



# **Achievements Work Package 3: Application of water management plans**

# Achievements Work Package 3

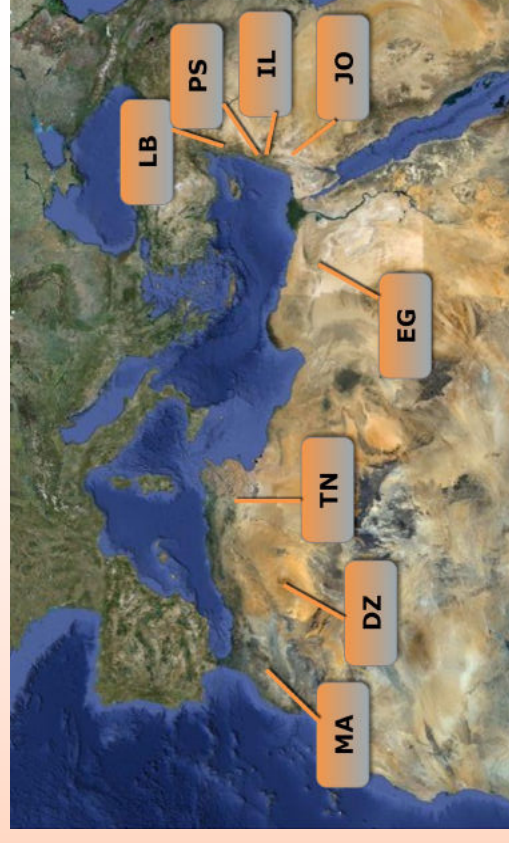
## PILLAR A

PROF. HOSNY KHORDAGUI

**Activity 3.1.1: Assessment on the best available technologies and economic potentials related to wastewater reuse, aquifer recharge, sustainable desalination, etc. at regional level & their application at national level.**

**Objectives:** To develop a simple reference document on best available technologies in wastewater reuse in rural areas including groundwater recharge and small scale desalination using solar energy in rural areas.

**Activity:** Two ToRs were prepared, approved & 2 NKEs engaged. Two technical reports were produced (1) covering BAT for desalination in rural areas and (2) Economic aspects of desalination. A core group of eminent desalination experts was also formed with detailed functions. The core group held its first meeting in Athens with national experts on 11 & 12 June 2012 to discuss the outcomes of the desalination BAT study and to advise on SWIM-SM's future work-plan on desalination.



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PROF. HOSNY KHORDAGUI

## **Main outcomes:**

### BAT for Desalination in Rural Areas:

- Guideline to screen and assess suggested BAT options for desalination was developed
- Modality for assessing local community needs for desalination was suggested.
- A mechanism for integrating BAT in desalination at local level into National water resources management plans was developed.

### Economic considerations:

- Opportunity cost analysis of desalination versus technical efficiency was examined.
- A guideline on performing opportunity cost analysis for desalination was developed.

**Progress:** 100% activity completed

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MR. CHARBEL RIZK

## Wastewater Activity:

- The activity consisted of a desk review to identify Best Available Technologies (BATs) for Wastewater Treatment and Reuse in rural areas.
- The desk review was also supported by discussions with stakeholders during mission meetings and SWIM-SM events.
- The focus on rural areas was advised by the expert group meeting that had reviewed the work of SWIM-SM at its inception in 2011.

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MR. CHARBEL RIZK

## Main outcomes:

The assessment report contains

- A review of all available processes and technologies suitable for wastewater treatment and reuse.
- A flowchart breaking down the technology selection process including technical, financial and social criteria
- Guidelines for inclusion of wastewater treatment and reuse in rural areas in national policies
- The report can be used by PCs as a tool to support the promotion of wastewater treatment and reuse in rural areas.
  - PCs can use the report to identify the most appropriate process, technology and/or treatment train for sewage treatment and reuse based on local conditions
  - PCs can use the report to support the integration of wastewater treatment and reuse in policies, strategies and plans

The report is complete and posted on the SWIM-SM website.

