iQonic

IQONIC

Innovative strategies, sensing and process chains for increased Quality, re-configurability, and recyclability of Manufacturing Optolectronics

Deliverable

D9.1 Project Website

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DISCLAIMER

The sole responsibility for the content of this publication lies with the iQonic project and in no way reflects the views of the European Union.

EXECUTIVE SUMMARY / ABSTRACT

The iQonic website is primarily intended as a window to disseminate the project purpose, strategies, activities and the outcomes of the research. Describing what the plans of the project consist in and how the funding provided by the EU are used is not the only objective of the website. Indeed, it should also act as an aggregator of news and events that are related to the topic of optoelectronic parts manufacturing, which may raise the interest of the visitors and increase the public knowledge of this matter.

As one of the communication tool, the website will be constantly updated with project progress information throughout the iQonic duration as well as to include all developed dissemination instruments/assets.

SCOPE

The present document illustrates the purpose of the iQonic project website, its main structure, contents, and the editorial process behind it.

1 The iQonic website description

The website (http://www.iqonic-h2020.eu/) has its home page that includes five main sections that can be accessed by the menu on the top of the page: Project, Partners, News & Events, Multimedia and Contacts.

On the far left of the home page there is a pop-up menu that includes the template to be filled in case of subscription to the newsletter of iQonic project.

1.1 Homepage

The homepage is intended as a showcase of the project that should invite the user to deepen his knowledge of iQonic project, therefore it is organized in several sections all directly linked to the other website pages.

The first part of the page shows a carousel of some emotional pictures that are related to the optoelectronic parts manufacturing.

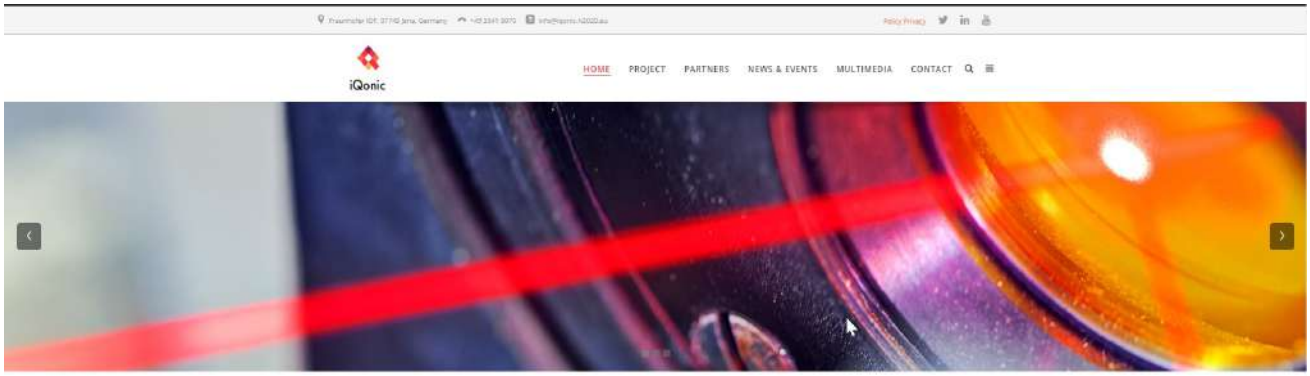

Figure 1: Home Page Slider

Scrolling down the page there is a brief description of the project. By clicking on the sentence "*Learn more on iQonic*" the user is redirected to the page "*Project*", which is entirely dedicated to the project description.

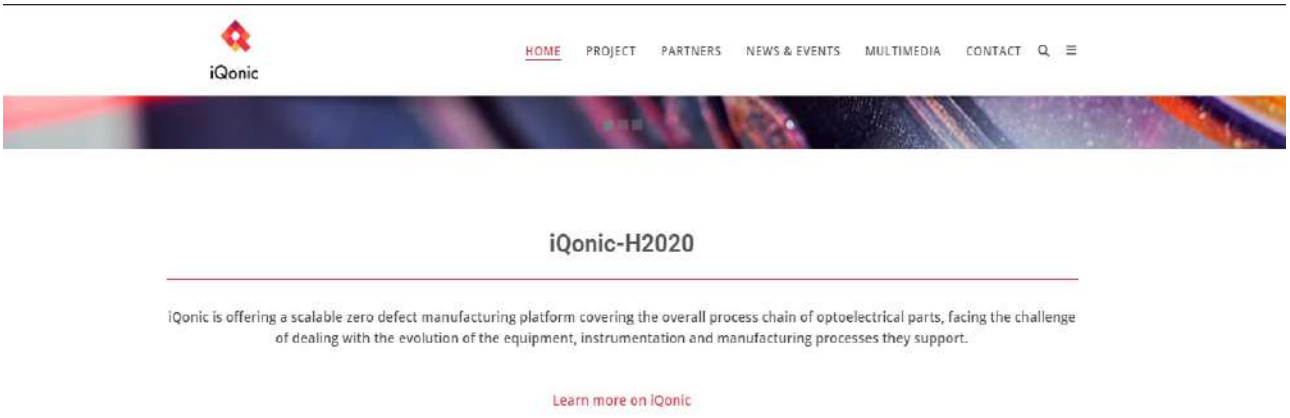

Figure 2: Home Page, Project Part

Following the project description, there is a section dedicated to the four use cases of the project. Each demonstrator is represented by a picture that should recall the topic of the case study.

