



PROJECT DELIVERABLE REPORT



Greening the economy in line with
the sustainable development goals

D9.6 NAIADES Dissemination Activities Report – Mid-term

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

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PO Comment	NAIADES answer
This report is partly copy-pasted from D9.1, while it should focus on dissemination and not communication.	While it is true that the NAIADES communication and dissemination activities are carried out in parallel and that there may be some overlaps, we have made the methodological decision to use the European Commission's definition of dissemination as the 'the public disclosure of the results by any appropriate means (other than resulting from protecting or exploiting the results), including by scientific publications in any medium'. For this reason, the deliverable focuses on the following ways to transfer scientific results: public deliverables, NAIADES website, conference articles, publications, workshops, trainings, events.
The title from D9.1 remained on the front page.	This error has been rectified.
Dissemination KPI should be specified (in time also) and activities performed so far should be compared to KPIs	This comment has been addressed by specifying the dissemination KPIs in time (see chapter 3 and tables 2 and 3), and also outlining the activities performed so far compared to KPIs (chapter 6). The conclusion has also been revised with additional plans for new period.

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1 Summary

The present deliverable D9.6 NAIADES Dissemination Activities Report – Mid-term presents all the dissemination activities carried out by the project by M10 – expected delivery date of the report.

More specifically discusses the achievements in the following areas:

- Project website
- Articles, publications and SDO contributions
- Events participation
- Future dissemination activities

This is a living document to accommodate any customisation required. The dissemination planning will thus be constantly evaluated and revised in the course of the project duration.

2 Introduction

The NAIADES D9.6 ‘Dissemination Activities Report – Mid-term’ seeks to provide an overview of the dissemination progress carried out by M10 and to present the future dissemination plans.

As described in the Plan for Dissemination in D9.4, dissemination is an important component of the NAIADES project research sequence and is directly dependent on the project’s research and technical development. Dissemination activities carried out by M10 required a strong and close collaboration and involvement of all the members of the consortium. As seen in Figure 1, dissemination is a product of research and technical development and, supports alongside standardisation, exploitation and communication the project’s overall outreach.

