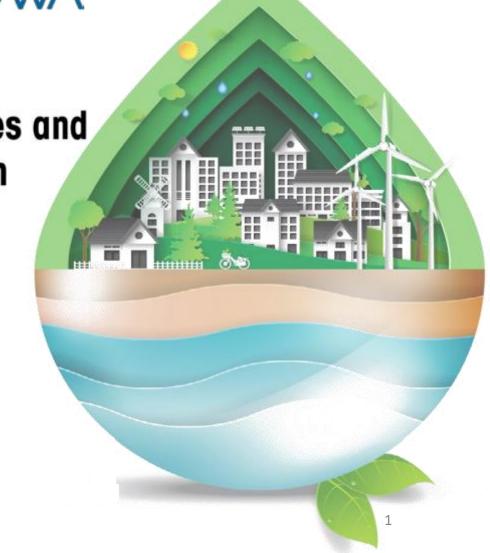
#### **CSE - SWW Webinar Series**

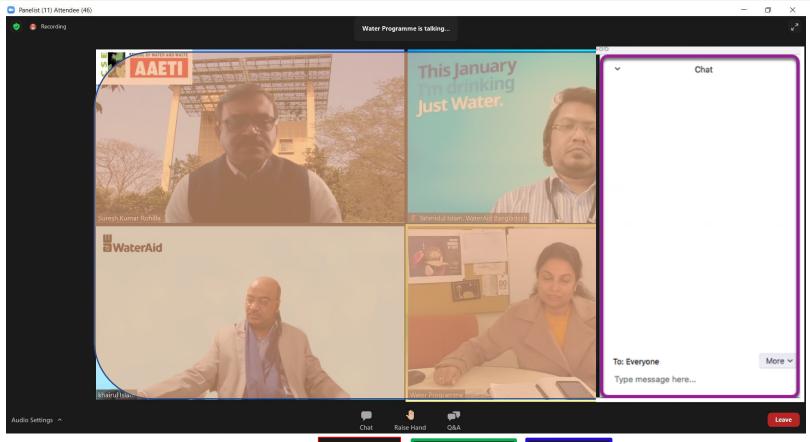


Sustainable Urban Water Management – Challenges and Opportunities in mainstreaming Climate Adaptation

**DATE: 5TH MARCH, 2021 I TIME: 5:00 - 6:15 PM (IST)** 

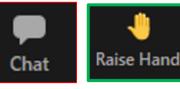


#### Housekeeping rules



- 4. Request to please keep your mic muted unless speaking
- **%**
- 5. Incase of any emergency, my colleague Mr. Dhruv Pasricha will take over the webinar.
- 6. Allocated time for each speaker is **20 mins** and discussants is **5-7 mins**

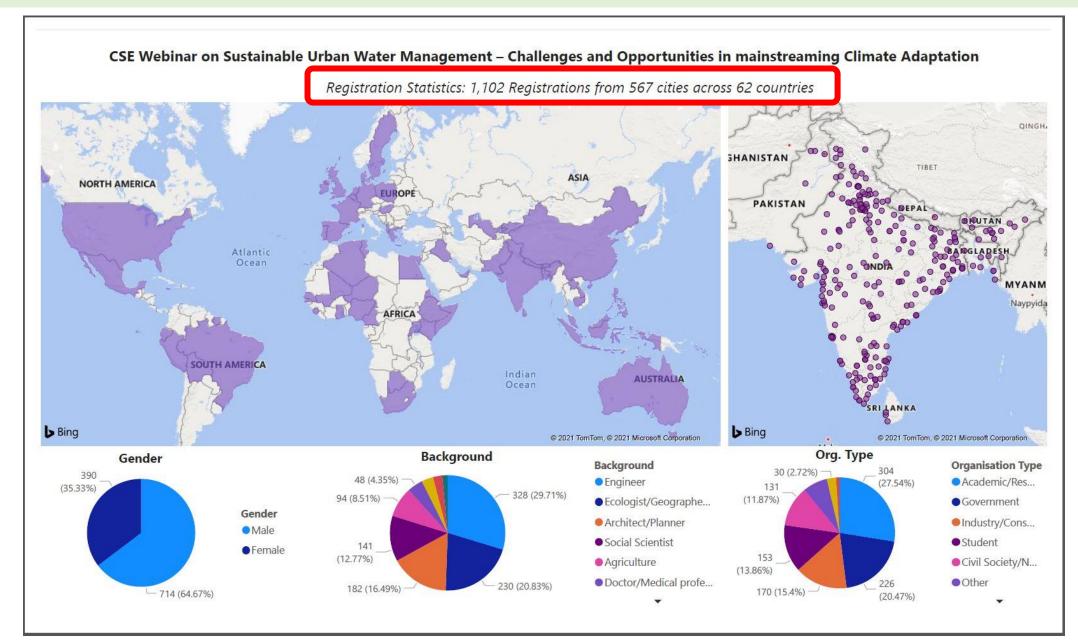
1. Watch the chat window where we will post biography, links to resources and seek your input



