



7<sup>th</sup> Framework Programme

FP7-ICT-2013-10 N.611145

### Website of the project and the Twitter and LinkedIn tool

Deliverable n.	D8.1	Web Site of the Project and the Twitter and LinkedIn tool	
Work package	8	Dissemination Activities and Exploitation of Results	
Editor(s)	Dora Karali (RISA)		
Status	Final		
Distribution	Public (PU)		
Issue date	2014-1-23	Creation date	2014-01-13

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## REVISION CHART AND HISTORY LOG

REV	DATE	REASON
1	2014-01-13	Creation
2	2014-01-22	Changes after the peer review
3	2014-01-23	Final Version

## EXECUTIVE SUMMARY

The aim of this document is to provide a brief description of the ROBINSPECT website and the Twitter and LinkedIn tool. The website address selected is [www.robinspect.eu](http://www.robinspect.eu) in order to highlight the European nature of the project. The website is also available in [www.robinspect.com](http://www.robinspect.com). To additionally help the project dissemination, a user forum through Twitter and LinkedIn was also established.

## INTRODUCTION

Project websites are one of the main communication tools of projects funded under the EU Framework Programme (FP) for Research. It actually is one of the simplest and fastest means to describe all the project activities, so it has to give, in clearest way, every information about the project.

The url is [www.robinspect.eu](http://www.robinspect.eu). The address was selected in order to emphasize its link with the European Union since the project is funded under the 7th Framework program. The ROBINSPECT website address is included in all dissemination materials (leaflet, posters, and newsletters) produced for ROBINSPECT, so that people can receive further details on the project if they want. Efford was also made in order to increase page ranking on search engines.

Additionally, in order to reach well defined target groups among the stakeholders in the robotics industry, the tunnel management, inspection and assessment industry and the relevant research community, Twitter and LinkedIn will be used.

## 1. WEBSITE DESCRIPTION

### 1.1 Website structure

Following the best practice guidelines for EU project websites, the structure of the website which is presented as a main horizontal menu that is visible in all website pages, is:

- Homepage
- Project Overview
- Consortium and Management Structure
- Scientific Methodology and Work Packages
- Deliverables and Publications
- Events
- Media centre
- Glossary

Responsible for the maintenance of the website is Mr Stephan Camarinopoulos from RISA.

### 1.2 Homepage

At the site's Homepage (Figure 1), the visitor is welcomed and has the opportunity to be informed about the project at a glance. At the header area, the project full name and logo are presented whereas at the top right corner, the EC and 7th FW logo are depicted. The right side area informs the user about the project news and provides links to the Twitter and LinkedIn tool.



Figure 1:Home page

### 1.3 Project overview

The Project page (Figure 2) aims to provide more information about the project. The project is placed in a broader scientific and societal context to help the outside world perceive its relevance. For this purpose, the project page is divided in the following sections:

- The challenge: The use of recent, exploitable research in robotics and the associated fields of computer vision and sensors in an automated system that in one pass can perform inspection and assessment of the civil infrastructure in general and transportation tunnel infrastructure in particular are analysed.
- Objectives: The technological and scientific objectives as reported in the project Technical Annex are listed.
- Expected results and impacts: The strategic impact of the expected results is presented.



Figure 2:Project page

## 1.4 The Consortium

The list of partners with their country of origin and logo is presented under the Consortium link.

## 1.5 Scientific Methodology and Work Packages

The overall scientific methodology is described and the work package breakdown is presented in this section (Figure 3). Each work package is explained and the partner that leads the effort is mentioned too. A graphical representation of how the different work packages are linked is included.



**ROBINSPECT** ROBotic System with Intelligent Vision and Control for Tunnel Structural INSPECTION and Evaluation

Home Project Consortium **Scientific Methodology and Work Packages** Deliverables and Publications Events Media centre  
Glossary

### Scientific Methodology and associated work plan

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The existing huge need and large market for inspection and assessment of ageing transportation tunnels with visible signs of deterioration at a time that there are no funds or manpower to do the job, presents a big opportunity to the robotics industry. Towards this end, ROBINSPECT proposes specialised work to adapt, extend and validate recent, exploitable, research results that will provide the required functionalities and intelligence to an automatic, multi-component and multi-degree-of-freedom robotic system that will credibly, efficiently and inexpensively perform both inspection and assessment of the tunnel in a single pass. Such a system will permit the wide spread deployment of robotic systems in the tunnel inspection market.

More specifically, what is needed is adaptation of recent research results to provide the required intelligence to identify defects of concern and the required intelligence to control the robotic arm to make measurements in the case of the latter defects. Needed are also adaptation/extension of existing sensors to provide measurements of defects of concern with the required accuracy and speed and algorithms that based on the latter measurements will assess the structural adequacy of the tunnel. To the above, one should add that state of the art navigation and positioning techniques should be adapted for tunnel inspection.

