D6.9 Fiware4Water Newsletter #2

Natacha Amorsi, OIEau

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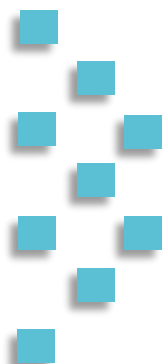
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Project Consortium

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Final	29/01/21	Natacha Amorsi (OIEau)	Lydia Vamvakeridou-Lyroudia Foreword and quality check

Table of content

1. Introduction

Three e-newsletters are planned over the course of the project. The first one was delivered at month 9 (February 2020)[1], the second one (this one) is due for month 21 (February 2021) and the last one at month 27 (August 2021).

D6.3.2 Fiware4Water e-newsletter #2 deliverable aims at explaining the structure and the planning of dissemination of the e-newsletters (introduction) and at providing its content (section 2). The first newsletter is presented in annexe 1.

Each e-newsletter are conceived in a way to present the latest development of Fiware4water. They are complementary to the weekly communication activities made via the social networks (fiware4water twitter and LinkedIn), and regular updates on the project website (www.fiware4water.eu).

a) Structure of the e-newsletter#2

This second e-newsletter aims at presenting the main achievements of the project over the first period both on the technical aspects with the progress of the DemoCases and on the non- technical aspects with the start of the DemoNetworks. It also provides information on the on-going activities with the DigitalWater2020 synergy group including F4W, Aqua3s, ScoreWater, DWV, Naiades.

b) Table of content

The e-newsletter#2 starts with a Foreword from Lydia Vamvakeridou-Lyroudia (KWR), our scientific and technical manager to provide an insight of the main deliveries of the projects and next steps.

Sections of the e-newsletter #2	Foreseen sections for the e-newsletter #3
Foreword from the scientific and technical coordinator	Foreword from the coordinator
An update from the DemoCases	The view of the Advisory board
Launch of the DemoNetworks	Final deliveries of the DemoCases
DigitalWater2020 synergy group feedbacks	Final deliveries of the DemoNetworks
Want to learn more?	F4W legacy
Save the dates	DigitalWater2020 synergy group feedbacks
How to get involved?	Want to learn more (webinars, E-Book link)
	Save the dates
	How to get involved?

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[1] see annexe 1

c) Targets

The e-newsletters aim at reaching all the 6 main targets of the project: water utilities, SMEs (developers & equipment providers), River basin organisations, Industrials users, Academia and Citizens & consumers (see the 6.1 Communication and dissemination strategy towards a smart society for a more detailed description of the Fiware4Water's targets[2]).

d) Release of the e-newsletters and planning

At the beginning of February 2021, in order to be compliant with the RGPD directive, the e-newsletter will be sent to all Fiware4Water partners (who already have given their consent to receive the document). Then, the partners will use their own networks to disseminate the e-newsletter or invite contacts to register on the website e-newsletter form[3]. OiEau will send the newsletter to it 7000 contacts throughout Europe.

The promotion of the e-newsletter will also be made through the project social networks (Twitter @Fiware4Water and LinkedIn @euprojectFiware4water) and the partners' ones.

2. Content of F4W second e-newsletter

The e-newsletter will be available on F4W website[4].

a) Foreword from F4W Scientific and Technical Manager

F4W progressed well during this period, in spite of the pandemic, the lockdown, the travelling restrictions and all the upset that this "new reality" brought to us and the project. F4W was affected by the situation, but we managed to overcome several hurdles, as you can see from the progress at the Case Studies and the Demo Networks that follows. All our meetings turned into remote ones, but we still collaborated more closely than ever. We even managed to hold remote meetings with citizens in Case Study #4 (developing also a manual for this), which was an achievement in itself. The highlight of our activities during this period, however, can be summarised in the significant progress in deploying sensors and in developing data models for all the Case Studies and in Artificial Intelligence (AI) approaches for Case Study#3. Another highlight has been the launching and progress of the synergies with the other sister projects, forming the DW2020 (Digital Water 2020) group. Within this group we are joining forces to face challenges, we are supporting each other and we are boosting the performance and impact potential for all the sister projects. We hope that in the next few months the situation will improve and that we'll again be able to travel, meet each other in person and also meet our participants in the Demo Networks and in Case Study 4 in person.

b) An update from the 4 DemoCases

Four DemoCases have started right at the beginning of the project to build and demonstrate innovative digital water solutions across the water value chain (https://www.fiware4water.eu/news/four-demo-cases-latest-updates).

