



REGIONAL PROCESS SESSION DESCRIPTION FORM 2.

10TH WORLD WATER FORUM

This Regional Session Description Form 2 is for the specified program of the session. Please complete this form no later than 10th of March 2024.

**The Regional session description 1 (online form) is separately requested for the regional session coordinators to deliver a concise session outline with the contact info and the logistical requests.*

Regional Session Code and Title:

RP3

Smart Water Management for Resilience and Inclusive Water Services

Date and time : 21 May, 14.50 - 16.20 Denpasar local time

Venue and meeting room: BICC, 1st floor, Jakarta A-B

Regional Session Coordinators (Name, Position, Organization, email, mobile number):

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Sub-Regional Session Description including objectives and expected outcomes (500 words maximum):

Water scarcity is a growing issue. According to several UN reports, it will directly affect nearly 20% of the human population by 2025. By 2040, roughly 1 in 4 children worldwide will be living in areas of extremely high-water stress. This is not limited to developing countries. Climate change will definitely change the water regime. The need for adaptation is unavoidable. The dynamic process of adaptation requires a reliable data and information for decision-making. Thus, the need for smart systems to help the decision-making process needs to be adopted for many countries in their process to adapt with climate change and future uncertainties. Accordingly, Smart Water Management is a critical requirement to ensure resilience and inclusive water services.

Smart water management systems can provide a more resilient and efficient water supply system, reducing costs and improving sustainability. Furthermore, smart water management aims to guide the utilization of water in a manner that drives efficiency, sufficiency, and sustainability by integrating innovative technologies such as sensors, smart water metering, information systems, data acquisition and decision support systems. Achieving water security, therefore, requires innovative ways to address the delivery of a clean and steady supply of water while optimizing the operation, maintenance, and management of water utility companies. Smart water management systems are one of the strongest interventions in achieving water security. In a broader range, smart water management also covers irrigation, flood control, and water allocation for the environment. Water management, in many countries, is under various management bodies/agencies. Data and information are often scattered and unintegrated. It is crucial to manage data and information in a more comprehensive manner. Smart water management must be user oriented. It must be transparent, accessible, and understandable.

This session will discuss country-wide scale best practices of smart water management employed by countries amid their limited resources and growing development and climate change pressures. Singapore, Korea, Japan, Australia, and Netherlands are among the countries that have shown exemplary practices in smart water management in such challenging situations that can be referred by developing countries in

Southeast Asia. It is therefore important to share the stages of developing smart water management that can ensure higher resiliencies for all.

The objectives of this session are:

- a. To examine the critical elements of transforming conventional water management into smart water management through country sharing in implementing Smart Water Management amid challenging situations.
- b. To explore pathways toward systemic change, innovation, and meaningful collaboration for transformational, resilience and sustainable smart water management in Southeast Asian countries.

Outcomes:

Individual innovations - united effort to realize smart water management in Southeast Asia facilitated achieving SDGs.

Concrete solutions:

SEA Smart Water Management Support Facility

Follow up linkages with events:

- GWP SEA - Innovative Solutions for Water Secure World and Sustainable Development Webinar Series
- GWP SEA - Integrated Water Security Open Program
- GWP SEA - SEA Catchment Knowledge Hub (piloted first in Indonesia - in Collaboration with Indonesia Water Coalition)
- KOMEC - Development of the Water-related Decision Support System Utilizing the Digital Technology in the Mekong Region Project
- KOMEC - Mekong-Korea International Forum (Theme: Climate Resilience through Digital Water Management in the Mekong Region)
- KOMEC and BAPPENAS please add if any.

Detailed Regional Session Plan:

ESTIMATED TIMING	ITEM DESCRIPTION / ROLE	SPEAKERS	SPEAKERS STATUS (OK OR TBC)
03''	Opening remarks	Chairman of GWP SEA	Confirmed
07''	Keynote speech	Vice Chair of APWF (Prof. Eduardo Araral, Jr.)	Confirmed
10''	Experience of Korea: K-water's Water Loss Management	K-Water (Dr. Eunher Shin - Principal Researcher)	Confirmed
10''	Experience of Japan Topic: Wastewater management	Mr. Makoto KUDO (Director for Overseas Projects of Water Supply and Sewerage; Ministry of Land, Infrastructure, Transport and Tourism, Japan)	Confirmed
10''	Experience of Malaysia Topic: National Water Balance System -DSS for water resource managers	Dato' Ir Rozman bin Mohamad Director, Division of Water Resources Management and Hydrology Department of Irrigation and Drainage (DID), Malaysia	Confirmed
10''	Experience of Thailand Topic: Automation system for Irrigation Project	Sucharit Koontanakulvong - Executive Director, National Research Council of Thailand (NRCT) - Prof.	Confirmed
10''	Experience of Indonesia Topic: Irrigation Modernization	Dr. Ismail Widadi, S.T., M.Sc. - Director of Irrigation and Wetland - Ministry of Public Works and Housing of Indonesia	Confirmed

10''	Experience of Vietnam (Danang City) Topic: Domestic water management	Dr. Pham Ngoc Bao Deputy Director, Adaptation and Water Area, Institute for Global Environment Strategies (IGES)	Confirmed
15''	Moderated Q&A	KOMEK (Dr. Sangyoung Park - Executive Director)	Confirmed
05''	Summary & Closing	<p>Dr. Yongdeok Cho, Secretary General of Asia Water Council (AWC)</p> <p>Mr. Muhammad Irfan Saleh, Director of Water Resources, BAPPENAS</p> <p>Alternative: Dr. Mochammad Amron, Chairman of GWP Indonesia</p>	<p>Cancelled due to conflict schedule with AWC board meeting.</p> <p><i>To be confirmed</i></p> <p><i>To be confirmed</i></p>