



ICT-2009-248730

Florence

**Multi Purpose Mobile Robot for
Ambient Assisted Living**

STREP
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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

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0.2 Documents history

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

0.3 Document data

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0.4 Distribution list

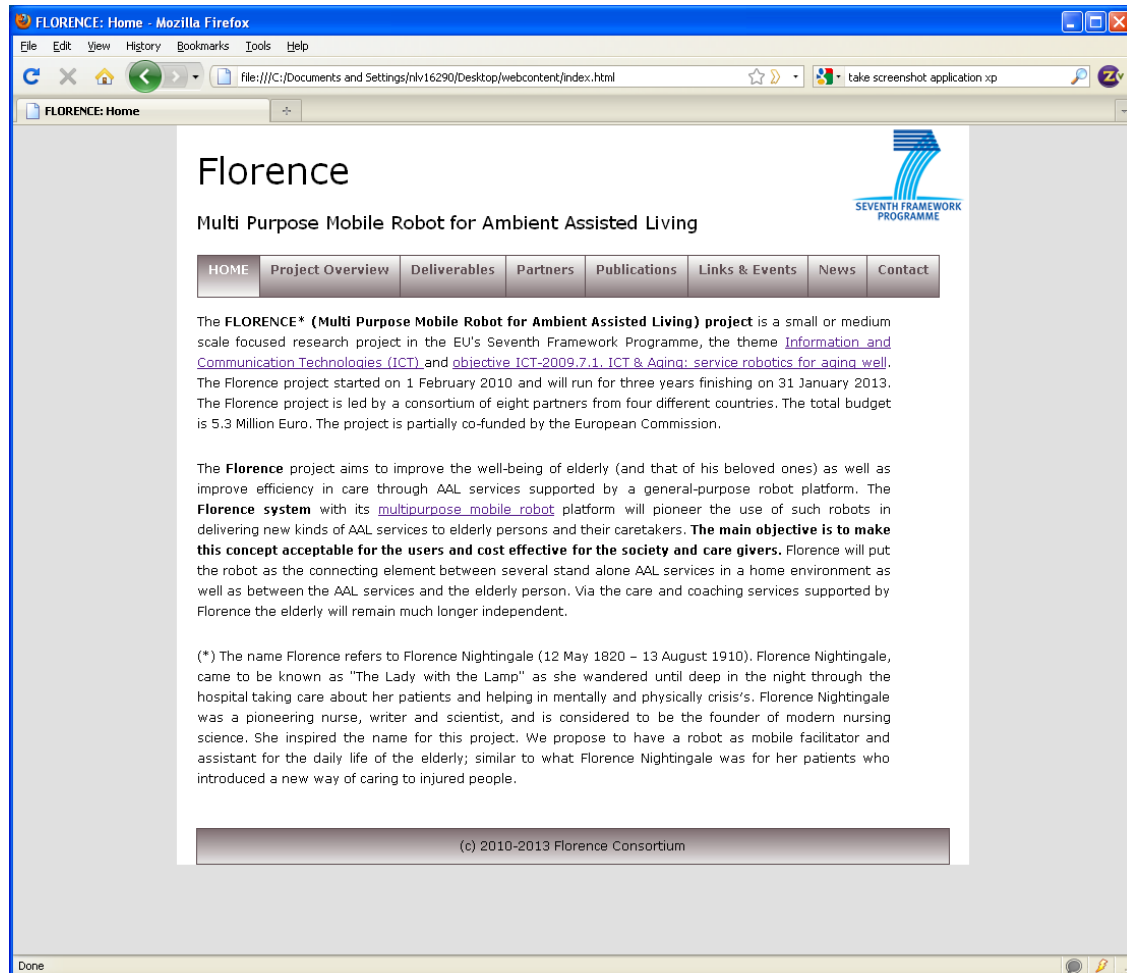
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28/02/10	Consortium members	<al_florence_all@natlab.research.philips.com>
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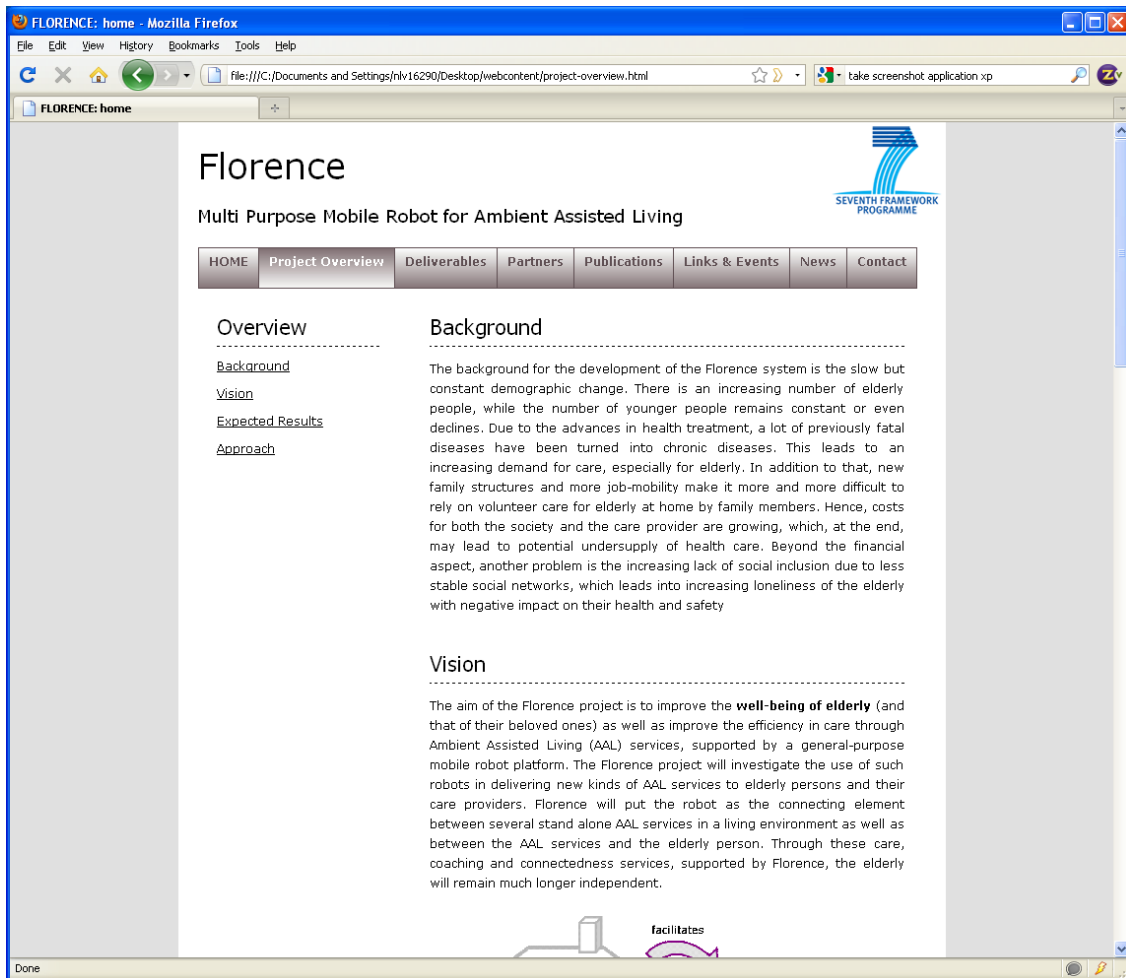
1 MAIN PAGE

