



Sustainable Water Integrated Management (SWIM) – Support Mechanism

Project funded by the EU



**Horizon 2020**  
CAPACITY BUILDING/MEDITERRANEAN ENVIRONMENT PROGRAMME



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

### INFORMATION NOTE (Including Provisional Agenda)

#### SUB-REGIONAL WORKSHOP ON

“INNOVATIVE AND ADAPTABLE TECHNOLOGIES FOR TREATED WASTEWATER RE-USE,  
INCLUDING THE RE-CHARGE OF AQUIFERS AND DESALINATION”.

~~109-13~~ 12 JULY 2012 ~~.....~~ ISRAEL

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

H2020 Capacity Building/Mediterranean Environment Programme  
(H2020 CB/MEP)

#### 1.1 Background

The EU-ENPI-funded projects Sustainable Water Integrated Management (SWIM-SM) and the Capacity Building Component of the Horizon 2020 initiative (CB/MEP) are partnering for the organization of a sub-regional workshop on “Innovative and adaptable technologies for treated wastewater re-use, including the re-charge of aquifers and desalination” to include Jordan, occupied Palestinian territory and .....Israel. :-

#### 1.2 Objectives & expected results

##### 1.2.1 Workshop Objectives

The aim of this workshop is:

- To introduce participants to the state-of-the-art of wastewater reuse schemes, including innovative and adaptable treatment technologies. Risk management and effluent standards for various reuse purposes will be discussed to support scheme design and technology selection.
- To introduce participants to technologies for artificial recharge with treated wastewater, and their role in wastewater reuse schemes.



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- To understand the state of the art in desalination processes and their economic, energy and environmental impacts.

### 1.2.2 Expected Outcome

- An improved knowledge of innovative technologies for wastewater treatment and reuse, re-charge of aquifers and desalination in urban and rural areas.
- An improved knowledge of EU [wastewater reuse](#) legislation.

### 1.3 Target Audience

The targeted audience for the workshop are ~~around between 20-3024~~ (5 participants sponsored by SWIM-SM and 5 sponsored by H20208 participants from each country) mid-level officials and stakeholders dealing with wastewater treatment, groundwater recharge and/or desalination such as:

- Representatives from [relevant](#) national authorities [and municipalities](#).
- NGOs

### 1.4 Proposed location and Date

The workshop is to be held in ~~XXXXX~~Israel for 4 days from the ~~10<sup>th</sup>-9<sup>th</sup>~~ to the ~~13<sup>th</sup>-12<sup>th</sup>~~ of July 2012. Arrivals to ~~XXXXXXXX~~Israel will be on the ~~12<sup>th</sup>-9<sup>th</sup>~~ and departure on the ~~14<sup>th</sup>-13<sup>th</sup>~~ of ~~April~~July 2012.

### 1.5 Provisional Agenda

Date: 10-13 July 2012

Course schedule/ curriculum				
<del>0109.0407.20</del> 12	Topic	Description	Length	Method/Speaker or Trainer
Session 1	Official opening	Welcome addresses and opening words  Introduction to Horizon 2020-SWIM-SM and the course program	45 min (09:00 - 09:45)	<a href="#">SWIM-SM</a> <a href="#">H2020CB/MEP</a> <a href="#">SWIM-SM</a> <a href="#">H2020-CB/MEP</a>
Session 2	Introduction: (global) status wastewater reuse	Description of the state-of-the-art of wastewater treatment and reuse	30 min (09:45 - 10:15)	<a href="#">DHV – Yoav Yinon</a> <a href="#">DHV</a>
Session 3	EU water projects	Overview of EU legislation and EU funded projects on wastewater treatment and reuse	30 min (10:15 - 10:45)	<a href="#">DHV - Jos Peter</a> <a href="#">DHV</a>



