



SCOREwater

Smart City Observatories implement Resilient Water Management

DELIVERABLE D7.8 ORGANIZE EVENTS

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Author(s)	De Jong P.M.
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ABBREVIATIONS

Abbreviation	Definition
CKAN	Comprehensive Kerbal Archive Network
ICT	Information and Communications Technology
IoT	Internet of Things
SDG	Sustainable Development Goals
SME	Small and Medium-sized Enterprise
IP	Intellectual Property
UNI	Universeum
FC	Future City Foundation
CM	Consortia Meeting
DW2020	Digital Water 2020 Synergy Group. Made up out of 5 EU-funded projects dealing with digital water: Fiware4Water, Aqua3S, Digital Water City, NAIADES and SCORE Water.
NWP	Netherlands Water Partnership

PROJECT ABSTRACT

SCOREwater focuses on enhancing the resilience of cities against climate change and urbanization by enabling a water smart society that fulfils SDGs 3, 6, 11, 12 and 13 and secures future ecosystem services. We introduce digital services to improve management of wastewater, stormwater and flooding events. These services are provided by an adaptive digital platform, developed and verified by relevant stakeholders (communities, municipalities, businesses, and civil society) in iterative collaboration with developers, thus tailoring to stakeholders' needs. Existing technical platforms and services (e.g. FIWARE, CKAN) are extended to the water domain by integrating relevant standards, ontologies and vocabularies, and provide an interoperable open-source platform for smart water management. Emerging digital technologies such as IoT, Artificial Intelligence, and Big Data is used to provide accurate real-time predictions and refined information.

We implement three large-scale, cross-cutting innovation demonstrators and enable transfer and upscale by providing harmonized data and services. We initiate a new domain “sewage sociology” mining biomarkers of community-wide lifestyle habits from sewage. We develop new water monitoring techniques and data-adaptive storm water treatment and apply to water resource protection and legal compliance for construction projects. We enhance resilience against flooding by sensing and hydrological modelling coupled to urban water engineering. We will identify best practices for developing and using the digital services, thus addressing water stakeholders beyond the project partners. The project will also develop technologies to increase public engagement in water management.

Moreover, SCOREwater will deliver an innovation ecosystem driven by the financial savings in both maintenance and operation of water systems that are offered using the SCOREwater digital services, providing new business opportunities for water and ICT SMEs.



EXECUTIVE SUMMARY

In the first 15 months of the SCOREwater project a range of events were initiated. See annex 1 for the full list. All these events had as a goal to 'share and discuss the adaptive deployment of sensors algorithms and models and the set-up of processes for using the platform and the data'. Not every event covers every aspect, every event has its own target group and theme. There are three types of events that can be distinguished, internal, local, international. Internal events made use of the existing knowledge of the consortium members, and were usually organized within the setting of a multiple day consortium meeting. The local events were initiated in the shape of workshops with local stakeholders. Local meaning, belonging to a certain case study, Amersfoort, Barcelona or Gothenburg. These workshops were mainly used to discuss the sensor deployment and to gather 'use cases' that are used in the development of the SCOREwater data marketplace (the platform). The international events were used to present and discuss the developments within SCOREwater with a broader audience. In the near future (end of 2020 start of 2021) cross-stakeholder events will be organized to connect the different local stakeholder groups. Due to Covid-19 the SCOREwater events needed to be fully digital, we successfully managed to do this.

The SCOREwater developments will be integrated in the programs of Universeum. Universeum will produce products/activities for a broad audience, activities that create public awareness about city water management and the smart technology that supports our societal sustainable development. The first step has already been taken, an online platform of distribution: Digital Universeum.



1. INTRODUCTION

These are strange times, with Covid-19 influencing almost every aspect of our lives. The event sector is one of the sectors that has been hit especially hard. Most events are being cancelled or postponed. Of course this influences this deliverable, which is for a big part dealing with events. However it is not all doom and gloom, the SCOREwater project successfully managed to stay visible through online events.

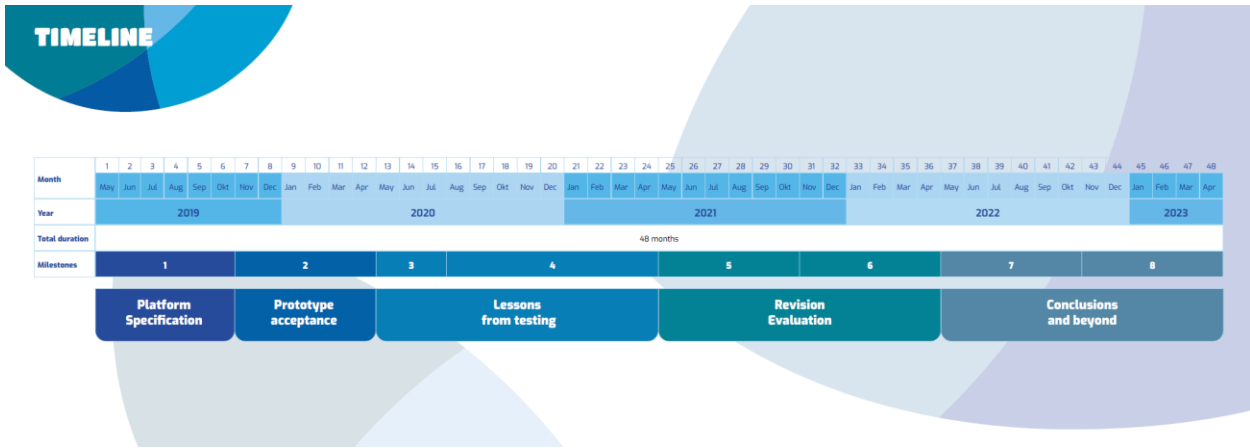


Figure 1 | Timeline of the SCOREwater project

Deliverable 7.8 covers the first 15 months of the project. As illustrated in Figure 1 |Timeline of the SCOREwater project, this period overlaps with the first 3 milestones of the project. Milestone 1 (platform specification and verification), milestone 2 (prototype acceptance), milestone 3 (prototype verification). This is a phase of building up the project and it reflects in the type of events that are being held. The focus of these events was on getting input from local stakeholders, discussing the deployment of sensors and gathering user stories. At the same time steps were taken in order to attract a more international crowd of stakeholders by participating in online events. This also gave exposure to the project.