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



The screenshot shows a Mozilla Firefox browser window displaying the Florence website. The browser's address bar shows the file path: file:///C:/Documents and Settings/nlv16290/Desktop/webcontent/index.html. The website title is "FLORENCE: Home". The main content area features the word "Florence" in a large font, followed by the subtitle "Multi Purpose Mobile Robot for Ambient Assisted Living". To the right of the text is the logo for the "SEVENTH FRAMEWORK PROGRAMME". Below the subtitle is a navigation menu with buttons for "HOME", "Project Overview", "Deliverables", "Partners", "Publications", "Links & Events", "News", and "Contact". The "HOME" button is highlighted. The main text describes the project as a small or medium scale focused research project in the EU's Seventh Framework Programme, the theme "Information and Communication Technologies (ICT)" and objective "ICT-2009.7.1. ICT & Aging: service robotics for aging well". It states that the project started on 1 February 2010 and will run for three years finishing on 31 January 2013. The project is led by a consortium of eight partners from four different countries. The total budget is 5.3 Million Euro. The project is partially co-funded by the European Commission. The text further explains that the Florence project aims to improve the well-being of elderly (and that of his beloved ones) as well as improve efficiency in care through AAL services supported by a general-purpose robot platform. The Florence system with its multipurpose mobile robot platform will pioneer the use of such robots in delivering new kinds of AAL services to elderly persons and their caretakers. The main objective is to make this concept acceptable for the users and cost effective for the society and care givers. Florence will put the robot as the connecting element between several stand alone AAL services in a home environment as well as between the AAL services and the elderly person. Via the care and coaching services supported by Florence the elderly will remain much longer independent. A footnote explains that the name Florence refers to Florence Nightingale (12 May 1820 – 13 August 1910). Florence Nightingale, came to be known as "The Lady with the Lamp" as she wandered until deep in the night through the hospital taking care about her patients and helping in mentally and physically crisis's. Florence Nightingale was a pioneering nurse, writer and scientist, and is considered to be the founder of modern nursing science. She inspired the name for this project. We propose to have a robot as mobile facilitator and assistant for the daily life of the elderly; similar to what Florence Nightingale was for her patients who introduced a new way of caring to injured people. At the bottom of the page, there is a copyright notice: "(c) 2010-2013 Florence Consortium".

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:

FLORENCE: home - Mozilla Firefox

file:///C:/Documents and Settings/nlv16290/Desktop/webcontent/project-overview.html

