

# SWIM and Horizon 2020 Support Mechanism

Working for a Sustainable Mediterranean, Caring for our Future

## Session I: SWIM-H2020 SM: Where we are and what is still to happen in Jordan Implementing the Jordan work programme

Presented by SWIM-H2020 SM Team members:

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SWIM-H2020 SM National Meeting: Jordan

Supporting sustainable water resources and a clean environment in the Mediterranean region

Amman, 29 November 2018

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# SWIM-H2020 SM in a Snapshot

## Profile

The EU-funded **SWIM-H2020 SM Project (2016-2019)**, is a key regional project aiming to contribute to reduced marine pollution and sustainable use of scarce water resources in the Mediterranean Region with emphasis on the **countries of North Africa and the Middle East**.

## Components of the Project

The Project is the continuation and merging of two successful previous EU-funded Programmes: Horizon 2020 Capacity Building/Mediterranean Environment Programme (H2020 CB/MEP) (2009-2014) and the Sustainable Water Integrated Management Support Mechanism (SWIM SM) (2010-2015).

# SWIM-H2020 SM

## The Project is to:

Provide tailored and targeted technical assistance at national level based on partners' requests through an Expert Facility;

Organize regional (or sub-regional) peer-to-peer training seminars and webinars;

Conduct on-site training courses and study tours;

Capitalize on the lessons learnt, good practices and success stories;

Support logistically and technically the Horizon 2020 Initiative's Steering Group & Sub Groups and the Meetings of the Union for the Mediterranean's Water Experts Group.

# SWIM-H2020 SM Expected Results

## In order to Achieve:

Positive changes in the design and implementation of the relevant national institutional, policy and regulatory frameworks;

Enhancement of partner countries' capacity to promote investment and business opportunities for properly managing municipal waste, industrial emissions and waste water;

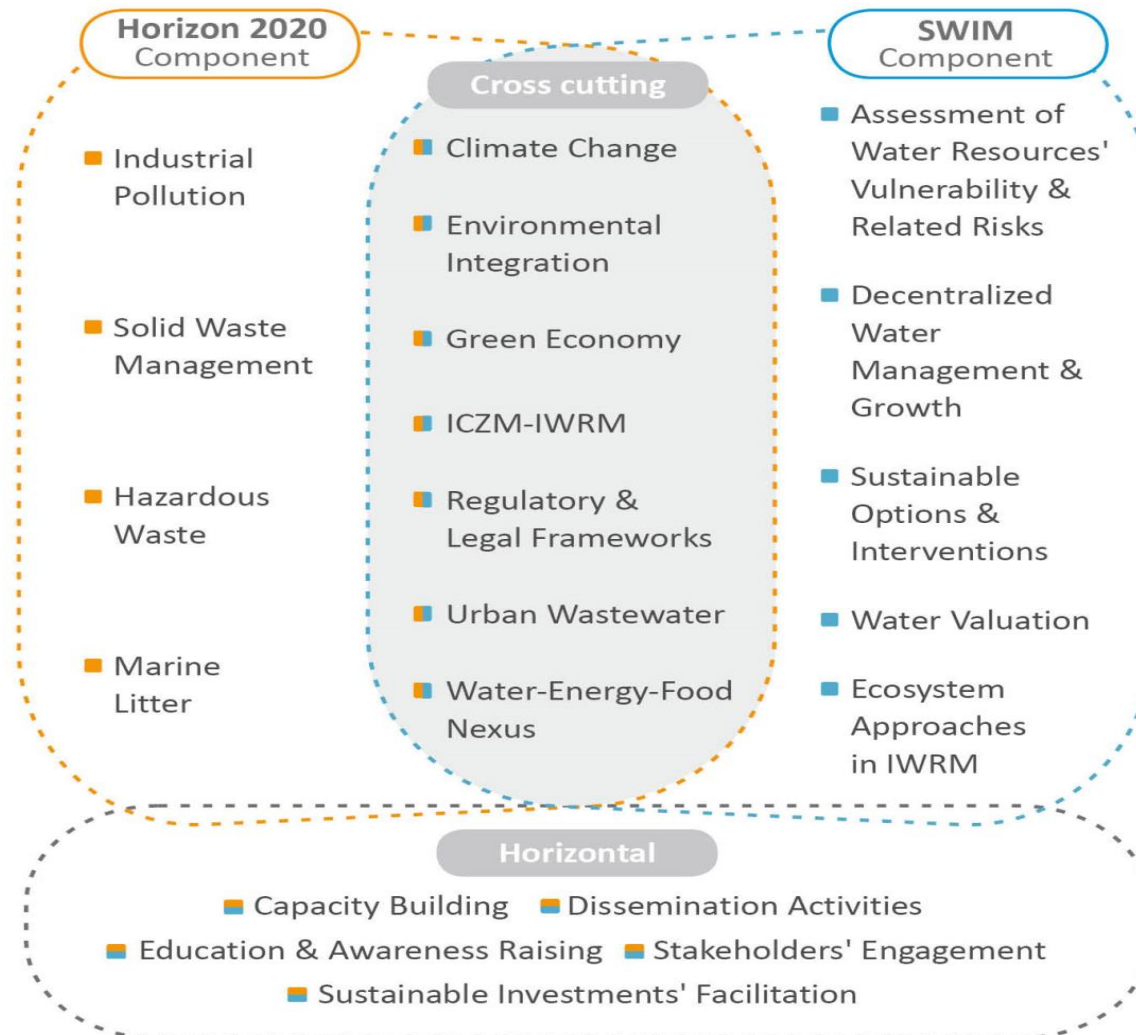
Facilitation of access to finance for selected sustainable investment projects;

