



Sustainable Water
Integrated Management (SWIM) -
Support Mechanism



Project funded by
the European Union

Water is too precious to waste

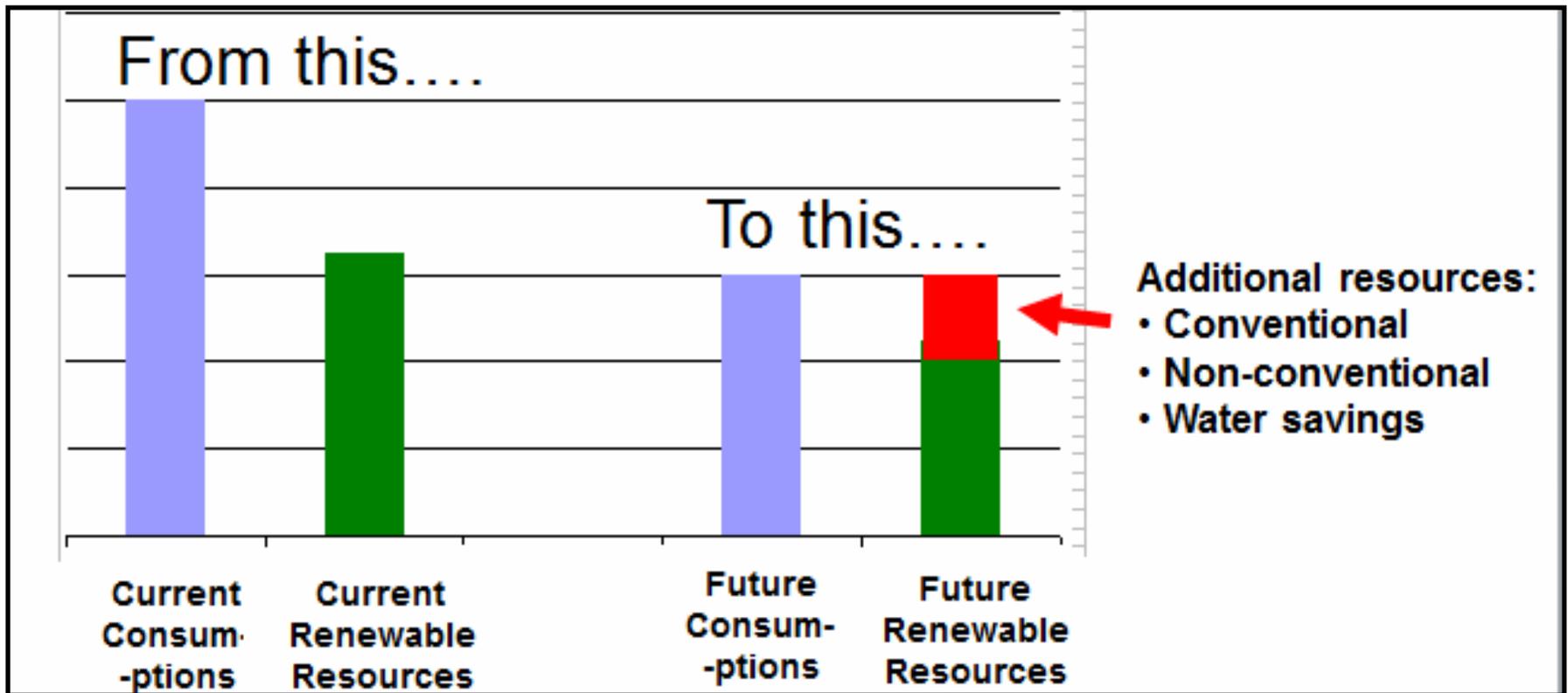
Workshop on the
**SUSTAINABLE USE OF NON-CONVENTIONAL
WATER RESOURCES**

Athens, Greece | 16 September 2011

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

The most plausible solutions...

