D6.14 Webinars and eLearning materials

Natacha Amorsi (OiEau)

24/05/2022
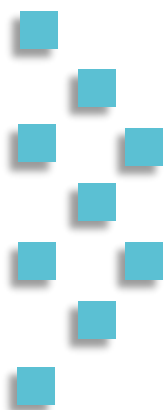
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Executive Summary

The deliverable n°6.14 *Webinars and eLearning materials* presents Fiware4Water (F4W) e-materials put into place by the partners in order to promote the project's outcomes and exchange with potentials end-users, over the last year of the project (June 2021-May 2022). This document is linked to Work Package 6, task 6.1 Communication and Dissemination of Project Outcomes.

Fiware4Water e-learning materials refer to the on-line events, their related recordings and the e-documents. All Fiware4Water e-materials are available on https://www.fiware4water.eu/deliverables.

During the first year, 3 webinars and 1 workshop took place. During the second year, 6 webinars were organised (5 public and 1 private), 3 on-line sessions within demo case#4 took place on local water forum and the DigitalWater2020 synergy group organised its first webinar. The activity of the last year is presented below in the tables. The objective of 9 webinars set in F4W description of work for the entire duration of the project has been reached and beyond.

Over the last year, due to the COVID19 situation, the emphasis was put on on-line workshops as a mean to present, discuss and engage with stakeholders. When possible, the workshops were recorded and made available on F4W website. Partners have also participated to on-line events organised by DW2020 projects. A series of 9 interview-videos was produced with F4W partners explaining the different dimensions of Fiware4Water, the technological and non-technological solutions developed. Finally, e-documents targeting experts and non-experts were delivered (see tables below).

Fiware4Water on-line events and e-materials delivered during t

WORKSHOPS				
Title	**Date**	**Participants**	**Organisation**	**Partners involved**
Demo Network 2 workshop "How digital solutions can contribute to the implementation of EU water policies?"	09/12/2021	130	OiEau and INBO	OiEau, EGM, KWR, EYDAP, SWW, FIWARE, BDG
Workshop #1 -Socio-political and citizen engagement on digital water	07/01/2022	Up to 50	EURECAT	EURECAT, Exeter, BDG, OiEau
Workshop #2 - Population of FIWARE platform on the water sector	04/02/2022	Up to 50	FIWARE	Fiware, EURECAT, EGM, OiEau
Workshop #3 - How AI, ML, Water Data modelling could support smart management of water?	04/03/2022	Up to 50	EURECAT	EURECAT, EGM, KWR, Waternet, FIWARE, EYDAP, OiEau
Workshop #4 - Digital water and EU policies	19/05/2022	Up to 40	KWR, EURECAT	EURECAT, KWR, EGM, Exeter, Waternet, OiEau

PARTICIPATION AND JOINED EVENTS WITH THE DW2020 SYNERGY GROUP			
Date	**Title**	**Lead organiser**	**Format**
27/04/22	Digitisation of the Water Sector related to Software & AI Naiades	Naiades	Webinar #6
17/03/22	Water Sustainability: From Consumer Awareness to Behavioural Change Support	Naiades	Webinar #5
03/03/22	Data models with the FIWARE platform for the water sector	DWC	Webinar
15/02/22	Event Detection in the Water Sector	Naiades	Webinar #4
28/01/22	Smart Water Management in Cities	Naiades	Webinar #3
20/01/22	Community of Practice for the water sector	DWC	On-line
14/12/21	Smart Water Solutions for SDGs	Naiades	Webinar #2
16/11/22	IoT Technologies for Smart Water Systems	Naiades	Webinar #1

INTERVIEW-VIDEOS				
Title	**Date**	**Speaker**	**Role in F4W**	**Organisation**
F4W - General presentation	09/2021	Sonia Siauve	Project coordinator	OiEau
F4W - Scientific presentation	10/2021	Lydia Vamvakeridou-Lyroudia	Scientific and technical coordinator	KWR
F4W - What is digital water?	10/2021	Lluis Echeverria	WP3 leader, smart applications and devices	EURECAT
F4W - Demo case 1: Athens	10/2021	Vasiliki Polychniatou	Demo case 1 leader	EYDAP
F4W - Demo case 3: Amsterdam	11/2021	Alex van de Helm	Demo case 3 leader	Waternet
F4W - Demo case 4:Great Torrington	11/2021	Joshua Pocock	Demo case 4 leader	SWW
F4W - Demo network 1: Municipalities *(private)*	11/2021	Ciprian Nanu	Demo network 1 leader	BDG
F4W - Demo network 2: River basin organizations	12/2021	Eric Tardieu	Demo network 2 representative	INBO
F4W - Social and political engagement	12/2021	Richard Elelman	WP5 leader, Socio-political impact	EURECAT