Strengthening of regional coherence and cooperation in approaches to marine pollution prevention and control, and sustainable water management;

Identification, testing and sharing of best practices and success stories;

Use of research results in policy making – enhancement of more sustainable practices.

# SWIM-H2020 SM Themes



# SWIM-H2020 SM Cooperation

## Framework of Cooperation

The project is based on synergies, which are further developed and supported through:

- **The SWIM-H2020 SM Focal Points (FPs)** in the Ministries in charge of Water and Environment of the Partner Countries, which also constitute the SWIM-H2020 SM Steering Committee.
- **Regional bodies forming the Institutional Partners** of the Project, namely:
  - the **Union for the Mediterranean (UfM)**, assisting on issues linked with the draft Strategy for Water in the Mediterranean, the Water Strategy in the Western Mediterranean (5+5), projects and investments related with Mediterranean pollution Hot Spots.
  - the **Mediterranean Action Plan of UN Environment (UN Environment/MAP)**, supporting activities related to the Land Based Sources (LBS), the Hazardous Wastes and Integrated Coastal Zone Management (ICZM) Protocols of the Barcelona Convention as well as the revised National Action Plans (NAPs).
- **Relevant EU Institutions** (including DG ENV, NEAR, Research, MARE, etc.) such as the European Investment Bank (EIB) which coordinates the Mediterranean Hot Spots Investment Programme II (MeHSIP II) and **Agencies** such as the European Environment Agency (EEA), which coordinates the Shared Environmental Information System (SEIS) South.
- **Other Regional Initiatives and Projects** (SwitchMed, BlueGreen Med CS, CLIMA South, etc.).

# SWIM-H2020 SM Consortium



**LDK Consultants S.A. (Leader)**  
**LDK Consultants Europe S.A.**



**Haskoning DHV Nederland B.V.**



**Arab Countries Water Utilities Association (ACWUA)**



**Mediterranean Information Office for Environment, Culture and Sustainable Development (MIO - ECSDE)**



**Arab Network for Environment and Development "RAED"**



**Milieu Ltd**



**Association of Cities & Regions for Recycling and Sustainable Resource Management (ACR+)**



**National and Kapodistrian University of Athens (UoA)**



**Catalan Waste Agency (hosting institution of Regional Activity Centre for Sustainable Consumption and Production (SCP/RAC))**



**Umweltbundesamt GmbH**



**EEIG UT – SEMIDE**



**WS Atkins International Ltd**



**GLOBE ONE LTD**



# SWIM-H2020 SM in Numbers

## The Project in Numbers

<b>1</b>	Support Mechanism
<b>2</b>	Components (SWIM and Horizon 2020)
<b>8</b>	Partner (Beneficiaries) Countries (active)
<b>19</b>	Major Synergies
<b>14</b>	Consortium Partners
<b>39</b>	Months (2016-2019)
<b>6.705.250</b>	Euros Budget
<b>21</b>	Themes
<b>Over 100</b>	Activities out of which <b>50</b> are National and <b>35</b> (sub) Regional and other meetings with participation from <b>Western Balkans and Turkey</b>
<b>24</b>	Annual Meetings
<b>11</b>	Categories of Stakeholders involved
<b>2</b>	Websites (Project & H2020)
<b>2</b>	Social Media Pages (LinkedIn, Facebook)

