

# Brainstorming Meeting for Water Governance Hub (WGH)

## NIUA'S WATER MANAGEMENT PORTFOLIO

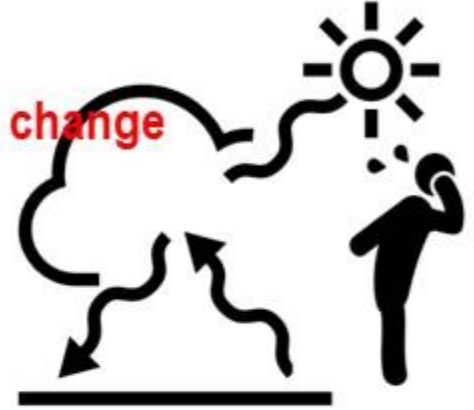
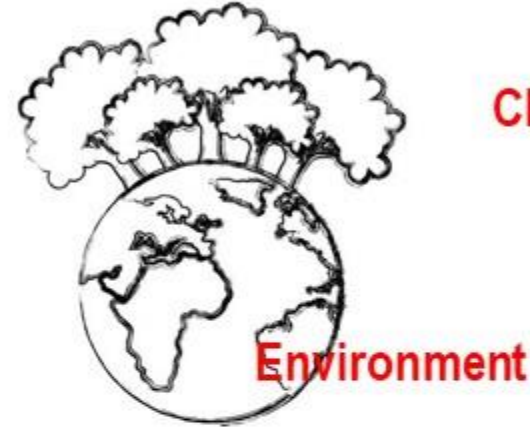
**Victor R. Shinde**, PhD  
Sector Coordinator: Water and Environment  
National Institute of Urban Affairs ([www.niua.org](http://www.niua.org))  
New Delhi  
[vshinde@niua.org](mailto:vshinde@niua.org)



