



**Global Water
Partnership**
Southeast Asia

SWA – Introduction

Presented by Ms Vivien Seong, Deputy Managing Director

Date: Tuesday, 4 November 2025

Platform : Online platform (Zoom)





VISION

To be the regional hub for all water services and technologies

SWA, serves as a platform for networking, collaboration, and knowledge exchange for our member companies.

MISSION

To develop a vibrant and dynamic Singapore Water Industry

Formed in 2004



Facilitate opportunities for collaboration

Provides a platform to build effective networking

Foster the exchange of ideas and knowledge amongst members

Serves an integral linkage to the global water network

Profiling and promoting Singapore

Pivotal regional hub for water technologies and services

SWA Council

2024 - 2026

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ST Engineering Ltd
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HSL Constructor Pte Ltd
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DHI Water & Environment
(S) Pte Ltd



Sharad SOMANI
KPMG



WANG Rong
Nanyang Environment & Water
Research Institute (NEWRI)



Events & Activities



Activities Snapshots 2025

Singapore Business Forum



Industrial Water Series:
Data Centres



SEA Coastal Symposium



54th SWIN



Focus Group
Discussions



Our Vibrant & Collaborative Water & Coastal Protection Ecosystem of > 400 Members from 27 countries

Design & Consultancy



RAMBOLL

System Integrators



Research Developments



Engineering & Construction



中国交建
CHINA COMMUNICATIONS CONSTRUCTION



International Partnerships

We have established several strategic partnerships through Memoranda of Understanding (MoUs) with both local and international embassies and associations. Our latest collaborations include agreements with the **Malaysia Water Association, Philippines Water Works Association, Imagine H2O Asia, and Coca Cola CPS**, strengthening our commitment to fostering innovation and collaboration in the water industry.



Canada



AUSTRALIAN
WATER
ASSOCIATION



Malaysian Water Association



Philippine Water
Works Association



Singapore's Biodata



716 km²
Land Area



5.9 mil.
Population



2,400mm
Annual Rainfall



440mgd
Water Demand



100%
Access to clean
water



100%
Modern
sanitation



30.5ha
Flood-prone
Area



142L → 130L (2030)
Water
Consumption



The Four National Taps

Our Water Story

Over the past 50 years, Singapore has built a robust and diversified supply of water to meet **rising water demand** through our **4 National Taps**:



WATER FROM LOCAL CATCHMENT

Singapore's 15th Reservoir, Marina Reservoir, has 3-in-1 benefits and was officially opened in 2008



IMPORTED WATER

Singapore imports water from Johor, Malaysia



NEWATER

Singapore's 4th NEWater Factory, Changi NEWater Factory 2, commenced operations in 2017.



DESALINATED WATER

Singapore's 5th desalination plant, Jurong Island Desalination Plant, commenced operations in April 2022.



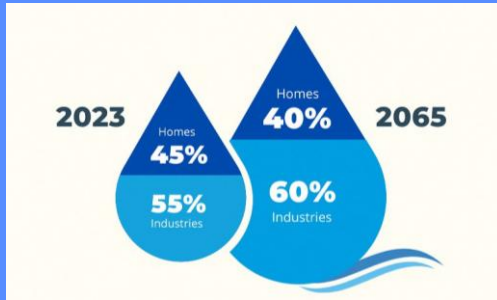
PUB – Singapore's National Water Agency



Singapore's Water Challenges



Rising Water Demand



Reduce Waste and Recover Resources



Technology is our key avenue to address these challenges



Climate Change & Rising Sea Level



Energy Use and Carbon Emission



Singapore was ranked first among the countries at the highest risk of high water stress in 2040 (source: World Resources Institute 2015 Report)

Overcoming Challenges in Water Management for Industries

Major industrial water users in Singapore account for nearly half of the total demand in Singapore (Wafer fab – 15%, Petrochem – 15%, refineries – 14%). Not only do they have huge water demands, but they also require ultrapure water and wastewater treatment & management.

