

IWA World Water Congress & Exhibition



Water action –

The path to resilience and prosperity

Business Forums

**GLASGOW,
UNITED
KINGDOM**

4-8 OCTOBER
2026

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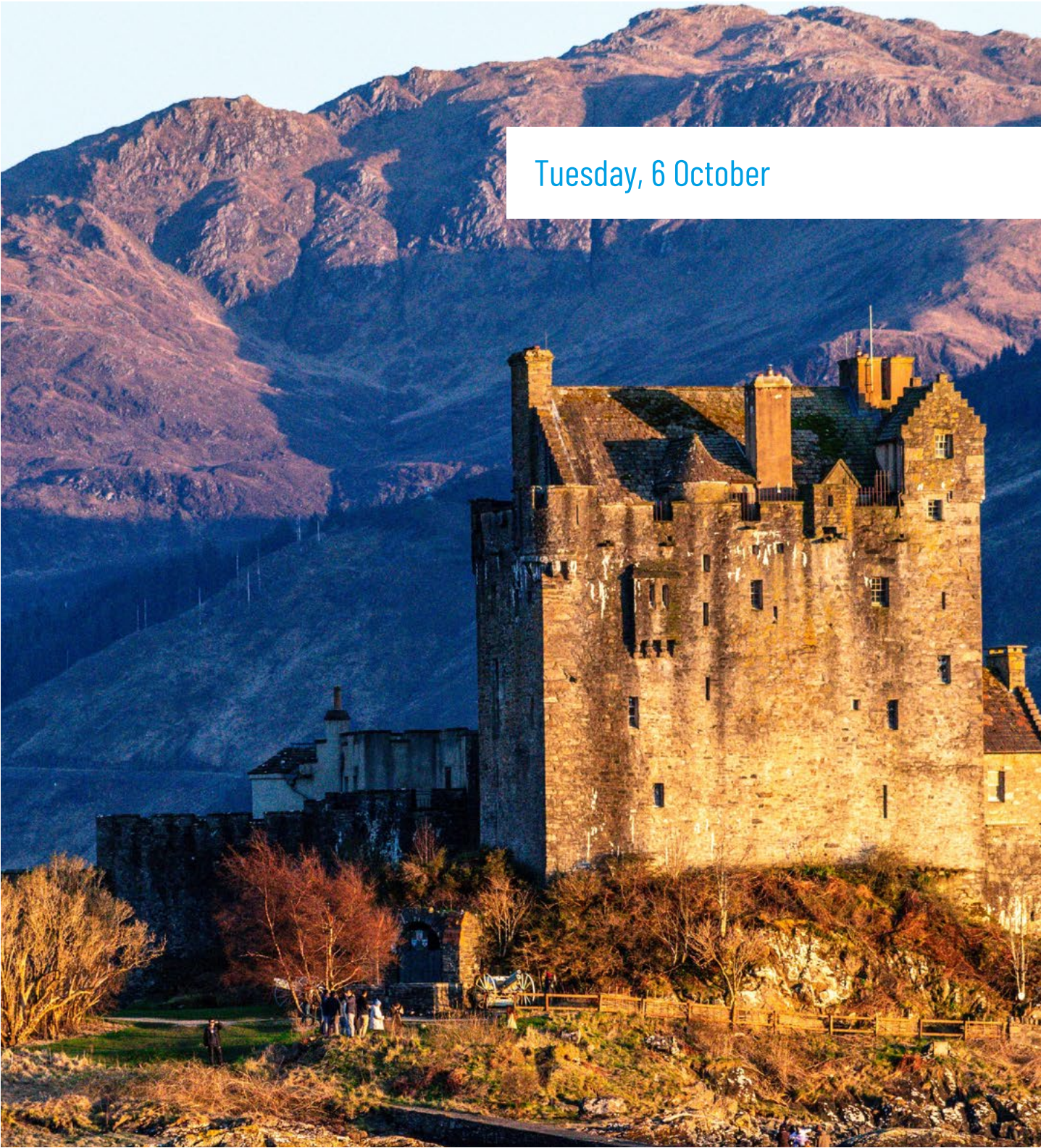
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GRUNDFOS 



Tuesday, 6 October

Track 1

**WATER UTILITY
MANAGEMENT**

Track 2

**WASTEWATER
TREATMENT AND
RESOURCE RECOVERY**

Track 3

**DRINKING WATER
AND POTABLE REUSE**

Track 4

**CITY-SCALE
PLANNING AND
OPERATIONS**

Track 5

**COMMUNITIES,
COMMUNICATION
AND PARTNERSHIPS**

Track 6

**WATER RESOURCES
AND SUSTAINABLE
DEVELOPMENT**



Business Forums overview

Learn about challenges and innovations

The Business Forums are a full component of the technical programme of the IWA World Water Congress & Exhibition and provide a series of sessions where sponsors and exhibitors present their innovations and projects that contribute to shaping our water future.

LOCATION: EXHIBITION HALL

Monday 5 October		Tuesday 6 October		Wednesday 7 October	
BF 1	BF 2	BF 1	BF 2	BF 1	BF 2
9:45 – 10:30 Manchester University	9:45 – 10:30 Csignum	9:45 – 10:30 Massphoton limited	9:45 – 10:30 Cappgemini	9:45 – 10:30 RSE (Ross-shire Engineering Ltd)	9:45 – 10:30 EDC Canada
10:30 – 11:15 bioMérieux	10:30 – 11:15 Shenzhen Koronsoft	10:30 – 11:15 Xylem	10:30 – 11:15 Selwood / The Workdry Group	10:30 – 11:15 Xylem	10:30 – 11:15 Cambii
11:15 – 12:00 Mott MacDonald	11:15 – 12:00 BYOHM	11:15 – 12:00 RSE (Ross-shire Engineering)	11:15 – 12:00 Zhuzhou Southern Valve	11:15 – 12:00 Zora Ecosystems	11:15 – 12:00 Hach
12:15 – 13:00 GreenBlue Urban	12:15 – 13:00 Arup	12:15 – 13:00 RSE (Ross-shire Engineering)	12:15 – 13:00 bNovate Technologies	12:15 – 13:00 Bureau of Waterworks, Tokyo Metropolitan Government	12:15 – 13:00 MemBrain s.r.o.
13:30 – 14:15 Watura / Leakmited UK	13:30 – 14:15 Grundfos	13:30 – 14:15 Skewb	13:30 – 14:15 Grundfos	13:30 – 14:15 JES + W&E	13:30 – 14:15 Grundfos
14:15 – 15:00 Ningbo Donghai Group Corporation	14:15 – 15:00 Hangzhou Liaison	14:15 – 15:45 German Pavilion	14:15 – 15:00 Malaysia Water Association - Sarawak	14:15 – 15:00 Pennon / CREWW	14:15 – 15:00 Tetra Tech
15:00 – 15:45 Grundfos	15:00 – 15:45 AECOM		15:00 – 16:30 Netherlands Pavilion	15:00 – 15:45 Kohtari	15:00 – 15:45 Stonbury
15:45 – 16:30 RSK	15:45 – 16:30 Sweco			15:45 – 16:30 Veolia	15:45 – 16:30 Jacobs
16:30 – 17:15 RSK	16:30 – 17:15 Sweco	16:30 – 17:15 Huizhong Instrumentation Co., Ltd.	16:30 – 17:15 Autodesk	16:30 – 17:15	16:30 – 17:15 RSE (Ross-shire Engineering)