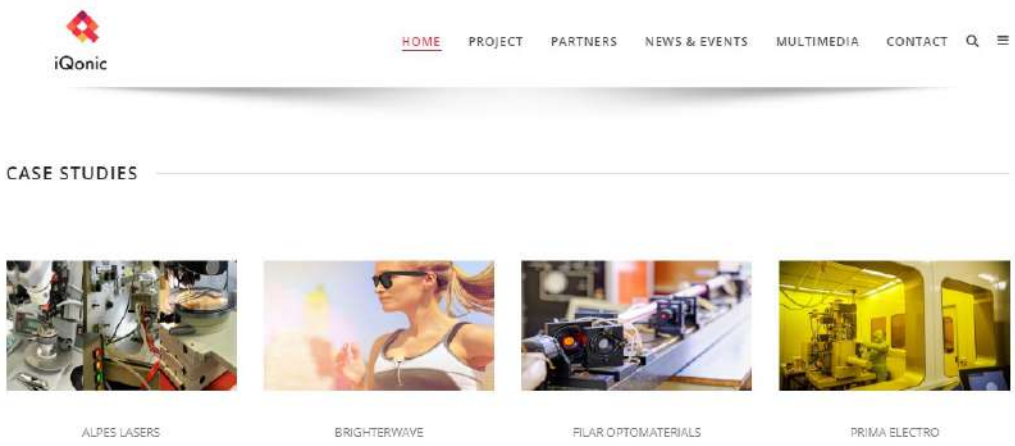

Figure 3: Home Page, Case Studies Part

Moving towards the bottom, the home page is dedicated to some communication issues. It shows the recent posts published within the website but also the recent tweets of iQonic's Twitter account. The section is linked to the page "*News & Events*". By clicking on the Twitter icon, the project's Twitter page will be opened in a new window, so that the users can visualize the latest posts regarding the achievements and the upcoming events of the project.

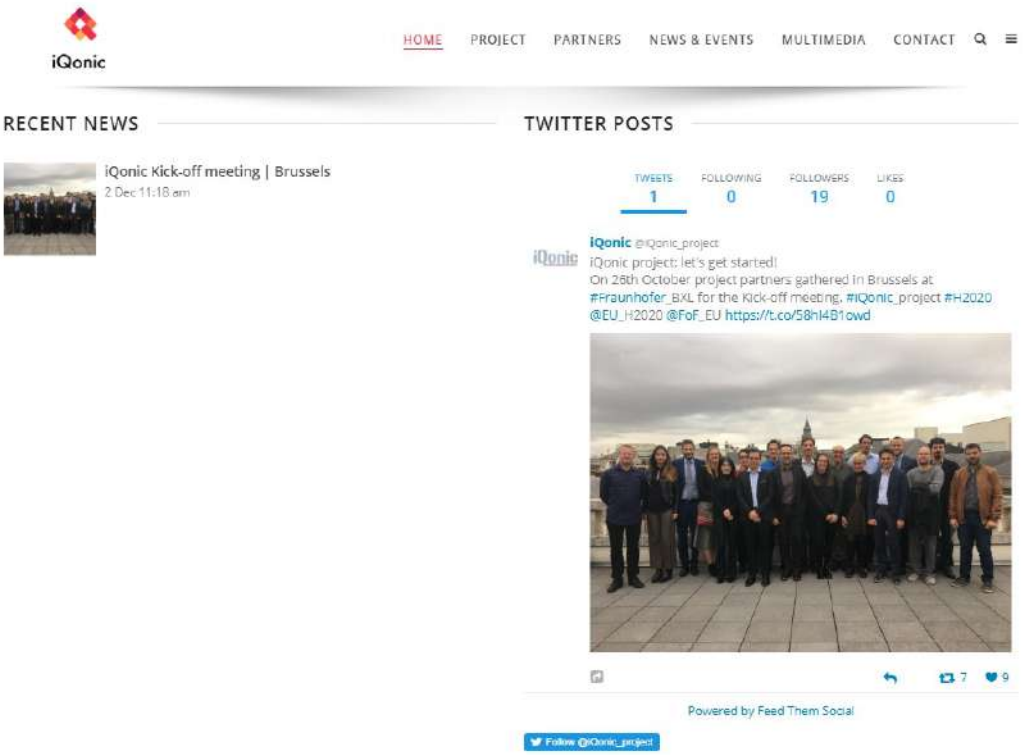

Figure 4: Home Page, News and Posts part

Right below the communication part of the page, there is a carousel where the Logo of the partners continuously rotate.

Figure 5: Home Page, Partners Part

The bottom of the page includes the form for iQonic newsletter subscription that can also be accessed from the button on the far left of the top of the page.

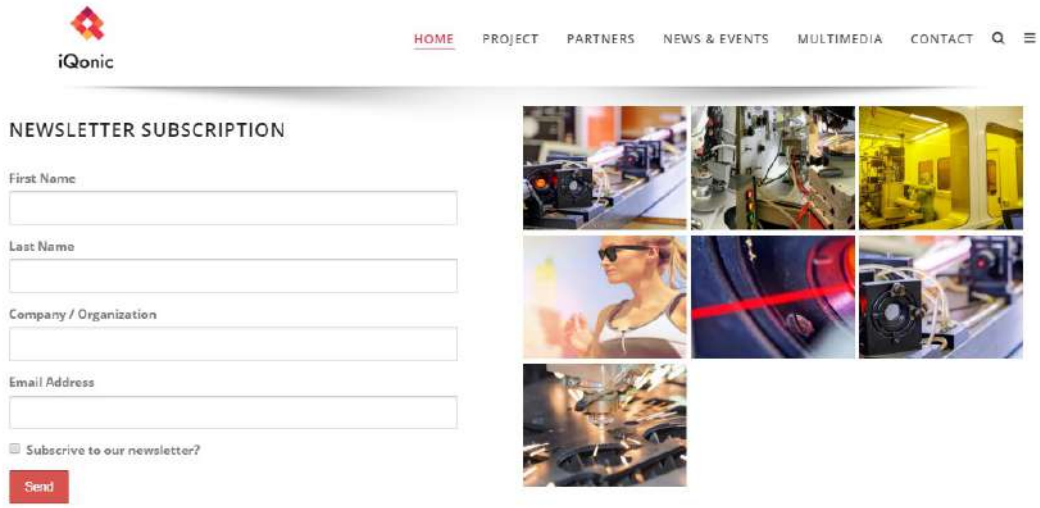

Figure 6: Home Page, Bottom part and Footer

The European emblem and the disclaimer to acknowledge the support received under H2020 programme is shown in the footer of the homepage. The footer of the homepage is the same of all the other pages of the project and contains the link to the social media accounts, the link to the recent posts, the latest tweets and contacts page.