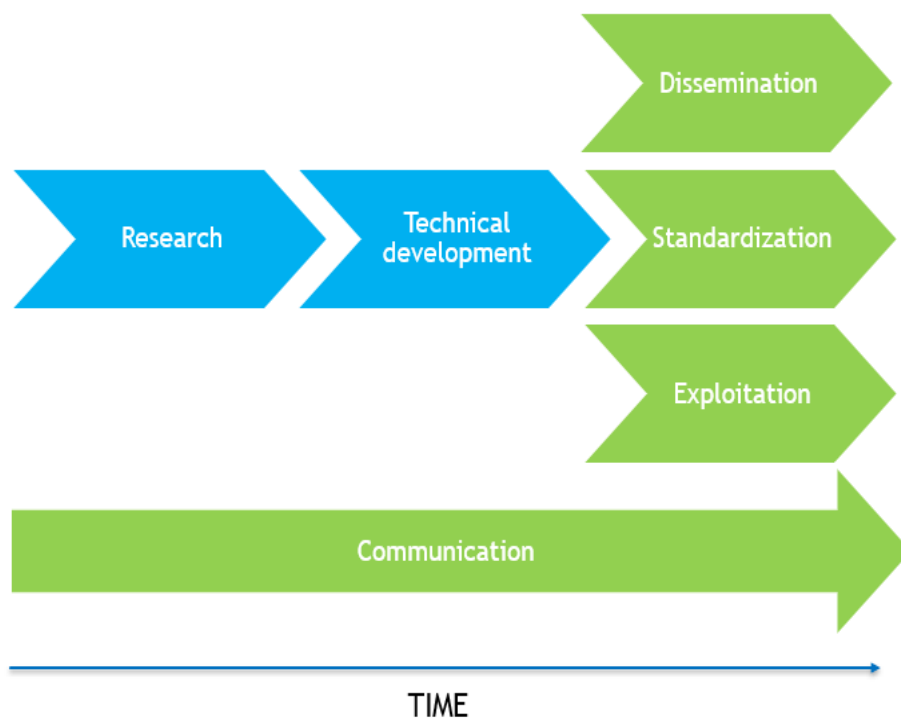


Figure 1: NAIADES Project Sequence

2.1 General Dissemination Objectives

The European Commission defines dissemination as "the public disclosure of the results by any appropriate means (other than resulting from protecting or exploiting the results), including by scientific publications in any medium"¹. In more general terms, according to the European Commission, the objective of dissemination is "to transfer the knowledge & results with the aim to enable others to use and take up results, thus maximising the impact of EU-funded research"².

As a reminder, the following dissemination channels have been previously identified in D9.4:

- Public deliverables
- The NAIADES website
- Conference articles
- Publications
- Workshops
- Trainings
- Events

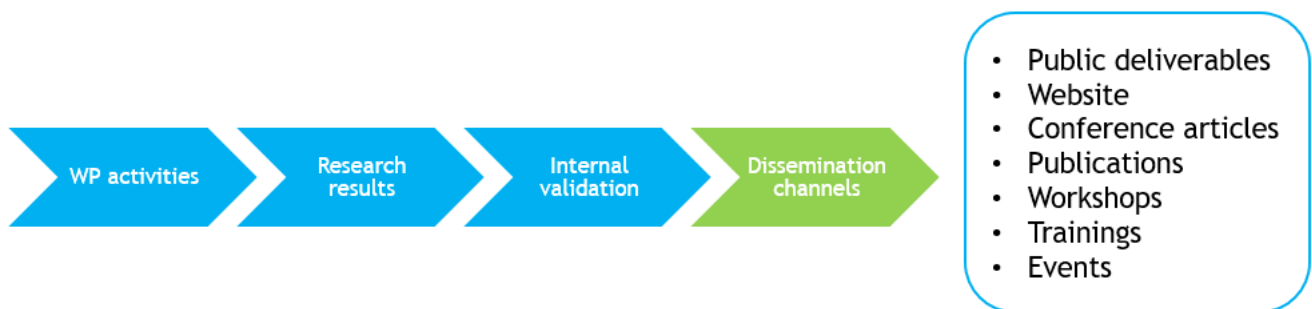


Figure 2: Dissemination Process

2.2 Objectives of D9.6

The following deliverable is going to present the main achievements of the NAIADES project in terms of dissemination, including achievements such as: the website, conference articles and publications, and events. It will also discuss future dissemination plans. It is noteworthy to point out that in spite of being erroneously entitled 'Mid-term', the present deliverable only covers the activities carried out in the timeframe M1-M10 (expected deliverable submission date) of the project lifetime. As requested by the European Commission, communications activities reporting is covered separately, in D9.1.

¹ <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/support/glossary>

² <https://www.iprhelpdesk.eu/sites/default/files/EU-IPR-Brochure-Boosting-Impact-C-D-E.pdf>, p. 13

3 Dissemination KPIs

The KPIs for outreach activities have been defined in the proposal stage and cover various areas including project documentation, project publications, online presence and events. The following table provides a summary of the dissemination-specific KPIs and the main target stakeholders, extracted from Table 2.2.5 “NAIADES Dissemination and Communication summary chart” in the Description of Actions. For communication KPIs, please refer to D9.1.

The table below serves as the main reference for monitoring and evaluation purposes for dissemination activities.

