



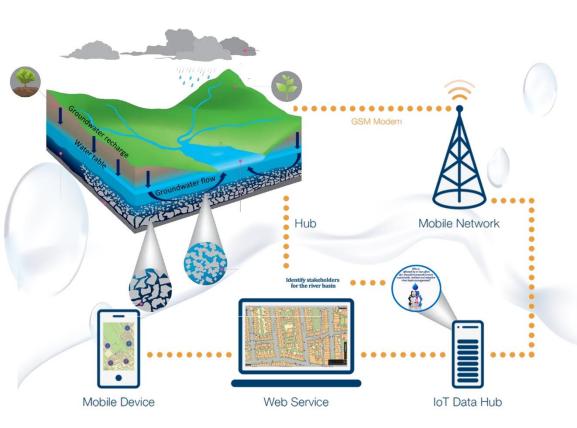








Improving Sustainable Groundwater Management of the Lower Valley of Medjerda Bassin



SMART_IWRM Medjerda

Newsletter # 01

April 2019

Improving Sustainable Groundwater
Management of the Lower valley of

PEER Program Cycle 7 (NAS_USAID)

Newsletter Topics

Intensive workshop in the data management using Machine Learning Models

Event Title: Intensive Training Course "Data management using Machine Learning

models (flood, groundwater...)"

Event Organizer: PEER_ESIM

Event Dates: 10 & 11 April 2019

Participant Description: PhD and Engineers students, Engineers from General Direction of water resources (DGRE) and the Regional Commissariat agricultural development (CRDA Manouba), Engineers from the National Mapping and Remote Sensing Center (CNCT), Engineers from the Regional Remote Sensing Center for North African States (CRTEAN), researcher from the National Research Institute of rural engineering, Water and Forests (INRGREF).







From "Korea Institute of Geoscience and Mineral Resources (KIGAM)" and proffessor in "Korea University of Science and Technology" in GIS has presented a theoretical advanced training and practical exercises on the application of Machine Learning Algorithms on the water data management using ARCGIS, Weka SAGA GIS & SPSS Software.





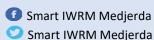












SMART_IWRM_Medjerda Project

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. (USG)-funded Government 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 groundwater of resources availability and quality

Data management & Numerical simulation of water resources

Mobile Network

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