FLORENCE: home

Expected Results

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

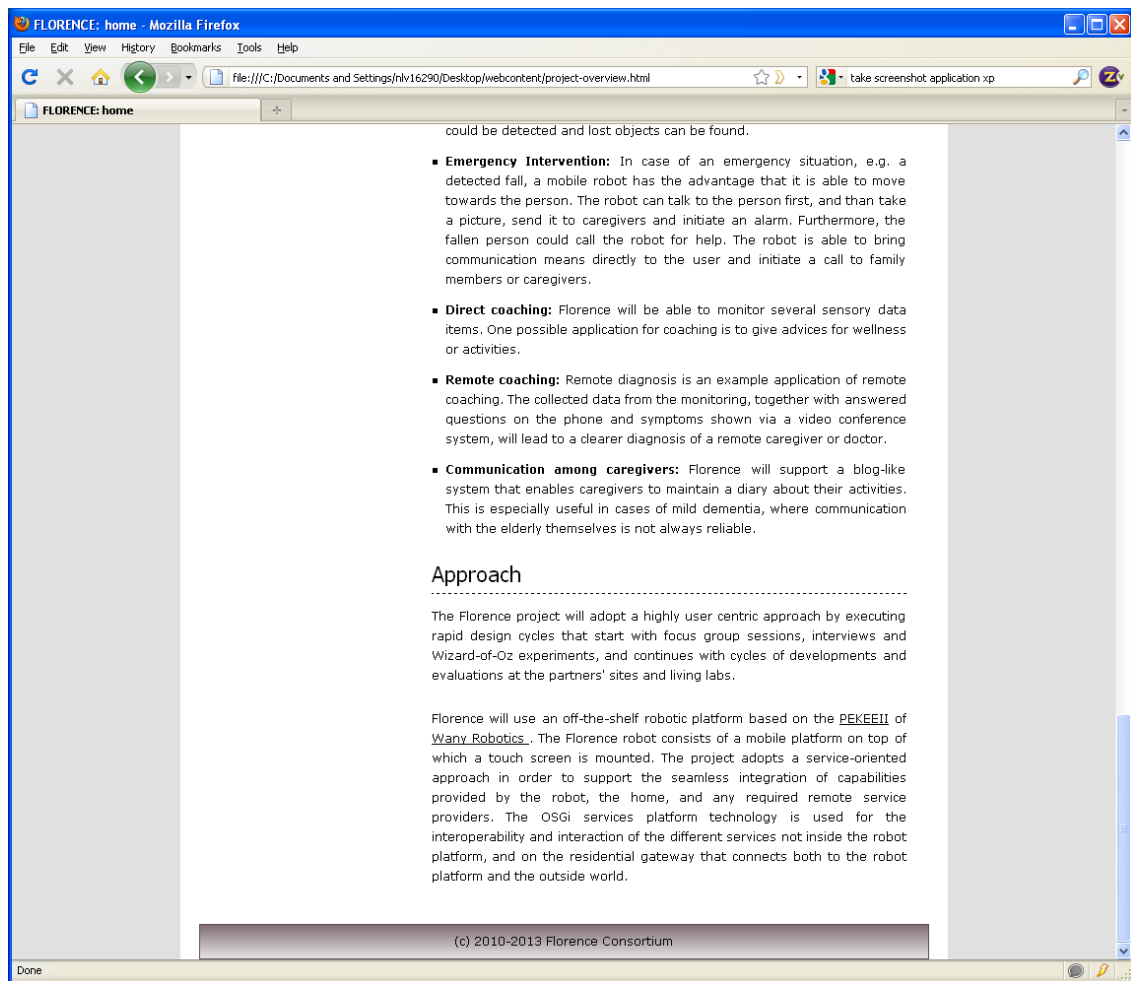
■ **Family involvement:** Florence will provide a non-obstructive, intuitive way of asynchronous communication with family members by sending pictures to the family members' mobile phones or emails or getting pictures from the family members to Florence robot's screen. This example application enables 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 then 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.

Done



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Florence
Multi Purpose Mobile Robot for Ambient Assisted Living

