

PROJECT DELIVERABLE REPORT



Greening the economy in line with the sustainable development goals

D9.3 Project Website

A holistic water ecosystem for digitisation of urban water sector SC5-11-2018

Digital solutions for water: linking the physical and digital world for water solutions



Document Information

Grant Agreement Number	820985	Ac	ronym	NAIADES		
Full Title	A holistic water ecosystem for digitization of urban water sector					
Topic	SC5-11-2018: Digital solutions for water: linking the physical and digital world for water solutions					
Funding scheme	IA - Innovation action					
Start Date	1stJUNE 2019		Duration	1	36 n	nonths
Project URL	www.naiades-project.eu	L			ı	
EU Project Officer	Alexandre VACHER					
Project Coordinator	CENTER FOR RESEA	CENTER FOR RESEARCH AND TECHNOLOGY HELLAS - CERTH				
Deliverable	D9.3 Project Website					
Work Package	WP9 – Raising Awaren	ess, Sta	ındardisati	on and Exp	loitation	Roadmap
				Actual		2/09/2019
Date of Delivery	Contractual	30/0	8/2019	Resubn date	nission	1/07/2021
Nature	R - Report		Dissemi Level	nation	PU-	PUBLIC
Lead Beneficiary	Mandat International (N	MI)				
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Reviewer(s):	AIMEN, UDGA					
Keywords	Website, communication					

Revision History

Version	Date	Responsible	Description/Remarks/Reason for changes	
0.1	28/08/2019	MI	Report write-up	
0.2	30/08/2019	AIMEN	Internal Review	
1.0	2/09/2019	MI	Review and Release	
2.0	01/07/2021	MI	Report revision and update of relevant content	
			following modifications on the website	
2.1	01/07/2021	UDGA, AIMEN	Internal Review	
2.2	1/07/2021	MI	Final submission	



Detailed Updates of Revision 2.2

The table below offers a summary of the changes in the deliverable. However, most changes mentioned here took place on the website.

Number of Section	Title	Update	Description/Remarks/Reason for changes
3.2	Website Design and Structure	Design	Inconsistencies regarding the employed design (use of colour scheme, font, alignment, etc.) were eliminated and the design was harmonized. Certain visuals were also considered as having the need to be improved and were thus adapted.
3.2.1	Homepage	Design and Visuals	A quick access section for upcoming events has been added below the four tabs to access the consortium, the deliverables, the project and the pilots. Regarding the header, icons to access the social media channels of NAIADES have been included on the right, whereas the footer has been replaced with a new one.
3.2.2	Events	Content and Design	The design of the page has been adapted to a become more attractive and all past and upcoming events have been updated with a descriptive text and a respective image.
3.2.3	Project	Design	About the Project: Slight modification of the page, with the most notable change being the new icons for the four application domains. Expected Impact: Minor design modifications. Pilot Use Case: Rearrangement of page setup, with the use cases being put at the top of the map. Furthermore, the previous feature of dragging the arrow over each use case tab to make it flip and giving the visitor the possibility to access the additional pages was eliminated, as it was considered user-unfriendly. Instead, a static design was implemented. Picture Galleries: Minor design modifications
3.2.4	Results	Content and Design	Deliverables: The design of the page has been thoroughly changed. When landing on the page, each Work Package is shown and to access the respective deliverables, the user can simply click on the different folders.



			Presentations & Publications: The	
			previously existing pages "Presentations" and	
			"Published Papers" have been joined to one	
			single page. Five folders for different types of	
			publications (e.g., theses, online resources, etc.)	
			have been created and relevant content has	
			been uploaded to the website which can be	
			downloaded by the visitor.	
3.2.5	Blog	Content and Design	A "Blog" page has been created on the	
			NAIADES website to disseminate blog posts	
			written by the consortium partners. The design	
			was adapted in a way that it is uniform with the	
			rest of the site.	
3.2.6	Consortium	Design	The design of the page has been changed in a	
			way to adapt it to the rest of the NAIADES	
			website. Also, the user can now directly click	
			on the logo of the partner to access the	
			respective website which makes it more user-	
			friendly.	
3.2.7	Contact	Design	The design of the contact page has been	
			modified and quick access to the three social	
			media channels as well as to upcoming events	
			has been added.	
4	Statistics	Content	To illustrate the evolution of views on the	
			NAIADES website, a section on statistics has	
			been added to the deliverable.	
5	Conclusion	Content	The conclusion has been updated in function	
			of the revised text.	