2. Raise your hand if you want to ask something or in case if your want to share something.

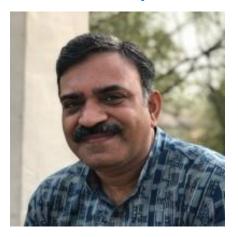
3. Submit your questions to the speakers in the Q&A window instead of chat box.

### Registration Statistics



### Speakers Profile

#### **MODERATOR/ ANCHOR**



Dr Suresh Kumar Rohilla Senior Director possess over 23 years of work experience, leads the water programme at Centre for Science and Environment, New Delhi.

#### **SPEAKERS**



Dr. John H. Matthews is the Executive Director and co-founder of Alliance for Global Water Adaptation (AGWA).



Dr. Ad Jeuken is working as a climate change adaptation expert at Deltares for 13 years and has worked for various international organizations

#### **DISCUSSANTS**



Prof. Ishrat Islam
works with the
Department of Urban
and Regional Planning,
Bangladesh University
of Engineering and
Technology, Dhaka



**Dr. John Ngoni Zvimba** (formerly with Mintek and CSIR) is currently with the **South African Water Research Commission** as Research Manager.

# About CSE School of Water and Waste & Context Setting for the webinar

Suresh Kumar Rohilla, Senior Director CSE

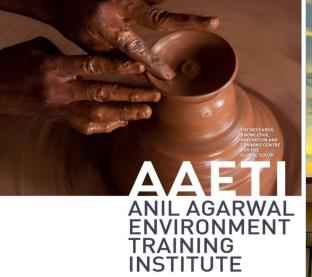
Academic Director, School of Water & Waste







**School of Water and Waste** 



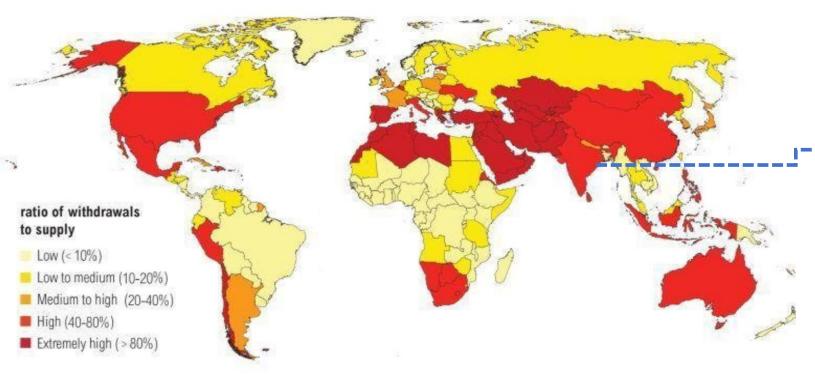


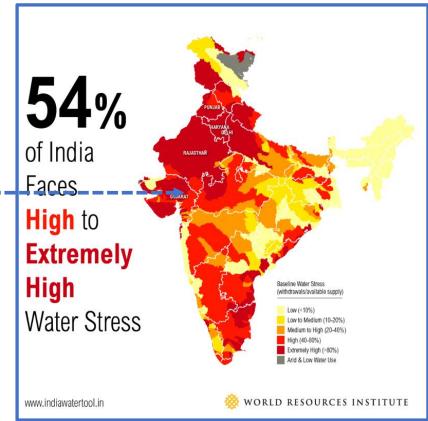


A teaching - learning and innovation centre that is designed to find appropriate and affordable solutions for key problems of India and the global south.

## **Global Water Challenges**

#### Water Stress by Country: 2040





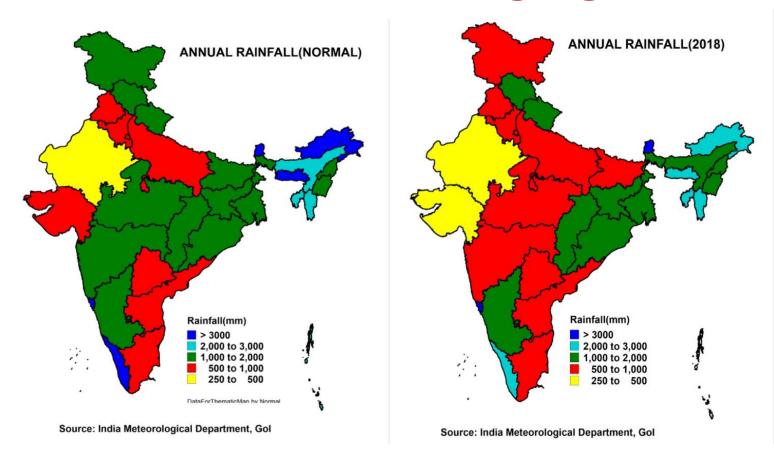
NOTE: Projections are based on a business-as-usual scenario using SSP2 and RCP8.5.

For more: ow.ly/RiWop



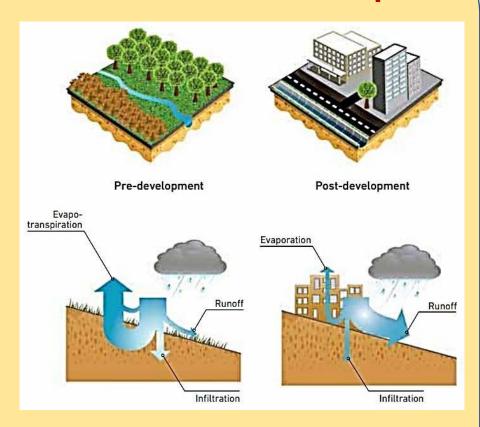
- 3 Indian cities greater then 10 million,
   53 cities more than 1 million
- 377 million live in about 8000 urban centres.

## Diverse & Changing Rainfall: India



Increasing intensities and decreasing number of days it rains...

#### **Pre & Post Urban Development:**



**Change in Urban Water Balance** 

#### **Co-existence of Water Shortage & Abundance :**





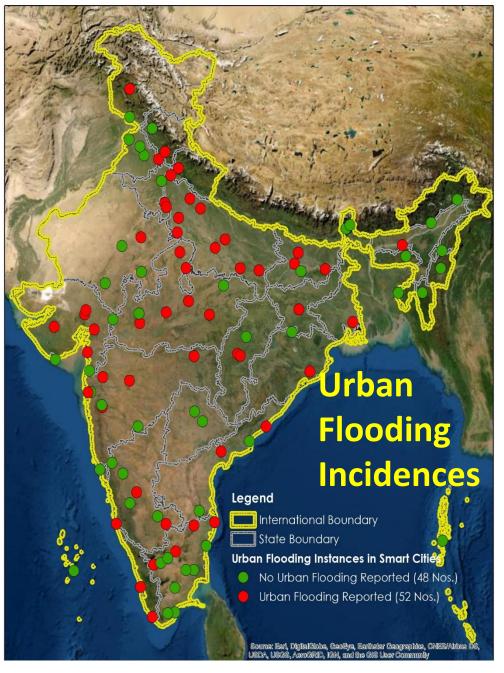
Water Scenario





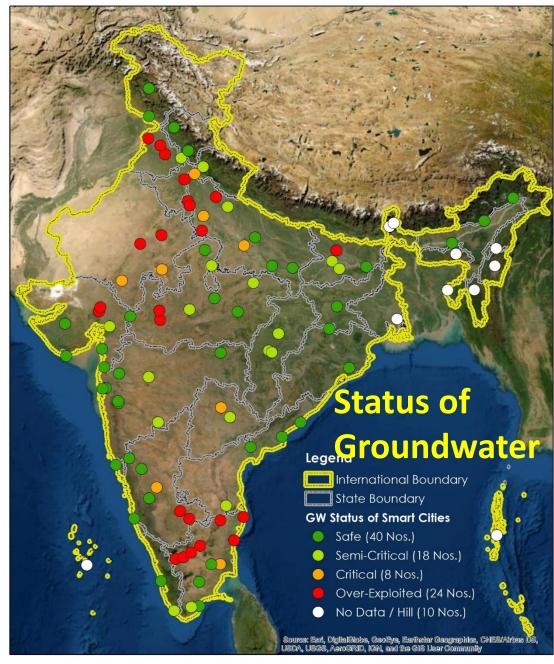
Drainage Scenario

#### Urban Flooding Incidences & Status of Groundwater

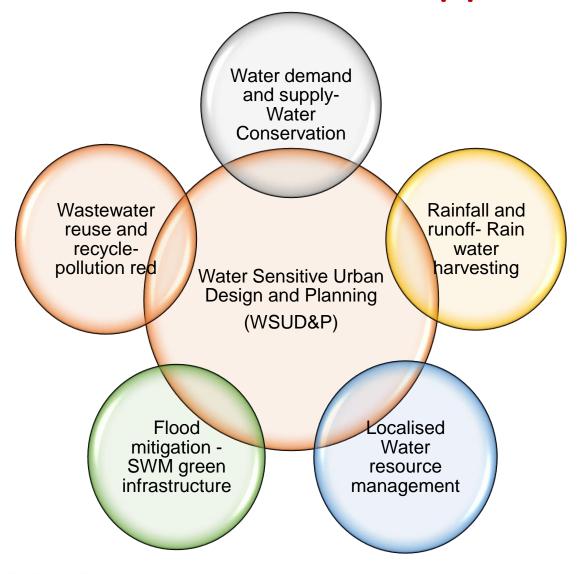


Urban Water
Management
in Smart
Cities





## Water Sensitive Cities Approach



- Protecting local waterbodies
   (lakes, ponds and wetlands)
   for supplementary water sources
- Storm-water management at public places, including open areas in cities
- Increasing water-conservation approaches at various scales (buildings/campus).

On-site water conservation with rainwater harvesting (RWH) is important to reduce water scarcity incl. use of treated wastewater

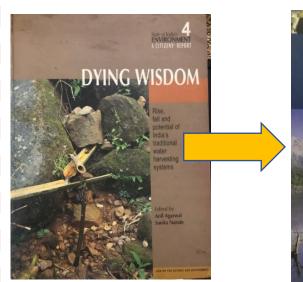
#### Today's Sustainable Water Management in Urban India – Agenda

