



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



Project funded by
the European Union

Water is too precious to waste

AN INTRODUCTION TO THE SWIM PROGRAMME

SWIM Launching Workshop, 7 December 2011, Brussels

Presented by: Dr. Sherif Arif, Team Leader SWIM-SM

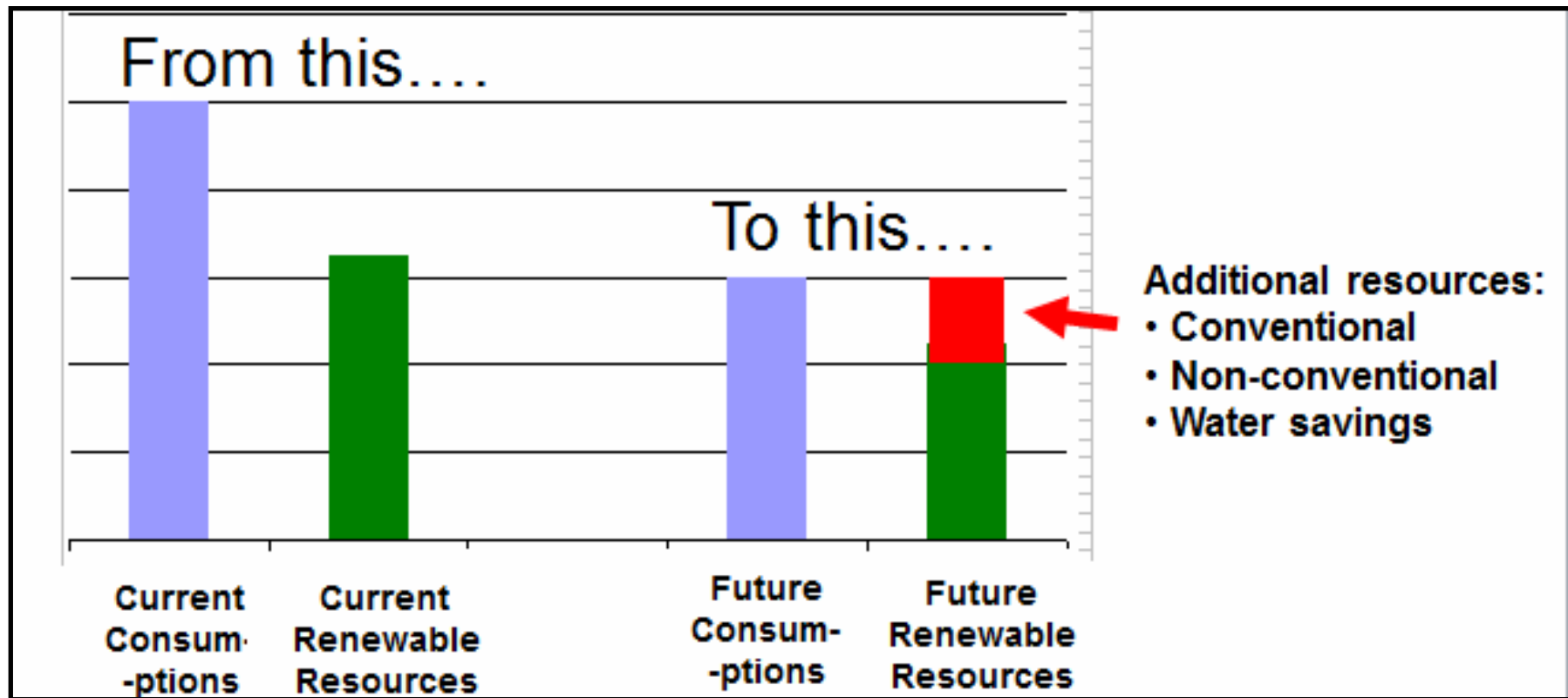
Water situation in the Southern Mediterranean Region: a Recap

- Renewable water resources withdrawals are among the highest in the world;
- Per capita consumption in some countries is among the lowest in the world;
- Most of water withdrawals are in agriculture, ranging from 70-90% and are among the highest in the world;
- Cost of degradation due to water pollution is high (0.6-1.2% of GDP) and along the coastline is even higher (from 7-8% of GDP in Algeria and Egypt to 2-4% in Morocco and Tunisia).

