



## **Green Technologies for 5/6G Service-Based Architecture**

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Coordinator	CONSORZIO NAZIONALE INTERUNIVERSITARIO PER LE TELECOMUNICAZIONI (CNIT)

## **Deliverable D6.1**

### **6Green Public Website**

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v0.4	26/06/2023	Internal review comments addressed.	F. Davoli, R. Rapuzzi (CNIT)
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## Glossary of terms and abbreviations used

Abbreviation / Term	Description
<b>5G</b>	5 <sup>th</sup> Generation of radio mobile networks
<b>6G</b>	6 <sup>th</sup> Generation of radio mobile networks
<b>AI</b>	Artificial Intelligence
<b>CMS</b>	Content Management System
<b>WP</b>	Work Package

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## Executive Summary

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This document provides a general overview of the structure and contents of the 6Green public website, whose main goal is to support both the dissemination and the communication of the project activities.

The public website provides the main point of initial contact and information to the public and to other researchers and experts in the field. It has been designed to be professional, crawlable and responsive and it is planned to be regularly maintained. It is intended to publish both general content about the project and non-confidential technical deliverables when these become available, as well as to provide references to scientific publications and links to any other dissemination or communication material produced by the project.

This document reflects the current status of the website at the time of writing and the already planned content and features that will be developed in the near future. Possible modifications and improvements might be identified in future to address any needs not identified at this stage.

# 1 Introduction

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The project coordinator has registered the following domain name for the 6Green project: **6green.eu**. This domain will be used to provide the official 6Green Internet services, such as the website and email.

The 6Green public website is intended to be used both for communication to the general public and for dissemination to the experts and the research community; it will be an effective communication and dissemination channel, where the knowledge and the results generated by the project can be shared and published to be publicly available.

The public website will provide detailed information about the 6Green project objectives and activities. The aim is for this platform to be constantly updated with material such as upcoming meetings, participations in events and conferences, dissemination actions, publications, whitepapers, news, etc. It will be a key element through which the consortium will be able to share the results of the project with the research community, stakeholders and experts, but also with curious web surfers from the general public.

## 2 Public Website

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The 6Green public website is available at the following URL: <https://www.6green.eu>.

The public website is hosted on CNIT web servers and it is based on the well-known CMS WordPress<sup>1</sup>.

The 6Green public website has been structured as a vehicle both to disseminate the project works and results to experts in the field and to communicate the project activities to the general public. CNIT designed the layout and will maintain the website content in collaboration with all partners and supervision of WP6 Leader.

The activities related to the creation, maintenance and updating of the website falls under Task 6.1 “Dissemination and Communication Activities”, led by ICCS, whose main objective is to take care of the dissemination and communication activities of the project, from the definition of the overall strategy, to the identification of the action plan to be implemented, to the execution of the planned activities.

Task 6.1 also includes the populating of the 6Green social media channels, whose links are provided in the header of the public website. At the time of writing, an X account (formerly Twitter)<sup>2</sup> and LinkedIn page<sup>3</sup> has been created, while a YouTube channel will be created later on, if the needed.

The public website presents the following information about the project to visitors:

- a summary of the project, underlining the key ideas and the main goals;
- a technical overview, presenting the context, the objectives and the methodology;
- a brief description of the project uses cases;
- the lists of the project outcomes (Deliverables, Dissemination and Communication activities, Scientific publications);
- the main data of the project grant and the list of the partners composing the Consortium;
- the latest news about the project activities and a collection of the interesting events related to the project research area.

The website will collect traffic statistics based on web analytics (number of visitors per month, page views, browser/spider agents, etc.) to measure the interest in the various pages of the project website.

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<sup>1</sup> <https://wordpress.com>

<sup>2</sup> <https://twitter.com/6GreenProject>

<sup>3</sup> <https://www.linkedin.com/company/6green-project/>



## 2.1 Home page

The homepage of the public website is the “front door” for the visitors to access information about the 6Green project.

