



Global Futures and Strategic Foresight (GFSF) workshop on:

***“Comprehensive assessment of the global trend of pressures on water resources and its effect on the agricultural sector and food security in Tunisia”***

ICARDA

Tunis, 10-11 May 2016

**Workshop objective:** To present the “IMPACT” (International Model for Policy Analysis of Agricultural Commodities and Trade) and the ASMOT (Agricultural Supply Model for Tunisia) modelling tools and their scope to analyze long term hydrological scenarios at country level in order to support decision making on water policy. In the framework of our PIM CRP (Policies, Institutions, and Markets Consortium Research Program) activities at ICARDA, a research activity on the impact of long term increasing pressures on groundwater resources and its effect on agricultural sectors and food security in Tunisia and Jordan, has been started in 2015. Future groundwater scenarios for both countries have been developed in order to be simulated in the IMPACT and ASMOT models and assess their national-wide effect. The current workshop aims to further discuss and validate the developed scenarios together with policy makers and researchers from the Ministry of Agriculture, Hydraulic Resources and Fisheries of Tunisia. We also would like to present the scope of these modeling tools for potential use in decision making support. This workshop will also be an occasion to elaborate a cooperation and support strategy with the relevant technical and research capacities at the ministry. Finally, the workshop aims at increasing collaboration between IWMI-ICARDA and national partners from Tunisia and enhance partners’ capacities in groundwater and bio-economic modeling of promising resource management options for enhanced sustainability.

## Agenda

### **Tuesday, 10May– Overview of the IMPACT modelling tool and scenario development**

- 09:15 **Presentation 1: Welcome and purpose of the workshop**  
Dr. Mohamed El Mourid, ICARDA
- 09:30 **Presentation 2: Presentation of the Global Futures and Strategic Foresight (GFSF) Project.**  
**IWMI:** Dr. Karen Villholth and Dr. Aditya Sood  
**ICARDA:** Dr. Aymen Frija
- 10:30 **Presentation3: Modelling Tools (IMPACT/ASMOT), capacities and scope for economic and policy simulations in Tunisia:** Dr. Aymen Frija
- 11:00 *Coffee*
- 11:30 **Presentation4: The hydrology component of the IMPACT model:** Dr. Sood Aditya

12:00 **Presentation 5: The currently elaborated scenarios for long term simulation of water management options:** Dr. Aymen Frija / Dr. Karen Villholth

12:00 **Discussion and questions session:**  
Moderator: Dr. Aden Aw Hassan, ICARDA

13:30 *Lunch*

14:30 **Presentation6: Country presentations:**

- **Water Strategy 2050, Key components and challenges**
- **Specific water management options developed in the framework of the Water strategy 2050**
- **Research gaps where simulation tools are needed to assist the water strategy**

**Discussion and questions**

Moderator: Dr. TBD

19:30 *Dinner at Restaurant (tbc)*

### **Wednesday, 11May – Planning for model simulations and way forward**

09:00 **Round Table 1: harmonization of the developed water scenarios with the requirement of the Water Strategy agenda**

Moderator: Dr. Aden Aw Hassan, ICARDA

11:00 **Round Table2: Data implications and way forward**

Moderator: Dr. Karen Villholth, IWMI

11:00 **Round Table3: Wrap-up: Other topics of interest for potential future collaborations**

Moderator: Dr. Karen Villholth, IWMI

10:30 *Coffee*

13:00 *Lunch and closure*

#### **Participants:**

**ICARDA:** Dr. Mohamed El Mourid, Dr. Aymen Frija, Dr. Aden Aw Hassan

**IWMI:** Dr. Aditya Sood and Dr. Karen Villholth, Dr. Alvar Closas

**National partners:** IRESA (INRGREF, INRAT); Ministry of Agriculture, Hydraulic Resources and Fisheries (Tunisia): TBD

GFSF is led by IFPRI and funded by the Bill and Melinda Gates Foundation, the CGIAR Research Program on Policies, Institutions and Markets (PIM), and the CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS).