FABRIC

Feasibility analysis and development of on-road charging solutions for future electric vehicles

FABRIC project Website

Deliverable No.		D1.3.3	
Workpackage No.	WP1.3	Workpackage Title	Dissemination and Exploitation
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Status		Final	
Dissemination level		Public	
Project start date and duration		01 January 2014, 48 Months	
Revision date		2014-07-09	
Submission date		2014-07-28	

This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 605405

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REVISION CHART AND HISTORY LOG

REV	DATE	REASON
0.1	2014- 07- 09	*1s version created*
0.2	2014-07-24	Revision after review comments

INTRODUCTION

The aim of this deliverable is to provide a brief description of the developed FABRIC website and its main functionalities, which is the objective of the Task 1.3.2 (Project website) scheduled in the WP1.3 (Dissemination and Exploitation).

Within WP1.3 all the activities linked to the dissemination of the project objectives, its news and results are highly served by web-based means. Following this rationale, a project website has been developed in view of disseminating project outcomes including project objectives, methodology and expected results, significant achievements, technology news, consortium contacts, as well as all project public documents (deliverables, presentations, scientific publications etc.)

The ultimate aim of FABRIC is to provide a pivotal contribution relevant to electro-mobility in Europe, identifying the expected benefits and required costs so that the investments required for research, development and implementation in each of the components of the mobility system of the future can be fully understood, quantified and ratified. As one of the major project dissemination channels, the website will serve this purpose through the whole project duration. Currently, the State of the Art as well as the latest advances in Electromobility are presented. In addition, website users will have the opportunity to be regularly informed about the latest news in the area of Electromobility.

The FABRIC website url address is www.fabric-project.eu emphasising the link to the European Union. The graphic layout follows the basic design concept used for all other dissemination materials of the project, respecting a common FABRIC visual identity.

The website will be maintained and updated in a regular basis during the project lifetime. In addition, after the completion of the project and at least for five years, the website will be sustained in order to provide to all interested stakeholders with information on project results and contact details.

Inside this document the computing infrastructure used for hosting and running the website is presented. Moreover, a detailed description of the content and features of the FABRIC website is also provided.

1. INFRASTRUCTURE

1.1 Hosting and Running

The web portal of FABRIC website is running on a server with the following characteristics: CPU: Intel(R) Xeon(R) CPU E5530, Memory: 1.5GB, Storage: 200GB. Software wise the website is served by an Apache HTTP server 2.2.22 with PHP 5.3.10 and is compatible with all available web browsers (Internet Explorer, Mozilla Firefox, Google Chrome, etc.). The server is hosted in the faculties of the Institute of Communication and Computer Systems in Athens, Greece. The website has been developed in a mobile friendly mode by using Joomla 3.0.3. Content Management System. The Content Management System as well as the design are developed and customized by ICCS for the purposes of FABRIC.

2. WEBSITE STRUCTURE

FABRIC website has two horizontal menus as depicted by the following pictures:

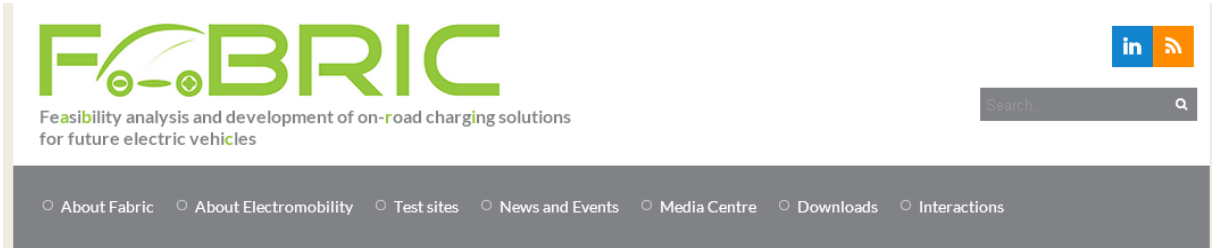

Figure 1: Upper Horizontal menu.

Figure 2: Lower Horizontal menu.

The structure of the first (upper) menu is comprised by the following pages:

- About FABRIC
- About Electromobility
- Test Sites

- News and Events
- Media Centre
- Downloads
- Interactions

The structure of the second (lower) menu consists the following pages:

- Contact
- Useful links
- Imprint

Both menus are visible in all website pages. All the different sections of the pages included in the navigation menus are described in details within the remaining sections of this report.

2.1 Home Page

At the site's **Homepage** (Figure 3), the visitor is welcome and has the opportunity to be informed about the project at a glance through the key messages included in the slider, placed below the upper navigation menu. The slider also includes images that represent the basic concept of the project and specifically a graphical depiction of wireless on road charging solutions. At the header area, the project full name and logo are presented whereas at the top right corner links to FABRIC LinkedIn and RSS tools are provided.

Inside **Homepage** information on the project objectives, test sites and expected results and the latest advances in the area of Electromobility are included. This page is constantly updated with project news as forthcoming events, meetings, workshops, press announcements etc. Through the Homepage interested people have the possibility to register for receiving project news through electronic manners. The FABRIC Consortium and the project video are also presented.

At the bottom of the home page the EC flag and respective acknowledgement are placed. At the same area information on the organisations that support the project, namely ERTICO and EUCAR are also included. These references are also appearing in every different page of the FABRIC website.

Furthermore, three different sections are included in the bottom horizontal menu as listed below and shown in figure 3:

- Contact
- Useful Links
- Imprint

By selecting the **Contact** and the **Imprint** sections, two subpages open in the same window providing more information as described below.

Website visitors can easily re-direct to the **Homepage** by selecting the FABRIC logo on the top left side of the website.

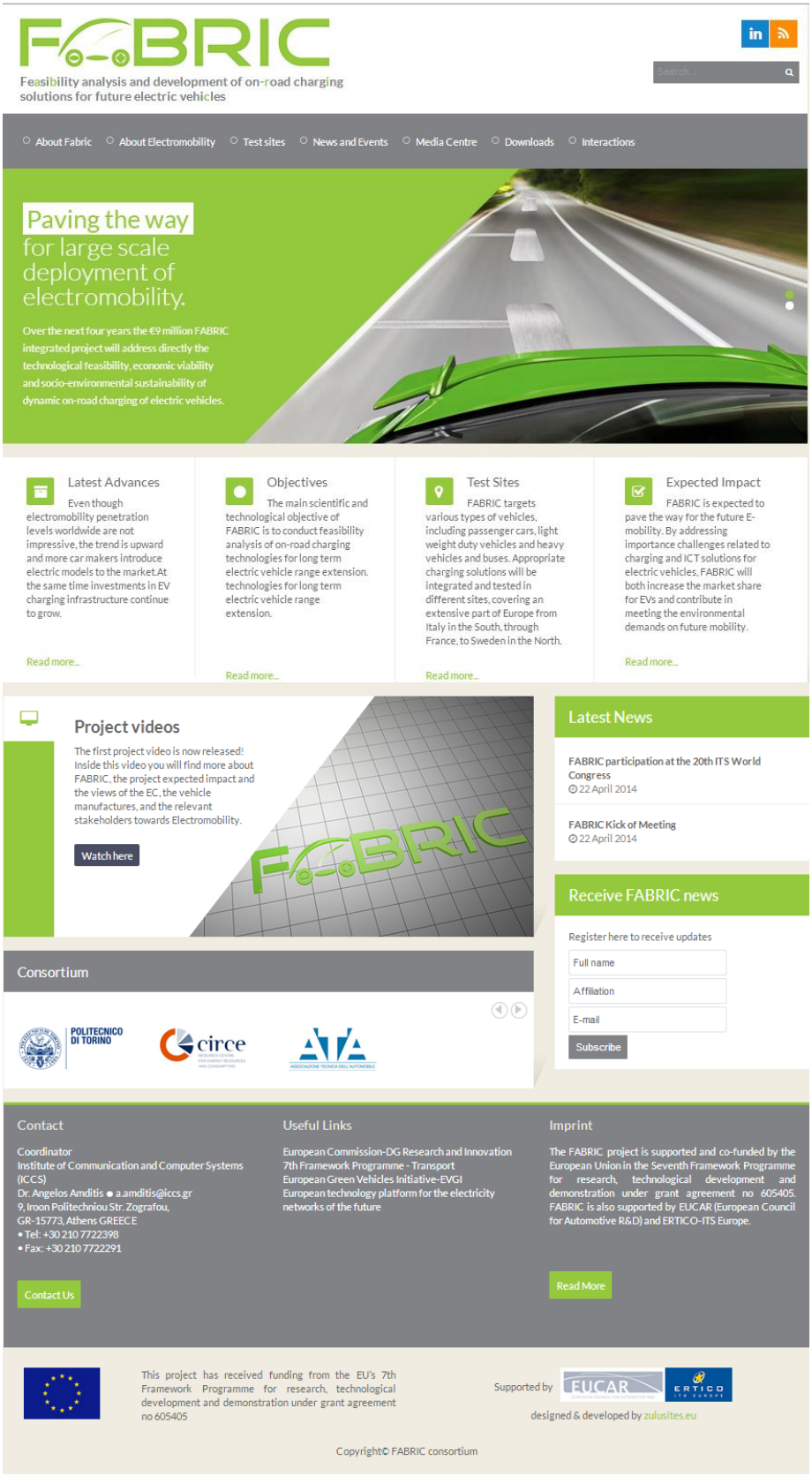

Figure 3: Homepage.

2.1.1 Contact

In the **Contact** page, one can find the contact details of the project's coordinator. By selecting the contact button, the details of the dissemination leader and a contact form appear in a different page. In this way, the interested visitors of the website will have the opportunity to contact the project's members and inquire further information or propose possible future collaborations.

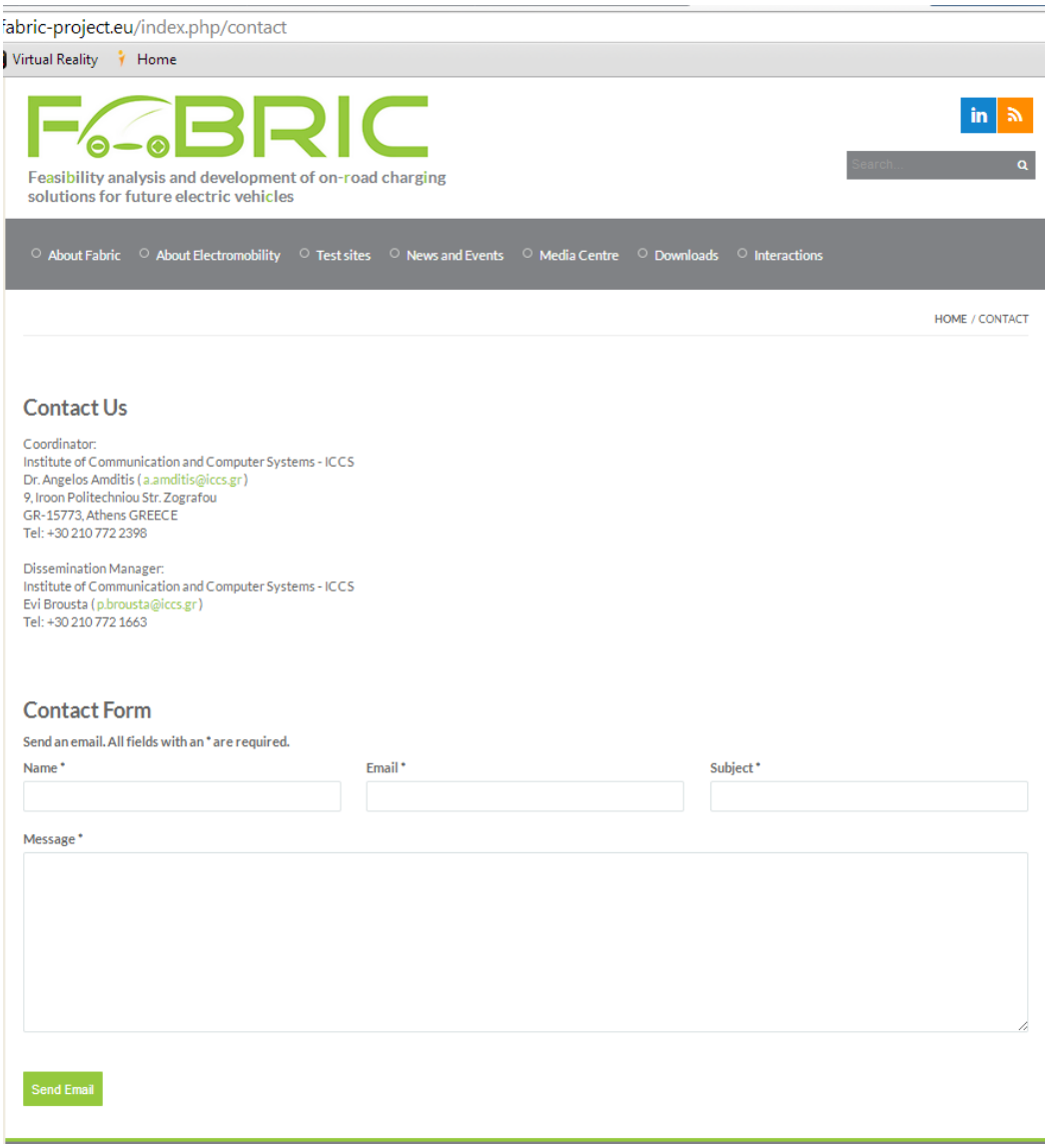

Figure 4: Contact subpage.

2.1.2 Useful Links

In the **useful links** page the following links appear:

- European Commission-DG Research and Innovation (http://ec.europa.eu/research/index.cfm)
- 7th Framework Programme – Transport (http://cordis.europa.eu/fp7/transport/home_en.html)
- European Green Vehicles Initiative-EVGI (http://www.egvi.eu/)
- European technology platform for the electricity networks of the future (http://www.smartgrids.eu/)

The purpose of this section is to provide the users with quick access on related EU websites and the websites of important European initiatives.

2.1.3 Imprint

The **Imprint** page includes a disclaimer as regards the FABRIC website as shown in figure 5 below.

HOME / IMPRINT

Imprint

The FABRIC project is supported and co-funded by the European Union in the Seventh Framework Programme for research, technological development and demonstration under grant agreement no 605405. FABRIC is also supported by EUCAR (European Council for Automotive R&D) and ERTICO-ITS Europe.

Responsibility for the content of this website lies entirely with the FABRIC consortium. The information provided in this website has been prepared exclusively for the purpose of providing information about the FABRIC project and related work and activities.

The FABRIC consortium has tried to ensure that all information provided in this website is correct at the time it was included. However, no representation is made or warranty given as to the completeness, accuracy and constant update of the information contained in this website.

The copyright for the material contained in this website belongs to the FABRIC consortium. The technology or processes described at this website may be subject to other intellectual property rights reserved by the FABRIC consortium or by third parties in various countries. No licence is granted in respect to these intellectual property rights.

By accessing this website, you agree that the FABRIC consortium will not be liable for any direct or indirect damage or any consequential loss arising from the use of the information contained in this website or from your access to any other information on the internet via hyperlinks.

No information contained in this website can be considered as a suggestion to infringe patents. The FABRIC consortium disclaims any liability that may be claimed for infringement or alleged infringement of patents. This website is an offer of information from the FABRIC project team.

Google Analytics

This website uses Google Analytics, a web analytics service provided by Google, Inc., a Delaware company whose main office is at 1600 Amphitheatre Parkway, Mountain View (California), CA 94043, United States (" Google ").

Google Analytics uses cookies, which are text files placed on your computer, to help the website analyze how users use the site. The information generated by the cookie about your use of the website (including your anonymized IP address) will be transmitted to and stored by Google on servers in the United States.

Google will use this information on our behalf in order to keep track of your use of the website, compiling reports on website activity for website operators and providing other services relating to website activity and internet usage. Google may also transfer this information to third parties where required to do so by law or where such third parties process the information on Google's behalf. Google will not associate your IP address with any other data held by Google. You may refuse treatment of the data or information by rejecting the use of cookies by selecting the appropriate settings on your browser, however, you should know that doing so may not be able to use the full functionality of this website. By using this website you consent to the processing of data about you by Google in the manner and for the above purposes.

This website is developed and maintained by:
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Figure 5: Imprint subpage.

2.2 About FABRIC

The menu item entitled "**About FABRIC**", which can be reached via the upper horizontal navigation menu, includes the following subpages:

- Vision
- Objectives
- Methodology
- Consortium

- Expected Results

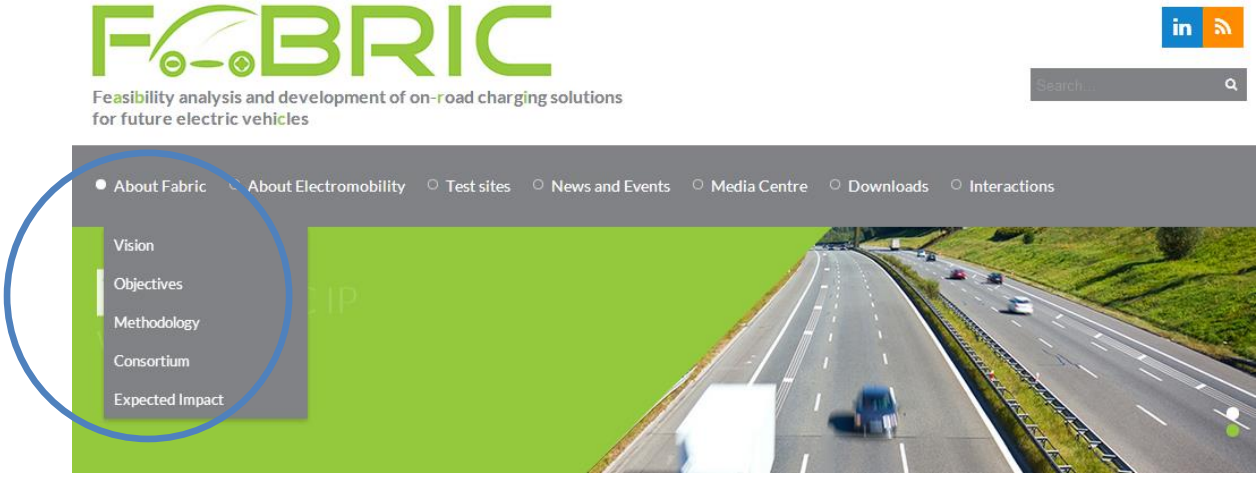

Figure 6: The different subpages of About Fabric.

The different subpages of About FABRIC provide the basic information about the project as included in the DoW. In the following chapters the content of these subpages is described in more details throughout screenshots and other related images.

2.2.1 Vision

By selecting the About FABRIC menu item the website users firstly visit the FABRIC **Vision** subpage. This subpage depicts the basic project pursuits namely to pave the way for the Large Scale adoption of pure Electric Vehicles (EVs) in future transportation systems. The content of the vision subpage is shown in figure 7 below. The image included in this page can be maximized and seen as a pop up window.

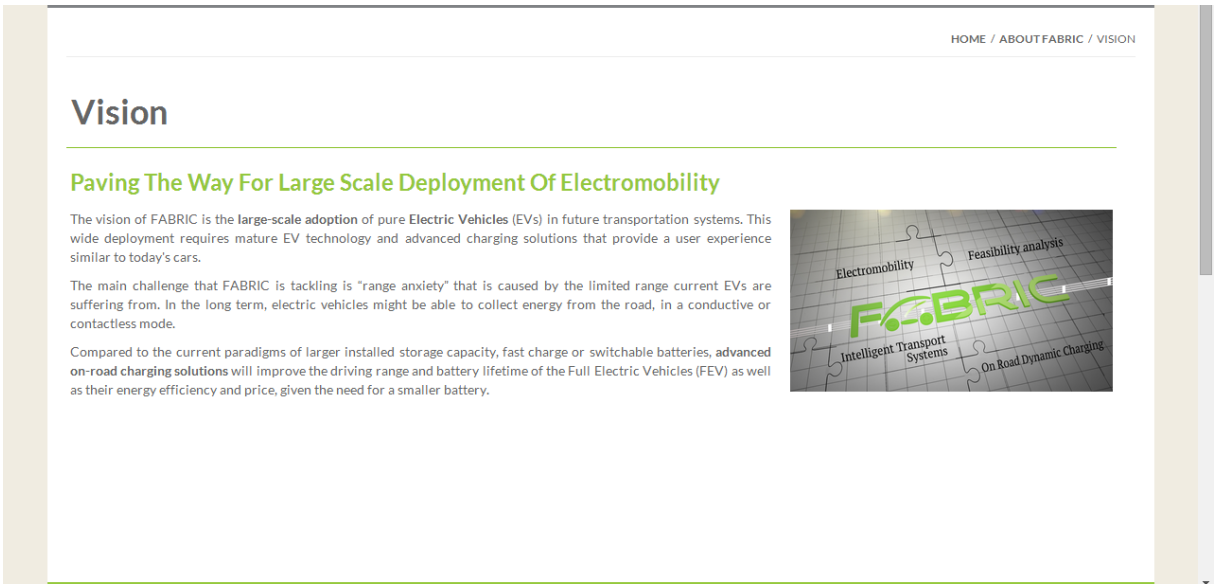

Figure 7: Vision subpage.

