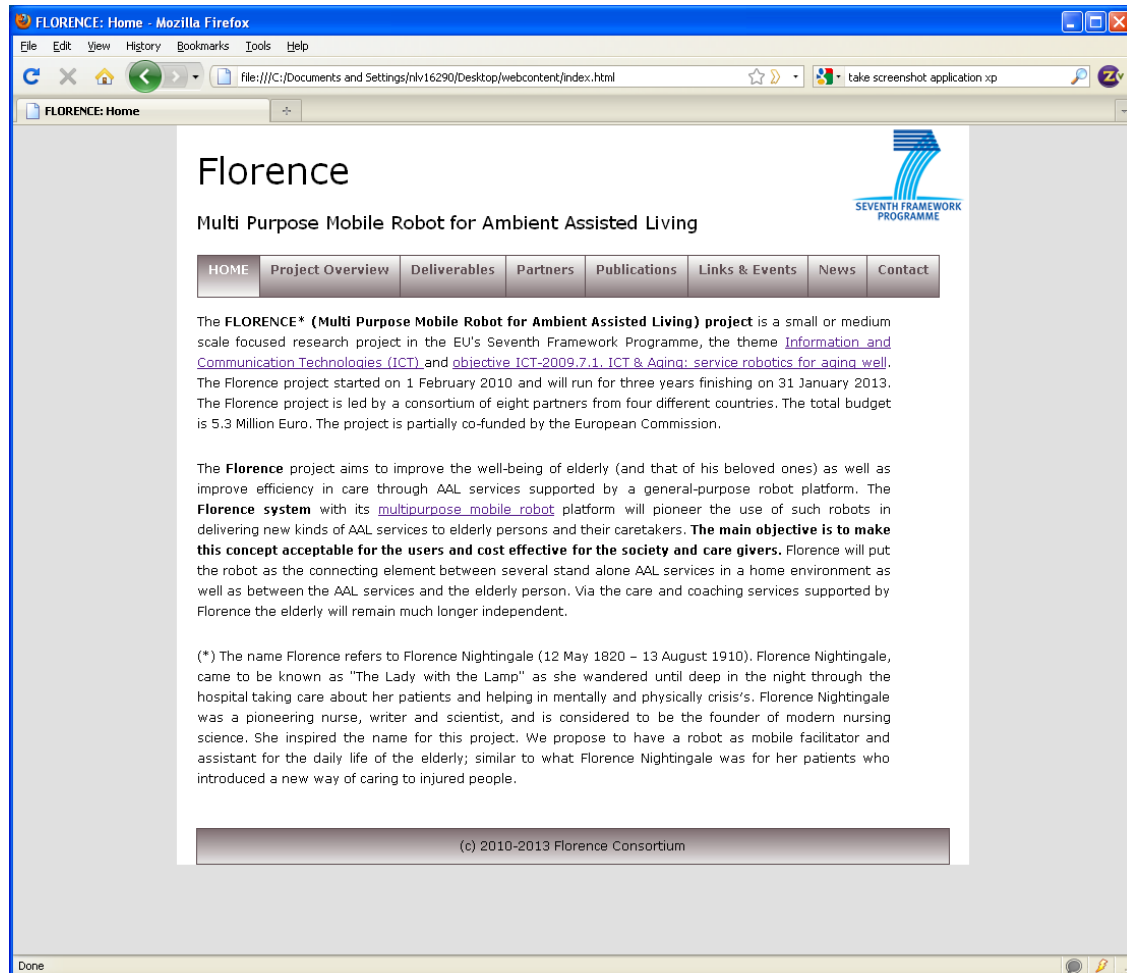| Keywords	
Editor Address data	Name: Dietwig Lowet Partner: Philips Address: High Tech Campus 34, 6.58, 5656 AE, Eindhoven, NL Phone: +31 (0)40 27 49 543 Fax: +31 (0)40 27 46 321 E-mail: dietwig.lowet@philips.com
Delivery date	

0.4 Distribution list

Date	Issue	E-mailer
28/02/10	Consortium members	<al_florence_all@natlab.research.philips.com>
	Project Officer	<luiz.santos@ec.europa.eu>
	EC Archive	<INFSO-ICT-248730@ec.europa.eu>

Table of Contents

1 MAIN PAGE

The URL of the Florence website is www.florence-project.eu.