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Session 4	Reclaimed water quality requirements	Reclaimed water quality requirements, based on environmental risk assessment and management	Coffee (15 min) 30 min (11:00 - 11:30)	<a href="#">DHV – Eldad Elron</a> <a href="#">DHV</a>
Session 5	Presentations by participants	Introduction of participants: expertise, experience, background, local conditions	1 hour (11:30-12:30)	<a href="#">DHV – Yoav Yinon</a> <a href="#">(Facilitator)</a> <a href="#">DHV</a>
			<b>Lunch (1 h)</b>	
Session 6	Water treatment options	Treatment options: treatment matrix, standard treatment schemes	1.5 h (13:30-15:00)	<a href="#">DHV – Yoav Yinon</a> <a href="#">DHV</a>
			<b>Coffee (15 min)</b>	
Session 7	SWIM Assessment	Assessment of Best Available Technologies (BAT) for Wastewater Reuse in Rural/Local Areas	1 hour (15:15-16.15)	<a href="#">DHV – Efrat Ling</a> <a href="#">DHV</a>
Session 8	Water treatment options	Treatment options: innovative and adaptable technologies	30 minutes (16:15-16:45)	<a href="#">DHV – Yoav Yinon</a> <a href="#">DHV</a>
<b>1110.0407.20</b> <b>11</b>	<b>Topic</b>	<b>Description</b>	<b>Length</b>	<b>Method/Speaker or Trainer</b>
Session 1	Agricultural reuse of wastewater	Agricultural use of treated wastewater and WHO guidelines	30 minutes (09.00-9:30)	<a href="#">DHV – Gilad Safier</a> <a href="#">DHV</a>
Session 2	Soil Aquifer Treatment	Introduction to Artificial Recharge with Treated Wastewater	1 hour 15 min (9:30-10:45)	<a href="#">DHV - Jos Peter</a> <a href="#">DHV</a>
			<b>Coffee (15 min)</b>	
Session 3	Soil Aquifer Treatment	SAT for Wastewater Treatment and Reuse (1)	45 minutes (11.00 - 11.45)	<a href="#">DHV - Jos Peter</a> <a href="#">DHV</a>
Session 4	Soil Aquifer Treatment	SAT for Wastewater Treatment and Reuse (2) - Examples/Case studies	45 minutes (11:45-12:30)	<a href="#">DHV - Jos Peter</a> <a href="#">DHV</a>
			<b>Lunch (1 h)</b>	
Session 5	Soil Aquifer Treatment	Design and Operational Aspects of SAT (1)	45 min (13:30-14.15)	<a href="#">DHV - Jos Peter</a> <a href="#">DHV</a>
Session 46	Soil Aquifer Treatment	Design and Operational Aspects of SAT (2)	45 min (14:15 - 15:00)	<a href="#">DHV - Jos Peter</a> <a href="#">DHV</a>
			<b>Coffee (15 min)</b>	
Session 7	Soil Aquifer Treatment	Design and Operational Aspects of SAT (3) - Calculations	45 min (15:15-16:00)	<a href="#">DHV - Jos Peter</a> <a href="#">DHV</a>
Session 8	Exercise		1 h (16:00-17:00)	<a href="#">DHV - Jos Peter</a> <a href="#">DHV</a>
<b>1211.0407.20</b> <b>11</b>	<b>Topic</b>	<b>Description</b>	<b>Length</b>	<b>Method/Speaker or Trainer</b>
Session 1	Desalination	Water hierarchy and state of the art of desalination	30 minutes (09:00-9:30)	<a href="#">DHV – Avraham Zavdi</a> <a href="#">DHV</a>
Session 2	Desalination Externalities	Energy, environment and cost as related to desalination and IWRM	1 hour 15 min (9:30-10:45)	<a href="#">DHV – Avraham Zavdi</a> <a href="#">DHV</a>
			<b>Coffee (15 min)</b>	
Session 3	Sustainable Desalination	Desalination as a sustainable source	45 minutes (11.00 - 11.45)	<a href="#">DHV – Avraham Zavdi</a> <a href="#">DHV</a>
Session 4	SWIM Assessment	Assessment of Best Available Technologies (BAT) for Desalination in Rural/Local Areas	45 minutes (11:45-12:30)	<a href="#">DHV – Avraham Zavdi</a> <a href="#">DHV</a>
			<b>Lunch (1 h)</b>	
Session 5	Desalination Options	Interactive discussion with participants on desalination as an option	45 min (13:30-14.15)	<a href="#">DHV – Avraham Zavdi</a> <a href="#">DHV</a>
Session 46		Presentations by participants	45 min (14:15 - 15:15)	
			<b>Coffee (15 min)</b>	
Session 7		Evaluation	45 min	<a href="#">DHV - Jos Peter</a> <a href="#">DHV</a>



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			(15:15-16:00)	
Session 8		Certificates and closure	1 h (16:00-17:00)	<a href="#">SWIM-SM H2020</a> <a href="#">SWIM-SM-H2020</a>
<b>1312.0407.20</b> <b>11</b>	<b>Site Visit</b>			
		<a href="#">ShafDan Watewater treatment plant</a>		