**National Institute of Urban Affairs**

# NIUA's Vision

*Promote Integrated Solutions for Urban India*



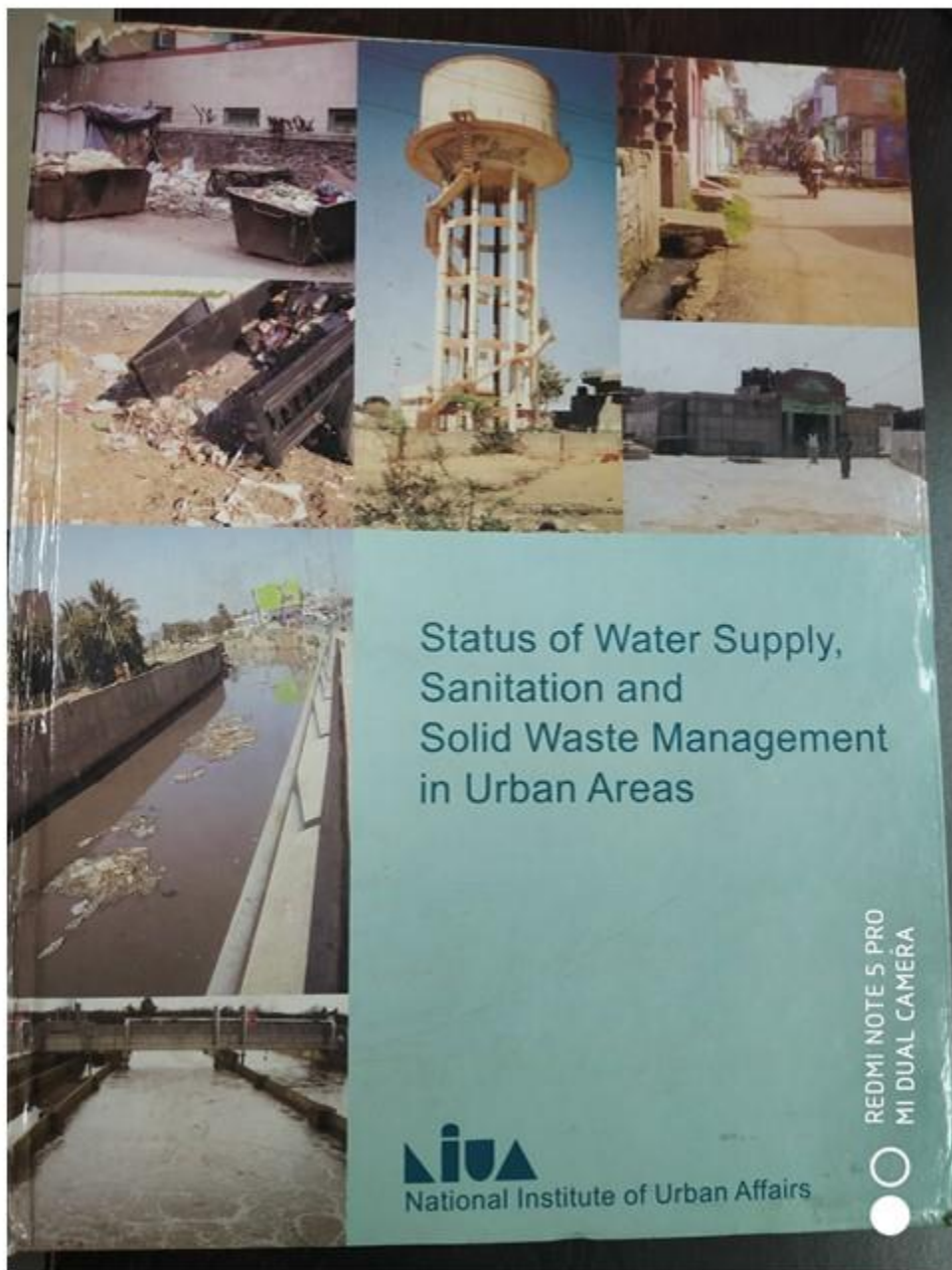
1980s

1990s

2000s

2010s

# NIUA's Foray into Water Management



**Project Title:** Status of water supply, sanitation and solid waste management in urban areas

**Duration:** 1999–2004

**Resource Partners:** MoUD and CPHEEO

**Target Cities:** 300 cities across India

## **Key achievements:**

- One of the earlier pan India attempts to **quantify the status quo** of the water supply and sanitation situation.
- The assessment provided **inputs to estimate investments** required for providing full coverage

# NIUA's Foray into Water Management

PEARL

Peer Experience and Reflective Learning

COMPENDIUM OF GLOBAL GOOD PRACTICES

## Urban Water Supply



INTEGRATED  
WATER  
MANAGEMENT  
POLICY

WATER UTILITY  
REFORMS

LOSS PREVENTION  
AND LEAKAGE  
CONTROL

PARTNERSHIPS  
FOR WATER

WATER FOR  
THE POOR

# NIUA's Foray into Water Management

**PEARL**

Peer Experience and Reflective Learning

COMPENDIUM OF GOOD PRACTICES

## Urban Water Supply and Sanitation in Indian Cities



GOVERNANCE AND  
INSTITUTIONAL  
STRENGTHENING

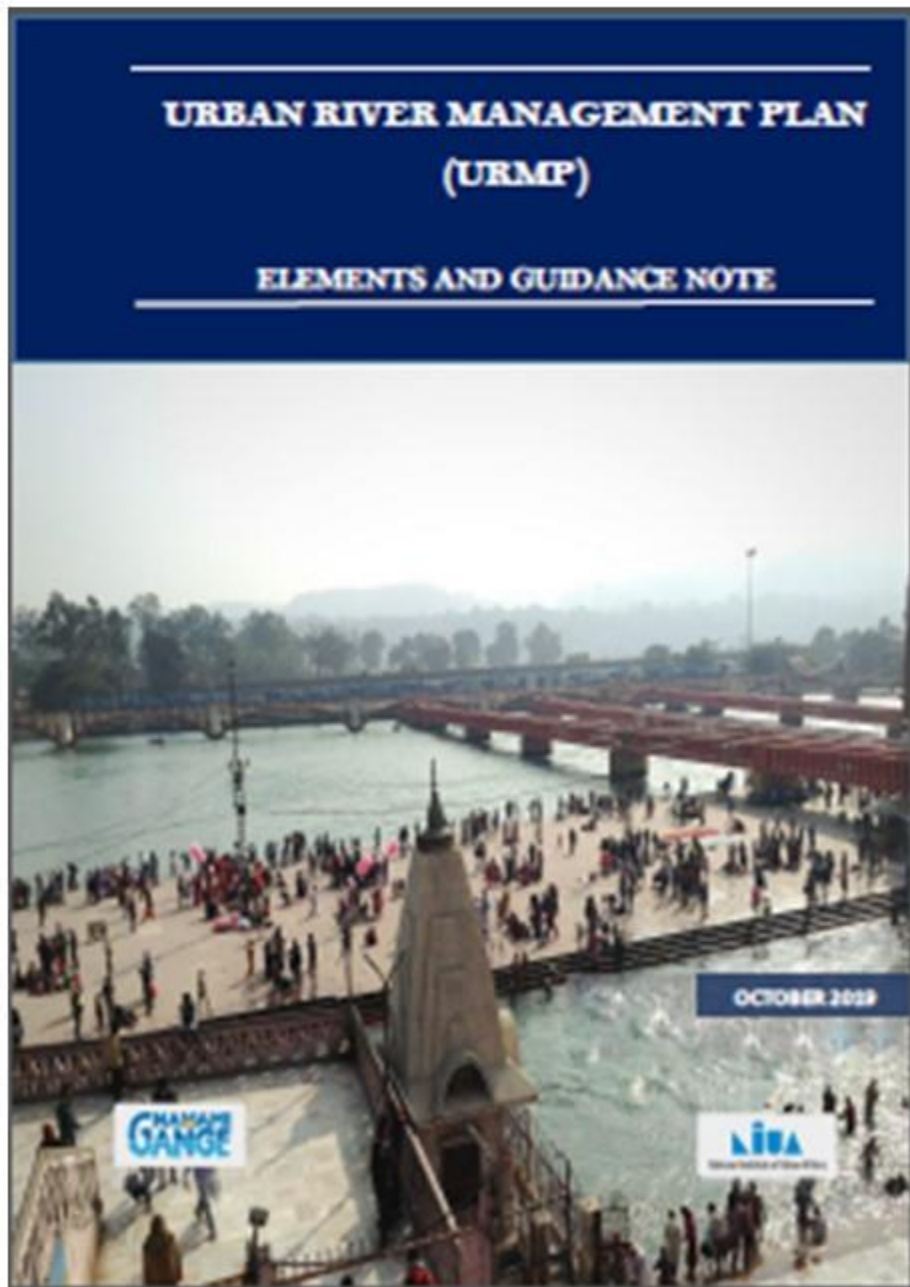
INFORMATION  
AND EFFICIENCY  
IMPROVEMENT

