

Programme Overview

IWA Digital Water Summit



30 November

08:00 – 18:00	REGISTRATION
09:00 – 10:00	OPENING CEREMONY with Kalanithy Vairavamoorthy (<i>Executive Director of the International Water Association</i>), Fernando Morcillo (<i>President of Spanish Association of Water Supply and Sanitation (AEAS)</i>), Kepa Odriozola , <i>President of Consorcio de Aguas Bilbao Bizkaia (CABB)</i>
10:00 – 10:30	KEYNOTE MONITORING TO INSIGHT Vikki Williams , <i>Digital Water Leader - Arup</i> Hear how environmental monitoring improves decision-making in the built environment, shown through two case studies.
10:30 – 11:30	TECHNICAL PRESENTATIONS UNLOCKING THE DIGITAL POTENTIAL Chair: Will Sarni , <i>Water Foundry</i> The introduction of digitalisation in the water sector has radically transformed the way traditional processes, from wastewater treatment to customer service, are carried out. The theme Unlocking the Digital Potential will highlight real-world digital adoption case studies and how digital solutions have enhanced water management and generated company revenue. Spanish Ministry for Ecological Transition Integral Water Cycle Digitalisation Plan — Alejandra Puig Infante (<i>Deputy Assistant Director, Water Protection and Risk Management Subdivision, Spanish Water Agency – Ministry for Ecological Transition</i>) Real digital adoption case studies — Roxana Marin (<i>VP Eastern Europe - Xylem</i>) Digitalisation and the adoption of new technologies in industrial processes — Maria Angeles Vicente (<i>Systems Director - Aqualia</i>)
11:30 – 12:30	MORNING BREAK INNOHUB SESSION & NETWORKING InnoHub Presenters: Case study: how smart wastewater technology prevents SSOs in the City of Houston — Guillem Bosch (<i>Sales Technician - Idrica</i>) Needs and benefits of digitising the entire water cycle through an Artificial Intelligence of Things Platform — Sergio Arróniz Prado (<i>Business Unit Director: Civil Engineering, Marine & Environmental B.U. - Grupo Álava</i>)

12:30 – 14:00

TECHNICAL PRESENTATIONS | DIGITAL PLATFORMS

Chair: **Saba Daneshgar**, *University of Ghent*

Digital platforms and drones can increase design flexibility, boost efficiency, and simplify the procedures of sharing information between team members and clients. This session will look at the most recent technological advances.

Digital strategy for commercial losses reduction — **Ainhoa Lete** (*Co-founder and CEO - BuntPlanet*) & **Unai Lerma** (*Commercial Director - Consorcio de Aguas de Bilbao*)

Leveraging facts (data) to achieve rational results — **Sergio T. Coelho** (*Co-founder and CEO - Baseform*)

Digital sustainability: the future of water is here — **Maria Gil** (*Spain Country Manager - Idrica*)

Creating a Watershed Digital Twin for operational hydro-ecological forecasting services — **Apostolis Tzimas** (*Project Lead - PrimeWater*)

Inspection and 3d digitalization of ordunte canal by autonomous flying robots — **Nerea Landaburu** (*Deputy Director Projects and Works Supply - Consorcio de Aguas Bilbao Bizkaia*) & **Fran Espada** (*Founder and CEO - Hovering Solutions*)

14:00 – 15:30

LUNCH BREAK | INNOHUB SESSION & NETWORKING

InnoHub Presenters:

The DRAIN software — **José Manuel Baraibar** (*Technical Director - Viuda De Sainz, SA*)

The “CABB” Water Hall — **Natalia Alegria Gutierrez** (*Professor - University of the Basque Country*)

The Hach’s Claros™ Water Intelligent System and its feature: the Mobile Sensor Management — **Luis Navarro** (*Business Development Manager - Hach Lange Spain, SLU*)

15:30 – 16:00

KEYNOTE | DATA, DECISIONS, DIGITAL – THE ROLE OF TECHNOLOGY IN TRANSFORMING WATER

Valentina D’Aniello, *Vice President Global Product Management Wastewater Pumping - Xylem*, introduced by: **Magnus Arnell**, *RISE - Research Institutes of Sweden*)

What does the water utility of the future look like? What's possible as utilities across the globe adopt and implement digital technology? Join Valentina D'Aniello, water industry expert, as she describes what is ahead for water utilities.