→ Is this Sustainable?

The most plausible solutions...

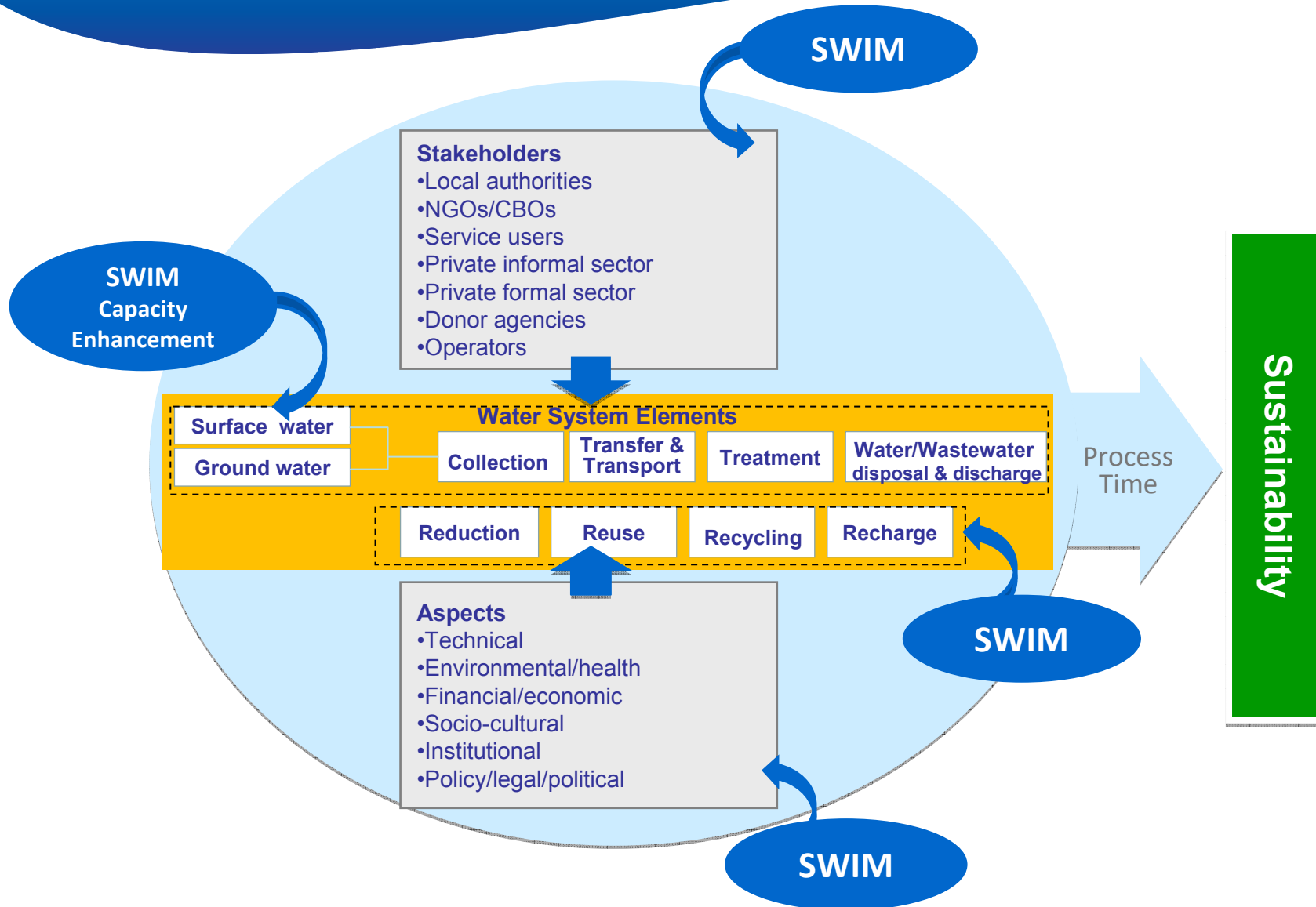
MANAGE WATER DEMAND AND ADD WATER SUPPLIES



Source: P. Montovani (2008), Climate Change and Water in the Arab World, 13th IWRA World Water Congress

THE MOST PLAUSIBLE SOLUTIONS...