2 PROJECT OVERVIEW PAGE

coaching and connectedness services, supported by Florence, the elderly will remain much longer independent.

A key aspect for Florence is **user acceptance**. Florence aims to improve the acceptance of AAL (robotic) services by providing both assistance and fun oriented lifestyle services via the same means. The ambition of Florence is that the elderly should be proud of having a Florence robot. Florence positions robots as autonomous lifestyle devices. By re-using the same interaction mechanisms of lifestyle services, Florence will make the adoption of AAL services by elderly easier. In addition, by positioning robots as a new kind of consumer products, i.e. as a new lifestyle product, Florence will attract the attention of services providers and consumer electronic vendors to the senior market. This is illustrated below. This increase of user-acceptance will greatly alleviate the need for personal care for elderly, and therefore provide for significant cost-savings.

Expected Results

The Florence system will support lifestyle and AAL services in the following categories:

Expected Results

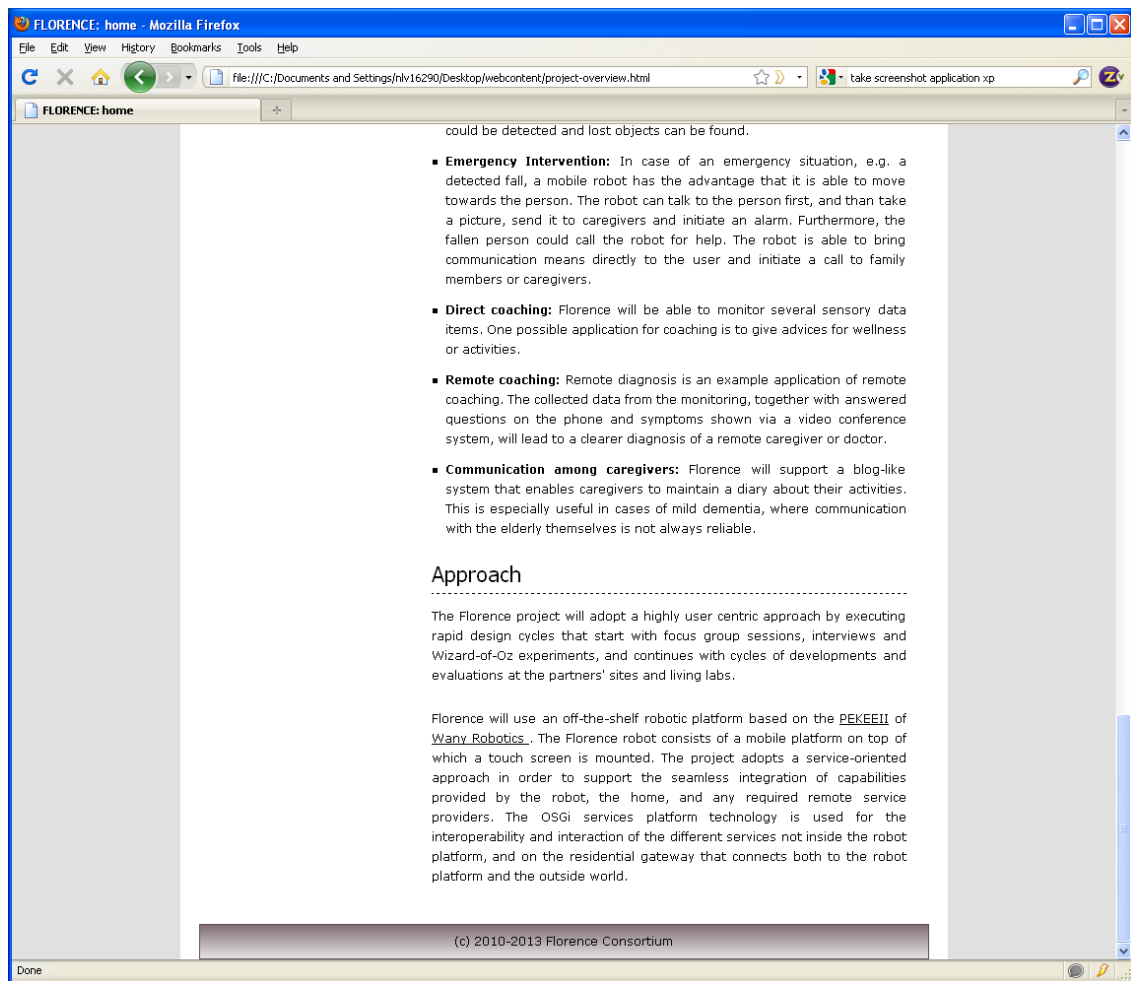The Florence system will support lifestyle and AAL services in the following categories:

- **Family involvement:** Florence will provide a non–obstructive, intuitive way of asynchronous communication with family members by sending pictures to the family members' mobile phones or emails or getting pictures from the family members to Florence robot's screen. This example application enables both sides to say "I am thinking of you" without forcing a direct answer.

- **Video telephone:** Implementing a video communication possibility enables the elderly person to participate in the family life e.g. by seeing the grandchild or daughter.

- **Home observation:** The Florence robot can be sent to other rooms to take a picture to see what is going on. Open windows and cupboards could be detected and lost objects can be found.

- **Emergency Intervention:** In case of an emergency situation, e.g. a detected fall, a mobile robot has the advantage that it is able to move towards the person. The robot can talk to the person first, and than take a picture, send it to caregivers and initiate an alarm. Furthermore, the fallen person could call the robot for help. The robot is able to bring communication means directly to the user and initiate a call to family members or caregivers.

could be detected and lost objects can be found.

- **Emergency Intervention:** In case of an emergency situation, e.g. a detected fall, a mobile robot has the advantage that it is able to move towards the person. The robot can talk to the person first, and than take a picture, send it to caregivers and initiate an alarm. Furthermore, the fallen person could call the robot for help. The robot is able to bring communication means directly to the user and initiate a call to family members or caregivers.

- **Direct coaching:** Florence will be able to monitor several sensory data items. One possible application for coaching is to give advices for wellness or activities.

- **Remote coaching:** Remote diagnosis is an example application of remote coaching. The collected data from the monitoring, together with answered questions on the phone and symptoms shown via a video conference system, will lead to a clearer diagnosis of a remote caregiver or doctor.

- **Communication among caregivers:** Florence will support a blog-like system that enables caregivers to maintain a diary about their activities. This is especially useful in cases of mild dementia, where communication with the elderly themselves is not always reliable.

Approach

The Florence project will adopt a highly user centric approach by executing rapid design cycles that start with focus group sessions, interviews and Wizard-of-Oz experiments, and continues with cycles of developments and evaluations at the partners' sites and living labs.

Florence will use an off-the-shelf robotic platform based on the PEKEEII of Wany Robotics . The Florence robot consists of a mobile platform on top of which a touch screen is mounted. The project adopts a service-oriented approach in order to support the seamless integration of capabilities provided by the robot, the home, and any required remote service providers. The OSGi services platform technology is used for the interoperability and interaction of the different services not inside the robot platform, and on the residential gateway that connects both to the robot platform and the outside world.

