



# SINGAPORE INTERNATIONAL WATER WEEK

ONLINE

18 – 19 November 2020

9:00am – 6:30pm SGT (GMT +8)

## Re-imagining Water Utilities in a Digital World

18 November 2020, Wednesday | 9.15am – 10.45am SGT (GMT +8)

Co-organised with

**Jacobs**

**xylem**  
Let's Solve Water

### About this webinar

The COVID-19 crisis has accelerated the adoption of digital transformation globally, including in the water sector. With the multitude of digital solutions now available in the market, how would water utilities transform themselves? From digital planning and design to construction, operation and maintenance, this webinar will provide a glimpse into how water utilities can leverage digital technologies across the water cycle and delivery chain to achieve energy optimisation, operational efficiency and cost certainty. This webinar will also witness the launch of the “Digitalising Water – Sharing Singapore’s Experience” publication by PUB, Singapore’s National Water Agency and International Water Association.

### Why you should attend

Understand how digital transformation will reframe the water industry

Hear from industry leaders on how digital solutions and tools have been applied to achieve resilience, efficiency and sustainability

Learn about the potential challenges faced when implementing digital solutions and how to overcome them

→ REGISTER NOW

Stay connected with us:



[www.siww.com.sg](http://www.siww.com.sg)



[@siww.com.sg](https://www.facebook.com/siww.com.sg)



[@waterweeksg](https://twitter.com/waterweeksg)



[@siwwlinkedin](https://www.linkedin.com/company/siww/)



## Programme

9.15am	<b>Welcome Remarks by Singapore International Water Week</b> Ryan Yuen, Managing Director, Singapore International Water Week
9.20am	<b>Launch of “Digitalising Water – Sharing Singapore’s Experience” Publication</b> <ul style="list-style-type: none"><li>• Prof Vladan Babovic, Professor, National University of Singapore</li><li>• Harry Seah, Deputy Chief Executive (Operations), PUB, Singapore’s National Water Agency</li></ul>
9.40am	<b>Maintaining and Connecting a Digital Thread through the Entire Asset Lifecycle</b> Raja Kadiyala, Vice President and Senior Technology Fellow, Global Digital Director, Jacobs  Drawing on global case studies, learn how digital artifacts can be generated early on during planning and design to garner value and benefits that span the downstream portions of the water asset lifecycle – from construction, operations to maintenance to better inform the next design iteration.
9.50am	<b>The Turning Point in Digital Transformation</b> Albert H. Cho, Vice President and Chief Strategy and Digital Officer, Xylem  Ignoring the advantages of digitisation is now a risky strategy. By adopting digital technologies to optimise their core systems and processes, utilities can build greater operational and financial resilience and better position themselves to meet the needs of their communities, now and into the future.
10.00am	<b>Panel Discussion</b>  <b>Panelists</b> <ul style="list-style-type: none"><li>• Barbara Wilson, Information Services Officer, Denver Metro Wastewater Reclamation District</li><li>• Dr Ting Lu, Business Practice Leader – Digital Solutions, Clean Water Services</li><li>• Junwei Jin, Deputy Director, Shenzhen Water Group</li><li>• Raja Kadiyala, Vice President and Senior Technology Fellow, Global Digital Director, Jacobs</li><li>• Albert H. Cho, Vice President and Chief Strategy and Digital Officer, Xylem</li></ul> <b>Moderator</b> <ul style="list-style-type: none"><li>• Vinod Singh, Director (Asia and India), Jacobs</li></ul>
10.40am	<b>Closing by Singapore International Water Week</b> Ryan Yuen, Managing Director, Singapore International Water Week

**→ REGISTER NOW**



## Speakers



### HARRY SEAH

Deputy Chief Executive (Operations)  
PUB, Singapore's National Water Agency

Harry Seah, appointed as Deputy Chief Executive (Operations), provides strategic oversight to the entire water systems operations of PUB to ensure total integration and effective management, so that PUB remains operationally efficient to serve the water needs of Singapore. Formerly PUB's Chief Engineering & Technology Officer, and Assistant Chief Executive, he oversaw the agency's R&D projects to achieve its goal of a smart water management system.



### PROF VLADAN BABOVIC

Professor  
National University of Singapore

Vladan is a leading scientist in the field of hydroinformatics where he has been spearheading research in artificial intelligence, machine learning and computer modeling of hydraulics and hydrological phenomena from 1990s. In more recent years, his work on flexibility and real options pertaining to decision-making under deep uncertainties in water- and climate-related domains is gaining wider recognition.

In addition to being a leading researcher and educator, Vladan is a scientist entrepreneur who was instrumental in securing funding and subsequently lead establishment and managed growth of research institutes such as the Singapore Delft Water Alliance (SDWA) and NUSDeltares, for both of which he served as the founding Director. Under his leadership SDWA and NUSDeltares were recognised in March 2014 by prestigious Winsemius Awards.