Manage Water Holistically, in an Integrated Manner that leads to Sustainability



and...the EC-Funded Sustainable Water Integrated Management (SWIM) Project can Contribute to the Solution

Support Mechanism
6.7 Mi Euro, 2011-2014
SWIM-SM



Demonstration Projects
15 Mi Euro

Overall objective:

To promote actively the extensive **dissemination** of sustainable water management policies and practices in the region given the context of increasing water **scarcity**, combined pressure on water resources from a wide range of users and **desertification** processes, in connection with **climate change**.

The SWIM Program Bridges Partners Countries & EC Initiatives Related to Water & Pollution

SWIM Partner Countries:

Algeria, Egypt, Israel, Jordan, Lebanon, Morocco, the occupied Palestinian territory, Syria and Tunisia

Sustainable Water Integrated Management (SWIM)

Mediterranean Component of EU Water Initiative (MED EUWI)

UfM Draft Strategy for Water in the Mediterranean (SWM)

Horizon 2020 Initiative to de-pollute the Mediterranean Sea



Dynamic interaction

And it is closely linked to the Themes of the Demonstration Projects

Four Demonstration projects are under negotiations. They address:

- **Water Governance**
- **Water and Climate Change**
- **Water Demand Management and Efficiency, including non-conventional water resources**

SWIM-SM Specific Objectives

- Raise awareness of decision-makers & stakeholders in the Partners Countries (PCs) on the imminent threats on water resources, the need to implement more sustainable water consumption models and the adoption of possible solutions to meet the existing and forthcoming challenges;
- Support PCs in designing and implementing sustainable water management policies at the national and local levels, in liaison with existing relevant initiatives in the area;
- Contribute to ensuring institutional reinforcement and the development of the necessary planning and management skills, in line with Horizon 2020 objectives, and facilitate know how transfer.

SWIM Support Mechanism: 6 Work Packages

Water Governance and Mainstreaming: Focus on Governance Structures and Mainstreaming Water in Economic Sectors

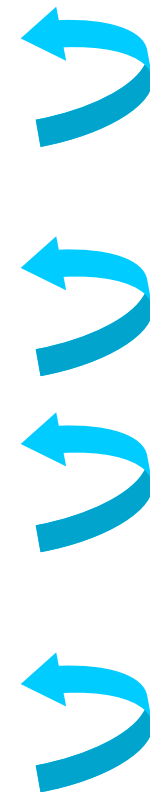
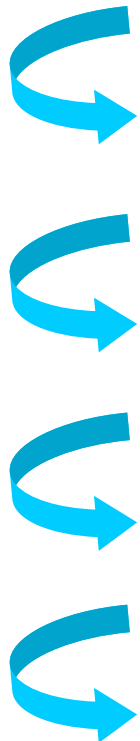
Capacity Building: Focus on Water Institutions, Empowerment and Enhancement of Centers of Expertise

Water Management Plans' application: Focus on South-South Exchange of experiences among water intensive sectors

Identification of good practices and success stories in the region and beyond: Focus on Lessons Learned in Water Management and De-pollution of the Mediterranean