‘Initiate local events to share and discuss the adaptive deployment of sensors, algorithms and models and the set-up of processes for using the platform and the data. UNI will implement programs for public audience as well as schools in Gothenburg.’ This is the exact text from deliverable 7.8, which is titled ‘Organize Event’. To explore this deliverable in more detail and to increase the readability of this document, the deliverable is dissected into three parts.

Initiate local events to share and discuss the adaptive deployment of sensors, algorithms and models and the set-up of processes for using the platform and the data

1. **Internal focus:** With consortium partners spread out across three different geographical and sociocultural planes namely Amersfoort, Barcelona and Gothenburg it is important to stay aligned and take advantage of the existing expertise. Furthermore, in developing new technological solutions one has to take into account the intellectual property (IP) rights such as, patents, trademarks, industrial designs. To keep track of this Talkpool organized several internal workshops.
2. **External focus:** Taking into account the wishes of the local stakeholders is of the utmost importance in developing the SCOREwater solutions. That is why the stakeholder workshops are put into place. Each case study has their own circle of stakeholders that need to stay connected to the solutions developed. However, it does not stop at the local level. The goal is to (eventually) export the solutions to a broader audience, to connect the different groups of local stakeholders. Multiple events that are organized or attended by the consortium partners are aimed at this international audience.

3. **UNI will implement programs for public audience as well as schools in Gothenburg.** The programs implemented by the Science Center Universeum are primarily focused on the youngsters and accompanying parents. In this sense it differs from most of the other events organized within SCOREwater since these are aimed at professionals in the water sector. Data from the SCOREwater project will be integrated into projects from Universeum and presented under the big, sustainable programme umbrella. A roadmap is in place.

The structure of this document is as follows. It starts with the events initiated by SCOREwater, looking into past and planned internal and external events on both the local and the international level. Followed by describing the events we did not organize ourselves, but participated in to increase the visibility among water professionals and showcase our approach. The document concludes with the implementation of programs by Universeum.

2. INITIATING EVENTS

The Future City Foundation (FC) is a public-private partnership offering a FIWARE-platform (FIWARE Lab) and community for Smart City innovation. FC supports organizations in the Netherlands to find innovative solutions to societal issues by offering low-barrier access to industry expertise in the field of digital service innovation. It provides participating organizations with optimal support structures for successful digital services development. This includes access to open data, API-platforms, test beds, living labs, fiber optic networks, funds, education and training and business development support. FC is one of the FIWARE IHubs in Europe and is involved in many interregional cooperation networks. For example the Open and Agile Smart Cities network (OASC) and the European Innovative Platform Smart Cities (EIP). FC supports and creates ways for market roll-out with a wide experience in marketing, communication and organization of several (on- and offline) events to get together with our European network.

Key to the success of FC is a very big network. As leader of WP7 and supporter at several other tasks within the SCOREwater project, FC uses their experience in marketing, communication and organization of events and European network to communicate about the experiences, use cases and data of SCOREwater to several target audiences.

This chapter is about the events initiated under the SCOREwater name and events in which SCOREwater had an active role in shaping it as a the co-organizer or the organizer. Chapter 3 deals with all the other events we participated in.

2.1. MOVE TO ONLINE EVENTS

As mentioned in the introduction, the Covid-19 pandemic forced SCOREwater to focus on hosting online events instead of physical events.

Three different software solutions are being utilized for managing and hosting online events. The type of software begin used delimits how the target audience of an event can be engaged. For example, some solutions support the possibility of breaking up a larger event into multiple smaller sessions. These smaller sessions encourage participants to interact more with each other and gives individuals more talk time, albeit to a smaller audience. This proves to be very effective in a workshop setting. The software being used are Webex ([link](#)) Zoom ([link](#)) and Microsoft Teams ([link](#)) They all have their flaws and merits.



Figure 2 | Microsoft Teams logo



Figure 3 | Zoom logo



Webex Meetings

Figure 4 | Cisco Webex Meetings

Microsoft Teams. It's our go-to meeting software for internal meetings, with a group size below 20 persons.

Pros:

- Most of the consortium partners have this software, so no additional software needed.
- Agenda invites directly from your Outlook.
- Most importantly, a lot of city councils work with this software and some of them have strict policies prohibiting other video call software to be installed on the work devices.

Cons:

- No clear overview of the participants participating.
- Not suitable for big groups.
- No breakout rooms.

Zoom. When hosting an online workshop or other interactive or long meeting this is the software we prefer to use.

Pros:

- It provides an overview of 50 persons at once (on a computer screen),
- It has the breakout rooms option. Meaning that without needing to close the main session, multiple other parallel sessions can be started in which people can interact with each other.
- Provides the most stable connection of all the video call software we tested and is the easiest to use as a participant.

Cons:

- Currently not all (local) government officials are allowed to use it.

Cisco Webex Meetings. When hosting online events where the interaction between the participants is not the main goal this is the software we prefer to use.

Pros:

- Provides a good overview of the participants in the session.
- Has a stable connection over all when you download the application.
- Not blacklisted by (local) governments, so a safe choice to go by.

Cons:

- No breakout rooms
- When joining directly from the browser without installing the app the connection quality can be terrible at times.

2.2. INTERNAL EVENTS

Initiate local events to share and discuss the adaptive deployment of sensors, algorithms and models and the set-up of processes for using the platform and the data

The SCOREwater consortium counts 14 project partners, each with a different set of expertise, all contributing to the strength of the SCOREwater consortium. To tap into all this available knowledge, among other things, workshops were being held during the consortium meetings. For example, during the third consortium meeting, Arjen Hof from Civity hosted a ‘Data Market Workshop’ (attached as Annex 4). During this workshop participants were actively involved in the description of the requirements and guidelines for the SCOREwater Data Market and to think about possible use cases for different user groups. This clearly relates to D7.8 since it is all about the set-up process for using the platform and data.