### RAJA KADIYALA

Vice President and Senior Technology Fellow  
Global Digital Director  
Jacobs

Dr. Kadiyala is a Vice President and Senior Technology Fellow at Jacobs. He is currently serving as the Global Market Director for Digital. In this role, he provides leadership, direction and oversight to services associated with Jacobs' Digital Delivery, Geospatial and Intelligent Systems solution areas. This includes Automated Design, Augmented and Virtual Reality, Geospatial Analytics and Integration, Geodesign, Digital Twins, Process Control Systems, Optimisation, Predictive Analytics, Information Modeling, Smart Metering, Artificial Intelligence, IoT and Smart Sensing, Physical Security, Cybersecurity and Emergency Preparedness solutions for public and private sector clients worldwide.

Over his 27-year career at Jacobs, Dr. Kadiyala has worked to plan and implement information and security system solutions across the globe. He has also focused on realtime sensing, machine learning, digital twins, control and analytics for operational optimisation. Many of his current efforts are centered on the development of advanced visualisation solutions to provide insight into the overwhelming amount of data generated daily.



### ALBERT H. CHO

Vice President and Chief Strategy and Digital Officer  
Xylem

Albert Cho is Vice President and Chief Strategy and Digital Officer at Xylem, a global water technology company with \$4.7B in annual revenue. In this role, he is responsible for the company's newest business, which focuses on intelligent infrastructure diagnostics and decision support services across water, wastewater and energy infrastructure.

Albert serves on the Board of Directors of the U.S. Water Alliance, the editorial advisory board of World Water, and on the U.S. Department of Commerce's Environment Technologies Trade Advisory Committee. He is also an Honorary Research Associate of the Smith School of Enterprise and the Environment at the University of Oxford, where he was a Rhodes Scholar.





**BARBARA WILSON**

Information Services Officer  
Denver Metro Wastewater Reclamation District

Barbara Wilson is the Information Technology (IT) Officer for the Metro Wastewater Reclamation District in Denver, CO. She is responsible for information technology at the District which contains both enterprise business services. She leads current major initiatives in IT planning, wireless connectivity, cybersecurity and IT Service Management.

She previously served as the Senior IT Manager at the City of Fort Worth Water Department (2006-2013) and also held staff position with the City of Fort Worth Information Technology Department from 2003 to 2006.



**DR TING LU**

Business Practice Leader – Digital Solutions  
Clean Water Services

Dr Ting Lu is the Business Practice Leader for Digital Solutions at Clean Water Services in Hillsboro, Oregon. Ting leads and directs innovation of digital solutions, oversees day to day IT implementations and the implementation of data management and IT and OT integration.

She is the Intelligent Water Focus Group Chair for the Water Research Foundation LIFT program and initiated the first international Intelligent Water Challenge to advance the adoption of smart systems into the water sector. Ting is also serving on the Utility Management Committee and the Integrated Planning Subcommittee at WEF.



**JUNWEI JIN**

Deputy Director  
Shenzhen Water Group

Junwei Jin is the Deputy Director of Customer Service Centre of Shenzhen Water Group. With a vision for China's digital water development, he initiated the IWA Water Loss Specialist Group - China Region in 2017, which he co-chairs.

Junwei is responsible for Shenzhen Water Group's integrated smart water project which covers SCADA, water and wastewater network optimisation, water loss management and zoning, water quality monitoring and flooding management.



**VINOD SINGH**

Director (Asia and India)  
Jacobs

Vinod has more than 25 years of experience in providing technical, managerial, project/programme delivery and business leadership in the water, wastewater and city infrastructure sectors in Asia Pacific, ASEAN, India and the Middle East.

As a Project Director, Vinod oversees the ongoing delivery of water digital projects, like the Water Automated Metering Infrastructure (AMI), Digital Transformation road map for use of AMI data, Digital Twin for Wastewater processes for Changi Water Reclamation Plant in Singapore and integrated data driven city planning and design in India, in addition to various complex and FOK (First of Kind) water projects in the Asia Pacific region.

About the Singapore International Water Week



The Singapore International Water Week (SIWW) is the global platform to share and co-create innovative water solutions. The biennial event gathers stakeholders from the global water industry to share best practices, showcase the latest technologies and tap business opportunities. SIWW is part of the strategic programme of the Singapore Government to grow the water industry and develop water technologies.

About Jacobs



At Jacobs, we're challenging today to reinvent tomorrow by solving the world's most critical problems, turning abstract ideas into realities that transform the world for good. With \$13 billion in revenue and a talent force of more than 55,000, we provide a full spectrum of professional services for the government and private sector.

About Xylem



Xylem is a leading global water technology company committed to solving critical water and infrastructure challenges with technological innovation. Our more than 16,000 diverse employees delivered revenue of \$5.25 billion in 2019. We are creating a more sustainable world by enabling our customers to optimise water and resource management, and helping communities in more than 150 countries become water-secure.

Stay connected with us:



[www.siww.com.sg](http://www.siww.com.sg)



[@siww.com.sg](https://www.facebook.com/siww.com.sg)



[@waterweeksg](https://twitter.com/waterweeksg)



[@siwwlinkedln](https://www.linkedin.com/company/siwwlinkedln)