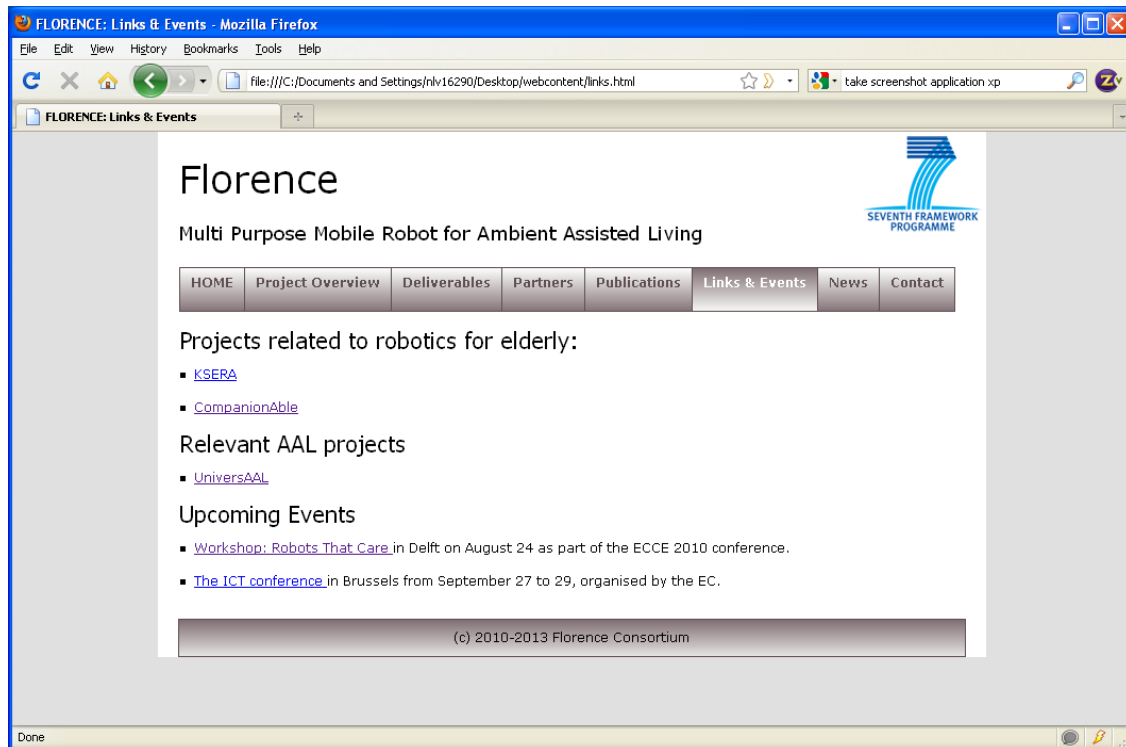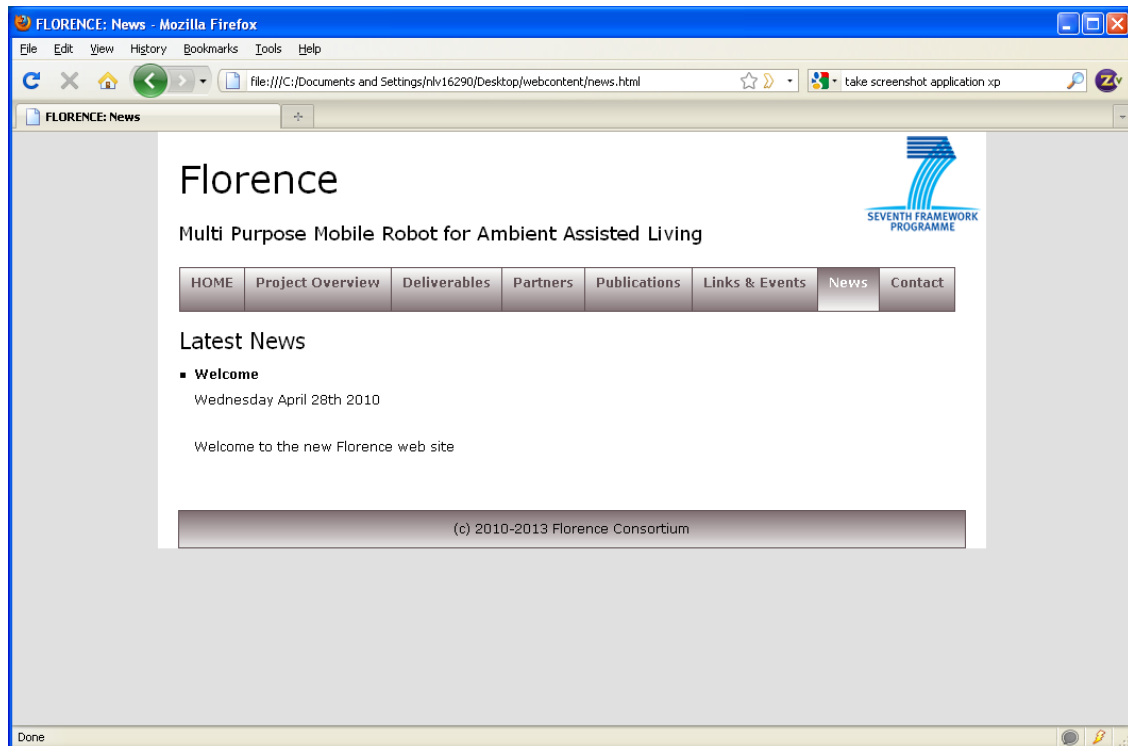(c) 2010-2013 Florence Consortium