The “**Home**” page is organized according to the following design template:

### Header

- **Logo** of 6Green project.
- **Navigation Menu**, containing links to the specific pages of the website, structured as follows:

#### **Project Overview >**

*Objectives & Methodologies*

*Use cases*

#### **Project Outcomes >**

*Communication activities*

*Deliverables*

*Scientific publications*

#### **About >**

*At a glance*

*Partners*

#### **News & Events**

- **External Links Bar**, with the well-known, characteristic social media icons linking to the main page of the corresponding 6Green social account, the link to the project GitHub repository and the contact email address of the project ([info@6green.eu](mailto:info@6green.eu)).

### Body

- **Graphic stripe** with three buttons which links to the following main pages:
  - Objectives & Methodologies*
  - Partners*
  - Use cases*
- Section “**The 6Green Project**” with a brief overview of project along with its objectives.
- Section “**Latest News & Events**” presenting the most recently published news.

### Footer

- Column containing the 6Green logo, the contact email address and **Horizon Europe funding acknowledge**.
- Column containing the **Navigation Menu**.
- Column containing the links to the **Privacy Policy** and to the **Cookie Policy**.

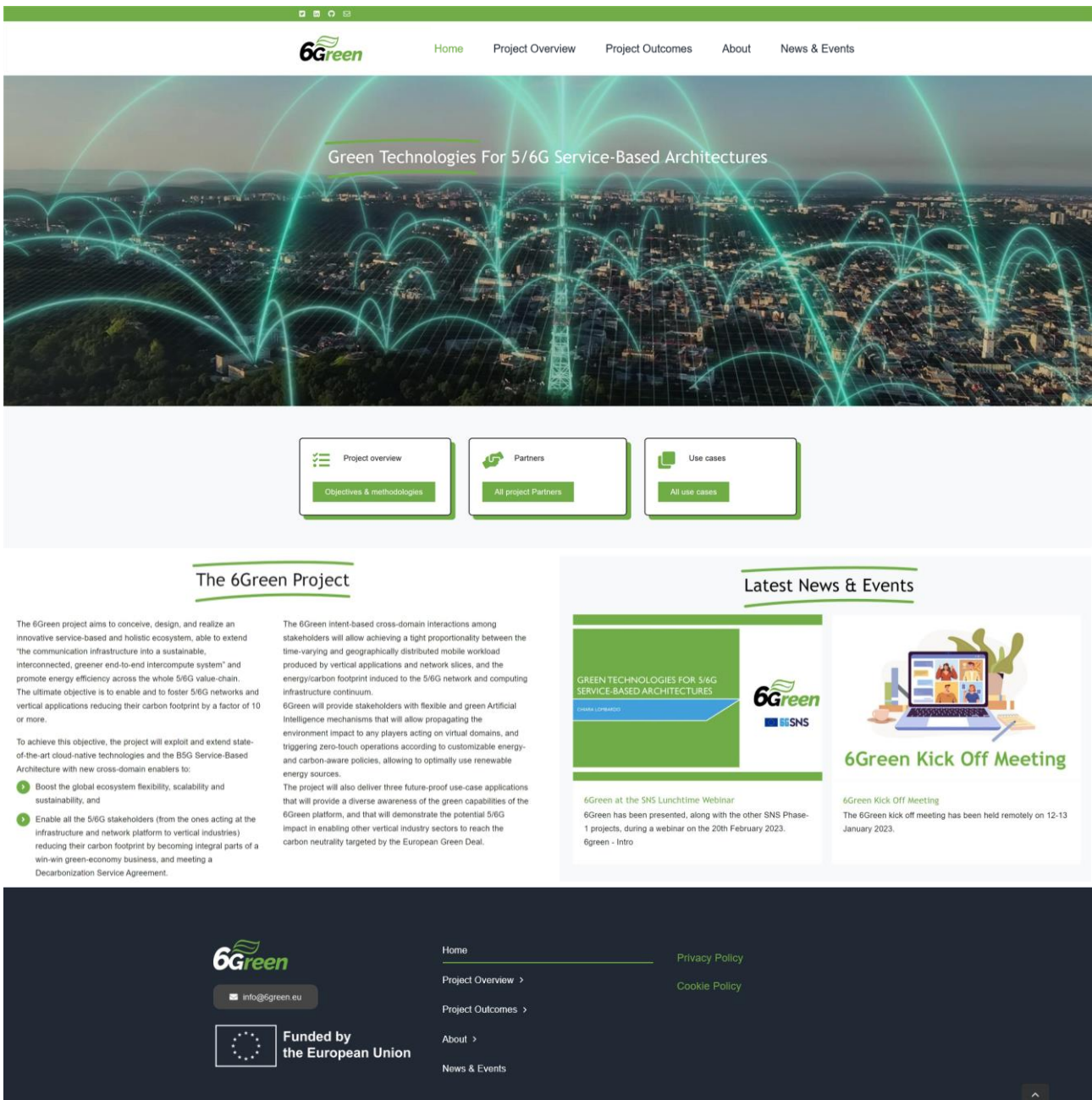


Figure 1: 6Green website – “Home” page.

## 2.2 Project Overview

### 2.2.1 Objectives & Methodologies

The “**Objectives & Methodologies**” page outlines the project mission to drastically reduce the carbon footprint of 5/6G networks through innovative technologies and methodologies, focusing on sustainable, energy-efficient practices and AI mechanisms to achieve a greener 5/6G ecosystem.

The “**Context**” section discusses the challenges posed by the rise of edge computing and its impact on energy consumption and greenhouse gas emissions, emphasizing the need for new paradigms to address the energy and carbon footprints of the 5/6G continuum.

The “**6Green Objectives**” section details the project's goal to enable 5/6G networks and vertical applications to reduce their carbon footprint significantly, potentially by a factor of 10 or more, by leveraging cloud-native technologies and beyond 5G service-based architecture with new cross-domain enablers to enhance ecosystem flexibility, scalability, and sustainability.

The “**6Green Description and Methodologies**” section describes the three ground-breaking technological innovations that have been identified and that reflect the structure of the project activities: 1) “Edge Agility”, 2) “Green Elasticity”, 3) “Energy-Aware Backpressure”.

