



Sustainable Water  
Integrated Management (SWIM) -  
Support Mechanism



Project funded by  
the European Union

*Water is too precious to waste*

**Session II: Progress report Presentation and Discussion**  
**17 October 2012, Brussels**



# **Achievements Work Package 1: Water governance and mainstreaming**

# Achievements Work Package 1

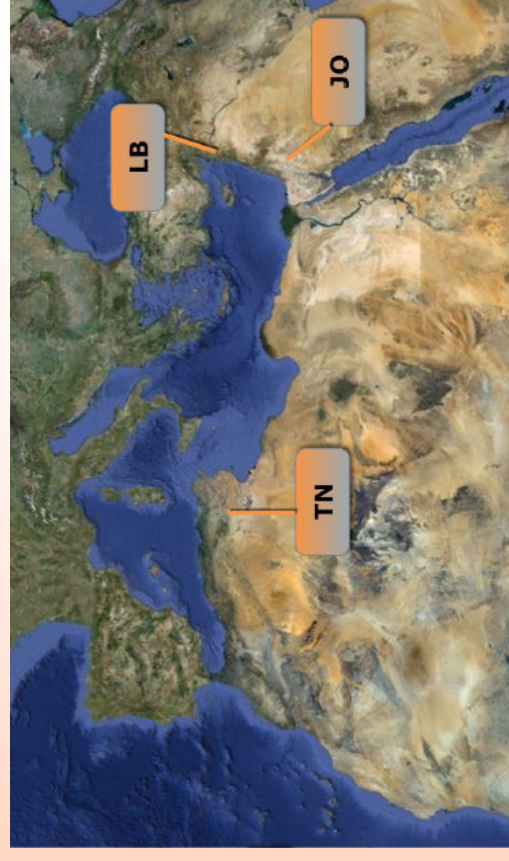
PROF. HOSNY KHORDAGUI

PILLAR D

## Activity 1.1.1 : Regional review & policy dialogue on National Water Plans and/or Strategies

**Objective:** To review of the situation, assess achievements, constraints & challenges of the current water plans and/or strategies, identify opportunities and formulate recommendations & policy options towards effective implementation of water plans based on a detailed analysis in 3 PCs. To hold a 2-day regional expert workshop to promote the policy dialogue on IWRM and to validate the review & suggested policies.

**Activity:** The assessment was conducted in collaboration with UNEP-DHI Centre for Water and Environment, missions were undertaken, the report produced, reviewed and discussed in Athens in an expert group meeting (13-14 June 2012, Athens, Greece). The report was amended and finalised incorporating expert's comments.



# Achievements Work Package 1

PROF. HOSNY KHORDAGUI

## Main Outcomes:

- Water plans were assessed, achievements, constraints & challenges identified and analyzed for their main root causes and solutions were recommended.
- A proposed series of measures & policy options to expedite implementation of IWRM principles with emphasis on mainstreaming water management in water relevant sectors was developed.
- A dialogue was established between national water & environment policy makers including selected national and international experts.

Progress: 100% activity completed

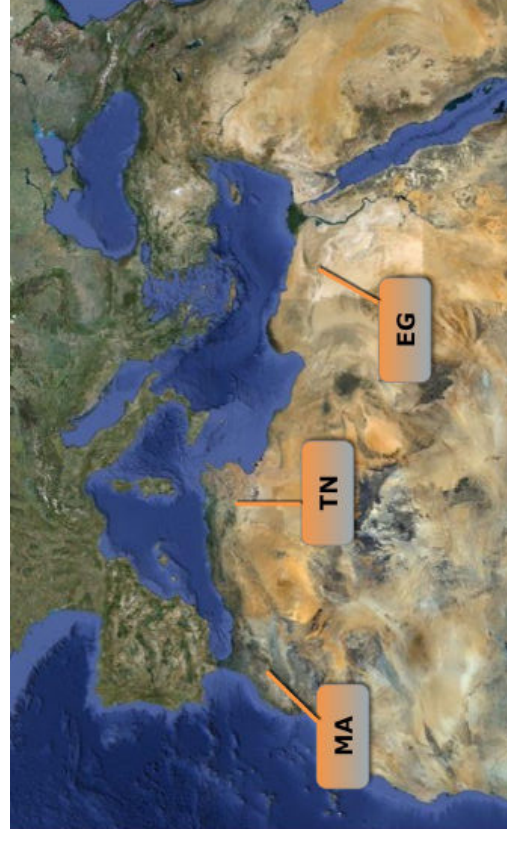


### **Activity 1.1.2: Targeted technical assistance for the elaboration of a Wastewater Strategy and/or Action Plan in Egypt, Morocco and Tunisia**