3 DELIVERABLES PAGE

4 PARTNERS PAGE
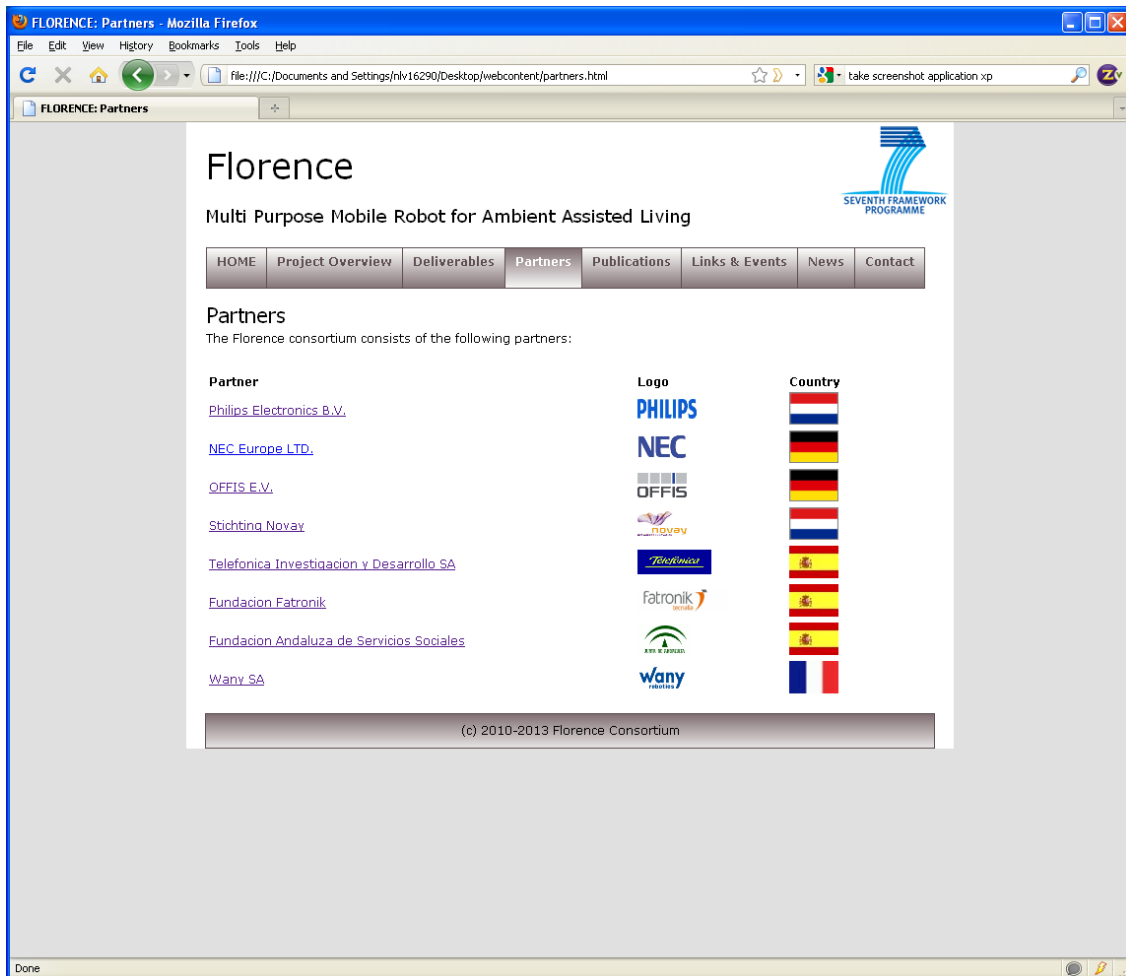
5 PUBLICATIONS PAGE