E-DOCUMENTS			
Title	**Date**	**Deliverable number**	**Authors**
E-book #1 - Digital water for non-experts	02/2022	Deliverable n°6.8	Amorsi Natacha (OiEau), Deveughele Stéphane (Suez), Echeverria Lluis (EURECAT), Elelman Richard (EURECAT), Nanu Ciprian (BDGroup), Pocock Joshua (South West Water), Polychniatou Vasiliki (EYDAP), Siauve Sonia (OiEau), Angeles Tejado (FIWARE), Vamvakeridou-Lyroudia Lydia (KWR)., van der Helm Alex (Waternet)
Social innovation factsheet#2 Fiware4Water outcomes about digital water	02/2022	Deliverable n°6.11	Natacha Amorsi (OiEau), Kate Baker (Univ. of Exeter), Albert Chen (Univ. of Exeter), Richard Elelman (EURECAT), Alex van der Helm (Waternet), Fernando Lopez (FIWARE Fundation), Theresia Meltzer (TZW), Ciprian Nanu (BDGroup), Vasiliki Polychniatou (EYDAP), Lydia Vamvakeridou-Lyroudia (KWR)
E-book #2 - Digital water from technological and non-technological dimension	05/2022	Deliverable n°6.8	Amorsi Natacha (OiEau), Deveughele Stéphane (Suez), Echeverria Lluis (EURECAT), Elelman Richard (EURECAT), Nanu Ciprian (BDGroup), Pocock Joshua (South West Water), Polychniatou Vasiliki (EYDAP), Siauve Sonia (OiEau), Angeles Tejado (FIWARE), Vamvakeridou-Lyroudia Lydia (KWR)., van der Helm Alex (Waternet)

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Related Deliverables

D6.1, D6.15, D6.16: Fiware4Water communication and dissemination strategy towards a water smart society

D6.2: Communication kit including a website, social media and leaflets

D6.3: E-newsletter

D6.4, D6.13: Webinars and eLearning materials M12, M24

D6.7, D6.15, D6.16: Fiware4Water communication and dissemination report

D6.8: E-Book, M28

D6.12: Social Innovation factsheet on Fiware4Water outcomes about digital water

All the public deliverables are available on: https://www.fiware4water.eu/deliverables

Document Information

Programme	H2020 – SC0511-2018
Project Acronym	**Fiware4Water**
Project full name	FIWARE for the Next Generation Internet Services for the WATER sector
Deliverable	**D6.14: Webinars and eLearning materials**
Work Package	**WP6: Ecosystem building for communication and dissemination strategies and activities**
Task	**Task 6.1:** Communication and dissemination of project outcomes (OiEau, all) M1-M36
Lead Beneficiary	P1: OiEau
Author(s)	Natacha Amorsi (OiEau)
Contributor(s)	
Quality check	Angeles Tejado (FIWARE Foundation)
Planned Delivery Date	M35 (04/22)
Actual Delivery Date	M36 (05/22) – due to the date of the last F4W workshop (19/05/2022), the deliverable could not produced at M34
Dissemination Level	Public

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List of Acronyms/Glossary

CS	Case study
DW2020	DigitalWater2020 Synergy Group
F4W	Fiware4Water project
Work Package	WP
EGM	Easy Global Market
INBO	International Network of Basin Organisation
SWW	South West Water

Introduction

Fiware4Water (F4W) Work Package 6 (WP6) is dedicated to the Ecosystem building for communication and dissemination strategies and activities. This deliverable refers to the organisation of F4W webinars and e-learning materials related to WP6 Task 6.1 Communication and Dissemination of Project Outcomes.

Deliverable n°6.14 *Webinars and e-learning materials* presents the on-line events organised by the partners, the ones they participated as speakers, the series of F4W interview-videos and the e-documents developed by F4W during the third year of the project (June 2021 to May 202).

Over the duration of the project and according to the F4W communication strategy, at least 9 webinars should be put into place over the duration of the project. During **the first year** of the project, 3 webinars and 1 workshop were organised by the partners on behalf of F4W. During **the second year**, 6 webinars were organised (5 public and 1 private), 3 on-line sessions within demo case#4 took place on local water forum and the DigitalWater2020 synergy group organised its first webinar. During **the last year**, due to the COVID19 situation, the emphasis was put on on-line workshops as a mean to present, discuss and engage with the stakeholders. When possible, the workshops were recorded and made available on F4W website. Fiware4Water organised 5 workshops, co-organised 1 and participated to 6 with the DW2020. 9 interview-videos and 3 key e-documents were produced[1].

The first section of the report presents an overview with the pre-set objectives as described in the description of work, key actions taken during the last year and tips on E-learning materials. Section II presents the 5 workshops organised by F4W. Section III presents the participation of F4W to on-line events organised by other DW2020 projects as well as the joined event, which took place in February 2022. Finally, the fourth section presents the e-documents delivered over the period.

