

End-user engagement in WASH research in low-income urban communities: the *AfriWatSan* experience

Seynabou Cissé Faye, UCAD Senegal

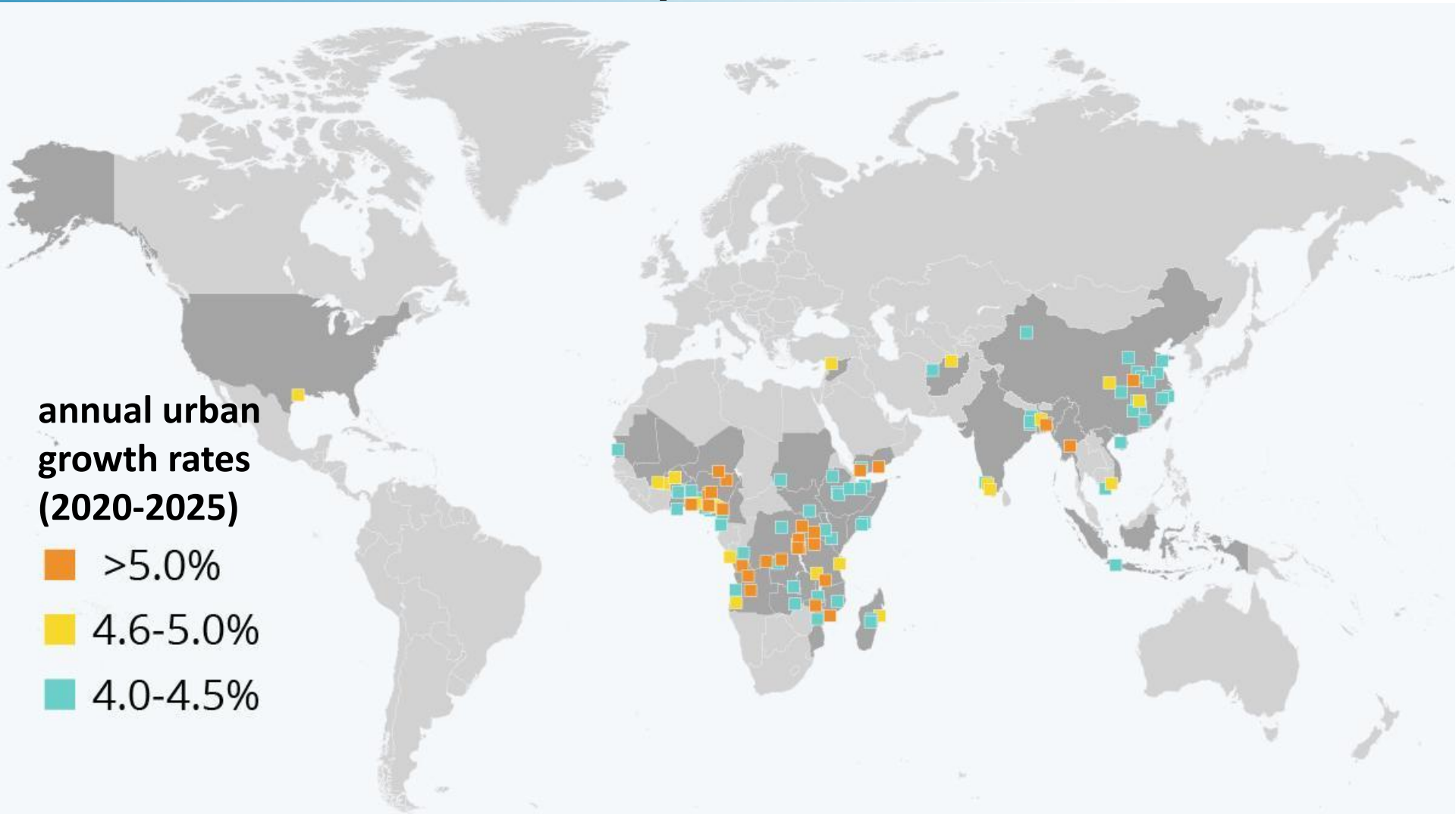


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Session 3E2: From research communities to end-users and citizens, enhancing cooperation through projects



- rapid urbanisation in tropical Africa constrains realisation of UN Sustainable Development Goal 6



UN Urbanization Prospects (2018)