Thursday 8 October	
BF 1	BF 2
9:45 – 10:30 Tata Consulting Services (TCS)	9:45 – 10:30 Calba
10:30 – 11:15 Scotmas Group Ltd.	10:30 – 11:15 Badger
11:15 – 12:00 AtkinsRéalis	11:15 – 12:00 UK Pavilion
12:15 – 13:00 M Group	12:15 – 13:00 Grundfos



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Keynote Plenary 09:00 - 09:45	
BUSINESS FORUM ROOM 1	BUSINESS FORUM ROOM 2
9:45 — 10:30 MANCHESTER UNIVERSITY Advances in Graphene Enhanced Membrane Systems – From Lab to Scale This talk will provide an overview of recent research and advances in graphene-modified membrane technology, with a focus on how these materials are being scaled up and deployed in industrial systems. It will highlight how graphene's distinctive properties — including its barrier performance, exceptional strength and high surface area can enhance membrane performance for applications such as wastewater treatment, toxin and pollutant removal, microorganism filtration and gas or chemical separation. The presentation will also cover recent developments in graphene-modified antifouling coatings for marine environments, alongside the equipment capabilities available at the Graphene Engineering Innovation Centre (GEIC). These facilities support cutting-edge characterisation and performance testing of membrane systems, enabling links between structure and function to be explored. Routes for industry engagement with the GEIC will also be discussed. <i>Dr Aula Alwattar, Dayle Whittaker</i>	9:45 — 10:30 CSIGNUM Rethinking water quality monitoring infrastructure As water quality monitoring programmes expand, the greatest challenge is no longer sensor technology but deploying monitoring infrastructure at scale. Drawing on lessons from the UK's Section 82 implementation, this presentation explores why traditional wired approaches struggle with land access, flood risk, planning constraints and deployment times. It examines how wireless electromagnetic communications can simplify installation, reduce infrastructure requirements and accelerate large-scale monitoring without compromising data quality. Using practical deployment experience from UK river projects, the session highlights how utilities can build monitoring networks that are faster to deploy, easier to manage and better suited to future regulatory and environmental demands. <i>Graeme Boyce</i>
10:30 — 11:15 bioMérieux Pathogen surveillance with near-source solution in the context of UWWT In the context of evolving UWWT challenges and regulatory expectations, there is a growing need to move from reactive monitoring toward proactive pathogen surveillance. The WATCHFIRE solution brings a near-source approach, enabling early detection of pathogens directly within wastewater networks, closer to the point of emission. By combining targeted molecular assays with decentralized deployment, WATCHFIRE supports faster risk identification, improved outbreak preparedness, and more actionable data for operators and public health stakeholders. This approach complements existing treatment monitoring by adding a critical upstream layer, helping wastewater professionals anticipate sanitary risks and contribute actively to community health protection. <i>Franck Chatigny</i>	10:30 — 11:15 SHENZHEN KORONSOFT Smart water strategy & practice of Guangdong Water Smart Water Strategy & Practice of Guangdong Water This presentation will share KORON's integrated hardware and software solutions for smart water management. It will focus on key challenges faced by water utilities, including metering management, water loss control, network operations, customer services and data integration. It will show how smart water meters, sensors and remote data collection devices can work together with digital water platforms, GIS-based network management, billing and customer service systems, and operational management tools. By connecting field-level sensing with data analytics and business workflows, the solution helps water utilities improve resilience, efficiency and sustainability. <i>Lettice Wu</i>
11:15 — 12:00 MOTT MACDONALD How secure are desalinated water supplies? A risk-based view of reliability and failure This session shares a practical approach developed with EWEC and Mott MacDonald to strengthen operational security of supply in a large desalinated water production and transmission system. Using historical incident data, planned outages and preventive maintenance, a bespoke stochastic risk model generates hundreds of plausible failure scenarios to quantify disruption risk, identify hotspots and test mitigations before implementation. The approach supports operators to balance cost, maintenance and resilience, and provides an auditable view of performance against risk-appetite KPIs. Attendees will take away a transferable method for operational planning and assurance under uncertainty. <i>Alvaro Bueno Buoro, Tony Bradley, Paul Chadwick, Jonathan Manser, Dr. Mohamed Abdalla</i>	11:15 — 12:00 BYOHM Energy positive wastewater treatment Wastewater contains significant chemical energy, yet conventional treatment often consumes power while losing valuable organic matter as waste. This creates a major circularity gap for the water sector: energy is spent treating a resource that could instead help generate clean power, reduce emissions and improve resilience. BYOHM is addressing this challenge using microbial electrochemical systems, where enhanced biology and electroactive microbes convert wastewater organics into useful energy carriers. By developing systems that produce hydrogen and methane in a net-positive way, BYOHM is working to turn wastewater treatment from an energy burden into a circular clean-energy asset. <i>Dr. Daniel Carlotta-Jones</i>
12:15 — 13:00 GREENBLUE URBAN Retrofitting nature-based SuDS into urban spaces Retrofitting sustainable drainage into constrained urban environments presents significant technical and delivery challenges. This talk will focus on practical strategies for implementing blue-green infrastructure within existing places that enrich more than they consume and leave a lasting positive legacy. Drawing on live retrofit schemes, the session explores how cities can transition toward more water-sensitive urban environments without waiting for large-scale redevelopment opportunities. <i>Shane Frost</i>	12:15 — 13:00 ARUP Navigating complexity to accelerate digital transformation in water – using real world examples to unlock value How do you deliver digital transformation in complex organisations without sacrificing governance or control? This session examines how agile delivery approaches can work within complex organisations to accelerate change, improve collaboration, and deliver value sooner. Real-world examples from capital delivery and digital programmes will demonstrate how organisations can balance agility with the demands of large-scale infrastructure investment. <i>Jeremy Doherty, Joe Shuttleworth, Liam McHugh (Calba), Stephen McAinsh (Calba)</i>
13:30 — 14:15 WATURA / LEAKMITED UK Presentation of Leakmited and water challenges in the UK Leakmited helps water companies achieve measurable, lasting performance improvements, through software and solutions designed for the operational challenges of the field. Water utilities in the UK share common leakage challenges: aging infrastructure, growing pressure on resources, and fragmented tools that make it hard to act, monitor, and plan. Leakmited addresses all three levels at once. Sprint, our performance-based leak detection service, deploys experienced teams to tackle critical zones fast, with guaranteed results - no improvement within 2 weeks, no payment. Twin, our platform, gives operators a clear, collaborative view of their network, from daily monitoring to long-term investment planning. Exploitation, our software that enables the daily location of water leaks across the network in just a few minutes, in order to prioritise interventions. 100+ utilities in France and Europe already trust Leakmited — up to 77% NRW reduction, x3 detection performance increase, no additional hardware required. <i>Ashton Dewey, Pierre Le Pennec, Assila Chaab</i>	13:30 — 14:15 GRUNDFOS From pilot to business: closing the water innovation adoption gap The water sector is rich in innovation but poor in adoption. Utilities and technology providers invest significant resources in pilots, yet relatively few innovations become standard practice. Are pilots helping the sector scale solutions, or have they become an end in themselves? This interactive session explores the role of pilots in water innovation business models and examines why proven technologies often fail to progress beyond demonstration projects. Drawing on experiences from utilities, entrepreneurs, and innovation ecosystems, including perspectives from Luxembourg's water sector, participants will discuss approaches to sharing risk, building trust, and accelerating the path from pilot to lasting impact. <i>Chengzi Chew, Georges Schutz</i>