1.2 Project

The "Project" page is accessible from both the Menu bar on the top of each page and the link "*Learn more on iQonic*" that follows the brief description of the project in the Home Page.

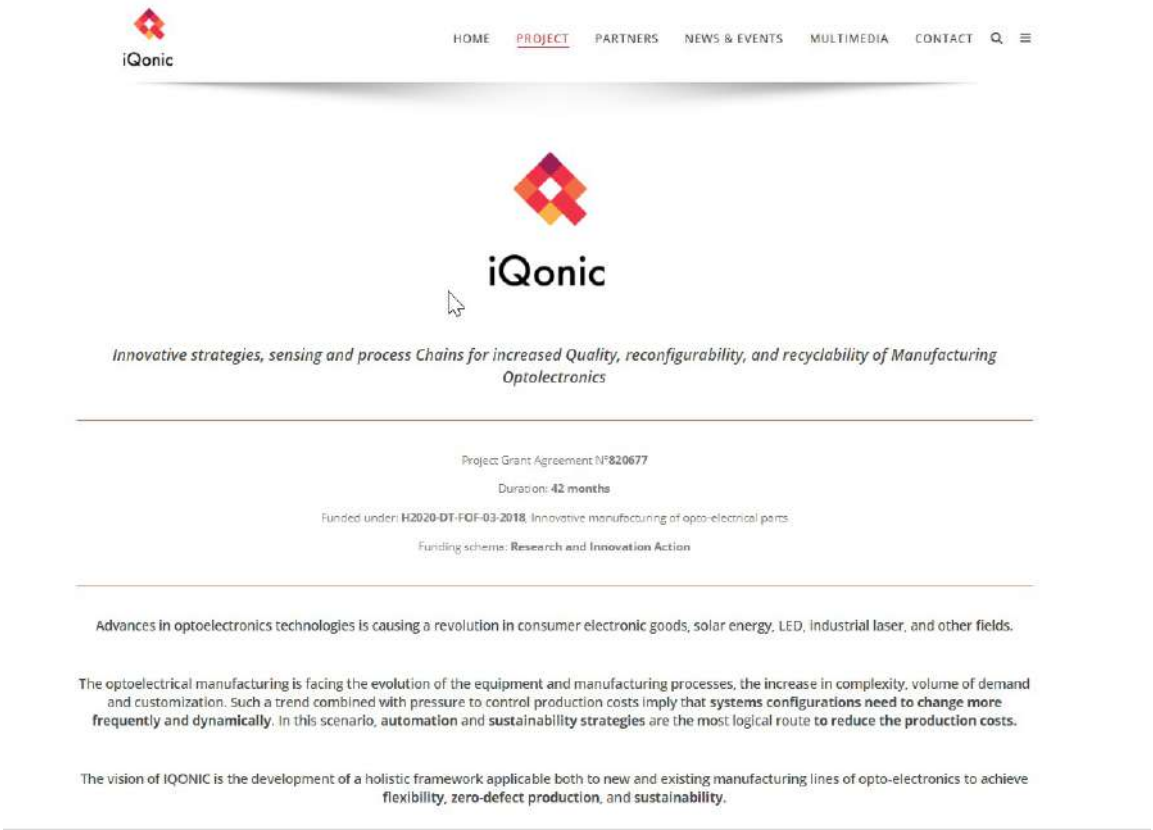

Figure 7: Project Page, iQonic Description

The aim of this page is to make a deeper overview of iQonic Project: the technological and economical context where iQonic is placed, the vision and aim of the project and solution that the project is willing to offer. The eight strategies that the project will adopt to reach its objectives are also listed and described within this page.