Table 1: NAIADES Dissemination KPIs and Target Stakeholders

Dissemination supports and channels	KPIs	Main Target Stakeholders		
		Technology providers	End-users	Facilitators
Articles and proceedings	3 publications per year (on average)	O	X	O
Project deliverables	See list of deliverables	X	X	X
Open access repository	1 deposit per year	X	O	O
Project website	1 website, monthly updated	X	X	X
Related websites	10&	Depending on specific website		
Presentation and feedback sessions	3	X	O	O
Training sessions	3	O	X	X
External events	30&	Depending on specific event		
Caption				
X	Main target			
O	Secondary target			

In order to organise and monitor the dissemination work, the KPIs follow a clear delivery schedule, as specified in the table below. In the reporting period M1-M10, which covers the activity period until the expected submission of this deliverable, the Consortium has pursued their collective efforts to meet the KPIs defined in the Description of Actions. In M10, four of the KPIs have been met (articles and proceedings, project deliverables, project website, related websites). The remaining KPIs are in progress (the reporting period is up to M10 and doesn't cover the entire first year) and will be further reported in the next deliverable.

Table 2: Dissemination KPIs, Expected Scheduling and Status by M10

Dissemination supports and channels	KPIs	Schedule	Status in M10
Articles and proceedings	3 publications per year (on average)	3 publications by the end of M12, 3 publications by the end of M24 and 3 publications by the end of M36.	5 in year 1
Project deliverables	See list of deliverables	Submitted by the dates indicated in the Grant Agreement	Deliverables have been submitted.
Open access repository	1 deposit per year	At least 1 deposit by the end of M12, 1 deposit by the end of M24, and 1 deposit by the end of M36	To be defined with Consortium by M12
Project website	1 website by M3, monthly updated	Monthly updates, as necessary	Website created by M3, further updates to be carried out
Related websites	10&	At least 10 related websites by the end of M12	18
Presentation and feedback sessions	3	By M33	To be organised by M33
Training sessions	3	Between M30-M36	To be organised between M30-M36 at the IoT Week and dedicated events
External events	30&	By M36	6 by M10

4 Dissemination Achievements (M1-M10)

The following section presents the dissemination achievements regarding the project website, articles, publications and contributions to SDOs and attended events in the reporting period M1-M10.

4.1 Project Website

The NAIADES website is the main channel for disseminating the project's objectives, pilot use cases, activities and results to a wide audience. It assists the dissemination activities by boosting public awareness and guaranteeing maximum visibility of the project by sharing key facts, objectives, activities and findings, not only with the scientific community but also with the public at large.

The NAIADES website was developed in M3 by MI. For additional information about the website content, functionalities and design, please refer to D9.3 Project Website.

In order to monitor the website activity, MI keeps track of the website visits history and will share the progress. The two figures below show the website activity in 2019 and 2020, i.e., the first 8 months since the website was published. In 2019, between M3-M7, the NAIADES website recorded 1,177 unique visits, 1,793 visits in total. In 2020, from M8-M10, 1,544 unique visitors accessed the website, while the total number of website visits rose to 2,583. This amounts to a total of 2,721 unique visitors and 4,376 visits in total in the period M1-M10. Additionally, the NAIADES website recorded a total of 24 backlinks and 17 referring domains in the aforementioned period (and thus, fulfilling the 'related websites' KPI).