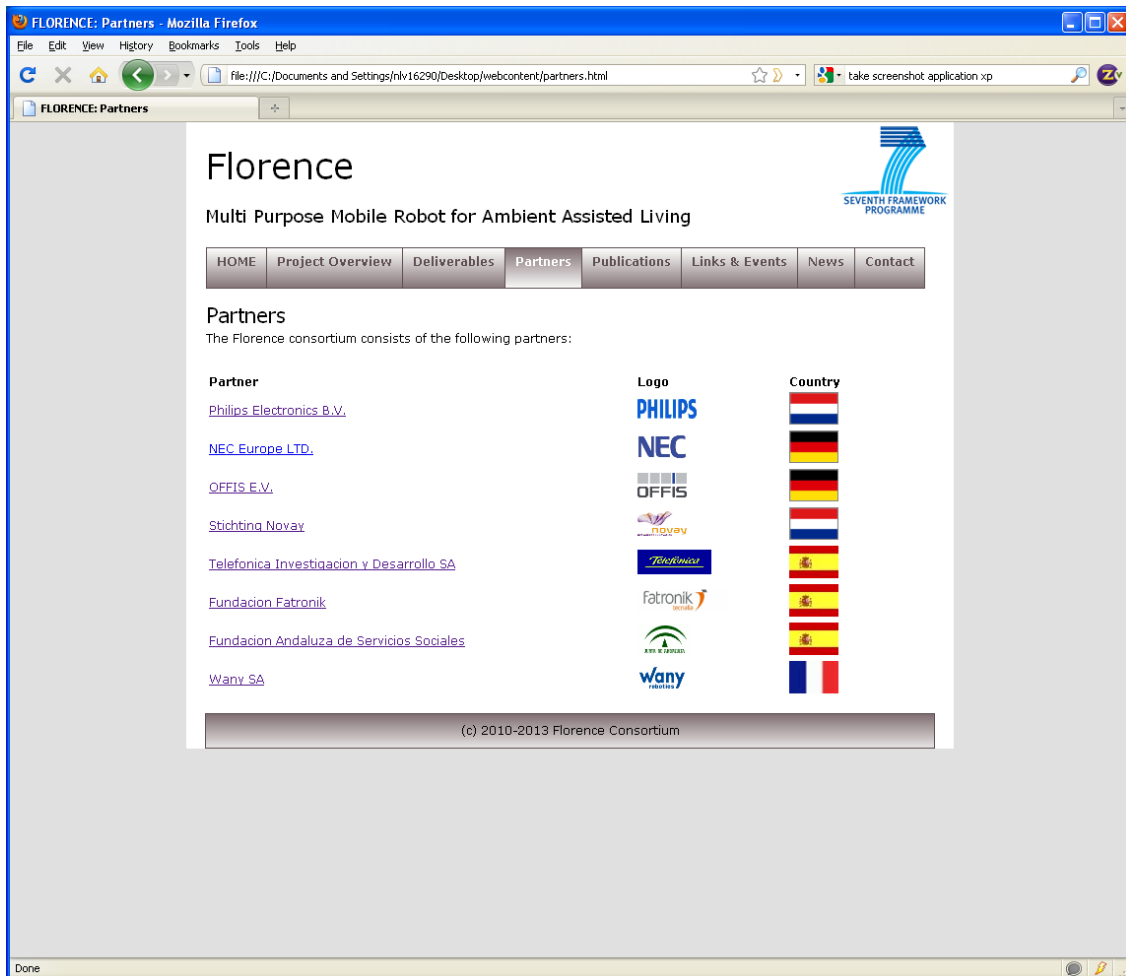
HOME | Project Overview | **Deliverables** | Partners | Publications | Links & Events | News | Contact