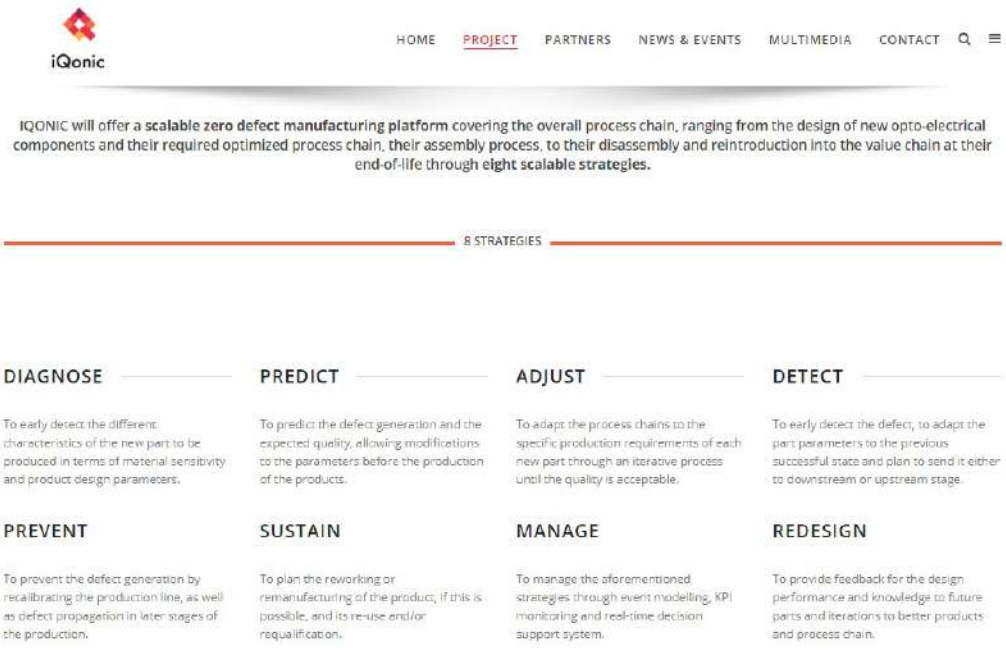

Figure 8: Project Page, The eight strategies

By clicking "Project" on the menu bar on the top of the page a drop-down menu will appear showing two more pages "Work Structure" and "Case Studies".

Figure 9: Project drop-down menu

1.2.1 Work structure

The page is dedicated to the description of the Work Breakdown Structure of the project. The nine work packages and the relative objectives are listed.

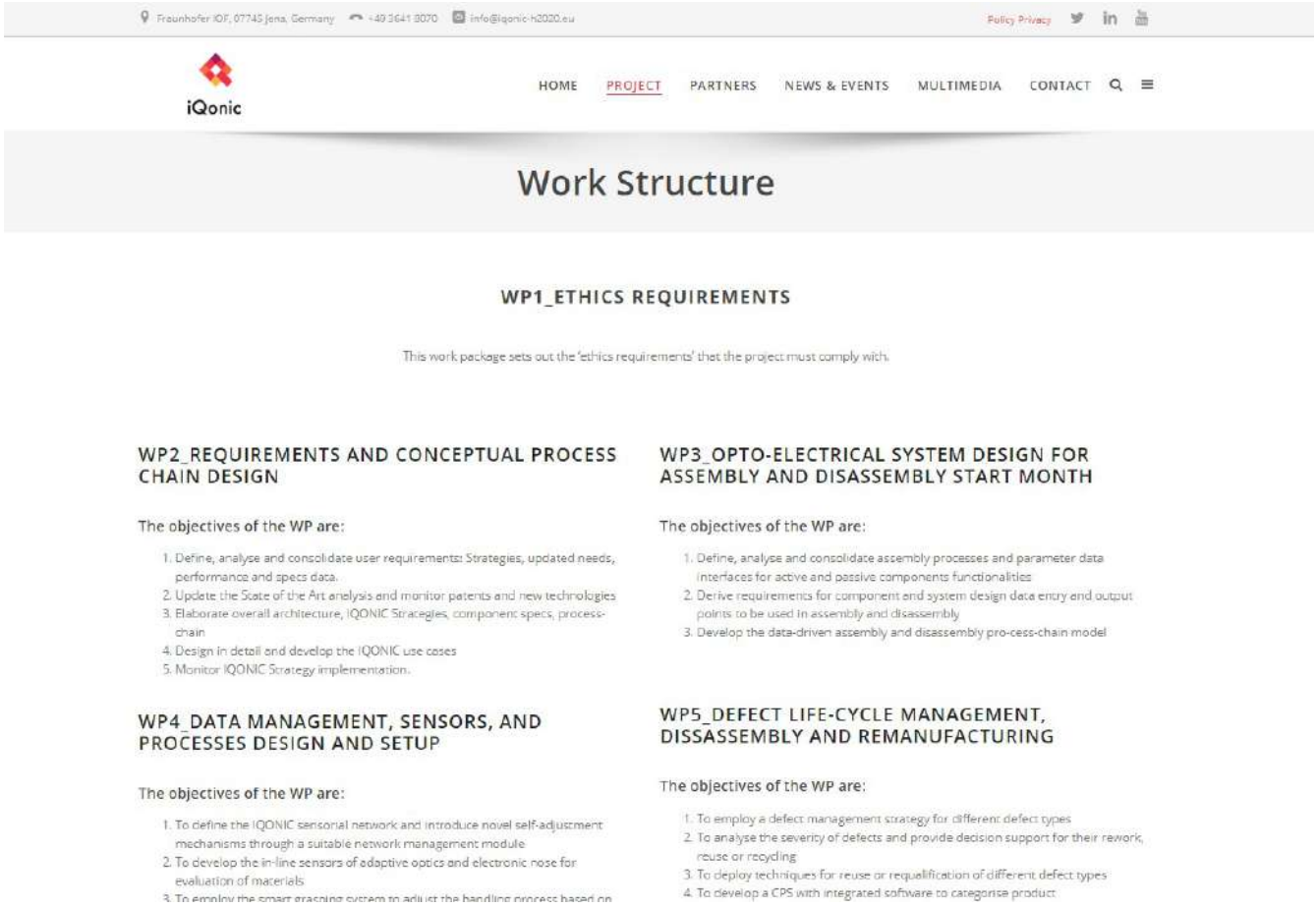

Figure 10: Work Structure Page

1.2.2 Case studies

This page is accessible from both the Menu bar on the top of each page by selecting “Project” and the Home Page of the website, by clicking on one of the case studies pictures.

The four iQonic’s case studies are here listed and described.