ENVIRONMENT  
SUSTAINABILITY AND  
TECHNOLOGY USE

CITIZEN PARTICIPATION  
AND CUSTOMER  
SERVICE

FINANCIAL  
SUSTAINABILITY

## NIUA's Foray into Water Management



**Project Title:** Addressing the urban drivers of river health in the Ganga River Basin

**Duration:** 2019–2021

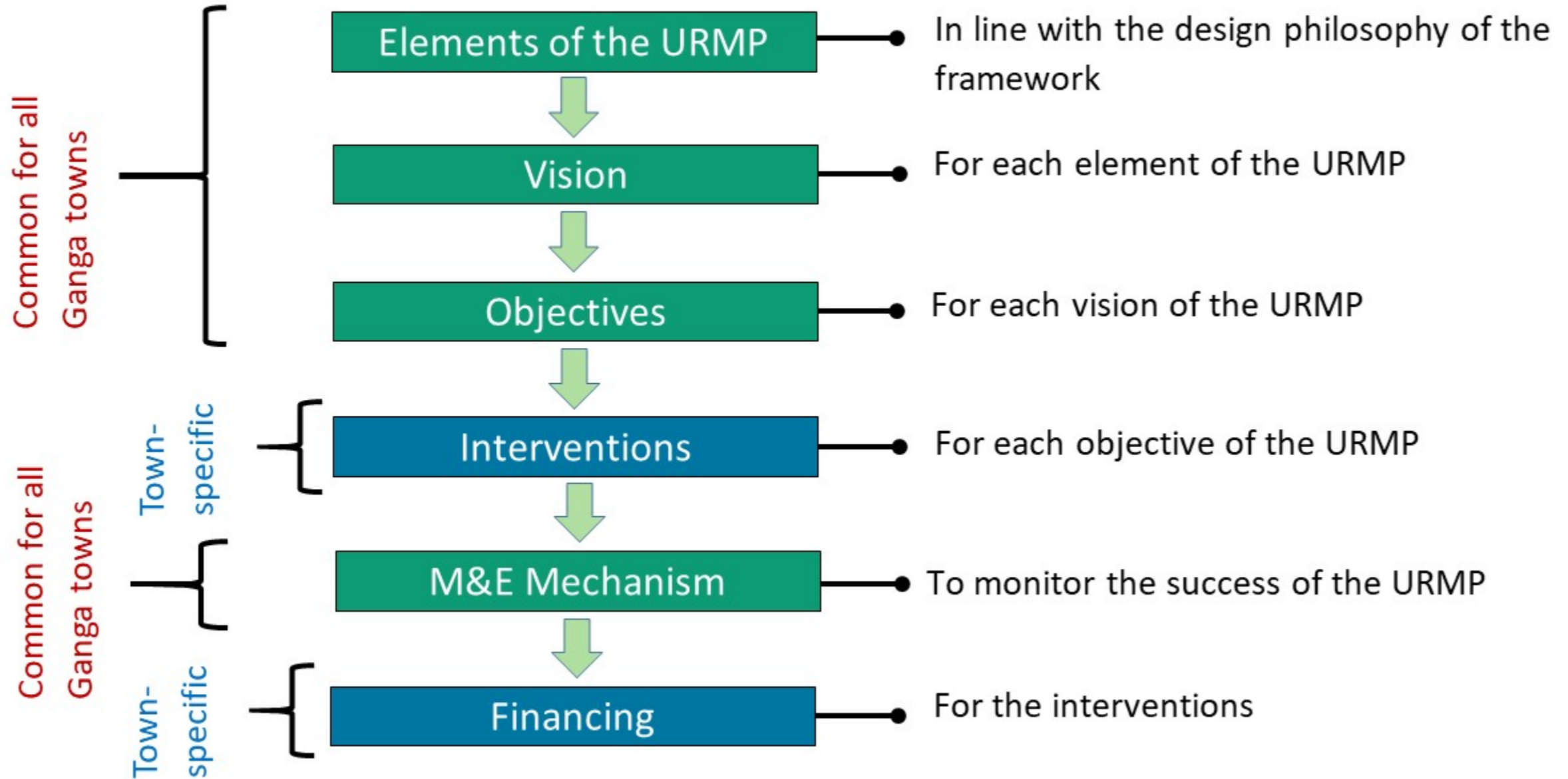
**Resource Partners:** NMCG, Ministry of Jal Shakti

**Target Cities:** 97 Ganga towns

**Key achievements:**

- Developed first of its kind **Urban River Management Plan Framework (URMP)**
- Developed a strategic document to help cities **mainstream river thinking into their Master Plans**