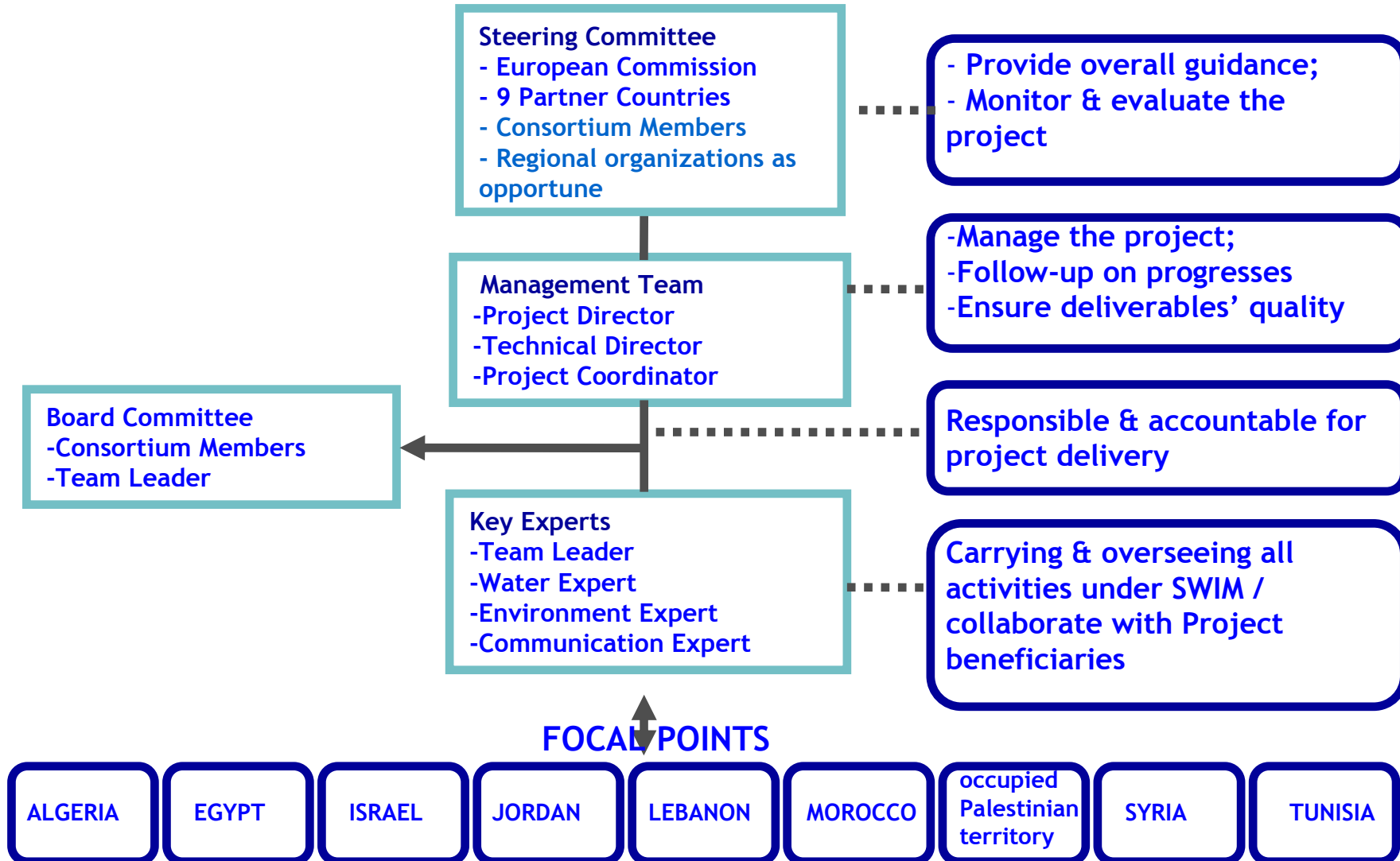
Development of a Communication and Awareness Raising Strategy: Focus on Bottom-Up Approaches Adapted to Regional & National stakeholders Inside and Outside the Water Sectors

Support the EC with the overall coordination of SWIM: Focus on technical support of the demonstration projects and strengthening interaction between these & SWIM-SM



SWIM-SM Implementation arrangements

Functions



SWIM-SM Implementation arrangements

In the Partners Countries:

- The Ministry of Water/Irrigation as the official counterpart of the Project;
- A National Focal Point officially nominated by the Ministry of Water/irrigation to be the counterpart of the SWIM-SM technical Team;
- An Environment Liaison Officer nominated by the Ministry of the Environment to ensure synergy with the water activities financed under Horizon 2020 and other regional activities (GEF, MAP etc.).

