



# Improving Sustainable Groundwater Management of the Lower Valley of Medjerda Bassin

# SMART\_IWRM Medjerda

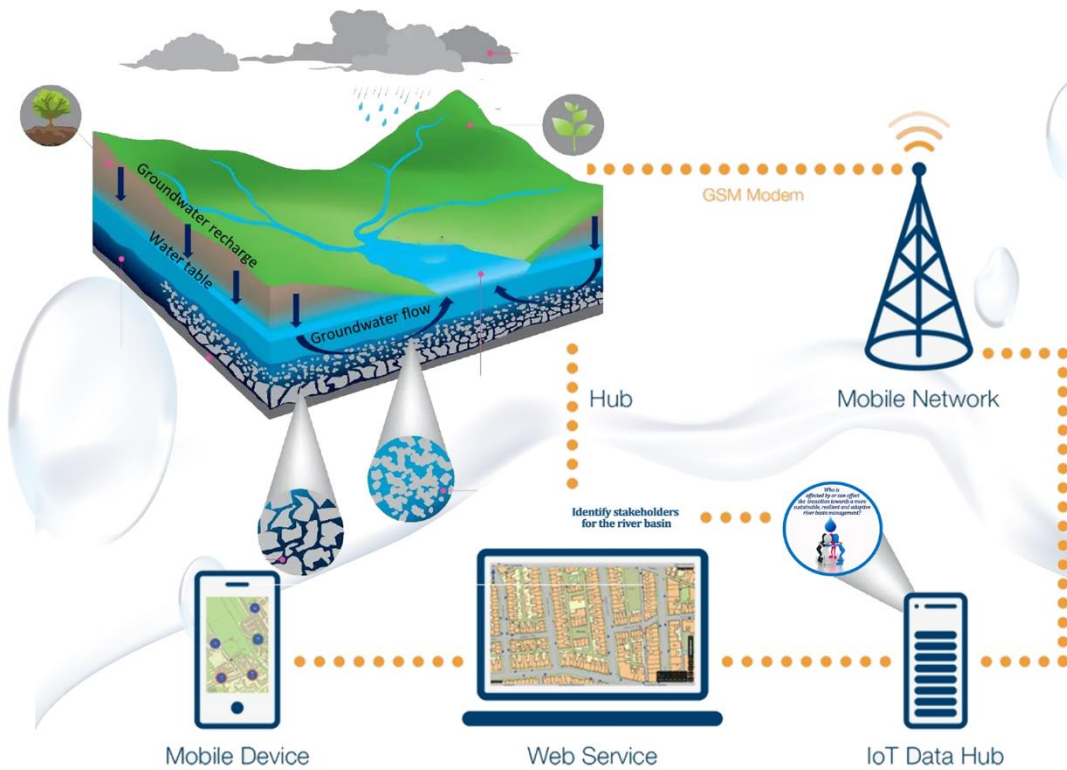
Newsletter # 02

October 2019



*Improving Sustainable Groundwater Management of the Lower valley of Medjerda Bassin*

**PEER Program Cycle 7 (NAS\_USAID)**



## Newsletter Topics

- Water Sampling
- Field Survey

- Awareness Campaign

## Water Sampling Campaigns

**Event Description :** In order to evaluate the quality of groundwater of the Lower valley of Medjerda and to identify the origin of pollution, we conducted groundwater sampling campaigns in three regions: Béja, Ariana and Bizerte (Ousja-Ghar El Meleh). The samples were analyzed in the Landcare MED laboratory at the ESIM.

### In Béja Region

**Event Dates :** 02<sup>th</sup> May 2019  
**Participants :** Hydraulic and planning Engineer Student & project team



### In the Ousja-Ghar El Melh Region

**Event Dates :** 18 & 19<sup>th</sup> October 2019  
**Participants :** PhD & master Students and project team



### In Ariana Region

**Event Dates :** 04 & 05<sup>th</sup> May 2019  
**Participants:** PhD & master Students and project team



### Field Survey

**Event Dates :** 05<sup>th</sup> May 2019  
**Participant Description:** PhD & master Students, project team & The NGO

**Event Description :** Field survey was conducted with farmers to assess the modalities of water use in the region



### Awareness Campaign

**Event Description :** Awareness campaign about the efficient water use was conducted to profit of rural women and young people with the support of the Association for Development, Environment & Heritage (ADEP)

# SMART\_IWRM\_Medjerda Project

## SMART\_IWRM\_Medjerda

**"Improving Sustainable Groundwater Management of the Lower valley of Medjerda basin"** is the Research & Development project funded by the [PEER cycle 7 program](#) (NAS\_USAID) and led by the [Higher School of Engineers of Medjez El Bab \(ESIM\)](#) and the [U.S. Geological Survey USGS](#).

## PEER program (NAS\_USAID)

[The Partnerships for Enhanced Engagement in Research \(PEER\) program](#) is a competitive awards program that invites scientists in developing countries to apply for funds to support research and capacity-building activities on topics of importance to USAID and conducted in partnership with U.S. Government (USG)-funded and selected private sector partners. The program is supported by [USAID](#) but implemented by the [U.S. NAS](#).

## Specific Objectives

[SMART\\_IWRM\\_Medjerda](#) project aims to support groundwater resources management of the Lower valley of Medjerda River basin based on IWRM principles through three main pillars :

- Overall initial assessment of groundwater resources availability and quality
- Data management & Numerical simulation of water resources
- Capacity Development

## Expected Results

- Implementation of a **smart water monitoring system using IoT platform**
- Development of a **GIS modelling platform based decision support system tool (DSS)** that can be used by managers in water-resource decision making.
- Improve **capacity building** of water stakeholders and **empowering women role** in water sector