# NIUA's Foray into Water Management



## Overview of the URMP Framework

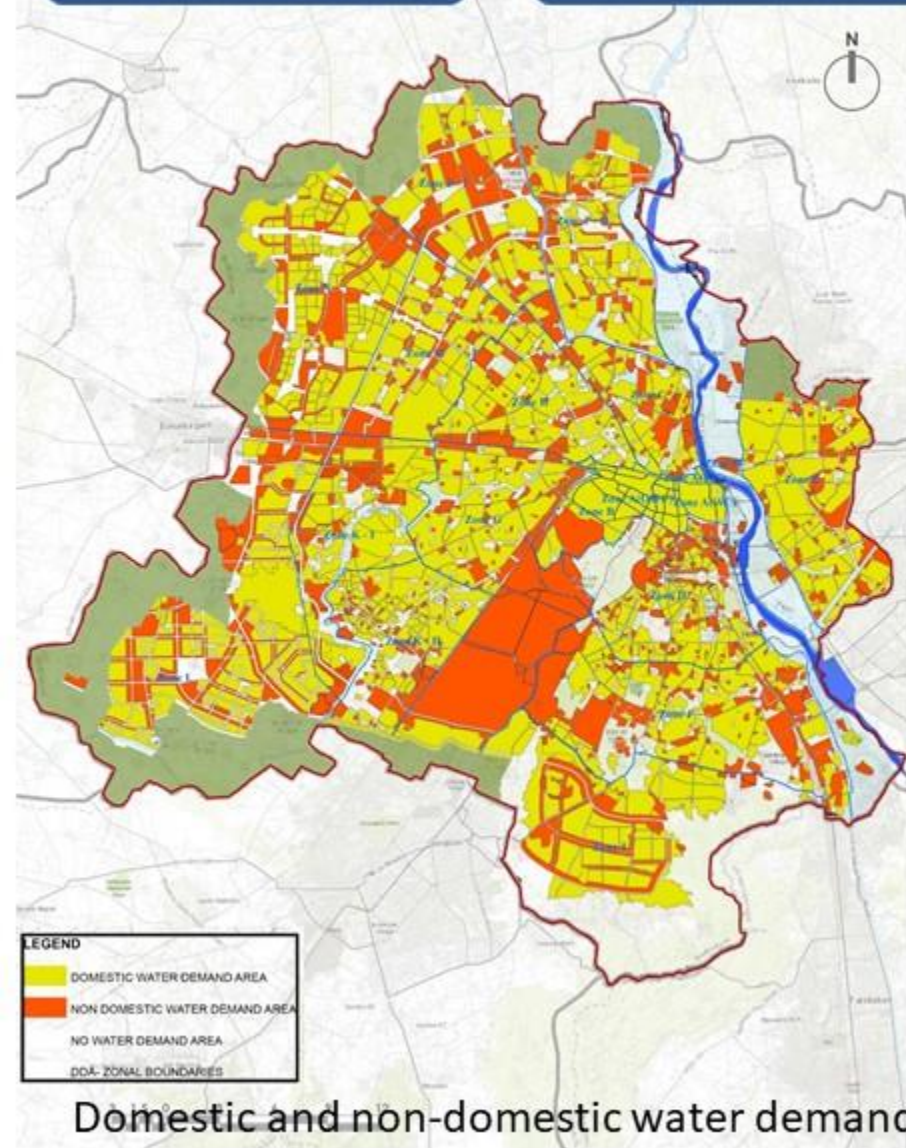
# NIUA's Foray into Water Management

Water supply

Water environment

Water use efficiency

Water-related disasters



**Project Title:** Master Plan for Delhi 2041

**Duration:** 2018–2021

**Resource Partners:** Delhi Development Authority

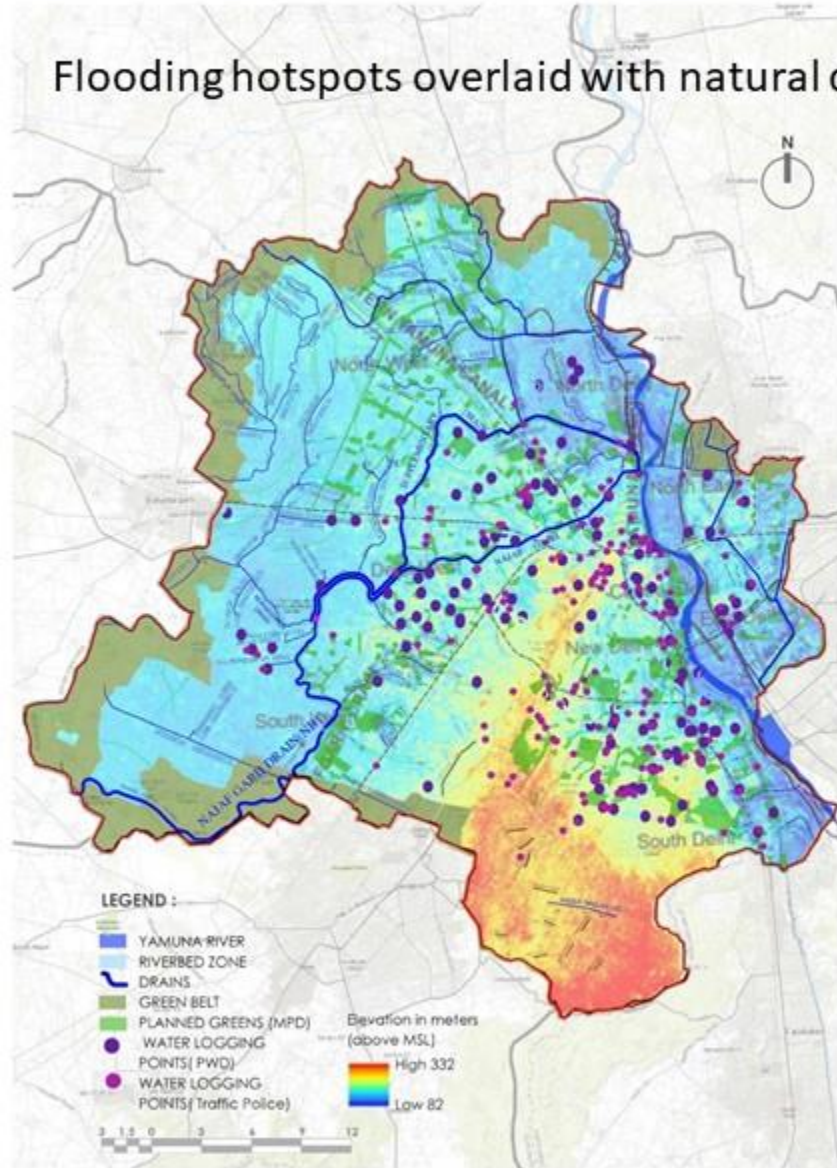
**Key achievements:**

- Conducted an **exhaustive baseline** of the water and waste sectors, involving 15+ government agencies and other stakeholders
- Using **water as a driving force** for deciding on the extent of development