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[2] https://www.fiware4water.eu/sites/default/files/delivrables/F4W-D6.1%20communication%20and%20dissemination%20strategy%20FV.pdf
[3] The registration form is available on the bottom of each website pages (https://www.fiware4water.eu/)
[4] https://www.fiware4water.eu/deliverables#newsletters

Demo case #1: Water supply system real time operational management (Greece)

F4W partners are working on the modelling of their network and water data models. Some delays are due to the process of sensor purchase (public procurement). The base Fiware architecture has already been designed and is currently under development. The focus is now on integrating the legacy system for data exchange. https://www.fiware4water.eu/demo-cases/greece-raw-water-supply-optimisation-case

Demo case #2: Improving the Water Supply System: proactive management, leakage reduction and water quality monitoring (France)

Four NanoStations have been installed in the distribution network and the raw data are being collected in SUEZ Smart Solution's legacy system: AQUADVANCED software. SUEZ Smart Solution (3S) partner has proposed to organise a meeting to show how this software is functioning. Concerning the CNRS innovative probe (NanoSensor) which is under development, it will be tested remotely (due to the COVID-19 pandemic) on TZW bench (in Germany) for a 12-month test period. The base Fiware architecture has been designed and the current focus is on the smart models integration with the F4W platform and legacy systems. 3S is working on the development of the smart applications (intelligent data-driven models) in order to solve four business issues, and data will be shared soon with other F4W partners involved in this Demo Case (3S is validating legal restrictions before sharing data) so that they can also work and collaborate on this task. https://www.fiware4water.eu/demo-cases/france-water-supply-system-management-case

Demo case #3: Intelligent control for wastewater treatment (The Netherlands)

The sensors are installed and data models aimed at water treatment plants are well advanced. The base FIWARE architecture has been defined and current efforts are devoted to integrating it with legacy systems. Regarding smart applications, **AI data-driven methodologies** (such as anomaly detection, soft sensors and optimal control) are being developed and implemented for smart management of the wastewater treatment plant. Also work on dashboards for visualization and data analysis of the newly installed sensors is started within the legacy system. https://www.fiware4water.eu/demo-cases/netherlands-intelligent-control-wastewater-case

Demo case #4: Smart Meters and Customers (United Kingdom)

Partners continue working on their data models. The ConCensus protocol to engage with Great Torrington City and citizens is on-going virtually less easily than if it were organised in person. The first (remote) meeting with volunteer citizens was organised on 3 November 2020 and special material was developed for it. Important efforts have been devoted to integrating EPANET with the F4W platform. The base Fiware architecture is also designed and, currently, they are working on integrating the different components. The business issues have been analysed and the development of the **smart applications** is ongoing. https://www.fiware4water.eu/demo-cases/united-kingdom-smart-metering-and-citizen-engagement-case

c) Launch of the DemoNetworks

Three DemoNetworks have started last September 2020. They aim at promoting an EU and global network of followers for digital water and FIWARE (cities, municipalities, water authorities, citizens, SMEs, developers).

DemoNetwork#1: Lower Danube, Middle and North Africa

One of the long-term objectives is to build up a community of pro-active followers, creating a platform for cooperation between Eastern European stakeholders at national and international level and help to implement IT solutions sector in water utilities while contributing to the reduction of potential technical gaps between them. The DemoNetwork#1 started with A series of webinars with the cities in Romania, Hungary and Serbia to explain the potential of F4W activities for them in the future and to establish a social and political consensus on water digitization. https://www.fiware4water.eu/demo-network-1-lower-danube-romania-bulgaria-hungary-croatia-serbia-and-moldova-middle-east-jordan