I. Overall view

I.1. Pre-set objectives

As described in the description of work, partners had to deliver a number of webinars and e-learning materials during the three years of the project (2019-2022). The purpose of these on-line events is to present the progress of the project to specific targets (developers, SMEs, researchers, water utilities, citizens, etc.), gather feedbacks and provide insight to implement iterations of the project development, testing and evaluation. All recorded sessions from these various webinars/workshops held during the project are available on F4W website and will remain available after the end of the project[2].

According to the KPIs set at the beginning of the project, a number of 9 webinars were planned for the entire duration of the project. Apart from this indication, no numerical targets were set for the e-learning materials.

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[1] All the e-learning materials are available on https://www.fiware4water.eu/deliverables

[2] https://www.fiware4water.eu/deliverables#webinars

I.2. Key actions during year 3

Webinars and e-learning materials are perceived as communication and engagement tools to be used at the best moment according to the progress and needs of the project. The project is broadly divided into three main inter-related blocks: the demo cases, the demo networks and the SMEs challenges. For each of these blocks, e-learning materials have been prepared to have dedicated presentation of project's progress project and engage with the targeted audiences.

During the first year of the project, the three webinars were organised. During the second 7 F4W on-line events were organised, one private event with the local water forum and one joined event with the D2020 synergy group.

During the last year, e-material focusses on the demonstration of F4W results. Partners have been engaged in 13 workshops webinars over the period, realised 9 video-interviews and delivered 3 key e-documents (see annexe 1 for the full list of e-learning materials from the beginning of the project).

I.3. eLearning materials promotion

To support the communication and promotion of the on-line events, the interviews-videos and the e-document publication, specific social media campaigns were planned.

The campaigns were based on regular posts prepared by OiEau[3]. This was reinforced by short up-date articles written by the partners. These articles aimed at explaining the scope of the event and presenting the agenda. They also highlighted specific features and transversal issues related to the events' topics (i.e. technological and technological).

The social media promotion was orchestrated by OiEau on F4W accounts and relayed by the partners on their own networks. The campaign included post-event communication to direct the participants towards the videos of the events.

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[3] See D6.16: Fiware4Water communication and dissemination report

II. Fiware4Water On-Line events held during the second year of the project

5 workshops were organised during the last year of the project. The first one dealt with the demo network dedicated to the River Basin Organisation. The following series of 4 workshops was dedicated to the main outcomes of F4W. Due to the COVID situation, they were organised as sessions of F4W final conference.

Table 1: List of Fiware4Water Workshops

WORKSHOPS				
Title	**Date**	**Participants**	**Organisation**	**Partners involved**
Demo Network 2 workshop "How digital solutions can contribute to the implementation of EU water policies?"	09/12/2021	130	OiEau and INBO	OiEau, EGM, KWR, EYDAP, SWW, FIWARE, BDG
Workshop #1 -Socio-political and citizen engagement on digital water	07/01/2022	Up to 50	EURECAT	EURECAT, Exeter, BDG, OiEau
Workshop #2 - Population of FIWARE platform on the water sector	04/02/2022	Up to 50	FIWARE	Fiware, EURECAT, EGM, OiEau
Workshop #3 - How AI, ML, Water Data modelling could support smart management of water?	04/03/2022	Up to 50	EURECAT	EURECAT, EGM, KWR, Waternet, FIWARE, EYDAP, OiEau
Workshop #4 - Digital water and EU policies	19/05/2022	Up to 40	KWR, EURECAT	EURECAT, KWR, EGM, Exeter, Waternet, OiEau

II.1. Demo Network 2 workshop "How digital solutions can contribute to the implementation of EU water policies?"

Organisers: OiEau co-organised with INBO

Audience: River basin organisation, scientists

Duration: 2 hours

Objective: The workshop aimed for water managers to gather a common understanding of digital water and then address technological and non-technological dimensions of digital water in two working sessions.

Link: https://www.riob.org/en/events/europe-inbo-2021

Picture 1- Demo network 2nd workshop

II.2. Workshop #1 -Socio-political and citizen engagement on digital water

Organisers: EURECAT, OiEau

Audience: Water manager, representatives of civil society

Duration: 2 hours

Objective: The workshop aimed at highlighting the necessity to engage with as broad a range of stakeholders at a local community level as possible and describe the advantages of such an approach for the professional water sector

Picture 4- Fiware4Water workshop#1

Agenda: https://bit.ly/3Ii4LPF

Link: https://www.youtube.com/watch?v=Aw9yhTCrZYs

II.3. Workshop #2 - Population of FIWARE platform on the water sector

Organisers: FIWARE, OiEau

Audience: Scientists, water managers

Duration: 2 hours

Objective: the workshop aimed at discussing FIWARE possibilities to develop IT solutions for the water sector

Picture 7 - Fiware4Water workshop#2

Link:

https://www.youtube.com/watch?v=SMtJKlqVMwY

II.4. Workshop #3 - How AI, ML, Water Data modelling could support smart management of water?