Monday | Programme

BUSINESS FORUM ROOM 1	BUSINESS FORUM ROOM 2
14:15 — 15:00 NINGBO DONGHAI GROUP CORPORATION Contract-based water-saving model + AI: collaborative innovation in urban water loss control This session presents an innovative contract-based water-saving model integrated with AI for urban water loss management. China's water utilities face severe leakage challenges, with Non-Revenue Water exceeding 20% in aging networks. Ningbo Donghai Group Corporation's model features third-party investment, performance-based revenue sharing, and full-chain digital solutions combining IoT sensing, AI analytics, and digital twins. The flagship Xiangshan project (Zhejiang Province) achieved NRW reduction from 37.8% to 8% over five years, saving 41 million m³ of water and generating RMB 224 million in economic benefits. Successfully replicated across 10+ Chinese provinces. This framework offers a scalable, low-risk pathway for global water utilities to achieve sustainable water loss management. <i>Lin Sen</i>	14:15 — 15:00 HANGZHOU LAISON Smart metering & digital solutions for sustainable water utility management Water utilities face increasing pressure to reduce NRW, improve revenue collection, and enhance operational efficiency. This session explores how smart metering and digital management solutions enable real-time monitoring, leakage reduction, accurate billing, and improved customer engagement. Through practical utility experiences, the discussion will highlight how IoT-enabled meters, AML systems, digital platforms, and mobile payment integration support data-driven operations and long-term utility sustainability. <i>Gina Chen</i>
15:00 — 15:45 GRUNDFOS From OPEX to impact: bankable efficiency for water utilities This panel will focus on improving energy efficiency in water utilities by addressing the most common operational and financial pain points they face. Through real-world experiences and perspectives from key stakeholders, the discussion aims to highlight how energy optimization can deliver tangible cost savings and strengthen the resilience of utilities. Panelists will share experiences on implementing optimization strategies, overcoming common barriers such as financing and capacity constraints, and scaling solutions across different contexts. The session aims to highlight how energy optimization can unlock value, reduce costs, and contribute to more resilient and sustainable water systems. <i>Irene Mas Martin, Adam Questad</i>	15:00 — 15:45 AECOM Reimagining water infrastructure delivery: Scottish Water's enterprise partnership Water utilities face mounting pressure to modernise ageing infrastructure, reduce pollution and meet tightening environmental standards, yet traditional delivery models are struggling to keep pace. This discussion will spotlight a bold shift: a pioneering enterprise partnership model that redefines how infrastructure programmes are delivered. By integrating design and construction partners into a single, high-performing ecosystem, Scottish Water is accelerating improvements across treatment works, sewer networks and critical assets at unprecedented scale. The discussion will explore how a redefined model is enabling this approach to unlock faster delivery, step-change environmental performance and a new benchmark for service reliability. <i>Dr. Beverley Stinson (AECOM), Alex Plant (Scottish Water), Cath Schefer (Stantec), Iain Sutherland (MGroup), Ian Bester (Mott MacDonald Bentley) Dominic Lavery (Farrans), Martin Mathers from (RSE) and Paul Sexton (Scottish Water)</i>
15:45 — 16:30 RSK The role of science and governance in water decision making As water systems become increasingly complex, decisions about infrastructure, investment, resilience and environmental outcomes are under greater scrutiny than ever before. This session brings together perspectives from policy, affordability, governance and delivery to explore how better decisions are made and how trust can be strengthened across the sector. <i>Speakers from Binnies, MWH Treatment, Nicholas O'Dwyer, Pegasys Consulting, WGM Engineering and WRc</i>	15:45 — 16:30 SWECO Dealing with flood protection and pluvial flooding in coastal cities with no tidal cycles Coastal cities in Sweden and the Baltic Sea region face growing climate challenges from combined extreme rainfall and high sea water levels. The absence of tidal cycles has historically meant that cities are planned around a relatively constant sea level, with only local variations considered. Along Sweden's west coast, storm surges can instead elevate sea levels for many hours, sometimes close to a full day, creating critical conditions when intense rainfall occurs simultaneously. Case studies from the Swedish west coast demonstrate how high topography behind coastal defences amplifies pluvial flood risks. With rising sea levels and intensifying rainfall projected, defining robust design levels is increasingly complex. The presentation will showcase striking results from detailed studies and implemented solution concepts. <i>Mattias Salomonsson</i>
16:30 — 17:15 RSK Building the next generation water system The water sector faces unprecedented pressure from climate change, population growth, ageing assets and increasing customer expectations. If we were designing a water treatment plant today, would it look anything like the one we have? This session brings together planning, engineering and delivery perspectives to ask what is preventing that future from becoming reality. <i>Speakers from Binnies, MWH Treatment, Nicholas O'Dwyer, Pegasys Consulting, WGM Engineering and WRc</i>	16:30 — 17:15 SWECO Water shortage in Sweden – how is it possible? Sweden is widely perceived as a water-rich country, yet water shortages are increasingly affecting public water supply systems. This presentation examines how local and regional scarcity can occur despite abundant national water resources. Fragmented governance and limited overarching control constrain system flexibility. Population growth and urban densification create shortages in expanding regions, while depopulation leads to surplus capacity elsewhere. Recent summer water use restrictions and critically low raw water levels in southern Sweden highlight current vulnerabilities. Climate change is expected to increase seasonal variability, emphasizing the need for adaptive management, demand-side measures, and reconsideration of water pricing. <i>Mattias Salomonsson</i>
Keynote Plenary	17:15 - 18:00