The Inception Phase

December 2010-August 2011

Its purpose

- To ensure a swift and effective start of the project;
- To gather information to better address the needs and expectations of the beneficiaries and stakeholders;
- To identify proper sequencing of the activities planned under the project's work packages, and;
- To ensure the establishment of proper cooperation and management mechanisms to facilitate the smooth implementation and ascertain the long - term ownership and sustainability of the project's outcomes

The Approach

SWIM-SM Design

- To be demand-driven by responding to the identified needs of the region and the country priorities
- To operate in ways that are iterative, adaptable and flexible at the interface of the six proposed work packages
- To anticipate development in the international arena with regard to climate change and the water-food-energy nexus, particularly in view of Rio+20
- To respond to emerging /challenges and priorities as a result of the recent change in the political scenery of the Region (The Arab Spring)

The Content of the Inception Phase

Technical Work

- Preparation of desktop brief assessments;
- Fact finding missions to all PCs and coordination with regional organisations; and
- The Pillar Structure (including a first SWIM event on NCWR)

Project management, Communication, Networking/Synergies:

- Project Management Arrangements;
- Preparation of Communication and Promotional Material;
- Networking, visibility activities and identification of synergies with key stakeholders

Inception Phase

The Results

- All PCs have shown genuine interest and expressed their commitment in participating actively in the project;
- The work packages provide a useful and appropriate framework that can assist them with the implementation of an integrated water resources management (IWRM) approach for the sustainable use of their country's water resources;
- There is a need “to cut across” these work packages and focus on a set of priority issues that, while serving the implementation of different IWRM components, will avoid dispersion of SWIM-SM efforts and make its overall contribution more effective.

Major Themes identified by the Partners Countries

Themes	Algeria	Morocco	Tunisia	Egypt	Jordan	Lebanon	Syria	Qatar	Israel
Non-conventional water resources, as indispensable part of the water cycle	x	x	x	x	x	x	x	x	x
Wastewater treatment and reuse (including recharge of aquifers)		x	x	x	x	x	x	x	
Capacity building on rural sanitation and low cost sanitation techniques		x	x	x				x	
Treatment & reuse of industrial wastewater and awareness raising of industrialists	x			x		x			x
Environmental guidelines for desalination and capacity building on new technologies		x	x	x				x	
Desalination with renewable energy, including the exchange of good practices	x	x	x	x				x	x
Develop ToR and Environmental Impact Assessment (EIA) guidelines for wastewater reuse, recharge of aquifers and desalination		x	x	x		x			
Technical support for rainwater harvesting		x	x	x			x		
Climate change non-regret actions and mainstreaming CC adaptation in water-related policies, including capacity building	x	x	x	x	x	x	x	x	x
Strengthen/expand the use of prediction models for climate change		x	x		x				x
Awareness of climate change impacts & creation of a virtual Platform on adaptation mechanisms to allow for exchange of experiences, practices, etc		x			x			x	x
Water Valuation and cost of mitigating degradation, including ecosystem restoration	x	x	x	x	x	x		x	x
Water Governance at the local level, including support of social and water users' groups and strengthening water users' associations and River Basin Organisations	x	x	x	x	x	x	x	x	x
Application of IWRM principles, including at the river basin level						x	x	x	x

Inception Phase: A flexible approach to Implementation: Pillars and Themes

- There is a need to focus and “to cut across” the work packages and develop FOUR outcome-oriented pillars which are considered Regional and National priorities as confirmed during the fact finding missions;
- The SIX WORK PACKAGES (WP) form a continuum with strong inter-linkages among them. The activities under the different WPs need to be seen as having multiple objectives, within and outside the WP they fall under;
- SWIM-SM will propose both the Work Packages and the Pillars so as to provide the flexibility required for the PCs to define appropriate activities consistent with their national priorities in the water sector.