**Objective:** Provision of support to selected countries (Egypt, Morocco & Tunisia) to enhance the development and implementation of WW national strategies, plan of action, associated policies through the preparation of a gap analysis, and recommendations of policy options and opportunities for advancing missing priority elements. The activity includes the organisation of a **one-day national consultation meeting involving all related stakeholders in the 3 countries.**

**Activities:** ToR was prepared & approved by the EC. An international NKE was mobilised, together with 3 national NKEs to support the international NKE in the data collection. Activities on this assignment commenced on 2 August 2012.

**Progress:** 40%



# Achievements Work Package 1

## PILLAR D

MS.SUZAN TAHA

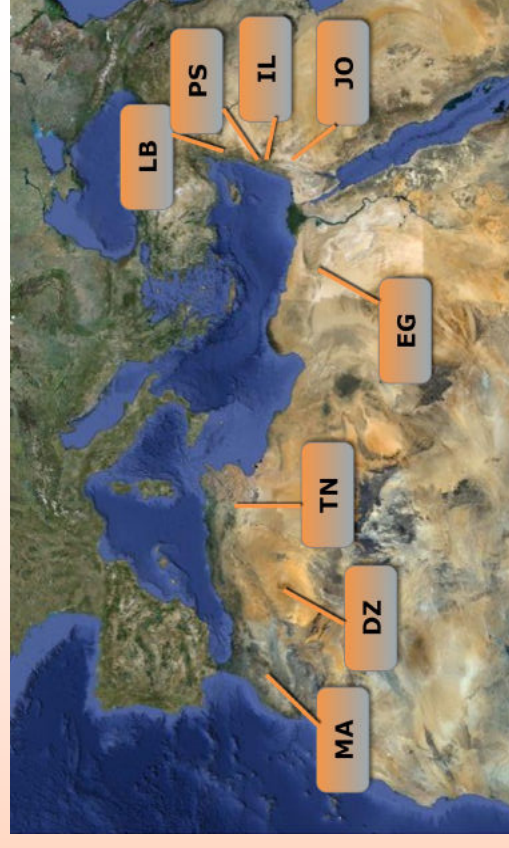
### Activity 1.1.3: Identify status of WUAs in the Project Countries (PCs)

#### Objectives:

Illustrate the range of experiences in irrigation water users' participation in the PCs Identify policy options to improve the efficiency of WUAs, including targeted activities by SWIM-SM.

#### Activities:

- Regional assessment on the Status of WUAs in the region using cases studies from 4 countries
- Organized a regional experts' group (EG) workshop to:
- Review & validate the findings of the assessment;
- Promote sharing of experiences & Best Practices (BPs)
- identify the gaps & priority actions including capacity building (CB) & training



# Achievements Work Package 1

MS. SUZAN TAHA

## Outcome includes:

- Challenges and constraints in WUAs establishment and operationalization identified
- Priority Capacity Building (CB) needs in the region - identified
- Priority actions to be undertaken by SWIM-SM including:

## Main Recommendations

1. Institutional strengthening for the irrigation agencies
2. Establish clear legal status enabling WUAs financial autonomy, enforcing sanctions and dispute resolution
3. Establishment of M&E systems for monitoring PIM, irrigation water suppliers and users sanctioning non-conforming behaviours
4. Increase WUAs financial capacities
5. Capacity Building for irrigation agencies, WUAs and farmers
6. Develop and Strengthen WUAs Federations to provide a structure for participation in WRM