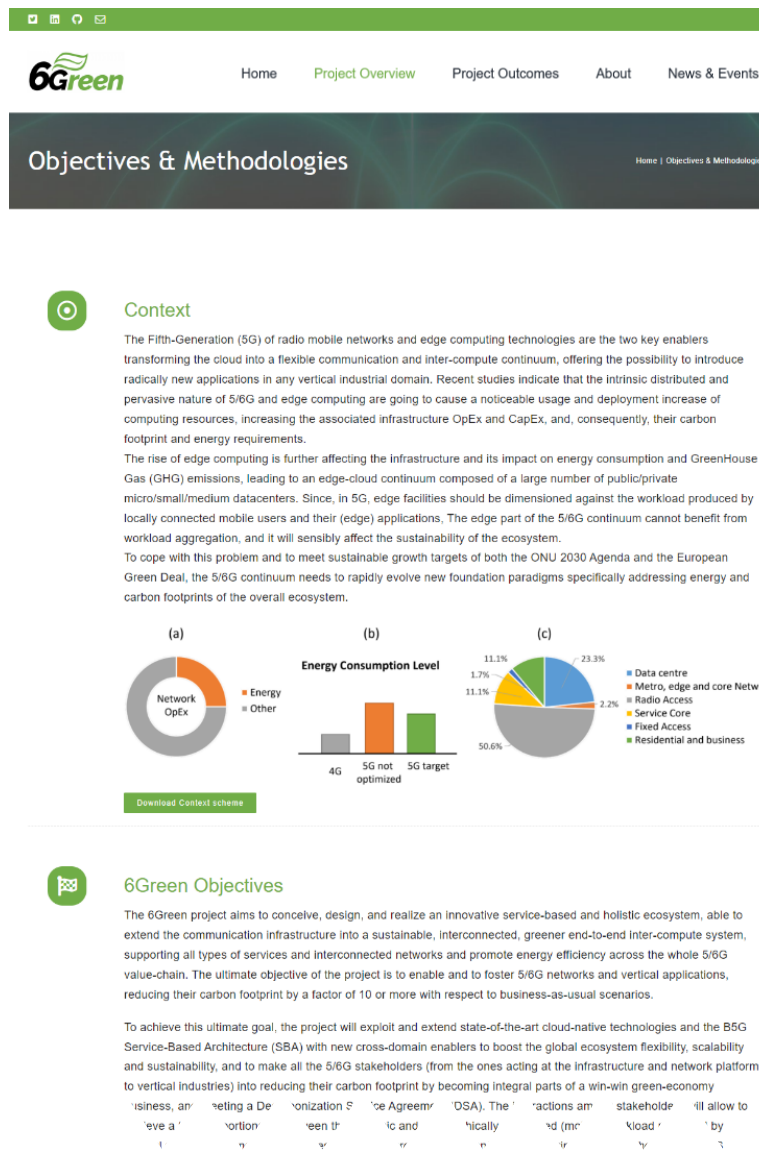


Figure 2: 6Green website – “Objectives & Methodologies” page.

## 2.2.2 Use cases

The “**Use cases**” page presents the three use cases that have been proposed to showcase the practical applications of the project’s green technologies in 5/6G service-based architectures: 