



Sustainable Water Integrated Management - Support Mechanism (SWIM- SM)

Project funded by the European Union

## INFORMATION NOTE

**Regional training workshop on the identification and development  
of climate change no-regret actions in the water sector**

**3-5 October 2012  
AMMAN – JORDAN**



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## 1. Background

Within the scope of work package 2 (WP2) – "Capacity Building" Activity 2.2.2., the EU-funded "Sustainable Water Integrated Management – Support Mechanism SWIM-SM" project is conducting a **3-day** regional training for national and local water practitioners from the Project countries (PCs) with part of the training provided by representatives from the PCs experienced in adaptation planning and implementation of no/low regret actions.

The impacts of CC on water resource in Southern Mediterranean Countries (SMCs) might affect a wide range of socio-economic and environmental sectors including agriculture, health, food security, public safety, biodiversity, eco-tourism and hydropower production. SMC will be required to carry out more adjustment of its water resources than in other region of the World, as over the three quarters of its resources are being used for human purpose. In general, the impacts of CC on the water sector in the SMCs will undermine national development plans, and affect human security and livelihoods)

At present, many SWIM counties such as Morocco, Tunisia, Egypt, Lebanon and Israel have prepared strategic documents or plan to address climate change on particular sectors. Adaptation options of the water sector to climate change are strongly related to the level of uncertainty in which future climate change will happen. No regret actions are likely to occur irrespective on how the climate change would vary and therefore the availability of climate change information is not crucial. No regret actions address the problem associated with the present climate change variability while at the same time build the adaptive capacity for addressing the impact of future climate change.

No-regrets actions are precautionary measures that can be justified from socio-economic and environmental perspectives whether climate change take place or not. Examples of no regret actions are: Dissemination of climate information and access to early warning systems, conservation of agricultural practices that protect soils against erosion and runoff and conserve water; water use efficiency and improved water delivery for irrigation systems, improve access to new crop varieties which would increase the overall production and would diminish risks from droughts and floods.

## 2. Introduction

This regional training course is organized within the framework of the SWIM-SM in cooperation with the Horizon 2020 Capacity Building component. It is organized by the Global Water Partnership-Mediterranean (GWP-Med), member of the SWIM-SM consortium. Its duration is 3 days and the language of the training course will be English, with French and Arabic simultaneous translation.

## 3. Objectives

The **overarching objective** of the training is to develop the capacity of PCs to undertake immediate precautionary measures towards the adaptation of the water sector to potential negative impacts of climate change.

In response to the most imminent challenges arising from the fact finding missions undertaken by SWIM-SM during the inception phase of the project, the training shall address the following **specific learning objective**:

- 1) Raise the awareness of the participants on the potential impacts of climate changes on water resources in the region, its socio-economic and environmental consequences,
- 2) Increase their understanding on the degree of vulnerability particularly to increasing drought and flood events,
- 3) Make the case for adopting the no-regret actions approach as the appropriate and immediate means for the water sector to adapt to climate change,
- 4) Introduce appropriate approaches for planning, strategizing and developing no-regret actions measures, plans and policies, with a special focus on drought and flood management-



- 5) Review capacity, political commitments and measures needed for the creation of an enabling environment for the implementation of no-regret actions including institutional, legislative and financial needs
- 6) Identify and discuss appropriate approach and practices for mainstreaming no-regret actions into IWRM policy frameworks
- 7) Identify the optimal communication and public participation strategies to enhance the role of communities in designing and implementing no-regret water management measures.

#### **4. Course Structure**

The course will follow the logical sequence of the generic climate risks management framework. It will be structured around the following topics:

##### **Part I: Risk identification**

- Session 1: Identifying climate change impacts on water resources in the Southern Mediterranean Region

##### **Part II: Risk Assessment**

- Session 2: Assessing climate change risks on environment and development

##### **Part III: Risk Management**

- Session 3: Addressing climate change risks through no-regrets actions
- Session 4: Building climate resilience practices in water management
- Session 5: The role of economic instruments in no-regrets adaptation
- Session 6: Bridging the capacity gap
- Session 7: Strengthening the enabling environment
- Session 8: Mainstreaming no-regrets strategies into IWRM frameworks

##### **Part IV: Risk Communication**

- Session 9: Effective risk communication to enhance public awareness and support

#### **5. Target Group**

The training is of basic level addressing effective concepts and practices for planning and implementing no-regret climate resilient options in the water sector

The targeted audience for the workshop is middle level professionals from the PCs, including government officials, water resources practitioners, environmentalists, planners, stakeholders, involved in water planning and management activities.

#### **6. Methodology and structure**

The training is intended to be participatory and interactive, making use of professional learning tools such as:

- Presentations by trainers and by the participants
- Structured case study analysis and solutions (workgroups involving trainees)
- Personal and/or National perspectives





The training will take into account the heterogeneity in the climate change adaptation experience in the region and will be flexible to accommodate pressing interests that are identified during the sessions.