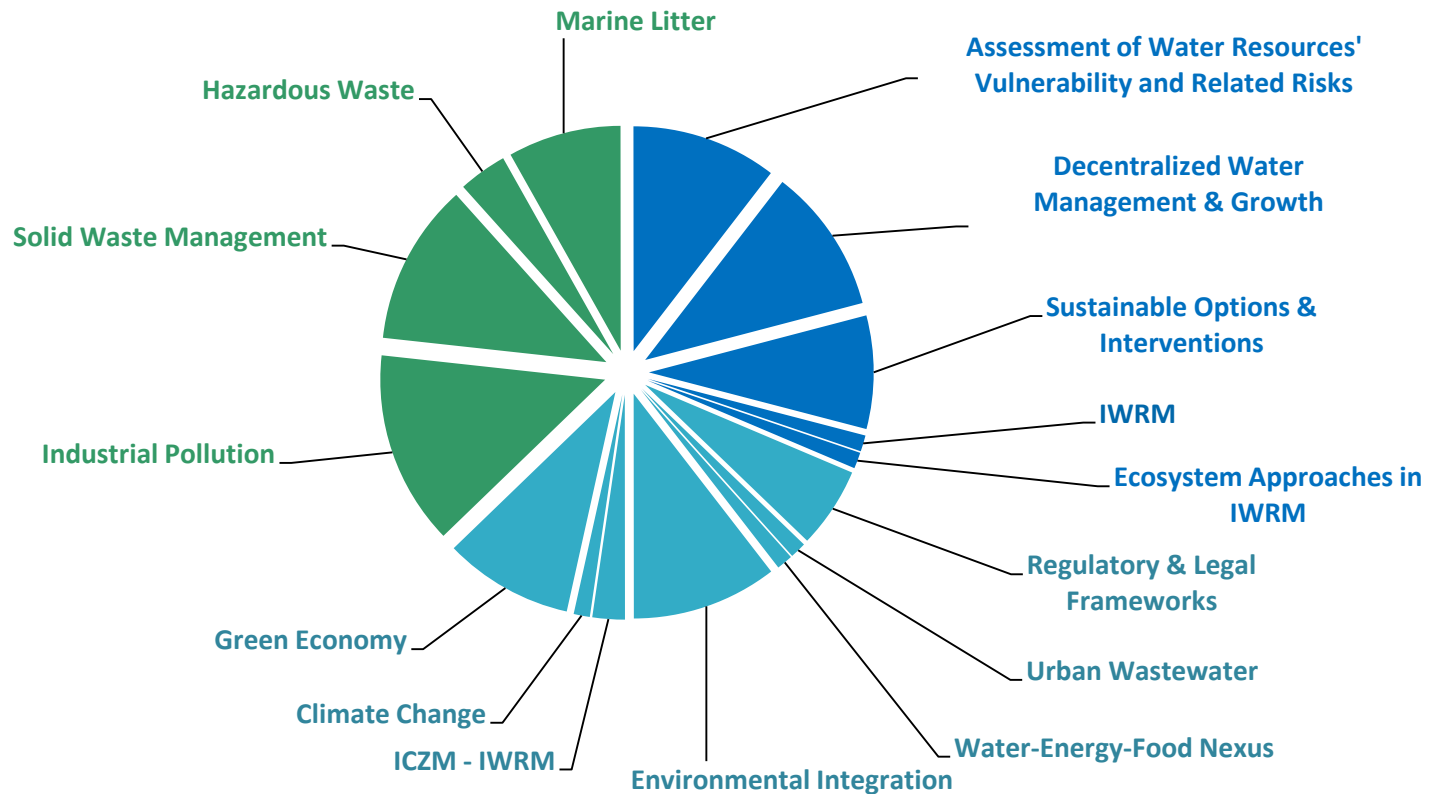


# SWIM and Horizon 2020 Support Mechanism at a glance

85 activities under 15 themes