16:00 – 17:00

INTERACTIVE SESSION | DIGITAL TRANSFORMATION TODAY

Chair: **Enrique Cabrera**, *IWA*

Digitalisation is advancing everywhere, and numerous pilot projects and examples are available now, but not all digital will be part of the sector's paradigm shift. This session will concentrate on the key features of water

digitalisation in different regions around the world, as well as how digital solutions can contribute to different realities. It will also cover how various stakeholders should begin to channel their digitalisation efforts and what changes are required for these initiatives to be successful in organisational culture, capacity building, and even sector governance. With:

Rik Thijssen (*Director Business Development and Innovation - Vitens*)

Pedro Pina (*Senior Director, Client Development Europe & Emerging Markets - Xylem*)

Vikki Williams (*Digital Water Leader - Arup*)

17:00 – 18:00

AFTERNOON BREAK | INNOHUB SESSION & NETWORKING

InnoHub Presenter:

Garry Tabor (*Director of Smart Water Solutions - ATi Badger Meter Company*)

Representative (*Baseform*)

Representative (*Elliot Cloud*)

18:00 – 20:00

SOCIAL EVENT | WELCOME LIGHT DINNER RECEPTION by Aqualia

01 December

08:00 – 18:00

REGISTRATION

09:00 - 09:30

KEYNOTE | TITLE TBC

Cecilia Wennberg, *Executive Vice President Water in Cities Global Business Unit - DHI*, introduced by **Pilar Conejos**, *Idrica*

09:30 – 11:00

TECHNICAL PRESENTATIONS | THE DIGITAL JOURNEY

Chair: **Pilar Conejos**, *Idrica*

Working towards the digitalisation of the water sector necessitates a restructuring and a significant shift in terms of business practices. It is more than simply a matter of technology. Presenters will share examples of how their organisations initiated and are continuing along their digital transformation curve during the Digital Journey session.

A roadmap for digital transformation of urban water systems — **Magnus Arnell** (*Researcher - RISE Research Institutes of Sweden*)

Focusing on digital maturity and transformation: AquaRating tools for utility improvement — **Francisco Cubillo** (*Senior International Consultant - IDB*)

AGS's path towards digitalisation — **Joao Feliciano** (*CEO - AGS*)

The Digital Watershed (TM) and Watershed Health — **William Sarni** (*Founder and CEO - Water Foundry*) & **David Grant** (*Global Sustainability Director - PepsiCo*)

You'll never walk alone on the digital transformation journey — **Youri Amerlinck** (*Researcher - Aquafin NV*) & **Ronny Goossens** (*Head of Digital - Aquafin NV*)

11:00 – 12:00

**MORNING BREAK |
INNOHUB SESSION, & NETWORKING**

InnoHub Presenters:

Apostolis Tzimas (*Project Lead - PrimeWater*)

Improving WWTP performance by transforming activated sludge into granular sludge — **Liliana Velasco** (*Information Technology Manager - MINSAIT*)

Representative **Adasa**

12:00 – 13:30

**TECHNICAL PRESENTATIONS |
DIGITAL INNOVATION**

Chair: **Joana Cassidy**, AGS

The Digital Innovation Session will explore the advent of technological innovations in boosting the management of water systems, asset management, water treatment, and water loss. The water sector is experiencing an accelerated digital transformation fuelled by connectivity, higher monitoring capabilities and the development of IT platforms. Data management and digitalisation are key. Attendees will have the opportunity to see first-hand the applications of the solutions and their results.