1) “Critical Operation Maintenance during Energy-Constraint Disaster Scenarios”, 2) “Energy-Efficient Augmented Reality Remote Assistance System”, 3) “Zero-Carbon Clientless Virtual Enterprise Desktop as-a-Service (DaaS)”.

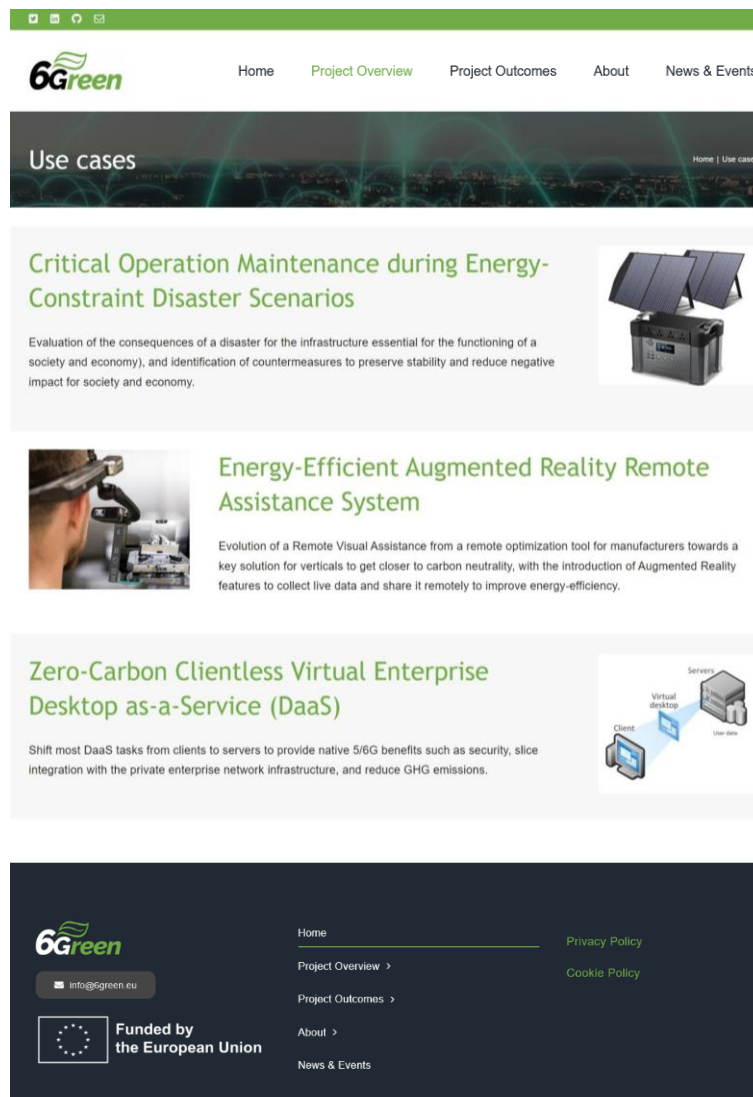


Figure 3: 6Green website – “Use cases” page.