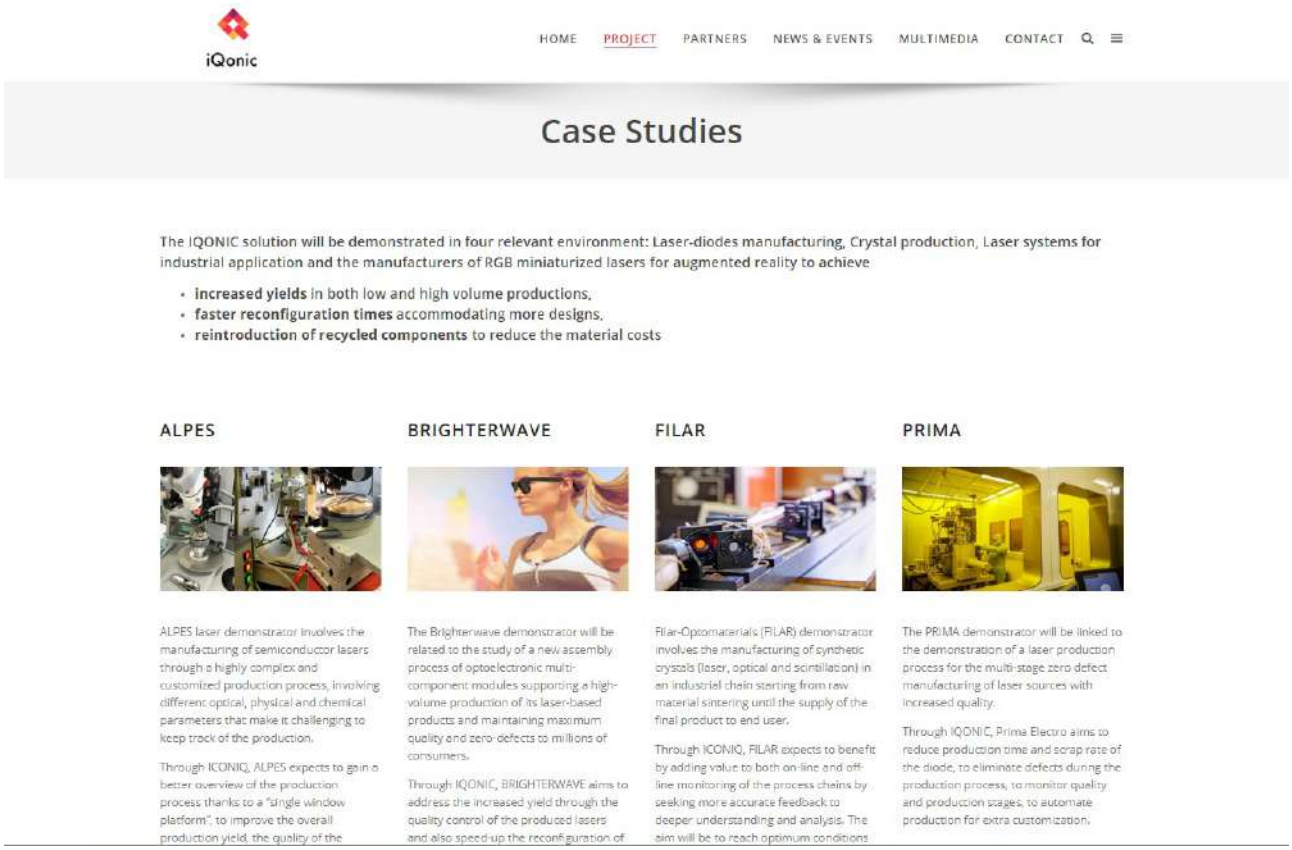

Figure 11: Case Studies Page

1.3 Partners

This page is accessible form the Menu bar on the top of each page.

A grid with the logos of each project partner is shown.