Boost the integrated management of water systems by leveraging the potential of data and digital technologies — **Nicolas Caradot** (*Head of group 'Smart City and Infrastructure' - KWB gGmbH*) & **Ulf Stein** (*Senior Fellow and Coordinator Water Studies - Ecologic Institute*)

CFD solutions for water treatment facilities — **Javier Climent Agustina** (*CEO - Hydrens*) & **Eduardo Ayesa** (*Principal Researcher Water and Waste Group - CEIT*)

Digital innovation in the water industry — **Cosmin Koch** (*R&D Head of Digital Innovation - Acciona*)

Water loss management - every drop counts! — **Nicolas Picard** (*Digital Product Manager - Veolia*) & **David Maisonneuve** (*Performance Manager - Water Networks Technical Expert at Access to Water & Sanitation*)

Implementing Asset Management at Waternet: the Water Cycle Approach — **Eric Voost** (*Asset Manager/Risk Manager - Waternet*) & **Eljakim Koopman** (*IT Domain Director - Waternet Digitalisation Department*)

13:30 – 15:00

**LUNCH BREAK |
INNOHUB SESSION, & NETWORKING**

Innohub Presenter:

Álvaro Fernández del Amo (*Finance Business Development Manager - Hovering Solutions*)

WaterFolder.com: digital design platform of drainage systems — **Pawel Licznar** (*Director -Retencja*)

Representative **Vitens**

15:00 – 15:30

KEYNOTE | UNLOCKING THE REGENERATIVE POWER OF WATER

José Diaz-Caneja, CEO - Acciona

Climate Change threatens water security in four different ways: Jose Diaz-Caneja will present these in this keynote.

By 2030, the world could face a global water deficit of 40% under a business-as-usual scenario. Climate change is disrupting weather patterns, leading to extreme weather events and impacting over water availability globally.

15:30 – 16:30

INTERACTIVE SESSION | MEASURE-2-MANAGE

Chair: **Oliver Grievson**, IWA

Measuring/instrumentation and the data it generates are critical components of Digital Water, and the notion would be meaningless without them. In this interactive event, we will discuss data and its sources, as well as how, simply put, we can improve measurement in the water business. From instrumentation to fuzzy sensors, we will examine data and its various sources as a crucial building component of Digital Water. With:

Pilar Conejos (Water Supply Specialist/Digital Twin Manager - Idrica)

Luis Navarro (Business Development Manager - Hach Lange Spain, SLU)

Jordi Raich Montiu (Iberia Managing Director & Co-founder - s::can)

16:30 – 17:00

AFTERNOON BREAK

17:00 – 18:00

INTERACTIVE SESSION | SEEING DIGITAL

Chairs: **Oliver Grievson**, IWA & **Cecilia Wennberg**, DHI

Being able to visualise data and information is one of the keys to delivering Digital Water. There are millions of pieces of data and information that the water industry collects every day. How do we visualise all of this data? How do we make sense of it all? The key is to visualise it in ways that stakeholders can understand. In this interactive session, we will look at how, using Digital Water techniques we can make sense of all of this data and combat DRIP using the various Digital Tool available from algorithms to AI and dreaded dashboards to picture-perfect visualisations we will examine how we can make sense from the noise. With:

Biju George (EVP - Ampcus Inc)

Prabhu Chandrasekeran (Intelligent Water National Practice Leader - Arcadis)

18:00 – 20:00

SOCIAL EVENT | PINTXO CHALLENGE

08:00 – 18:00

REGISTRATION

09:00 – 09:30

KEYNOTE | CORPORATE INNOVATION – INNOVATIVE ORGANISATIONS IN CHANGING ENVIRONMENTS

Michael Bednar-Brandt, *Business Owner - Bednar-Brandt Innovation*

Challenging the audience to the human side of cultural transformation, programs versus movements, corporate innovation fitness, and your personal role in that game.

09:30 – 11:00

TECHNICAL PRESENTATIONS | CYBERSECURITY

Chair: **Biju George**, *Ampcus Inc*

The Cybersecurity Session will shed light on the advancements of cybersecurity assets. The theme of Cybersecurity will explore how companies are reducing the risk of cyber-attack. Participants can expect to learn more about the best practices used to minimise these risks. Attendees will be presented with the latest unmanned AI solutions that monitor and prevent physical threats to industrial water facilities. They will also be presented with control systems in water and wastewater treatment plants that minimise risks and secure business assets both financially and physically. Witness the water sector's steps towards a secure, fully automated, and AI-driven industry.

