

# Metropolitan & Household Water Insecurity: Novel Tools for Achieving SDG6

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Implementation of innovative tools at global scale  
& policy implications

# Water Security: 21st Century key challenges



There are 2.5 billion of people without a safe water management



750 million people lack access to safe water and 2.5 billion to adequate sanitation.

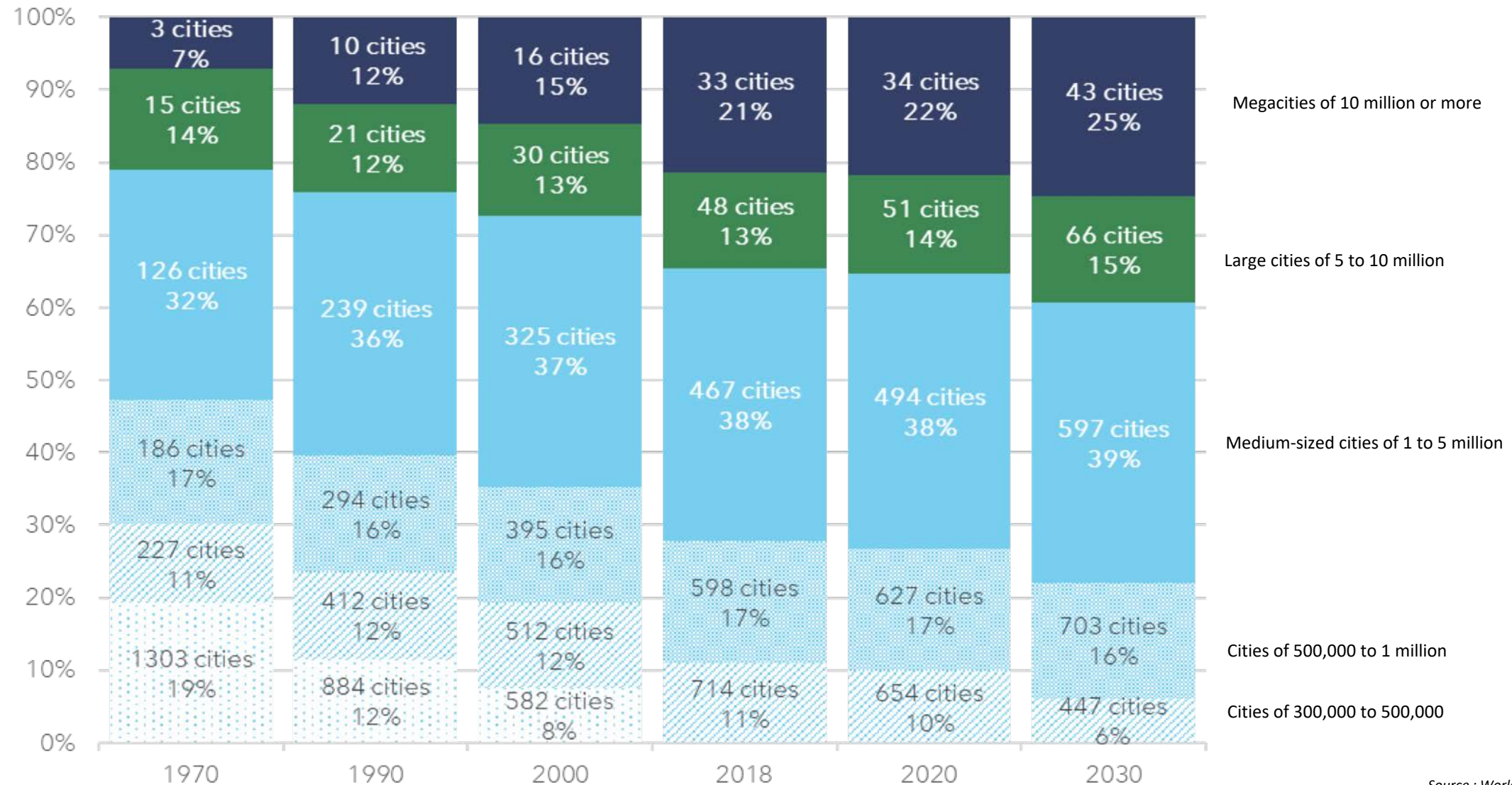


There are 4 billion without safely management of Sanitation



Almost 85% of the world's total wastewater is discharged without adequate or any treatment.

