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D6.1 - Development of Project Website

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0.2. Document History

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Table of Contents

0.	DOCUM	ENT INFO	2
	0.1. AUT	HORS	2
	0.2. Doc	UMENT HISTORY	2
	0.3. Doc	UMENT DATA	2
	TABLE OF CO	NTENTS	3
	List of Ta	bles	3
	List of Fig	gures	3
	ACRONYMS		5
	EXECUTIVE SU	JMMARY	6
1.	INTRODU	JCTION	7
2.	HARDWA	ARE AND SOFTWARE INFRASTRUCTURE	8
		S GLOBAL INFRASTRUCTURE	-
	2.1.1.	Regions and availability zones of AWS	
	2.1.2.	Global Infrastructure	
	2.1.3.	High availability thanks to the availability zones	
	2.1.4. 2.1.5.	More continuity with the replication between regions Compliance requirements and physical position of data	
		tent Management System	
3.	VISUAL I	DENTITY1	.2
	3.1. Log	DTYPE	.2
4.	WEBSITE	FEATURES1	.4
	4.1. Stru	JCTURE OF THE WEBSITE	4
	4.1.1.	Homepage1	4
	4.1.2.	The Project	
	4.1.3.	GreenSCENT Pillars	6
	4.1.4.	Methodology1	7
	4.1.5.	Demonstrators	8
	4.1.6.	Partners1	9
	4.1.7.	News	0
	4.1.8.	Contacts	!1
5.	NEXT ST	EPS AND DEVELOPMENTS2	2

List of Tables

Table 1 AWS regions	9
Table 2 AWS European Regions	10

List of Figures

Figure 1 AWS global infrastructure	8
Figure 2 AWS Europe / Middle Est / Africa	10
Figure 3 Final version of the Logotype	
Figure 4 Green scale of the logo	
Figure 5 Yellow part of the logo	13
Figure 6 Homepage of the project website	
Figure 7 Website page project description	15
Figure 8 GreenSCENT Pillars	





Figure 9 GreenSCENT methodology	17
Figure 10 GreenSCENT demonstrators	
Figure 11 GreenSCENT partners	
Figure 12 GreenSCENT news	
Figure 13 GreenSCENT "contact us"page	





Acronyms

Acronym	Description
AWS	Amazon Web Services
AZ	Availability Zones
CMS	Content Management System
CPU	Computer Unit
DB	Database
HTML	Hypertext Markup Language
KOM	Kick Off Meeting
MDG	Millennium Development Goals
RAM	Random Access Memory
SDG	Sustainable Development Goals
SEO	Search Engine Optimization
SQL	Structured query language





Executive Summary

This document illustrates the main features of the project's website, realized based on the specifications given in WP6, as Deliverable D6.1. This deliverable, so the public website launch, is due on 31/01/2022; the project management website will be online on M3.

This document illustrates the design options affecting the conception of the Logo, the choice of the Color Palette characterizing the "Brand Identity" of GreenSCENT, and Home Page and the inner pages of the GreenSCENT website.

In the following section, we illustrate the technologies on which the GreenSCENT website relies. In addition, there is a detailed illustration of the sections included into GreenSCENT website in its launching phase and more specifically:

- > The Home Page inclusive of the objectives of the project
- > The "About us" with an abstract explaining how the project will work
- > The GreenSCENT Pillars are the main areas on which the project refers to
- Methodology of work
- > Demonstrators: the "practical" use of the project
- > The list with logos and link to their website of the 15 partners involved in the project
- > News, a section supplying a press review, press releases, news and events management;
- Contacts, allowing the website users (also anonymous users) to get in touch with the GREENSCENT project team.