Organisers: EURECAT, OiEau

Audience: Scientists, water managers

Duration: 2 hours

Objective: The workshop was aimed at discussing (i) Why AI and data-driven solutions benefit water management, (ii) Smart applications to address the several challenges in the Fiware4Water demo cases and (iii) Performance and scalability assessment of the AI-powered solutions

Picture 10 – Fiware4Water workshop#3

Link: https://www.youtube.com/watch?v=v8VX5bHl9g4

II.5. Workshop #4 - Digital water and EU policies

Organisers: EURECAT, KWR, OiEau

Audience: Water managers

Duration: 2 hours and a half

Objective: The final Fiware4Water on-line workshop dealt with digital water and EU policies. The workshop was co-hosted by the DigitalWater2020 synergy group and the ICT4Water cluster. The aim of the workshop was to show how digital water solutions path the way towards the implementation of EU policies as well as provide evidence to support new policy recommendations.

Picture 13: Fiware4Water workshop#4

Link: https://www.youtube.com/watch?v=nDvt26p10do

III. Praticipation and joined events with the DW2020 synergy group

F4W partners participated as speakers to events organized by the other projects of the DW2020 synergy group, listed in table 2.

Table 2: List of participation and joined events with the DW2020 synergy group

Date	Title	Lead organiser	Format
27/04/22	Digitisation of the Water Sector related to Software & AI Naiades	Naiades	Webinar #6
17/03/22	Water Sustainability: From Consumer Awareness to Behavioural Change Support	Naiades	Webinar #5
03/03/22	Data models with the FIWARE platform for the water sector	DWC	Webinar
15/02/22	Event Detection in the Water Sector	Naiades	Webinar #4
28/01/22	Smart Water Management in Cities	Naiades	Webinar #3
20/01/22	Community of Practice for the water sector	DWC	On-line
14/12/21	Smart Water Solutions for SDGs	Naiades	Webinar #2
16/11/22	IoT Technologies for Smart Water Systems	Naiades	Webinar #1

III.1. IoT Technologies for Smart Water Systems

Organiser: Naiades project

Audience: Water managers and scientists

Duration: 2 hours

Objective: The webinar aimed at presenting Data Models and Live Demo

Link: https://naiades-project.eu/node/198

Picture 16: Naiades webinar #1
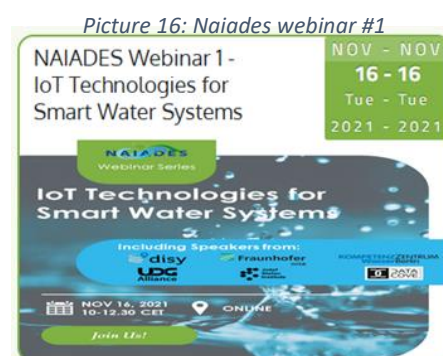
III.2. Smart Water Solutions for SDGs

Organiser: Naiades

Audience: water managers and authorities

Duration: 2 hours

Objective: The webinar proposed (i) a SDGs Training sessions and (ii) Thematic presentations.

Link: https://naiades-project.eu/node/226

Picture 19: Naiades webinar #2

III.3. Community of Practice for the water sector

Organiser: DW2020, under the lead of DWC

Audience: Water utilities

Duration: 2 hours

Objective: The event has been organized to gather all 21 utilities of the sister projects in order to promote DW2020 solutions to other utilities in Europe. The workshop was success with the active participation of >130 stakeholders.

Picture 22: DW2020 Community of practice on-line

Link: https://www.digital-water.city/news/dw2020-community-of-practice/

III.4. Smart Water Management in Cities

Organiser: Naiades

Audience: water managers and authorities

Duration: 2 hours

Objective: The webinar aimed at discussing (i) Smart water management through smarter, interoperable data - The NAIADES pilot in Carouge (ii) NAIADES' smart solutions for the urban water cycle of Alicante and (iii) Water Management in CUP Dunarea Braila. More information on: https://naiades-project.eu/node/232

Link: https://naiades-project.eu/node/232

Picture 25: Naiades webinar#3
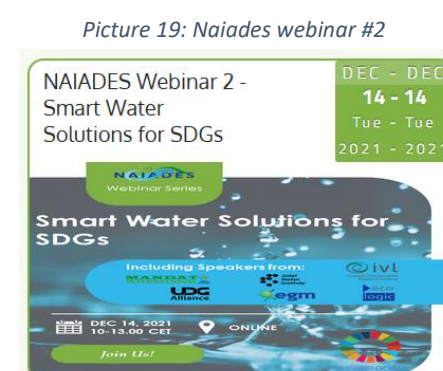

III.5. Event Detection in the Water Sector

Organiser: Naiades

Audience: water managers and authorities

Duration: 2 hours

Objective: The webinar aimed at discussing (i) Data-driven weather forecasting (i) event detection interface in the water sector and (iii) NAIADES' smart solutions for chlorates prediction in water.