2.2.2 Objectives

The detailed scientific and technical objectives of the FABRIC project are described in details within this subpage.

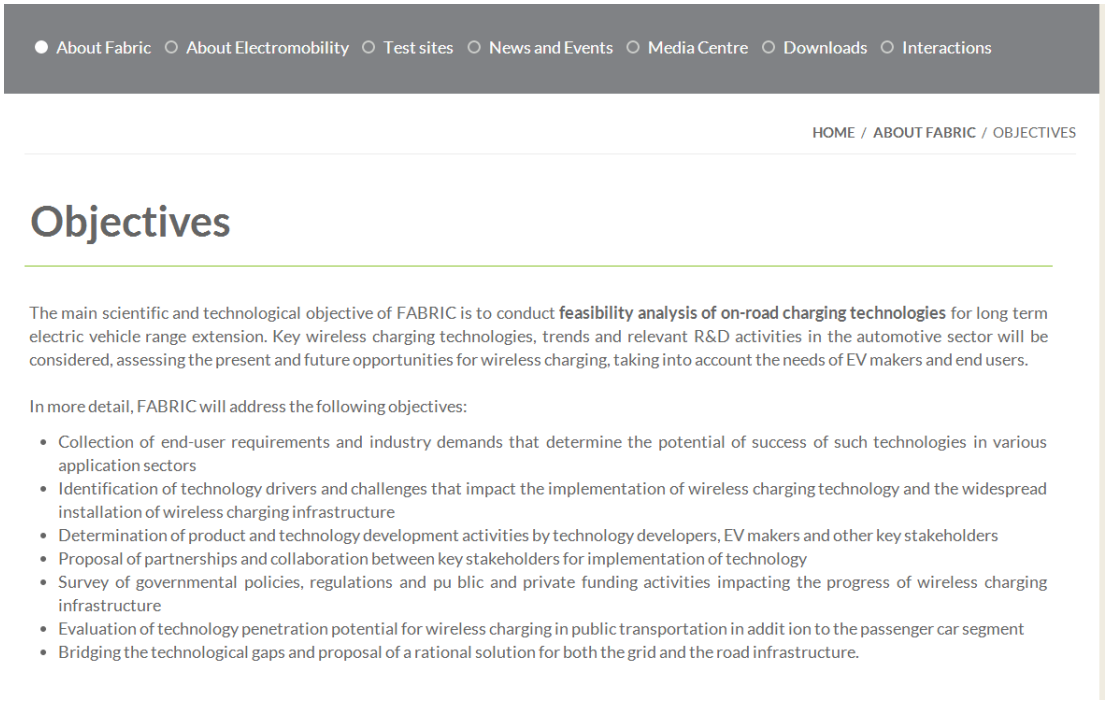

Figure 8: Objectives subpage.

2.2.3 Methodology

This subpage provides information related to the separation of the FABRIC work in the different Work Packages (WPs) in order for the consortium to achieve the expected results and maximise the project's impact. The content of this page is presented in Figure 9. The workflow between the different WPs is graphically represented in Figure 10 placed in the Methodology subpage and opens as a pop up window when selected.

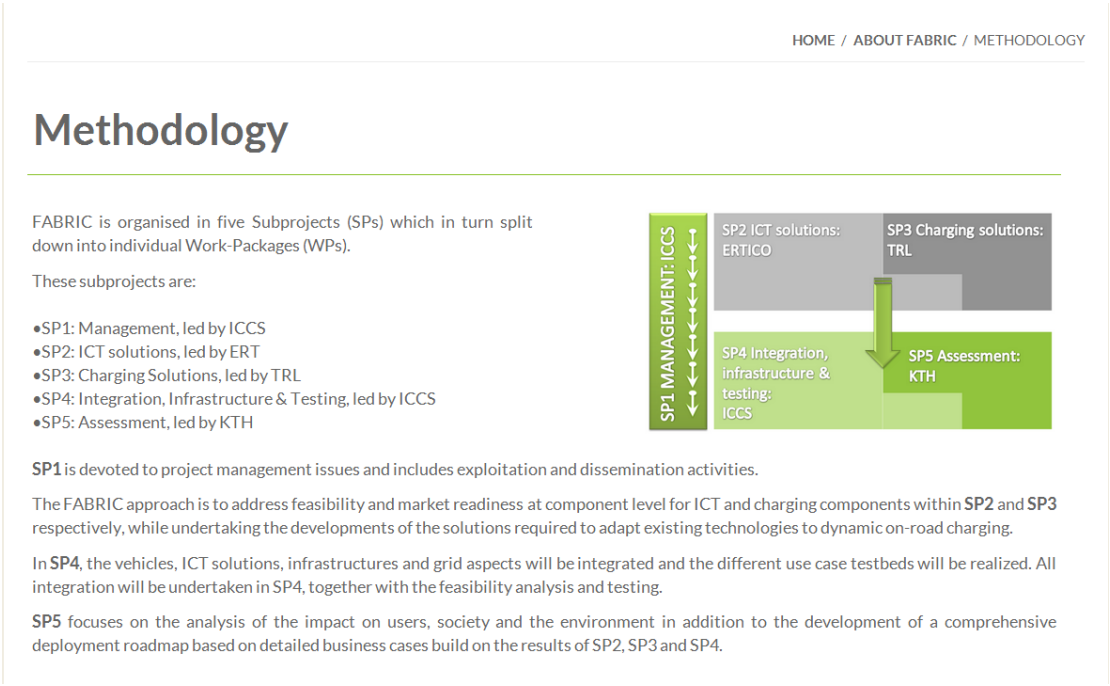

Figure 9: Methodology subpage.

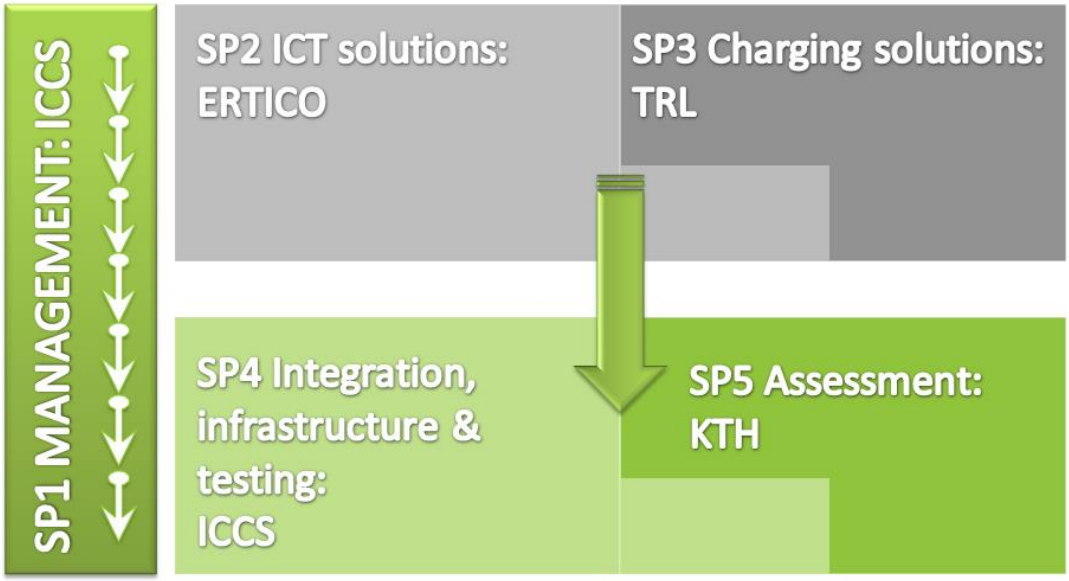

Figure 10: FABRIC Work Packages.

2.2.4 Consortium

The FABRIC consortium is composed by 23 partners in total. All project partners are presented in the **Consortium** subpage, through respective logos and website links and distributed in different categories namely Vehicle Manufacturers, Road Managers, Technology Suppliers, Research Institutes, SME's, and Association. The content of this subpage is shown in figure 11.

