



“Drought and Water Scarcity Risk Management”

Expert Facility Activity No: EFS- EG-2

WORKSHOP CONCEPT NOTE AND PROGRAM

Workshop on water demand management, planning and infrastructure development.

22nd January 2019

Steigenberger Hotel, Cairo, Egypt

1. Context

Within the scope of the EFS-EG-2: “Drought and Water Scarcity Risk Management”, the EU-funded project “Sustainable Water Integrated Management & Horizon 2020 - Support Mechanism (SWIM-H2020 SM)”, in cooperation with Ministry of Water Resources and Irrigation (MWRI) is conducting a full-day workshop on water demand management, planning and infrastructure development.

2. Introduction

Limited water supply in Egypt is exacerbated by climate change and the fact that the country shares more than 93% of its resources (the Nile River) with ten other countries; all located in the upstream stretches of the River. In order to implement water demand management which is promoted by the National Water Resources Plan (NWRP) 2005-2017, the water sector has to (1) be aware of the different types of water losses and wastage (i.e. inefficient water use), (2) develop knowledge on water conservation and water efficiency methods and water demand management (WDM) tools (economic, technical, regulatory) as they are applied in the different sectors (domestic, touristic, industrial, agricultural), and (3) be informed on the prevailing water use patterns of the key sectors and the potential water use reduction through the application of best practices and best available technologies.

The SWIM-H2020 SM specific activity EFS-EG-2: “Drought and Water Scarcity Risk Management” aims to build capacity on methods of classifying and assessing water uses, assessing water balance, analyzing demand management options (including water saving technologies) and planning infrastructure development and conduct a relevant workshop touching on these topics.

3. Scope and Objectives

The general objective of the workshop is to build technical capacity of the MWRI staff on methods of assessing water use and water balance, on potential demand management interventions, and on the principles of planning infrastructure development. The workshop



seeks to increase the knowledge and technical capacity of the participants on how to classify and assess the water use of the main water-consuming sectors, how the methodologically evaluate the water balance at a decentralized level, how to screen through demand management options, and how to take decisions on investing in infrastructures/ water works and interventions. As such, it aims at contributing to drought and water scarcity mitigation and risk management, by educating the MWRI staff on different aspects of the demand management pathways.

The draft Agenda is provided below.

4. Target Audience

The following audience is targeted:

- Technical and managerial staff from the MWRI who are involved in either of the following topics: water use and/or water resources monitoring and analysis, water use and demand management, water use efficiency, water management at the decentralized level, water works planning.

The target number of participants in the workshop is around 10 persons.

5. Methodology and Structure of the Workshop

The workshop is structured in three parts:

Part 1:

- Presentation on methods for classifying and assessing water uses
- Presentation of the methodological approach for assessing water balances and practical calculation tools
- Participatory discussion on issues related to water use and water balance assessment, constraints, etc.

Part 2:

- Presentation of various demand management options (including water saving technologies) and practical guidelines

Part 3:

- Presentation on methods for planning and infrastructure development (i.e. how to take a decision on investing in infrastructures/ water works and interventions)

Electronic copies of the presentations will be prepared by LDK and provided to all participants.

The language of the workshop will be English. Interpretation in Arabic will be provided.

6. Resource Persons

- Eng. Ms. Dina Mamdouh, Deputy Director for Mathematical Programs, Planning Sector, Ministry of Water Resources and Irrigation (MWRI), SWIM National Focal Point. Email: dinamamdouh@hotmail.com
- Dr. Maggie Kossida, SWIM-H2020 international non-key expert on Water Demand Management. Email: maggie@ldksa.gr



- Dr. Demetris Zarris, SWIM-H2020 international non-key expert on Water Resources Management. Email: dez@ldksa.gr

7. Outcomes of the Workshop

- Participants will have an improved understanding on how to classify and assess water uses, for the different sectors, and based on international standards
- Participants will gain knowledge on how to perform water balance calculations, and what tools can be used to facilitate this process
- Participants will gain improved knowledge on the different demand management options, water conservation and water use efficiency technologies and practices for different sectors, and on practical guidelines to guide their selection
- Participants will gain improved knowledge on methods for planning and infrastructure development and how to take a decision on investing in infrastructures/ water works and interventions.

8. Workshop Agenda

The draft workshop program outline is given below.

Agenda: SWIM-H2020 SM Workshop on water demand management, planning and infrastructure development.

22 January 2019, Steigenberger Hotel

Item	Time	Description	Speaker
	9:00 – 09:30	Registration	
#1	09:30 – 10:00	<ul style="list-style-type: none">▪ Welcome remarks▪ Presentation of the workshop objectives and agenda▪ Tour de table (introduction of the participants)	<ul style="list-style-type: none">▪ Dr. Eman Sayed, Head of the Planning Sector, MWRI▪ Dr. Maggie Kossida (SWIM-H2020 Non-key Expert)
#2	10:00 – 10:30	Methods for classifying and assessing water uses	Dr. Maggie Kossida (SWIM-H2020 Non-key Expert)
#3	10:30 – 11:00	Methodological approach for assessing water balances and practical calculation tools	Dr. Maggie Kossida (SWIM-H2020 Non-key Expert)
	11:00 - 11:15	Coffee Break	
#3	11:15 – 12:15	Participatory discussion on issues related to water use and water balance assessment, constraints, etc.	All participants
#4	12:15 – 13:00	Overview of different demand management options and water saving technologies across different sectors, and practical guidelines	Dr. Maggie Kossida (SWIM-H2020 Non-key Expert)



			Expert)
	13:00 – 14:00	Lunch Break	
#5	14:00 – 15:00	Methods for planning and infrastructure development (i.e. how to take a decision on investing in infrastructures/ water works and interventions)	Eng. Demetris Zarris (SWIM-H2020 Non-key Expert)
#6	15:00 – 16:00	Participatory exercise with the MWRI staff	All participants
	16:00 – 16:15	Coffee Break	
#7	16:15 – 17:00	Reporting back from the participatory exercise	All participants <i>Facilitator: Dr. Maggie Kossida</i> <i>Rapporteur: Eng. Demetris Zarris</i>
#8	17:00 – 17:30	Closing remarks Workshop Evaluation (Questionnaires)	All participants