Public Reports

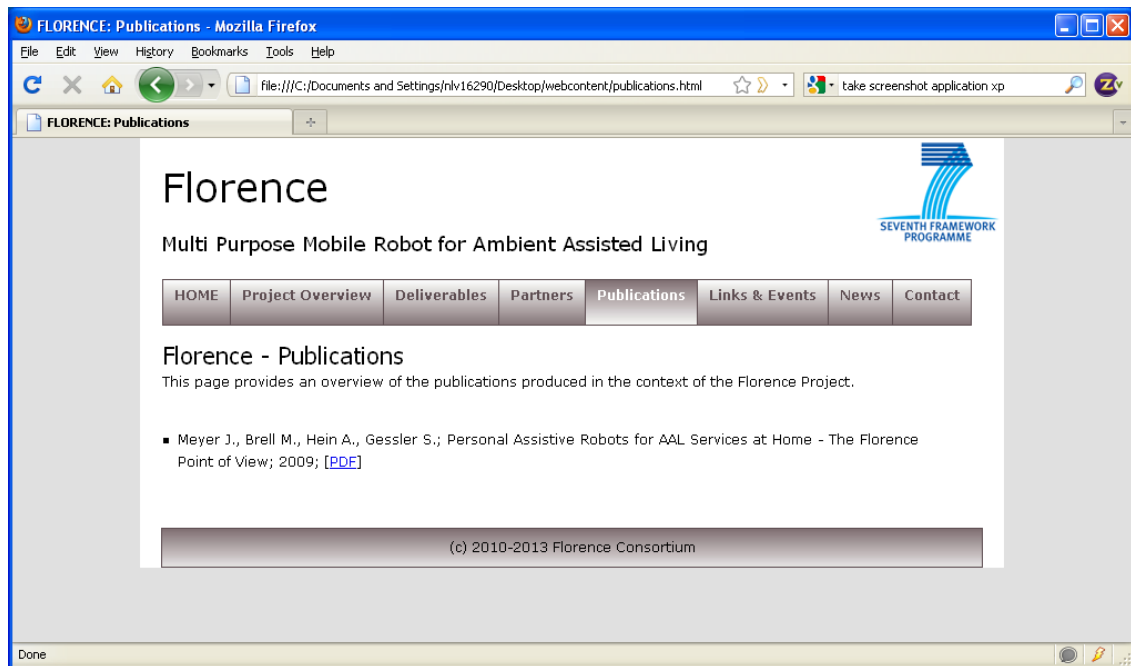
2010		
Nr	Title	Delivery date
D8.1	Public Summary of Project [PDF]	February 2010
D7.2	Project Public Web Site	April 2010
D1.1	Initial Robot Based Service Scenarios	July 2010
D2.1	State of the Art of Multi-Purpose Robots and Privacy-aware AAL Home Systems	July 2010
D3.1	State of the Art in Monitoring and Decision Making	July 2010
D4.1	State of the Art in Human-Robot Interactivity	July 2010
D5.1	State of the Art in Robotic AAL Services	July 2010
2011		
Nr	Title	Delivery Date
D1.3	Final Robot Based Service Scenarios	January 2011
D1.4	Report on Wizard-of-Oz Experiments	January 2011
D6.1	Ethical Guidance Report on the National Regulations	April 2011
D6.2	Report on the Testing and Evaluation Methodology for the Controlled Home Environment Tests	July 2011
2012		
Nr	Title	Delivery date
D6.4	Report on the Testing Methodology for the Living Lab Testing	April 2012
2013		
D6.6	Evaluation of the Florence System	January 2013
D7.10	Final Dissemination Report	January 2012
D8.2	Final Report	May 2012

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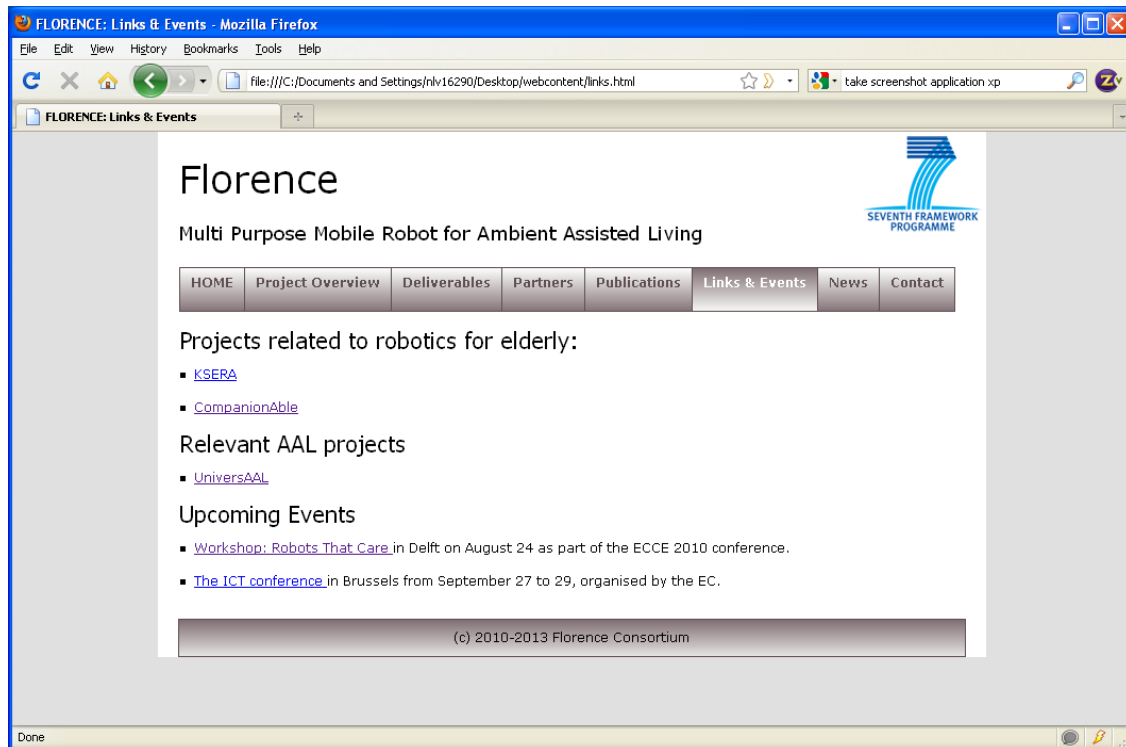
4 PARTNERS PAGE