The website of the GREENSCENT project can be freely navigated at the URL: <u>https://www.green-scent.eu</u>





1. Introduction

GreenSCENT – Smart Citizen Education for a Green Future – is a research and innovation project funded by the European Union's Horizon 2020 programme, under Grant Agreement N° 101036480. GreenSCENT aims at developing a competence framework embracing all the Green Deal focus areas through an iterative, participated, experience and learning-by-doing based design approach. GreenSCENT activities embrace both experts and researchers inputs and advise, citizen participation and stakeholder engagement initiatives; different European regions, different educational levels (from primary schools to higher education), at different engagement levels (from observation to data collection and processing, to contribution to scientific and policy agenda). GreenSCENT legacy will consist of the Competence Framework (GreenComp), its Methodology, Use Cases, User Guides; Training kits co-designed for implementing the framework; SCENTbox, the set of digital, physical and hybrid demonstrators developed by the project; and ECCEL, a European "driving license" for Climate and Environmental competences and skills, that will be tested during the project.

This document complements the publication of GreenSCENT project website, a deliverable type: DEC foreseen in the first month of the project implementation timespan. GreenSCENT project website is a platform for ongoing public engagement, including areas for news releases, project reports and technical documentation.

The website is available at the URL: https://www.green-scent.eu.

Special attention was devoted to establishing the website digital identity, which is meant at respecting the project's mission.

The portal utilizes a scalable architecture allowing increasing its performances when new resources are brought in, on the single server (RAM, CPU, etc.) as well as by adding other servers in order to share the workload. This allows maintaining good performance levels even with an increase of the users' numbers.

UNINETTUNO utilizes the Amazon Web Services (AWS) to maintain its own hardware and software architecture, being Amazon WS one of the biggest Internet cloud service suppliers across the world.

The system includes a big Internet-based portal with information sections and learning environments, based on a database meant to structuring, storing and retrieving information and supported by applications for the delivery of on-demand educational content also in a streaming technology video format.





2. Hardware and Software Infrastructure

UNINETTUNO uses Amazon Web Services (AWS) to manage its own Hardware and Software architecture, provided Amazon WS is one of the biggest Internet cloud service providers all over the world.

2.1. AWS Global Infrastructure

The AWS cloud operates in 84 availability zones across 26 geographic regions of the world.

2.1.1. Regions and availability zones of AWS

The cloud infrastructure of AWS is based on regions and availability zones or AZ (Availability Zone). A region is a geographic area, where several availability zones exist. Availability zones consist of or more data centres provided with redundant charge, network and connectivity, in its own separate structure each. These availability zones allow to carry out applications and databases in production environments with availability, tolerance to malfunctions, scalability, which are not to be attained in another way within the single data centre. The AWS cloud operates in 84 availability zones across 26 regions all over the world.

2.1.2. Global Infrastructure

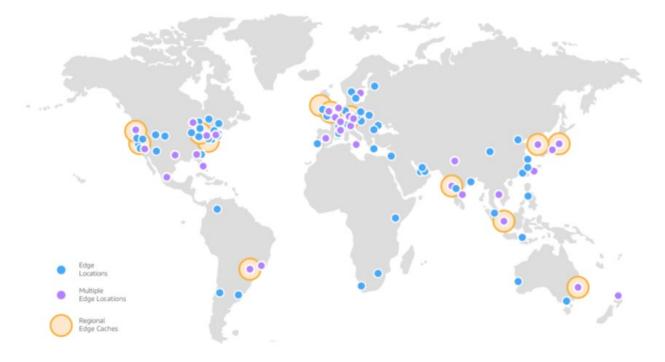


Figure 1 AWS global infrastructure

Regions and	lamount	of availability	zones
-------------	---------	-----------------	-------

- 1. Eastern United States North Virginia: 6
- 2. Eastern United States Ohio: 3
- 3. Eastern United States GovCloud: 3
- 4. Western United States GovCloud: 3
- 5. Western United States North California: 3
- 6. Western United States Oregon: 4







Table 1 AWS regions

2.1.3. High availability thanks to the availability zones

In contrast to almost all the other technology infrastructure providers, AWS envisages that each region has several zones of availability and data center. AWS leads the technological cloud platform since 2006, so it knows the key role that application availability and performance play for clients, and provides the possibility of spreading its applications across different availability zones within the same region in order to enhance the tolerance to malfunctions and curb the latency. The availability zones are connected to each other with very fast optic fiber private networks, allowing the clients to design applications to run the failover on different zones, without causing interruptions.