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Contents

1	Sumi	nary	6
2	Intro	duction	7
3	The '	Website	7
3	.1	Website Creation Process	7
		Website Design and Structure	
,	3.2.1	Homepage	
		. 0	
	3.2.2	Events	
	3.2.3	Project	11
	3.2.4	Results	13
	3.2.5	Blog	14
	3.2.6	Consortium	15
	3.2.7	Contact	16
1		tics	
4			
5	Conc	lusion	18
List	of Fi	gures	
Figu	ıre 1: 1	NAIADES Website - Computer Display	8
		NAIADES Website - Smartphone display	
_		Pop-up Cookies Policy	
Figu	ıre 4: 1	NAIADES RSS	9
Figu	ıre 5: 1	NAIADES Website Header	10
Figu	ıre 6: 1	NAIADES Website Footer	10
Figu	ire 7: (Overview Design Events Page	10
Figu	ire 8: 1	About the Project	11
Figu	ıre 9: I	Pilot Use Case Tabs	12
Figu	ire 10:	Map of Project Pilots	12
Figu	ıre 11:	Picture Galleries	13
Figu	ire 12:	Results Submenu	13
Figu	ire 13:	Deliverables Page	14
Figu	ıre 14:	NAIADES Blog with Contributions of Partners	15
Figu	ıre 15:	Consortium Map	15
Figu	ire 16:	List of NAIADES Partners	16
Figu	ıre 17:	Overview of Contact Page with Form and Direct Access to Social Media and Upcoming	
_		Overview of Development of Visitors on the NAIADES Website from August 2019 to Jun	
\sim		List of Top 20 Countries Visitors Accessed the Website from between January and June 202	
			18



1 Summary

The deliverable D9.3 'Project Website' is a public document of the NAIADES project, produced in the context of WP9.

The NAIADES website is the main platform for promoting and disseminating the project's objectives, pilot use cases, activities, events and results to a wide audience. The NAIADES website was developed in a clear and user-friendly way.

In order to guarantee the successful promotion of the project, to sustain the interest of the target audience and to draw new visitors, the website's content is being maintained, continuously updated and populated with new information throughout the project's lifetime.



2 Introduction

Within the NAIADES project, a work package on Raising Awareness, Standardisation and Exploitation Roadmap (WP9) has been included in order to carry out diverse internal and external activities related to the project. The objectives of WP9, as per the Grant Agreement, include 'disseminating the NAIADES achievements and findings to all key actors in the field' and 'organizing and/or publishing results in international journals, conferences, and workshops to inform the scientific community about NAIADES, its goals, activities and results and to gather valuable information on related issues'. In order to meet these objectives, the NAIADES project website will be used, as one of the key dissemination tools.

The NAIADES project has developed its own web site, which can be accessed at https://www.naiades-project.eu/. Through the website, visitors can find project relevant information, documents and other important materials such as results and outcomes of the project. The here presented deliverable D9.3 "Project website" describes the key points of design, structure, execution, and content.

The role of the NAIADES website is to provide information concerning the project to a very broad community. The following target groups were identified:

- the general scientific community and R&D industrial departments,
- the European Commission,
- journalists, general public and stakeholders,
- companies in smart water management sector,
- city administrators,
- policy-makers,
- standardization bodies,
- other private or public organizations.

Mandat International, as WP9 leader, is responsible for the development and maintenance of the website. However, since the main objective of the website is to successfully disseminate the achieved project results of all Work Packages during the lifetime of the project, all partners are engaged to the contribution of the website.

3 The Website

A website dedicated to NAIADES was designed and developed from M2 of the project under the leadership of Mandat International. This website intents to be an attractive platform for the project and a vehicle for the effective dissemination of the latest news, events and results.