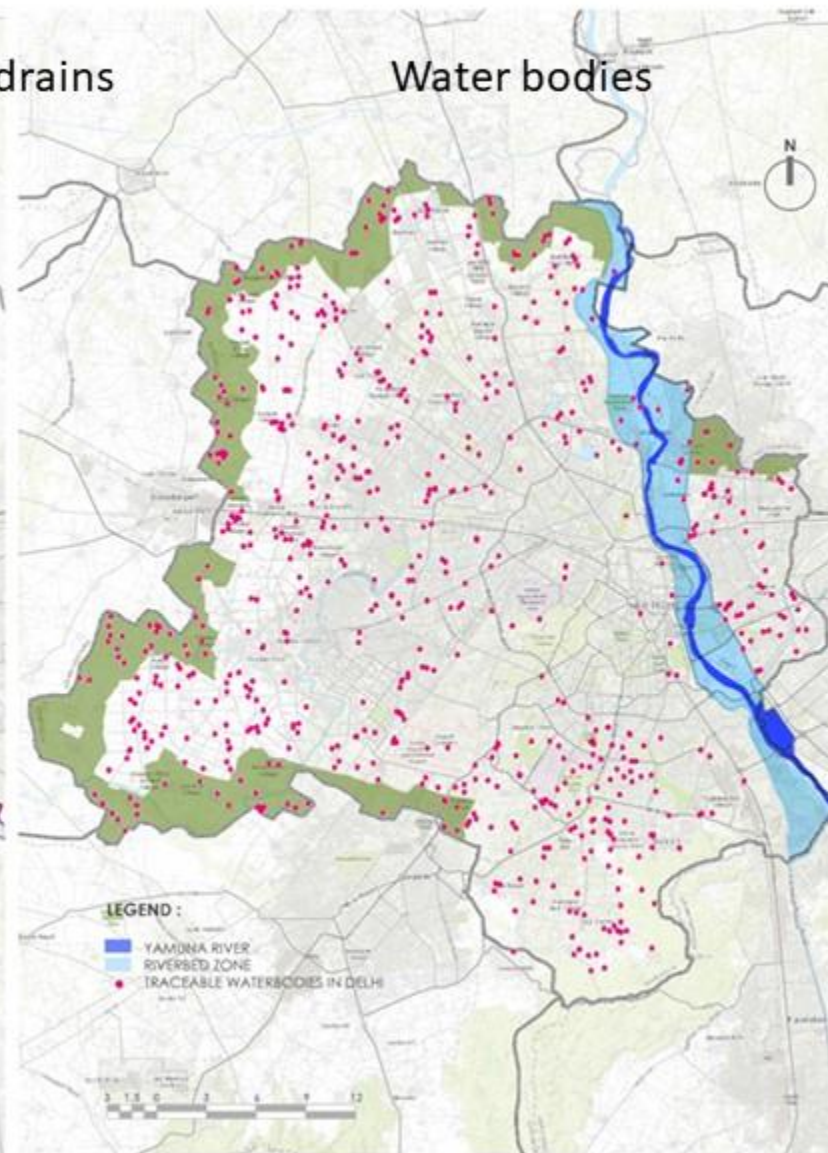


# NIUA's Foray into Water Management

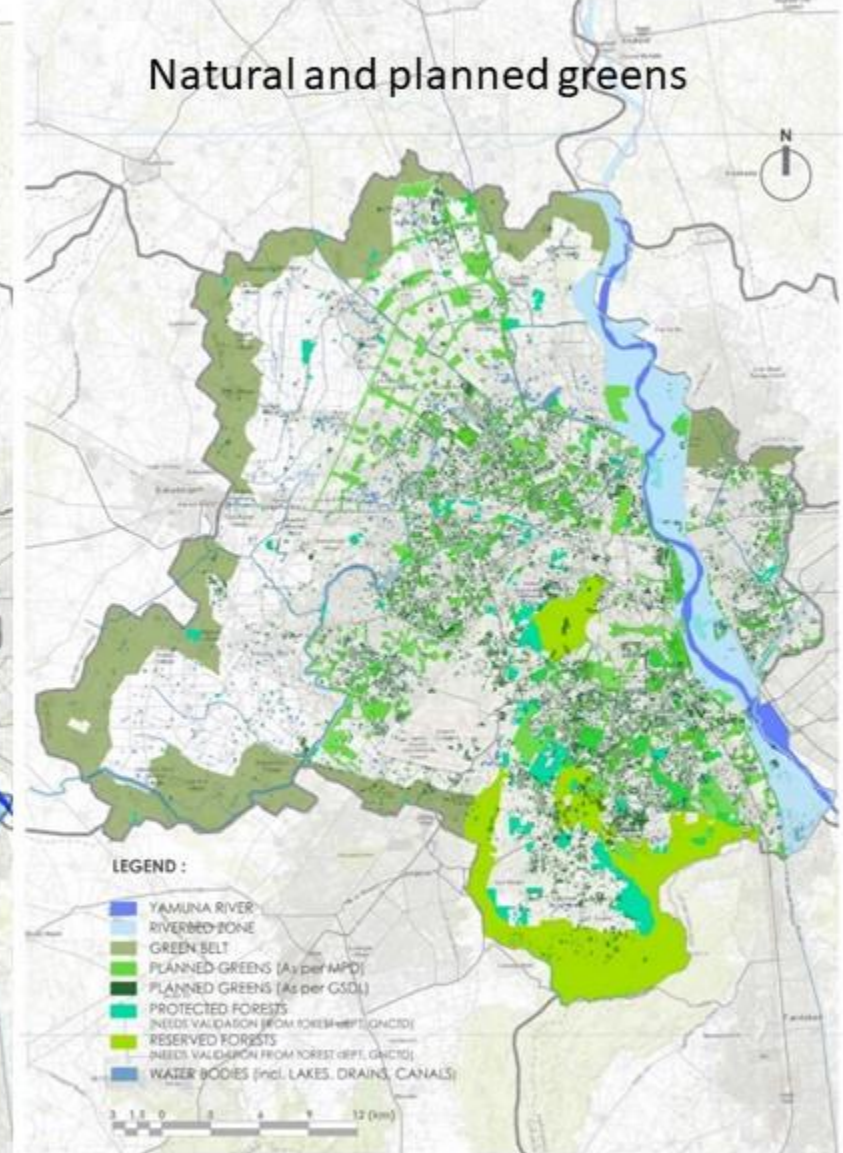
## Flooding hotspots overlaid with natural drains



## Water bodies



## Natural and planned greens



# NIUA's Foray into Water Management



Proposed WASH park in Mysuru

**Project Title:** Innovation Hub for Urban Water Supply, Sanitation and Hygiene Solutions (IHUWASH)

**Duration:** 2016–2019

**Resource Partners:** USAID

**Key achievements:**

1. Established **3 WASH labs** (local technical institutes)
2. Established **10 incubation centres** to handhold new innovators
3. Upscaled **8 WASH enterprises**

# NIUA's Foray into Water Management



**Project Title:** Urban Resilience Unit

**Duration:** 2018–

**Resource Partners:** Rockefeller Foundation

**Key achievements:**

1. In collaboration with Chennai Smart City Limited, IIT-Madras and the Madras Chamber of Commerce and Industry, is **piloting India's first urban data observatory on water in Chennai.**
2. Supporting in the development of **flood risk management strategies**