DemoNetwork#2: International Network of Basin Organisation

The main objective is to showcase the benefits of Fiware4Water smart applications and devices for managing water in an integrated way, relying on sound Water Information Systems and efficient data management. 6 workshops/webinars jointly organised with the events of INBO regional branches (Europe, Africa, Mediterranean, South America, North America, Central Asia) are planned. In addition, a concerted effort will be also undertaken to involve Municipal governments located within the INBO sphere of influence as follower. The first webinar took place in November 2020 to explain "How water digital innovations can benefit to River Basin Organisations? The on-going experience of Fiware4Water". https://www.fiware4water.eu/demo-networks/international-network-basin-organisation

DemoNetwork#3: SMEs challenge

F4W challenges are currently being organised by FIWARE partners with the objective to boost SME innovation. It is a technical challenge, not really a hackathon although with the same spirit, since applicants will have 3 months to propose solutions. Challenges are proposed from F4W and DWC projects with dataset to be used by applicants with one condition: find a solution to address the challenge expressed by using the F4W platform. Organisation of the challenges will be explained to the Fiware ecosystems during a Wednesday webinar during the first trimester of 2021 before the official launch of the challenge. https://www.fiware4water.eu/demo-networks/fiware-innovation-hub

d) DigitalWater2020 synergy group feedbacks

The 5 projects, F4W, aqua3S, DigitalWater.City, NAIADES and ScoreWater composing DW2020 have received funding from the European Union's Horizon 2020 Research and Innovation programme. They all address digital water related issues. DW2020 is organised into 4 thematic tasks force focussing on FIWARE and ontology; Sensors and demonstration, Business model and Communication (https://www.fiware4water.eu/news/digitalwater2020-poster) . Since its creation in May 2020, the different task forces have virtually meet many times to share and develop common approaches. For more information, you can contact Nicolas Caradot, from KWM in charge of the management of the DW2020 (nicolas.caradot[@]kompetenz-wasser.de).

e) Want to learn more?

F4W regularly organises webinars to raise awareness on digital water and more specifically to explain its innovative development.

At the end of 2019, a first series of three webinars was organised on FIWARE Ecosystem for water management, Data models for water management and The EPANET water network simulator (https://www.fiware4water.eu/news/first-series-f4w-webinars)

In September 2020, webinars were organised jointly with Fiware and the support of DigitalWater2020:

- Digitalising the Future of Water- FIWARE at Greencities - https://youtu.be/KaZW8C3s_98

- FIWARE Water DAY - Digitalising the Future of Water - https://youtu.be/tUStUBPQ7-4

- Smart Water Management - Using FIWARE Smart Data Models for Water - https://youtu.be/QbAiLMFEQrY

A public webinar was organised with the International Organisation Basins Organisation (DemoNetwork#2) early November 2020 to present F4W and the engagement process with the water managers: https://www.fiware4water.eu/news/session-fiware4water-europe-inbo-2020

Private Webinars were organised to launch the process of the DemoNetwork#1 focusing on the eastern countries. This first series brought together the key institutional actors to path the way to the water local forum creation. The aim is to bring awareness on digital water solutions through F4W accomplishment. For more information contact: Ciprian Nanu (ciprian.nanu[@]bdgroup.ro)

f) Save the dates

As the DigitalWater2020 projects are progressing very well on their data models development, a specific webinar will be organised in the coming weeks with EASME and addressed to the #ICT4Water cluster community. More information will be regularly provided on our social media.

F4W is participating to the SimHydro event in Nice (France) on the 16-18 June 2021, (https://www.simhydro.org/) with the DigitalWater2020 synergy group. The event focusses on "Model for complex and global water issues – Practices and expectations". A special session will be organised for participants to explore F4W platform. More information will be regularly provided on our social media.

g) How to get involved?

Project email: fiware4water@oieau.Fr

Fiware4Water

Website: www.fiware4water.eu

III. Annexe: Content of the first Fiware4Water e-newsletter

As explained in section II, the e-newsletter will provide part of articles. A read more bottom will redirect on Fiware4Water website for the full content of articles.

To distinguish to content of the e-newsletter and the complementary content accessible on the website, a colour system has been used in the following sections: **text in black** corresponds to the content of the e-newsletter, **text in orange** to the complementary content providing on the website.

a) Foreword

The first issues of Fiware4Water newsletter is for us the opportunity to embark you on the project's journey which aims at the end of the 3 years (2019-2022) to deliver a digital single market for smart water services. Fiware4Water is on its way to develop an additional component to the FIWARE Platform aiming at accelerating the development of smart solutions.