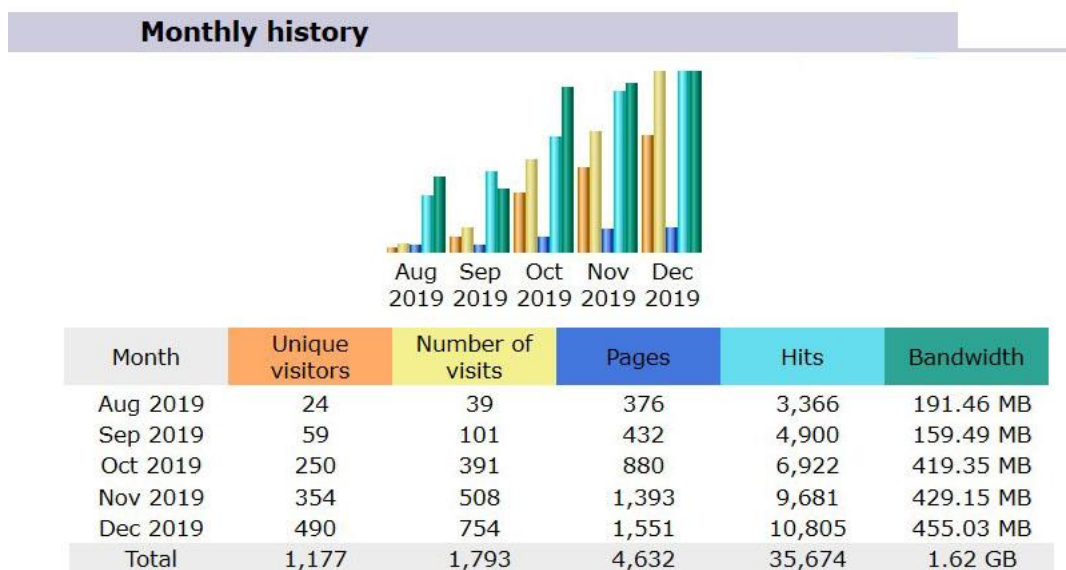


Figure 3: NAIADES Website Visits in 2019 (M3-M7)

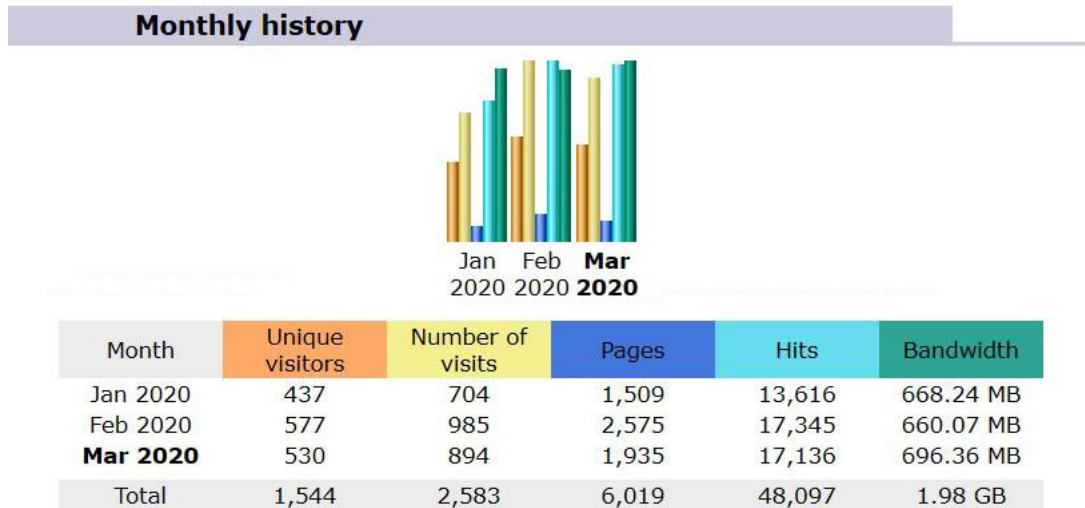


Figure 4: NIAADES Website Visits in 2020 (M8-M10)

The average time users spend on the NIAADES website amounts to 133 seconds. The figure below gives a more detailed overview of the visits duration, number of visits and respective percentage of visitors.

Visits duration

Number of visits: 953 - Average: 133 s

Duration	Number of visits	Percent
0s-30s	820	86 %
30s-2mn	40	4.1 %
2mn-5mn	25	2.6 %
5mn-15mn	26	2.7 %
15mn-30mn	12	1.2 %
30mn-1h	18	1.8 %
1h+	7	0.7 %
Unknown	5	0.5 %

Figure 5: NIAADES Website Visits Duration

In terms of the NIAADES website’s visitors’ geographical distribution, the great majority is from the USA, followed by Germany, Great Britain, France and Switzerland (see figure below).