## 2.3 Project Outcomes

The three pages under the “**Project Outcomes**” menu item will present visitors with information on the main results archived by the project, providing the list of public deliverables, the dissemination activities with the related documentation (such as technical and/or scientific publications, whitepapers, etc.) and the communication activities with the link to the related media (such as presentations, videos, website where to get more information on the activity, etc.).

These pages will be constantly updated during the course of the project; the lists will be automatically populated with the entries that the 6Green partners will add through the appropriate forms which have been set up in the private area.

### 2.3.1 Deliverables

The “**Deliverables**” page lists the public deliverables realised by the consortium in the progress of the project, providing the link to download the PDF version of the reports.

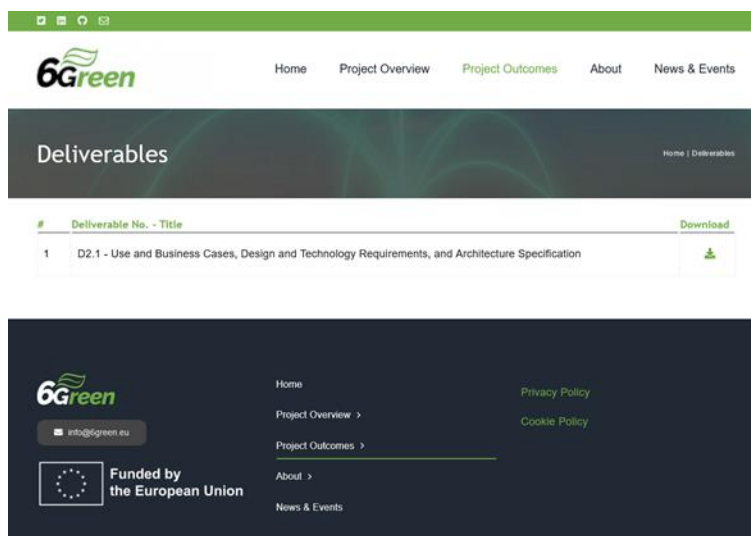


Figure 4: 6Green website – “Deliverables” page.

### 2.3.2 Scientific publications

The “**Scientific publications**” page will list all scientific publications related to the 6Green activities produced by the consortium partners, providing the link to the Open Access document.

### 2.3.3 Dissemination & Communication activities

The “**Dissemination & Communication activities**” page will list the dissemination and the communication activities carried out during the project lifespan.

## 2.4 About

The “**About**” menu item groups the links to the project information pages.

### 2.4.1 At a glance

The “**At a glance**” page summarizes the data related to the 6Green project: such as the official start and end dates, the amount of the funding, the call topic and the name of the project coordinator.

### 2.4.2 Partners

The “Partners” page lists the consortium partners.