The SCOREwater project is an innovation project. One of the goals is being able to export the solutions developed within the project, to export the applications to other cities that are outside of the scope of SCOREwater. To be able to do this IP rights are very important. We do not want to violate existing IP rights nor do we want to risk developing solutions and not claiming the IP rights risking the reproducibility of the solutions that are developed. IP rights are not the main focus of this deliverable yet they are duly acknowledged as an important issue to the project. That is why it is important to have internal workshops on this topic. See Annex 5 for the workshop slides.

Table 1 | Internal events

Month and year	Name	Online/offline
05-2019	Consortium Meeting 1	Offline
11-2019	Consortium Meeting 2	Offline
06-2020	Consortium Meeting 3	Online
10-2020	Intellectual property workshop (one for each case study)	Online
11-2020	Consortium Meeting 4	Online

2.3. EXTERNAL EVENTS

We are distinguishing local from international events. Local events are events organized specifically for the local stakeholders from one of the three SCOREwater case studies. These events prioritize its respective case study over the project as a whole. Often these events are in the local language to be able to connect to the participants better. The international events in contrast are in English and are aimed at a much broader, international audience.

2.3.1. LOCAL

In contrast to the international events, the local events could be organized directly from the start of the project. It is important to involve the local stakeholders in the solutions that are being developed to make sure these solutions will work in practice.

Table 2 | Local events from SCOREwater

Month and year	Name	Online/offline
09-2019	Stakeholder workshop Amersfoort (1)	Offline
09-2019	Stakeholder workshop Barcelona (1)	Offline
09-2019	Stakeholder workshop Gothenburg (1)	Offline
04-2020	Stakeholder workshop Barcelona (2)	Online
04-2020	Stakeholder workshop Gothenburg (2)	Online
05-2020	Stakeholder workshop Amersfoort (2)	Online
09-2020	Sensor placement event Amersfoort	Offline
11-2020	Water in the climate resilient city (= translation since the event is for a Dutch audience and probably in Dutch. In collaboration with NWP)	Online
2021 and further	Stakeholder workshops for all the three cases	Online & Offline

2.3.2. INTERNATIONAL

Below the events and sessions with an international audience which were(co-)organized by the SCOREwater consortium. Only the events that were (partially) shaped by SCOREwater are included in this list. Not the events were SCOREwater had the stage for a brief while amidst other speakers.

International events are an effective tool to get the interest of a broader group of stakeholders, however you need to share concrete results in order to engage this audience. As a result of this, the organization of international events came in the picture a few months after the start of the project. The more progress is made within the project the more there is to share. During the end of 2020 - beginning of 2021 we will try to connect the different groups of local stakeholders buy organizing several cross-case stakeholder events. The first one focusing on the SCOREwater Data Marketplace and its potential. See Annex 5 for a more elaborate description of the different planned sessions.

Table 3 | International events from SCOREwater

Month and year	Name	Online/offline
04-2020	Gothenburg and water management with the SCOREwater project	Online

10-2020	Digital Around the World Event (Timeslot of one hour, together with sister projects from the DW2020 synergy group)	Online
11-2020	1st cross-case stakeholder event (could also be at the beginning of December)	Online
02-2021	2nd cross-case stakeholder event	Online
06-2021	3rd cross-case stakeholder event	Online

3. GETTING THE STAGE

Next to the events organized in the name of SCOREwater, the project was also visible on various stages. Included in Annex 1 is a combined list with all these events and the events mentioned in the previous chapter (Table 1, Table 2, Table 3). Some digital events did make their recordings publicly available, the links to this recordings can be found in Annex 1. All the events marked in red are planned events, due to take place in the (near) future.

Being visible during events through a presentation, branding, etc., is important to increase engagement and have audience members learn more about the project and reach out to us. In this sense it helps to grow the group of (local) stakeholders who want to get involved. Furthermore, presentations during an event are often followed by a Q&A especially so at online events, thus enabling a direct interaction with the community.



Figure 5 | offline and online events

4. IMPLEMENTING PROGRAMS

Universeum is a public arena for life-long learning where children and adults can explore the world through natural science and technology. Universeum creates experiences that boost creativity and capacity for innovation, increase knowledge and activate critical thinking. With science as a foundation and teaching methods that engage, Universeum challenges people to enrich their lives and take action to achieve a sustainable world.

Universeum emphasizes life-long learning. It is never too early nor too late to acquire new knowledge about the world. And knowledge is what is needed if we are to achieve the Global Goals by 2030. As a science center, they have an important role to play when Sweden is to transform into a sustainable society.

Since 2017 The Global Goals for Sustainable Development have been the point of departure for Universeum, when developing new programs. Their vision is that the programs must be grounded on the real needs and questions from the 'outside world'. Strengthened skills supply, improved achievement of targets in schools and digital switch-over are some of them. All development takes place in close collaboration with the founders and partners. Therefore Universeum is happy to present the result from SCOREwater project under the big, sustainable programme umbrella.

4.1. UNIVERSEUM PRODUCTS

Universeum will produce products/activities for a broad audience, activities that create public awareness about city water management and the smart technology that supports our societal sustainable development.

Universeums educators are experts in making science comprehensible to all different target groups. The main target group for the activities produced for the SCOREwater-project are children aged ≈10-14. In order to encourage a more water friendly behaviour in this picky age-group, we need to

- start with the broader picture: a sustainable society
- learn about water cycles and system
- get to know different types of water
- engage in smart technology
- get my hands on sensors and programme
- give concrete examples and show simulations
- work with digital material
- offer packaged tools for classrooms

4.2. THE DIFFERENT STEPS

1. The first step of this journey is the platform of distribution; Digital Universeum was launched in September 2020 (M17) and offers science pass-members and schools a unique community for science center activities. The launch of the platform was an essential event, an enabler for future development and communication. Thus, the platform will be the main forum for creating a more water friendly public.
2. The next step will be educating the educators. In order for them to start developing an interactive, effective and enjoyable activity we need to get them fully equipped. They will meet with project partners and others and learn the essence of city water- system and management and the technology behind it.

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- To produce activities between M18 - M23, our educational developers would need a proper amount of input from the SCOREwater project. One time-consuming activity is collecting concrete examples, creating graphics and/or other tools and examining and transforming the data from Gothenburg SCOREwater case. Will it be understandable for a 13-year old? How can the data be visualized? Simulations and connections are important. Hands-on activities likewise. This has to be considered and discussed during the development process: Is real data important or should we work with generic data and design? Since using concrete examples is an important part of the activity, and we also really would like to use actual data from the SCOREwater-results, how long can we push this development?