Countries (Top 10) - Full list

Countries	Pages	Hits
United States	748	5,841
Unknown	206	2,205
Germany	199	2,018
Great Britain	112	449
France	107	640
Switzerland	76	619
China	72	397
Republic of Serbia	72	1,189
Russian Federation	68	137
Greece	68	1,172
Others	330	3216

Figure 6: NIAADES Website Visits per Country

4.2 Articles, Publications and SDO Contributions Reporting

It is expected that the NAIADES project will result in a number of publications in scientific, peer reviewed journals. Project partners have been encouraged to collaborate with each other and jointly prepare publications relevant to the NAIADES project. MI prepared a dissemination spreadsheet for all the consortium to continuously update and report on articles and papers, standardisation contributions, publications, keynotes and scientific presentations. The two tables below present the publications and contributions reported by the NAIADES partners.

In the activity period M1-M10, two publications were delivered by the partners. Furthermore, three contributions to Standard Developing Organisations (SDOs) were submitted in this time framework, two to ETSI and one joint contribution to the ITU. Future planned publications are presented in section 5.

Table 3: NAIADES Publications (M1-M10)

Document Title	Document Type	Publication Date	Conference / Journal / Publisher	NAIADES %	Consortium Contributors
Usage of Statistical Modeling Techniques in Surface and Groundwater Level Prediction	Scientific Paper	15.11.2019	Journal of Water Supply: Research and Technology - AQUA - https://iwaponline.com/aqua	80%	JSI
Urban WDN Optimization Considering Uncertainty of Fire Events	MSc thesis	01.02.2020	University of Cassino, Italy	60%	IHE

Table 4: NAIADES Contributions to SDOs (M1-M10)

Document Title	Document Type	Submission Date	Organization	NAIADES related %	Consortium Contributors
Definition of the requirements for SAREFWATR	Contribution to SDO	30.11.2019	ETSI	100%	EUT
Updates on the version of SAREF4WATR	Contribution to SDO	28.02.2020	ETSI	100%	EUT
Updates on draft Supplement ITU-T Y.Sup.AI4IoT “Unlocking Internet of Things with Artificial Intelligence”	Contribution to SDO	24.03.2020	ITU	100%	MI, EUT, AIMEN

4.3 Conferences and Events Reporting

As per the Dissemination Plan, the organisation and participation in project events are part of planned dissemination activities. The research community, industrial stakeholders and other relevant target groups of NAIADES participate in those conferences. For this reason, partners are strongly encouraged to attend relevant conferences and events and inform the participants about the project and its development. MI prepared a dissemination spreadsheet for all the consortium to continuously update and report on relevant events they have attended. The table below presents the publications and contributions reported by the NAIADES partners.

In the time period M1-M10, the partners have attended 6 relevant water-related events. Further events are planned in the future and are presented in section 5.

Table 5: List of Attended Events (M1-M10)

No	Event Name	Date	City, Country	Category of Dissemination	Type of audience / Target stakeholders	Approx. size of audience	Partner(s) involved
1	ICT4Water Cluster Annual Event	10-11 June 2019	Brussels, Belgium	Presentation to gather requirements for SAREF-WATR	industry, academy, EC	>200	CERTH, ADSYS, EUT
2	Smarter Catchment Monitoring, Cleaner waters	4-7 September 2019	London, UK	Presentation of Interoperability and standardization roadmaps	industry, academy, EC	>201	EUT
3	Expo APA 2019	23-25 September 2019	Bucharest, Romania	Suppliers and Water Companies	industry, academy, EC	>250	ARA, IWA
4	AQUATECH Conference	2-5 November 2019	Amsterdam, Netherlands	Visitor	industry, academy, EC	>1000	EUT
5	Smart Water 2019	15 November 2019	Le Châble, Switzerland	Visitor	academy, communal authorities, SMEs, companies, etc.	250	MI
6	IWA Young Water Professional's Congress	12-15 December 2019	Madrid, Spain	Visitor	Every water sector stakeholder	>250	AMAEM

5 Future Activities

5.1 Future Publications

In the dissemination reporting table provided by MI, partners were also able to report on the expected future publications. In the post-M10 period, five publications can be noted: two scientific presentations, one academic paper, one conference paper and one keynote. The table below gives an overview of the future publications and their intended publication dates.