Link: https://naiades-project.eu/node/235

Picture 28: Naiades webinar#4

III.6. Water Sustainability: from Consumer Awareness to Behavioural Change Support

Organiser: Naiades

Audience: water managers, association

Duration: 2 hours

Objective: The webinar aimed at presenting (i) water awareness dashboard: an application in Alicante schools, (ii) the role of the Quintuple Helix in water sustainability, (iii) the water footprint and (iv) Smart meter data and customer engagement work

Link: https://naiades-project.eu/node/240

Picture 31: Naiades webinar#5

III.7. Digitisation of the Water Sector related to Software & AI

Organiser: Naiades

Audience: water managers and authorities

Duration: 2 hours

Objective: The webinar dealt with in the sustainable development and innovative solutions to support the SDGs

Link: https://naiades-project.eu/node/242

Picture 34: Naiades webniar#6

III.8. Fiware4Water interview-videos

A series of 9 interview-videos was prepared with partners to present in a short format of 4 minutes maximum, the different technological and non-technological dimensions of the project and its progress (see table 3).

Table 3: List of Fiware4Water interview-videos

F4W General Presentation

Speaker: Sonia Siauve, OiEau, project coordinator
Link: https://www.youtube.com/watch?v=et7ya3dyJ4U

F4W What is Digital Water?

Speaker: Lluis Echeverria, EURCAT, WP3 leader, smart applications and devices
Link: https://bit.ly/3rJr235

F4W Democase 3 Amsterdam

Speaker: Alex van de Helm, Demo case 3 leader, Waternet
Link: https://bit.ly/3DVHcsJ

F4W Scientific Presentation

Speaker: Lydia Vamvakeridou-Lyroudia, KWR, project scientific and technical coordinator
Link: https://bit.ly/31SBF8P

F4W Democase 1 Athens

Speaker: Vasiliky Polychniatou, Demo case 1 leader, EYDAP
Link: https://bit.ly/30o2t0q

F4W Democase 4 Great Torrinton

Speaker: Joshua Pocock, Demo case 4 leader, SWW
Link: https://bit.ly/3m32pe4

F4W DemoNetwork 1 Municipalities

F4W DemoNetwork 2 River Basin Organisations
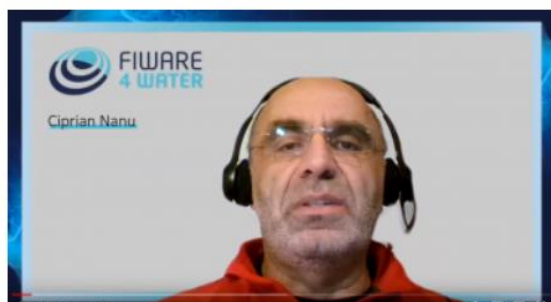
Speaker: Ciprian Nanu, BDG, Demo network 1 leader
Link: https://bit.ly/33sYVLE

Speaker: Eric Tardieu, INBO, Demo network 2 representative
Link: https://bit.ly/3pSfeZP

F4W Social and political engagement

Speaker: Richard Elelman, EURECAT, WP5 leader, Socio-political impact
Link: https://bit.ly/3ymZy4A

IV. Fiware4Water E-documents

All the e-documents were realised on the collaborative basis. They aimed at highlighting specific dimensions of the project's outcomes while targeting specific audiences.

Table 4: List of Fiware4Water e-documents

E-DOCUMENTS		
Title	Date	Deliverable number
E-book #1 - Digital water for non-experts	02/2022	Deliverable n°6.8
Social innovation factsheet#2 Fiware4Water outcomes about digital water	02/2022	Deliverable n°6.11
E-book #2 - Digital water from technological and non-technological dimension	05/2022	Deliverable n°6.8

IV.1. E-Book#1: digital water for non-experts

Authors: Amorsi Natacha (OiEau), Deveughele Stéphane (Suez), Echeverria Lluis (EURECAT), Elelman Richard ((EURECAT), Nanu Ciprian (BDGroup), Pocock Joshua (South West Water), Polychniatou Vasiliki (EYDAP), Siauve Sonia (OiEau), Angeles Tejado (FIWARE), Vamvakeridou-Lyroudia Lydia (KWR)., van der Helm Alex (Waternet)

Targets: Non-experts

Picture 37: Fiware4Water E-Book#1

Scope of the document: After two years and half, Fiware4Water partners present digital water as explored through the progress of the 4 Demo cases and 3 Demo networks. To set the scene, the E-Book starts with the project's overview, a scientific presentation and a focus on digital water. This opens up on the European perspective for digital water.

One key driver of Fiware4Water is to consider social innovation to combine technological solutions with the governance, capacity building and economic dimensions. Fiware4Water has dedicated a wide series of activities on social-political and citizen engagement, also presented in the E-Book.