2.1.4. More continuity with the replication between regions

Besides replicating the applications and data in different data centers within the single region by using the availability zones, it is also possible to obtain increased redundancy and tolerance to the malfunctions by replicating data over different regions. It is possible to use both high-speed private networks, and public Internet connections, so as to further improve the continuity and keep latency under control all over the world.

2.1.5. Compliance requirements and physical position of data

With AWS it is possible to select in which region to physically stock the data, simplifying the compliance to territorial requirements.

2.1.5.1. Europe / Middle Est / Africa







Figure 2 AWS Europe / Middle Est / Africa



Regions

Edge Locations

Europe Region (Ireland)	Europe Region (Frankfurt)		
Availability Zones: 3	Availability Zones: 3		
Kicked off in 2007	Kicked off in 2014		
Europe Region (London)	Europe Region (Paris)		
Availability Zones: 3	Availability Zones: 3		
Kicked off in 2016	Kicked off in 2017		
Europe Region (Stockholm)	Europe Region (Milan)		
Availability Zones: 3	Availability Zones: 3		
Kicked off in 2018	Kicked off in 2020		

Table 2 AWS European Regions

Edge Locations of AWS: Amsterdam, Netherlands; Athens, Greece; Berlin, Germany; Brussels, Belgium; Bucharest, Romania; Budapest, Hungary; Cape Town, South Africa; Copenhagen, Denmark; Dubai, AUE; Dublin, Ireland; Dusseldorf, Germany; Frankfurt, Germany; Fujairah, AUE; Hamburg, Germany; Helsinki, Finland; Johannesburg, South Africa; Lisbon, Portugal; London, England; Madrid, Spain; Manama, Bahrein; Manchester, England; Marseille, France; Milan, Italy; Munchen, Germany; Nairobi, Kenya; Oslo, Norway; Palermo, Italy; Paris, France; Prague, Czech Republic; Rome, Italy; Sofia, Bulgaria; Stockholm, Sweden; Wien, Austria; Varsaw, Poland; Zagreb, Croatia; Zurich, Switzerland; Tel Aviv, Israel.

2.2. Content Management System

The **Content** module is carried out by means of the Content Management System (CMS) by WordPress (<u>https://wordpress.org/</u>), a free and open source content management system (CMS) based on PHP and MySQL





WordPress is the most widely used CMS software in the world and as of June 2021, it powers more than 40% of the top 10 million websites and has an estimated 64% market share of all websites built using a CMS.

WordPress started as a simple blogging system in 2003, but it has evolved into a full CMS with thousands of plugins, widgets, and themes. It is licensed under the General Public License (GPLv2 or later).



3. Visual Identity

The establishment of the digital identity relied on a process of aggregation of the project main concepts that were represented by some key words.

Keywords - to be considered in the design process:

- \rm Green
- Environment
- Training
- Education
- Millennium Development Goals (MDG)
- Environment
- School
- \rm Europe
- 4 2030
- Sustainable Development Goals (SDG)
- Pollution
- Circular Economy
- Youth Engagement
- Shaping a Green Future
- Citizen participation

3.1. Logotype

GreenSCENT Logo was originally designed during the proposal preparation phase, and further updated during project implementation, by BSC experts.

The printing logo can be put in various places, whereas the "Smart Citizen Education for a Green Future" slogan can be added or eliminated depending on the use. The suggested printing font is allows the user to read in a clear way the logo.



Figure 3 Final version of the Logotype





The chosen colors represents the cultural and social identity of the logo and the need to underline the "green" message identified with the logo and the words used.