for both **Water** and **Environment**

## H2020 Themes

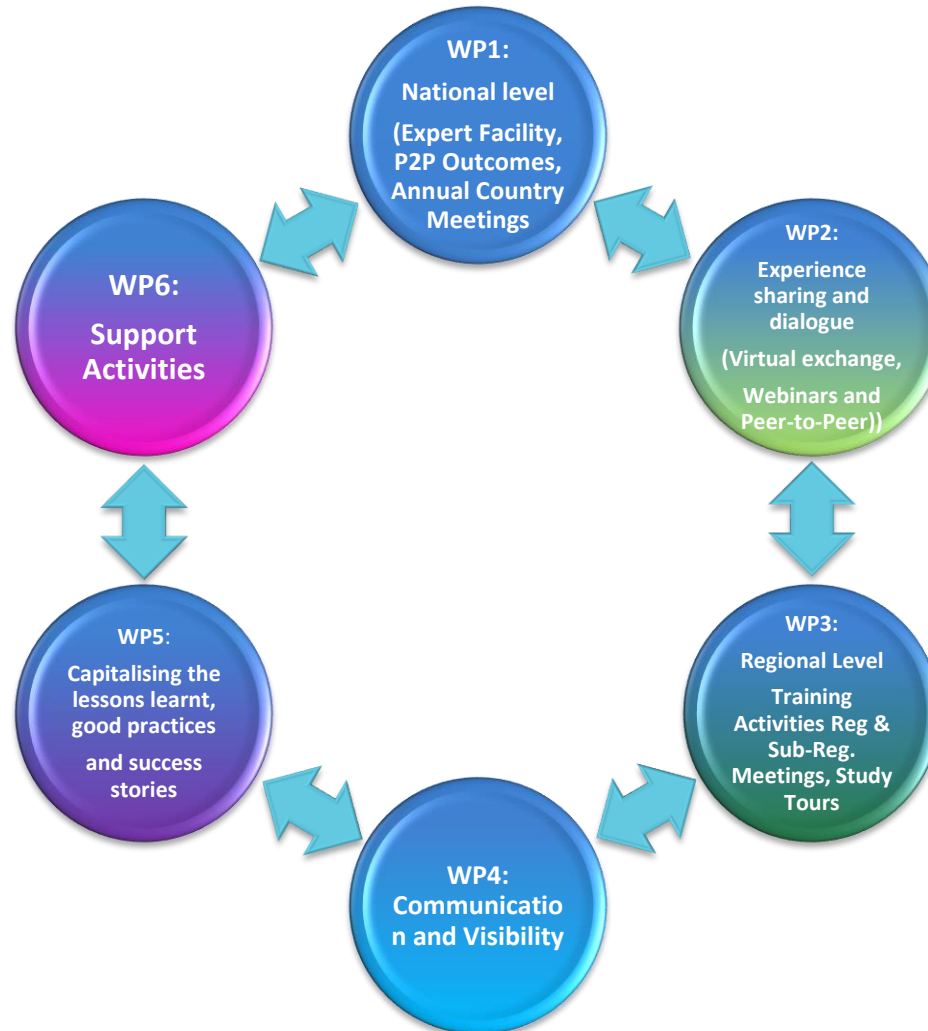
## SWIM Themes



