

[Click Here to upgrade to Unlimited Pages and Expanded Features](#)

## H2020 Capacity Building/Mediterranean Environment Programme

**“ISWM with particular focus on appropriate methodologies/ technologies”**

**22-24 November, Palestine, 2011**

### Introduction - The Horizon 2020 Initiative

The **“Horizon 2020 Initiative”** aims to de-pollute the Mediterranean by the year 2020 by tackling the sources of pollution that account for around 80% of the overall pollution of the Mediterranean Sea: municipal waste, urban wastewater and industrial pollution.

Horizon 2020 was endorsed during the Environment Ministerial Conference held in Cairo in November 2006 and is one of the key initiatives run under the Union for the Mediterranean (UfM). The H2020 2007-2013 Road-Map focuses on the following four pillars:

- Identification of projects to reduce the most significant sources of pollution.
- Identification of capacity-building measures to help neighbouring countries create national environmental administrations that are able to develop and police environmental laws.
- Use of the EC’s research budget to develop greater knowledge of environmental issues relevant to the Mediterranean and ensure this is shared.
- Develop indicators to monitor the success of Horizon 2020.

H2020 is made up of the following components: monitoring, reporting and research (RMR); investment; and capacity building. Under each component, a project is currently being run. H2020 Capacity Building/Mediterranean Environment Programme (H2020 CB/MEP) is the project aiming at enhancing the capacities to address pollution problems at institutional and society level. In addition, through the H2020 MEP, a Hot Spot Investment Programme (HSIP) for the West Balkans and Turkey - as complementary to the Mediterranean HSIP (MeHSIP) – has been elaborated. The other two projects currently being carried out under the investment and RMR H2020 components are respectively the MeHSIP and the Mediterranean Shared Environmental Information System (Med SEIS).

### The framework - Horizon 2020 Capacity Building/Mediterranean Environment Programme

Obviously pollution is expected to be substantially reduced through the installation and proper functioning of major infrastructures (e.g. sewage treatment plants), installing pollution reduction technologies in industries, etc. However, this won’t work if institutional and individual capacities are not in place. This is what the H2020 CB/MEP aims to enhance by operating within the existing and developing policy instruments, and supporting the implementation of the commitments undertaken in the framework of the ENP as well as other regional agreements e.g. of the Barcelona Convention, while cooperating, coordinating and synergising with all relevant (EU and other) programmes.

#### Aims and objectives

The main objective of this project is to support the implementation of Horizon 2020 with a special focus on environmental mainstreaming. It aims to address the following problems:

- low political priority given to the environment;
- insufficient integration of environment in the different sector policies (agriculture, tourism, transport or energy) and lack of inclusion of the different actors from local to international level;
- Insufficient capacities and resources at institutional and civil society level.



UNEP/MAP  
and its  
RACs

ANGed/  
SWEEPNet

AEA

LMoE  
W

HMEECC

UNESCO-IHE

MIO-ECSD

RAED

WWF  
MedPO

ACR+

ACWUA

[Click Here to upgrade to Unlimited Pages and Expanded Features](#)

implementation of the Horizon 2020 Initiative Road Map and Work Plan through capacity building and awareness-raising activities, and to promote integration of environment issues in other sectors policies.

### Partners

This project is funded by the European Union and implemented by the National and Kapodistrian University of Athens (NKUA) in consortium with: Mediterranean Action Plan of the United Nations Environment Programme and its Regional Activity Centres and Programmes (UNEP/MAP and its RACs), National Waste Management Agency (ANGed)/ Regional Solid Waste Exchange of Information and Expertise Network in Mashreq and Maghreb Countries (SWEEPNet), Umweltbundesamt GmbH – Austrian Environment Agency (AEA), Lebanese Ministry of Energy and Water - the General Directorate of Hydraulic and Electrical Resources (LMoEW), Hellenic Ministry for Environment, Energy and Climate Change, UNESCO-IHE Institute for Water Education (UNESCO-IHE), Mediterranean Information Office for Environment, Culture and Sustainable Development (MIO-ECSD), Arab Network for Environment and Development (RAED), WWF Mediterranean Programme Office (WWF MedPO), Association of Cities and Regions for Recycling and Sustainable Resource Management (ACR+), Arab Countries Water Utilities Association (ACWUA).

### Partner Countries

The Partner countries are: Albania, Algeria, Bosnia- Herzegovina, Croatia, Egypt, Israel, Jordan, Lebanon, Montenegro, Morocco, occupied Palestinian territory, Tunisia, Turkey, Syria.

## Course Description - ISWM with particular focus on appropriate methodologies/ technologies

### Introduction to the training course

This national training course (meant for Palestinian officials only) is organized within the framework of the Horizon 2020 CB/MEP project and in response to the capacity building needs identified earlier in the project. The course is organized by the Association of Cities and Regions for Recycling and Sustainable Resource Management (ACR+) with the support from Waste. Its duration is 2,5 days. The language of the course is English. More or less twenty participants from Palestine may attend.

### Target group

The capacity building activity is targeted to: Country officials (Ministries, Agencies, Regional & Local authorities), and others that are involved, or will be in the future, in implementing the national strategy for SWM in the Palestinian territory. The background level of the trainees is expected to be of an intermediate to high level.

### Learning objectives

The main objective of the course is to increase the trainees’ understanding of the complex and multidimensional challenges of waste management and develop their skills to allow them for appropriate decision making regarding Integrated Sustainable Waste Management options with emphasis on **appropriate methodologies/ technologies**.



[Click Here to upgrade to Unlimited Pages and Expanded Features](#)

and interactive, making use of professional learning tools such as

- Pre- course assignment
- Lectures
- Group- and plenary discussions
- Learning by doing and case study exercises
- Site visit(s) (close by if available)
- Video display

### Learning outcomes of the training course

After the training course the trainees will be able to:

- Understand the current status of waste management in Palestine and assess the opportunities for improvements in waste aspects and elements
- Appraise and put into context the key issues (technical, environmental, economic, safety, health, cultural and social) related to ISWM
- Understand and be able to explain the environmental, social and economic benefits of SW reduction and methods to select appropriate methodologies, sites, technologies, etc.
- Understand and explain the different subsequent stages when designing and implementing public participation, community awareness & education programs
- Assessing and clarify the role, responsibility and duties of waste competent authorities and other stakeholders regarding the implementation of waste management strategies/ policies

### A preliminary overview of the course is given below:

The following topics/ modules will be provided (modules based on ISWM key concepts – stakeholders, waste system element & waste aspects):

#### Module 1 ISWM waste systems elements

1. Opportunities for SW reduction & the needed implementation tools including: waste system elements analysis, waste flow analysis and material flow analysis in the resource-product-waste chain
2. Developing advanced methods for selecting appropriate methodologies, sites, technologies, etc. (technical issues)
  - Systems to check and monitor effectiveness for SW collection and transport using solid waste process flow, assessing different service models including collection routes, different collection zones, GIS support,...
  - Best practices in waste recycling including supply chain management, the recycling sector, recycling technologies, markets for recyclables,...

#### Module 2 Stakeholders, public participation & community awareness/ education

3. Developing methodologies for effective involvement of all necessary stakeholders (public participation) with emphasis on stakeholder analysis by setting up checklists: for identifying stakeholders, for identifying interests, for assessing stakeholder importance, for drawing up assumptions (and risks deriving from) about stakeholders...
4. Examples of community awareness programs and participatory approaches between government and non governmental institutions focusing more particularly on the different stages and phases in raising awareness for behavior change of citizens including:

[Click Here to upgrade to Unlimited Pages and Expanded Features](#)

...ve  
...aging

- Know how to influence the target groups
- Know how to reach them with a particular focus on Influencing consumption and production patterns

