

Session :Using Information Tools on Multifunctional Nature-Based Solutions to Achieve SDGs

Multifunctional Wetlands as Nature Based Solutions

Nidhi Nagabhatla

United Nations University (INWEH)

26 August, 2018 Stockholm World Water Week FH 307



UNITED NATIONS
UNIVERSITY

UNU-INWEH

Institute for Water,
Environment and Health

WATER SECURITY

Water security is defined as the **capacity** of a population to safeguard sustainable access to adequate **quantities** of acceptable **quality** water for sustaining livelihoods, human well-being, and socio-economic development, for ensuring protection against water-borne **pollution** and water-related **disasters**, and for preserving **ecosystems** in a climate of **peace** and **political stability**. (UN-Water, 2013)

<http://inweh.unu.edu/water-security-and-nexus/>

What is Water Security?

"The capacity of a population to safeguard sustainable access to adequate quantities of acceptable quality water for sustaining livelihoods, human well-being, and socio-economic development, for ensuring protection against water-borne pollution and water-related disasters, and for preserving ecosystems in a climate of peace and political stability."

Working definition, UN-Water, 2013



Water is central to achieving a larger sense of security, sustainability, development and human well-being. UN-water supports the inclusion of water security in the post-2015 development agenda as part of the Sustainable Development Goals.



Achieving water security requires collaboration across sectors, communities, disciplines and political borders, to reduce the risk of potential conflicts over water resources, between sectors and between water users or states.



UNITED NATIONS
UNIVERSITY

UNU-INWEH

Institute for Water,
Environment and Health

Nidhi Nagabhatla
Christopher D. Metcalfe
Editors

Multifunctional Wetlands

Pollution Abatement and Other Ecological Services from Natural and Constructed Wetlands