## Cross-Cutting H2020/SWIM Themes

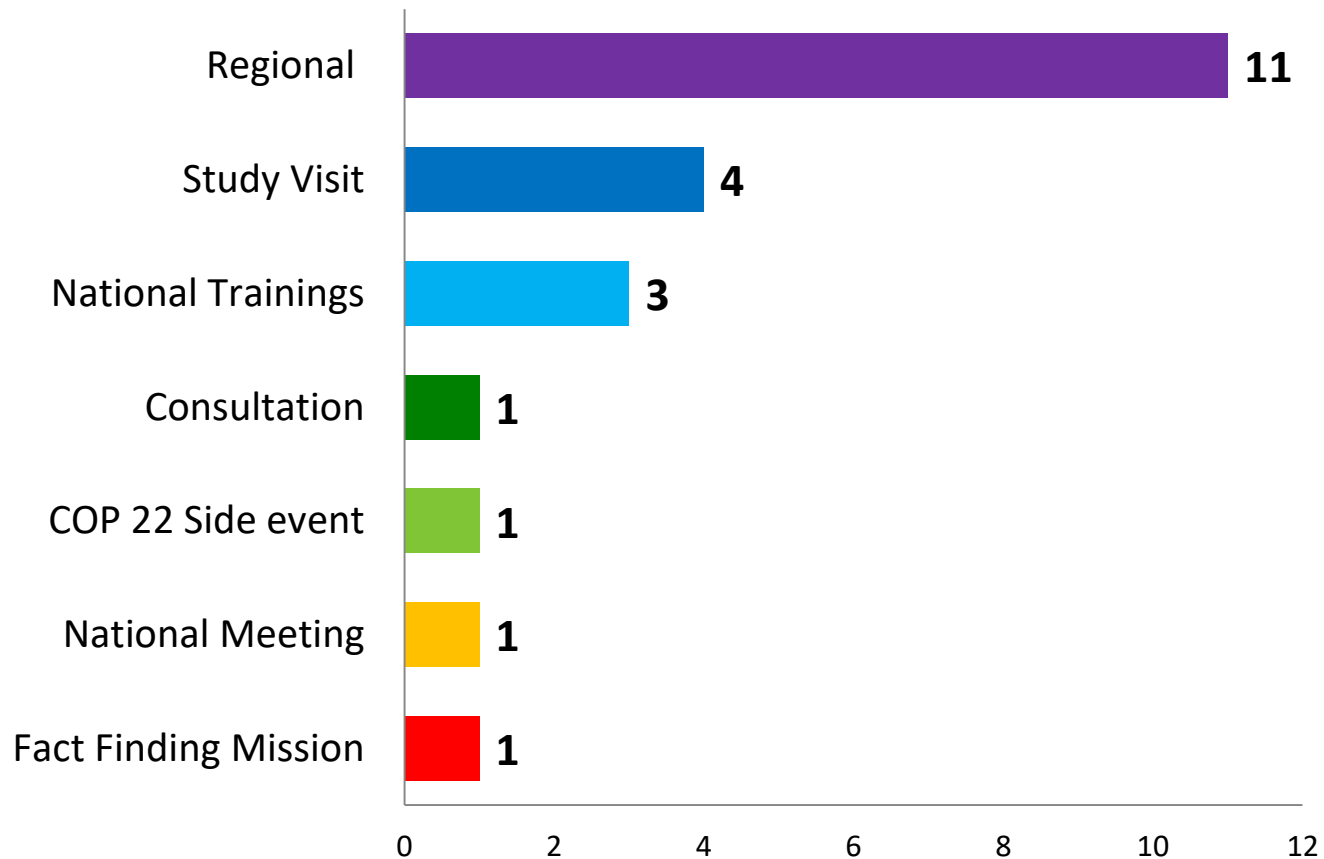
# SWIM and Horizon 2020 Support Mechanism at a glance

## Structure



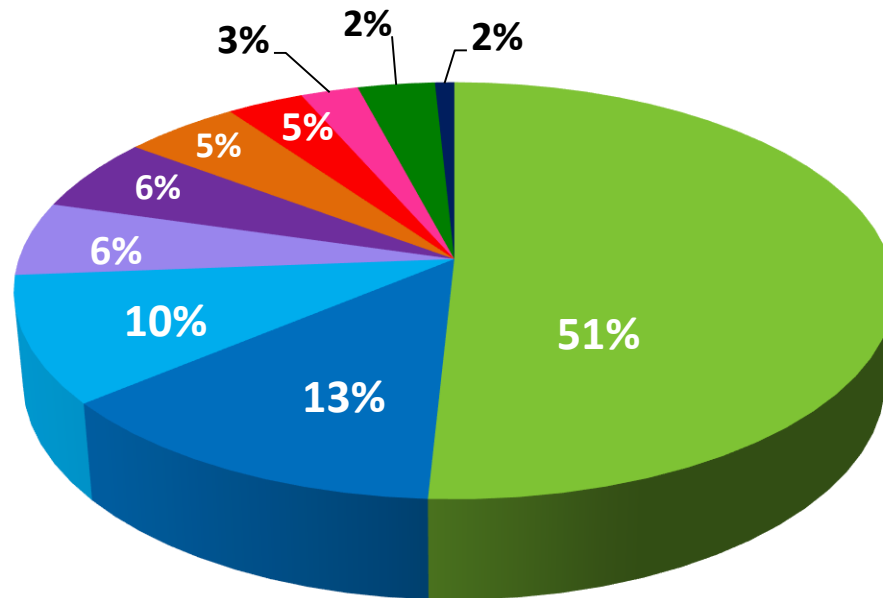
# Stakeholder Engagement

**122+ Jordanians professionals have participated in the Project's Activities to date**



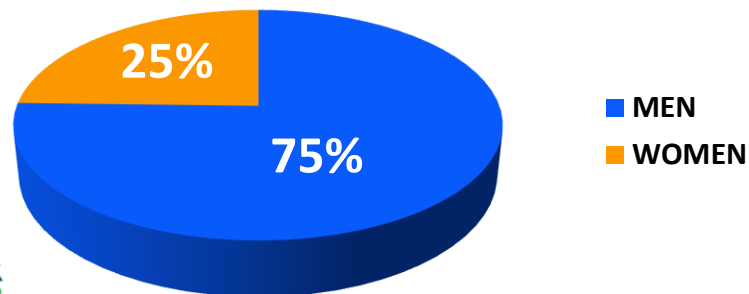
# Stakeholder Engagement

## Type of Institutions



- MINISTRY REPRESENTATIVES
- GOVERNMENT AGENCIES
- NGOs
- LOCAL AUTHORITIES
- ACADEMIA AND RESEARCH INSTITUTES
- OTHER
- INTERNATIONAL ORGANISATIONS AND PROGRAMMES
- EUD
- DONORS AGENCIES
- PRIVATE SECTOR

## Gender of Participants



# SWIM-H2020 SM: Assessment process

## SWIM-H2020 SM methodology for enhancing and assessing its capacity building activities

- Assessment quizzes/exercises (before/after training/study visit)
- Evaluation forms at the end of each training/study visit
- Post training questionnaires
- Deepening interviews
- Feedback: emails, reports, etc.
- Steering Committee Meetings of the project

# SWIM-H2020 SM Expert Facility: Environment Component - 2 activities in Jordan

## EFH-JO-1 : Support the Project Management Units, targeting the local level

Description of the activity	Status	%
Cancelled/days Re-routed to EFH-JO-3 (See hereafter)		Cancelled

# SWIM-H2020 SM Expert Facility: Environment Component - 2 activities in Jordan

## EFH-JO-2: Enhancing environmental awareness and support for implementing Education for Sustainable Development

Description of the activity	Status	%
<p><b>Strengthening of public awareness and Education for Sustainable Development, introducing the Mediterranean Strategy on Education for Sustainable Development (MSESD) and exploring options on how its recently adopted Action Plan can be applied in Jordan.</b></p> <p><i>(Promoting a shift away from the use of plastic bags and/or the use of non-conventional water resources)</i></p>	<ul style="list-style-type: none"> <li>- Training of trainers “Enabling educators on implementing Education for Sustainable Development (ESD)” was organized in September 2017;</li> <li>- An Inter-institutional consultation was also organized back-to-back with the above-mentioned training on September 2017;</li> <li>- The report on all of the meetings was approved in February 2018.</li> <li>- The ‘Follow-up’ report on ESD pedagogies and MSESD Action Plan implementation was also finalised (Task 3).</li> <li>- Jordan is advancing since the completion of the project tasks in advancing its National ESD Strategy.</li> </ul>	<p>100%</p>

# SWIM-H2020 SM Expert Facility: Environment Component - 2 activities in Jordan

## EFH-JO-3: Capacity building for preventing pollution through shifting towards Green Economy and Sustainable Consumption & Production (legal and economic instruments and incentives to promote circular economy and SCP)

Description of the activity	Status	%
<p><b>To strengthen the capacity of the targeted stakeholders to identify, develop and promote green investments, overcoming current obstacles, including - but not limited to - finance opportunities and options.</b></p> <p><b>Overall, the aim is to enhance the enabling environment for private sector engagement in the fields of Waste, Transport and Energy Efficiency.</b></p>	<ul style="list-style-type: none"> <li>- Additional days were allocated to this activity from deleted EFH-JO-1 and the TORs were approved in September 2018.</li> <li>- Implementation is underway with the 1<sup>st</sup> workshop with parallel trainings of 27-28 November 2018 in Amman: PROMOTING SCP and GREEN ECONOMY FOR WASTE, ENERGY AND TRANSPORT SECTORS IN JORDAN</li> </ul>	<p>50%</p>