Link https://www.oieau.fr/pub/F4W-Digital-Water_non-Expert/

IV.2. Social innovation factsheet#2 Fiware4Water outcomes about digital water

Authors: Natacha Amorsi (OiEau), Kate Baker (Univ. of Exeter), Albert Chen (Univ. of Exeter), Richard Elelman (EURECAT), Alex van der Helm (Waternet), Fernando Lopez (FIWARE Fundation), Theresia Meltzer (TZW), Ciprian Nanu (BDGroup), Vasiliki Polychniatou (EYDAP), Lydia Vamvakeridou-Lyroudia (KWR)

Targets: Water managers, scientists, representative of the civil society

Scope of the document: The four dimensions of social innovation are used to present the wide spectrum of Fiware4water results and outcomes as well as their synergies: **(i)** the technological dimension focuses on the IT solutions by the 4 demo cases and using FIWARE architecture, **(ii)** the capacity development dimension presents the key initiatives put into place during the life time of the project to ensure the potential end-users can access and use the solutions developed by the project, **(iii) t**he governance structure dimension highlights the link between F4W outcomes and the EU water related policies, as well as how the socio-political and citizens engagement can support new governance mechanism including digital water, and **(iv)** the economic and business dimension reveals some of the foreseen actions that could be deployed from now on to ensure exploitation and market up-take after the end of the project.

Picture 40: Fiware4Water Social innovation factsheet#2

Link: https://www.fiware4water.eu/sites/default/files/delivrables/F4W-D6.11-SocialInnovationFactsheet-n2_final.pdf

IV.1. E-Book#2: Technological and non-technological dimensions of digital water

Picture 43: Fiware4water E-book#2

Authors: Natacha Amorsi (OiEau), Kate Baker (Univ. of Exeter), Albert Chen (Univ. of Exeter), Richard Elelman (EURECAT), Alex van der Helm (Waternet), Fernando Lopez (FIWARE Fundation), Theresia Meltzer (TZW), Ciprian Nanu (BDGroup), Vasiliki Polychniatou (EYDAP), Lydia Vamvakeridou-Lyroudia (KWR)

Targets: Water managers, scientists, representative of the civil society

Scope of the document: the second e-book is an update of the first version with additional scientific and technical illustrations based on the solutions developed by Fiware4Water 4 demo cases.

Link: https://www.fiware4water.eu/deliverables#deliverable

Conclusion

During the first year of the project, 3 out of the 9 webinars planned as part of the communication and dissemination strategy were held. They were an opportunity to present the solutions proposed by the project and to open discussions on the digitalisation of the water sector and the existing tools. These events were also an opportunity to ensure synergies, both between the different partners of the project, and with other projects and external clusters. The first series focussed on the solutions developed by and for the four Demo Cases of the project.

During the second year, 6 webinars took place. The smart solutions development was still under progress and presented in the webinar #6 (Smart water management, Using Fiware Smart Data Models for Water) and #7 (Harvesting the Power of FIWARE across the Entire Water Value Chain – Fiware4Water). Then, the global scope slightly change to open up the webinars to non-IT experts audiences and target the potential end-users (municipalities and water authorities) with webinar #5 (Digitalising the future of Water (FIWARE water day), #8 (Digitalising the future of Water (FIWARE at Green cities), #9 (Creation of a Social and Political Consensus employing Digital Water) and #10 (How Water digital innovations can benefit to Basin Organisations? The on-going experience of Fiware4Water). The move from the IT audience to the potential end-users of F4W solutions is characterised by the launch of F4W Demo Networks#1 (Municipalities in the Lower Danube) and #2 (Water authorities). In addition, 3 on-line sessions were organised by the Demo network #4 and a webinar was organised by the DigitalWater2020 synergy group.

During the last year of the project, 5 workshops were organised by F4W. 1 was dedicated to the Demo network#2 targeting river basin organisation. 4 presented the technological and non-technological dimensions of the project's outcomes. Due to the COVID situation, those four workshops replaced F4W final conference. Partners got also involved in 6 webinars organised on behalf of the DW2020. Finally, 1 common workshop, also labelled under D2020, took place on the community of practice for water utilities. These events reached water utilities, IT developers, scientists, SMEs, water managers and representatives of the civil society.

To fully support the promotion of F4W outcomes, a series of 9 interview-videos was realised with partners to present the key messages on the digital water from the technological, societal and policy perspectives. Finally, 3 e-documents were delivered addressed to non-experts and stakeholders involved in the water sector.