# SHARE OF CITY INHABITANTS IN THE WORLD URBAN POPULATION (1970-2030)



Source : World Urban Prospects UN - 2018

# City Blueprint®

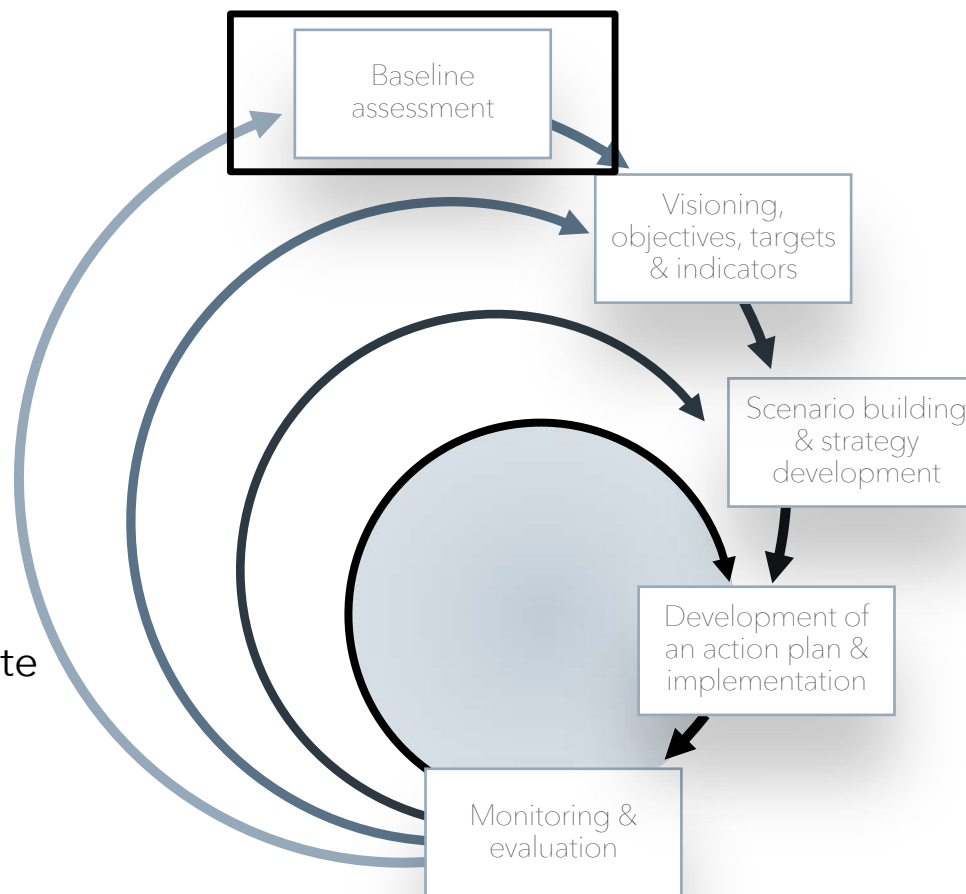


Stef Koop

