

SIDE EVENT

12-17 August, 2018, Saskatoon, Canada



**International Conference and 69th International
Executive Council Meeting of the International
Commission on Irrigation and Drainage**



**Data-driven
improvement of water use
efficiency in small-scale irrigation**

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CIHEAM
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Food and
Agriculture
Organization



National
Agricultural
Research Organisation
Uganda



l'Autorité
de la mise en valeur
de la Vallée du Sourou

Partners
in
Organization



Institut
de l'Environnement
et de
Recherches Agricoles



Agricultural Water
for Africa



University
of Cordoba

Expected outcome

“Introducing data-driven improvement of water use efficiency and crop productivity through lessons learnt about Agricultural Water Management in Africa”



Objectives

I.

Underpin the importance of water data acquisition in agricultural water use

II.

Recommend methods and technologies for establishing datasets and management rules to improve Agricultural Water Management

III.

Discuss the strengths and weaknesses of technologies and methodologies in Agricultural Water Management

IV.

Share lessons from developing countries' experiences to highlight the role of effective technology deployment for scaling-out

Pilot areas



Ben Nafa Kacha – Burkina Faso



Mubuku – Uganda

Agenda

Session I: Diagnosis and Challenges of Agricultural Water Management in smallholders' traditional irrigation systems in Africa

14.00 – 14.30: Introducing the diagnostic approaches of assessing Agricultural Water Management in small-scale irrigation schemes in Africa

14.30 – 14.50: Identified factors preventing farmers and scheme management from increasing their water use efficiency in Africa: Results of applied methodologies in Burkina Faso and Uganda

- Trends and Outlook: The current state of smallholders' Agricultural Water Management in Africa: the consequences of low water use efficiency and water productivity in food insecure developing countries
- Measurement, Interpretation and Use of Water Productivity Data
- Insight into the AquaCrop and MASSCOTTE approach and its application to improve Agricultural Water Management in small-scale irrigation schemes in Africa

Agenda

Session II: Improving water-efficient irrigation: Prospects and difficulties of innovative technologies and practices in agricultural water management

15.15 – 15.40: Traditional and non-traditional technologies to address water data gaps in small-scale irrigation in Africa

- Measurement technologies and data acquisition to establish discharge history in traditional irrigation schemes in Burkina Faso and Uganda
- Critical assessment and addressed challenges in deploying innovative technologies in small-scale irrigation scheme in Uganda

15.40-16.20: Interpreting water use data into management rules to improve Agricultural Water Management through increasing water use efficiency

- Flexible Water Service approach for maximizing benefits through optimal water use
- Expected outcomes of Flexible Water Service approach: increasing farm profitability and water save through Flexible Water Service: case studies of Burkina Faso and Uganda

16.20 – 16.35: Encouraging small-scale farmers to embrace participatory water-management for applying technology and new irrigation methods

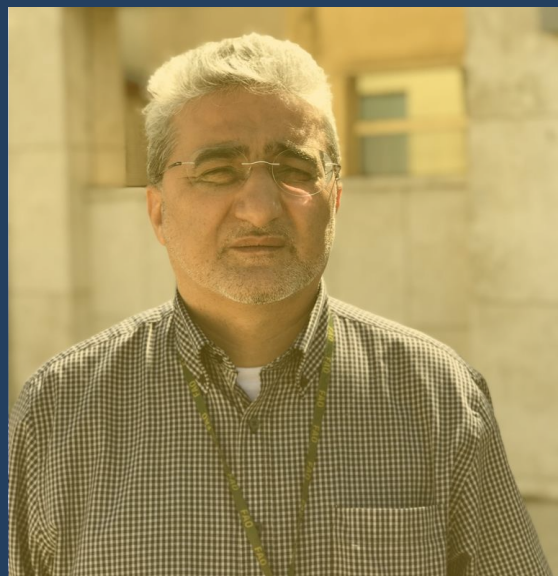
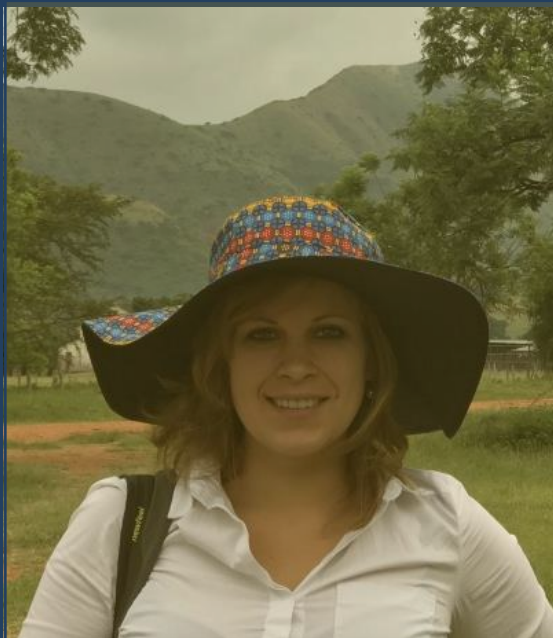
Agenda

Panel discussion

Role of technologies and data in agricultural water management in rural Africa

Conclusions and future prospects of developing water management in Africa





An aerial photograph of a vast, arid desert landscape. A winding river, likely the Colorado River, meanders through the center of the frame. The terrain is characterized by numerous small, rounded hills and valleys, creating a textured, undulating surface. Scattered throughout the scene are numerous white, fluffy clouds of varying sizes, some resting on the ground and others floating in the sky. The overall color palette is dominated by earthy tones of brown, tan, and grey, contrasted with the bright white of the clouds and the deep blue of the sky.

Let's start