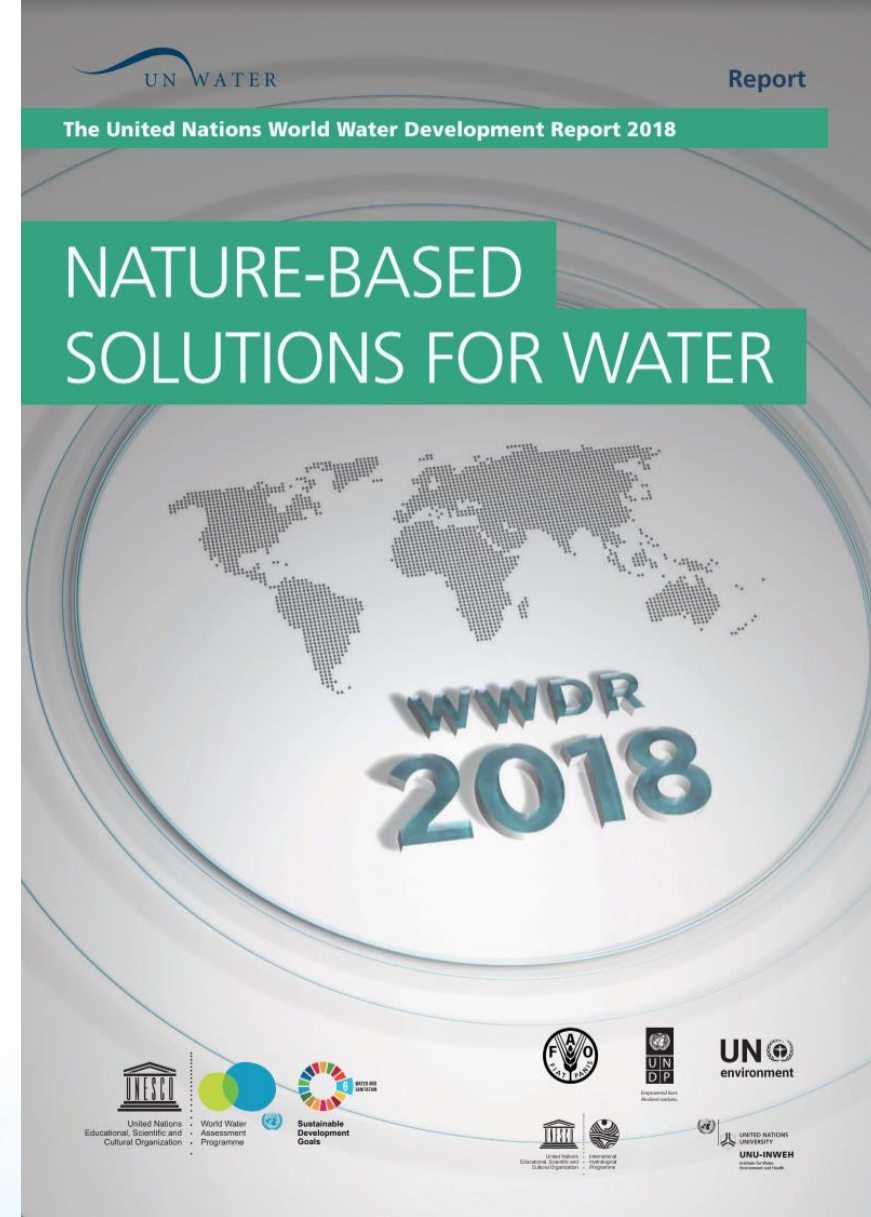


UNITED NATIONS UNIVERSITY
UNU-INWEH
Institute for Water, Environment and Health

 Springer

GLOBAL OUTLOOK on NBS

Nature-based solutions (NBS) offers innovative thinking to move beyond business-as-usual towards addressing variety of water challenges and delivering additional ecological and socio-economic benefits-covering many aspects of sustainable development.



NATURE-BASED SOLUTIONS FOR WATER



WWDR
2018

United Nations Educational, Scientific and Cultural Organization
World Water Assessment Programme
Sustainable Development Goals
UN environment
United Nations University
UNU-INWEH

NATURE BASED SOLUTIONS and URBAN WATER SECURITY

Nature-based Solutions

- Protect, sustainably manage and restore natural ecosystems in urban areas
- Address societal and climate challenges while designing interventions that ensures human well-being and biodiversity benefits

SDG Goals and Targets (2030)

Goal 6 (Clean Water and Sanitation)
Goal 11 (Sustainable Cities and Communities)
Goal 13 (Climate Action)
Goal 15 (Life on Land)
and other targets that directly or indirectly link to urban and forested landscapes

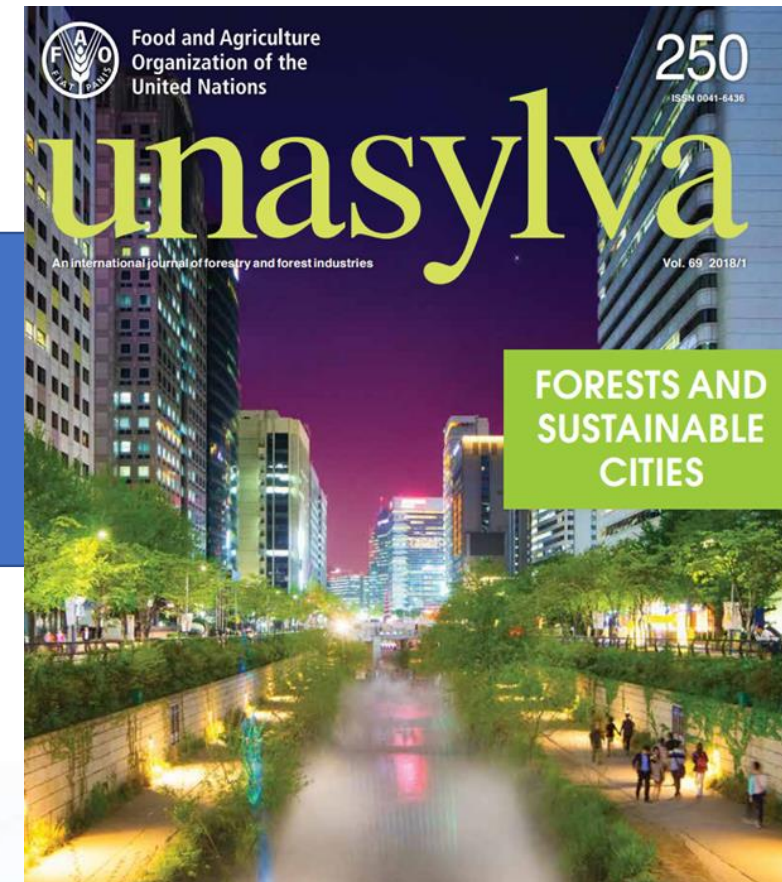
Urban Water Security

The New Urban Agenda (2025)

- Outlines pathway for Sustainable Cities and Human Settlements
- Resilient cities - urban governance and planning
- Urban water management

The Sendai Framework (2015-2030)

- Urban infrastructure and urban planning is designed to reduce the impact of natural disaster
- Developing strategies that reduce loss to economic, physical and environmental assets of a country and communities



Global obligations that may contribute to respond to adopting the NBS thinking to address Urban Water Security



UNITED NATIONS
UNIVERSITY

UNU-INWEH

Institute for Water,
Environment and Health

KERALA FLOODS AUGUST 2018



> 350 people dead

Close to 1 million people displaced

Asset loss estimated at 1.5 billion USD

<https://www.cbsnews.com/news/kerala-historic-floods-india-rescue-efforts-continue-hundreds-killed-2018-08-19/>



UNITED NATIONS
UNIVERSITY

UNU-INWEH

Institute for Water,
Environment and Health