In this work the above will be provided in an automated robotic system for tunnel structural inspection and assessment that will be field evaluated in terms of its potential take-up and operational employment in a number of real cases.

The work will be carried out in 9 Work Packages (WPs) as follows:

```
graph TD
    A[Scenarios and Metrics, User Requirements, Specifications and System Architecture] --> B[WP1]
    B --> C[WP3: Computer Vision for Real Time Defect Detection]
    B --> D[WP4: Measuring Devices for the Width and Depth of Cracks]
    B --> E[WP5: Structural Assessment of Damaged Tunnels]
    C --> F[ ]
    D --> F
    E --> F
    F --> G[ ]
    G --> H[ ]
```

Figure 3:Scientific methodology and associated work plan

## 1.6 Deliverables and Publications

Under this link, the visitor will find two lists of documents: public deliverables and scientific publications. Public deliverables are listed in a table providing information about the deliverable number and title. They are downloadable in PDF format.

Scientific publications, that derive directly from the outputs of the project, are listed in a separate table with information about the author and the title. If covered by “open access”, they are also downloadable from the project website.

## **1.7 Events**

Events present future and past events, providing dates and a contact point.

A list of conferences and special sessions during which the project will be presented will also be included here.

## **1.8 Media centre**

This section of the website includes a sub-menu with the following sections:

- Newsletters, a list of newsletters that will be published during the life of the project
- Flyers & Posters, material published for the dissemination purposes of the project
- Videos
- Project facts

## **1.9 Glossary**

The last section includes a glossary of terms and abbreviations used in the project.

## 2. TWITTER AND LINKEDIN TOOL

In the framework of ROBINSPECT, use will be made of the Twitter and LinkedIn to reach well defined target groups among the stakeholders in the robotics industry, the tunnel management, inspection and assessment industry, the relevant research community and the media and public at large in order to promote the project results.

The Twitter account is <https://twitter.com/robinspect> while the LinkedIn group that has been established is named ROBINSPECT and can be found under the link <http://www.linkedin.com/groups?gid=7445986>. The links to the social media are available in all website pages.

Responsible for the establishment of the Group of Experts in Twitter and LinkedIn tool is Mr Juan Victores from UC3M.

