

SESSION DESCRIPTION FORM 2.

10TH WORLD WATER FORUM

This Session Description Form 2 is for the specified program of the session. Please complete this form no later than 28th of February 2024.

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

Session Code and Title:

T1B2 - Implementing circular water and resource management for food security and resilient cities (on Wednesday, 22 May 2024, 2:50-4:20 pm, please check on-site as time may vary)

Session Coordinator (Name, Position, Organization, email, mobile number):

Sasha Koo-Oshima
Director, Sustainability Frameworks, LLP, Sashakool@gmail.com

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

<https://drive.google.com/drive/folders/1UxgV3PMhiv2dEZSGDfHzorWqsOd31ELp>

The session will highlight experiences circular economy initiatives and implementation in the framework of water resources management for food security and resilient cities, in the face of water scarcity and climate change.

Policy, financial and technological innovations that support circular paradigms to water management, resource recovery, energy benefits and pollution prevention will be shared. Additionally, examples of strategies for non-conventional water reuse for irrigated agriculture and for resilient cities through rainwater harvesting, urban wastewater and stormwater management, nutrient and energy recovery from wastewater will be featured.

The sessions will also provide examples of realising the potential of enhancing adaptation and resilience to climate change and natural resource management, through implementing circular economy practices in urban and agricultural water management.

Potential issues to address are the following:

- Awareness: Public awareness campaigns and communications on water and waste as resource promoted across sectors of water, food/agriculture, energy and the environment.
- Implementation Strategies: Identifying and prioritizing specific strategies for implementing circular principles for finite resource management. In particular, recognising the need for tailored approaches based on local conditions and available resources, efficiency of management of services.

- Education and Capacity Building: The role of education and capacity building in promoting sustainable water practices to be highlighted, training programs, and knowledge dissemination as critical tools in achieving sustainability goals.

KEY MESSAGES for T1B1 and T1B2 COMBINED ARE THE FOLLOWING :

1. A circular water management model can help ensure water security, food security and environmental sustainability considering the increasing water demand and the changing climate.
2. Besides technologies, supportive governmental policies and regulations, economic financing and capacity building are needed to create a conducive and enabling environment for stakeholders (i.e., farmers, utilities, municipalities, investors, etc.) to adopt circularity, water/waste reuse and also to ensure the safe use of recycled water and biosolids.
3. A circular water management model needs the establishment of a robust water quality and environmental/resource monitoring and adherence to water quality and other related regulations.
4. Public-private partnerships can be instrumental for advancing the reuse of treated wastewater in agrifood systems.

Detailed Session plan :

ESTIMATED TIMING	ITEM DESCRIPTION / ROLE	SPEAKERS	SPEAKERS STATUS (OK OR TBC)
90' total for session			
FAO Moderator Opening 5'	<p>FAO to open the session on Implementing circular water and resource management for food security and resilient cities.</p> <p>Introduces the first 3 panel speakers then opens for Q&A (provides questions to panelists and ask the floor to pose questions). Moderator to prepare questions in advance and keep time check so each speaker is limited to 8-10 min. to allow for floor interactions.</p>	<p>Patricia Mejias-Moreno</p> <p>Patricia.MejiasMoreno@fao.org</p>	OK
Panel Speaker - 8-10'	Introduces Veolia's actions to reduce consumption of water, through "sobriety" and information, preserve water resources through innovations on leakages and	<p>Armelle Perrin-Guinot or Pierre-Yves Pouliquen (Veolia's Multifaceted Performance and</p>	OK