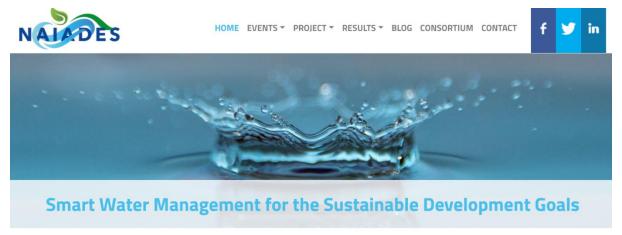
3.1 Website Creation Process

In order to foster collaboration at the WP9 level, Mandat International organized an e-meeting in M2 inviting all the members of the consortium in order to discuss the website requirements prior to development. During the conference call, Mandat International presented a document containing a mock-up template of the website to the partners, including suggested content for each of its pages. The partners were actively encouraged to provide their comments during the call, and the structure of the website was consolidated and validated. After the call, Mandat International sent out an e-mail to the consortium, requesting the partners to further review the mock-up template and the content of the website by the middle of M3. In parallel, the mock-up template was shared and reviewed by Mandat International's website developer, who proceeded to the implementation of the desired results. The website was finalized at the end of M3. In M24 and M25 of the project, the website was extensively updated, existing gaps and inconsistencies were resolved and the website was generally enriched. The following sections will draw upon the structure and content of the website while carefully explaining the functionality of each page.



3.2 Website Design and Structure

The design of the website strives to be clear, aesthetical, easy to navigate and well connected to all social media platforms the project is making use of (namely Twitter, Facebook and LinkedIn) while providing access to all the related and updated information. The web page was designed to be browsed both on traditional computer displays and on smartphones. The pages adapt dynamically to the screen space, as seen in the **Error! Reference source not found.** and **Error! Reference source not found.** below:



NAIADES supports the modernization and digitization of the water sector by providing a holistic solution for the control and management of water ecosystems.

The project aims to address the increased need for sustainable and eco-friendly water methodologies by defining a new ICT framework, with a wider scope than a sole technical proposition.

Driven by the need to yield an end-to-end, uniform approach, NAIADES redefines water management by taking into consideration issues pertaining to cost, safety, complexity, vulnerability, societal acceptance, user behaviour and ethics.

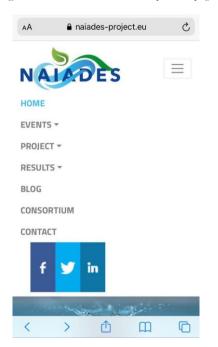


Figure 1: NAIADES Website - Computer Display

Figure 2: NAIADES Website - Smartphone display

When accessing the website both on the smartphone or the computer, a pop-up appears at the bottom of the page, asking the visitor to either accept or decline the cookies policy (See Figure 3).



Figure 3: Pop-up Cookies Policy

3.2.1 Homepage

The homepage with the project logo is the first page appearing upon entering the website's address http://www.naiades-project.eu. It briefly describes the project and gives fast access to key project information through four tabs relative to the consortium, the deliverables, the project and the pilots. A "Tweets" section appears on the right, and is generated from a dynamic RSS feed based (See Figure 4) on the project's Twitter account. Furthermore, a quick access section for upcoming events below the four mentioned tabs allows users to gain an impression of future relevant events.

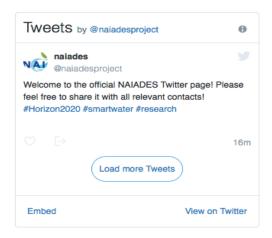


Figure 4: NAIADES RSS

The header (See Error! Reference source not found.) of the website consists of the NAIADES logo on the left and a quick access to the three social media profiles on the right, as well as of the following menu and submenus (shown above each page):

- Homepage (Home)
- Events
 - o Upcoming Events
 - Past Events
- Project
 - o About the Project
 - Expected Impact
 - o Pilot Use Cases
 - Picture Galleries
- Results
 - o Newsletters
 - Deliverables
 - o Presentations & Publications
 - 0
- Blog
- Consortium
- Contact







Figure 5: NAIADES Website Header

The bottom of each page of the website contains a footer (See Error! Reference source not found.6) containing the NAIADES logo, an additional design element well as links to the Facebook, Twitter and LinkedIn pages and information on the EU grant agreement. Below, the user can find a listing offering quick access to the privacy and cookies policy, the "About the Project" and "Consortium" page as well as to the contact form.



Figure 6: NAIADES Website Footer

3.2.2 Events

The "Events" section lists all the past and upcoming events in which the NAIADES project was or will be involved. The listing of each event contains title and date and is enriched by a visual to make the page more attractive to the visitor (See Figure 7). By clicking either on the name or the image of a specific event, the user can access a subpage with more detailed information such as a brief description and the location of the conference.

Past Events



Figure 7: Overview Design Events Page



3.2.3 Project

The Project menu is subdivided into 4 sub-sections which strive to provide a comprehensive overview of the NAIADES activities.