Table 6: Future NALADES Publications

Document Title	Document Type	Publication Date	Conference / Journal / Publisher	NAIADES %	Consortium Contributors
ICT4WATER Cluster Annual Meeting	Keynote	16.06.2020	ICT4WATER Conference	100%	EUT
Interaction mechanisms and analysis of spatial data streams for municipal water suppliers	Scientific Presentation	21.06-26.06.2020	IFORS - http://www.ifors2020.kr/	90%	Disy
Spatial Operators for Complex Event Processing	Scientific Paper with Presentation	07-10.07.2020	GI_Forum Symposium for Geographic Information Science https://gi-forum.org/	70%	Disy
An overview of the EU regulatory regime for the protection of Critical Infrastructures and of Critical Information Infrastructures against cyber incidents. The case of the health sector in particular	Academic paper (legal)	To be submitted	To be submitted in an international academic (legal) peer-reviewed journal	70%	VUB-LSTS
Generating big data of responses to critical events in urban systems	Conference paper	Under review	HIC 2020	100%	IHE, AMAEM

5.2 Future Events

In the events reporting table provided by MI, partners were also able to identify the following five upcoming events they intend to attend. It is important to point out that in light of the current events related to the COVID-19, the dates, location and participation to these future events are subject to change and will be assessed on a continuous basis.

Table 7: Future Events

No	Name of the event	Type	Dates	Location	URL	Focus/target stakeholders	Relevance to NAIADES	Partner attending
1	Expo APA 2020	Water Loss Conference	25-27 May 2020	Bucharest, Romania	www.araromaqua.ro	Suppliers and water industries	ARA, IWA	SIVECO
2	IoT Week 2020	Conference	TBC	Dublin, Ireland	www.iotweek.org	Industry, academy, EC	Sessions on SDGs and water management	MI, UDG
3	ICT4WATER Cluster Annual Meeting	Keynote	16 June 2020	Brussels, Belgium	www.ict4water.eu	Industry, academy, EC	Conference on ICT4WATER interoperability & standardization	EUT
4	Workshop zu Künstliche Intelligenz in der Umweltinformatik	Workshop	29 September - 1 October 2020	Karlsruhe, Germany	https://umwelt-ki.de/	Academy, Public	Workshop for scientific community in field between CS and environment	DISY
5	Hydroinformatics Conference 2020	Oral presentation	11 - 15 January 2021	Mexico City, Mexico	https://hic2020.org/	Academia	Water modelling approaches and ICT for water	IHE

In addition to the planned events, three relevant WP related events have been identified by the Consortium in the future, and shall be considered by the partners in the framework of their respective WP activities. The dates of these events are also subject to change due to the COVID-19 situation.

Table 8: Other Future WP Related Events

No	Name of the event	WP	Dates	Location	URL	Focus/target stakeholders	Target of event
1	iFORS 2020	WP3	21 - 26 June 2020	Seoul, South Korea	http://www.ifors2020.kr/	Academia, Business	Academia
2	GI_FORUM 2020	WP3	07-10 July 2020	Salzburg, Austria	https://gi-forum.org/	Academia, Government, Business in Spatial Domain	Academia, Government, Business in Spatial Domain
3	Hydroinformatics Conference 2020	WP4	26 - 30 July 2020	Mexico City, Mexico	https://hic2020.org/	Academia	Academia

5.2.1 Webinars, Tutorials, Training Activities and Hackathons

Partners will be solicited to organise webinars, tutorials and training activities to share the knowledge and expertise acquired throughout the course of the project with targeted audiences. All partners will be invited to participate, however emphasis will be put on the three pilot cities to partake and contribute.