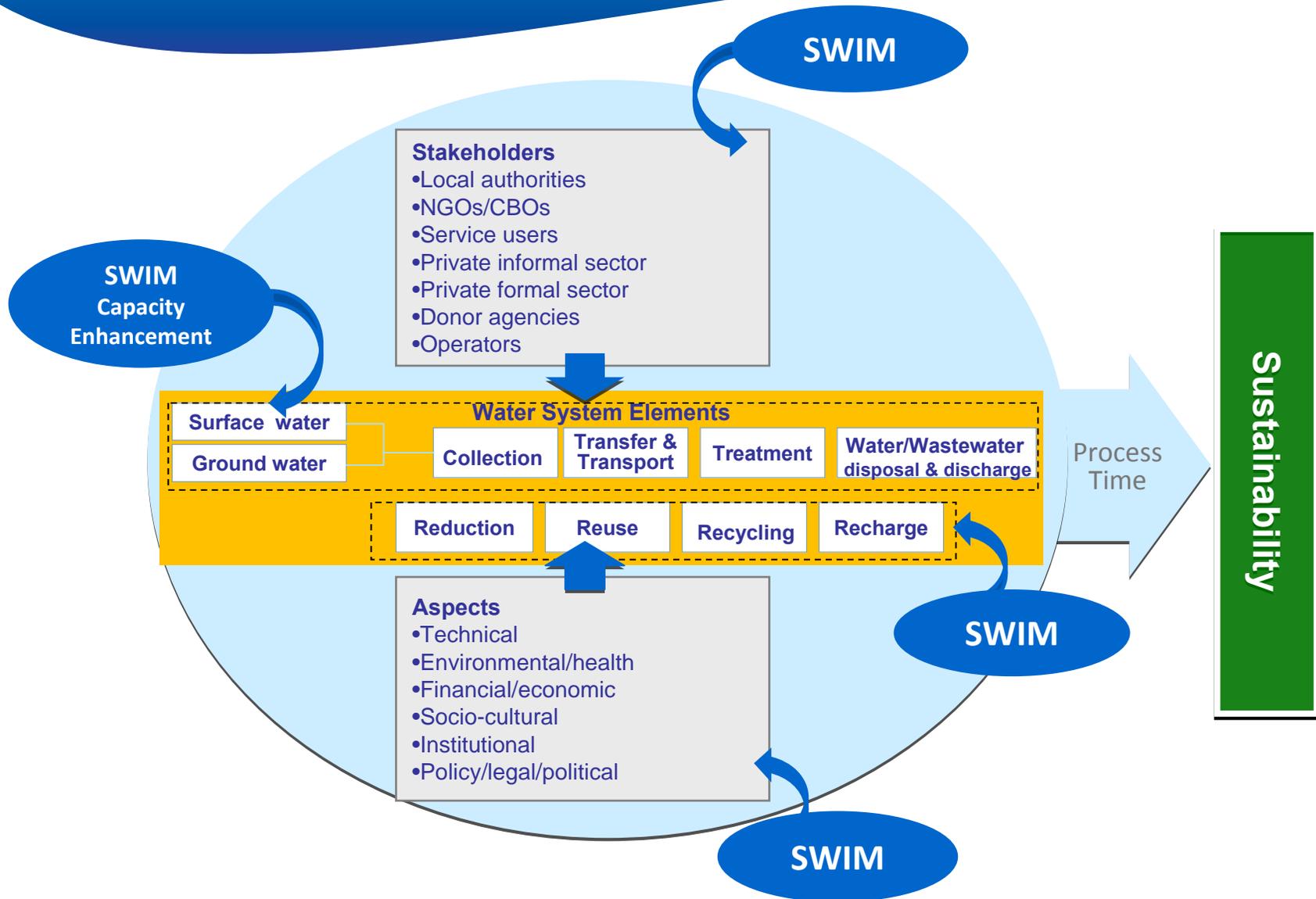
MANAGE WATER DEMAND AND ADD WATER SUPPLIES