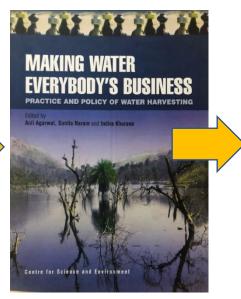
#### Challenge of innovative policy and practice

Challenge of scale -- implement change at the scale of the transition needed

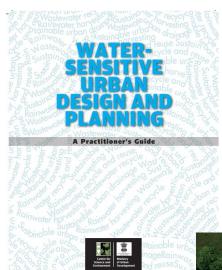
Challenge of capacity – need multipliers in society to implement changes, think and act differently

#### **Building Urban Water Resilience - Way forward**



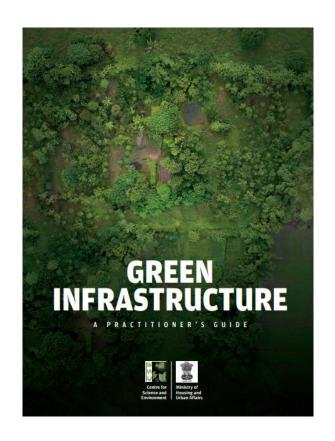


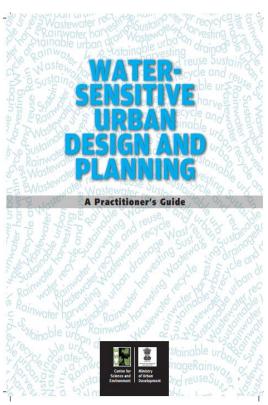






#### Building a Community of Practice for Mainstreaming Sustainable Urban Water Management





https://youtu.be/xjCAyKY6fJg https://youtu.be/NHTUC-Xs3uw CSE pushing to get different approach in water-waste management - Decentralized, cost-effective technologies

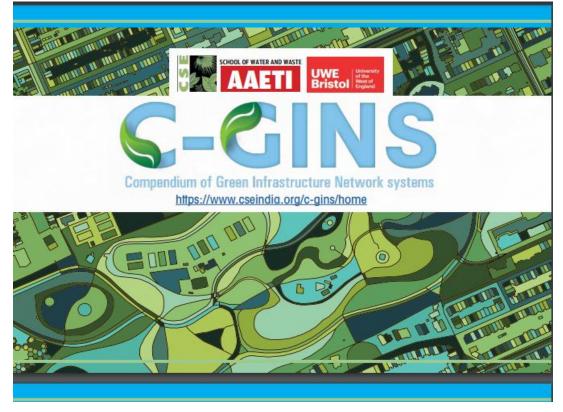
Need capacity in society – training of real users and implementers

Need strategies to experiment / practice and scale-up

#### **Recent Research Reports:**

#### Mainstreaming Water sensitive Urban Design (WSUDP) in India in Policy & Practice





**CSE Publication July & Nov. 2020** 

Web compendium

**Launched in January 2021** 

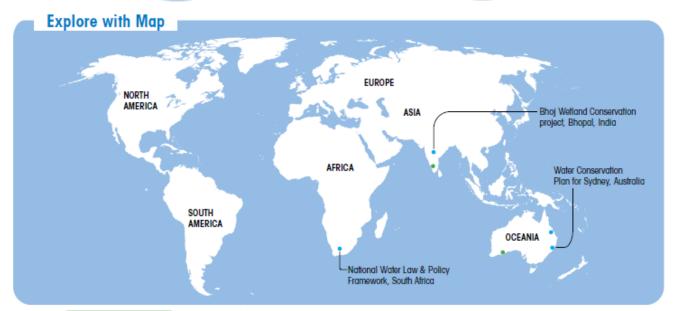


#### C-GINS: Compendium of Green Infrastructure Networks

73
Case Studies

36
Global
Case Studies

37
Indian
Case Studies



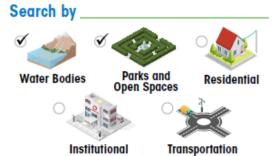


















## Thank you