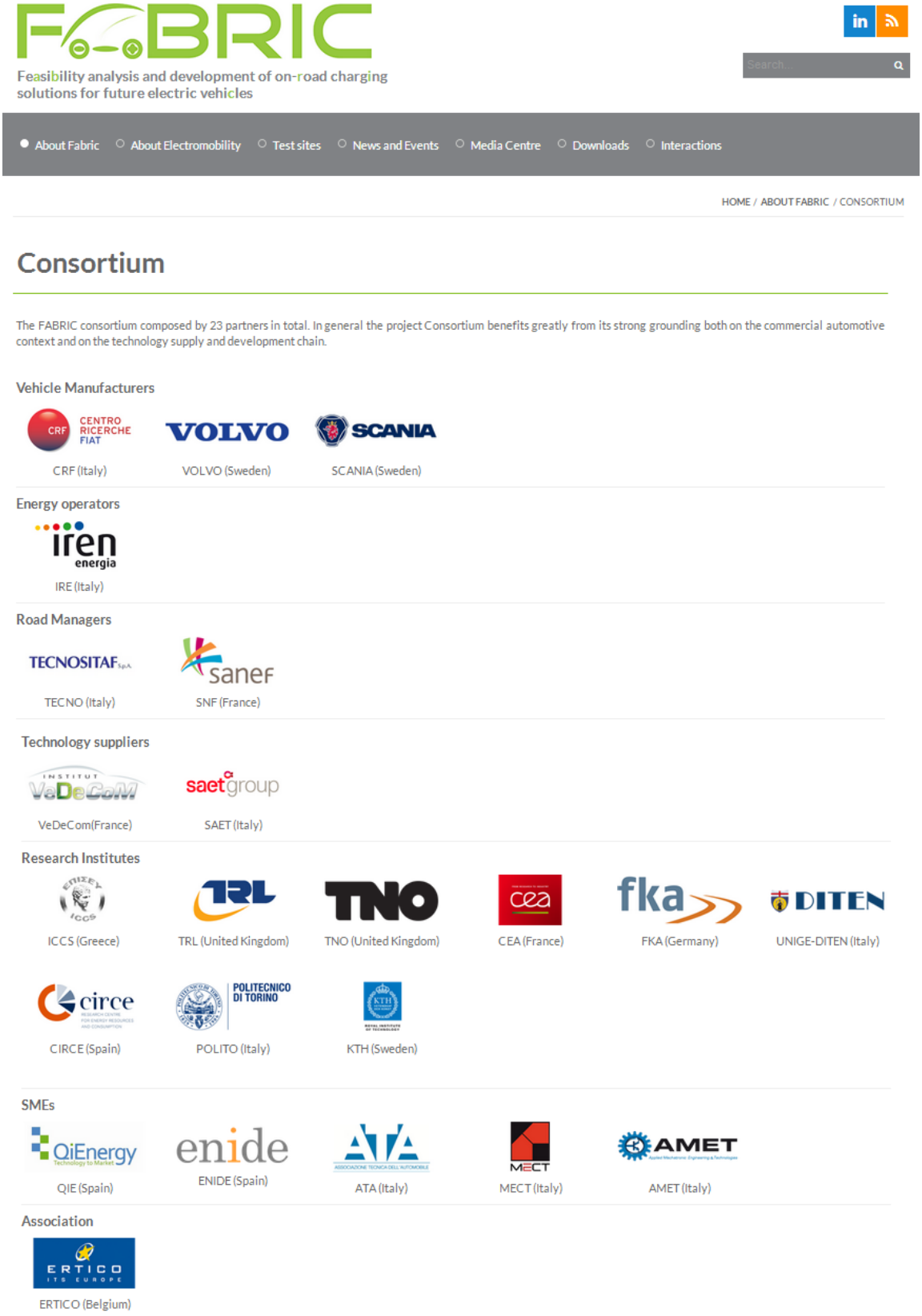

Figure 11: FABRIC consortium.

2.2.5 Expected Impact

In this subpage the FABRIC expected impact is described while the respective expected impact steps chain is graphically presented. The content of this subpage can be seen in Figures 12 and 13 below.

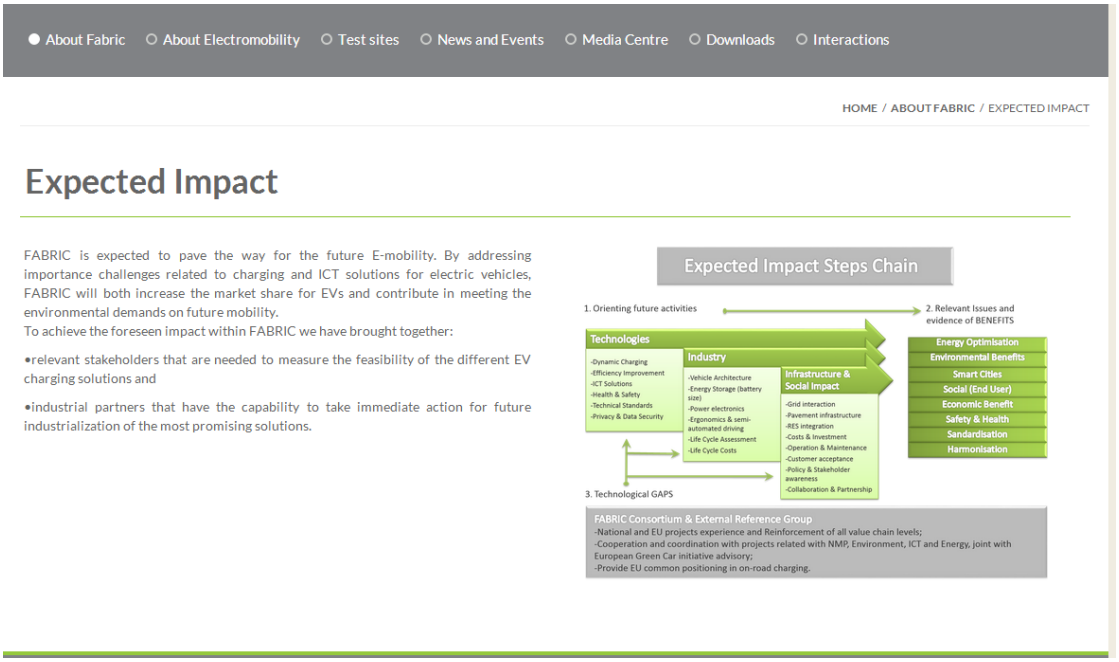

Figure 12: Expected Impact Subpage.

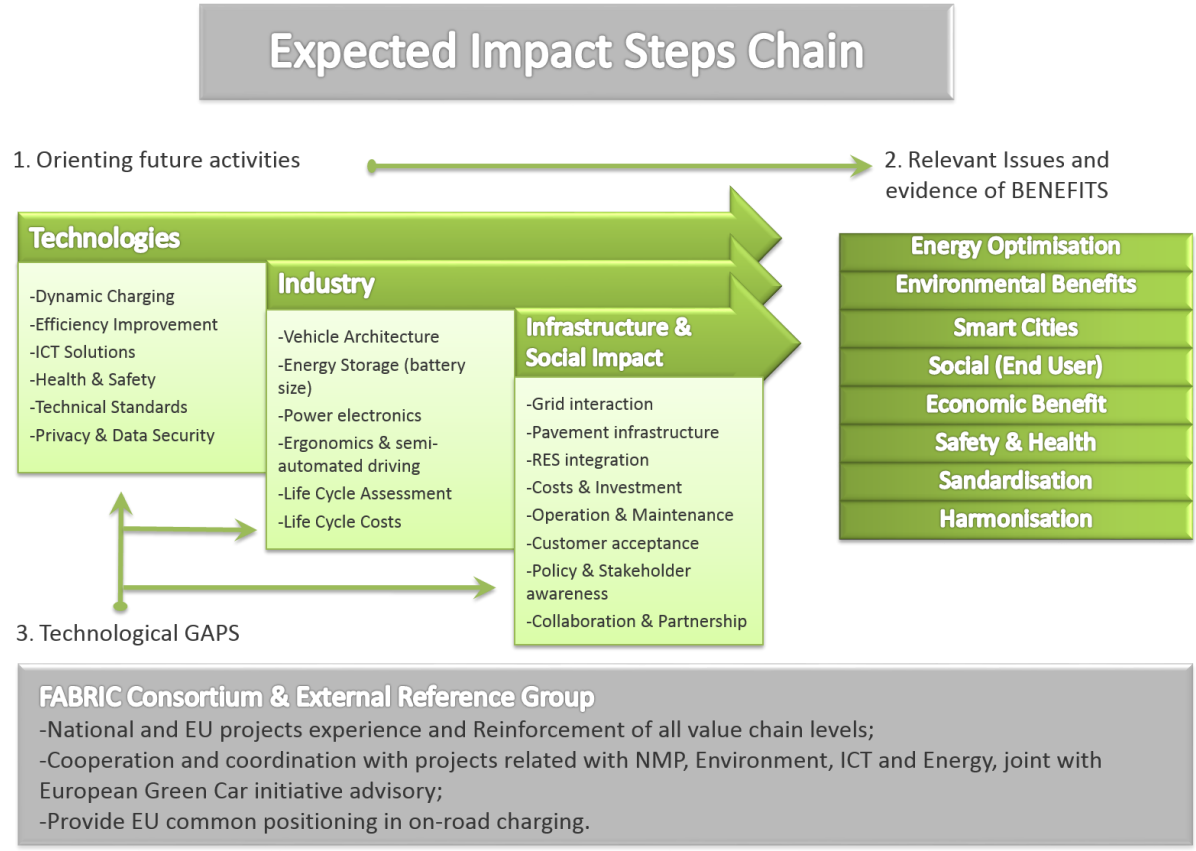

Figure 13: Graphic presents the Expected Impact Steps Chain.

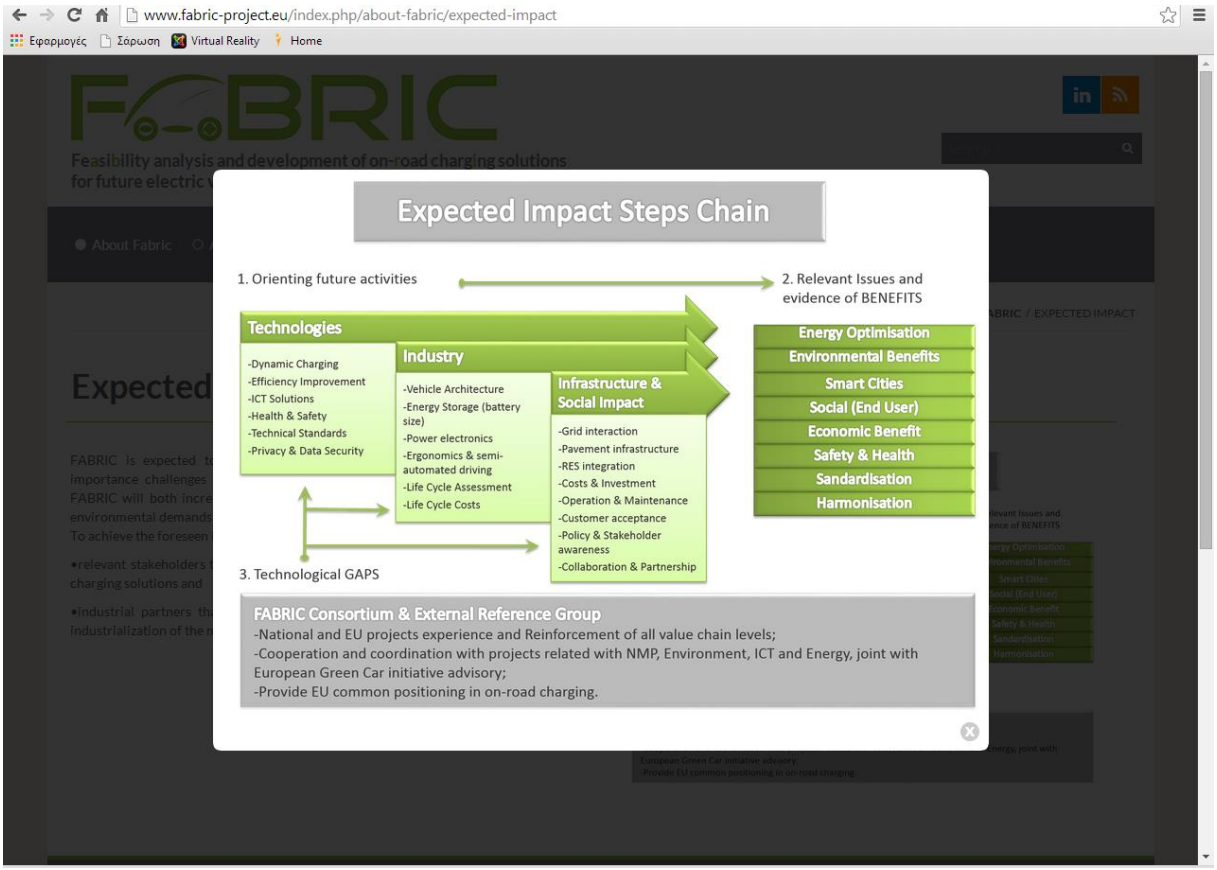

Figure 14: The Expected Impact Steps Chain graphic appears as a pop-up window.