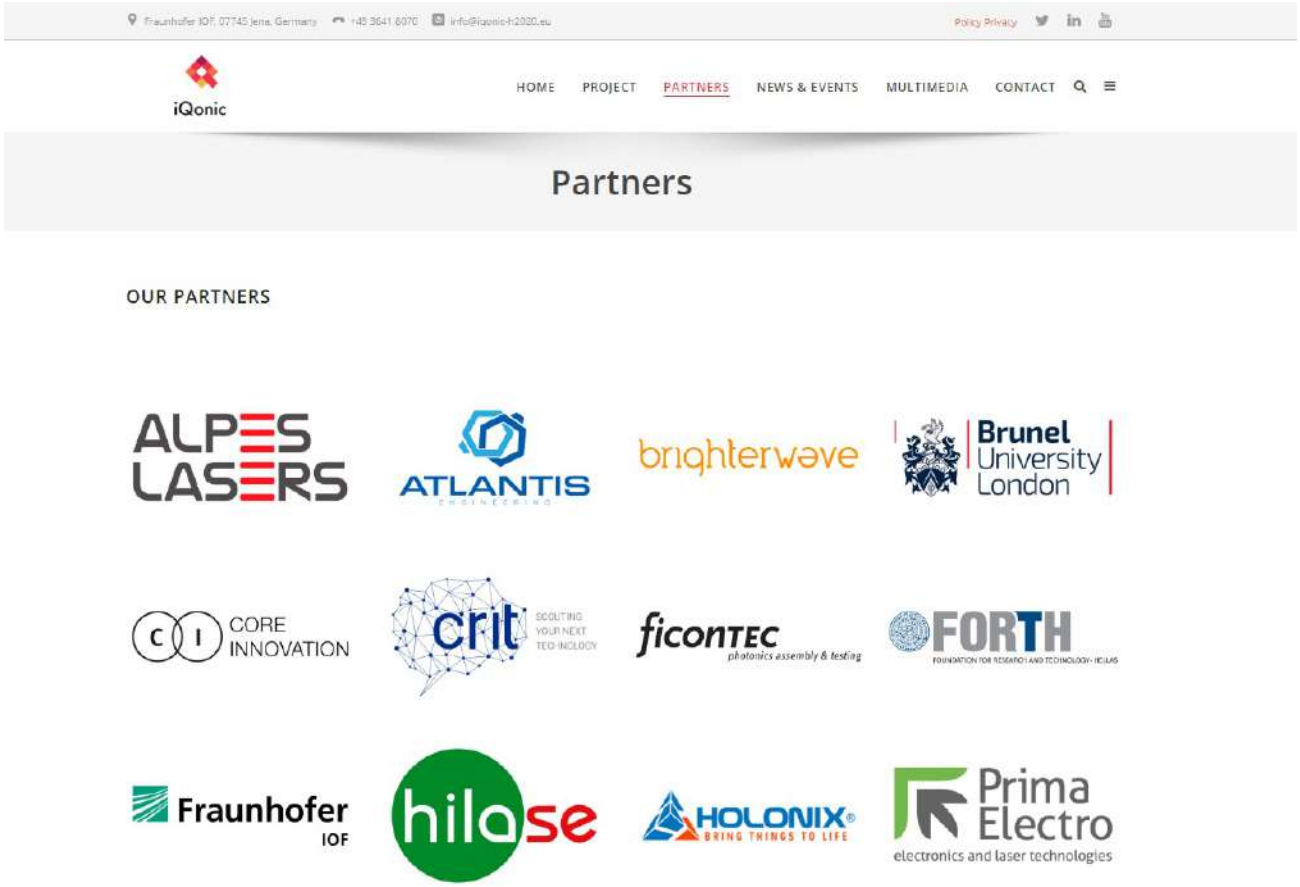

Figure 12: Partners Page

When clicking on the logo of each partner, a pop-up window appears showing the logo, a short description of the partner and a link to the website of the organization.

Figure 13: Partners Pop-up Window

The following pictures represent the project partners listed in the page.

Figure 14: Alpes Laser

Figure 15: Atlantis

Figure 16: Brighterwave

Figure 17: Brunel University London

CORE INNOVATION aims at giving people the opportunity and ability to reach their full potential. In IQONIC, CORE will develop custom machine learning models to predict machine anomalies and performance to achieve zero defect manufacturing. In addition, CORE will lead the innovation management activities to reach the market on time and in the right fashion.

www.core-innovation.com

Figure 18: Core Innovation

CRIT is a SME innovation company belonging to 26 large manufacturing and processing industries in Emilia-Romagna, including SCM, FIAT Group, ALSTOM, Tetra Pak. CRIT addresses services both to shareholders, mostly large companies, and to their suppliers, which are mostly SMEs. The aim of CRIT is to support enterprises in innovation and technology transfer by acting as a common ground for collaborative industrial research. In addition, CRIT acts as collective technological interface among industrial actors and Research centres throughout the world. Core activities of CRIT are: management and deployment of technology transfer projects; analysis and processes of mission critical information on specific technology fields or key-players; development of collaborative innovation activities aimed at quickly starting up the adoption of new technologies.

In iQonic CRIT is Linked third party of SACMI mainly for communication and dissemination activities.

www.crit-research.it

Figure 19: Crit, Linked Third Party of SACMI

FiconTEC provides automated micro-assembly and testing solutions for the photonics industry from simple lab setups all the way up to high-volume solutions. These solutions are cutting-edge and are independent of the device material and of the specific application the device is targeting. In iQonic ficonTEC is responsible for the integration of individual developments into an automated assembly system.

www.ficontec.com

Figure 20: Ficontec

The FilarOptomaterials is a medium sized company located in TORTOLI' (OG) in the Italian island of Sardinia. Since 1997, it operates as a reliable supplier of photonic and optical materials manufacturing and supplying synthetic optical and laser crystals.

Figure 21: Filar Optomaterials

FORTH is the largest Research Institution in Greece incorporating 6 Institutes. In this project FORTH will participate with the Institute of Electronic Structure and Laser (IESL) and Ultrafast Laser Micro and Nano Processing (ULMNP) Laboratory, which is a multi-disciplinary scientific laboratory that focuses its research on fundamental and applied issues related to materials science and technology and laser interactions with matter.

www.iesl.forth.gr

Figure 22: Forth

Fraunhofer IOF in Jena conducts applied research for photonics and develops optical systems to control light from generation and manipulation to application along the full photonic process chain from design to manufacturing of custom-specific solutions and prototypes. Fraunhofer IOF is the coordinator of the iQonic project.

www.iof.fraunhofer.de

Figure 23: Fraunhofer

Figure 24: Hilase

Figure 25: Holonix

Figure 26: Politecnico di Milano

Figure 27: Prima Electro

SACMI is an international group manufacturing machines and complete plants for the Ceramics, Packaging (including Beverage and Closures&Containers), Food industries and Automation.

In IQONIC Sacmi will develop electronic olfactory systems ("electronic noses") for the detection of contaminants (mainly volatile organic compounds) on the product through the analysis of air.

www.sacmi.it

Figure 28: SACMI

SENSAP Swiss AG is an Independent Software Vendor (ISV) and Systems Integrator, providing turn-key solutions that address Internet-of-Things (IoT) solutions including CPS solution and components for automatic Data Acquisition from the production-floor, Machine Vision Quality Inspection, Systems Integrator and ISV.