Copies of lecture material and a full set of documents will be prepared by the course trainers and provided to all participants.

A certificate of attendance will be awarded to all participants at the end of the course

## **7. Resources for participants**

Resources that are intended to be provided to participants are:

- PowerPoint presentations
- Reference materials
- groups discussions,
- Field visits

## **8. Instructors of the course**

The instructors of the course will be:

Stéphane SIMONET, Course leader, Senior Water and Climate Change Consultant, France. His involvement has already been approved by the European Commission as part of the ToR whereupon Mr Simonet was approved as non-key expert to undertake the provision of technical assistance to selected countries for the identification and development of no-regret actions through training.

Senior Water Expert, to cover socio-economic and environmental aspects of CC no-regret actions. To be involved for 5 mandays (3 mandays for the presence in the course as instructor and maximum 2 days of traveling to and from Amman Jordan)

Senior Water Specialist, to cover technical aspects of CC no-regret actions. To be involved for 5 mandays (3 mandays for the presence in the course as instructor and maximum 2 days of traveling to and from Amman Jordan)

## **9. Learning outcomes of the training course**

- At the end of the training, the participants will be familiar with the nature and extent of the risks caused by climate change on water resources and related development sectors in the MENA region as well as policy options that help identify and implement successful and sustainable no-regrets strategies
- Participants will have an increased knowledge about the suitable technical, institutional, policy, legal, financial and social approaches that contribute to deal more effectively with impacts of current climate variability and change on the water sector
- The participants will be in an enhanced position to transmit the knowledge acquired in their respective countries.
- New contacts with persons and institutions engaged in similar activities useful for networking and future exchange of professional information and activities.



10. Course Schedule/Curriculum

From	To	Day 1	Method/Speaker or Trainer
9:00	9:30	<b>Opening Remarks</b> <ul style="list-style-type: none"> <li>• Welcoming Participants</li> <li>• Introduction</li> <li>• Overview of SWIM-SM</li> <li>• Briefing on course objectives, agenda and logistical issues</li> <li>• Presentation of the participants and expectations</li> </ul>	SWIM Team Leader xxxx
9:30	11:00	<b>Session 1: Identifying climate change impacts on water resources in the Southern Mediterranean Region</b> <ul style="list-style-type: none"> <li>• Presentation on: <ul style="list-style-type: none"> <li>- Climate change and the hydrological cycle</li> <li>- Regional climate change trends, hazards and potential impacts on water resources in the SWIM countries</li> <li>- Expected effects on drought and flood patterns</li> </ul> </li> <li>• Q&amp;A and moderated discussion: <ul style="list-style-type: none"> <li>- How does climate change look like in your country?</li> <li>- What are the observed changes in hydrology?</li> </ul> </li> </ul>	Stéphane Simonet xxx
11:00	11:30	<b>Coffee Break</b>	
11:30	13:00	<b>Session 2: Assessing climate change risks on environment and development</b> <ul style="list-style-type: none"> <li>• Presentation on: <ul style="list-style-type: none"> <li>- Environmental and socio-economic consequences of climate change impacts on water sector in PCs</li> <li>- Main underlying factors of vulnerability and risks</li> <li>- Tools and resources to assess climate change risks</li> </ul> </li> <li>• Q&amp;A and moderated discussion: <ul style="list-style-type: none"> <li>- How does climate change make water management different in your context?</li> <li>- What are the policy implications?</li> </ul> </li> </ul>	
13:00	14:00	<b>Lunch Break</b>	
14:00	15:30	<b>Session 3: Addressing climate change risks through no-regrets actions</b> <ul style="list-style-type: none"> <li>• Presentation on: <ul style="list-style-type: none"> <li>- Water security and climate resilient development in SMCs</li> <li>- Water management under the challenge of uncertainty</li> <li>- Making the case for no-regret actions</li> </ul> </li> <li>• Q&amp;A</li> </ul>	
15:30	16:00	<b>Coffee Break</b>	
16:00	17:00	<b>Session 3 (continued)</b> <ul style="list-style-type: none"> <li>• Presentation on: <ul style="list-style-type: none"> <li>- Developing appropriate policy options</li> <li>- Current regional status and experiences</li> </ul> </li> <li>• Q&amp;A and moderated discussion key constraints, challenges and opportunities for developing no-regrets actions in SWIM countries</li> </ul>	