2.3 About Electromobility

Over the next four years the FABRIC integrated project will address directly the technological feasibility, economic viability and socio-environmental sustainability of dynamic on-road charging of electric vehicles. Thus it is very important to inform the website visitors about Electromobility in general, the different types of charging electric vehicles as well as the latest advance word wild. This information is included inside the **About Electromobility** page as well as in the subpage **Latest Advances**.

Specifically by selecting the **About Electromobility** page the website visitors can learn more on Electromobility, the main objectives and the expected impact from the large adoption of EVs in general. Three different types of charging are also presented, namely static charging, stationary charging, dynamic charging. By selecting the read more links inside the boxes placed in the bottom of the **About Electromobility** page the visitors can learn more about these three types of charging.

The **About Electromobility** page will be expanded including a glossary with terms related to Electromobility. This glossary will be open to the website users and relevant stakeholders for comments so as to create a scientific based terminology for future work in the area.

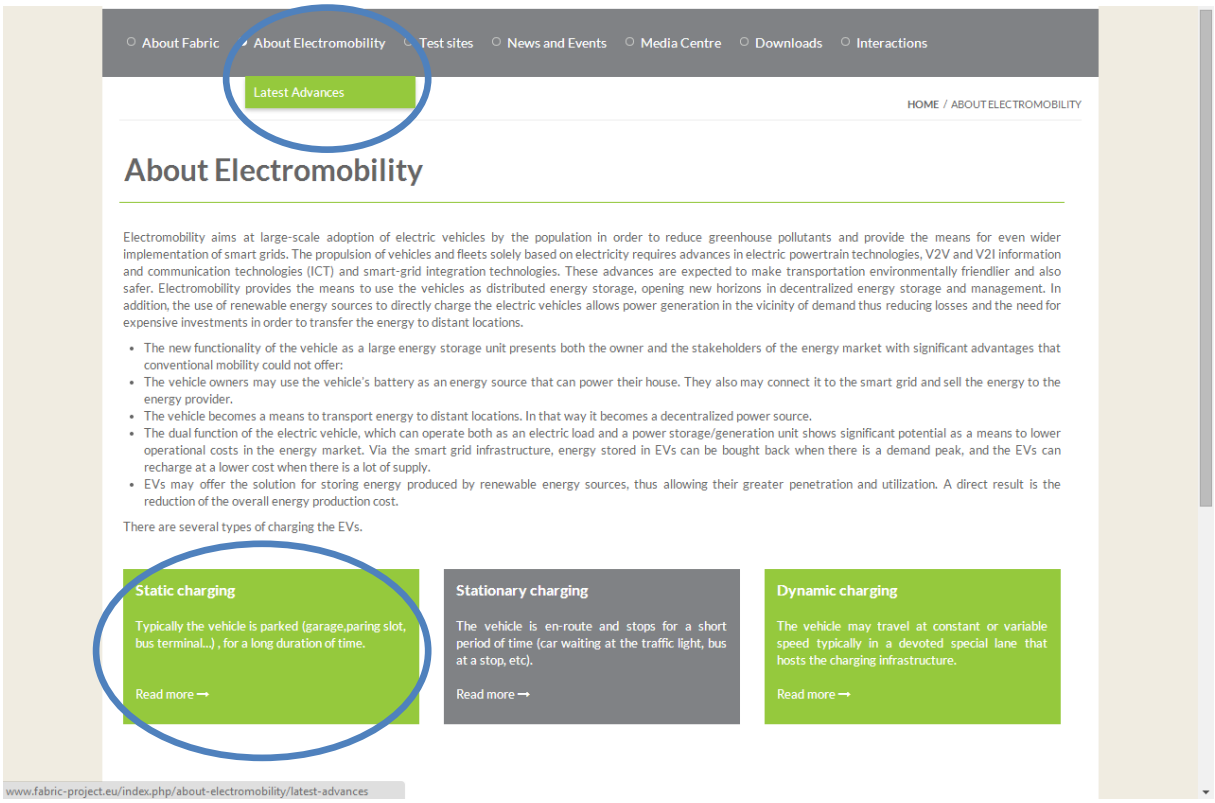

Figure 15: About Electromobility page.

2.3.1 Latest Advances

By selecting the **Latest Advances** subpage one can learn more about the different Electromobility penetration levels to Japan, Europe and USA transportation markets. The subpage contains two other sections placed in the bottom as coloured boxes: the **International Context** Section and the **Charging Systems** section. Inside the **International context** section the Electromobility R&D initiatives underway around the world are described focusing on the latest advances in the European continent, North America and Asia (Figure 16). By selecting the "*Read more"* link in the section entitled Charging Systems the website visitors will find an indicative list of EV static, stationary and dynamic wireless charging systems (inductive and conductive) that are currently in various research, development and

deployment stages. This section also includes respective links where these technologies are described.

Concerning the content of the whole Latest Advances subpage this will be constantly updated including more technologies as well as related photos and videos.

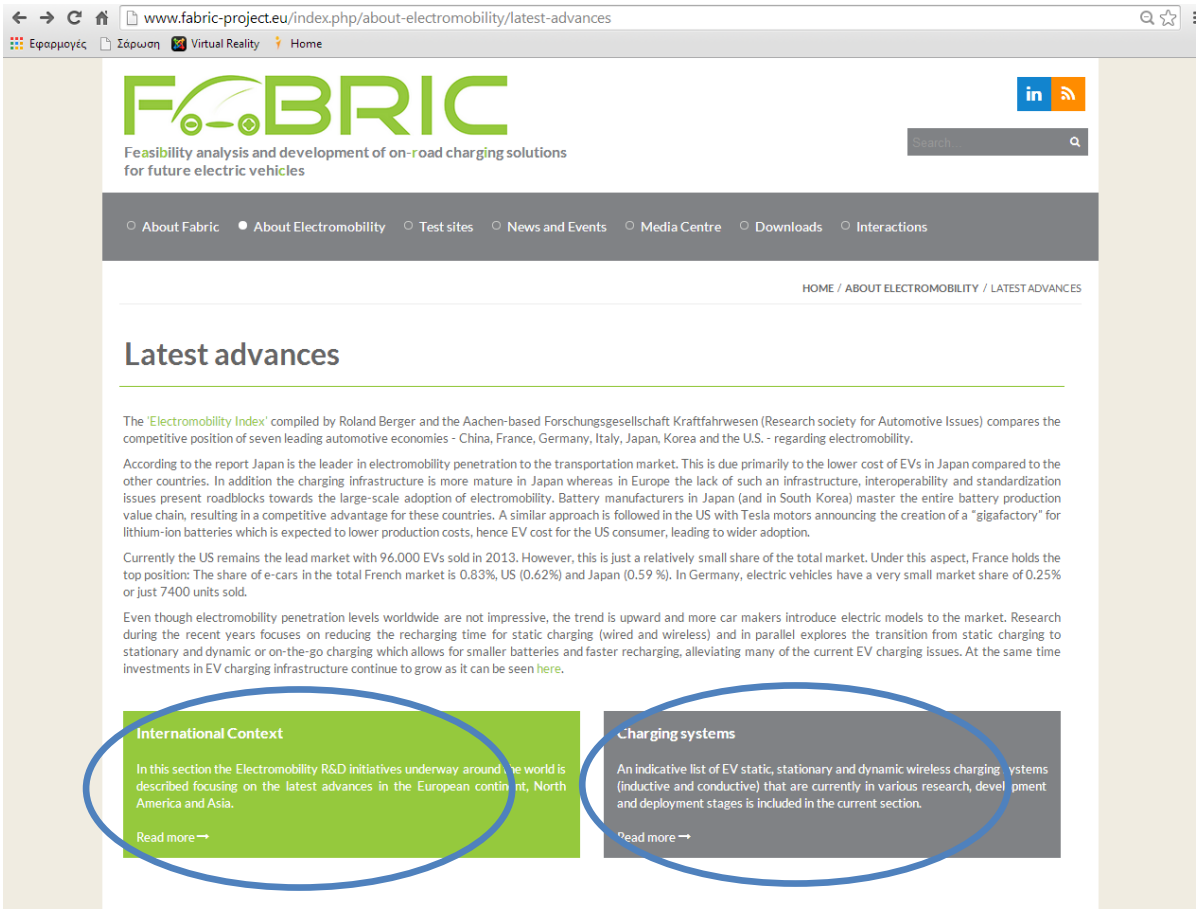

Figure 16: Latest Advances page.