The page "About the Project" (See Error! Reference source not found.8) offers a brief description of the project and its objectives. It introduces the four application domains relevant to NAIADES including water consumption & efficiency, confidence of water consumers, safety & reliability, and personalised persuasive feedback and services.

The Project

NAIADES's vision is to support the modernization and digitization of water sector by providing a holistic solution for the control and management of water ecosystems. NAIADES aims to address the increased need for sustainable and eco-friendly water methodologies by defining a new ICT framework, with a wider scope than a sole technical proposition. Driven by the need to yield an end-to-end, uniform approach, NAIADES redefines water management by taking into consideration issues pertaining to cost, safety, complexity, vulnerability, societal acceptance, user behaviour and ethics.

NAIADES covers four application domains:



NAIADES aims to minimize the cost for water utilities by developing, implementing and integrating several innovative tools in the proposed ecosystem:

- Optimization of water consumption and smart water operation scheduling tool that will enable the optimization of water consumption in combination with real-time smart water planning;
- A personalized water behavioral change support mobile application, which will aim to enhance public awareness
 on water consumption and usage savings by providing the users with detailed information about their water
 consumption, thus aiming to enhance public awareness on water consumption and usage savings, promoting
 user engagement and enhancing user participation in water conservation activities;
- By developing and implementing the Water demand prediction Toolkit which will predict the water demand in
 order to save water resources, reduce operation and energy costs and greenhouse gases; and by the
 development and use of a single metadata harmonization tool which will contribute to the reduction of
 computation cost (by feature extraction, factor analysis, etc.).

All these innovative technological tools of NAIADES system will enable a radical transformation of the water sector making existing technologies more performant and therefore more cost-efficient and attractive for the market.

Figure 8: About the Project

The "Expected Impact" page summarises the general projected outcome of the project, and also provides a more detailed overview of the expected impacts for each of the work packages.

The "Pilot Use Cases" page delves into the three cities where the project's demonstrations will take place (i.e., Alicante, Brăila and Carouge). After a brief introduction of the general aim of the NAIADES use cases, each city is presented individually. The user can click either on the picture or the "View more details" button of each tab to obtain more details on each pilot (See Figure 9).





Figure 9: Pilot Use Case Tabs

At the bottom of the page, the three cities are positioned on a dynamic Google map (See Figure 10) to help the visitor locate them geographically.

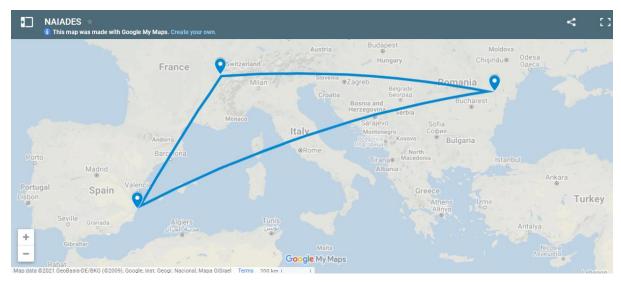


Figure 10: Map of Project Pilots

Finally, the submenu 'Picture galleries' (See Figure 11) displays photographs from relevant project events as well as from the pilots.



Picture Galleries



Alicante - Project meeting (January 2020)



Brăila



Carouge



Alicante

Figure 11: Picture Galleries

3.2.4 Results

The 'Results' section provides all the related NAIADES documented material. Three pages, reachable through the provided submenu, give access to the newsletters, the deliverables and to relevant presentations and publications (See Figure 12).

RESULTS ▼ BLOG CONSORTIUM

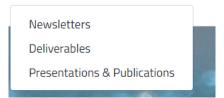


Figure 12: Results Submenu

The 'Newsletter' page presents a list with the project's newsletters. The user of the website can download the provided newsletters using the associated hyperlink to each issue.



Deliverables

The following page contains the list of the public NAIADES deliverables. The deliverables will be published after successful completion of the review.

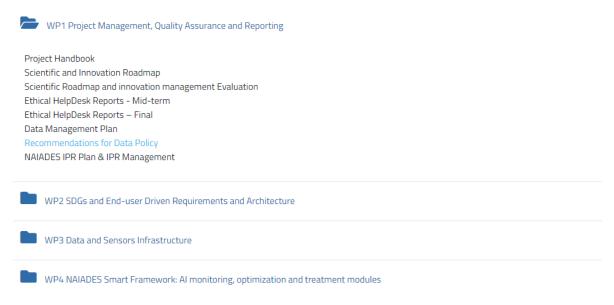


Figure 13: Deliverables Page

On the 'Deliverables' page (See Figure 13) all the project deliverables are listed. Once published, the public deliverables are made available for preview and download.