Tuesday | Programme

Keynote Plenary 09:00 - 09:45	
BUSINESS FORUM ROOM 1	BUSINESS FORUM ROOM 2
9:45 — 10:30 MASSPHOTON LIMITED Third-generation semiconductor UVC-LED: technical innovation and application outlook for digital water disinfection Focused on eco-friendly water disinfection, this presentation discusses novel UV-LED disinfection systems. We analyze pathogen inactivation efficiency and advantages over chlorination and mercury UV lamps. Field application data prove its reliability in tap water, reuse water and industrial wastewater. This low-carbon technology provides a safe, chemical-free option for global water utilities. <i>Eason Liao</i>	9:45 — 10:30 CAPGEMINI Let's Save Water: creating collective behaviour change with water efficiency campaigns Water efficiency has never been more important globally. Demand is rising as climate change makes supplies more uncertain. Delivering meaningful reductions in consumption requires both deep understanding of people, places, motivations and creative problem solving. This session will explore how the water sector can move beyond individual initiatives to create long-term, behaviour change through audience insight, behavioural science, trusted partnerships and consistent messaging. Using England and Wales' Let's Save Water programme as a case study, panellists will explore how to build public engagement at scale and discuss how these lessons could be applied in different countries and contexts. <i>Diverse speakers</i>
10:30 — 11:15 XYLEM Harnessing generative AI to build climate-smart water utilities This Business Forum explores how Generative Artificial Intelligence (GenAI) can strengthen water infrastructure resilience amid climate change, aging assets, and workforce challenges. Bringing together experts in AI and water system management, the panel will highlight real-world applications, identify high-impact opportunities, and examine key risks and enablers for adoption across the water sector. Through an interactive discussion, participants will help shape practical ideas to support the safe, affordable integration of GenAI into utility operations. Outcomes will include actionable insights and a shared vision for resilience, with key learnings later published in a white paper and expanded through a follow-up webinar. <i>TBD, Xylem, Gigi, Karmous-Edwards, KarmousEdwards Consulting, Laila, Sukkariyyah, Water Environment Federation, Robert, Bornhofen, DC Water, Annesley, Crisp, Anglian Water, Nisarg, Hirani, Scottish Water, Román Ponz Carcelén, Global Omnium</i>	10:30 — 11:15 SELWOOD / THE WORKDRY GROUP Is the age of immovable water infrastructure over? For a century we've built water systems designed never to move. Will the next century demand something different? Permanent, poured-concrete assets have long defined resilience in water management. But with climate volatility, ageing infrastructure, shifting populations, conflict, and capital increasingly competing with defence, sustainability and AI-driven energy demand, is that assumption still safe? Add tightening regulation, assets built to today's specifications may be tomorrow's compliance liability. This session explores mobility and modularity as a complement to fixed infrastructure, examining where agility has delivered real value when permanence wasn't viable. It closes with a practical question for the audience: how do we build mobility and modularity into strategy, rather than reaching for it only in a crisis? <i>Andrew Webb, Rick van der Kamp</i>
11:15 — 12:00 RSE (ROSS-SHIRE ENGINEERING) Modular ceramic ultrafiltration: delivering water quality and efficiency gains in the UK Traditionally dominated by coagulation, clarification and sand filtration, water treatment is now shifting toward Ceramic Ultrafiltration (cUF), increasingly adopted by utilities across the UK and internationally. RSE combines its modular build approach with cUF to deliver scalable, high-performance treatment plants. South Staffordshire Water's Hampton Loade scheme—currently the UK's largest of its kind—uses ceramic membranes supplied by PWNT (Netherlands). This session explores how modular cUF has improved water quality, reduced cost and carbon, and accelerated programme delivery, with lessons learned from UK deployments and practical guidance for utilities considering retrofit or new build applications. <i>Kes Juskowiak, Chris Hart, Robert Boswell - South Staffs Water</i>	11:15 — 12:00 ZHUZHOU SOUTHERN VALVE Self-adaptive water hammer protection & in-pipe residual pressure power generation This session includes two reports. The first report -Water Hammer Protection: Innovations from SPAVAL- details key technologies for intelligent water supply management through intelligent hardware to establish a "sensing-decision-control" closed loop with AI algorithms, equipping pipelines with an "automatic brake" for precise water hammer protection and optimized scheduling. Second report introduces Urban Waterlogging Early Warning and Smart Dispatch Platform. By leveraging multi-source data integration and predictive modeling, the platform facilitates a shift in decision-making from experience-based to data-driven approaches, thereby strengthening urban resilience against water-related climate challenges. <i>Dr. Min Xu, Junmin Zhang</i>
12:15 — 13:00 RSE (ROSS-SHIRE ENGINEERING) Beyond the grey - emerging nature-based solutions within new and existing water treatment assets Nature-based solutions are increasingly recognised as an essential component of resilient and sustainable water and wastewater treatment infrastructure. This forum will explore emerging approaches that integrate ecosystem services, biodiversity, and habitat amenity into both the design of new treatment systems and ecological retrofits of existing "grey" infrastructure. Participants will share lessons and insights from the design and implementation of NbS treatment schemes, while also examining broader opportunities to enhance treatment performance, improve operational resilience, and create ecological amenity within treatment assets. The session aims to bring together practitioners, utilities, researchers, and designers to explore practical, scalable, and ecologically valuable treatment solutions. <i>Nick Schreiner, Galen Fulford</i>	12:15 — 13:00 bNOVATE TECHNOLOGIES Advances in rapid microbial monitoring methods across the water cycle: from drinking water to wastewater and reuse Rapid microbial monitoring is transforming water-quality management by shifting microbiology from delayed laboratory testing towards actionable, real-time insight. This presentation explores advances across the water cycle, drawing on real-world cases and presenting new technical solutions. It shows how faster microbial data can improve risk detection, process control, regulatory confidence and operational decision-making from source to discharge and even direct potable reuse. <i>Luigino Grasso</i>
13:30 — 14:15 SKEWB From reactive to resilient: AI-led control rooms, 'women in control' panel on operational decision-making Skewb is supporting the shift from reactive operations to AI-led control rooms, enabling real-time risk identification, prioritisation and coordinated response across water networks. This session combines a practical operating model with a 'Women in Control' panel of utility leaders, exploring decision-making under pressure, incident response and capability building. Drawing on the IWA Operations Challenge control room simulation, we demonstrate how data, metrics and structured routines improve outcomes. The panel shares lived experience on what drives performance in control rooms and how digital tools enable confident, timely decisions. <i>Nicola Evans, Sarah Holland, Katrina Coulson, Cheryl Davis, Geraldine Mpouma Logmo</i>	13:30 — 14:15 GRUNDFOS Large-scale water reuse installation at Alpro/Danone's Wevelgem factory in Belgium utilizes water treatment solutions from Grundfos Plant-based food producer Alpro, a subsidiary of Danone, benefits from a major water reuse installation at its main site in Wevelgem, Flanders, Belgium. The water purification and reuse installation is the largest of its kind in the region. The water treatment solution for reuse of industrial wastewater is designed, built and operated by Azulatis. The water treatment equipment, including ultra filtration, reverse osmosis, membrane degassing and disinfection, is supplied by Grundfos. The project is often highlighted as a "factory of the future" case, combining circular water use, partnerships, and operational innovation. Many of its elements are highly transferable... <i>Jens Gjerløff</i>