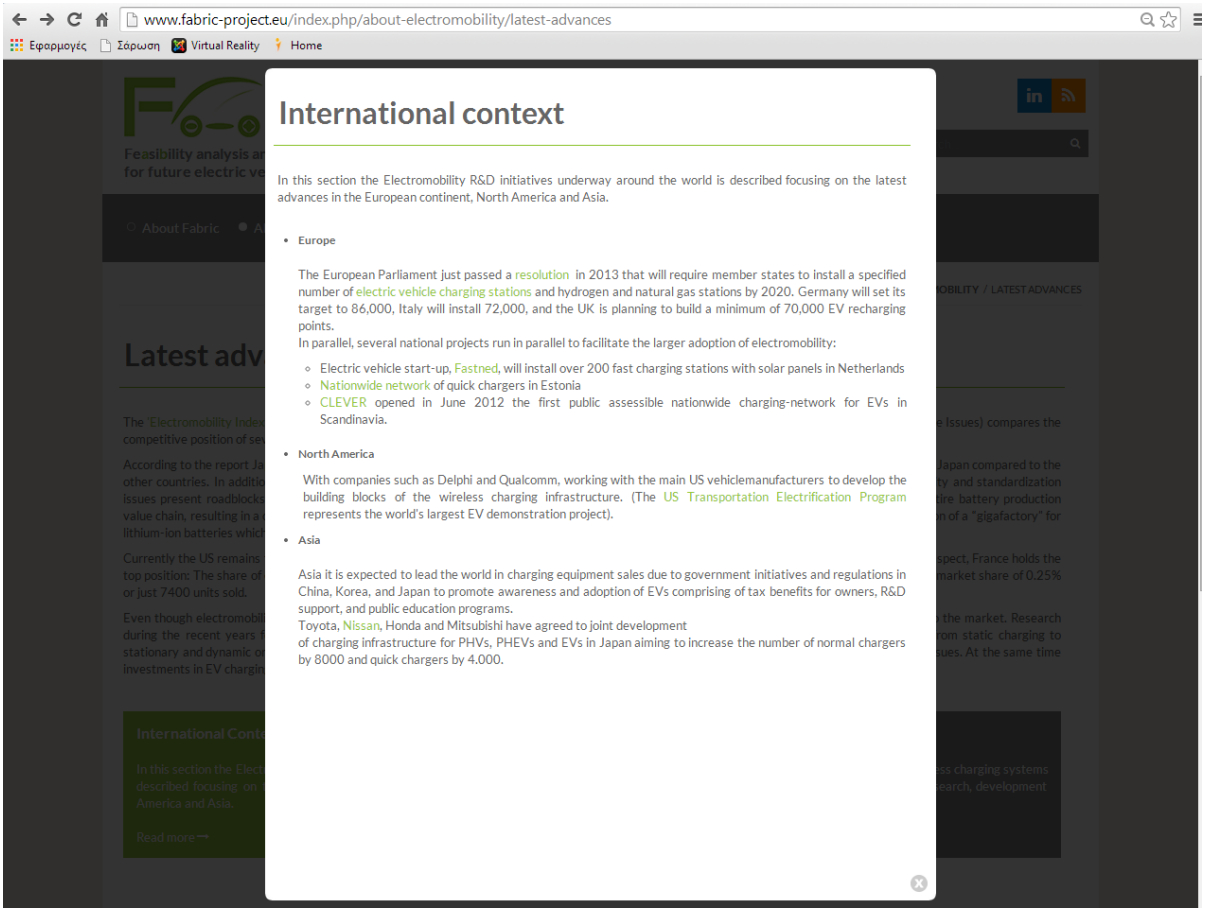

Figure 17: International context section.

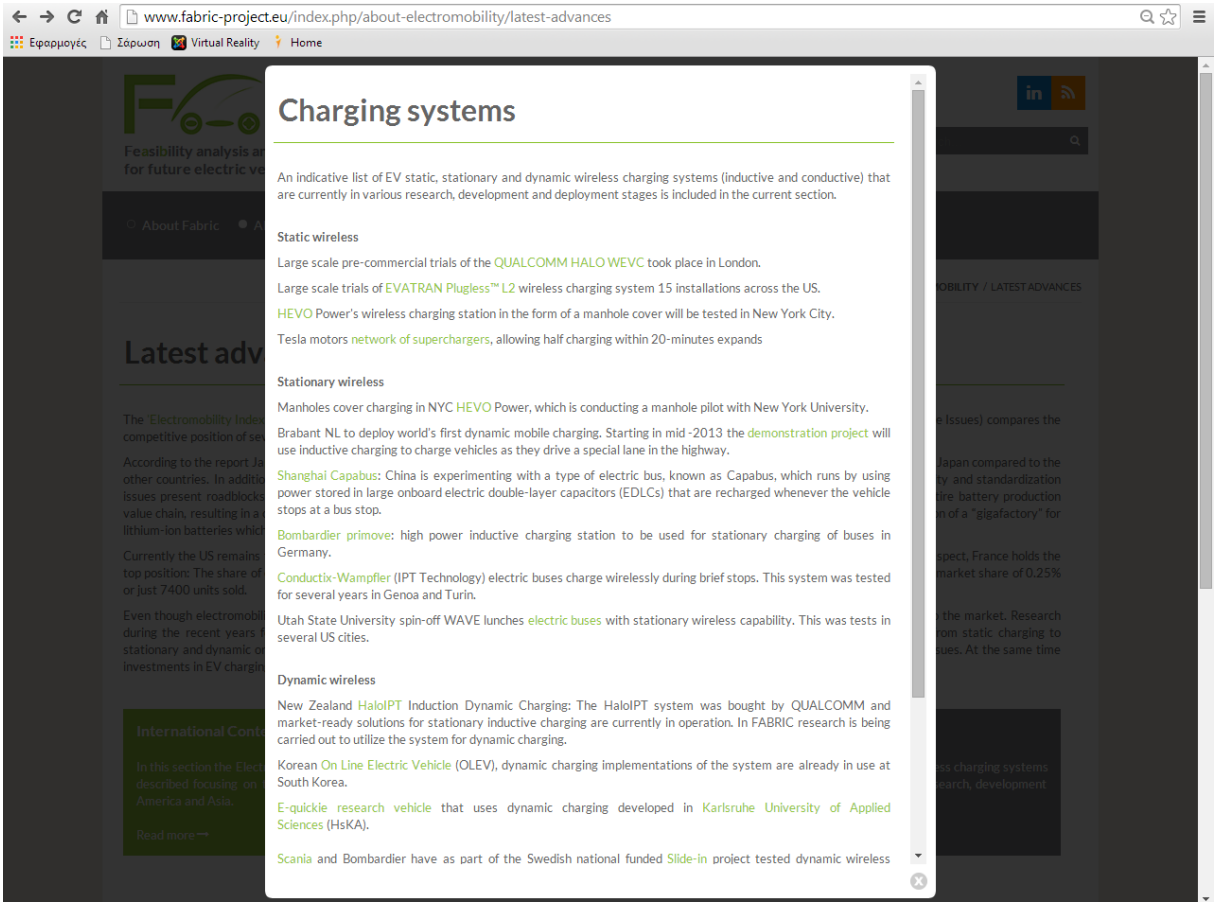

Figure 18: Charging Systems section.

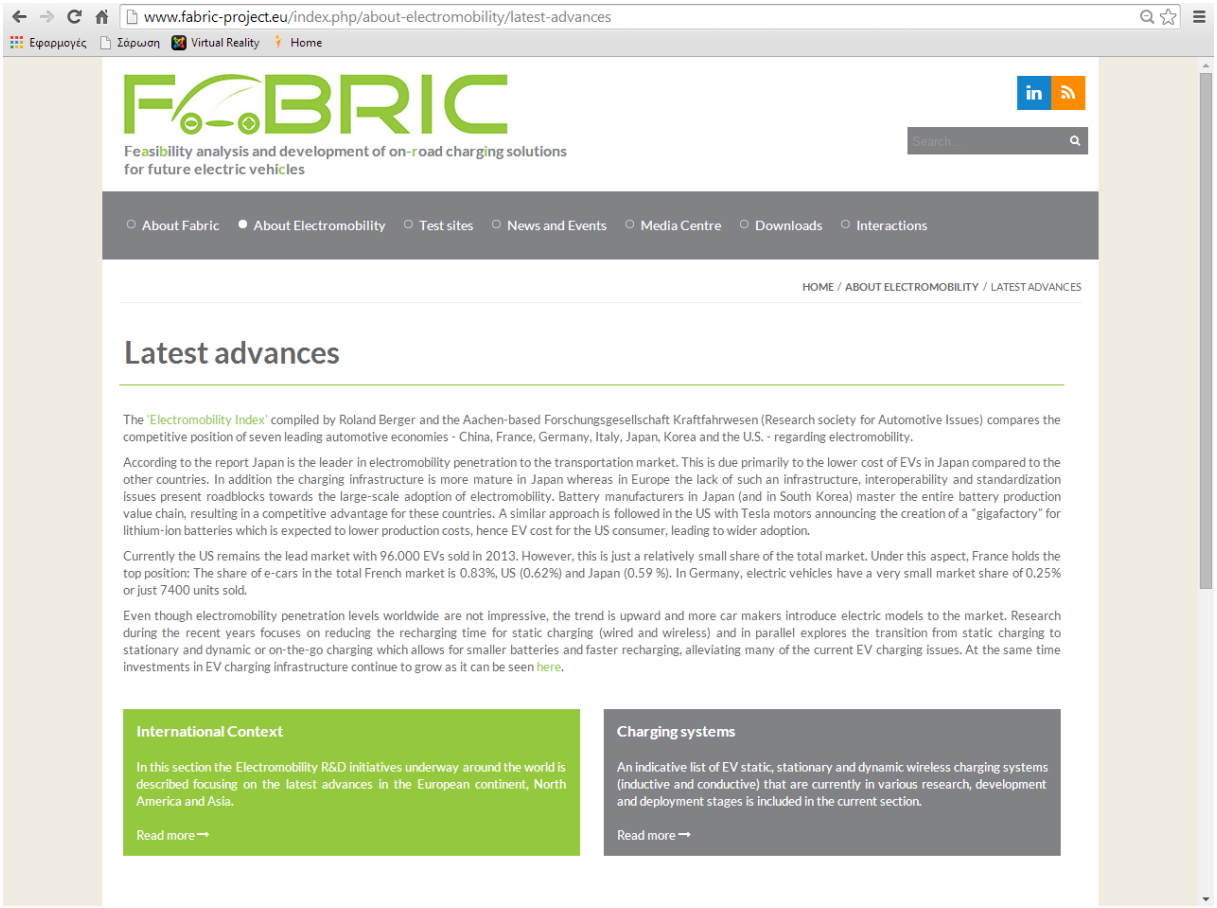

Figure 19: Latest Advances subpage.

2.4 Test sites

FABRIC targets various types of vehicles, including passenger cars, light weight duty vehicles and heavy vehicles and buses. In the framework of SP4, appropriate charging solutions developed in SP2 and SP3 will be integrated and tested in different sites, covering an extensive part of Europe from Italy in the South, through France, to Sweden in the North. Furthermore, the required grid and road infrastructure interventions will be investigated and performed.

The **Test Sites** page provides initial information on the SP4 activities and consists of three different subpages, one for each of the FABRIC tests sites (Figure 19). These subpages provide a short overview of the already existing facilities in the three FABRIC sites. The subpages will be updated by the end of the 1st project phase when the final design, specifications and architecture per test site will be defined.