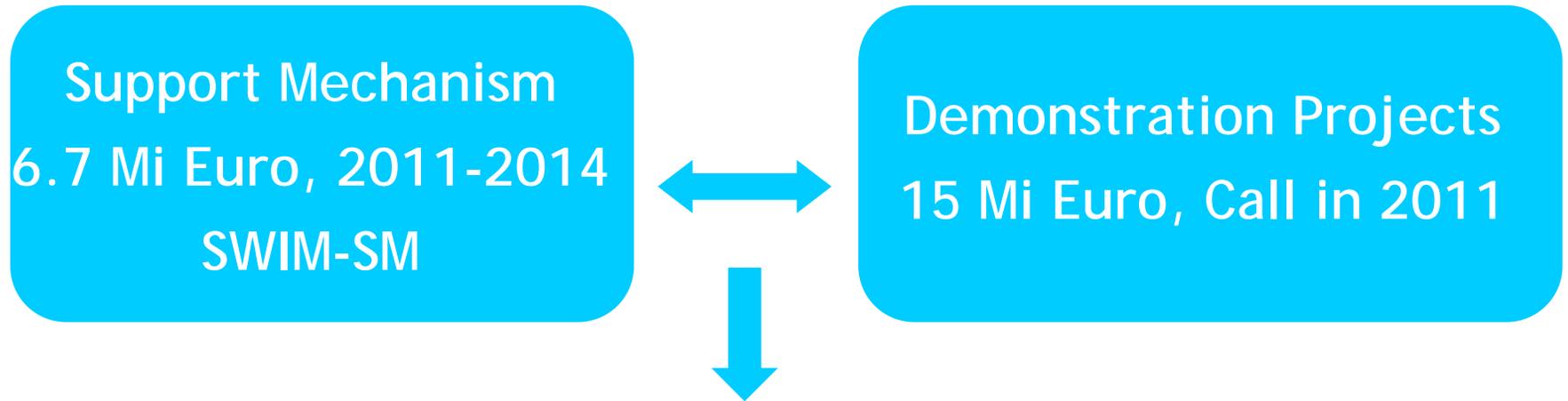
Source: P. Montovani (2008), Climate Change and Water in the Arab World, 13th World Water Congress

THE MOST PLAUSABLE 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



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

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

Work Package 1: Water Governance and Mainstreaming

Objectives

- To support institutional strengthening and contribute towards ensuring that national water strategies and plans properly address issues of sustainable water resource management
- To mainstream water targets and concerns in other relevant sectoral policies and strategies (for example agriculture, tourism and industry), as well as in national development plans.

Outcomes

- Water considerations are promoted using a participative approach, also at local level
- Water targets are mainstreamed in other relevant sectoral policies and in national development plans
- Economic valuation is carried out to assess the costs and benefits of mitigation actions on water degradation
- Climate change considerations are mainstreamed in national strategies, plans and policies, with emphasis on no regret

Work Package2: Capacity Building

Objectives

- To support the strengthening of stakeholder capacity at regional level
- To identify competent national and regional training institutions so as to serve as 'centres of reference'
 - To prepare a regional roster of experts from the ENPI countries who can deal successfully with sustainable water management issues in the region

Outcomes

- Selected institutions and their staff/personnel become capable of assisting in the planning and development of water resources management in a holistic manner
- A functional network of professionals and institutions to promote IWRM is established
- Case studies for training of trainers for universities and research centres are developed

Work Package 3:

Application of Water Management Plans

Objectives

- To strengthen intra sector (within all actors in the water sector, namely ministries, local authorities, civil society, etc) and inter sector dialogue
- To exchange experience in liaison with Horizon 2020 and MED EUWI
- To mobilise partner countries and other donors, elaborate upon thematic issues, and harmonise approaches and policies

Outcomes

- Regional approaches and policies on issues related to SWIM objectives are harmonized
- Exchange of experiences between institutions inside and outside the water sector box are strengthened, particularly in terms of setting policies and tackling issues like accountability, efficiency and governance
- A continuous liaison between the water activities of H2020 and MED EUWI is established.

Work Package 4: Identification and Promotion of good practices and success stories

Objectives:

- To identify and promote good practices and success stories on water management and/or de-pollution of the Mediterranean, in line with the draft Strategy for Water in the Mediterranean and the three sources of pollution tackled by the Horizon 2020 initiative (municipal waste water, municipal solid waste and industrial emissions) with an emphasis on water issues

Outcomes:

- Success stories focusing on experience and knowledge-sharing between the beneficiaries of SWIM and of other projects / programmes are disseminated
- Awareness on the Demonstration Projects is promoted in view of enhancing and multiplying their effects, improving policy design and implementation & encouraging replication of

Work Package 5: Development of a Communication and Awareness- Raising Strategy

Objectives:

- To develop a regional strategy for communication and awareness raising that could be applied regionally and nationally.

The strategy will actively involve key players inside and outside the water sector box, stakeholders, civil society, the media and the general public in the partner & non partner countries.

Outcomes:

- A Regional Communication and Awareness Raising Strategy and Action Plans for its implementation are developed
- A package of communication and awareness raising activities in selected countries is implemented
- A project legacy is created.

Work Package 6:

Support the EC with the overall coordination of the programme

Objectives:

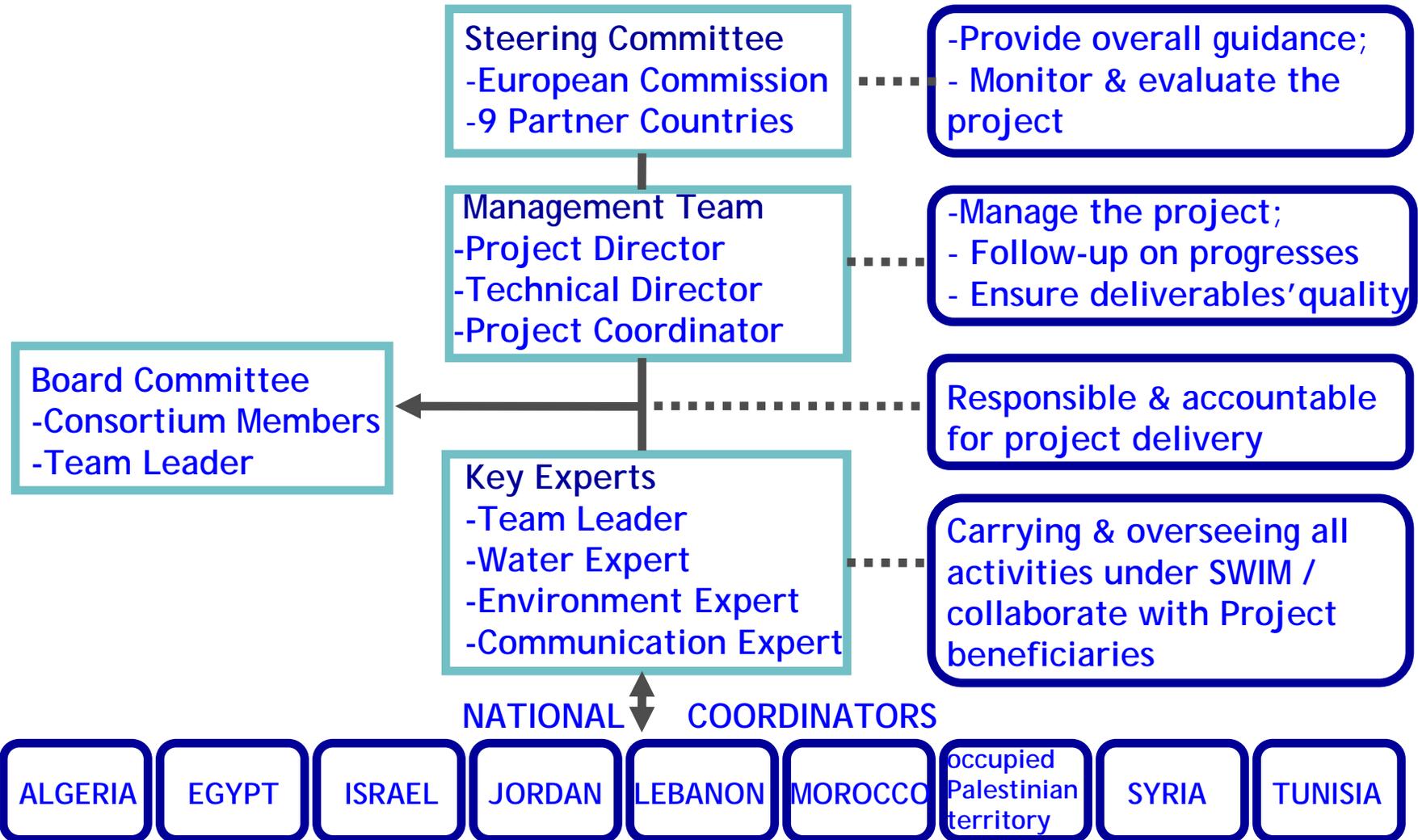
To provide technical support to the EC during the implementation of the demonstration projects, and strengthen the interactions and communication between them