The colors scale from deep blue to light green represents the path to be followed in order to reach a cleaner and less polluted world, starting from blue economy until green economy.



Figure 4 Green scale of the logo

The yellow part of the logo with the T represents the Sun and the good use we can do of our principal star in order to develop a greener future in accordance to the Sustainable Development Goals.



Figure 5 Yellow part of the logo

The chosen colors encourage communication and the need to tell Citizens what is happening in our world due to climate change and how to act towards greener solutions. Yellow represents the sun but also the optimism to improve our life conditions through an adaptation to this world changing too fast. Green is also one of the colors that child and youth prefers as it represent freedom, clean environment and good quality of life. Finally the dark blue represent the oceans and their importance in our life cycle, in the meantime it also represents the blue economy.

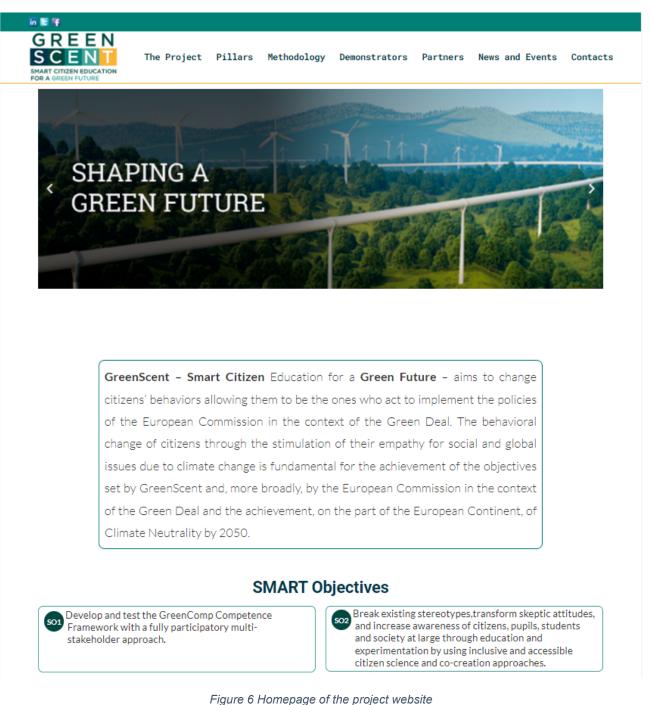


4. Website Features

4.1. Structure of the website

4.1.1. Homepage

This area includes provides access to the main website areas through the top-menu; a carousel shows relevant, emotional image related to the ecological transition, with keywords/phrases related to the GreenSCENT project. A brief introduction to GreenSCENT and the list of the SMART objectives complete the page content in this first release.

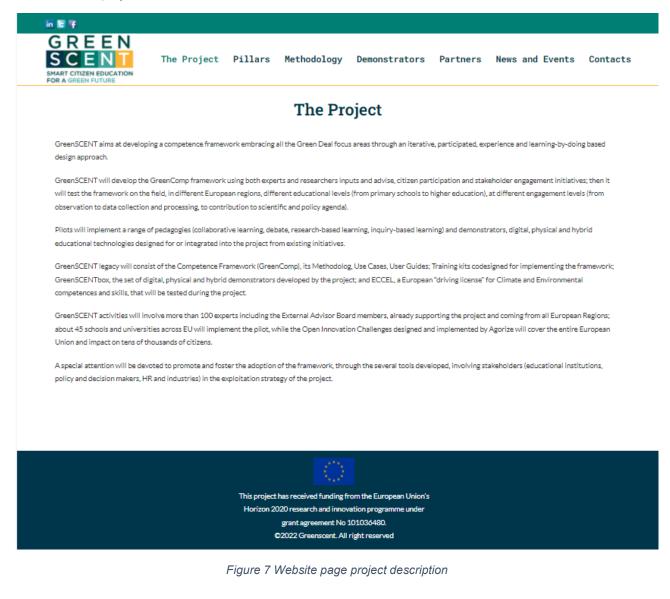






4.1.2. The Project

This area explain in an "abstract" the concept and the work that will be developed during next three years with GreenSCENT project:







4.1.3. GreenSCENT Pillars

This area includes a graphic view and a brief description of the six pillars, which the project is based on:

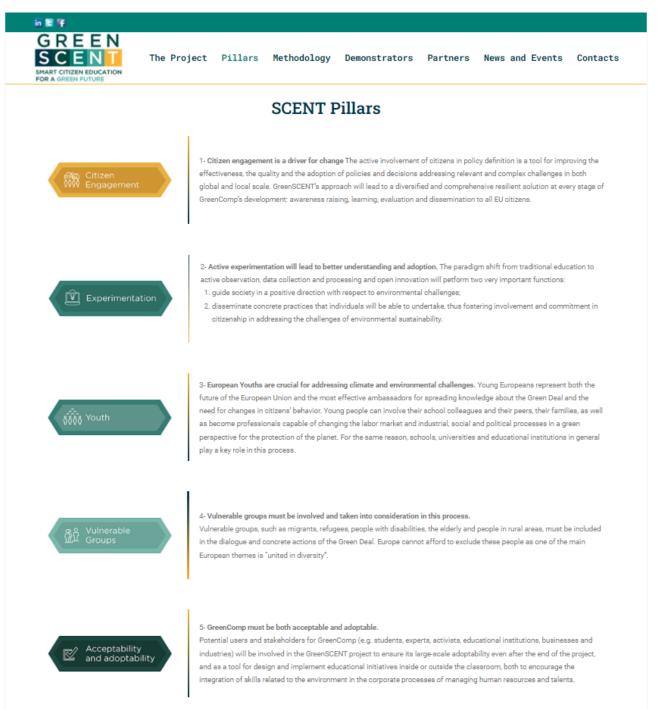


Figure 8 GreenSCENT Pillars





4.1.4. Methodology

This area explain with graphics and with a brief description the methodology used and the 3 main phases of GreenSCENT:

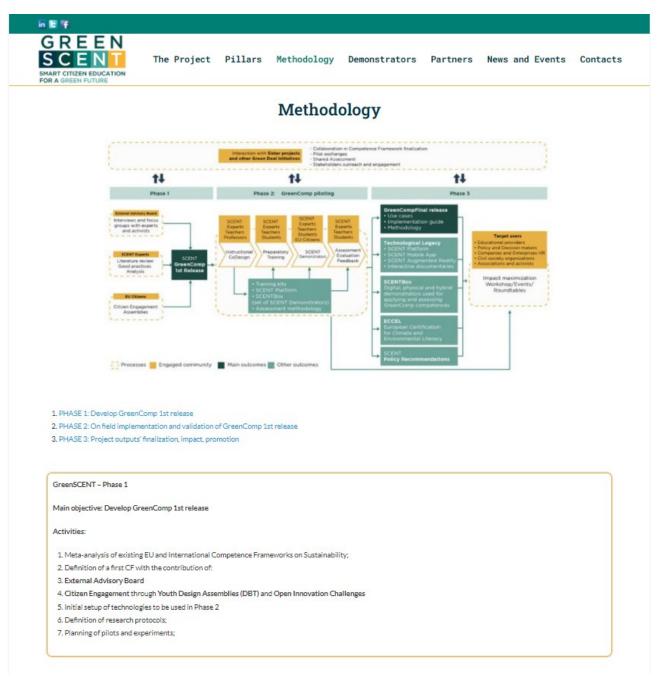


Figure 9 GreenSCENT methodology





4.1.5. Demonstrators

This area includes the nine demonstrators that will be used/developed during the three project phases:



The Project Pillars Methodology Demonstrators Partners News and Events Contacts

Demonstrators

1 Crowdsourced environmental monitoring

Target users: Citizens, Youth, Students Creation and testing of a platform for user-generated content (Web + App collaborative platform for mobile devices); users will be able to testify with photos, videos, comments, geo-localized references to good and bad practices they witness, by populating a European platform with crowdsourced data.