Note: this is one reason why the activities have not already been implemented (originally planned in M15) - we need the (processed) data from the project (or similar data) in order to finish a relatable product. The later the implementation, the better and more concrete data and examples could be collected.

- Packaging the program content is the last step in the production process (M23-M30). The activities will be digitized and poured into the digital platform and made available to the various target groups. Clips, pictures, games or quizzes can be different parts that need to be packaged.
- Once the activities are produced, assessed, adjusted and digitally packaged we will implement them to Universeums visitors. There are two major events connected to this step: the launch of the activities for the public - during summer season (M26-28) and then for schools - during autumn semester (M29-30).
- Both public and school-activities will be evaluated; did the participants' engagement increase and/or inspire behavioral change? For a better understanding of the result we'll collect statistical data of our activities, to be accounted for in the final report.
- Lessons learned summarized and final report written.

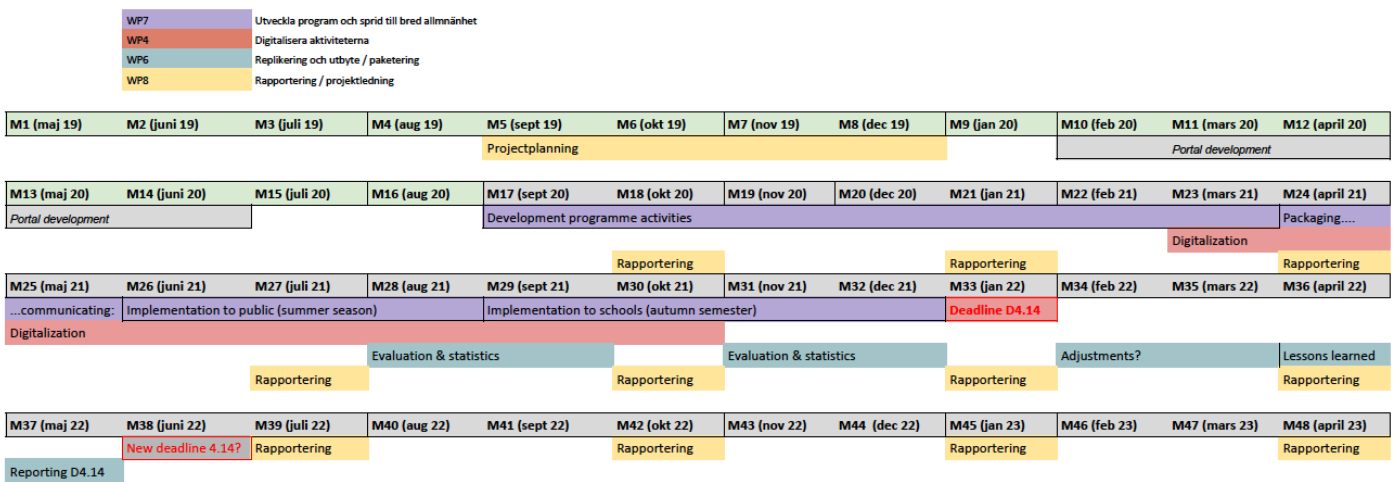


Figure 6 | Universeum activity plan



5. REFERENCES

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ANNEX 1 – EVENT LIST

Below the SCOREwater participation at events. The red text indicates events that are due to happen in the foreseeable future.

EVENTS IN 2019

Month	Name	Link	Language	Location	Visibility	Host	Casestudy
may-19	Consortium Meeting 1		ENG	Gothenburg	Internal		General
sep-19	SW stakeholder workshop (1) Amersfoort		NL	Amersfoort	Host	Amersfoort partners	Amersfoort
sep-19	SW stakeholder workshop (1) Barcelona		Catalan	Barcelona	Host	Barcelona partners	Barcelona
sep-19	SW stakeholder workshop (1) Gothenburg		SE	Gothenburg	Host	Gothenburg partners	Gothenburg
oct-19	European Week of Regions and Cities	website	ENG	Brussels	Presentation	Utrecht Region	General
oct-19	Get Connected 2019 Annual Conference for the Utrecht Region - Hoe gebruiken we water-data voor een gezondere stad?	website	NL	Utrecht	Presentation	Economic Board Utrecht (EBU)	General
oct-19	Waste & Water - Projektet SCOREwater - Digitalisering för att nå en motståndskraftig vattencykel i våra städer	website	SE	Åbymässan, Gothenburg	Presentation	Water & Waste	Gothenburg
oct-19	FIWARE Global Summit -Enabling a water smart society that enhances the resilience of cities	website	ENG	Berlin	Presentation	FIWARE	General
oct-19	IoT World Congress	website	ENG	Barcelona	Presentation	EURECAT	Barcelona
nov-19	Aquatech Amsterdam - EU Innovation Project Pavillon	website	ENG	Amsterdam	Presentation	Aquatech Amsterdam	General
nov-19	Consortium Meeting 2		ENG	Barcelona	Internal		
nov-19	WOW DINNER Barcelona	website	Catalan	Barcelona	Presentation	FC	Barcelona

EVENTS IN 2020

Month	Name	Link	Language	Location	Visibility	Host	Casestudy
mrt-20	Future City online borrel met de wethouder van de G40 themagroep 'Smart Cities'	YouTube	NL	Online	Branding	FC	General