# NIUA's Foray into Water Management

**Project Title:** Sanitation Capacity Building Platform

**Duration:** 2015–

**Resource Partners:** Bill and Melinda Gates Foundation

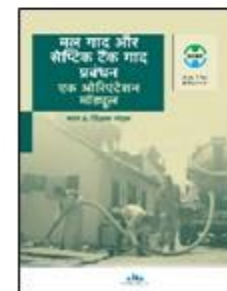
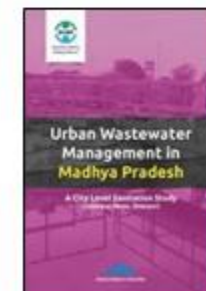
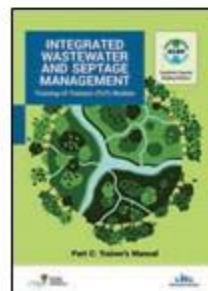
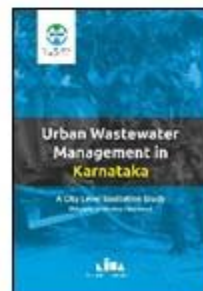
**Key achievements:**

1. First **DPRs of FSTPs** for 4 states
2. 4 **City Sanitation Plans** for Odisha towns
3. **Policy Framework for Water and Waste Water:** NUIS, MoHUA
4. Odisha **Rural Sanitation Policy**



# NIUA's Foray into Water Management

All learning materials available on [scbp.niua.org](http://scbp.niua.org)



# NIUA's Foray into Water Management

**Project Title:** Inclusive Revitalization of Historic Towns and Cities of India

**Duration:** 2016–2019

**Resource Partners:** World Bank and Cities Alliance

## Key achievements:

1. Land and **landscape management** program of critical riparian buffers for major rivers
2. Restoring natural **water bodies**
3. Re-establishing **traditional water and agricultural systems**
4. **Micro-watershed** management