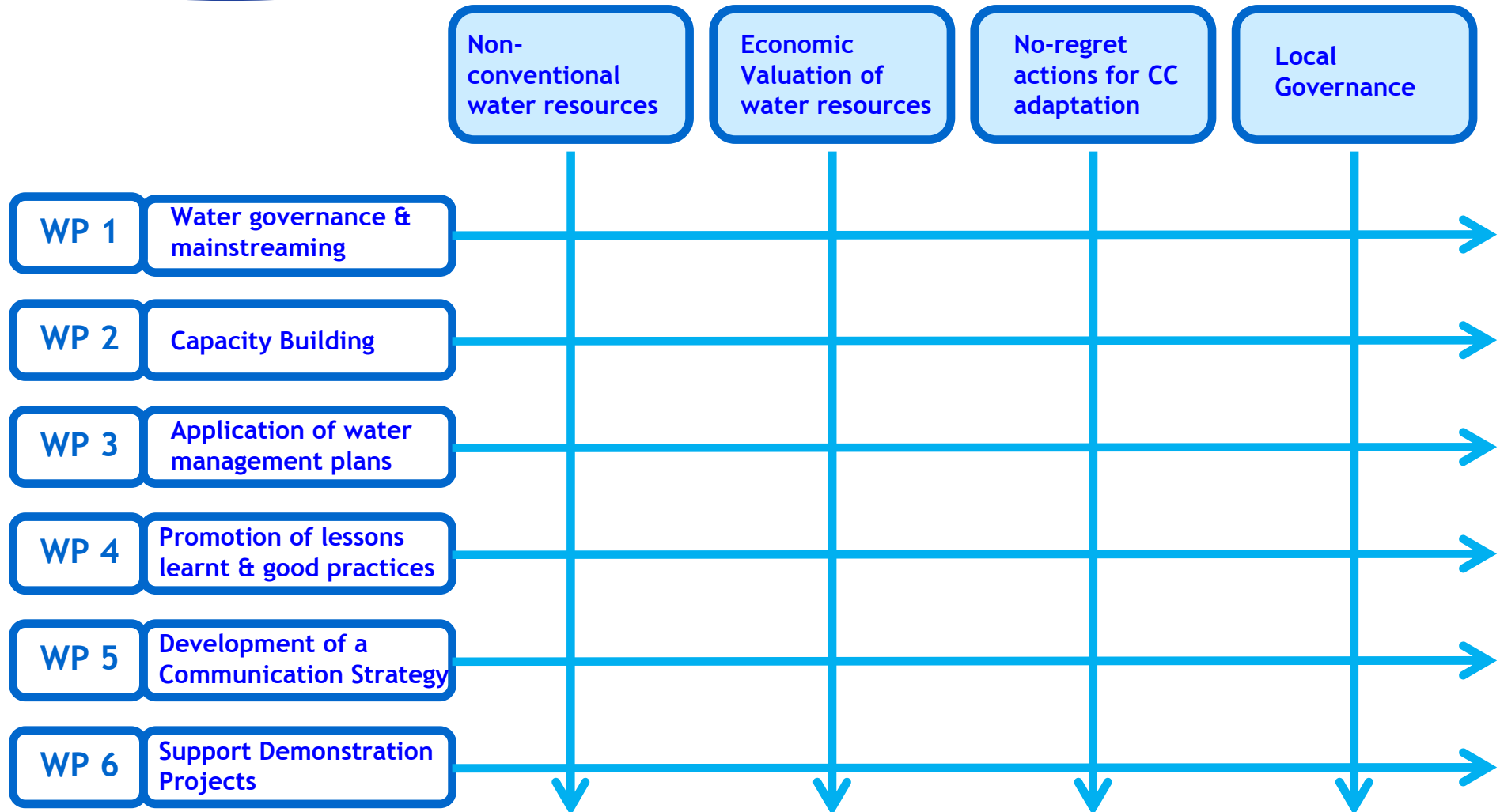
Inception Phase

The Four Pillars

- 1- Non Conventional Water Resources**
- 2- Economic Valuation of Water Resources**
- 3- No Regret Actions for the Adaptation of the Water Sector to Climate Change**
- 4- Water Governance at the Local Level: Sharing Experiences from Water Users' Associations**