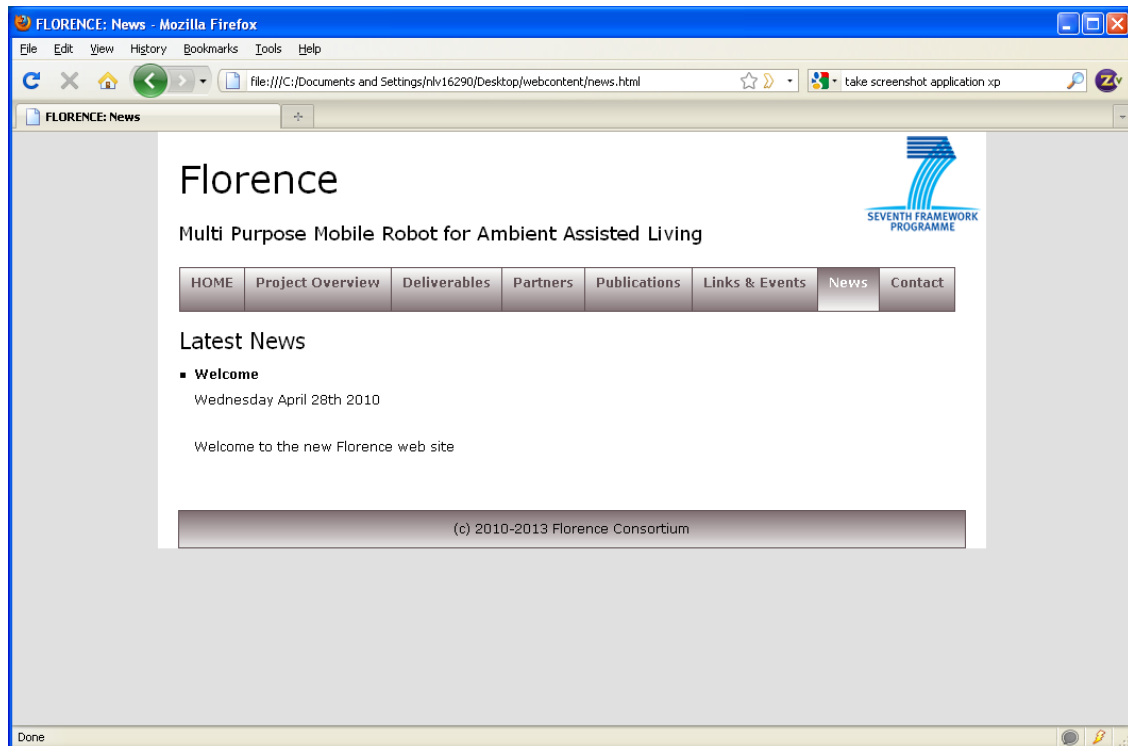
5 PUBLICATIONS PAGE



6 LINKS & EVENTS PAGE



7 NEWS PAGE



8 CONTACTS PAGE