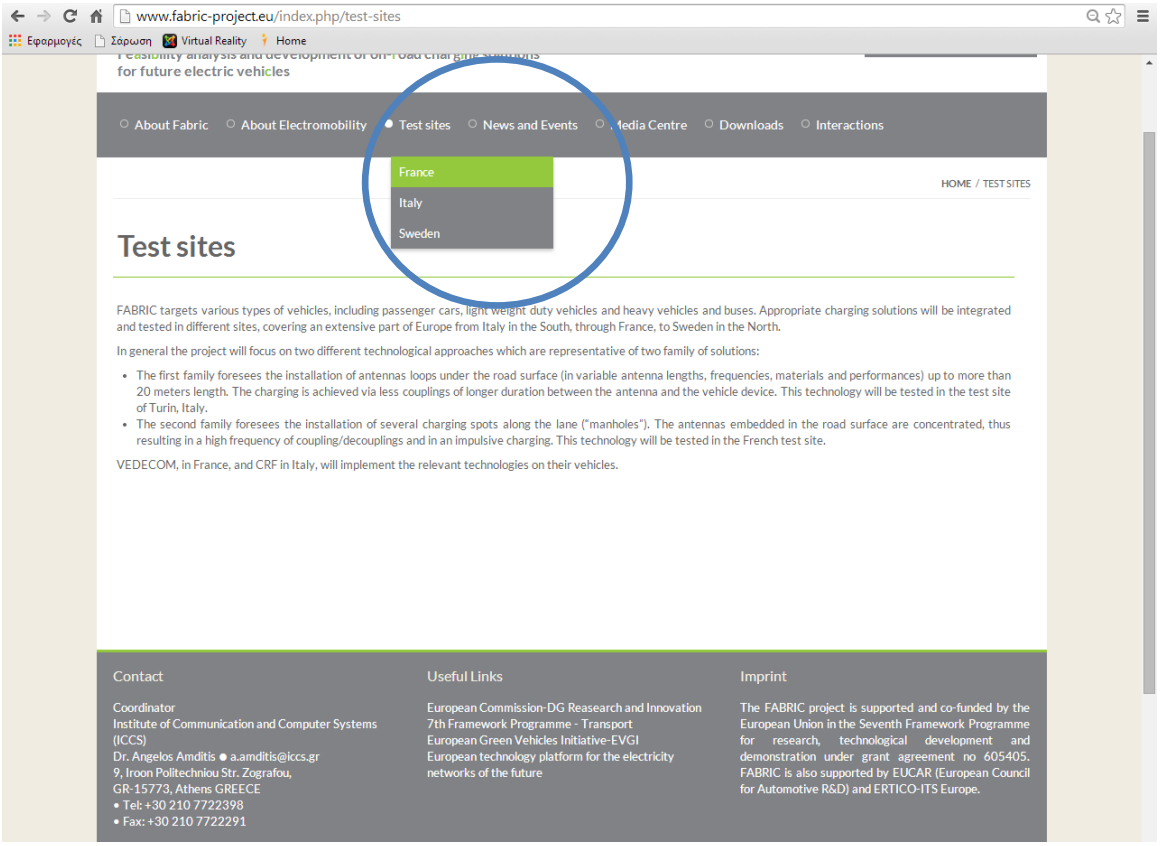

Figure 20: Test Sites page.

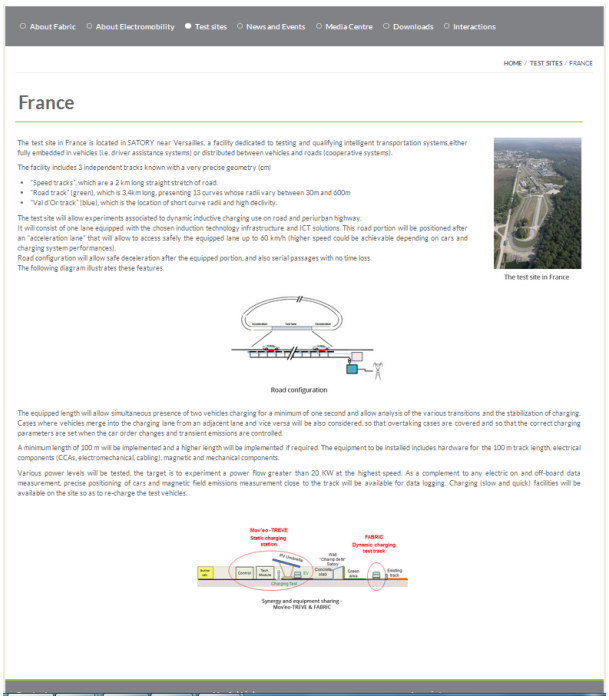

Figure 21: Subpage providing information about the French test site.

Figure 22: Subpage providing information about the Italian test site.

Figure 23: Subpage providing information about the Swedish test site.

2.5 News and Events

The main purpose of this page is to keep the visitors of the website up to date concerning all the news related to the project, such as project meetings, workshops, seminars, events and conferences (Figure 23). The **News and Events** page consists of three different subpages namely **News**, **Past Events** and **Future events**. The different subpages will be continuously updated until the end of the project runtime.

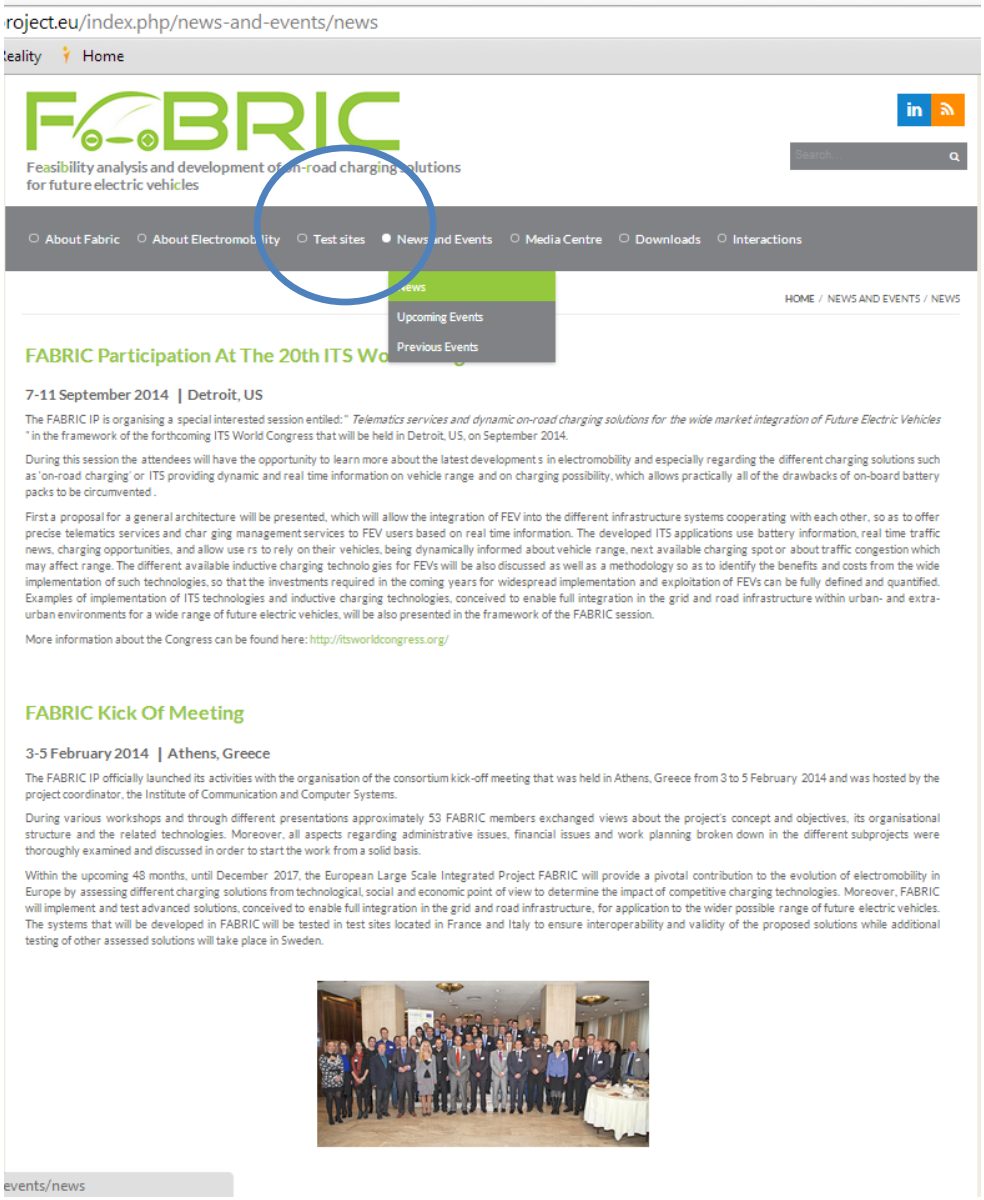

Figure 24: News and Events page.

2.6 Media Centre page

This page comprises the following subpages:

- Press Releases
- Press Clipping
- Video
- Photo Gallery

In these subpages the FABRIC press releases as well as related announcements to the press will be listed while all project videos and photos will be available to the website users.

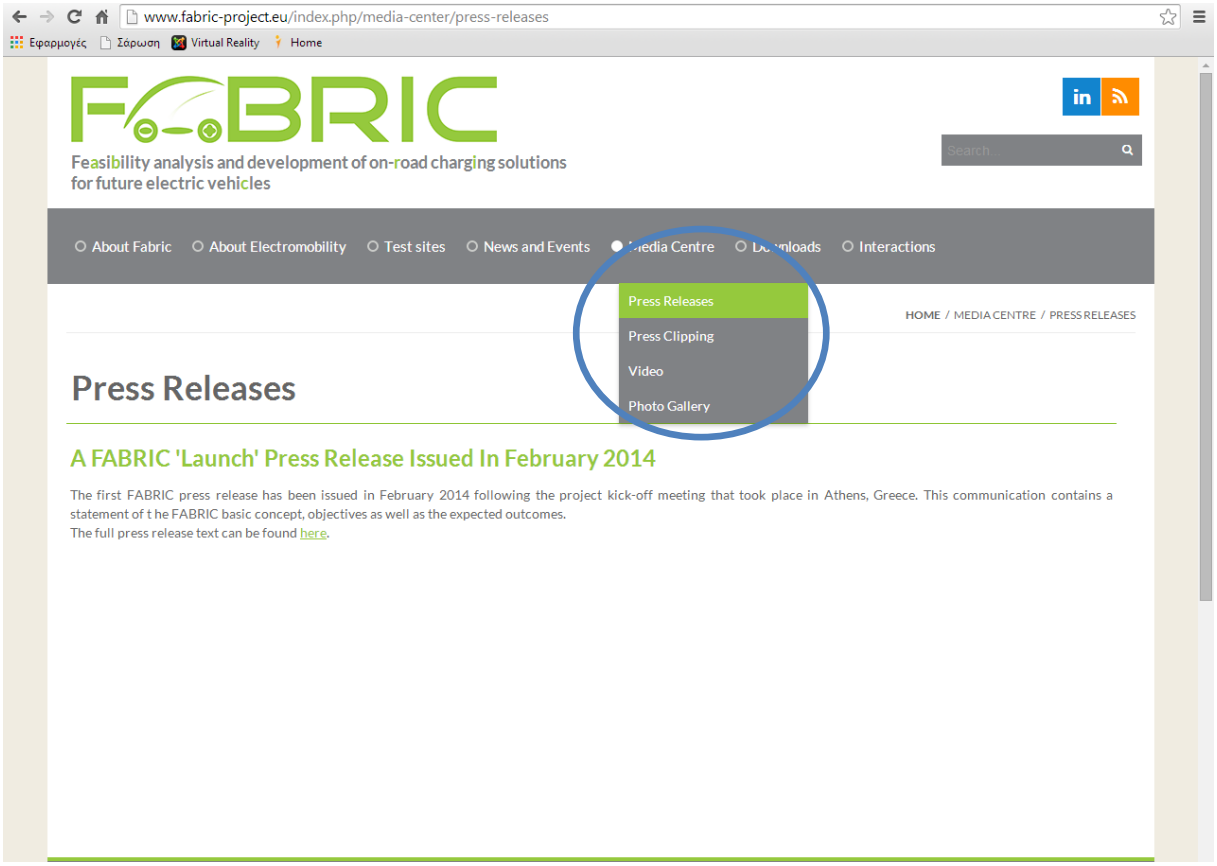

Figure 25: Media Centre page.