Tuesday | Programme

BUSINESS FORUM ROOM 1	BUSINESS FORUM ROOM 2
14:15 — 15:45 GERMAN PAVILION <i>German afternoon — German Industry presentations: Opening: Thorsten Schulte (TRACTO / BGT) & Consul Holger Theissen</i> TRACTO Trenchless renewal of water and sewer pipelines with pipe bursting and TIGHT-IN-PIPE method <i>Roger Wahl</i> German Water Partnership Bridging Global Water Challenges with German Solutions <i>Marie-Ann Koch</i> Roediger Vacuum Vacuum Sewer, Plumbing, and Sanitation Systems for Residential Areas, Buildings & Transport Hubs <i>Igor Linde & Paul Parker</i> Blue Foot Membranes Modernising MBR plants for a water-resilient future <i>Stefan van Hoof</i> Rädlinger Primus Line Trenchless rehabilitation of asbestos cement pressure pipewith FRFP technology <i>Andreas Gross</i> Engelmann Sensor Benefits of Smart Metering <i>Benedikt Heid</i> <i>Invitation to the Get Together at the German Pavilion starting at 16:30.</i>	14:15 — 15:00 MALAYSIA WATER ASSOCIATION - SARAWAK Water security for Malaysia's growing data centre sector As Malaysia's data centre sector continues to expand, ensuring long-term water security will be critical to supporting this growth sustainably. Air Selangor is exploring various strategic mechanisms to meet the increasing demand, including public-private partnerships, alternative financing structures, water reclamation, dedicated infrastructure and the adoption of more efficient technologies. These approaches can help accelerate capacity development, improve water-use efficiency and reduce reliance on conventional potable water sources where appropriate. By combining infrastructure investment, technology, innovation and strategic partnerships, Air Selangor aims to support the growth of the digital economy while safeguarding water availability and system resilience for existing consumers and future generations. <i>Ir. Azlan Abdullah</i>
15:45 — 16:30 VIRRIDY Closing the gap: rapid optical and molecular methods for real-time bathing water quality assessment Virridy presents The Lume — a continuous, internet-connected fluorescence sensor delivering real-time water quality intelligence. With sub-ppb tryptophan sensitivity, it estimates <i>E. coli</i> risk, FDOM and <i>chlorophyll-a</i> in minutes rather than days, closing the gap between sampling and action. Peer-reviewed and validated across two continents — from the Seine to the Great Lakes — it ships as an all-inclusive subscription requiring no specialist staff. This session shares deployment results from utilities, recreational waters and environmental monitoring programmes worldwide, demonstrates the live data platform, and explores how always-on fluorescence sensing transforms regulatory compliance, public-health protection and water resilience. Discussion and Q&A follow. <i>Alex H. Johnson, Matt Ross, Whitney Knopp</i>	15:00 — 16:30 NETHERLANDS PAVILION Showcasing Dutch innovations and solutions The Netherlands brings a long tradition of collaborative, integrated water management to today's global challenges. This session highlights how Dutch organisations engage with international partners to co-develop scalable solutions across the water cycle. Through a series of short pitches, participants will showcase approaches that enable knowledge exchange, innovation, and joint implementation. The session invites utilities, cities, industry, and researchers to explore practical avenues for partnership in building resilient, sustainable, and future-proof water systems worldwide. <i>Diverse speakers</i>
16:30 — 17:15 HUIZHONG INSTRUMENTATION CO., LTD. How ultrasonic water meters help water supply companies reduce leakage rates Huizhong has developed a four-step leakage control solution through the combination of high-precision ultrasonic water meters and intelligent systems, which includes zone metering, zone diagnosis, zone management, and long-term control. This solution has helped numerous water supply enterprises worldwide reduce leakage losses. <i>Bai Jie</i>	16:30 — 17:15 AUTODESK From digital maturity to digital ambition: building resilient and sustainable urban water systems Water utilities face growing pressure from climate change, urbanization, ageing infrastructure, resource constraints, and rising customer expectations. Responding effectively requires more than adopting individual digital tools—it requires a clear ambition for how data, technology, and connected workflows can transform planning, operations, and investment decisions. This session will explore how utilities can progress from assessing their current digital maturity to defining and delivering a practical digital ambition. It will examine how integrated modelling, cloud-enabled collaboration, operational intelligence, and asset performance insights can help utilities better understand system risk, evaluate adaptation strategies, prioritize investment, and strengthen long-term resilience. Drawing on examples across drainage, network modelling, live operations, and asset management, Autodesk will outline practical principles for moving from fragmented data and reactive decision-making toward connected, evidence-based water management. The session will highlight how a digitally enabled approach can support more sustainable infrastructure, improve preparedness for global change pressures, and help cities and utilities deliver resilient outcomes at scale. <i>Roi Otero</i>
Keynote Plenary	17:15 - 18:00

