

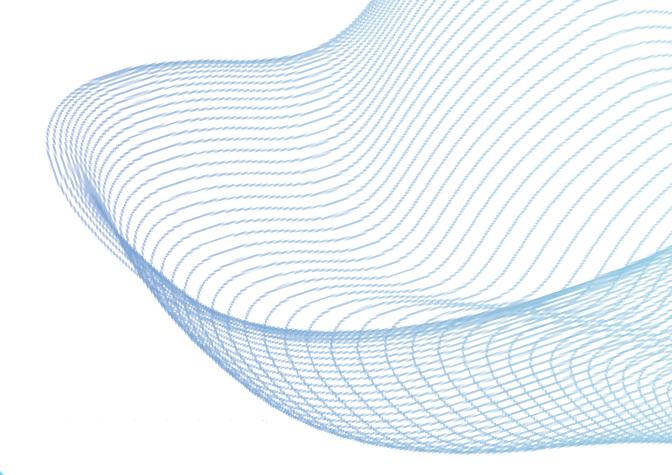




XVII WORLD WATER CONGRESS

CENTRALIZATION OF YOUTH INITIATIVES IN DIGITALIZING AND CIRCULARING **WATER SUSTAINABILITY**

Indonesian Green Action Forum Special Session

















OPENING REMARKS

Indonesian Green Action Forum

















PRESENTATION

Youth Events for 10th World Water Forum

Dr. Neil Andika



igafipb















Identifying Key Water Priorities (Hydrodiplomacy) for Youth, Bringing to the 10th World Water Forum

Ms. Luca Jendrek



igafipb







XVIII WORLD WATER CONGRESS SPECIAL YOUTH SESSION

KEY WATER PRIORITIES (HYDRODIPLOMACY) FOR YOUTH

THAT WE BRING TO THE 10TH WORLD WATER FORUM







Luca Jendrek

European Youth Delegate at World Water Council



"YOUNG PEOPLE ARE STRATEGIC AND INTEGRAL STAKEHOLDERS IN ALL WATER PROCESSES."

1 OTH WORLD WATER FORUM

PROPOSED PRIORITIES

in Governance, Cooperation and Hydro-diplomacy

- Inclusive FairCollaboration
- Transparency and Integrity
- StakeholderCommunication

- Inclusive Transboundary Water Cooperation
- Equitable And Reasonable Utilization
- Cross Sectoral Dialogue and Cooperation

FINALIZED PRIORITIES

in Governance, Cooperation and Hydro-diplomacy

- Enhance international collaboration
- Foster decentralized cooperation
- Strengthen cross-sectoral dialogue and cooperation

- Ensure active stakeholder involvement and public participation
- Develop and enforce transparent and accountable institutions and legal frameworks among all players



WHY WE NEED YOUTH IN HYDRO DIPLOMACY (AS WELL)?









XVIII WORLD WATER CONGRESS SPECIAL YOUTH SESSION

THANK YOU!















Youth in Water Sustainability

Mr. Shawn Seah













Mr. Shawn Seah

PUB, Singapore

UN Environment (SEAYEN)

11 September 2023



"At PUB, <u>sustainability is central</u> to our mission –to ensure a sustainable water supply for Singapore, tame stormwater and protect her coastline from rising sea levels"

Delivering Our Mission Responsibly

PILLAR 1: WATER AND SUSTAINABLE MANAGEMENT

Addresses the importance of resource sustainability as a major ingredient for PUB's mission and PUB's responsibility in managing its environmental impacts

- · Sustainable Water System
- Resource Efficiency and Circularity
- · Climate Change Adaptation

PILLAR 3: STRONG PARTNERSHIPS

Addresses the importance of the shared responsibility of all stakeholders in the community to conserve and protect our water resources and environment

- Customer-centric Water Service
- · Partnership and Engagement

PILLAR 2: CAPABLE AND ENGAGED WORKFORCE

Addresses the importance of our people as the main driving force and cornerstone of PUB's operations

- · Health and Safety
- Competent Workforce
- · Inclusive and Fair Workplace

PILLAR 4: BUSINESS EXCELLENCE

Addresses the importance of business excellence to ensure a PUB that is responsible and trusted by all our stakeholders in delivering our mission

- Trust and Transparency
- Innovation
- · Digitalisation and Cybersecurity
- Financial Sustainability