Annex 1: Full list of e-materials

	Title	Date	Number of participants	Organisation	Partners involved
Year 1					
Webinars	#1-FIWARE Ecosystem for water management	25/11/2019	Up to 53	EGM	FIWARE, EGM
	#2-Data models for water management	26/11/2019	Up to 53	EGM	University of Exeter, Universidad Politécnica de Madrid, EGM
	#3-The EPANET Water network simulator	27/11/2019	Up to 53	EGM	Exeter
	#4-F4W Developers' workshop	02/02/2020	14	EGM	EGM (F4W), Aqua3S project
Year 2					
Webinars	#5-Digitalising the future of Water (FIWARE water day)	17/09/2020	182	FIWARE	FIWARE, EGM, SUEZ 3S, SSW, DW2020 projects
	#6-Smart water management, Using Fiware Smart Data Models for Water	16/09/2020	56	FIWARE	FIWARE, EGM, EURECAT, EXETER
	#7-Harvesting the Power of FIWARE across the Entire Water Value Chain – Fiware4Water	23/09/2020	Up to 55	KWR	KWR, WaterNet
	#8-Digitalising the future of Water (FIWARE at Green cities)	30/09/2020	17	FIWARE	FIWARE, EGM, EURECAT
	#9- Creation of a Social and Political Consensus employing Digital Water[4] (private)	03/11/2020	20	BDG	BDG, OiEau, EURECAT
	#10 – How Water digital innovations can benefit to Basin Organisations? The on-going experience of Fiware4Water	10/11/2020	Up to 95	OiEau	OiEau, INBO, EGM, KWR, EYDAP, SWW, FIWARE, BDG
	Demo Network#4 Local forum	3 sessions		SWW	Exeter, KWR, EURECAT
	Data models with the FIWARE platform for the water sector	03/03/2021	ICT4Water cluster community	DigitalWater2020 synergy Group	EU projects: digital-water.city, Score Water, Fiware4Water,

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[4] This webinar was a private event open to the municipalities of Timisoara (RO), Szeged (HU) and Novi Sad (RS) within Demo Network #2

				Naiades and aqua3S

Year 3

WORKSHOPS				
Title	Date	Participants	Organisation	Partners involved
Demo Network 2 workshop "How digital solutions can contribute to the implementation of EU water policies?"	09/12/2021	130	OiEau and INBO	OiEau, EGM, KWR, EYDAP, SWW, FIWARE, BDG
Workshop #1 -Socio-political and citizen engagement on digital water	07/01/2022	Up to 50	EURECAT	EURECAT, Exeter, BDG, OiEau
Workshop #2 - Population of FIWARE platform on the water sector	04/02/2022	Up to 50	FIWARE	Fiware, EURECAT, EGM, OiEau
Workshop #3 - How AI, ML, Water Data modelling could support smart management of water?	04/03/2022	Up to 50	EURECAT	EURECAT, EGM, KWR, Waternet, FIWARE, EYDAP, OiEau
Workshop #4 - Digital water and EU policies	19/05/2022	Up to 40	KWR, EURECAT	EURECAT, KWR, EGM, Exeter, Waternet, OiEau

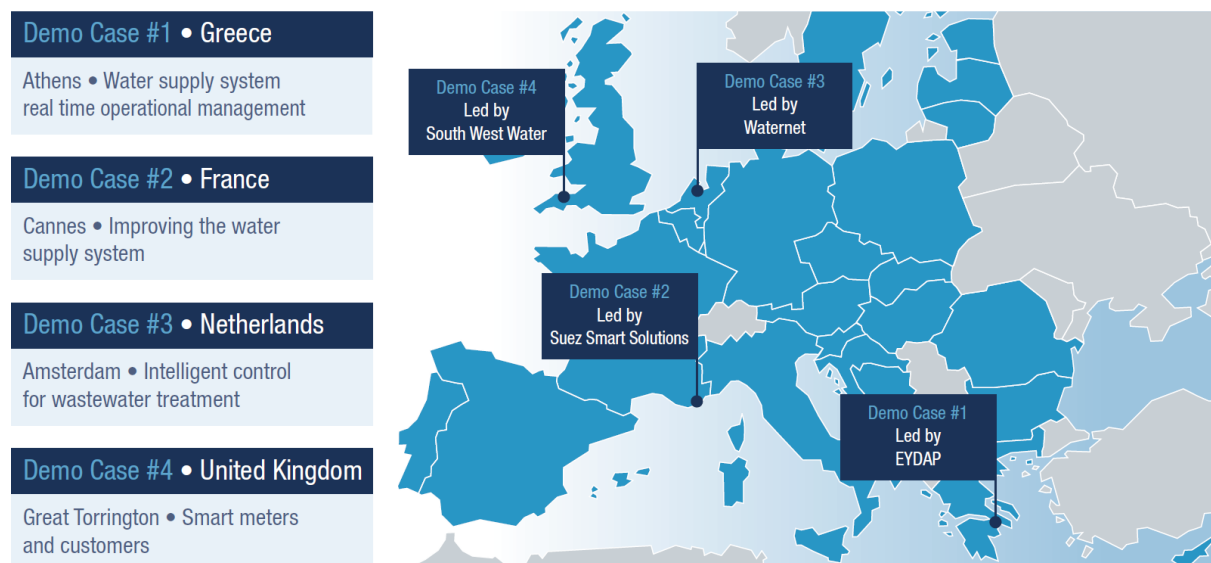| PARTICIPATION AND JOINED EVENTS WITH THE DW2020 SYNERGY GROUP			
Date	Title	Lead organiser	Format
27/04/22	Digitisation of the Water Sector related to Software & AI Naiades	Naiades	Webinar #6
17/03/22	Water Sustainability: From Consumer Awareness to Behavioural Change Support	Naiades	Webinar #5
03/03/22	Data models with the FIWARE platform for the water sector	DWC	Webinar
15/02/22	Event Detection in the Water Sector	Naiades	Webinar #4
28/01/22	Smart Water Management in Cities	Naiades	Webinar #3
20/01/22	Community of Practice for the water sector	DWC	On-line
14/12/21	Smart Water Solutions for SDGs	Naiades	Webinar #2
16/11/22	IoT Technologies for Smart Water Systems	Naiades	Webinar #1