SENSAP Swiss AG, as technology provider, will be working on the multisensorial data acquisition network for manufacturing opto-electrical parts and on the integration of software - hardware platforms and tools to support the interoperability of the IQONIC systems.

www.sensap.ch

Figure 29: Sensap

The Shadow Robot Company is one of UK's leading robotic developers, experts at grasping and manipulation for robotic hands. Shadow has worked with companies and researchers across the globe, looking at new ways to apply robotics technologies to solve real-world problems. They develop and sell the Dexterous Hand (recently used to advance research into AI and a key component of their new Teleoperation System) and the Modular Grasper (an essential tool for supporting industry 4.0). Shadow's role within IQONIC is to design a scalable modular robotic system for flexible handling that can be deployed to assemble and validate opto-electronic components. The system is to provide the long-duration of handling and installation of macro-scale components along with placing the components with sufficient accuracy to be deployable in optoelectronic manufacturing.

www.shadowrobot.com

Figure 30: Shadow

Figure 31: Tampere University

1.4 News & Events

The news & events section is the most dynamic content the site has. It must be always updated by posting events fully dedicated to iQonic or where the project was mentioned, meetings or conferences on predictive maintenance attended by the partners. The section is intended to attract the interest of the website visitors and to increase the public knowledge of this topic. The news will be listed with a sequence of articles containing a picture representative of the event and a short description of it.

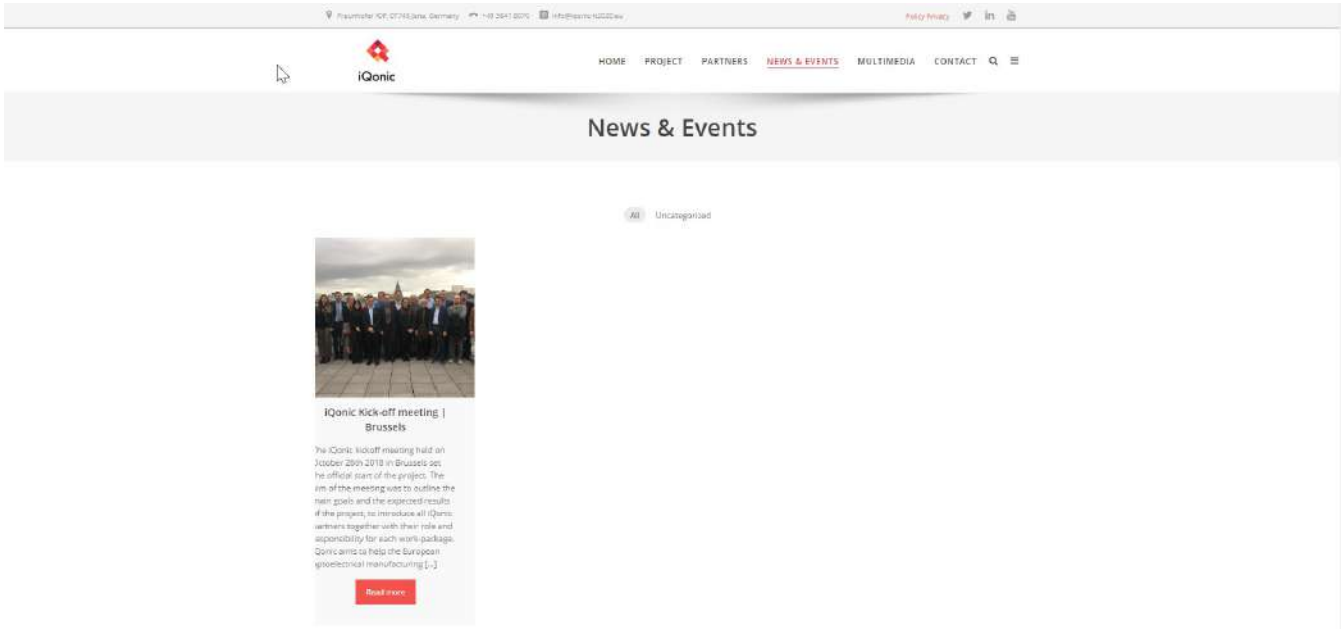

Figure 32: News and Events Page, News Preview

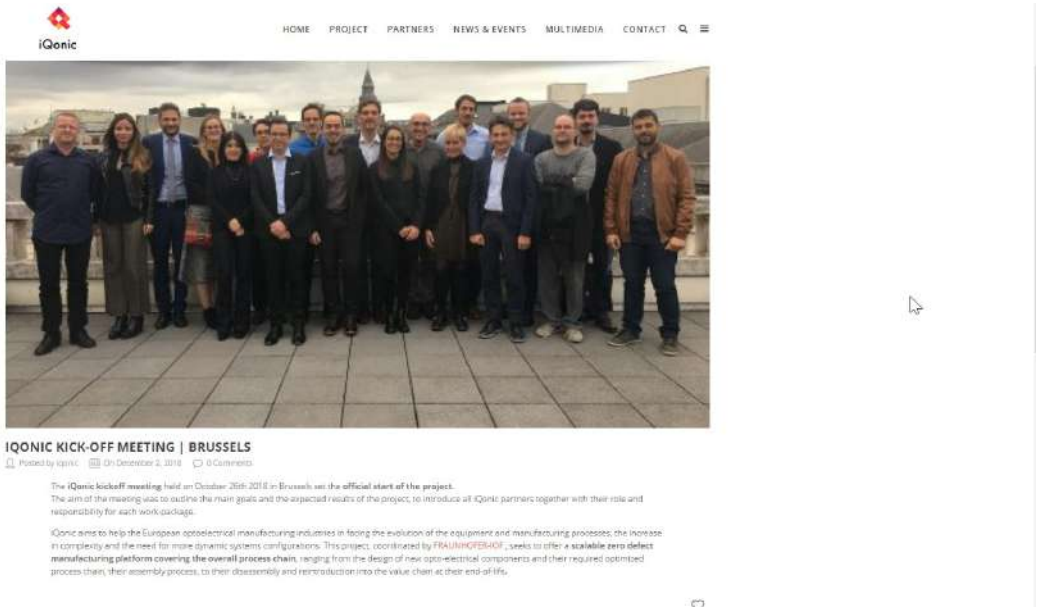

Figure 33: News and Events Page, News

1.4.1 Newsletter

The newsletters release during the project will be accessible from this page that can be reached by the drop-down menu that appears by selecting “News and Events” in the Menu bar.