MI has started exploring the possibility of organising a hackathon on smart water and SDGs in the context of the future edition of the IoT Week conference in 2021. NAIADES will have an exposition booth throughout the event to promote the project activities to the general audience. Furthermore, MI is currently

planning sessions on smart water and sustainable development, and is currently working on defining the list of speakers, to which the NAIADES partners will be invited to share their knowledge and expertise. Furthermore, the conference will give the interested technical partners the opportunity to offer training activities to the audience. Partners will be approached regarding their possible roles and participation in the event.

6 Status of Dissemination KPIs (M18, mid-term)

As part of an update on the status of the dissemination activities progress, we elaborate on the achievements up until M18 (mid-term of the project). The following table offers a summary of the dissemination achievements against their related KPIs and their expected schedule in time. As seen in the status column, the dissemination activities are well on track, with 7 KPIs being successfully met. Unfortunately, due to covid-19 constraints, some of the NAIADES planned activities, such as the training and feedback sessions had to be postponed and will be carried out in the second reporting period, either physically or remotely.

Table 9: Dissemination KPIs Achievements (M18, mid-term)

Dissemination supports and channels	KPIs	Schedule	Status in mid-term (M18)
Articles and proceedings	3 publications per year (on average)	3 publications by the end of M12, 3 publications by the end of M24 and 3 publications by the end of M36.	8 publications and 3 contributions to Standards Developing Organisations (SDOs) 8 blog posts published on the website presenting the work carried out in NAIADES. Additional blog posts to be submitted in next term.
Project deliverables	See list of deliverables	Submitted by the dates indicated in the Grant Agreement	45 deliverables have successfully been submitted
Open access repository	1 deposit per year	At least 1 deposit by the end of M12, 1 deposit by the end of M24, and 1 deposit by the end of M36	Open Access repository on CKAN server created. 1 deposit made. More publications to be added in the next term.
Project website	1 website by M3, monthly updated	Website created by M3, monthly updates, as necessary	1 website created by M3 and updated as required.
Related websites	10&	At least 10 related websites by the end of M12	18 related websites
Presentation and feedback sessions	3	By M33	3 NAIADES presentations. Feedback sessions to be organised by M33.
Training sessions	3	Between M30-M36	To be organised between M30-M36 at the IoT Week and dedicated events
External events	30&	By M36	19 events by M18

7 Conclusion

The NAIADES D9.6 'Dissemination Activities Report – Mid-term' sought to provide an overview of the dissemination progress carried out by M10, and to present the future dissemination plans.

In the reporting period M1-M10, the Consortium has pursued their collective efforts to meet the KPIs defined in the Description of Actions. In M10, four of the KPIs have been met (articles and proceedings, project deliverables, project website, related websites). The remaining KPIs are currently in progress and will be further reported in the next report.

The status of the dissemination activities in M18 has been presented. In the upcoming second phase of the project's lifetime, the dissemination strategy will be focused on actively reaching out to targeted stakeholders and to the public to generate interest and demand for the NAIADES activities and outcomes. For the second phase of the project, NAIADES will produce additional publications (individual and joint). The work on a joint publication on Smart Water Management for the Springer IoT Handbook is under development coordinated by MI and is expected to be finalized in the second half of the project. In spite of the restrictions related to the Covid-19 pandemic, participation in events will be encouraged. MI is planning a dedicated session on smart water management at the IoT Week 2021 and at the Digital Around the World event, in collaboration with the Digital Water 2020 Cluster. Moreover, 3 training and 3 feedback sessions will be organized in the second half of the project, in collaboration with the technical partners and pilots.

The dissemination activities will seek to create further synergies and collaboration opportunities with relevant partners and projects.