Managing Water Demand



Managing Wastewater



Ultrapure Water



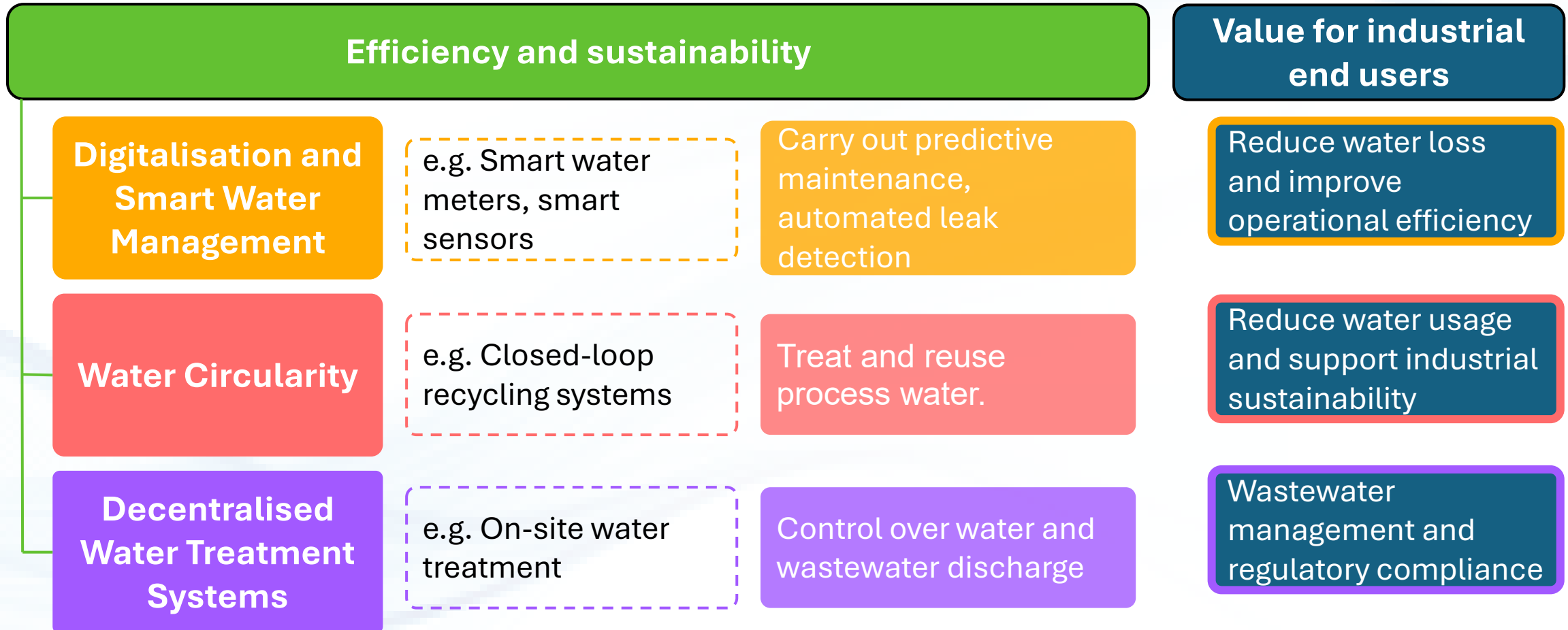
Sustainability



Trends in Water Management – Industrial Users

Today, industries are not only focused on reliability but are increasingly prioritizing **efficiency and sustainability**.

These shifting priorities have given rise to several emerging trends in industrial water management.



Our Vision for the Industry

A vibrant & thriving water industry for Singapore & PUB

A global marketplace for water solutions & services

- Building greater opportunities for our members
 - Capturing new markets
-

A trusted and preferred partner for the global water community

Our 3 Key Focus



Building on Our Successes

- Strategic partner for PUB and water markets
- Municipal water players – complete ecosystem
- Strong core of companies in the industrial water space



Capturing New Opportunities

- Industrial Water Solutions
- Coastal Protection & Flood Resilience
- Transforming & Decarbonising Our Water Systems
 - Digital & Smart Technology
 - Green and Sustainable Technology



Strengthening Our Core

- Our workforce
- Our member companies

Growing Singapore's Water Ecosystem

Our Three Key Strategic Thrusts



**Cluster,
Capability &
Manpower
Development**



**Technology & Innovation
Development**



Internationalisation

Working closely with



Ministry of Sustainability
and the Environment
— SINGAPORE —

**Enterprise
Singapore**

and more...

How will we do it?

Technology & Innovation as our key enabler



Working closely with



WORLD BANK GROUP



ASIAN DEVELOPMENT BANK



and more...

Inaugural SWA Industrial Water Series: Data Centres (21st August 2025)

A platform to showcase SWA member capabilities in industrial water solutions and the goal is to facilitate a cross-industry collaboration and innovation in efficient water management, reuse, and treatment solutions.

Co-organised by:

 **swa** SINGAPORE WATER ASSOCIATION

 **SCS** Singapore Computer Society

SMART & SUSTAINABLE WATER STRATEGIES FOR DATA CENTRES

ENHANCING RESILIENCE AND BUSINESS CONTINUITY

THURS, 21 AUG 2025 | 4 - 7 PM

80 Toh Guan Road East, SgWA - Pierce Auditorium Level 2

As data centres continue to expand to support our digital world, their water consumption has become a critical sustainability challenge and a critical risk to business continuity. This session will explore innovative strategies to optimise water use, mitigate environmental impact, while strengthening operational resilience.

Future collaborations



Thank You

