

## WWCH 2021 Tentative Challenge List

### World Water Challenge (WWCH) 2021

Main Topic	Challenge
<b>Water and Health</b>	<b>(Challenge) Scale-up of WASH for Public Health</b> (Keywords) Water, Sanitation, Hygiene (WASH), water-borne diseases, wastewater, water quality, handwashing, sanitation facilities, public health infrastructure,
	<b>(Challenge) Efficient Method for Wastewater Surveillance to Detect Spread of Disease</b> (Keywords) wastewater management, sewage, prevention, early warning system, monitoring wastewater for viral loads, emerging pollutants, contaminated waste, pharmaceuticals, industrial waste, microbial risk, hazardous material, water treatment
<b>Efficient Water Management</b>	<b>(Challenge) Integrated Management of Diversified Water Resources</b> (Key words) water supply in an isolated tropical area, rehabilitation of deteriorated infra, policy for integrated water management, governance for transboundary and shared water resources
	<b>(Challenge) Innovating Financing for Local Water Solutions</b> (Key words) circular economy
<b>Resource Recovery from Water and Wastewater System</b>	<b>(Challenge) Energy Efficiency in Sewage, Waste water, and Sea Water Recycling and Reuse</b> (Key words) energy consumption
	<b>(Challenge) NEXUS for Efficient Utilization of Limited Water Resources and Energy Recovery</b> (Key words) water recycle, water-food-energy nexus, RO(Reverse Osmosis), renewable energy
<b>Water and Natural Disasters</b>	<b>(Challenge) Flood Prevention and Management for Sustainable Water Cycle and Urban Regeneration</b> (Key words) climate change, flood prevention, sustainable management
	<b>(Challenge) The Depletion and Pollution of Water Caused by Climate Change</b> (Key words) climate change, drought management, water shortage
<b>Smart Water Technologies</b>	<b>(Challenge) ICBM, ICT based Water Management</b> (Key words) water management, urban regeneration, intelligent public sewage treatment facilities, big data utilization, internet of things, IoT water management
	<b>(Challenge) 'Smart' Solutions for Water Management : Definition and Case of 'Smart Solutions' by Region, Sector, and Target</b> (Key words) simple technologies to save water in irrigation, innovative management to prevent flood or drought
<b>Ecosystem and Water</b>	<b>(Challenge): Nature-based Solutions for Ecological Recovery and Reinstatement of Natural Process of Rivers</b> (Key words) green infra, environmental flow, river restoration, ecosystem service
	<b>(Challenge) Ecological Urban Water Cycle in Adaptation of Climate Change</b> (Key words) utilizing LID and GI, resilience cities, ecological flow