Wednesday | Programme

Keynote Plenary 09:00 – 09:45	
BUSINESS FORUM ROOM 1	BUSINESS FORUM ROOM 2
9:45 — 10:30 RSE (ROSS-SHIRE ENGINEERING LTD) Modular water treatment – redefining DfMA This forum will explore how DfMA can be redefined to better support modern infrastructure delivery in the water sector. The discussion will focus on shifting from traditional construction approaches toward integrated modular systems that improve efficiency, consistency, scalability, and project speed. It will examine how factory-built and off-site assembled solutions can reduce construction risk, streamline delivery, and enhance operational performance. By reframing DfMA as “Design for Modular Assembly,” the forum aims to promote system-level thinking where treatment processes, structures, and supporting systems are designed as coordinated, repeatable modular solutions rather than individual construction components. <i>Kes Juskowiak, Chris Hart</i>	9:45 — 10:30 EDC CANADA Canada's water innovation ecosystem: from global challenges to deployable solutions Turning water sector challenges into scalable business opportunities, this session will highlight how Canadian expertise is helping address some of the industry's most pressing priorities. Hosted by EDC, the session will feature leading engineering firms, Stantec and WSP, who will share perspectives on the evolving water sector, key areas of investment, and opportunities for collaboration between utilities, engineering firms, and technology providers. The panel discussion will be followed by a Canadian Technology Innovation Showcase featuring innovative solutions in water monitoring, watershed management, infrastructure intelligence, and advanced treatment. Attendees will gain insight into Canadian companies delivering practical, scalable solutions that help improve system performance, enhance resilience, and support the future needs of the water sector, while creating new opportunities for international business partnerships. <i>Speakers from EDC, Stantec and WSP</i>
10:30 — 11:15 XYLEM From solutions to scale at the UN Water Conference: enabling non-revenue water reduction and industrial water reuse for a water-secure future This Business Forum will bring together leaders from government, utilities, industry, and civil society to explore how countries can accelerate progress toward SDG 6 while meeting growing water demand and supporting economic growth. Focusing on two high-impact opportunities, reducing non-revenue water and scaling industrial water reuse, participants will examine why proven solutions remain underutilized and identify the policy, regulatory, financial, and institutional measures needed to drive broader adoption. Speakers will share practical approaches for Member States, including recommendations on measurement and target-setting, financing mechanisms, regulatory frameworks, workforce development, and public-private collaboration models. The discussion will highlight actionable pathways to strengthen water security, enhance resilience, and accelerate the deployment of innovative water technologies through cross-sector partnership. High-level government representatives and key stakeholders will be invited to participate. <i>Diverse speakers</i>	10:30 — 11:15 CAMBI Workshop: advanced anaerobic digestion and net zero delivery This workshop will examine the role of advanced anaerobic digestion (AD) in supporting the water sector's net zero ambitions by 2030. Set against tightening regulatory drivers, including the Industrial Emissions Directive, it will explore the transition from smaller assets to centralised, BAT-aligned hubs. The session will take a balanced view of AD, recognising its contribution to energy offset through biogas, while addressing limitations around fugitive emissions. Discussion will focus on whether current strategies are sufficient, what trade-offs are emerging, and how AD fits within a broader decarbonisation framework. <i>Ester Rus</i>
11:15 — 12:00 ZORA ECOSYSTEMS Unlocking water resources with nature-based solutions Around four billion people experience severe water scarcity globally - a challenge no longer confined to the global south. In England alone, the public water supply faces a shortfall of 5 billion litres per day by 2055. Nature restoration can close that gap, but its potential remains largely unmapped. We've built analytics that change that, enabling rapid assessment of nature-based solution opportunities at catchment scale and quantification of their impacts on water availability and quality. In this forum, we'll demonstrate how and include a live walkthrough of our intelligence platform, Mosaic. <i>Dr Claire Burke, Andrea Gysin</i>	11:15 — 12:00 HACH From directives to deployment: making Europe's water quality vision a reality Europe's water quality ambitions are becoming increasingly demanding, with stricter requirements for wastewater treatment, surface water protection, and drinking water production. This presentation explores how the European Water Framework Directive and related regulations are translated into practical action across the water cycle. Through real-world examples from wastewater treatment, river water monitoring, and drinking water production, attendees will learn how operators and authorities address evolving compliance challenges. The session will also highlight modern analytical technologies and real-time monitoring solutions that enable lower detection limits, more reliable data, and better operational decision-making to protect water resources for future generations. <i>Dennis van Gool, Jamal Hamid</i>
12:15 — 13:00 BUREAU OF WATERWORKS, TOKYO METROPOLITAN GOVERNMENT Initiatives of the Tokyo Waterworks and Sewerage Bureaus for the improvement of water services The Waterworks and Sewerage Bureaus have important lifeline functions that support the lives of 14 million residents in Tokyo, providing a stable supply of safe, pure and high-quality tap water 24 hours a day, 365 days a year, while also ensuring a safe and comfortable living environment and creating a good water cycle. Our technologies which would be our strengths in developing future sustainable water supply and sewerage business have solved many problems revealed in our history. Through sharing our technical and management experience, we hope to contribute to more resilient and sustainable water services worldwide. <i>Kentaro Abe, Takayuki Numata.</i>	12:15 — 13:00 MemBrain S.R.O. Combined pressure and electrically driven membrane processes in industrial wastewater treatment – regeneration of IX effluents The presentation focuses on the treatment of ion-exchange columns effluents (mixed NaOH and HCl effluents) by combined pressure and electric driven membrane processes. The goal is to recover water and IX regeneration chemicals in further utilizable form. The effect of chemical and membrane (NF, RO, electrodialysis, electrodialysis with bipolar membranes) treatment on the water composition will be shown and the achieved concentrations and purities of HCl and NaOH solutions will be discussed. The effectiveness of IX regeneration with recycled materials will be discussed as well. <i>Libor Šeda</i>
13:30 — 14:15 JES + W&E Spotlight of CAS journals: JES + W&E Join us at the IWA WWCE 2026 Business Forum for an exclusive introduction to two leading journals under the Chinese Academy of Sciences: Journal of Environmental Sciences (JES) and Water Environment. JES, indexed in SCI with an impact factor of 5.2, publishes cutting-edge research across all areas of environmental science. Water Environment focuses on applied water quality management and treatment technologies. This session will showcase each journal's scope, publication pathways, and submission process, followed by an open discussion with Q&A. We warmly invite all conference delegates to submit their high-quality manuscripts. <i>Professor Gang Liu</i>	13:30 — 14:15 GRUNDFOS From data overload to decision intelligence Utilities are continuously collecting data, but how do we transform that data into clear visibility, predictive insights, and actionable recommendations that create real value? Join Grundfos at the IWA Business Forum to learn how the latest digital solutions are helping water and wastewater utilities gain greater insight into their assets and networks. Explore real-world applications, emerging technologies, and the future of digital water management. This session will showcase both the solutions delivering value today and the innovations that will shape tomorrow's utility operations. <i>Ulrik Højbjerg, Cedric Macleod, Mike Everest</i>