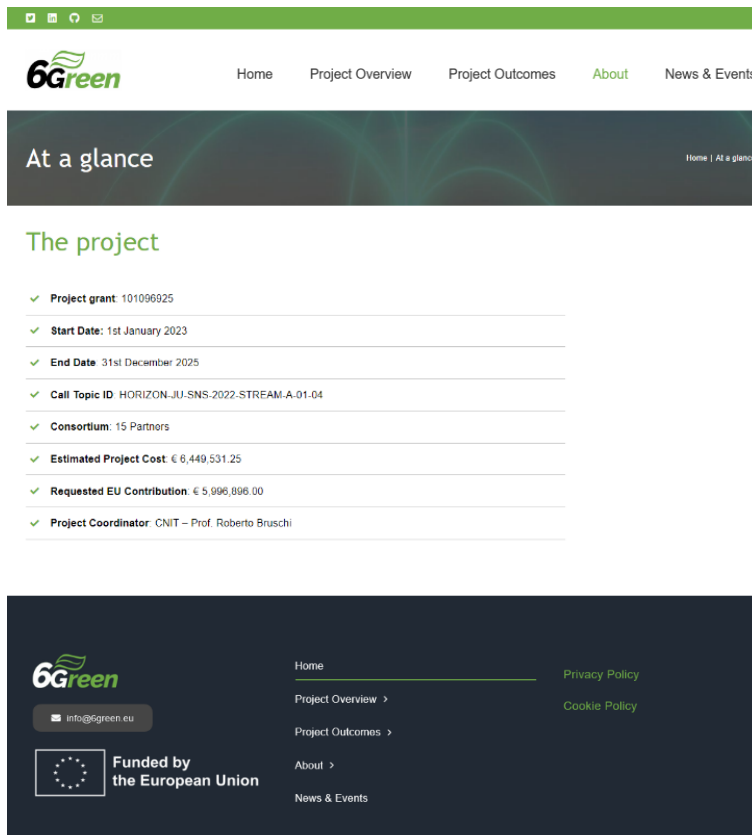


Figure 5: 6Green website – “At a glance” page.

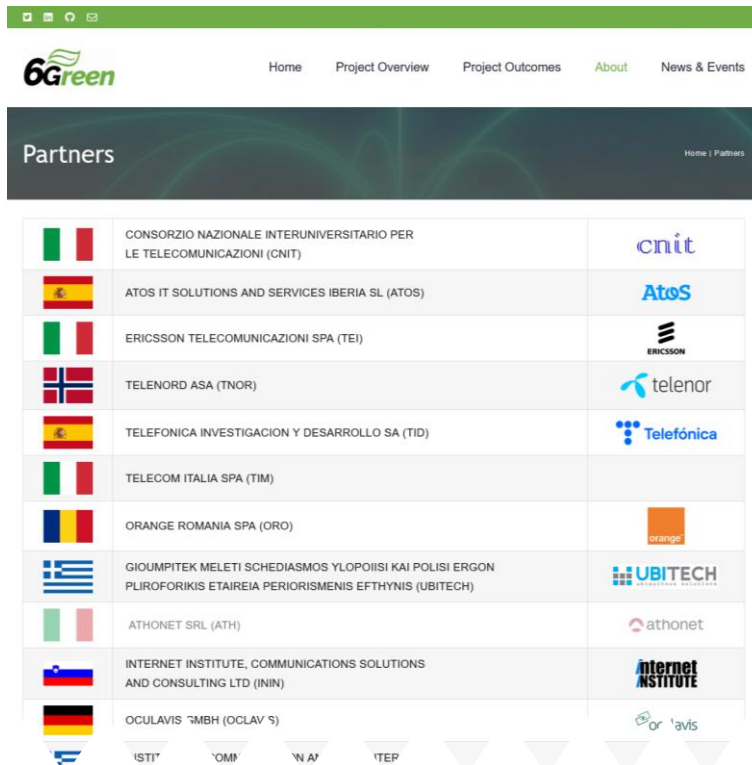


Figure 6: 6Green website – “Partners” page.



## 2.5 News & Events

The “News & Events” page features updates and information on the various activities and milestones of the project and serves as a hub for the latest news, events, and developments related to the 6Green project.

As for the “Project Outcomes” section, this page will be populated on the basis of the news inserted by the partners in a dedicated form in the private area.



Figure 7: 6Green website – “News & events” page.

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## 3 Conclusions

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This document has described the structure and purpose of the 6Green public website, which has been designed, implemented and published online in the first months of the project and which will be constantly updated throughout the lifetime of the project.

The 6Green public website is intended to be used both for communication to general public and for dissemination to experts and research community, being the main channel where knowledge and results generated by the project can be shared and published to be publicly available.