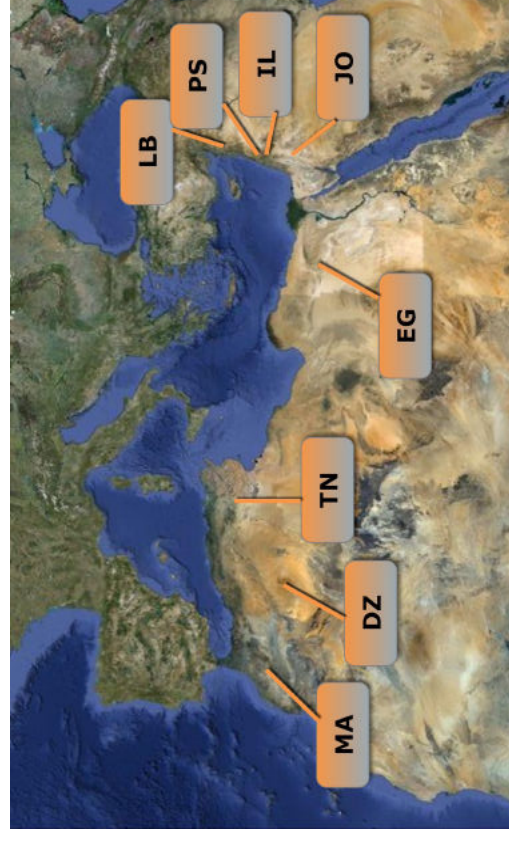
Progress: 100% activity completed

**Activity 3.1.2:** Preparation of sector(s)' guidelines on the applicability of the above-mentioned technologies (See Activity 3.1.1) within national water plans

**Objectives:** Prepare guidelines on integrating wastewater reuse including groundwater recharge and desalination using solar energy into national IWRM plans.

**Activity:** The guidelines for the integration of desalination using solar energy into national IWRM plans were prepared as 2 separate chapters in the BAT for desalination & wastewater reuse report produced in activity 3.1.1.

**Progress:** 100% activity completed



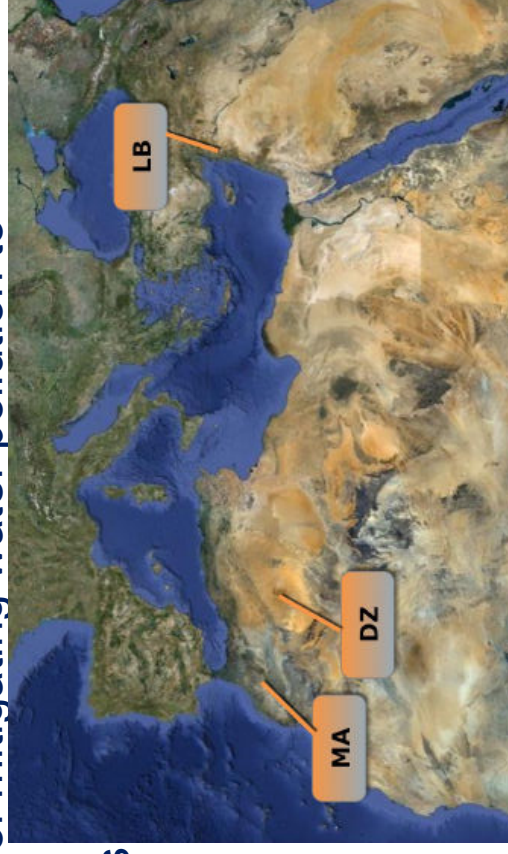
**Activity 3.1.3: Cost/benefit analyses of investments for mitigating water pollution in selected river basins in three countries, i.e. Oum Rabia (Morocco), Seibous River (Algeria), Litani River Basin (Lebanon), in collaboration with the Marseille Centre for Mediterranean Integration and H2020 MEHSIP, the Mediterranean Network of Basin Organisations, etc**

**Objective:** To conduct a cost/benefit analysis of mitigating water pollution to demonstrate the economic cost & benefits associated with pollution control to planners and policy makers in 3 countries.