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mrt-20	FIWARE and their solutions for Smart Cities	YouTube	ENG	Online	used as example	FC	General
apr-20	SW stakeholder workshop (2) Gothenburg		SE	Gothenburg	Host	IVL	Gothenburg
apr-20	Coliving: the future of urban living - with Colonies	YouTube	ENG	Online	Branding	FC	General
apr-20	Göteborg and water management with the SCOREwater project	YouTube	ENG	Online	Presentation	FC	Gothenburg
apr-20	Smart City Lessons From South Korea	YouTube	ENG	Online	Branding	FC	General
apr-20	Make your smart city an European smart city!	YouTube	ENG	Online	Branding	FC	General
apr-20	SW stakeholder workshop (2) Barcelona				Host	Barcelona partners	Barcelona
may-20	Inclusive Smart Cities are Business	YouTube	ENG	Online	Branding	FC	General
may-20	Online Mission to China - Technology to enhance the quality of life	YouTube	ENG	Online	Branding	FC	General
may-20	SW stakeholder workshop (2) Amersfoort		NL	Online	Host	Amersfoort partners	Amersfoort
jun-20	100 smart cities in 5 years! - online mission to India	YouTube	ENG	Online	Branding	FC	General
jun-20	Demonstration and workshop of platform and sensor integration(WP3) during CM3		ENG	Online	Internal	Civity	General
sep-20	Sensor placement Amersfoort	website	NL	Offline	Host	Amersfoort partners	Amersfoort
sep-20	FIWARE water day	website	ENG	Online	Presentation	FIWARE	General
oct-20	Intellectual property workshop by Talkpool		ENG	Online	Internal	Talkpool	Amersfoort
oct-20	Intellectual property workshop by Talkpool		ENG	Online	Internal	Talkpool	Barcelona
oct-20	Intellectual property workshop by Talkpool		ENG	Online	Internal	Talkpool	Gothenburg
oct-20	Digital Around the World Event (DW2020 collaboration)		ENG	Online	Presentation	IoT Forum	General
nov-20	Water in de klimaatbestendige stad		NL	Online	Presentation / host	FC/NWP/Jelmer	General
nov-20	SW stakeholder workshop (3) Barcelona - Engaging the public health sector		Catalan		Host	Barcelona partners	Barcelona
nov-20	1st cross-case stakeholder event (could also be at the beginning of december)		ENG	Online	Host	FC & Civity	General
no date yet	SW stakeholder workshop (3) Gothenburg		SE		Host	Gothenburg partners	Gothenburg



**2021 AND FURTHER**

Month	Name	Link	Language	Location	Visability	Host	Casestudy
feb-21	2nd cross-case stakeholder event		ENG			FC + Barcelona partners	General
apr-21	SW stakeholder worksop (4) Barcelona - Enhancing sewer system maintenance		Catalan		Host	Barcelona partners	Barcelona
jun-21	3rd cross-case stakeholder event		ENG			FC + Gothenborg partners	General
okt-21	SW stakeholder worksop (5) Barcelona - Engaging the public health sector		Catalan		Host	Barcelona partners	Barcelona
no date yet	Stakeholder workshop Amersfoort in the first half of 2021		NL				Amersfoort
no date yet	Stakeholder workshop Gothenburg in the first half of 2021		SE				Gothenburg
(M26-28)	the launch of the activities for the public - during summer season		SE			UNI	
(M29-30)	the launch of the activities for schools - during autumn semester.		SE			UNI	





ANNEX 2 – INFORMED CONSENT FORM

and Information Sheet

SCORE WATER

Workshop September 2019

The purpose of this document is to obtain your informed consent to participate in a SCOREwater workshop and inform you about what your participation entails. Participation is voluntary.

Project Information

Project SCOREwater	Title:	Project 2019-2023	Duration:
Principal Investigator: Johan M. Sanne		Coordinator: IVL Swedish Environment Institute Box 100 31 Stockholm Tel: +46 10-788 65 00 E-mail: *****(redacted)	21060

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PURPOSE OF THE PROJECT AND WORKSHOP

You are being asked to participate in a workshop conducted as part of the SCOREwater project.

SCOREwater focuses on enhancing the resilience of cities against climate change and urbanization by enabling a water smart society that fulfils SDGs 3, 6, 11, 12 and 13 and secures future ecosystem services. We introduce digital services to improve management of wastewater, stormwater and flooding events.

These services are provided by an adaptive digital platform, developed and verified by relevant stakeholders (communities, municipalities, businesses, and civil society) in iterative collaboration with developers, thus tailoring to stakeholders' needs. Existing technical platforms and services (e.g. FIWARE, CKAN) are extended to the water domain by integrating relevant standards, ontologies and vocabularies, and provide an interoperable open-source platform for smart water management. Emerging digital technologies such as IoT, Artificial Intelligence, and Big Data are used to provide accurate real-time predictions and refined information. We implement three large-scale, cross-cutting innovation demonstrators and enable transfer and upscale by providing harmonized data and services.

Amersfoort case:

Amersfoort is a riverine city with 155,000 inhabitants in the Utrecht region of the Netherlands. The city has ample experience of co-creation with citizens, including citizen science (e.g. Measure Your City). Various city apps and sensor projects (noise, air quality, and parking) have been developed and tested to engage citizens. Amersfoort city uses several urban ICT platforms (FIWARE, HydroNET, City Innovation Platform, SCADA systems of Platform Water Vallei & Eem). In the Railway Station area, a large underground biking lot is subject to frequent flooding and water nuisance. The Schothorst district is a neighbourhood with low areas that is significantly affected by groundwater flooding, in particular during and after heavy rainfall. Extended droughts lead to deterioration of surface water quality and surface water life in the drainage canals throughout the district.

The objective is to demonstrate how climate and flooding resilience can be achieved with the engagement of citizens and other relevant stakeholders in the co-creation, co-design and co-implementation of urban water management innovations.

PROCEDURES & PURPOSE

Your participation in this project involves participating in a workshop/a number of workshops to help and contribute with specification for developing of the SCOREwater platform, define user needs and barriers for implementation etc. Your input from the workshop may feed into a report where the preconditions of relevant stakeholders are being described as well as input to specification and implementation of the SCOREwater approach and platform.

Aims with the workshop <Update with specific info relevant for the workshop>:

- Informing (external) stakeholders about the SCOREwater project;
- Verifying current plans;
- Collecting additional opportunities;
- Generating interest for cooperation with potential new partners.

RISKS

There are no risks associated with your participation in this workshop. No sensitive or personal information will be required or sought from participants.

Any new information developed during the SCOREwater workshop that may affect your willingness to continue participation will be communicated to you.



OWNERSHIP AND DOCUMENTATION OF INFORMATION

Your personal identity will be kept anonymous in the report. Any and all data gathered as a result of these participatory exercises will be retained in full accordance with the relevant national regulations and legislation regarding data protection. No confidential, sensitive or personal information will be required or sought from participants.