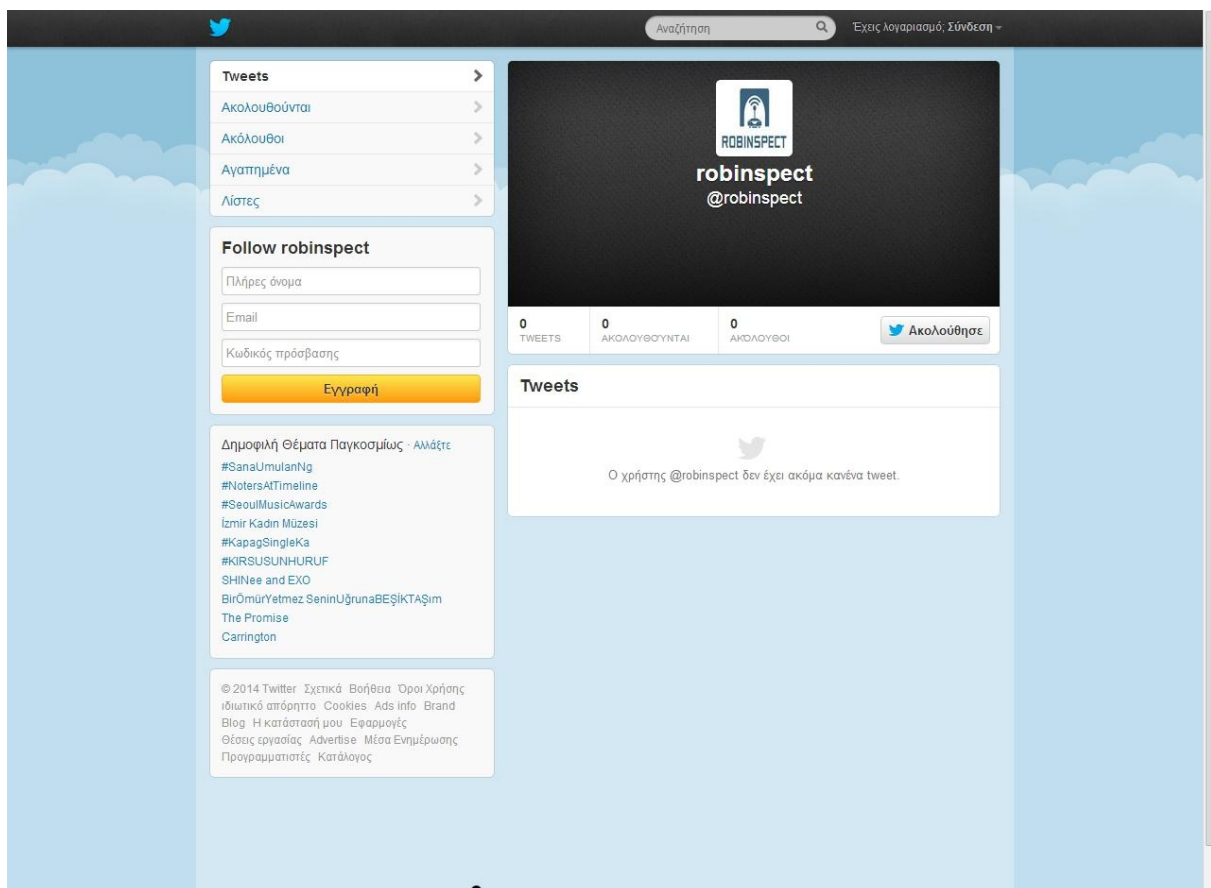


Figure 4: The Twitter tool

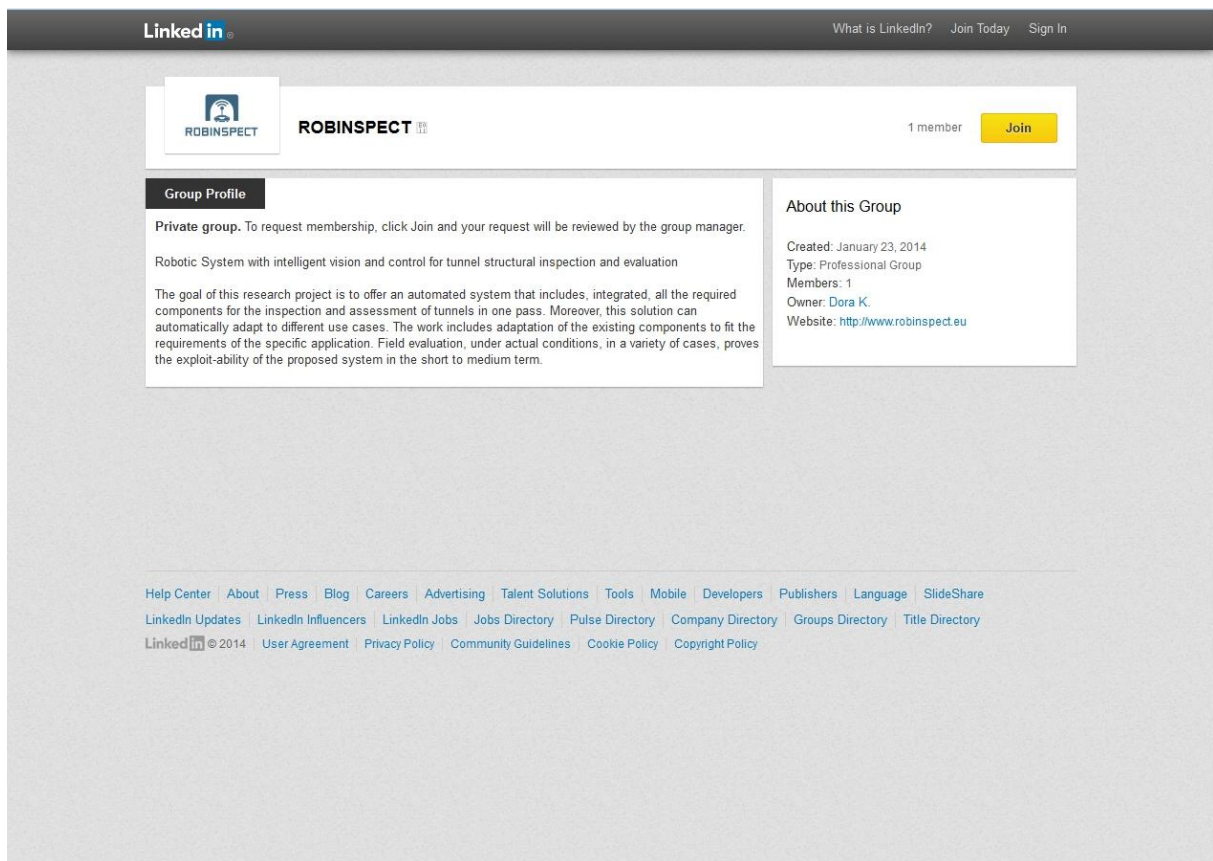


Figure 5: The LinkedIn group

## CONCLUSIONS

Via the website and the social networks, the consortium seeks to establish a communication with interested people and provide not only generic and static information but also in-depth presentation of the research activities that are in progress. The visitors can choose the level of information that they are going to receive ranging from pure informative to technical publications depending on their interests and background. A major effort will be devoted during the project's duration to continuously update of the website with newer information and improve the project's social media presence.