**Activity:** None

**Estimated percent progress:** 0 %

**Projected date of completion:** end of June 2013

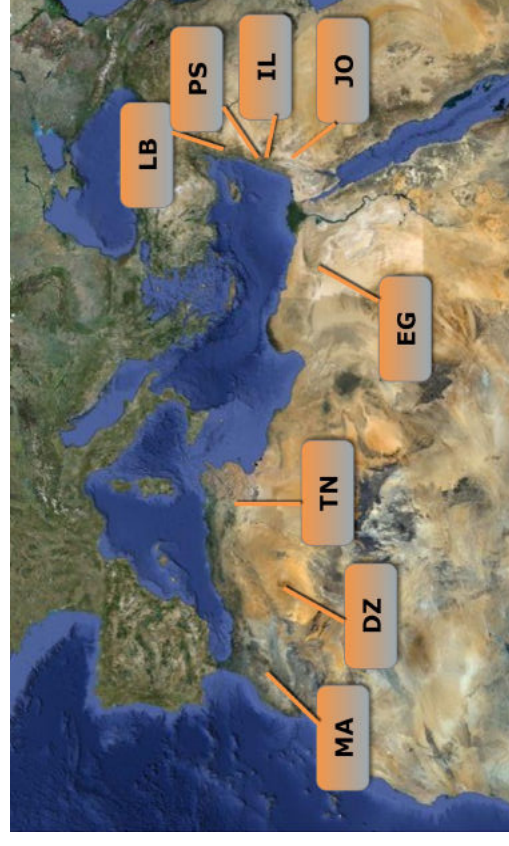


### **Activity 3.1.4: Strengthen implementation capacity of national water plans at local level with emphasis on financial sustainability**

**Objectives:** Develop a guidelines' manual to better understand the potential of private sector participation (PSP) in Water Services' Delivery at the local level (i.e. municipal, governorate, provincial or district, rural areas) with special focus on financial sustainability

**Activity:** The Terms of reference were prepared and approved. Work on this assignment commenced on 30 July 2012 and is currently in progress at an advanced stage.

**Progress:** 70%



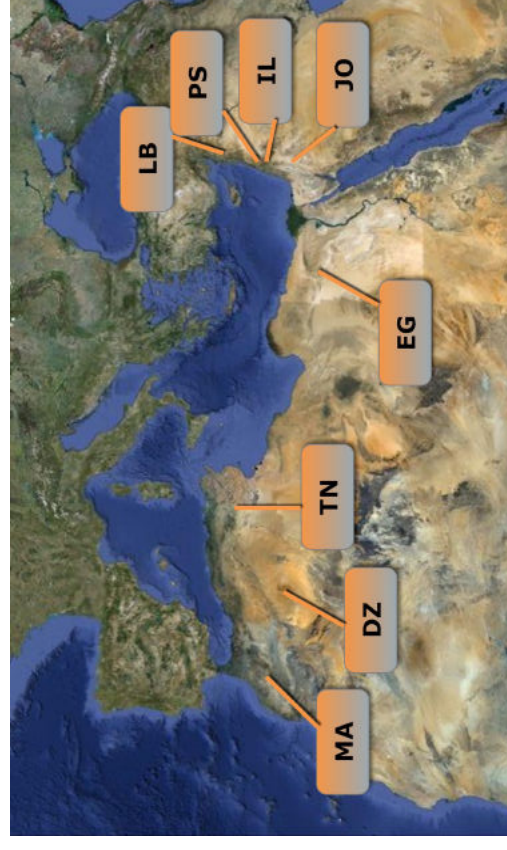


**Activity 3.2.1:** Participate and contribute with substantive inputs in the **Regional Conference on Advancing Non-Conventional Water Resources Management in the Mediterranean (Athens, 14-15 September 2011)** and organise back-to-back the **SWIM-SM Workshop on Sustainable Use of Non-Conventional Water Resources (Athens, 16 September 2011)** – see also under **WP1-Activity 1. 2.1**

**Objective:** Participate in the dialogue for advancing Non-Conventional Water Resources Management in the Mediterranean.

**Activity:** SWIM-SM participated and substantively contributed several power points and engaged in the discussions held during the Conference.