- untreated urban groundwater provides low-cost access to safe water

Thiaroye (Dakar), Senegal



Bwaise (Kampala), Uganda

*Dr. Robinah Kulabako
Makerere University*

- on-site technologies (pit latrines, septic tanks) provide quick, low-cost access to sanitation

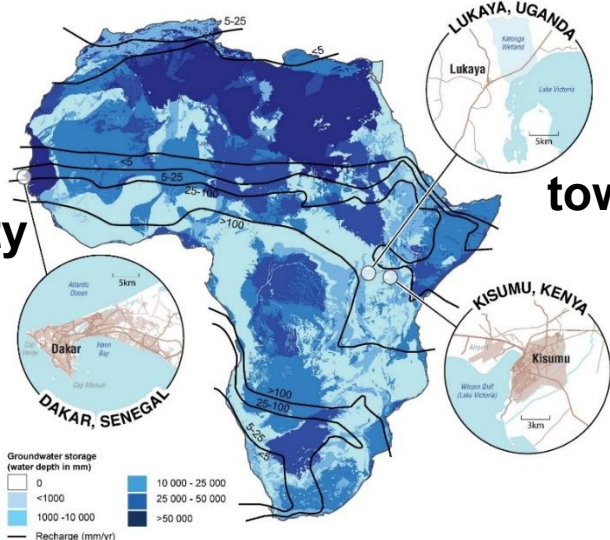


Kampala



Dakar

mega-city



town

city



Kisumu



Lukaya

aligned surveys & monitoring protocols across 3 urban observatories



Dakar

WASH research challenge: sustaining conjunctive use of the subsurface for on-site water supply and sanitation facilities

end-user engagement:

KISUMU (Kenya):

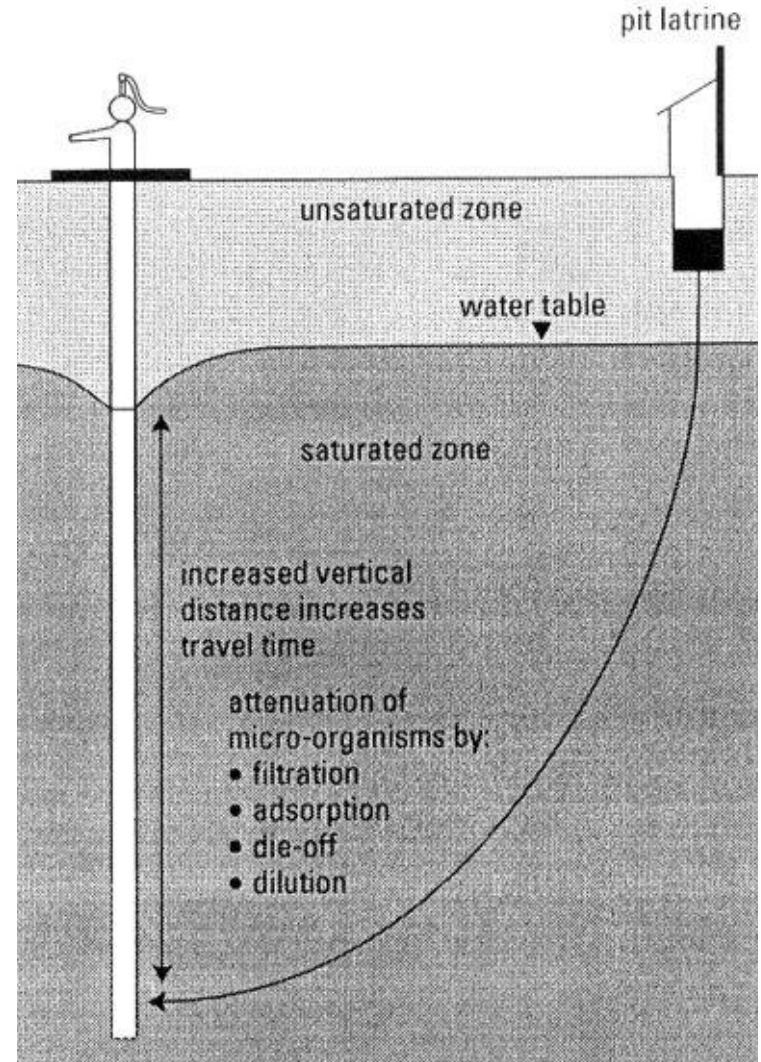
- Ministry of Water and Irrigation
- Kenyan Water Institute
- Kisumu Water and Sewerage Company