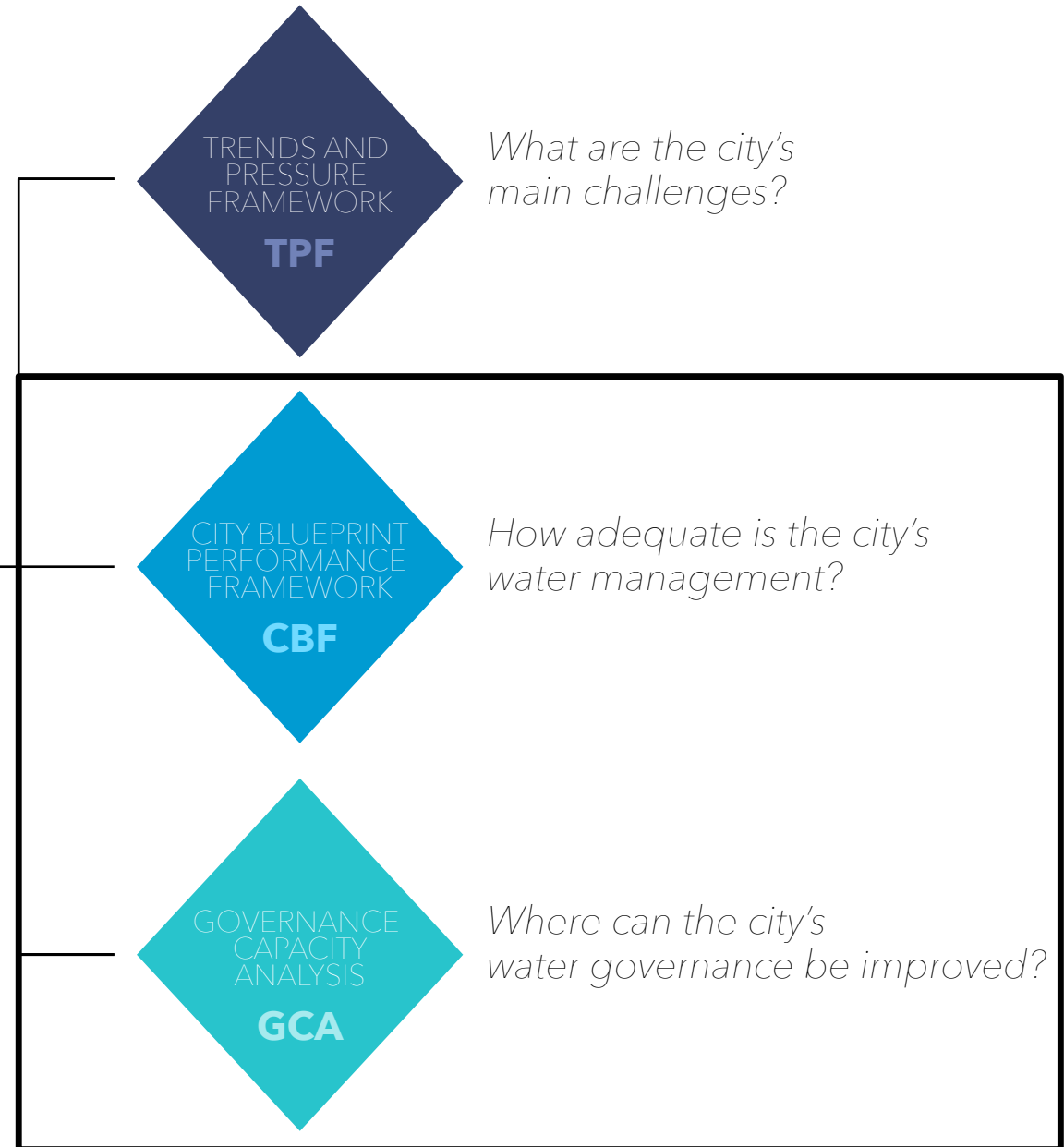


Kees van Leeuwen

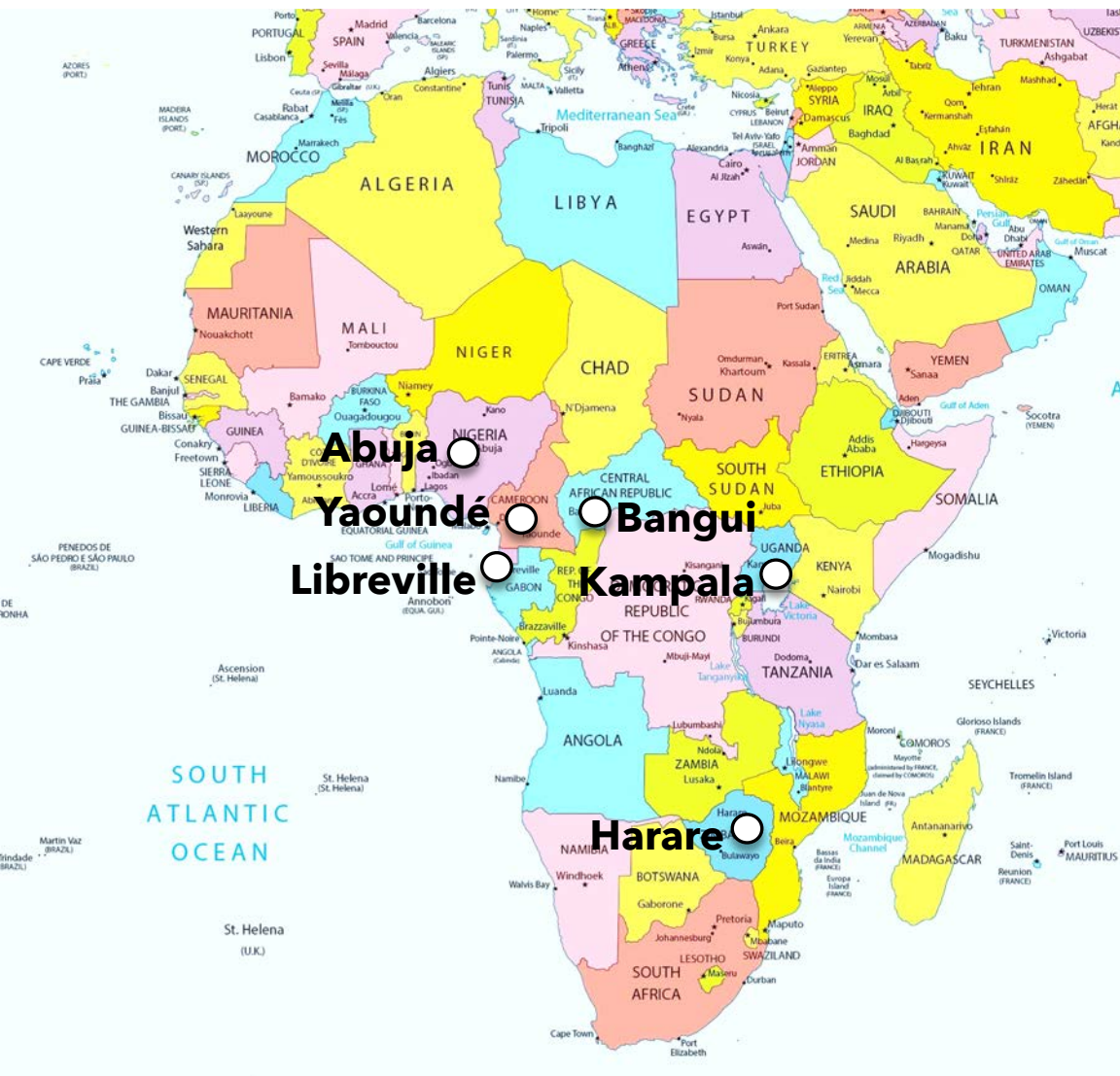
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# CITY BLUEPRINT APPROACH







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HWISE is ready!  
[hwise.org](http://hwise.org)



Worry

+



Interrupt

+



Clothes

+



Plans

+



Food

+



Hands

+



Body

+



Drink

+



Angry

+



Sleep

+



None

+



Shame



# Definition of Water Security

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The Strategic Plan of IHP-VIII defines water security as:

**'the capacity of a population to safeguard access to adequate quantities of water of acceptable quality for sustaining human and ecosystem health on a watershed basis, and to ensure efficient protection of life and property against water related hazards -- floods, landslides, land subsidence,) and droughts'.**

The ultimate goal of IHP is that populations worldwide and at all levels reach water security, as defined above



## AXIS 1

Mobilizing International cooperation to  
Improve knowledge and innovation to address  
water security challenges

## AXIS 3

Developing  
institutional and human  
capacities for water  
security and  
sustainability

WATER-RELATED  
DISASTERS AND  
HYDROLOGICAL  
CHANGE



GROUNDWATER  
IN A CHANGING  
ENVIRONMENT



ADDRESSING  
WATER SCARCITY  
AND WATER  
QUALITY



WATER AND  
HUMAN  
SETTLEMENTS OF  
THE FUTURE



ECOHYDROLOGY  
ENGINEERING  
HARMONY FOR  
A SUSTAINABLE  
WORLD



EDUCATION,  
KEY TO WATER  
SECURITY

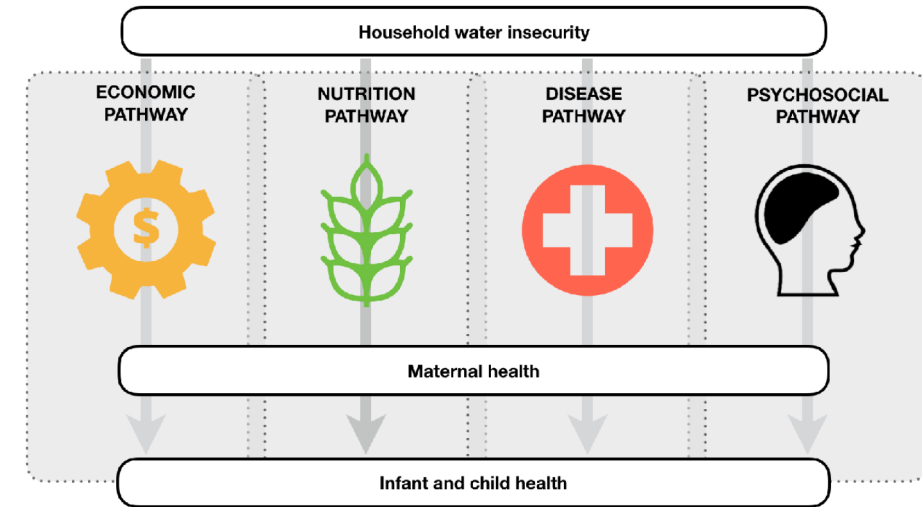


<<< WATER SECURITY, ADDRESSING LOCAL, REGIONAL AND GLOBAL CHALLENGES >>>

## AXIS 2

Strengthening the Science-Policy interface  
to reach water security at local, national,  
regional, and global levels

# How can HWISE advance SDG priorities?



• 1. Recognize drivers

• • 2. Understand prevalence, target resources

• 3. Monitor and evaluate interventions; determine cost effectiveness



# Take Away Messages

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- 1. SDG 6 will not be reached Business as usual**
- 2. UN Water SDG 6 Global Acceleration Framework:**
  - a) Optimized financing**
  - b) Improved data and information**
  - c) Capacity development**
  - d) Innovation**
  - e) Governance**
- 3. Cooperation with NW University and Gallup to implement HWISE at global scale**
- 4. Expand cooperation with KWR and University of Bath to more African capitals**
- 5. Knowledge platform / toolkit based on tools for Policy Relevant Action**