2.7 Downloads

This page includes four different subpages where project public documents like deliverables, conference presentations and produced dissemination material will be available for

download. Especially for project deliverables, the public ones as well as the executive summaries of the restricted ones will be included in the respective subpage.

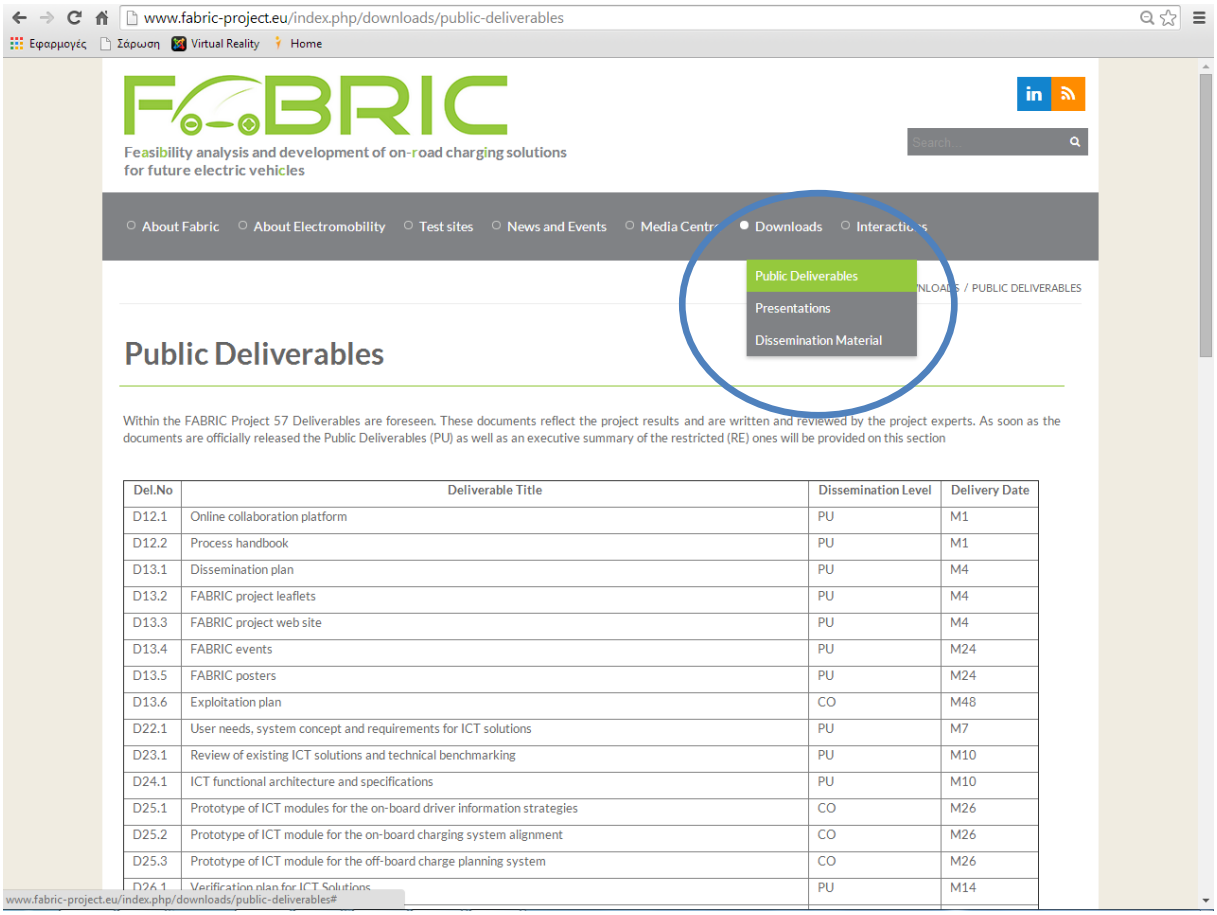

Figure 26: Downloads submenu and Public Deliverables section.

2.8 Interactions

In this page links to related organisations and other European R& D initiatives will be included. This page will be constantly updated during the whole project duration.

Figure 27: Interactions.

3. CONTENT MANAGEMENT

The content of the FABRIC website can be easily updated using a web browser. In order to achieve that, an administrator account is required. Those users who have administrator rights will be able to access website content through the following link: http://www.fabric-project.eu/administrator by entering their credentials (User name and Password). Only Evi Brousta from ICCS, as the dissemination manager of the project, has the access rights of the administrator in order to update website's contents.

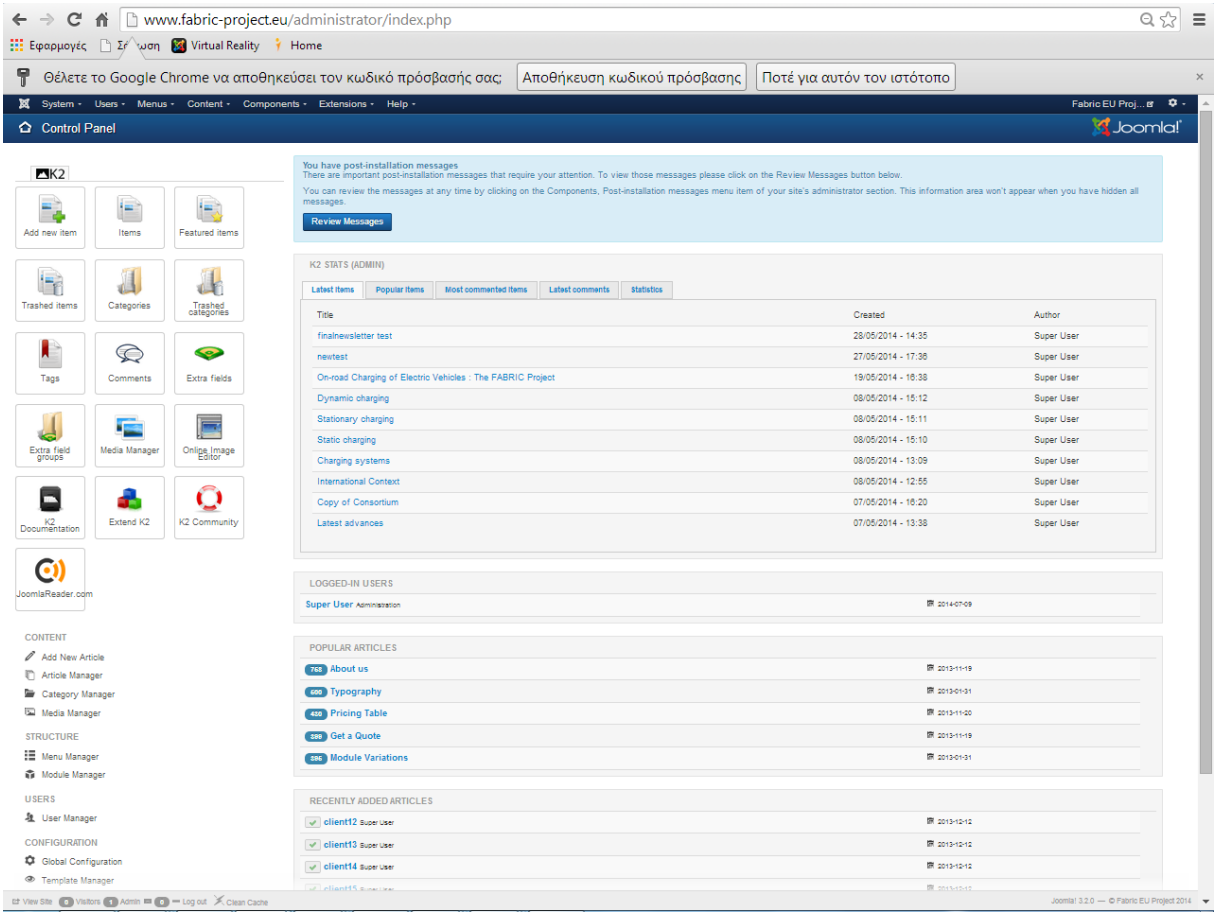

Figure 28: FABRIC content management webpage.

4. CONCLUSIONS

The World Wide Web has become a major information channel. This success is explained by the variety and multitude of information it makes available to a wide number of people at any time with a few clicks of a mouse. Thus, the FABRIC project has put a major effort towards the development of the project website, which is already online.

The website has been built so as to be attractive and interesting to both experts and non-experts visitors and aims to provide a concise overview of all latest technological developments in the area of dynamic on-road charging of electric vehicles. Moreover, it was designed in consistency with the already produced graphical identity of the project.

The website contains all information regarding the FABRIC objectives, methodology and expected results, significant achievements, technology news, consortium contacts, as well as all project public documents (deliverables, presentations, scientific publications etc.) serving the purposes of the WP1.3 activities, namely dissemination and diffusion of project information and results to a wide audience.

The website, as one of the main dissemination channels of the project will be continuously updated by the Dissemination Manager with latest information, public documents etc. even after the project end. The maintenance of the project website after the project end is one of the most important activities of WP1.3 for the diffusion of the project main achievements to the general public and the experts communities. In addition, all project contact details will be available for interested organisations and initiatives to keep in touch with the project consortium.