DAKAR (Thiaroye):

- Ministère de l'Hydraulique et de l'Assainissement
- Société Nationale des Eaux du Sénégal (SONES)
- Service National d'Hygiène,
- Sénégalaise des Eaux (SDE) / SenEAU
- Direction de la Gestion et de la Planification des Ressources en Eau (DGPRE)

Lukaya Town (Uganda):

- Ministry of Water and Environment
- National Water and Sewerage Corporation
- Lukaya Town Council



OXFAM
International

WSUP



Ministry of Water
and Irrigation
Kenya



KIWASCO
Refresh Life



MINISTRY OF WATER
AND ENVIRONMENT



REPUBLIQUE DU SENEGAL
Un Peuple – Un But – Une Foi



9 WORLD WATER
FORUM DAKAR 2022



WORLD
WATER
COUNCIL

outcome number 1



- end-user engagement has informed practical regulatory measures on urban groundwater use and highlighted inadequacies in regulatory compliance and maintenance of on-site water and sanitation facilities



Keur Massar (Dakar)



Lukaya Town (Uganda)

outcome number 2



- created educational opportunities with schools (Director, teachers, pupils) to understand how rain gauges operate rainfall monitoring, and the relationship between rainfall and groundwater – a key source of water supply to Dakar



PhD Student: *EPAU5* Keur Massar (Dakar)

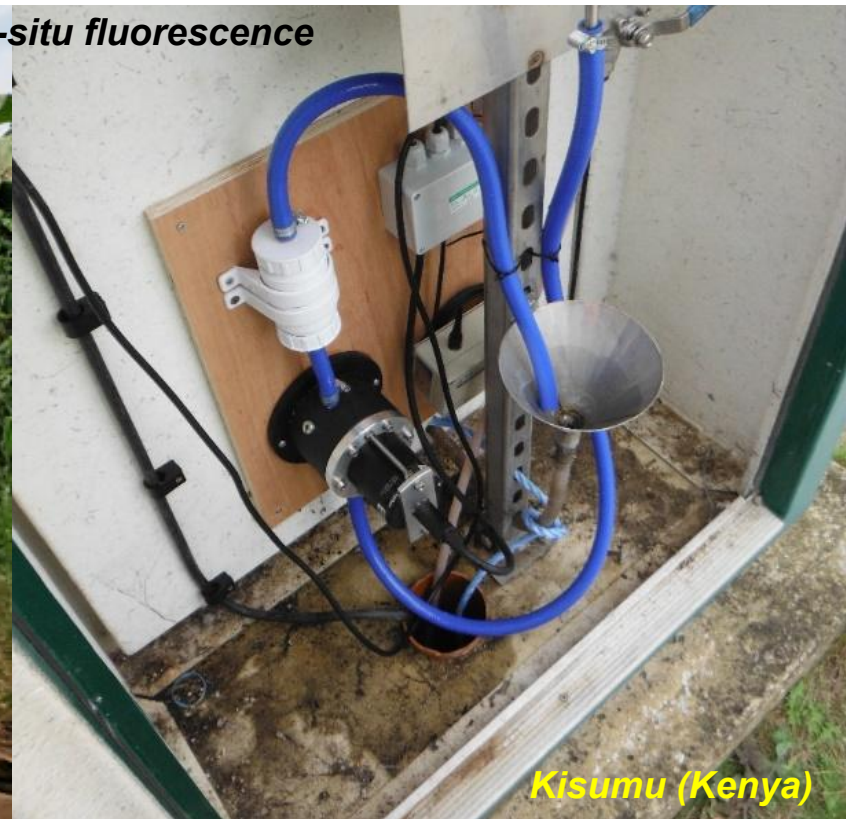
outcome number 3

- end-user engagement has supported the development of an instantaneous method of detecting faecal contamination of water supplies, enabling rapid reporting and corrective action such as boil-water advisories

water quality testing using in-situ fluorescence



Lukaya Town (Uganda)



Kisumu (Kenya)

outcome number 4

- interdisciplinary team including end users has promoted co-production of knowledge and capacity-strengthening, breaking down barriers to communication and dismantling hierarchies within research teams and among end-users