From	To	Day 2	Method/Speaker or Trainer
9:00	9:30	Review and conclusions of Day 1 Briefing on Day 2	Rapporteur
9:30	11:00	<b>Session 4: Building climate resilience practices in water management</b> <ul style="list-style-type: none"> <li>• Presentation on :               <ul style="list-style-type: none"> <li>- Review of relevant no-regrets measures for managing climate-induced water scarcity, drought/flood risks, altered water quality, etc.,</li> <li>- Regional insights on measures preferably implemented by PCs</li> <li>- Criteria and tools for developing balanced portfolios of no-regrets actions</li> </ul> </li> <li>• Q&amp;A and moderated discussion on key aspects of the measures presented</li> </ul>	
11:00	11:30	<b>Coffee Break</b>	
11:30	13:00	<b>Session 5: The role of economic instruments in no-regrets adaptation</b> <ul style="list-style-type: none"> <li>• Presentation on:               <ul style="list-style-type: none"> <li>- Needs and benefits of economic and financial instruments (E&amp;FIs) for adaptation</li> <li>- Typology of instruments, main purposes and features</li> <li>- Conditions for success, and good practice examples from PCs</li> </ul> </li> <li>• Q&amp;A and moderated discussion on main constraints and factors for successful implementation of E&amp;FIs</li> </ul>	
13:00	14:00	<b>Lunch Break</b>	
14:00	15:30	<b>Session 6: Bridging the capacity gap</b> <ul style="list-style-type: none"> <li>• Presentation on:               <ul style="list-style-type: none"> <li>- The adaptive capacity framework</li> <li>- Approaches and tools for assessing and addressing capacity development needs</li> <li>- Good practice examples</li> </ul> </li> <li>• Q&amp;A and practical exercise on identifying priority capacity development needs by use of quick self-assessment matrix</li> </ul>	
15:30	16:00	<b>Coffee Break</b>	
16:00	17:00	<b>Case study and group work</b> <ul style="list-style-type: none"> <li>• Presentation of a case study</li> <li>• Participants will be organized in break out groups</li> <li>• Each group will have to assess the most critical climate change risks on water and develop a balanced portfolio of no-regrets responses</li> </ul>	<b>Working groups</b>  <b>Participants</b>
17:00	17:30	<ul style="list-style-type: none"> <li>• Presentation in plenary by Group representatives</li> <li>• Discussion of results</li> <li>• Consolidation, reflection and uptake</li> </ul>	<b>Working groups</b> <b>Participants</b>



From	To	Day 3	Method/Speaker or Trainer
9:00	9:30	Review and conclusions of Day 2 Briefing on Day 3	Rapporteur
09:30	10:30	<b>Session 7: Strengthening the enabling environment</b> <ul style="list-style-type: none"> <li>• Presentation on:           <ul style="list-style-type: none"> <li>- Conditions for political commitments and support</li> <li>- Suggested legal and institutional reforms</li> <li>- Development of adequate financing strategies</li> </ul> </li> <li>• Q&amp;A and moderated discussion on key institutional, policy and financial barriers impeding no-regrets precautionary actions in SWIM countries</li> </ul>	
10:30	11:00	<b>Coffee Break</b>	
11:00	12:00	<b>Session 8: Mainstreaming no-regret strategies into IWRM frameworks</b> <ul style="list-style-type: none"> <li>• Presentation on           <ul style="list-style-type: none"> <li>- Linkages between IWRM and climate change adaptation</li> <li>- Approaches and tools for mainstreaming no-regrets options into IWRM policies, plans and programmes</li> <li>- Project Country examples and experiences</li> </ul> </li> <li>• Q&amp;A and Moderated discussion on success-factor for effective mainstreaming</li> </ul>	
12:00	13:00	<b>Session 9: Effective risk communication to enhance public awareness and support</b> <ul style="list-style-type: none"> <li>• Presentation on :           <ul style="list-style-type: none"> <li>- Rationale for public awareness and communication in climate change adaptation</li> <li>- Overview of available communication instruments and measures</li> <li>- Regional examples from the drought and flood management sector</li> </ul> </li> <li>• Q&amp;A and moderated discussion on how to improve risk communication in the PCs</li> </ul>	
13:00	14:00	<b>Lunch Break</b>	
14:00	15:00	<b>Case study and group work (with working tea/coffee)</b> <ul style="list-style-type: none"> <li>• Presentation of a case study on IWRM planning</li> <li>• Participants will be organized in break out groups</li> <li>• Each group will have to identify appropriate entry points and measures to integrate no-regrets strategies into IWRM processes</li> </ul>	<b>Working groups</b> <b>Participants</b>
15:00	15:30	<ul style="list-style-type: none"> <li>• Presentation in plenary by Group representatives</li> <li>• Discussion of results</li> <li>• Consolidation, reflection and uptake</li> </ul>	<b>Working groups</b> <b>Participants</b>
15:30	16:00	<b>Closing Session:</b> <ul style="list-style-type: none"> <li>• Wrap up and way forward</li> <li>• Evaluation and certification</li> </ul>	

### 11. Proposed Location and Date

The workshop is planned to be held in Amman Jordan, (**exact location to be communicated**), for three days from 3-5 October 2012. Planned arrival in Amman is 2<sup>nd</sup> of October and departure is 6 October.



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