Progress: 100%

### **Activity 1.2.1 Organise one day Workshop on Non-Conventional Water Resources Management**

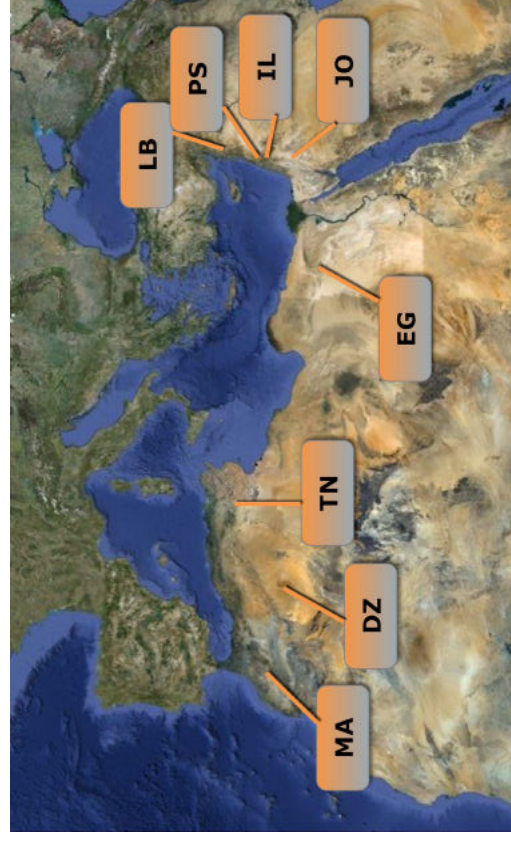
**Objective:** Discuss with PCs in a one day workshop the regional priorities on wastewater reuse and desalination to ensure alignment of the project priorities & activities with regional needs.

**Activity:** Workshop was held in Athens, Greece, on 16 September 2011, back-to-back with the Regional Conference on Advancing Non-Conventional Water Resources Management (14-15 September).

#### **Main Outcomes:**

- Concept note on NCWR was amended to incorporate feedback from the participants
- Regional priorities identified.
- ToR for a core expert group on desalination
- prepared & 5 international experts were identified.

**Progress:** 100% Activity completed





Dr. SHERIF ARIF

### Activity 1.2.2 : Updating Costing of Environmental degradation due to water pollution

**Objectives:** To estimate in monetary terms the degradation, averted and remedial costs associated with watershed management in two basins : Oum Er-Rbia in Morocco and Medjerda in Tunisia.

#### **Description:**

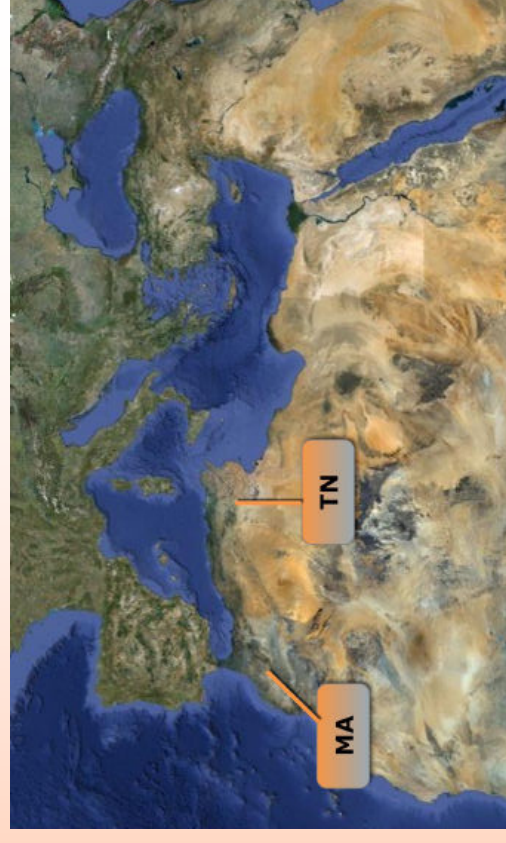
Estimating the cost of environmental degradation in monetary terms

- **Quantifying the impacts of degradation** on different water uses (e.g., reduced agricultural production due to water salinity and waterlogging, Dam siltation and riverbed sedimentation due to upstream land use, climate change variability during wet and dry seasons)
- **Estimating the impacts in monetary terms** (e.g., cost of soil productivity losses, ill health and premature death, loss of tourism, etc.)