**Progress:** 100% activity completed



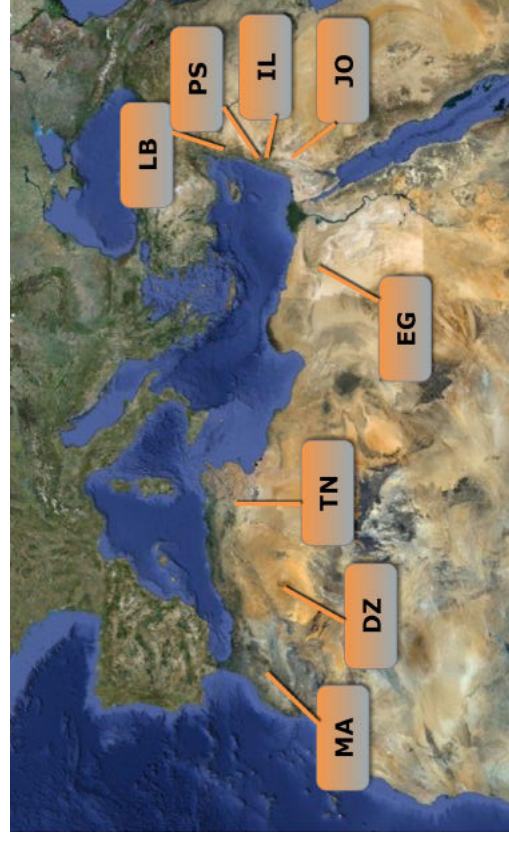
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### **Activity 3.2.2: Organisation of the Launching Regional Workshop of SWIM-SM programme in 7-8 December 2011, Brussels**

**Objective:** To launch officially the SWIM overall Programme and consult with NFP, LOs, regional organisations & institutions about the proposed SM Work Programme and the Demonstration projects' activities.

**Activity:** The Launching Workshop was organised and involved the participation of national water and environment authorities of PCs, relevant EC Services and regional stakeholder organisations, institutions and water programmes. The 2012 Work Plan under the 4 thematic pillars was discussed & the approved Demonstration Projects were presented.

**Progress:** 100% activity completed



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## **Activity 3.2.3 Participation of the key experts in regional events, ensuring visibility of the project and its activities.**

The following events were attended:

- 2nd Arab Water Forum (20-23 November 2011, Cairo - Egypt)
- Technical Meeting of the Arab Water Ministers (15-18 January 2012, Cairo – Egypt)
- CLIWASEC (15 February 2012, Munich – Germany)
- 6th. World Water Forum (12-17 March 2012, Marseilles - SWIM-SM was represented by GWP-Med)
- Regional Conference on Wastewater Purification & Reuse (28-30 March 2012, Crete – Greece)
- Meeting of the Steering Committee of the Horizon 2020 Initiative, and Meeting of the H2020 Capacity Building Component, 18-19 April 2012, Barcelona, Spain

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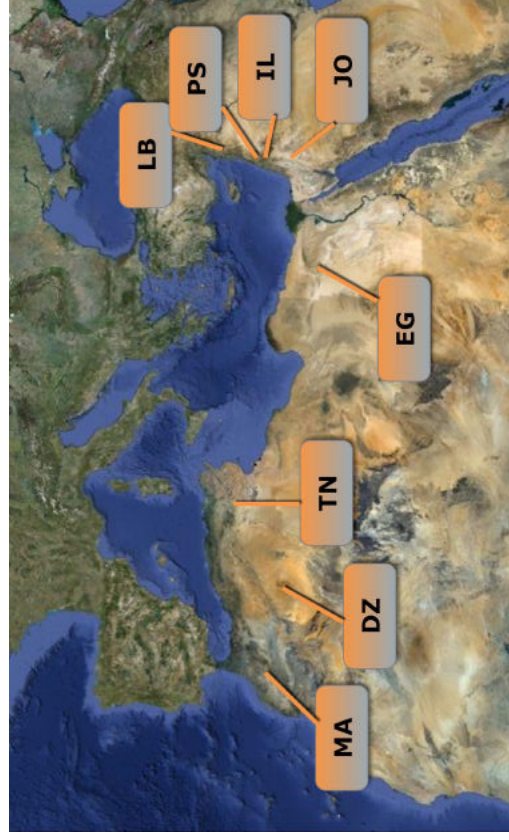
- 2nd Egyptian Dialogue on 2030 National Strategy for Wastewater Re-use in Egypt; 29th of April, 2012, Cairo, Egypt
- Meeting of the Steering Committee of the GEF MAP/UNEP MedPartnership, 15-16 May 2012, Istanbul, Turkey (SWIM-SM was represented by GWP-Med)
- Meeting of the Steering Committee of the GEF Project on Climate Variability and Change in the Mediterranean, 17 May 2012, Istanbul, Turkey (SWIM-SM was represented by GWP-Med)
- Rio + 20 (20-22 June 2012, Rio de Janeiro – Brazil – SWIM-SM was represented by GWP-Med)
- Coordination Meeting of International Organisations and Regional Initiatives on Climate Change, 5 July 2012, Brussels, invited by EC DEVCO
- Stockholm World Water Week (26-31 August 2012, Stockholm – Sweden – SWIM-SM represented by GWP-Med)
- Annual Multi-Stakeholder Forum of the EU Water Initiative, 29 August 2012, Stockholm during the World Water Week (SWIM-SM was represented by GWP-Med)