Wednesday | Programme

BUSINESS FORUM ROOM 1	BUSINESS FORUM ROOM 2
14:15 — 15:00 PENNON / CREWW Partnering with nature – how nature-based solutions make business sense Nature isn't just an environmental asset—it's critical infrastructure that drives smarter, more resilient development. This session reveals how nature-based solutions, from wetlands to green roofs, help decision-makers cut costs, reduce flood risk, accelerate planning approvals, and meet growing regulatory demands. Designed for planners, local authorities, and sustainability leaders, it combines expert insight, real-world case study evidence, and honest discussion on barriers and opportunities. Discover how partnerships can unlock funding, share risk, and deliver multiple returns. If you want growth that is compliant, future-ready, and cost-effective, this is your opportunity to rethink infrastructure by working with nature, not against it. <i>Speaker TBC</i>	14:15 — 15:00 TETRA TECH Future of water already here? This session will explore how the future of water management is already taking shape. It will highlight how the rapid pace of change within data, technology and innovation is transforming how water utilities operate, whilst facing a new set of challenges ahead. A panel of industry experts will examine: • How PFAS and emerging contaminants are reshaping water sector priorities. • How smart networks and intelligent assets are transforming monitoring, forecasting and decision-making. • How alternative water resources can help address growing scarcity and resilience challenges. • How data, AI and technology can enable deeper insights across infrastructure and operations. <i>Kevin Swann, Mariana Gonzales, Tom Swain, Jarret Kinslow, Simon Parsons</i>
15:00 — 15:45 KOHTARI Predicting water risk: moving from reactive response to proactive resilience Climate change is increasing pressure across the world's water systems, making already complex challenges harder to predict and manage. From changing catchment conditions to deteriorating water quality and algal blooms, water companies are dealing with greater complexity and uncertainty. So what changes when we can see risk developing sooner? In this session, we'll explore how AI and machine learning can turn fragmented data into predictive insight. With practical examples, we'll explore how our water intelligence platform can help water companies act sooner, make stronger decisions and build resilience. Join us to find out how water companies can: • Anticipate threats before they escalate • Make faster, stronger decisions • Build greater resilience in an uncertain climate <i>James Sumsion, Amy Raynor, Adrian Goodsell</i>	15:00 — 15:45 STONBURY Breathing new life into existing assets As water companies seek to balance performance, affordability, and net zero ambitions, there has never been a greater need to rethink how we manage ageing infrastructure. In this session, Richard Harrison explores how "build less, build clever" unlocks value from existing infrastructure, revealing how asset re-life solutions are helping deliver sustainable outcomes without defaulting to replacement. From storm tanks and reservoirs to wetlands and outfalls, you'll hear how assets can be restored, reused and reimagined to extend life, cut carbon and maximise investment value. Join us to discover why the future of sustainable infrastructure may already be beneath our feet. <i>Richard Harrison</i>
15:45 — 16:30 VEOLIA Save money & space with wastewater process intensification technologies Wastewater treatment faces mounting pressures from climate change, population growth, and resource scarcity. Process intensification technologies offer innovative solutions by reducing operational costs and physical footprints. Biological intensification technologies are particularly crucial, leveraging microorganisms to enhance treatment efficiency while minimizing energy consumption and chemical usage. These solutions enable faster pollutant removal, improved effluent quality, and lower greenhouse gas emissions—critical for sustainable environmental security. By integrating biological intensification into wastewater infrastructure, municipalities can achieve energy neutrality through biogas recovery and simultaneously enable water reuse for irrigation and industrial applications. This integrated approach strengthens circular economy principles and climate-resilient water treatment systems. <i>Giuseppe Guglielmi</i>	15:45 — 16:30 JACOBS From PFAS investigation to implementation: selecting effective treatment strategies As regulatory scrutiny of PFAS increases, water utilities are moving rapidly from investigation to treatment implementation. This presentation explores how evolving guidance and standards can be translated into practical, deliverable strategies. Drawing on Jacobs' technical studies, pilot trials and project experience, it examines the strengths and limitations of established technologies—including granular activated carbon, ion exchange and membrane systems—alongside emerging destruction-based approaches. Attendees will gain insight into technology selection, operational challenges, residuals management, whole-life costs and lessons learned to support effective PFAS risk reduction and regulatory compliance. <i>Pascale Harper</i>
16:30 — 17:15 	16:30 — 17:15 RSE (ROSS-SHIRE ENGINEERING) Membrane filtration: a resilient solution for future water treatment Ceramic Flat Sheet Ultrafiltration (cUF) provides a climate-resilient, high-quality solution for next-generation water treatment. As utilities face fluctuating feedwater quality, stricter standards, and the need for resource efficiency, cUF offers a strong, flexible barrier to suspended solids, pathogens, and organics—outperforming conventional sand filtration alone. Adaptable to multiple applications, cUF lends itself to a cost- and carbon-efficient approach to retrofitting existing infrastructure. Attendees will learn how cUF can enhance treatment resilience, support high-recovery operation through backwash water reuse, reduce losses, and advance Minimum Liquid Discharge (MLD) strategies, with potential progress toward Zero Liquid Discharge (ZLD). <i>Stephen Sandiland, Patrick Buchta (Nanostone), Dr Martin Kascheck (Cerfiltec), Andrew Dunbar (Scottish Water)</i>
Keynote Plenary	17:15 - 18:00