#### Cost Benefit or Cost Effectiveness Analyses of

##### Remedial Actions

- **Preparation of Scenarios** with various abatement investment alternatives.
- **Selection** of various abatement investment alternatives with positive benefit/cost ratio or cost effective interventions.
- **Provide recommendations for implementing investments** in specific areas of the watershed taking into consideration overall economic and environmental benefits linked to these alternatives in the selected watershed.



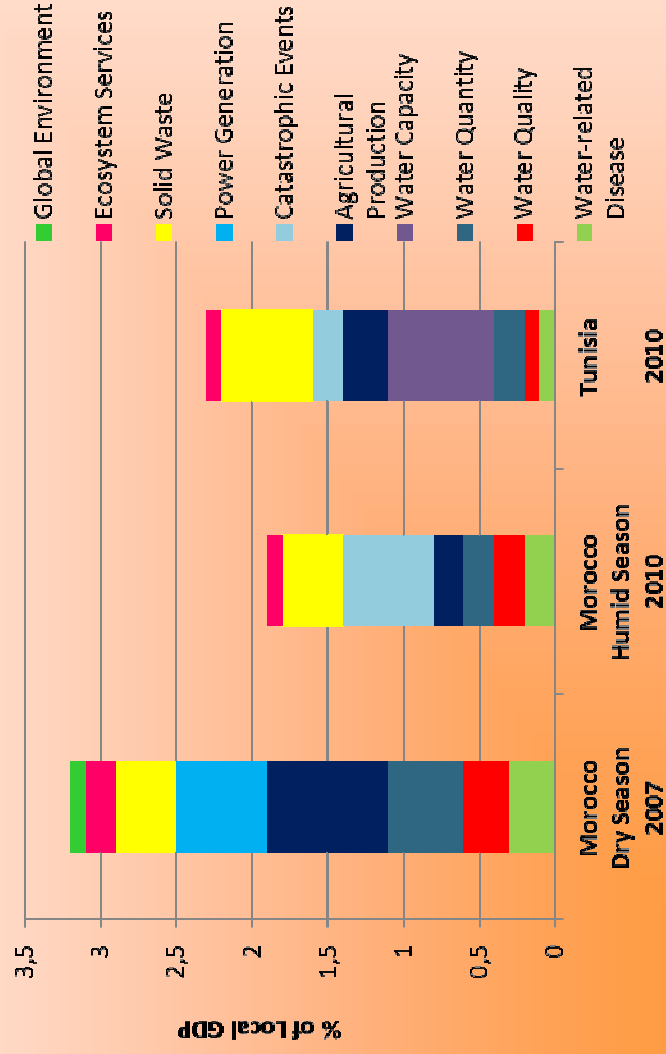
# Achievements Work Package 1

CAWD in Morocco: 2.4%-4.1% of GDP ( dry season)  
( US\$ 360-615 million)

1.5% -2.3% of GDP ( humid season)  
( US\$ 225-345 million)

CAWD in Tunisia: 1.6-2.6% of GDP( US\$ 100-125 million)

## River Basin Environmental Degradation (% of Local GDP)



- **Global environment:** GHG emissions due to fossil fuel substitution to hydropower during drought years
- **Ecosystem services:** reduction ecological services due to water quality or scarcity
- **Solid waste:** not the whole solid waste chain has an effect on water quality (waste in basin and leachate) but it is however considered in the analysis (from cradle to grave)
- **Power generation:** loss of hydropower generation during droughts
- **Catastrophic events:** floods in terms of human and physical toll
- **Agricultural production:** loss of productivity (salinization), erosion, etc.
- **Water quality:** water pollution from various sources: salinization, BOD, chemicals, nitrates, leachate, etc.
- **Water quantity:** forgone opportunities such as agriculture, livestock, etc.
- **Water capacity:** dam siltation (reduction of dam time life)
- **Water-related diseases:** the burden of water-related disease such as diarrheas in terms of Under 5 premature mortality and morbidity.

