



**GLOBAL
FUTURES**
& Strategic Foresight

a CGIAR initiative led by IFPRI



Global Futures and Strategic Foresight (GFSF) workshop on:
***“Groundwater and bio-economic simulations of relevant future scenarios,
including improved wheat technologies for Tunisia and Jordan”***

*ICARDA Office, Abdoun, Khalid Abu Dalbough Str., Building No. 13
Amman, 16 – 17 June 2015*

Participation in this workshop is by invitation only

Workshop objective: To define groundwater and wheat scenarios for bio-economic simulations using the IMPACT model. In this workshop, scenarios for simulations of groundwater utilization and promising wheat technologies will be defined using (to the extent possible) updated data on wheat and groundwater utilization in Tunisia and Jordan. The focus on wheat technologies will be on wheat varieties that improve water efficiency. Scenarios will be set for medium-long term simulations (up to 2050), with various climate change assumptions. Options for improving groundwater use for irrigation in the two countries will also be explored based on an upgraded IMPACT model.

The workshop aims at increasing collaboration between IWMI-ICARDA and national partners from Tunisia and Jordan. It will enhance partners’ capacities in groundwater and bio-economic modeling work especially for identifying relevant promising technologies to make cropping systems more profitable, sustainable, and resilient in the context of climate change.

Agenda

Tuesday, 16 June – Overview, scenario development

09:15 **Session 1: Welcome and purpose of the workshop**
Moderator: Dr. Roberto Telleria, ICARDA

09:30 **Session 2: Presentation of the Global Futures and Strategic Foresight (GFSF) Project**
IWMI: Dr. Karen Villholth and Dr. Aditya Sood
ICARDA: Dr. Roberto Telleria
Moderator: Dr. Aymen Frija, ICARDA

10:30 **Session 3: Current groundwater situation, policies and wheat production: The cases of Tunisia and Jordan (country presentations)**
Ministry of Water and Irrigation of Jordan: Dr. Khair Al-Hadidi
Ministry of Agriculture of Tunisia: Mr. Abderraouf Laajimi
Moderator: Dr. Roberto Telleria, ICARDA

11:30 *Coffee*

12:00 **Session 4: Definition of simulation scenarios**

Moderator: Dr. Aditya Sood, IWMI

13:30 *Lunch*

14:30 **Session 5: *Groundwater and wheat data needed for simulations***

Data needs will be discussed. Preliminary list includes:

A) Crop level information: 1) Irrigated area; 2) Rainfed area; 3) Irrigated yield; 4) Rainfed yield; 5) Surface water used for irrigation; 6) Groundwater used for irrigation.

B) Time series of groundwater table level;

C) Time series of groundwater recharge.

Moderator: Dr. Prakash Dixit, ICARDA

16:00 *Coffee*

19:30 *Dinner at Restaurant (tbd)*

Wednesday, 17 June – Planning for model simulations and way forward

09:00 **Session 1: Integration of Groundwater scenarios and wheat technologies into IMPACT**

Moderator: Dr. Aymen Frija, ICARDA

10:30 *Coffee*

11:00 **Session 2: Way forward**

Moderator: Dr. Karen Villholth, IWMI

12:30 *Lunch and closure*

Participants:

ICARDA: Dr. Aymen Frija, Dr. Prakash Dixit and Dr. Roberto Telleria

IWMI: Dr. Aditya Sood and Dr. Karen Villholth

National partners:

NCARE (Jordan): Ms. Siham Allouzi and Ms. Amal Al-Khatib

Ministry of Water and Irrigation (Jordan): Dr. Khair Al-Hadidi and Mr. Mamoon Ismail

INRAT (Tunisia): Mr. Hatem Cheikh Mhamed

Ministry of Agriculture (Tunisia): Mr. Abderraouf Laajimi

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