Fiware4Water has officially started in May 2019 and being launched at Fiware4Water first General Assembly held in Brussels on the 10 of June. One key objective of the first 6 months or so was to deliver the end-users, demo case and innovation requirements. The results are nowadays available on our website (https://www.fiware4water.eu/deliverables). Their analysis will be delivered very soon, focusing on a gap analysis that will bring out the final requirements. So Fiware4Water reference architecture, smart applications and devices development can start in the closest possible way with the 4 cases studies.

The articles that have been prepared for this newsletter aim at giving you the general picture of the project, explain the link between Fiware and Fiware4Water as well as bring an update on the latest activities. We invite you to visit our website (www.fiware4water.eu) and follow us on LinkedIn and Twitter to get more details.

We hope you will enjoy your reading and we will be pleased to answer any of your Fiware4Water questioning (fiware4water@oieau.F).

Gilles Neveu, coordinator, on behalf of Fiware4Water consortium

b) Fiware4Water in a nutshell

Objective

Link the water sector to FIWARE by demonstrating its **capabilities** and the specific potential of its **interoperable and standardised** interfaces for both water sector end-users (cities, water utilities, water authorities, citizens and consumers) and solutions providers (private utilities, SMEs, developers), seen as an innovation ecosystem, by building and demonstrating a series of **complementary** and **exemplary paradigms,** and by promoting an EU and global wide **network of users.** It will create the *Fiware4Water* ecosystem, demonstrating its **technical, social** and **business** innovative potential**.**

3 years
2019-2022

14 partners,
experts in ITC, water and social sciences, coordinated by OIEau

Contact
fiware4water@oieau.fr
@Fiware4Water
www.fiware4water.eu

4 Demo Cases
Athens Water Supply and Sewerage (GR)
Cannes Water Distribution System (FR)
Amsterdam Wastewater Treatment (NL)
Smart metering (UK)

3 Demo Networks
Municipal Governments
Policymakers and managers
SMEs and innovators

c) Why Fiware4Water?

The prerequisite of Fiware4Water is to lever the barriers of the water digital sector that is facing a low level of maturity in the integration and standardization of ICT solutions, in the business processes of these solutions and relative implementation of legislative framework, as described by the ICT4Water cluster.

The related needs are how to exploit the value of data for the water sector, how to develop and test robust and cyber-secured systems, how to create water-smart solutions and applications how to ensure interoperability and higher information capacity and how to design tailored solutions addressing a real need such as optimisation, prediction, diagnosis, real-time monitoring.

d) What are the links between Fiware and Fiware4Water?[5]

FIWARE
Open APIs for Open Minds

A curated framework of open source platform components which can be integrated together and with third components to ease development of smart solutions in multiple sectors

FIWARE MISSION

Drive the definition of public, royalty-free and implementation-driven standards laying the foundation for an open, sustainable and innovation-driven ecosystem bringing opportunities for all

FIWARE Community

Those engaged in achieving the FIWARE mission, contributing to the technology or the development of the ecosystem, making it sustainable over time

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[5] Link on the website for the section "What are the links between Fiware and Fiware4Water?:

FIWARE (https://fiware.org) is a curated framework of open source components which can be assembled together and with other third-party components to accelerate the development of Smart Solutions (https://developer.fiware.org). The main and only mandatory component of any "Powered by FIWARE" platform or solution is the FIWARE Orion Context Broker (OCB), which brings a cornerstone function in any smart solution - the need to manage context information, enabling to perform updates and bring access to context. Building around the FIWARE Context Broker, a rich suite of complementary FIWARE components (Generic Enablers) are available, dealing with:

- Interfacing with the Internet of Things (IoT), Robots and third-party systems, for capturing updates on context information and translating required actuations.
- Context Data/API management, publication and monetization, implementing the expected smart behavior of applications and/or assisting end users in making smart decisions.
- Processing, analysis, and visualization of context information, bringing support to usage control and the opportunity to publish and monetize part of managed context data.