The notes made in connection with workshop will be compiled in a public report as a deliverable to this project. You will if you so wish be given the opportunity to review the results of the workshop, and have the option to amend your input.

By participating in this project, you will be making an important contribution to the goals of SCOREwater which is to develop and test water-smart digital solutions and best practices to strengthen cities' resilience about climate change and urbanization, focusing on wastewater, flooding and stormwater monitoring and management. You may also gain knowledge and insight on innovative approaches that are being developed within the project and in the water sector.

FINANCIAL CONSIDERATIONS

There is no financial compensation for your participation in this research.

CONFIDENTIALITY

Information collected by SCOREwater that is not already in the public domain (i.e. workshops) will be fully anonymized. The results of the workshop, including any data, will be published as part of the projects deliverables. But will not give your identity.

Any records or data or information obtained as a result of your participation in the workshop may be inspected by the European Commission, by any relevant agency, by the SCOREwater Steering Committee, or by the persons conducting this workshop (provided that such inspectors are legally obligated to protect any identifiable information from public disclosure, except where disclosure is otherwise required by law or a court of competent jurisdiction.) These records will be kept private in so far as permitted by law.

TERMINATION OF WORKSHOP PARTICIPATION

If at any time during or after the workshop you wish for your data to be deleted from dataset, you may contact the coordinator:

Associate Professor Johan M. Sanne
IVL Swedish Environment Institute
Box 21060
100 31 Stockholm
Tel: +46 10-788 65 00
E-mail: *****(redacted)

It may be necessary for the sponsor of the project (European Commission) to terminate the SCOREwater project without prior notice to, or consent of, the participants in the event of a loss of funding or other unlikely, exceptional circumstances, such as the failure of the consortium to deliver the deliverables committed as part of the contract and grant agreement.





AVAILABLE SOURCES OF INFORMATION

Any further questions you have about this project will be answered by the Principal Investigator:

Associate Professor Johan M. Sanne

IVL Swedish Environment Institute

Box 21060

100 31 Stockholm

Tel: +46 10-788 65 00

E-mail: *****(*redacted*)

Any questions you may have about your rights as a research subject may also be answered by the SCOREwater consortium partner who has contacted you.





AUTHORISATION

I have read and understand this consent form, and I volunteer to participate in this workshop for the SCOREwater project. I understand that I will receive a copy of this form. I voluntarily choose to participate, but I understand that my consent does not take away any legal rights in the case of negligence or other legal fault of anyone who is involved in this workshop. I further understand that nothing in this consent form is intended to replace any applicable EU, state, or local laws.

Participant Name:	Participant Signature:	Date:

Name of Person Obtaining Consent:

Signature of Person Obtaining Consent:



ANNEX 3 – IPR WORKSHOP

5-10-2020



What is Intellectual Property (IP)

- Intellectual Property (IP) is a group of legal rights that provides protection over things people create or invent
- Typical methods of protection
 - Contract
 - Trade Secrets
 - Copyright
 - Trademark
 - Patents
 - Publications

Why is it important

- Attract investments
- Protect others from stealing your ideas
- Deter others from entering a market
- Defend against other patent portfolios
- License or trade with others

Patents

- Protect implementation of technical ideas
 - Article of Manufacture (e.g. light bulb)
 - Systems (e.g. cell phone)
 - Composition of Matter (e.g. compounds)
 - Process
 - Microwaving foods (Spencer)
 - Search engine (Google)
 - 1-click purchase (Amazon)
- Software
 - Software programs, apps or code cannot be patented as such (SE)
- Patent search
 - <https://worldwide.espacenet.com/patent/search>
 - <https://patents.google.com/>



Open source

- Usually not fully “open”
- Business limitations
- Impact IPR strategy
- **Copyleft**
“Practice of offering people the right to freely distribute copies and modified versions of a work with the stipulation that the same rights be preserved in derivative works created later”

IPR type	Intellectual property	Copyright	Patent	Trade secret
Design	Patent	Copyright	Patent	Trade secret
Software	Patent	Copyright	Patent	Trade secret
Other	Patent	Copyright	Patent	Trade secret

ScoreWater IPR Strategy workshop

- Inventory of patentable ideas
- Set strategy for own ideas
 - Patent
 - Trade secret
 - Publish
- Inventory of open source components
- Set strategy for potential infringements

Patentable ideas

Strategy

Patent

Publish

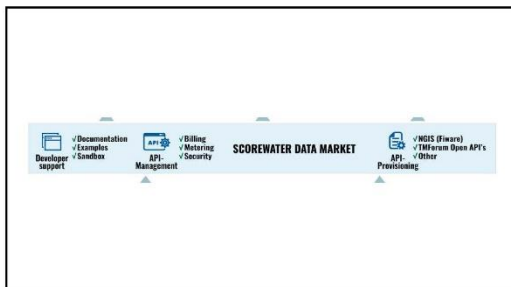
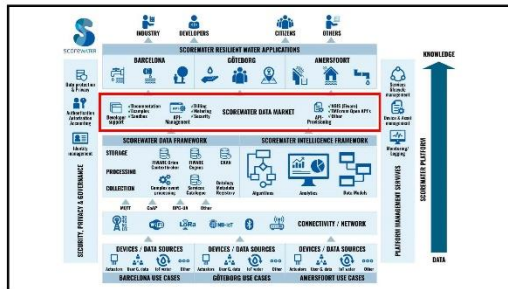
Trade secret