The 'Presentations & Published Papers' section of the website is subdivided into five categories, namely presentations, online resources, scientific publications, theses and published papers. They include a selection of the most relevant public resources produced by the NAIADES consortium. Each subsection provides a table including information on the date of publication, language, the general topic and the title of the resource as well as offering the option for downloading the relative document.

3.2.5 Blog

The "Blog" page provides access to contributions from the consortium partners that are being gathered as part of the dissemination activities. The listing on the main page provides the title and a brief introduction to each blog post (See Figure 14). By clicking either on the title or the supporting visual, the user can access the post in its entirety.



Blog



Laboratory plants for a better drinking water treatment

In drinking water supplies systems, water from natural courses is fully treated before being supplied to a distribution system from where it will go to consumers. Water treatments consists in sequential units to eliminate pollutants and pathogens. It usually includes pretreatment; coagulation, flocculation and sedimentation; filtration and disinfection. Performance models can help in understanding and predicting treatments effectiveness, especially in stream events when abstraction water changes like during storms or droughts.



Water consumption prediction - the NAIADES approach

The water consumption prediction has an important place within the water economy. For example, Alicante water utility, in order to be able to distribute potable water to its residents, needs to fill its water tanks. Due to lower energy prices, Alicante water utility is refilling their water tanks over the night – every night. In order to prevent bacteria development in potable water, water needs to be consumed – or disposed (a loss).



NAIADES – defining use cases to improve water management via digital innovations

The NAIADES project envisions the use of digital innovations for improved water management in three pilots in Europe, Alicante (Spain), Braila (Romania) and Carouge (Switzerland). An important step in the project is the identification of needs and the subsequent definition of use cases. This task, carried out by IHE in collaboration with all the partners in the project, promoted discussions among partners and stakeholders during the first half of the project, which complemented the findings of earlier visits made to the pilots of Alicante and Braila.

Figure 14: NAIADES Blog with Contributions of Partners

3.2.6 Consortium

The consortium page consists of two components. First, all members of the NAIADES project are presented in a visual way through the use of an interactive map. By clicking on each of the location tags, the user can access the respective partner's information such as name, logo, link to website and country (See Figure 15)



Figure 15: Consortium Map



Under the map, all partners are listed in a dedicated table, including the logo, the name of the partner and the location (See Figure 16). To access the organization's website, the user can simply click on the logo to be redirected to the respective site.

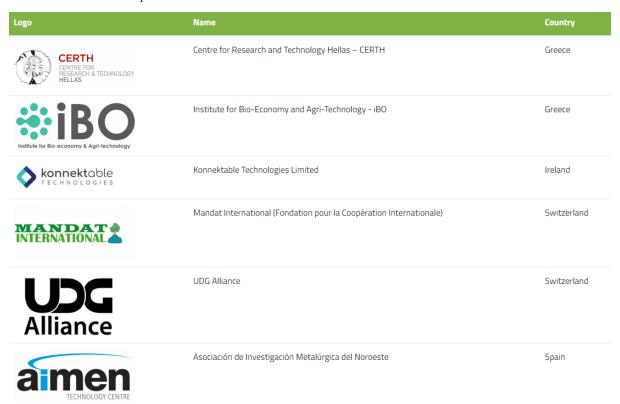


Figure 16: List of NAIADES Partners

3.2.7 Contact

The 'Contact' Page allows the visitor to fill in a form to directly contact NAIADES representatives. Messages sent via the contact form are forwarded to contact@naiades-project.eu. All received messages at this address are redirected to the respective project partners (CERTH, the coordinator, and the WP9 lead, Mandat International) which are charged with answering to the requests. Next to the contact form, there is also a quick access to the social media platforms of the project and upcoming events (See Figure 17).