From the FIWARE architecture, at least five major benefits for the water domain will be developed by **Fiware4Water**: (i) Bringing water into cross domain applications (ii) using standardised interfaces, models and methods also for interoperability (iii) revealing the power of data (iv) integrating seamlessly legacy system (v) boosting innovation in the water domain.

Fiware4Water is making a strong step forward towards the consecution of digital water challenges, linking the physical and the virtual worlds, converting data coming from sensors, and combining it with information from other systems, value chains and domains. FIWARE provides technology enablers which simplify the generation of effective knowledge, and the deployment of personalised smart applications. These will maximise the water data value by providing collective and collaborative management of the water resources, considering side-effects at cross-domain.

e) Fiware4Water objectives and concept

To tackle the barriers and related needs of the water digital sector, Fiware4Water aims at creating the Fiware4Water ecosystem and prove its innovative technological, social and business potential by linking the water sector to FIWARE (the open and license free smart solutions platform).

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https://bit.ly/2QayTmE

f) Overview of Fiware4Water demo cases[6]

The Fiware4Water project is based on 4 demo cases dealing with specific aspects of digital water. The Greek demo case explores the raw water supply optimisation, the French demo case deals with the water distribution system management, the Dutch demo case is about intelligent control for wastewater and finally and the English demo case focusses on smart metering and citizen engagement.

g) A word from SouthWestWater in charge of the Smart Meters and Customers demo case (UK)

Our demo case is well underway; the IoT communications network is installed, residents and business owners are on board, smart meters are in the ground and the data is being analysed. I'm pleased to say that we are already more proactively identifying and fixing leaks that our customers weren't aware of and on average we are forecasting that our customers would save £327/year on their water bill.

All of the above has been achieved the old fashioned way (apart from the IoT smart meter of course), i.e., through in-person customer engagement, manual data analysis, bill comparison and consumption letters and phone calls. The next step is where FIWARE comes in. Our aim is to digitise this process within FIWARE to prove that the above (and more) can be achieved digitally. If we are successful, then we are confident we can make this a viable business as usual process for our wider customer base which will mean the benefits we are seeing can be realised across our entire region.

The project in numbers:

1No. Sigfox IoT communication network

100No. Domestic smart meters

5No.Commercial smart meters (high resolution loggers)

4No.Large customer leaks identified and repairs (c.1,000 litres/day each)

1No.Large commercial leak identified (est. >2,500 litres/day)

344No. Customer water efficiency visits completed (average water saving 60 litres/day)

>70%   Customers saving money (£327 average saving, £860 largest saver)

>500   Customer engagements

Author: Ben Ward, South West Water

h) Feedback on the collaboration with EPANet

Digital transformation is all about connecting the physical world to digital solutions. As a water engineer and a consultant for water utilities and start-up companies, I often see, on one hand, the huge amount of data being collected by the water utilities, and on the other hand, the difficulties connecting it to available smart digital solutions. When I was asked to serve on the External Advisory Board of the Fiware4Water H2020 research project, I saw the opportunity to help bridge this gap. The project aims to utilize the FIWARE platform capabilities to allow water utilities and authorities to publish their data in a standardized way, and for solution providers to interact with the data via open API architecture. Two of my passions are water engineering and open source software. By contributing to the open

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[6] Link to the website for the section "Overview of Fiware4water demo case": https://bit.ly/2QcEWY5

[source EPANET](#) project I'm able to combine the two (EPANET is an industry-standard program for modelling the hydraulic and water quality behaviour of water distribution system pipe networks). The Centre for Water Systems in the university of Exeter UK, which is one of the Fiware4Water project partners, developed a revised version of the program, EPANET-p, which extends its capabilities to include pressure driven demands. During the first project's general assembly, held on November 2019 in Amsterdam, we arranged for a side meeting to discuss ways for real-time water simulation using EPANET-p combined with the FIWARE platform. The technologies planned to be developed in the project will be demonstrated on real-world test cases with challenging objectives such as: forecast and manage water demands, reduce leakage, optimal operations of water and wastewater systems and enhance citizen engagement regarding their household demand. All of these digital solutions heavily relay on different sensor data, provided via the FIWARE platform, and include flow, water quality, and pressure readings. I'm thankful for the opportunity to have a role within the project and hope it will benefit from my experience

Elad Salomons

i) Want to learn more, look at the first series of Fiware4Water webinars7

Fiware4Water participated to the organisation of a series of webinars to raise awareness on FIWARE, Water Data models & EPANET. All the sessions were successful with a participation between 35 to 53 persons. The three webinars are available on line.