# SWIM-H2020 SM Regional Activities

## Environment Component - **16** activities ongoing and **1** planned

Code	Activity	Description
ST-1 & P2P-1	<b>Study Visit on Construction and demolition waste</b>	Study visit on construction and demolition waste organized in September 2017 in Belgium.
REG-1	<b>Overview of the developments in Europe and the Mediterranean on Marine Litter monitoring. Correlations with policies dealing with the use of plastics (particularly plastic bags)</b>	Training was organized in Athens on 24 and 25 October combined with another EU funded project, ACT4Litter. Links to national activities in Algeria, Egypt and Morocco are established, as well as with P2P-3 and WEB-2. Links also with other regional projects on marine litter.
ST-2 & P2P-2	<b>Visit to different types of state-of-the-art Sludge Management Systems (focusing on possibilities and conditions for utilization/different applications)</b>	Study visit organized from 25 to 27 June 2018 in Athens, Greece. The report has been finalized. P2P-2 was launched in Athens on 25-27 June 2018 and is underway.

# SWIM-H2020 SM Regional Activities

Environment Component - **16** activities ongoing and **1** planned

Code	Activity	Description
ST-3	<b>Visit to a site where combined ICZM – IWRM (including groundwater) is applied</b>	Study visit organized in Buna - Bojana, Montenegro, 16-17 July 2018. The report has been finalized.
ST-4	<b>Study Visit on industrial and hazardous wastes (Case of leachate treatment)</b>	Study tour organized in June 2018 in Lebanon with focus on leachate management (ST-4) (in combination with the training EFH-LB-2).
P2P-6	<b>Peer-to-peer on the management of industrial waste to address the acute problem of hazardous substances disposal</b>	Launch of P2P exchange at the end of the study visit with Peers from Jordan and Palestine (focus still to be determined)

# SWIM-H2020 SM Regional Activities

Environment Component - **16** activities ongoing and **1** planned

Code	Activity	Description
REG-2	<b>Promoting the role of green banking in supporting investments in the water sector, particularly with the involvement of private banks</b>	<ul style="list-style-type: none"><li>•Regional training was integrated into the Conference on "Water Governance in the MENA Region and the Greater Mediterranean Region: Enhancing Integrity and Financing Water Security and Sustainable Development" organized on 12-14 December, 2017 in Barcelona, Spain.</li><li>•All material, presentations, workshop briefing note and agenda were uploaded to the project website.</li><li>•The Jordanian Association of Banks also participated. They also participated in the relevant P2P with Lebanese Peers, culminating in a workshop that took place in Lebanon on 5 July 2018, where the Jordanian Association of Banks presented a report with the results of their work.</li></ul>

# SWIM-H2020 SM Regional Activities

## Environment Component - **16** activities ongoing and **1** planned

Code	Activity	Description
REG-3 & P2P-5	In depth examination of the management schemes for wastes from food industry, particularly olive oil mills	<ul style="list-style-type: none"><li>• <b>The regional training</b> was organized from 4 to 7 December 2017 in Athens, Greece. The report has been finalized.</li><li>• <b>P2P-5 launched</b> at the end of the REG-3 training and study tour “Sustainable Management of Olive Oil Mills” organised on 4-7 December 2017, in Athens, Greece.</li><li>• Exchange lessons learned (excellence, challenges and obstacles) regarding olive oil mills’ waste management (and the olive oil sector in general). Jordan, Lebanon and Egypt participated.</li><li>• Result: the organisation of a national workshop in Cairo on the 29th of September 2018 on the same issue. It was the initiative of the Egyptian Peer together with the Ministry of Environment and other olive oil stakeholders from the private sector. The experience of the Lebanese and Jordanian Peers was a contributor as was that of other Mediterranean countries such as Greece, Spain, etc.</li></ul>