Outcomes:

- A Regional Communication and Awareness Raising Strategy and Action Plans for its implementation are developed
- A package of communication and awareness raising activities in selected countries is implemented
- A project legacy is created

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 Coordinator** officially nominated by the Ministry 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.).

Progress to Date

The Inception Phase (January-September 2011)

Major tasks:

- **Desktop brief assessments** to present an overview of the current status of the water sector in the region, identify main challenges and opportunities, and provide to PCs informed suggestions on strategic options during the fact finding missions;
- **Fact finding missions in 9 PCs** to explain the project, diagnose the existing situation relating to sustainable water management, and gain an understanding of the IWRM strategies, plans and priorities in each country;
- **Detailed concept notes** on the thematic pillars identified during fact finding missions and requiring urgent action to achieve a better use and management of water resources;
- **Communication, Promotional Materials and Replication activities;**
- **Networking and visibility activities** related to SWIM and work plan preparation.

Inception Phase

Overview of the Brief Assessments

Brief thematic assessments were conducted as desk studies for the areas of intervention proposed in the draft Strategy for Water in the Mediterranean, which are:

- Water governance, IWRM Planning and National Water Strategy Development;
- Adaptation to climate change;
- Water financing and;
- Water demand management and efficiency including non-conventional water resources management.

Main challenges and opportunities, as well as specific activities that could be supported by SWIM-SM, were recommended.

Inception Phase

Fact Finding Missions

Fact finding missions were organised in the period between February and mid July 2011 to:

- inform the nine PCs about the context, objectives and approach of SWIM-SM;
- gain an understanding of the water strategies/plans and priorities in each country, and identify specific needs that could be assisted by the project through regional and sub-regional activities;

Stakeholders were:

- Water and sanitation ministries, and other relevant institutional and governmental bodies;
- Bilateral donors (AFD, GIZ, JICA, USAID, SIDA, Cooperation Offices, etc), Intergovernmental Agencies (UNDP, ESCWA, FAO, UNEP MAP, etc), International Financing Institutions- IFIs (the European Investment Bank, the World Bank, the African Development Bank, etc) and Regional Initiatives and Programmes (H2020 CB MEP, H2020 MEHSIP, MED EUWI, GEF MedPartnership, Sustainable Med, etc);
- Regional Organizations (LAS, UfM, CEDARE, ACSAD, ESCWA, AWC, and OSS);
- Research Institutes, NGOs, and focal points of H2020 as appropriate.

Inception Phase

Fact Finding Missions

- 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.

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 interlinkages 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 select appropriate activities consistent with their national priorities in the water sector.

Inception Phase

The Four Pillars

- Non Conventional Water Resources
- Economic Evaluation of Water Pollution Abatement Interventions
- No Regret Actions for the Adaptation of the Water Sector to Climate Change
- Water Governance at the Local Level: Sharing Experiences from Water Users' Associations