Open source components

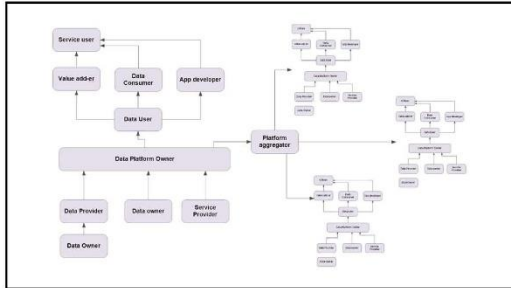
Possible infringements

ANNEX 4 – DATA MARKET WORKSHOP

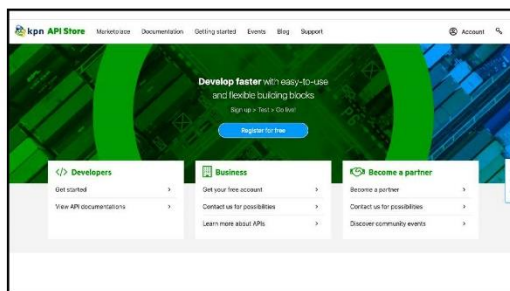
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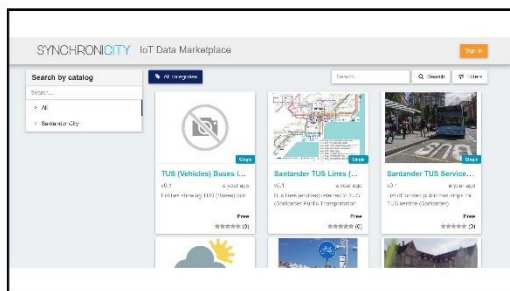
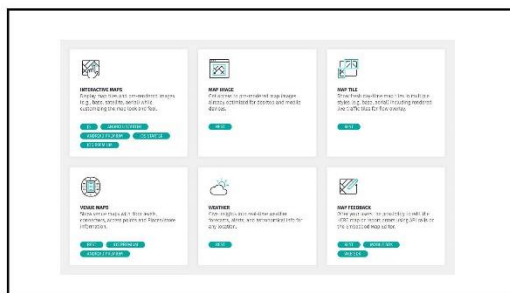
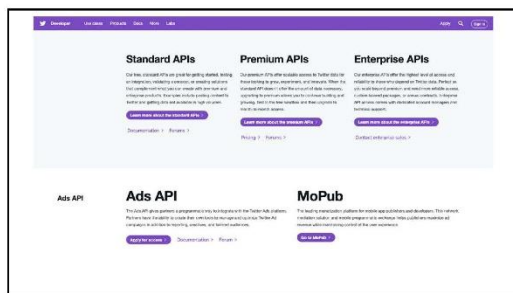
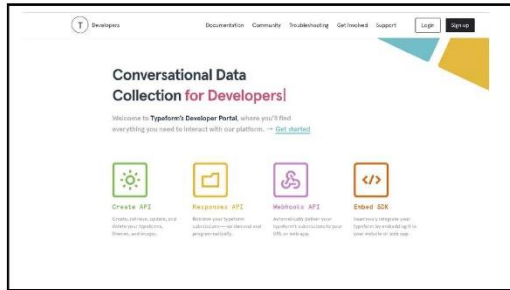


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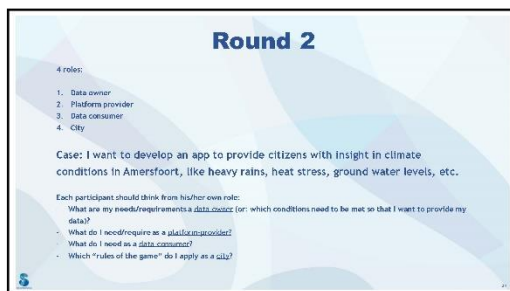
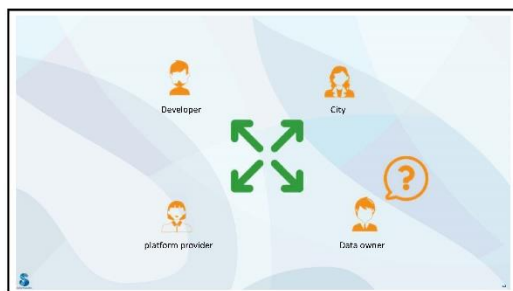
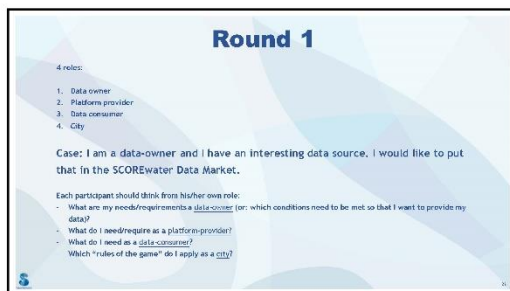
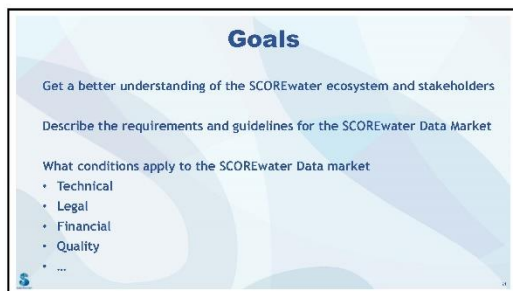


Category	Sub-category	Details
2020-2021	Platform Aggregator	...
2020-2021	Data Consumer	...
2020-2021	Data Provider	...
2020-2021	Data User	...
2020-2021	Data Owner	...





5-10-2020





5-10-2020

Round 3

4 roles:

1. Data owner
2. Platform provider
3. Data consumer (developer)
4. City

Case: The app that was developed, receives a lot of bad reviews in the app store. People complain about the data-quality and the performance of the app (showing the data). The app developer reaches out to the other stakeholders.

Discuss what is needed for each stakeholder to solve this issue (technical, process, financial, legal, etc.)?

Summary and conclusions

THANKS!

Bas Vanmeulebroek & Arjen Hof
bas@city.nl arjen@city.nl

SCOREWATER

This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under grant agreement no. 820751



ANNEX 5 – CROSS-CASE STAKEHOLDER EVENTS

< DATE 25-08 2020 >

For the background story to this proposal one has to go back to the last consortium meeting. During the sessions the wish to share more across the different case studies was voiced. The three cases all have their unique angle, however everything will feed back into the SCOREwater platform. To connect all the stakeholders from the individual cases to the bigger picture, we suggest the following. If there are any comments or remarks, please let them know.

DIGITAL EVENT

The idea is to launch three small events, all aimed at all the stakeholders from the 3 cases. Each of these workshops will have a own theme/focus. All these events will be hosted in English and will be 1 hour long. Future City will take on the technical aspects and the invitation. For each session we need one project partner that's responsible for the content of the event. We could see the following themes:

1ST CROSS-CASE STAKEHOLDER EVENT

- Just after summer, suggestion October/Nov 2020
- Host: FC + Civity
- The (first version of the) marketplace should be up and running by then. This would be a good opportunity to present this marketplace and show the possibilities.