### Module 3 ISWM Institutional aspects for improved ISWM

5. Supporting the structure of the competent authorities to tackle and enforce relevant legislation



UNEP/Map  
and its  
RACs



ANGed/  
SWEEPNet



AEA



LMoE  
W



HMEECC



UNESCO-IHE



MIO-ECSD



RAED



WWF  
MedPO



ACR+



ACWUA

Click Here to upgrade to  
Unlimited Pages and Expanded Features

## Detailed training/ study visit program

Arrival of the trainees at Ramallah on Monday 21 November 2011

	Topic	Description	Length	Trainer/ facilitator	Location	Method
<b>Day 1: Tuesday 22 November 2011</b>						
9h00 – 10h00	Official opening and introduction	- Welcome addresses & opening words - Introduction of course program - Introduction of speakers and participants - Rules of the road/training/ study visit culture, etc - Introduction to ISWM	1 hour	JJ Dohogne	Birzeit University Centre for Continuing Education (CCE)	Opening words and round of introductory statements
10h00-11h00	ISWM waste systems elements	<u>Session 1</u> : Waste system elements analysis, waste flow analysis and material flow analysis in the resource-product-waste chain with focus on the current status in Palestine	1 hour	Reem Musleh, Ph.D.	CCE	Interactive presentation + working group discussions
11h00-11h30	Coffee break					
11h30-12h30	ISWM waste systems elements	<u>Session 1</u> continued	1 hour	Reem Musleh, Ph.D.	CCE	Interactive presentation + working group discussions
12h30-14h00	Lunch Break		1 ½ hour		CCE	
14h00-15h30	ISWM waste systems elements	<u>Session 2</u> : Opportunities and obstacles of waste reduction and recycling in Palestine	1 ½ hour	Reem Musleh, Ph.D.	CCE	Interactive presentation + working group discussions
15h30-16h00	Coffee break					
16h00-17h00	Stakeholders, public participation & community awareness/ education	<u>Session 3</u> : Examples of community awareness programs and participatory approaches between government and non governmental institutions focusing more particularly on the different stages and phases in raising awareness for behavior change of citizens	1 hour	Ms. Juliane Weber	CCE	Interactive presentation + working group discussions
17h00-17h15		Recap of day 1 and introduction to the site visits on day 2 am.	¼ hour	Reem Musleh, Ph.D. & JJ Dohogne	CCE	

## Day 2: Wednesday 23 November 2011

	Topic	Description	Length	Trainer/ facilitator	Location	Method
8h30–12h30	Site visits	<u>Site visits</u>	+/-3 hours	Reem Musleh, Ph.D.	Field	Interactive study visit
12h30-14h00	Lunch break	To be decided yet	1 ½ hour			
14h00-15h00	Stakeholders, public participation & community awareness/ education	<u>Session 3</u> continued Reflection on the site visits and ways to develop awareness campaigns	1 hour	Ms. Juliane Weber	CCE	Interactive presentation + working group discussions
15h00-17h00 with a break in between	Stakeholders, public participation	<u>Session 4</u> : Developing methodologies for effective	2 hours	Ms. Juliane Weber	CCE	Interactive presentation + working group



[Click Here to upgrade to Unlimited Pages and Expanded Features](#)

		with emphasis on stakeholder analysis by setting up checklists: for identifying stakeholders, for identifying interests, for assessing stakeholder importance, for drawing up assumptions (and risks deriving from) about stakeholders				discussions
--	--	--	--	--	--	-------------

### Day 3: Thursday 24 November 2011

	Topic	Description	Length	Trainer/ facilitator	Location	Method
9h00 – 9h15		<ul style="list-style-type: none"> <li>Recap of day 2 and introduction to day 3</li> </ul>	¼ hour	JJ Dohogne	CCE	Interactive session
9h15-10h30	ISWM waste systems elements	<p><u>Session 5</u>: Developing advanced methods for selecting appropriate methodologies, sites, technologies, etc.</p> <ul style="list-style-type: none"> <li>Occupational Health aspects of waste management</li> <li>Maintenance system as a mean to improve efficiency</li> <li>GIS for collection / transfer – Cooperation between municipalities (JSC or coordination units) to improve efficiency.</li> <li>Examples of integrating informal sector recycling into Waste Management – experience from Hebron</li> </ul>	1 ¼ hour	Eng. Yasser Jameel Dweik	CCE	Interactive presentation + working group discussions
10h30-11h00	Coffee break					
11h00–12h00	ISWM waste systems elements	<u>Session 5</u> continued	1 hour	Eng. Yasser Jameel Dweik	CCE	Interactive presentation + working group discussions
12h00–12h30	ISWM waste systems elements	<u>Session 6</u> : GIS use for Dumpsites assessment or for landfill sites selection	½ hour	Reem Musleh, Ph.D.	CCE	Interactive presentation
12h30-14h00	Lunch break		1 ½ hour			
14h00–16h30	ISWM Institutional aspects for improved ISWM	<u>Session 7</u> : Supporting the structure of the competent authorities to tackle and enforce relevant legislation	2 ½ hour	Reem Musleh, Ph.D.	CCE	Interactive presentation + working group discussions
16h30–17h00	Closing	<ul style="list-style-type: none"> <li>Closing Remarks</li> <li>Evaluation of Training</li> <li>Certificate Awards</li> </ul>	1 hour	JJ Dohogne	CCE	

Departure of the trainees from Ramallah on Friday morning 25 November 2011