Inception Phase

The Pillar Structure



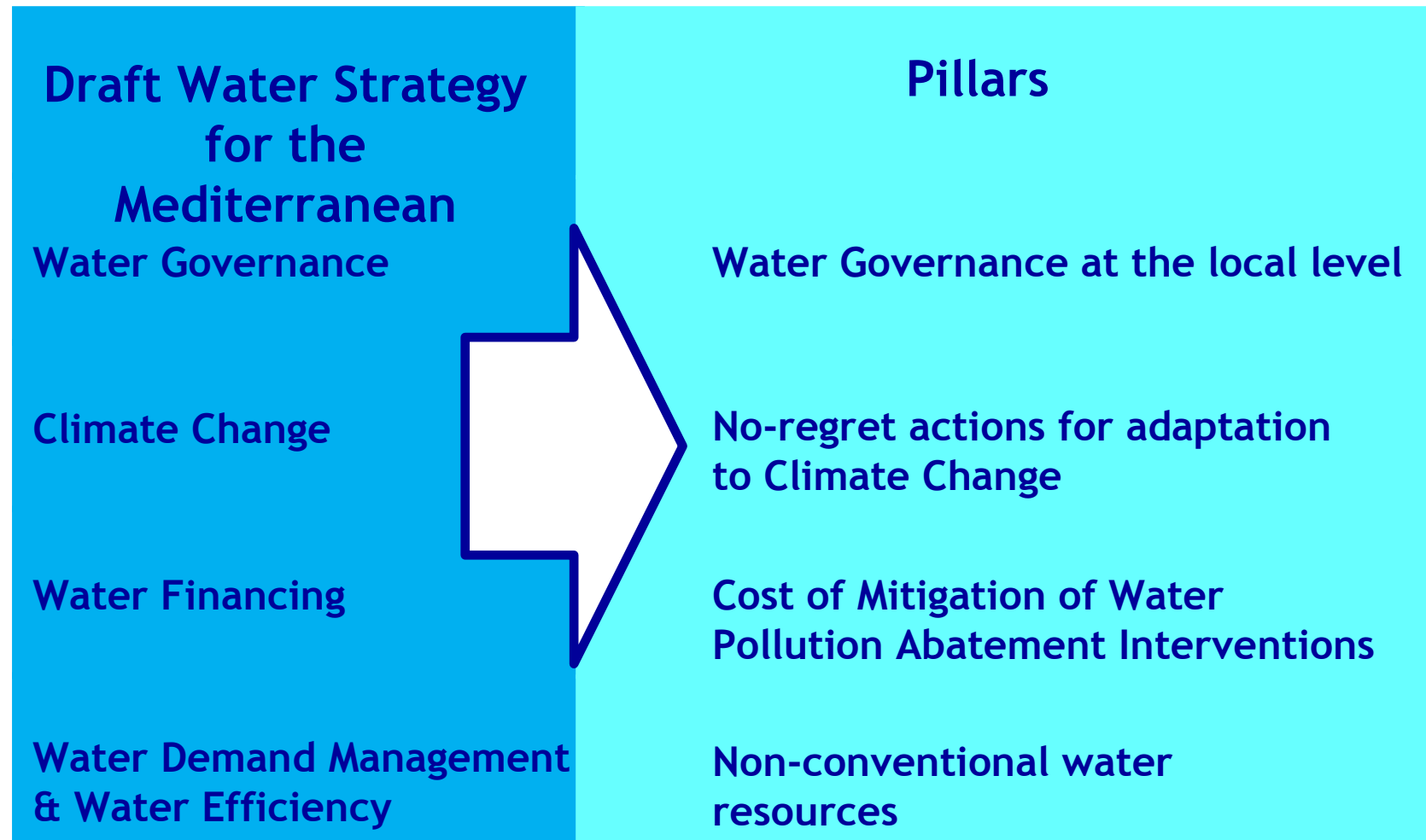
Inception Phase

Advantages of the Pillar Structure

- Addressing selected fundamental IWRM issues of concern to the PCs;
- Contribution to the policy dialogue between the EC and the PCs on proposed reforms to adopt and implement IWRM principles;
- Provision of an added value to existing regional and/or national activities in the water sector within the IWRM platform;
- Filling gaps for addressing water/waste water issues in a comprehensive manner.