4 Citizen Science: microplastics

Target users: Mainly teachers and students A targeted experimentation on the "blue deal" theme and the relevance of water in environmental issues, which will allow teachers to train students on how to use the kits to analyze the presence of microplastics. The data collected by the students in the various experiments will populate the GreenSCENT collaborative platform.

2 GreenScent Citizen Journalism

Target users: Citizens, Youth, Students The platform will allow the reuse of data uploaded by users, sharing on external media content (e.g. creation of blog posts using content and data from the GreenScent platform), and also the development of apps that reuse, through a system of API interfaces, contents and functions of the GreenSCENT platform for publication, research, journalism, school and university experimentation purposes.

5 Open Innovation Challenges: «from farm to fork»

Target users: Citizens, Youth, Students GreenSCENT will manage 3 cycles of Open Innovation Challenges, which will be open to citizens in general, students and the European start-up community. In particular, through the Agorize platform, a specific challenge will be managed on the best ideas for tracing the food production cycle and reducing its impact, according to the principle of the EU Green Deal "from farm to fork".

) —

8 GreenSCENT – Augmented reality app

Target users: Citizens, Youth, Teachers and students This, too, focused on the aspects of air quality and "zero carbon", will allow the teacher to prepare educational activities in the classroom, and for students to contribute by creating simple content displayed in AR that will create tags on the real places in their newspaper; moreover, it can also be used by "ordinary citizens", both to explore contents concerning their neighborhood and the initiatives taking place in other European countries.

3 Interactive documentaries

Target users: Citizens, Youth, Students Through the use of 360 video technologies, the GreenSCENT platform will allow teachers and educational designers to create 360 video experiences on which students can contribute by creating content that will enrich the 360° scenarios proposed, and which will then be reusable and further enriched by other users, students, educational institutions.

6 Climathon

Target users: PhD students, Researchers, Experts Climate Risk Analysis and UNSPMF will organize Climathons, innovation challenges incubated in university and research institutions, to generate, guided by the consortium experts, innovative research ideas to address the challenges of climate change and global warming.

7 Cleanair@schools

Target users: 10/11 yold students, K12 Prepared by preliminary teaching activities, students at the end of the primary cycle will be involved in this experiment that will see them use test tube sensors to analyze the air quality in the areas where they live. Again, the data will then be uploaded to the GreenSCENT platform.

9 Youth Design Assemblies

Target users: Citizens, Youth Following the Citizen Engagement methodology of the Danish Board of Technologies, 4 panels will be

created - Italy, Spain, Serbia, Denmark - for the creation of these Design Assemblies for young people, which will take place both in presence and through the DBT EngageSuite platform.



Figure 10 GreenSCENT demonstrators





4.1.6. Partners

This area cover the description of all the GreenSCENT partners and their specific logo with a direct link to their websites:





UNINETTUNO is an International Telematics University with six faculties and more than 15.000 students from more than 165 countries enrolled to its courses, which are provided in 6 languages through its e-learning platform. The distance courses have been also broadcasted using the web-tv www.uninettuno.tv and the satellite channel UninettunoUniversity.TV. The didactic programs include degree courses and masters for the following faculties: Engineering, Law, Economics, Psychology, Literature and Communication Sciences. In addition, the University offers several VET courses and up to 220 MOOC courses, being one of the largest MOOC providers in Europe.