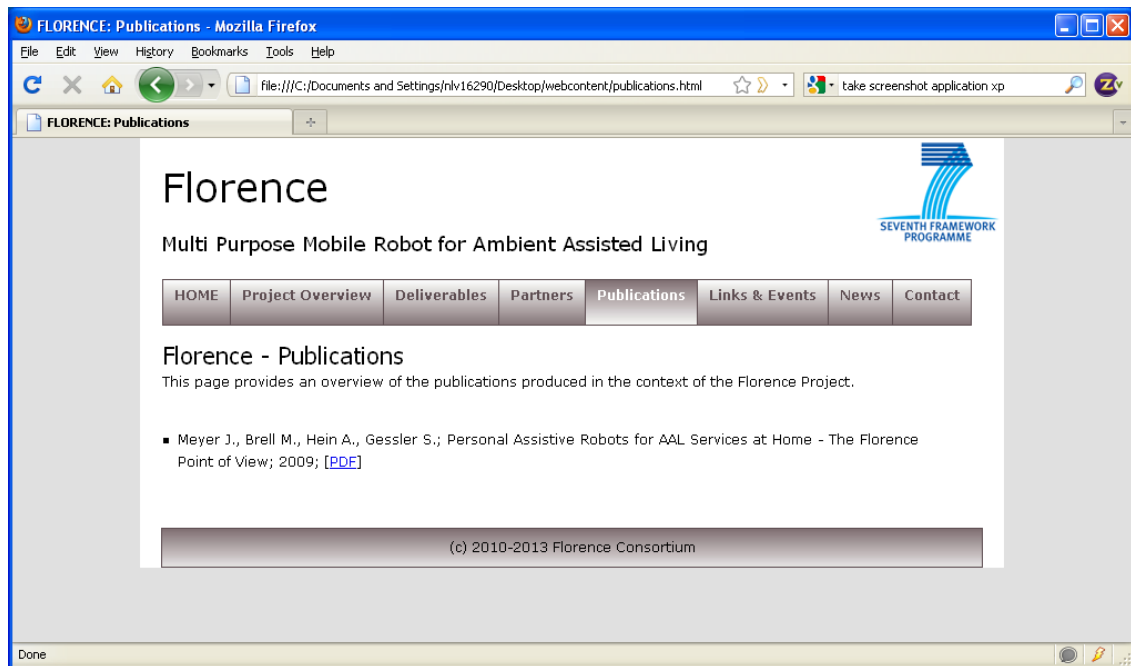
6 LINKS & EVENTS PAGE

7 NEWS PAGE

8 CONTACTS PAGE