1.5 Multimedia

This page is dedicated to the collection of all the pictures taken during the project activities. The photo gallery will be populated with pictures of the meetings, visits, workshops, conferences and trade fairs attended.

The drop-down menu shows also the possibility to display the videos of the project.

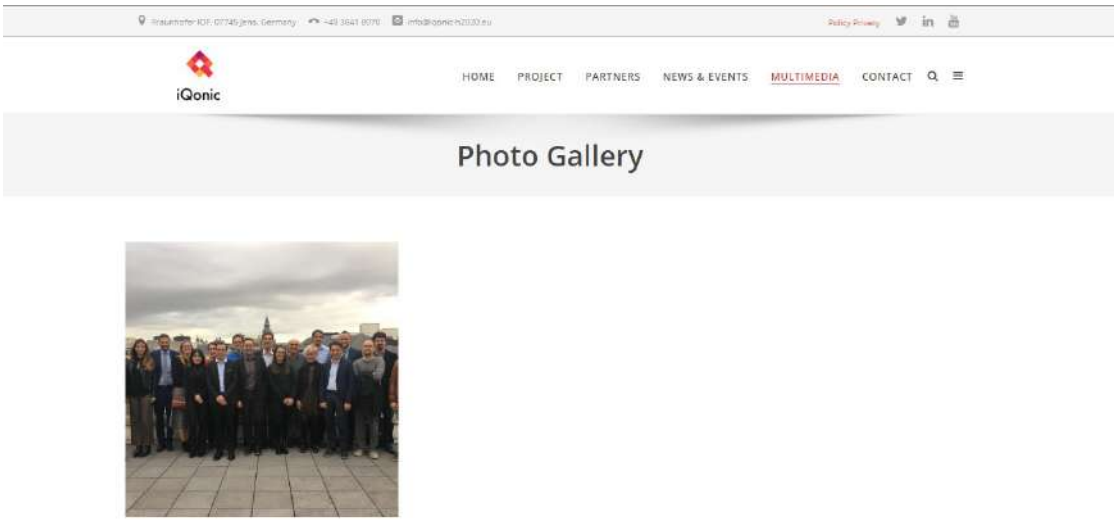

Figure 34: Multimedia Page, Photo Gallery

1.6 Contact

The page includes the reference contacts for the project and the form to be filled in to make requests.

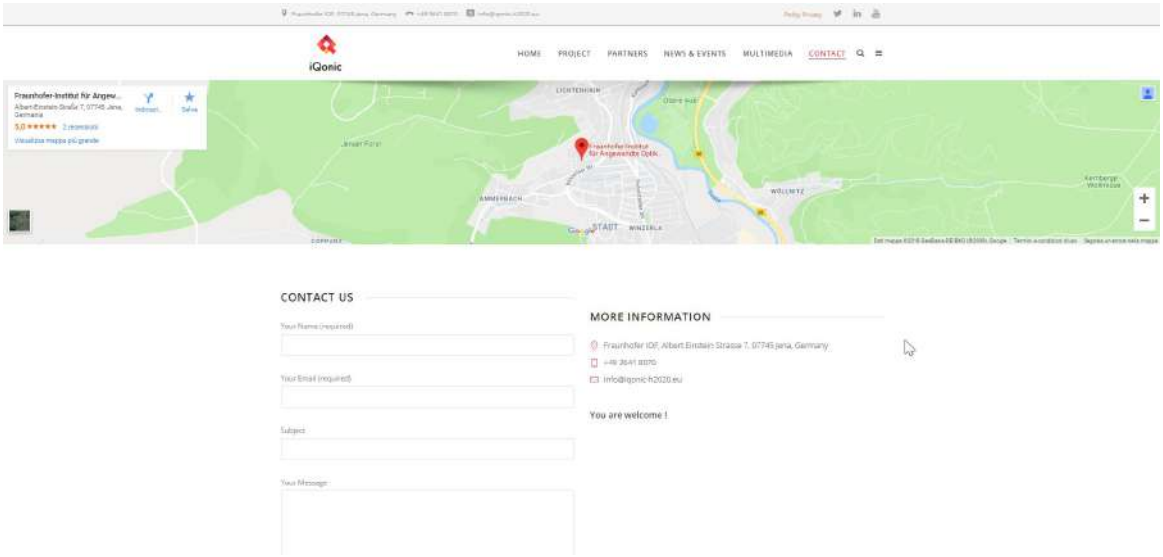

Figure 35: Contacts Page

2 Website Dissemination

Each partner is required to give the highest visibility to the website, linking it to their institutional websites, disseminating it among their networks and referring to it in any communication concerning the project.

The iQonic website will be indicated in all communication templates circulated by the dissemination.

The information on the website will grow with the proceedings of the project. Each event and achievement will be disseminated to the public through the website and the social networks.

iQonic is provided with a LinkedIn and Twitter account, at the bottom of each page of the website the visitor can access the iQonic social networks accounts.

3 Conclusions

This deliverable assures the explanations for the website development and detailed description of its present shape. Furthermore, the plan for project partners and website visitors has been introduced within this file. In order to serve communication goals and follow communication plan of the iQonic project this website will be continuously updated providing the website visibility that will take place as the project involves.

4 Annex I. Table of figures