Engineering Group is one of the main actors in the digital transformation of both public and private companies and organisations, with an innovative range of services for the main market segments. With 40+ locations (in Italy, Belgium, Germany, Norway, Serbia, Spain, Switzerland, Sweden, Argentina, Mexico, Brazil and USA), the Engineering Group designs, develops, and manages innovative solutions for the areas of business where digitalisation generates major change, such as Digital Finance, Smart Government & E-Health, Augmented City, Digital Industry, Smart Energy & Utilities, and Digital media & Communication. With its activities and projects, the Group is helping to modernise the world in which we live and work, combining specialist skills in the final frontier of technologies, technological infrastructures organised in a unique hybrid multi-cloud model, and the ability to interpret new business models. With important investments in R&D, Engineering plays a leading role in research, coordinating national and international projects and participating in international networks playing the dual role of promoting research on software at an international level and transferring innovation to the production cycle of the business structures.



The Universitat Autònoma de Barcelona (UAB), located in Bellaterra near Barcelona, is one of the major public universities in Spain. Currently, the university offers more than 100 bachelor's degrees, covering a wide range of fields in humanities and arts. social sciences. health sciences. technology

Figure 11 GreenSCENT partners





4.1.7. News

This area is populated through Wordpress main Blog Engine; it will list, in chronological reverse order, Events and News published as blog post using Wordpress dashboard.

in 🖪 🙀								
GREEN SCENT SMART CITIZEN EDUCATION FOR A GREEN FUTURE	The Project	Pillars	Methodology	Demonstrators	Partners	News and Events	Contacts	
This project has received funding from the European Union's								
Horizon 2020 research and innovation programme under								
grant agreement No 101036480.								
			D2022 Greenscent. All	right reserved				

Figure 12 GreenSCENT news





4.1.8. Contacts

This area includes a contact form allowing anybody navigating the website (including non-registered / anonymous users) to get in touch with the GreenSCENT project team by sending an e-mail using the form posted in this page:

in E W								
GREEN SCENT SMART CITIZEN EDUCATION FOR A GREEN FUTURE	The Project	Pillars	Methodology	Demonstrators	Partners	News and Events	Contacts	
Contact US								
Feel free to contact us	if you need any fi	urther inforn	nation.					
Name*					Project Coordination and Secretariat Università Telematica Internazionale UNINETTUNO			
Insert your name	Last				Corso Vittorio E 00186 – Roma	imanuele II, 39		
Email *					Proiect coordin	ator: Alessandro Caforio		
Comment or Message*						r riat: Barbara Sani, Davide Vi	etri	
Non sono un robot	NECAPTCHA Prinag- Tarrini			"				
Submit								
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101036480.								
©2022 Greenscent. All right reserved								

Figure 13 GreenSCENT "contact us"page





5. Next Steps and developments

GreenSCENT Project started on 01/01/2022, the Kick Off Meeting will take place online¹ on 1st - 2nd and 3rd of February 2022. This deliverable 6.1 was due on 31st of January 2022.

The project website will be constantly updated during the project lifetime; the initial website structure is very simple and provides a quick overview of the main project components (partners, objectives, demonstrators) allowing to launch the kick off meeting with a "digital identity" of the project already available. The website already gives access to the GreenSCENT social media (Facebook page, LinkedIn page, Twitter account).

First activities and deliverables will generate new contents for the GreenSCENT Website, and specifically:

- A new page/area will be dedicated to **deliverables**, listing and allowing access to reports and documents with "Public" dissemination level;
- News/Events area will be constantly updated;
- "The project" section will be replaced with a more dynamic representation of the project state of the art;
- **GreenComp** 1st release (D1.1), foreseen at December 2022, will be both published as a standard, linear report, and made available **as a hypertext section on GreenSCENT website**, improving *searchability* and discovery for interested stakeholders.
- **New languages**, beyond English, will be added, for widening the awareness about project activities in the GreenSCENT consortium partners' countries.

Finally, new sections, contents and features will emerge as a result of the interactions among project partners and research participants from other organizations and EU society at large, and will be welcomed by project coordinator and the consortium, while these insights will be used as inspiration for further improving and evolving the project website.

 ¹ Due to COVID 19 Pandemic Disease, the KOM has been organized as an online meeting.
GreenSCENT – Smart Citizen Education for a Green Future
D6.1 – Development of Project Website