Contact

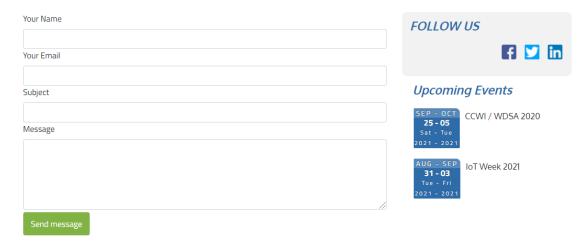


Figure 17: Overview of Contact Page with Form and Direct Access to Social Media and Upcoming Events



4 Statistics

The NAIADES website managed to attract increasing number of visitors over the advancing of the project (See Figure 18). Indeed, whereas between M3 to M7, an approximate number of 1,200 users visited the web page, in year two of the project (M8 to M19), already around 8,500 people interacted with the website. These numbers rose further in the first six-month period of year three (M20 to M25), during which a total amount of roughly 6,700 visitors could be recorded. This corresponds to an increase of 58%.

2019

	S	ummary			
Reported period First visit Last visit	Year 2019 26 Aug 2019 - 11:59 31 Dec 2019 - 23:25				
	Unique visitors	Number of visits	Pages	Hits	Bandwidth
Viewed traffic *	<= 1,177 Exact value not available in 'Year' view	1,793 (1.52 visits/visitor)	4,632 (2.58 Pages/Visit)	35,674 (19.89 Hits/Visit)	1.62 GB (944.88 KB/Visit)
Not viewed traffic *			1,607	2,881	16.12 MB

^{*} Not viewed traffic includes traffic generated by robots, worms, or replies with special HTTP status codes.

2020

	S	iummary			
Reported period First visit Last visit	Year 2020 01 Jan 2020 - 00:20 31 Dec 2020 - 23:43				
	Unique visitors	Number of visits	Pages	Hits	Bandwidth
Viewed traffic *	<= 8,511 Exact value not available in 'Year' view	15,754 (1.85 visits/visitor)	67,500 (4.28 Pages/Visit)	204,372 (12.97 Hits/Visit)	9.10 GB (605.65 KB/Visit)
Not viewed traffic *			16,857	27,145	105.00 MB

^{*} Not viewed traffic includes traffic generated by robots, worms, or replies with special HTTP status codes.

2021

	s	ummary			
Reported period First visit Last visit	Year 2021 01 Jan 2021 - 00:05 30 Jun 2021 - 17:10				
	Unique visitors	Number of visits	Pages	Hits	Bandwidth
Viewed traffic *	<= 6,724 Exact value not available in 'Year' view	15,868 (2.35 visits/visitor)	34,899 (2.19 Pages/Visit)	109,211 (6.88 Hits/Visit)	9.70 GB (640.77 KB/Visit)
Not viewed traffic *			15,637	24,372	99.75 MB

^{*} Not viewed traffic includes traffic generated by robots, worms, or replies with special HTTP status codes.

Figure 18: Overview of Development of Visitors on the NAIADES Website from August 2019 to June 2021



	Countries				
Countries		Pages	Hits		
United States	us	12,630	27,445		
China	cn	5,124	7,621		
Russian Federation	ru	2,450	2,969		
Germany	de	1,850	4,375		
9 Unknown	unknown	1,637	10,028		
France	fr	1,303	3,514		
Ukraine	ua	1,204	1,649		
Switzerland	ch	929	5,966		
Spain	es	680	6,385		
∰ Great Britain	gb	655	3,457		
Czech Republic	CZ	514	1,224		
Netherlands	nl	488	2,165		
India	in	479	1,451		
i Canada	ca	430	1,403		
Romania	ro	430	3,766		
Greece	gr	337	3,868		
Belgium	be	314	2,334		
I taly	it	304	2,168		
Moldova	md	291	414		
I reland	ie	238	936		

Figure 19: List of Top 20 Countries Visitors Accessed the Website from between January and June 2021

Regarding the country domains visitors accessed the website from, it can be noted that between January and June 2021 most hits were made from the United States, China and Russia. However, all countries of origin of the consortium partners, except Slovenia and Estonia, are present in the top 20 visitors (See Figure 19).

5 Conclusion

Currently, the NAIADES website is one of the most essential dissemination tools. Throughout the project, the NAIADES consortium is continuously updating the contents of the website, notably by providing blogposts for the "Blog" page and adding information about upcoming events to the "Events" section. In particular, newly produced dissemination material as well as publications and public deliverables are regularly being added to the 'Results' section, in order to offer the user a comprehensive overview of the new accomplishments of the project. Moreover, other relevant pages such as the "Events" section and the "About the Project" page are also being updated whenever needed.

The website content is continuing to grow and evolve with the project. New inputs are keeping the website visitors informed of upcoming events, achieved results and other relevant topics.