# Achievements Work Package 1

## Main Outcomes (cont'ed):

### PC Benefits

- Investment policies based on cost/benefit and cost effectiveness analyses of investments taking into consideration environment externalities Decision-makers at national and local levels will have better tools to formulate adaptive policy-response.
- Environment and water ministries adopt a tool for discussing the importance of environmental protection in economic terms, in the same “language” as is used by ministries of finance, economy or planning.

### Achievements: 65%

- Identification mission in Morocco and Tunisia completed in August-September 2012
- Data collection completed.
- Analysis is under ways till October 30 2012
- Draft reports Available for Consultation as of November 20, 2012
- Consultation in Morocco and Tunisia: December 18-22, 2012.

# Achievements Work Package 1

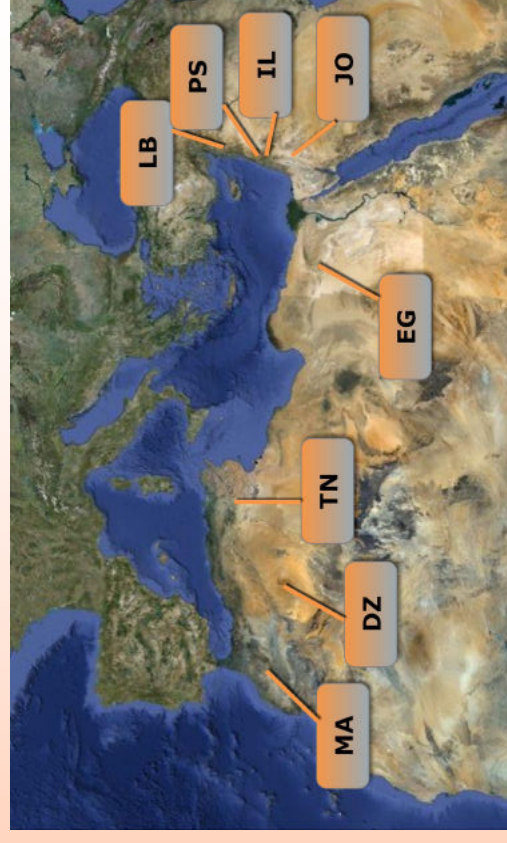
## PILLAR C

PROF. HOSNY KHORDAGUI

### Activity 1.2.3 : Development of guidelines for mainstreaming no regret actions in IWRM policies, programs and projects at regional level

**Objective:** To develop a stepwise guideline on mainstreaming water sector CC no-regret actions into IWRM national policies and plans.

**Activity:** ToR prepared, amended, NKE identified, approved by EC and NKE engaged. Guidelines developed, reviewed and finalized.





# Achievements Work Package 1

## **Main Outcomes:**

- An overview of the current policy framework for the water sectors to adapt to CC.
- A guideline on how to mainstream no-regret adaptation measures into IWRM plans through:
  1. Situational analysis aiming to assess the current National institutional setup.
  2. Creating an enabling environment for mainstreaming adaptation into IWRM plans
  3. Planning & developing policy structure to secure integration of CC considerations into national public policy.
  4. Developing institutional structure conducive to mainstream adaptation into IWRM.
  5. How (SEA) can help assess which strategy is most sustainable under different CC scenarios.

**Progress:** 100% activity completed

### **Activity 1.2.4 : Identification and catering of no-regret actions for the water sector and elaboration of policy recommendations for advancing action**

**Objective:** To identify and cater no-regret actions for the water sectors to adapt to projected impacts of CC with special emphasis on drought and flood risks management

**Activity:** ToR prepared, amended and NKE identified. SWIM was advised by the EC to postpone the activity until 2013 to ensure synergies with other ongoing EC developing programs (e.g. ENPI South CC etc)

**Progress:** 15%



# Achievements Work Package 1

## Activity 1.2.5 :Support to planned Inter-ministerial Committee on water at national level in synergy with GEF Med-Partnership

**Objective:** To assist promoting inter-ministerial coordination at national level in PCs in such need, in support to the related GEF / MAP UNEP Med-Partnership's initiative

**Progress:** No mandate given by the EC for this activity – Probably will be activated in future reporting periods, according to related developments also within GEF / MAP UNEP Med-Partnership

**Progress:** 0%