Thursday | Programme

Keynote Plenary 09:00 - 09:45	
BUSINESS FORUM ROOM 1	BUSINESS FORUM ROOM 2
9:45 — 10:30 TATA CONSULTING SERVICES (TCS) From capital to capability: converting record capital investment into operational capability Water utilities are entering the largest investment cycle in a generation. The challenge is no longer funding, but converting investment into operational capability across ageing, multi-vendor estates while maintaining resilience as critical national infrastructure. Drawing on a long-term OT partnership embedded within a major water utility's capital delivery enterprise, this session argues that standardisation, cyber resilience, and AI should be treated as one transformation agenda, not three. Together, they create trusted operational data that enables a shift from reactive to anticipatory operations across asset health, network performance, regulatory assurance, and control-room decision-making, while navigating governance and procurement tensions. <i>Speakers: Graham Lunt, Martin Highett, Gaurav Chadha, Head of Utilities, UKI, TCS</i>	9:45 — 10:30 CALBA Building to collaborate – addressing the delivery system gap in multi organisation infrastructure programme The conditions that determine whether an enterprise model performs to expectations are established almost entirely downstream of the contract. Designing these conditions consciously is work that rarely gets the attention it deserves. Here we offer a diagnostic framework for locating where any enterprise currently is – both within each participating organisation, and across the boundaries between them – and a set of practical principles for designing the conditions that determine whether it performs. <i>Speaker TBC</i>
10:30 — 11:15 SCOTMAS GROUP LTD. Chlorine dioxide as primary pre-oxidant at Guarapiranga: reducing THMs and improving treatment efficiency at ETA RJCS, Brazil The Guarapiranga reservoir, São Paulo, presents challenging raw water quality characterised by humic substances, elevated ammoniacal nitrogen, and dissolved iron and manganese. Conventional chlorine pre-oxidation generated significant chloramine formation and high trihalomethane (THM) precursor loads, placing treated water in non-compliance for years. This paper presents laboratory and full-scale results from replacing chlorine with chlorine dioxide (ClO₂) as sole pre-oxidant at EEAB Guarapiranga. Results demonstrate a 40% reduction in THM formation, a 32% reduction in total chlorine consumption, and an 18% reduction in coagulant dosage, returning treated water to regulatory compliance. <i>Alistair Cameron</i>	10:30 — 11:15 BADGER Unlocking the operational power of smart meter investment through advanced network management Not just a revolution in billing, AMI Smart metering also opens a treasure trove of operational benefits for water utilities that can be equally transformative. In this insightful session, Matthew Stephenson, Director of Software Product Management at Badger Meter, will explore how utilities can unlock the full operational value of AMI investments by integrating system-wide meter intelligence with advanced network management. Discover how real-time data can transform network visibility, accelerate leak detection, improve pressure compliance, enhance water quality monitoring, support customer engagement, and enable faster emergency response. Through practical examples and proven approaches, attendees will learn how connecting AMI and network operations creates a more resilient, efficient, and customer-focused water utility fit for the future. <i>Matt Stephenson</i>
11:15 — 12:00 ATKINSRÉALIS Beyond compliance: operational excellence in wastewater operations For many wastewater utilities and operating companies, compliance has long been the primary measure of success. However, increasing regulatory pressures, ageing infrastructure, workforce challenges and rising customer expectations require organisations to look beyond compliance and focus on operational excellence. Drawing on operational experience from across the water sector, this session explores the principles that informed the development of the AtkinsRéalis Operational Maturity Assessment (AROMA) framework and the interconnected factors that influence sustained performance. Through practical examples and audience discussion, attendees will consider how improvements in people, assets, data, documentation and safety can strengthen resilience, improve outcomes and create a stronger foundation for achieving and maintaining regulatory compliance. <i>Paul Banfield, Ross Wilson, Erina Brown</i>	11:15 — 12:00 UK PAVILION Passion for the water profession A motivational session to round up and build ongoing momentum for the theme 'Passion for the Water Profession' at future conferences and as part of our business agendas. Build on the theme which will feature in the UK Pavilion and wider exhibition during the congress week. The session will explore the importance of future careers in the industry and skills development to build a workforce for the future (using personal stories and congress highlights to remind people to stay passionate about our profession). <i>Diverse speakers</i>
12:15 — 13:00 M GROUP Big challenges need bigger thinking We bring together the deepest expertise, the broadest capability and the best people to deliver, transform and maintain the infrastructure that supports everyday life today and for the future. We deliver integrated infrastructure and civil engineering solutions across the whole asset lifecycle within the UK Water Sector that deliver sustainable environmental and social improvements. <i>Steve Stanyon</i>	12:15 — 13:00 GRUNDFOS The importance of water treatment in data centre cooling applications With an increase demand in AI technologies, data center construction is seeing an incredible amount of investment across the world. As a large consumer of water and energy for cooling, there is a massive emphasis on the requirement for high efficiency water treatment systems to keep the data centers cool when using ambient air. Rainwater harvesting is also key to minimizing the amount of municipally supplied water used. <i>Alan Pearson, Jim Knight</i>
Closing Ceremony 15:30 - 17:00	



Engineering resilience in every drop

Water is our planet's most precious resource, and we are here to safeguard it. Our aim is to generate optimal outcomes for our clients while helping them consider every person and every drop.



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