INTERVIEW-VIDEOS				
Title	Date	Speaker	Role in F4W	Organisation
F4W - General presentation	09/2021	Sonia Siauve	Project coordinator	OiEau
F4W - Scientific presentation	10/2021	Lydia Vamvakeridou-Lyroudia	Scientific and technical coordinator	KWR
F4W - What is digital water?	10/2021	Lluis Echeverria	WP3 leader, smart applications and devices	EURECAT
F4W - Demo case 1: Athens	10/2021	Vasiliki Polychniatou	Demo case 1 leader	EYDAP
F4W - Demo case 3: Amsterdam	11/2021	Alex van de Helm	Demo case 3 leader	Waternet
F4W - Demo case 4:Great Torrington	11/2021	Joshua Pocock	Demo case 4 leader	SWW
F4W - Demo network 1: Municipalities *(private)*	11/2021	Ciprian Nanu	Demo network 1 leader	BDG
F4W - Demo network 2: River basin organizations	12/2021	Eric Tardieu	Demo network 2 representative	INBO
F4W - Social and political engagement	12/2021	Richard Elelman	WP5 leader, Socio-political impact	EURECAT

E-DOCUMENTS			
Title	Date	Deliverable number	Authors
E-book #1 - Digital water for non-experts	02/2022	Deliverable n°6.8	Amorsi Natacha (OiEau), Deveughele Stéphane (Suez), Echeverria Lluis (EURECAT), Elelman Richard (EURECAT), Nanu Ciprian (BDGroup), Pocock Joshua (South West Water), Polychniatou Vasiliki (EYDAP), Siauve Sonia (OiEau), Angeles Tejado (FIWARE), Vamvakeridou-Lyroudia Lydia (KWR)., van der Helm Alex (Waternet)
Social innovation factsheet#2 Fiware4Water outcomes about digital water	02/2022	Deliverable n°6.11	Natacha Amorsi (OiEau), Kate Baker (Univ. of Exeter), Albert Chen (Univ. of Exeter), Richard Elelman (EURECAT), Alex van der Helm (Waternet), Fernando Lopez (FIWARE Fundation), Theresia Meltzer (TZW), Ciprian Nanu (BDGroup), Vasiliki Polychniatou (EYDAP), Lydia Vamvakeridou-Lyroudia (KWR)
E-book #2 - Digital water from technological and non-technological dimension	05/2022	Deliverable n°6.8	Amorsi Natacha (OiEau), Deveughele Stéphane (Suez), Echeverria Lluis (EURECAT), Elelman Richard (EURECAT), Nanu Ciprian (BDGroup), Pocock Joshua (South West Water), Polychniatou Vasiliki (EYDAP), Siauve Sonia (OiEau), Angeles Tejado (FIWARE), Vamvakeridou-Lyroudia Lydia (KWR)., van der Helm Alex (Waternet)

Annex 2: Fiware4Water Demo cases

Demo Case #1 • Greece

Athens • Water supply system real time operational management

Demo Case #2 • France

Cannes • Improving the water supply system

Demo Case #3 • Netherlands

Amsterdam • Intelligent control for wastewater treatment

Demo Case #4 • United Kingdom

Great Torrington • Smart meters and customers

Demo Case #4
Led by
South West Water

Demo Case #3
Led by
Waternet

Demo Case #2
Led by
Suez Smart Solutions

Demo Case #1
Led by
EYDAP

Annex 3: Fiware4Water Demo networks

Demo Network #1
MUNICIPALITIES

LOWER DANUBE, THE MIDDLE EAST & NORTH AFRICA LED BY BUSINESS DEVELOPMENT GROUP

Assessment of the potential for uptake of the Fiware4Water portfolio of smart devices and Apps in the area, based on the ConCensus approach

Demo Network #2
WATER AUTHORITIES

INTERNATIONAL NETWORK OF BASIN ORGANISATIONS LED BY INTERNATIONAL OFFICE FOR WATER

Organisation of 6 workshops to showcase the benefits of Fiware4Water smart applications and devices for managing water in an integrated way

Demo Network #3
TECHNOLOGY PROVIDERS

FIWARE INNOVATION HUBS LED BY FIWARE

Implementation of a technology transfer program to support water management-oriented SMEs, based on Fiware Mundus programme (incl. SMEs challenges)