Digital Eyes - cybersecurity of unmanned remote operation — **Saleh S. AlFuwairess** (*Senior Industrial Computer Engineer - Aramco*) & **Ahmed M. AlRammah** (*Computer Engineer - Saudi Aramco*)

Defence-in-Depth Concept for the Water and Wastewater Industry — **Pedro Romero Sanchez** (*Head of Data Services/Head of Cybersecurity Services - Siemens*)

11:00 – 12:00

MORNING BREAK | INNOHUB SESSION & NETWORKING

Innohub Presenter:

Veolia water loss management solution demo - Presentation info pending — **Nicolas Picard** (*Veolia*)

How software can protect the aquatic environment – Case studies from Poland — **Maciej Pawelec** (*IT Manager – Rentecja*)

12:00 – 13:30

TECHNICAL PRESENTATIONS | BUILDING ON DIGITAL SUCCESS

Chair: **Cathy Liu**, *Kemira*

In this session delegates will hear about the improvements new technologies bring to water sanitation, wastewater treatment, potable waters, and their distribution networks. Learn about the 'biofactory', a novel system that supports the transition towards a circular economy by ensuring high-efficiency operations, enabling the recovery of added-value subproducts and energy from wastewater.

	<p>Hear about machine learning applications. In addition, attendees will witness the real-case implementations of high-frequency remote reading systems within a water supply system.</p> <p>The use of online water quality monitoring to improve operations in the drinking water treatment plant and the distribution network - A real case in the province of Tarragona (Spain) — Jordi Raich (<i>Iberia Managing Director & Co-founder - s:can GmbH</i>) & Aleix Martorell (<i>Water Engineer - Consorci d'Aigües de Tarragona - CAT</i>)</p> <p>An intelligent process for the automatic creation of optimised renewal worksites — Kevin Nirsimloo (<i>Associate Director, Innovative Services - Altereo</i>) & Representative</p> <p>Digital Twin with real-time high-frequency data collection — Miguel Toledo (<i>IoT Lead Engineer & Sales Manager EMEA - Datakorum Solutions, S.L.</i>)</p> <p>A 360° view of a digitalization process in a sanitation company in Brazil — Murillo Borges (<i>Director of Operation - Igua Saneamento</i>)</p> <p>From DALL-E to the biofactory: next-generation Computer Vision supporting the intelligent operation in Wastewater Treatment Plants — Rafael Giménez (<i>AI R&D Leader - AGBAR</i>)</p>
13:30 – 15:00	<p>LUNCH BREAK INNOHUB SESSION & NETWORKING</p> <p>InnoHub Presenters:</p> <p>A decentralized solution for digitalization, data acquisition and remote control — Carlos Ruiz Cabeza (<i>Westermo Data Communications SL</i>)</p> <p>Grundfos' digital solutions to minimize your energy consumptions together with water and wastewater challenges — Ulrik Højbjerg (<i>Grundfos</i>)</p>
15:00 – 15:30	<p>KEYNOTE </p> <p>George Kibala Bauer, <i>Director, Digital Utilities - GSMA</i></p>
15:30 – 16:30	<p>INTERACTIVE SESSION DIGITAL FUTURES</p> <p>Chair: Enrique Cabrera, <i>IWA</i></p> <p>There is little debate about the water future being digital. However, what can we expect in the near future? How will digitalisation efforts evolve until the next IWA Digital Water Summit? What are the greatest challenges that the sector will face to achieve a digital future and what are the relevant strategies to overcome those challenges? Are there any disruptive technologies or events on the horizon? This session will focus on the digital future and how to make the most of it. With:</p> <p>Randolf Waters (<i>Senior Director: Global Partnerships & Branding - Xylem</i>) Vladan Babovic (<i>Professor - NUS</i>) Elena Torfs (<i>Assistant Professor at BIOMATH- University of Gent</i>)</p>
16:30 – 17:00	<p>CLOSING CEREMONY</p>
20:00 – 00:00	<p>SOCIAL EVENT GALA DINNER</p>