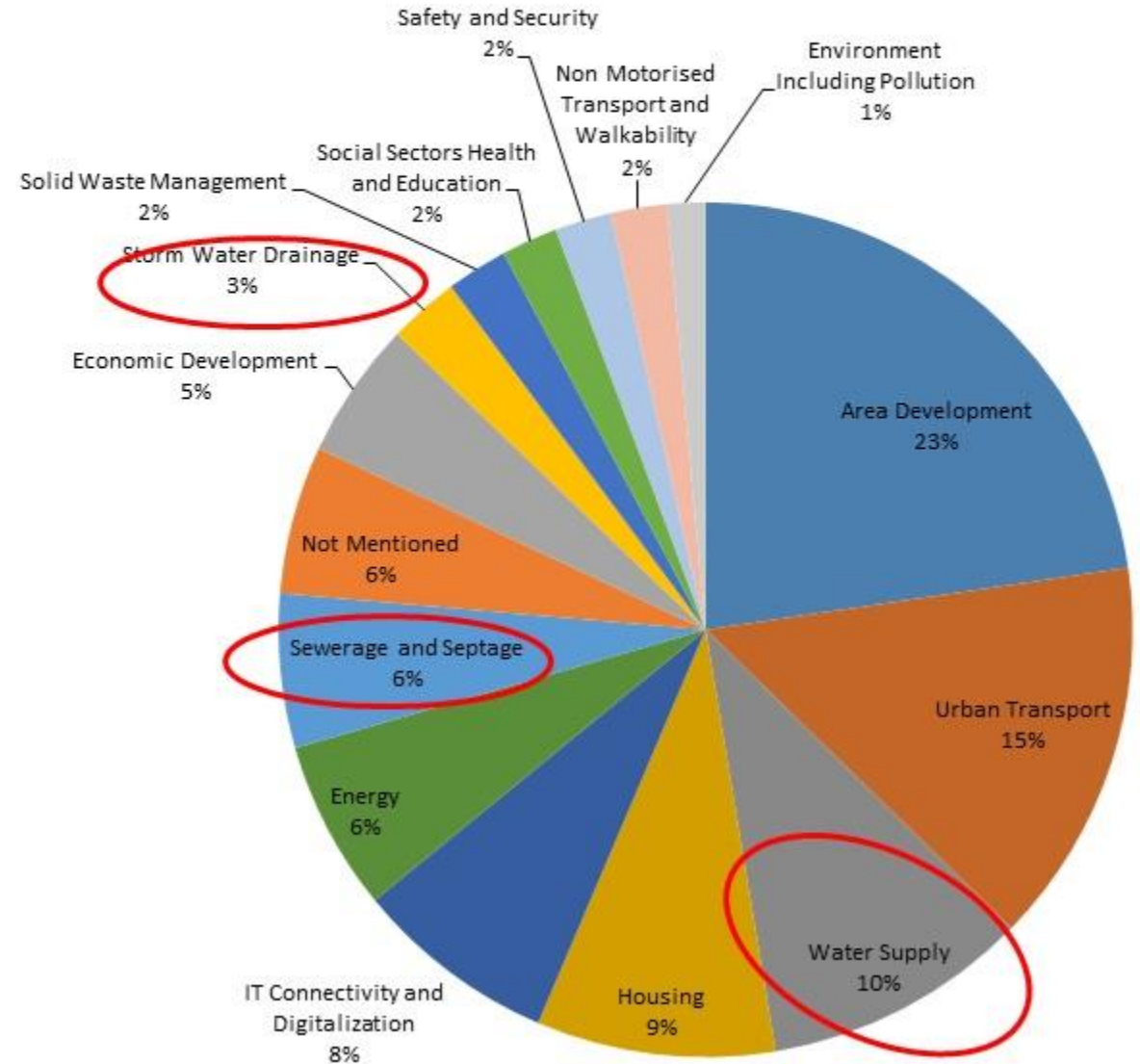


# Demand for Water and Sanitation Solutions

## Smart Cities Mission

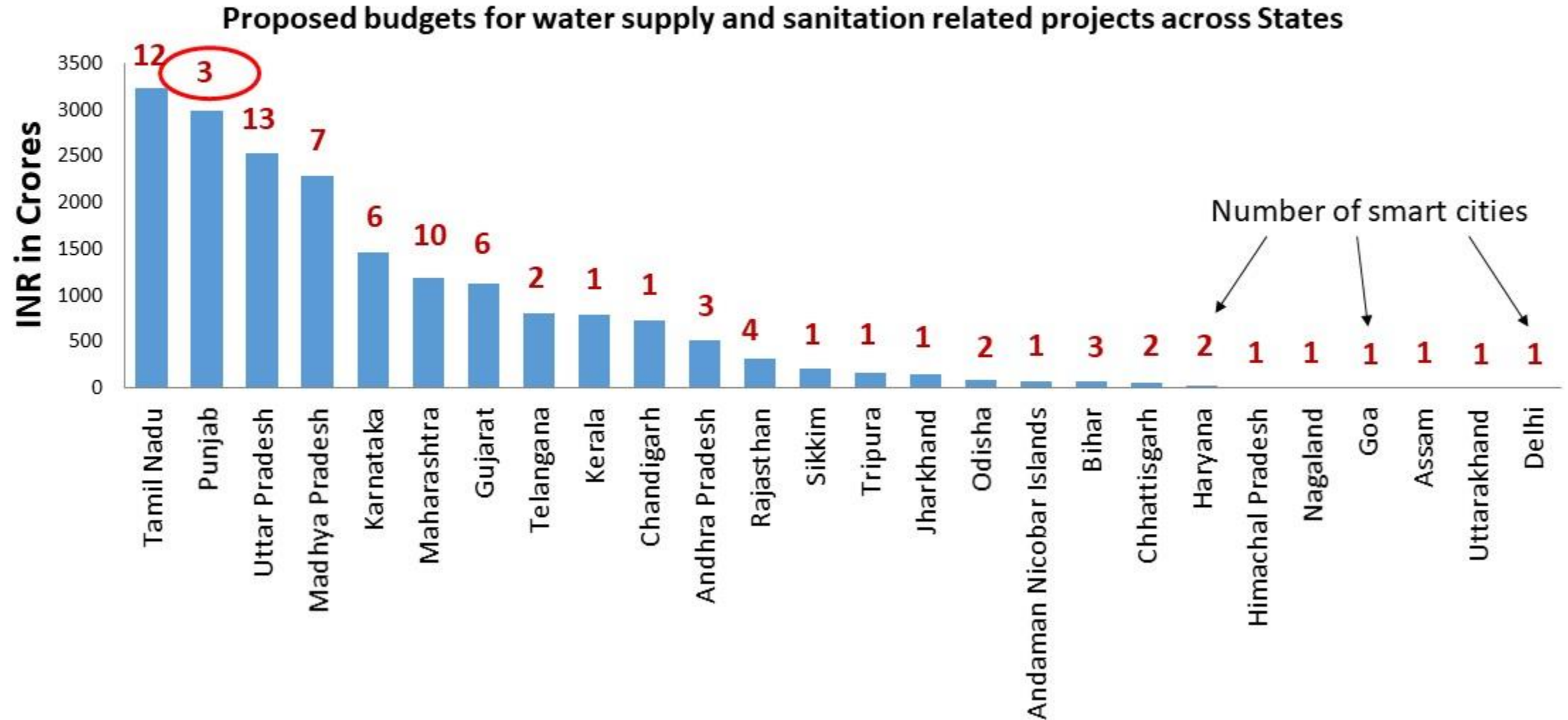


## Sector-wise budgets



# Demand for Water and Sanitation Solutions

## Smart Cities Mission

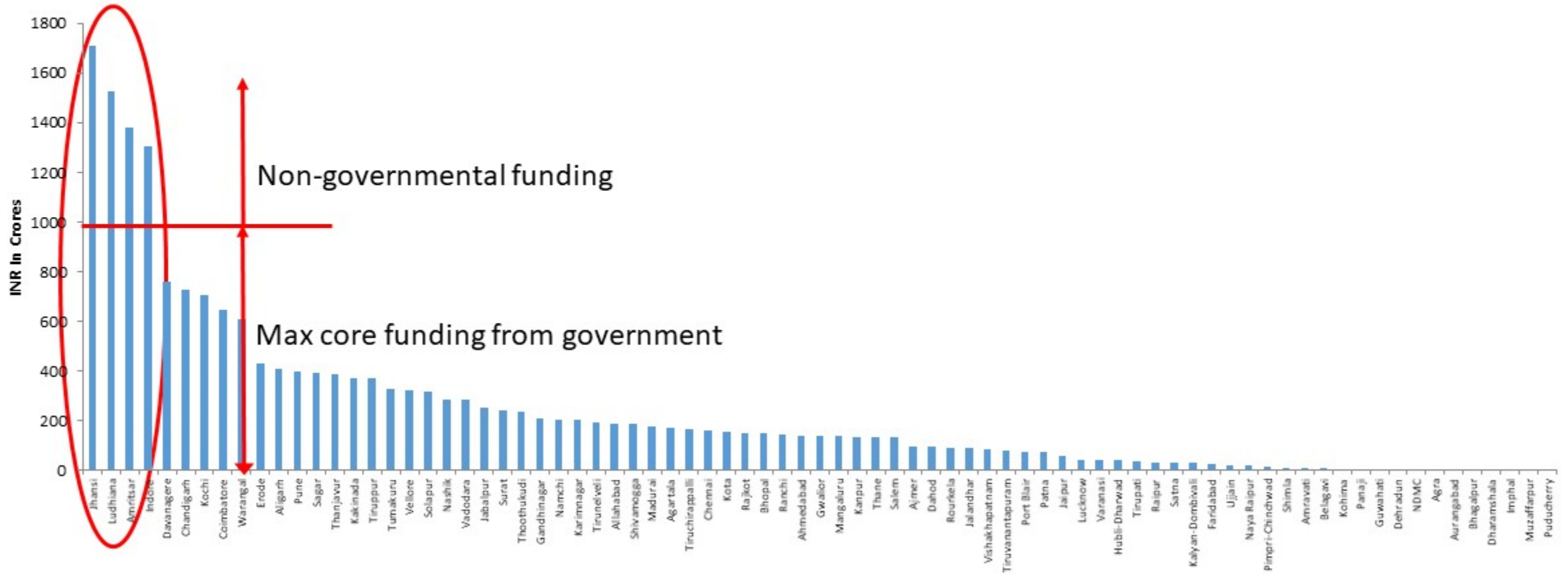




# Demand for Water and Sanitation Solutions

## Smart Cities Mission

Proposed budgets for water supply and sanitation related projects in the Smart Cities



## Paradigm shift in NIUA's water management portfolio



1. Strengthen the policy-practice interface
2. Create innovative and guiding tools and frameworks to foster practical action.
3. Help plug capacity gaps
4. Build a network of diverse stakeholders for collective and progressive action

*Thank you*