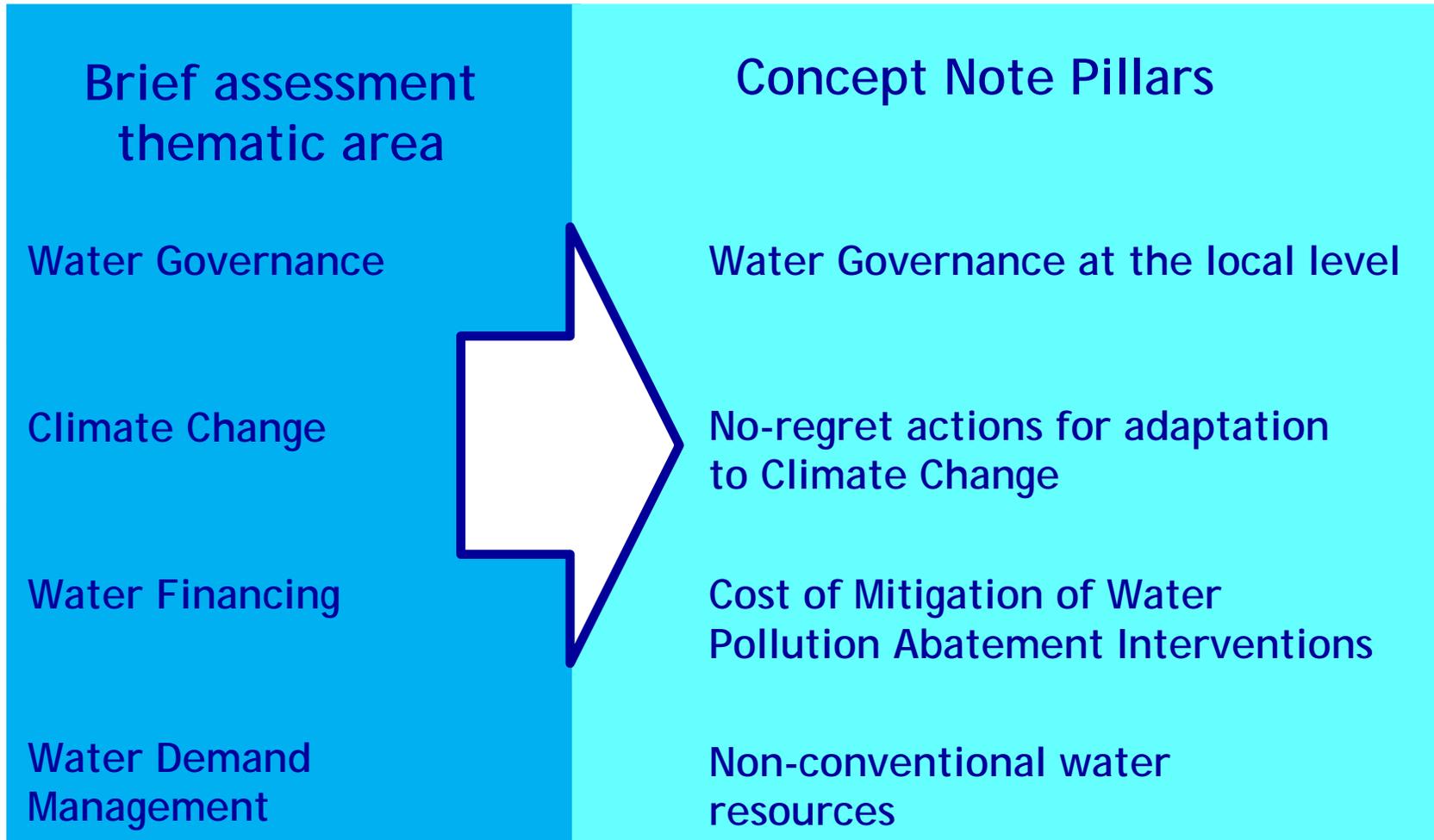
Inception Phase

Criteria for the selection of the Four Pillars

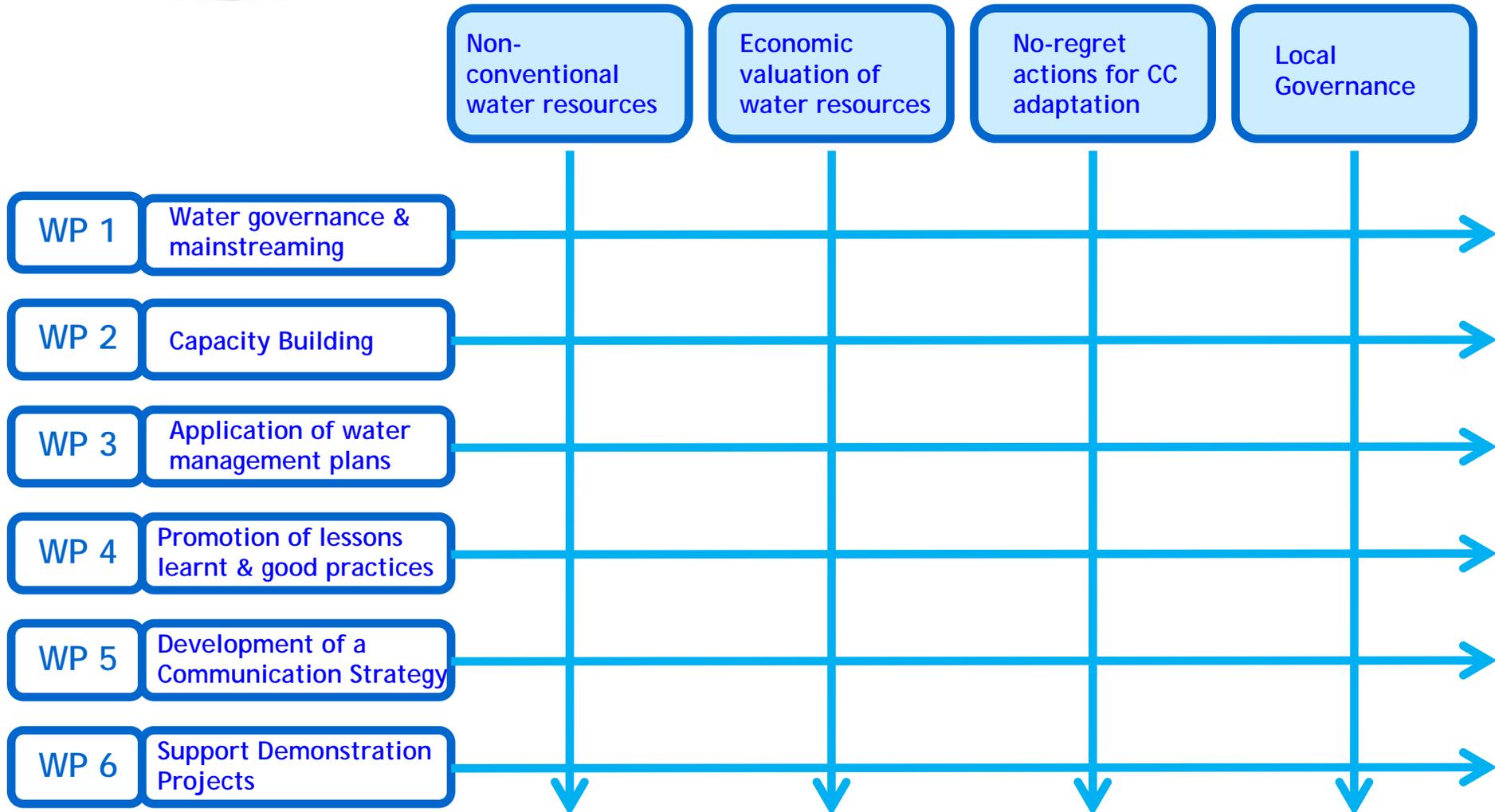
- Consistency with the Draft Strategy for Water in the Mediterranean;
- Addressing the fundamental IWRM issues of concern to the PCs;
- Contribution to the policy dialogue between the EC and the PCs on proposed reforms to adopt and implement IWRM principles;
- Provision of an added value to existing 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

Alignment of the Brief Assessments with the Pillars



Inception Phase Pillars



Pillar 1:

Non Conventional Water Resources Initiative

Objectives

- To enhance the policy, institutional and legal framework for the management of non-conventional water resources, within the IWRM context;

- To strengthen the institutional capacity and public participation for the planning and management of these resources;

The main non-conventional water resources are: Treated waste water re-use, recharge of groundwater aquifers and, as a last resort, desalination, using renewable energy where technically and economically feasible.

Components

- Strategy formulation for the use of non conventional resources;
- Improving the legal framework in order to anchor the use of non-conventional water resources;
- Developing the institutional framework for managing non-conventional water resources with stakeholders' participation;
- Enhancing the environmental and social safeguards for the use of non-conventional water resources;
- Building capacity and awareness to increase knowledge on technologies and promote social acceptance.