2ND CROSS-CASE STAKEHOLDER EVENT

- February 2021
- Host: FC + Eurecat
- It would be good to show how the data can be used. In this session we can go deeper into the data analysis side.

3RD CROSS-CASE STAKEHOLDER EVENT

- Just before summer, June 2021
- Host: FC + Talkpool/Hydrologic
- This session deals with the value propositions of the SCOREwater data from the marketplace.

WHY WE SHOULD DO IT!

1. It helps the SCOREwater partners to show their deliverables to a wider audience.
2. It helps the spread of knowledge across all the cases.
3. It engages the stakeholders.

ANNEX 6 – STOCKTAKING

A final Annex of stocktaking was included in all Deliverables of SCOREwater produced after the first half-year of the project. It provides an easy follow-up of how the work leading up to the Deliverable has addressed and contributed to four important project aspects:

1. Strategic Objectives
2. Project KPI
3. Ethical aspects
4. Risk management

STRATEGIC OBJECTIVES

Table 1 lists those strategic objectives of SCOREwater that are relevant for this Deliverable and gives a brief explanation on the specific contribution of this Deliverable.

Table 1. Stocktaking on Deliverable’s contribution to reaching the SCOREwater strategic objectives.

Project goal	Contribution by this Deliverable
SO2 “Harmonize and improve interoperability opportunities in the water sector by enhancing and adopting water/ICT open standards, ecosystems, vocabularies and ontologies.”	This deliverable contributed to this strategic objective by enabling an ongoing conversation with stakeholders through workshops and other types of events.
SO4 “Demonstrate benefits of smart water management for increased water-system resilience against climate change and urbanisation by applying the SCOREwater approach in 3 high-profile, large-scale, cross-cutting innovation demonstrators across Europe.”	This deliverable contributed to this strategic objective through the organized events, giving the different case studies (the innovation demonstrators) a podium. On stage the developments were shared with the audience. This will continue to take place, following the project’s progress.
SO6 “Increase citizen involvement and engagement in the transition to a water-smart, resilient society by increasing the public perception of the value of water and public engagement and commitment”	This deliverable contributed to this strategic objective through hosting external events aimed at a wider audience. Offering also the opportunity for input through interactive sessions online and offline.

PROJECT KPI

Table 2 lists the project KPI that are relevant for this Deliverable and gives a brief explanation on the specific contribution of this Deliverable.

Table 2. Stocktaking on Deliverable’s contribution to SCOREwater project KPI’s.

Project KPI	Contribution by this deliverable
4,5,6	These KPIs deal with the achievements of the three different case studies. With deliverable we contributed in this by assisting or organizing stakeholder workshops in which stakeholders could deliver their input. Next to this, communicating and demonstrating the progression made also raises awareness by a bigger audience. Below the 3 KPIs

Project KPI	Contribution by this deliverable
	<p>4 - In Gothenburg, reduce the pollutant load from construction works</p> <p>5 - In Amersfoort, reduce the flooding risk through integrated water management</p> <p>6 - In Barcelona, reduce the release of wet wipes and discharge of oils and greases and antibiotics to the sewer systems</p>
19,20	<p>Organizing external events in English helped to reach a broader group of (potential) stakeholders. It helped us to reach people that were not aware of SCOREwater before the event. For example the event in collaboration with the Netherlands Water Partnership, gives us access to a different network. To keep in touch with the external stakeholders, social media like Twitter and LinkedIn are used.</p> <p>Below the KPIs</p> <p>19 - New markets for application in EU identified and approached</p> <p>20 - Number of external stakeholder groups identified and approached</p>

ETHICAL ASPECTS

Table 3 lists the project’s Ethical aspects and gives a brief explanation on the specific treatment in the work leading up to this Deliverable. Ethical aspects are not relevant for all Deliverables. Table 3 indicates “N/A” for aspects that are irrelevant for this Deliverable.

Table 3. Stocktaking on Deliverable’s treatment of Ethical aspects.

Ethical aspect	Treatment in the work on this Deliverable
Justification of ethics data used in project	N/A
Procedures and criteria for identifying research participants	N/A
Informed consent procedures	For the workshops we have an ‘informed consent’ form (Annex 2). For other, online meetings, there is an informed consent procedure when registering for that specific event.
Informed consent procedure in case of legal guardians	N/A
Filing of ethics committee’s opinions/approval	N/A
Technical and organizational measures taken to safeguard data subjects’ rights and freedoms	Secure internal way of sharing information through Sharepoint (created by IVL)
Implemented security measures to prevent unauthorized access to ethics data	N/A
Describe anonymization techniques	N/A
Interaction with the SCOREwater Ethics Advisor	N/A

RISK MANAGEMENT

Table 4 lists the risks, from the project’s risk log, that have been identified as relevant for the work on this Deliverable and gives a brief explanation on the specific treatment in the work leading up to this Deliverable.

Table 4. Stocktaking on Deliverable’s treatment of Risks.

Associated risk	Treatment in the work on this Deliverable
Few Attendance (work plan 7.8)	<p>This risk is mostly related to the events. Until now we managed to keep attendance high, however with COVID-19 being present the physical meetings are off the table. To prevent stagnation we switched to the online channels, and successfully moved some of the events online. The ‘new’ risk that the online events pose is that it is more difficult to hold the attention of the participants.</p> <p>On a positive note, the online events also provide opportunities to link groups of stakeholders located in different geographical area’s together which is much harder to achieve with offline events.</p>
Not enough input from case leaders (work plan 7.8)	<p>The delays on milestone 3, prototype verification, also rubs of on deliverable 7.8. Especially in the organization of external events, input from the cases (through the case leaders) is important. When the different case studies experience delays (among other things through Covid-19) this also influences when certain events can be hosted.</p> <p>However we managed to overcome this by extending the due date of D7.8 from M15 to M17, still staying in the same reporting period.</p>



SCOREWATER

WWW.SCOREWATER.EU