THE SMART PUB ROADMAP



Transforming PUB into the Smart Utility of the Future

SMART DRAINAGE GRID

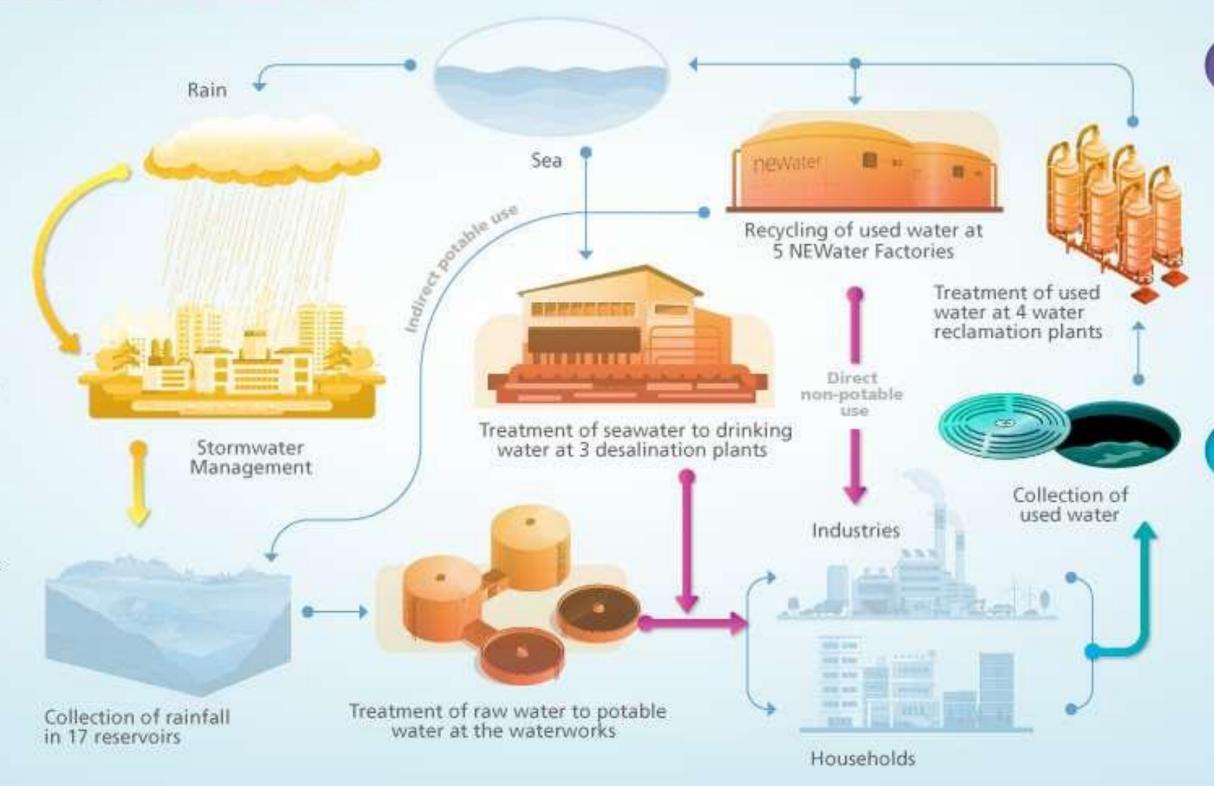
- Hydrometeorological and water quality monitoring
- Strategic planning and maintenance of infrastructure

SMART PLANTS

- Data-driven Decision Support with machine learning
- Autonomous systems to perform manual, high risk jobs
- Diagnostic troubleshooting

SMART WATER GRID

- Extensive monitoring of network pressure, flow and water quality
- · Pre-emptive leak detection
- Predictive load dispatch: Using demand forecasting enabled by pervasive sensing and data analytics



DIGITAL OPERATIONS SUPPORT

- 360° situational awareness and system oversight with improved operations dashboards and mobile connectivity
- Reducing wastage and enhancing resilience with data analytics
- Enhancing productivity by automating manual workflows
- Encouraging collaboration and knowledge sharing through digital platforms

SMART SEWER GRID

- Pre-emptive asset repair and replacement
- Monitoring network and tunnel structural integrity
- Illegal discharge tracing and modelling

A Culture of Innovation and Digital Literacy

PUB'S R&D APPROACH COMMITMENT **Upstream Fundamental Research Pilot Scale Studies Demo Plant Studies** Ensure continuous innovation in our work Partner with tertiary and research PUB may consider a demonstration-Test laboratory-proven concepts institutes in R&D projects with direct in actual field conditions via an scale study with a pilot plant that will be interest in PUB's operations appropriately-sized unit put into operation to test for operational

The 9 technology domains of interests are:



Watershed Management



Water Quality and Security



Digitalisation



Water Treatment. **Desalination And Reuse**



Network Management



Coastal Protection and Climate Change Adaptation



and process challenges, if any

Used Water Treatment



Industrial Water Solutions



Waste Reduction and Resource Recovery















PRESENTATION

Youth Mobilisation by UNESCO for 10th World Water Forum

Dr. Ai Sugiura









igaflcipb.wordpress.com























INTERACTIVE SESSION

















CLOSING







Indonesian Green Action Forum