**Progress:** 100% on going activity

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## Activity 3.3.1: Assist with the implementation of the draft SWM and the elaboration of the Action Plan

Activity temporarily stalled due to political reasons.



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HORIZONTAL  
ACTIVITY

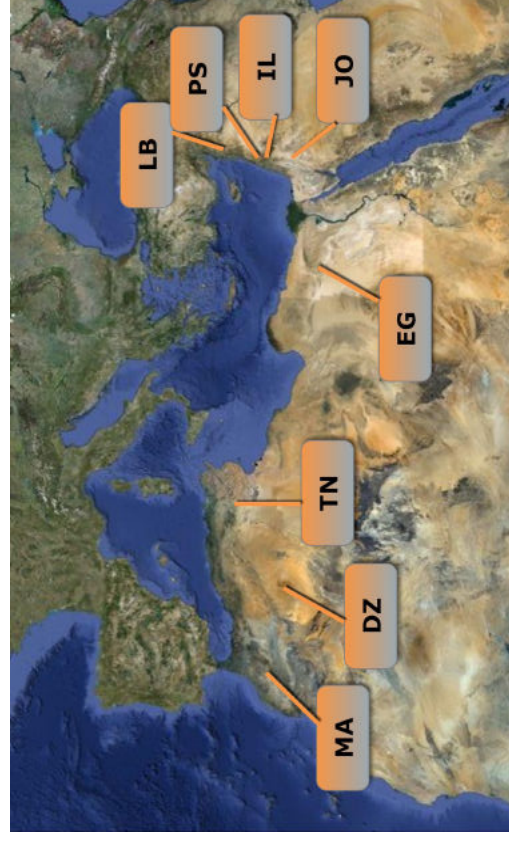
## Activity 3.3.2: Close operational linkages with H2020

**Objective:** To coordinate & interlink with activities undertaken by H2020 Initiative in order to bring an added value and avoid overlapping.

**Activity:**

- Planning for a set of capacity building activities in coordination with H2020 CB/MEP;
- Envisaging collaboration with H2020 MEHSIP on cost/benefit analyses of investments for mitigating water pollution.
- Coordinating with the ENPI SEIS Project and communicating with SWIM-SM FPs in relation to the Workshop on Water Accounts and Statistics for Med Countries in Beirut;
- Participation in the 5th H2020 Steering Group Meeting, the 3rd H2020 Capacity Building Sub group Meeting and H2020 RMR working Group Meeting in Barcelona.

**Progress:** 100% an on-going activity.



**Activity 3.3.3: Develop a financial incentive system that governments could promote for water users to save water, improve water efficiency and adopt innovative technologies as a tool for non-regret actions to climate change adaptation**

**Objective:** To develop financial incentives and economic tools to promote water conservation as a no-regret means for adaptation with climate change.

**Activities:** None

**Progress:** After consultation with country stakeholders & input received during different SWIM-SM events, the activity's timing & implementation was questioned and thus, the activity has been deleted from the Work plan. It was noted that some SWIM governments are reluctant to address water financial mechanisms at this stage due to public rejection and potential political sensitivities.

**Projected date of completion:** Deleted

