Metropolitan & Household Water Insecurity: Novel Tools for Achieving SDG6

Implementation of innovative tools at global scale & policy implications

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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)

Megacities of 10 million or more

Large cities of 5 to 10 million

Medium-sized cities of 1 to 5 million

Cities of 500,000 to 1 million

Cities of 300,000 to 500,000

Source: World Urban Prospects UN - 2018
City Blueprint®

Stef Koop  Kees van Leeuwen
KWR Watercycle Research Institute
CITY BLUEPRINT
APPROACH

What are the city’s main challenges?
How adequate is the city’s water management?
Where can the city’s water governance be improved?
HWISE is ready!
hwise.org
Definition of Water Security

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

AXIS 2
Strengthening the Science-Policy interface to reach water security at local, national, regional, and global levels

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
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

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