

Annex B – SIWW 2021 Innovation to Practice (I2P) Sessions

Innovation to Practice sessions present end-user case studies by industry and utilities on their journey in adopting innovative solutions to solve real water challenges. We have extracted some interesting sessions below. Please also reference the [SIWW website](#) for more sessions.

22 June 2021, Tuesday

Session	Synopsis	Speakers & Panellists
The Journey of Innovation Implementation: Ceramic Membrane Microfiltration for Surface Water Treatment (Co-organised with PWNT)	Membranes for filtration during water treatment have been operating for a few decades, but only recently have ceramic membranes been installed for surface water treatment. This session will feature speakers from PUB, Singapore's Water Agency and Scottish Water who will share their perspective on the journey of implementing these new technologies into their utilities.	• Dr Holly Shorney-Darby, Head, Technology Application and Piloting, PWNT • Puah Aik Num, Chief Specialist (Water Treatment), Technology Department, PUB, Singapore's National Water Agency • Stewart Sutherland, Transitional Risk and Asset Capability Team Leader, Scottish Water
Digital Blueprint for Water Utility Companies – Data Driven Decision Making (Co-organised with Binnies)	Binnies, water and environment services provider and Aarhus Vand, Denmark's leading water utility company, are currently implementing a first of its kind digital blueprint across the water utility's' business. Creating a digital blueprint requires an understanding of the organisation's current digital maturity. The Digital Readiness Level tool can be used by organisations to evaluate their maturity across six key areas.	• Jesper Kjelds, Chief Digital Information Officer, Aarhus Vand • Keith Gardner, Director of Asset Management Consulting, Isle Utilities • Mark Kaney, Director of Asset Management, Binnies - Moderator

25 June 2021, Friday

Session	Synopsis	Speakers & Panellists
Imagine H2O Asia Startups in Action: Case Studies from Singapore, Vietnam & Cambodia (Co-organised with Imagine H2O Asia)	Successful water technology startups don't just sell technology – they must deliver a whole solution that solves an urgent and underserved problem for a customer. This interactive session will feature three practical case studies featuring Imagine H2O Asia startups jointly presenting with their pilot or commercial	• Giridharan Sengaiah, Co-Founder, SmartTerra • William Puyo, General Manager, Khmer Water Supply Holdings • Margarita Luis, Vice President of Applications & Inside Sales, Fluid Technology Solutions • Rodney Chapin, Chief Executive Officer, Ardurra International • Ngoc Cao Minh, Managing Director, Renewable Technology Solutions • Dr Shailesh Kharkwal, Chief Executive Officer and Co-founder, Environsens

	customers in Singapore, Vietnam and Cambodia. These case studies will showcase a diverse set of innovation projects in progress as well as share insights on the ingredients for successful startup collaborations in the water sector.	- Gurdev Singh, Deputy Director, Technology Department, PUB, Singapore's National Water Agency - Nimesh Modak, Director, Imagine H2O Asia – Moderator
Increased Efficiency using Digital Water Solutions for Water Utilities <i>(Co-organised with Netherlands Water Partnership and Kingdom of the Netherlands)</i> <i>*free-to-air content</i>	Water use varies greatly depending on the time of day, location, weather and many other factors. Each morning millions of us take a shower; on hot days we use hosepipes to water our gardens. The challenge is how to predict and meet the demand? These case presentations will provide utility companies with various actionable information.	- Wouter de Hamer, Chair Singapore-Netherlands WaterHouse and Director Business Development APAC for Royal HaskoningDHV - H.E. Magriet Vonno, Ambassador of the Kingdom of the Netherlands to Singapore and Brunei, Embassy of the Kingdom of the Netherlands in Singapore - Michel de Koning, Director Sales and Marketing Aquasuite, Royal HaskoningDHV - Doeke Schippers, Director water production and distribution, Vitens - Leon Verhaegen, Project Manager ICT & Innovation, Waterschapsbedrijf Limburg - Jos-Willem Verhoef, Optiqua - Dr Pang Chee Meng, Chief Engineering and Technology Officer, PUB, Singapore's National Water Agency

30 June 2021, Friday

Session	Synopsis	Speakers & Panellists
Adaptation in South East Asian Cities: Solutions for Heat Stress, Flooding & Planning an Integrated Vision for the Future <i>(Co-organised with Netherlands Water Partnership and Kingdom of the Netherlands)</i> <i>*free-to-air content</i>	This session will bring together resilience expertise in the Netherlands and southeast Asia in a joint exchange of solutions kicked off by a high-level panel of representatives from Singapore and the Netherlands to reflect on the important role of international knowledge exchange and collaborations to help build resilient cities. This session will focus more specifically on climate-resilient solutions to two of the most pressing challenges for the future of climate resilience in cities: flooding and heat stress.	- Mayor Ahmed Aboutaleb, City of Rotterdam - Henk Ovink, Special Envoy for International Water Affairs for the Kingdom of the Netherlands, Ministry of Infrastructure and Water Management - Michael Toh, Directory of Industry and Technology Collaboration, PUB, Singapore's National Water Agency - Matthijs Bouw, Founding principal, Eco Shape – One Architecture - Laura Vonhögen-Peeters, Associate Director Singapore Operations, Deltares - Dr Winston Chow, Associate Professor of Science, Technology and Society, Singapore Management University - Stephanie Erwin, Landscape Architect and Urban Designer, KuiperCompagnons - Kristina Knauf, Associate I Architect, MVRDV - Sander den Blanken, Managing Director, Delta Marine Consultants - Dr Rutger de Graaf, Director, Blue21 - Bianca Nijhof, Managing Director of the Netherlands Water Partnership

2 July 2021, Friday

Session	Synopsis	Speakers & Panellists
Smart Water Safety Technologies for Augmented Capabilities and Performance: Case Studies from Singapore and China (Co-organised with ZWEEC Analytics) *free-to-air content	Learn how leading water authorities, PUB, Singapore's National Water Agency and Yangtze River Monitoring and Scientific Research Centre (Yangtze River Authority), leverage Smart Technologies to augment their operational capabilities and performance in securing water safety. At this interactive session, you will learn about PUB's Integrated Smart Biomonitoring Network: Next-generation Water Security Infrastructure for Comprehensive Water Quality Monitoring, as well as Yangtze River Authority's adoption of AI-based Smart Algae Monitoring technology which is revolutionising traditional algae monitoring approaches.	• Dr Lim Mong Hoo, Chief Specialist (Water Quality), PUB, Singapore's National Water Agency • Dr Sarah Teng, Director of Water Quality Department, PUB, Singapore's National Water Agency • Dr Wang Ying Cai, Chief Engineer, Yangtze River Monitoring and Scientific Research Centre (Yangtze River Authority) • Foo Say Tun, Chief Executive Officer, ZWEEC Analytics – Moderator

Information accurate as at 18 June 2021.