Inception Phase

Advantages of the Pillar Structure: Alignment with the priority areas of the Ministerial in Jordan and the Draft Water Strategy for the Mediterranean



Inception Phase

Preparation of Communication, Promotional Materials & Replication Activities

Preparation of Communication and Visibility Strategy Framework for SWIM-SM

- It aims to establish a communication framework for SWIM-SM
- It also supports the needs for communication and visibility of the Demonstration projects in view of enhancing their replication potentials;
- It aims to synergize with the replication strategy of the UNEP/MAP GEF Med-Partnership and adapt it to cover potential replication activities under SWIM.

Preparation of Promotional Materials

- Project Main Message: “Water is too precious to waste”
accompanying the image of a child drinking water from a fountain
- SWIM-SM profile and pamphlets in English, French and Arabic

Networking and Synergies

- Synergies established with:
 - **Horizon 2020 Capacity Building Programme:**The SWIM-SM Work Plan has been aligned with the CB MEP Work Plan aiming to co-organise, continue and expand CB MEP's activities related to water after its completion
 - **Horizon 2020 Mediterranean Hot Spot Investment Programme (MEHSIP) and Shared Environmental Information System (SEIS):** Meetings and exchange of Information
 - **Mediterranean Component of the EU Water Initiative (MED-EUWI):** The SWIM-SM Work Plan has been aligned with the Service Contract activities in Lebanon and Egypt. SWIM-SM may be called to support follow up activities of the Service Contract after its completion
 - **MAP UNEP:** Potential collaboration on Climate Change and Desalination.
 - **MedPartnership:** Collaboration on replication, joint national inter-ministerial committees, etc
 - **Sustainable Med:** Potential Collaboration on GEF Waste Water Reuse Project in Algeria, Morocco, Tunisia, Jordan and oPt

Implementation Arrangements

- * Completion of a Comprehensive and Brief Version of the Inception Report
- * Preparation of a comprehensive work plan consisting of:
 - Main activities under each Work Package and Pillar for the period of August 2011-July 2012;
 - Main planning features during the project's entire duration;
 - Time schedule and resources allocation during the period of August 2011-July 2012;
- * Completion of Draft Terms of reference on:
 - Regional Assessment of the Status of the Water Users Participation in SWIM
 - Assessment of Best Available Technologies (BAT) for Desalination in Rural/Local Areas
 - Economic Consideration for Planning Desalination in South Mediterranean Countries
 - Regional Review of National Water Plans and/or Strategies
 - Assessment of the Cost of Environmental Degradation at the Basin level in Lebanon and Morocco
 - Proposed Criteria for Screening Success Stories and Best practices
- Nomination of the National Focal Points and Environment Liaison Officers

Next Steps

- **Feedback from the PCs during this workshop on the the main activities identified under the Pillar Structure as illustrated in the 1st Year Work Plan**

Start Implementation as of January 1st 2012 on:

- **The Regional Assessment of the Status of the Water Users Participation in SWIM**
- **The Assessment of Best Available Technologies (BAT) for Desalination in Rural/Local Areas**
- **A Regional Review of National Water Plans and/or Strategies**
- **Assessment of the Cost of Environmental Degradation at the Basin level in Lebanon and Morocco**
- **Launch the SWIM capacity building programme, including regional and Sub-regional training workshops on a set of issues in collaboration with H2020 Capacity Building Programme**

مع خالص شكري
وامتناني

Thank you
for your attention

Merci pour
votre attention



*For additional information please contact:
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