<p>Veolia Private Sector</p>	<p>efficiency, and reuse of treated wastewater (990 million M³ in 2022). Describes how Veolia links/supports public policy. Presents Veolia's solutions to achieve these goals in water reuse, desalination, tools for anticipation, public awareness campaigns - and how to deploy them to help cities and industries adapt to the climate crisis.</p>	<p>Sustainable Development SVP)</p>	
<p>Panel Speaker - 8-10'</p> <p>Netherlands Enterprise and Development Agency</p>	<p>Presents case study from Chennai (India): <i>THE CITY OF 1000 TANKS Water Balance Pilot</i>, a demonstration project showcasing the transformative capacity of Water as Leverage programme, which envisions a water abundant Chennai. Using nature-based solutions, the project will show the repaired broken infrastructure in how it collects rainwater and treats wastewater locally in order to replenish the aquifer; thus ensuring local water security and climate resilience for the Little Flower Convent, a school of 500 visually and hearing-impaired pupils. This replicable and scalable demonstration project investigates the processes and steps needed to achieve the required change and aims to call for the engagement of government departments, resident groups, businesses, and institutions. Thereby, it enables ward, district and city-wide implementation. The project is funded by the Netherlands government and co-financed by the Excellence Program of the Goethe Institut and the Wipro Urban Ecology Small Grants Program. CITY OF 1000 TANKS is Chennai's first collaborative water alliance made up of urban designers, architects, engineers, ecologists, policy researcher, engagement experts, cultural and academic institutions. This consortium was established through WATER AS LEVERAGE FOR RESILIENT CITIES ASIA - an initiative of</p>	<p>Eva Pfannes, Director of Ooze Architects and Urbanists and lead of the 'City of 1000 Tanks' team</p>	<p>OK</p>

	the Netherlands government. The presenter will also discuss the sustainability of the project after its initial demonstration.		
Panel Speaker - 8-10' IME - Institut Méditerranéen de l'Eau	Presents the project of the Observatory of Non-Conventional Water Resources and Renewable Energy for the Mediterranean and Sahel Region. In parallel IME with FAO and AQUAFED will organize a High Level Panel on the Worldwide Observatory based in this Mediterranean experience.	Francois Guerber	OK
Discussion/Q&A by moderator to panelists and the audience - 15'			
Panel Speaker - 8-10' Center Director of HMWSS	Panelist will present Hyderabad Metropolitan Water Supply and Sewerage (HMWSS) Board cases from India in improving water quality and testing for supporting water supply and sanitation.	Dr. VSrinivas Chary	OK
Panel Speaker - 8-10' SIAAP of French Water Partnership	Panelist will introduce SIAAP, greater Paris sanitation authority's responsibility for the collection, transport and treatment of wastewater in Île-de-France, representing 2.5 millions m ³ of wastewater treated each day. SIAAP is a member of the French Water Partnership. SIAAP has a proactive environmental policy to reduce the impact on receiving environments and the environmental footprint of the sanitation activities. The panelist will describe the " <i>Greater Paris Sanitation Agency facing the challenges of efficiency and decarbonation</i> " and to address 6 major industrial and environmental issues, including the GHG emissions reduction and energy and reagent consumption optimisation in the context of climate change. At SIAAP scale, GHG emissions are estimated at 600,000 tons CO ₂ eq/year, 60% direct emissions and 40% indirect. To achieve the objectives of	Marie-Laure Vercambre	OK

	<p>the French Low-Carbon National Strategy (-37% in 2030 and -66% in 2050, in our industrial sector), strategic choices will be made both to reduce indirect emissions (choice of reagents, materials, equipment) and direct (reduction of N₂O emissions from the biological treatment process). Regarding efficiency/frugality, two main axes: the valorization of energy resources through biogas use - SIAAP is the first biogas producer in France - and the optimisation of reagents consumption while maintaining a treatment quality.</p>		
<p>Panel Speaker - 8-10'</p> <p>VITO NV</p>	<p>VITO will present the success stories of the demonstration sites of the Flanders Waterproof project. VITO is the Flemish Research and Technology Institute in Flanders, Belgium. The Flanders WaterProof project is funded by the Flemish Government as part of the Blue Deal, and aims to bring water gains not only for society but also for industry and agriculture. Long droughts and increasingly frequent floods are two sides of the same climate coin. The two success stories are focused on demonstration cases: an industrial business park for the urban setting, and a collaboration with agriculture for fruit production. VITO will discuss how to turn the tide and bring water resilience forward from research, development and technological innovation points of view. As an active member of the EU-worldwide Water4All Partnership, VITO has just been recognized with a Water-Oriented Living Lab as an example of excellence and impact in the water research & innovation domain. Lessons learnt will also be shared from this framework perspective.</p>	Inge Genné	OK

Discussion/Q&A by moderator to panelists and the audience - 15'

Moderator will follow discussion with a 5' wrap up conclusion.