Pillar 2:

Economic Evaluation of Water Pollution Abatement Interventions

Objectives

- To update the estimates on the annual costs of water degradation in selected basins or water sheds in selected Partners Countries (PCs);
- To identify in 1-2 basins in three PCs two priority remedial actions for highly polluted water;
- To build capacity in selected PCs on environmental valuation and;
- To involve stakeholders in the particular basins through consultation to build consensus and dissemination of results at the watershed /basin level.

Components

- Cost of environmental degradation update at the basin level, due to water pollution;
- Cost Benefit or Cost Effectiveness Analyses of Remedial Actions and Preparation of Investment Plans for 1-2 basins in 3 PCs;
- Building the capacity of the decision makers at the sub-national/basin level and the Universities with regards to the methodologies used;
- Validation and dissemination of the Investment Plans at the Watershed/Basin Investment Plans.

Pillar 3:

No Regret Actions for the Adaptation of the Water Sector to Climate Change

Objectives

- To support selected PCs in their climate change adaptation efforts of developing no-regret actions through technical assistance, policy guidance, capacity development and awareness raising;
- To strengthen the institutional and technical capacity for designing and implementing concrete no regret adaptation actions and;
- To improve governance in water planning, allocation and service delivery, increasing awareness and in disseminating climate change information.

Components

- Assessment of the adequacy of the institutional and technical capacities to undertake proposed no-regret actions for CC adaptation at the national level;
- Development of no-regret actions in the water sector for addressing the water scarcity at the local or basin level;
- Improving water governance to ensure the public acceptance and compliance with suggested no-regret actions for CC adaptation and;
- Improving awareness on immediate need of the water sector for no regret actions.

Pillar 4: Water Governance at the Local Level: Sharing Experiences from Water Users' Associations (WUAs)

Objectives

- To Identify concrete actions for improving local water management and reinforcing users' participation;
- To assess the adequacy of water legislations for the establishment and effective operation of WUAs and identify opportunities for updating and/or amending them;
- To provide WUAs with tools that would enable them to be actively involved in decision-making in the water sector on selected areas and at the local level, and;
- To create partnerships in development.

Components

- Preparation of a regional report on the status of water users' participation;
- Organisation of a regional workshop to promote the exchange of experiences among the countries in the region;
- Legal framework assessment and identification of opportunities for updating and/or amending water legislation;
- Training activities to assist the establishment of pilot WUAs and;
- Pilot activities to strengthen WAUs in accordance with national regulations.

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 that will be followed by specific communication and visibility Action Plans for each of the pillars;
- It also supports the needs for communication and visibility of the Demonstration projects in view of enhancing their replication potentials
- It aims to review the replication strategy of the UNEP/MAP GEF MedPartnership 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

Inception Phase Project Visibility

Participation in meetings and in workshops:

- Fourth Meeting of the H2020 Steering Group (Amman - Jordan, 22-23 February 2011)
- Meeting at the Water Week in the World Bank (Washington DC -3 February 2011)
- Meeting with the Union for the Mediterranean (UfM) (Paris, 25 February 2011)
- Regional and National H2020 CB/MEP Courses on Wastewater Treatment and Reuse in Jordan and Lebanon (March - April 2011)
- Water Efficient 2011 Conference (Dead Sea - Jordan, 29 March to 2 April 2011)
- Meeting of ENPI South Regional Projects on Water (Brussels- Belgium, 29 March 2011)
- MED EUWI Consultation workshop (MEW, Beirut - Lebanon, 6 April 2011)
- 30th Meeting of the Water Thematic Group (Rabat - Morocco, 14 April 2011)
- High Level Fourth Meeting of the Technical and Advisory Committee of the Council of Arab Water Ministers (League of Arab States, Cairo - Egypt, 24-26 April 2011)
- Fourth Meeting of the Water Expert Group of the Union for the Mediterranean (Barcelona - Spain, 18 May 2011)
- Optimising synergies between "Sustainable Med", "MedPartnership" and regional EU projects in the Mediterranean (Athens-Greece, 27 June 2011)
- Meeting with UNEP/MAP GEF MedPartnership

Inception Phase

Preparation of a Work Plan

Detailed 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;

Indicators to be identified to track progress towards achieving implementation of the activities

مع خالص شكري
وامتناني

Thank you
for your attention

Merci pour
votre attention



For additional information please contact:

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