Webinar #1 - FIWARE Ecosystem for water management (Monday November 25th 9:30-10:30CET). Purpose of the session was to provide participants with a global understanding of the FIWARE offer and pointers to further exploit this platform capabilities.
- **Overview of the FIWARE ecosystem: Fernando Lopez (FIWARE Foundation)**
  To understand the FIWARE architectural paradigm and overall ecosystem (catalogue of enablers, the labs, data models, the community)
- **Example of interaction with a NGSI-LD broker: Benoit Orihuela (EGM)**
  To understand how to interact with a FIWARE broker, using the latest Linked Data evolution of the interface specification (NGSI-LD)

Webinar #2 - Data models for water management (Tuesday November 26th 9:30-10:30CET). Purpose of the session was to present and discuss on-going work in data modelling for water management ☐
Overview of existing models for water management: Albert Chen (University of Exeter)
Overview of the current landscape of data models in water systems.
- **The SAREF4WATER semantic model: Raúl García Castro (Universidad Politécnica de Madrid)**
  Presentation of the semantic model for IoT management in water systems
- **The NGSI-LD cross domain ontology: Franck Le Gall (EGM)**
  Overview of the NGSI-LD cross domain ontology as a basis to exchange context information across domains.

Webinar #3 - The EPANET Water network simulator (Wednesday November 27th 9:30-10:30CET). The EPANET simulator: Fanlin Meng (University of Exeter). Purpose of the session was to provide participants with a global understanding of the EPANET water network simulator

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[7] Link on the website for the section "Want to learn more": Link : https://bit.ly/2vSoNQJ

j) Save the dates8

4-8ᵗʰ May 2020: Join Fiware Foundation at the IFAT World's Leading Trade Fair for Water, Sewage, Waste, and Raw Materials Management!

FIWARE Foundation will be running shows on May 5 (13-17h) and May 6 (10-13h) in the Federal Association booth of KOMMUNAL 4.0. We will be more than pleased to showcase together on stage expertise, technology trends and use cases around WATER.

23-24ᵗʰ June 2020: With the support of #F4W, an agreement has been reached with the #FIWARE foundation to host a Smart Water Technical Workshop during the forthcoming FIWARE summit in Malaga (https://www.fiware.org/summit/).

The workshop will take place on the 23rd afternoon. The discussions will focus on FIWARE based implementations (planned or on-going) for the water domain.

k) Liaison activities9

Fiware4Water has been developed within an environment of existing initiatives. The project is part of the ICT4Water cluster (https://www.ict4water.eu/), a hub for EU-funded research and innovation projects on **ICT applied to water management**. Currently, **around 40 projects are members of the cluster**. These are both ongoing projects and projects that were members of the cluster before their completion. In the latter case, the ICT4Water site continues to display links to the projects' webpages and to selected project outcomes (e.g. videos, IT tools open to the public). This permanent link between the cluster and the projects, even after their completion, helps **showcasing project results and supports their dissemination and exploitation**.

F4W has 3 sister projects that have been funded under the same call than Fiware4Water and started in 2019: **Scorewater** (https://www.scorewater.eu/) focussing on the resilience of European cities; **Naiades** (https://naiades-project.eu/) supporting the modernization and digitization of the water sector by providing a holistic solution for the control and management of water ecosystems and **Digital Water.City** (https://www.digital-water.city) aiming at boosting the integrated management of waters systems in five major European urban and peri-urban areas. The collaboration among the 3 projects and Fiware4Water has been initiated and will start with joint actions such events participations.

l) How to get involved?

Project email: fiware4water@oieau.Fr

Fiware4Water

Website: www.fiware4water.eu

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[8] Link on the website for the section "Save the dates": https://bit.ly/38Mndgv

[9] Link on the website for the section "Liaison activities" https://www.fiware4water.eu/links