# SWIM-H2020 SM Regional Activities

## Environment Component - **16** activities ongoing and **1** planned

Code	Activity	Description
REG-10	<b>Regional Training on Education for Sustainable Development (ESD)</b>	<p>Regional training organized on 22-24 November 2017 in Nicosia, Cyprus.</p> <p>A joint meeting of parliamentarians, representatives of ministries and stakeholders (including from Jordan) also took place in the Cypriot Parliament.</p> <p>The report is developed and uploaded to the site.</p>
REG-12	<b>Public participation/ Multi stakeholder dialogue involving Parliamentarians, Representatives of Media and CSOs</b>	<p>Regional training entitled "Strengthening Stakeholder Engagement in Mediterranean Environment and Water Programs" held on 20-22 November in Nicosia, Cyprus.</p> <p>The main results were shared with the UfM Secretariat and the Horizon 2020 Steering Group.</p> <p>The report has been finalized and uploaded to the website.</p>

# SWIM-H2020 SM Regional Activities

Environment Component - **16** activities ongoing and **1** planned

Code	Activity	Description
REG-14	<b>Refugee Emergency: Fast track project design on water, waste water and solid waste (focusing on wastewater and solid waste)</b>	The capacity of the technical staff of the water, wastewater and solid waste sectors of Jordan, Lebanon, Palestine and Tunisia has been strengthened in the design of appropriate wastewater and solid waste management projects. Participants' understanding of the needs for wastewater and solid waste management solutions that can be used in temporary settlements / camps and / or long-term or permanent facilities is improved. Training was also supported/mentored by MEHSIP.
REG-15	<b>Support for the implementation of the PCs' updated UNEP/MAP NAPs</b>	Regional Meeting on NAP Implementation "Lessons Learned and the Way Forward" co-organized by UNEP / MAP and SWIM-H2020 SM, 17-18 October 2016 in Marseille, France.
P2P-3	<b>Peer-to-peer monitoring of marine litter (Algeria, Egypt and Morocco).</b>	Peer-to-peer monitoring of marine litter (Algeria, Egypt and Morocco).

# SWIM-H2020 SM Regional Activities

Environment Component - **16** activities ongoing and **1** planned

Code	Activity	Description	Participants
<b>REG-9 Planned</b>	<b>Fostering a switch to Green Economy in the Mediterranean: Capacity building for SMEs and Policy makers on eco-design, eco innovation and enabling policies</b>	<ul style="list-style-type: none"><li>• This regional workshop is scheduled to take place in Barcelona on December 11-13, 2018.</li><li>• The title is "Fostering the transition to a green economy in the Mediterranean: building the capacity of SMEs and decision makers in eco-design, environmental innovation and enabling policies.</li><li>• Invitations for candidates were sent in October 2018.</li></ul>	4

# SWIM-H2020 SM Expert Facility: Water Component - 2 activities in Jordan

## EFS-JO-1: Mainstreaming Drought Risk Management, with a focus on proactive measures

Description of the activity	Status	%
<p><b>Aim:</b> support the water sector in Jordan in enhancing its preparedness and response to drought-related natural disasters through the <b>development of tools and procedures for managing drought risk in the pilot area of Amman-Zarqa basin (AZ)</b>, which can be then replicated in other areas in Jordan and the region</p>	<p>Completed:</p> <ul style="list-style-type: none"> <li>- Drought identification, characterization and mapping in the AZ catchment on the basis of drought hazard indicators</li> <li>- Drought vulnerability assessment and mapping in the AZ on the basis of drought vulnerability indicators</li> <li>- Training of MWI staff on setting up and calibrating the WEAP model for the AZ (February 2018)</li> <li>- Training of the MWI staff on the application of the WEAP-ArcAWAT model in drought assessment and management for AZ (September 2018)</li> <li>- Training on drought monitoring and early warning systems (July 2018)</li> <li>- A national consultation workshop involving relevant stakeholders to define a Roadmap towards the development of the AZ Drought Risk Management Plan (i.e. definition of targets, preliminary list of proactive measures, definition of actions and roles, identification of entry points for mainstreaming the DRMP, etc.) (November 2018)</li> </ul> <p>On-going:</p> <ul style="list-style-type: none"> <li>- A documentation report for the AZ WEAP model is under finalization</li> </ul>	<p>90%</p>



# SWIM-H2020 SM Expert Facility: Water Component - 2 activities in Jordan

## EFS-JO-2: Socio-Economic Impact Assessments of Groundwater Over-Abstractions in Azraq Basin

Description of the activity	Status	%
<p><b>Aim:</b> assess the socio-economic impact of groundwater over-exploitation scenarios in Azraq basin and the socio-economic impact of enforcement of groundwater by-laws and the new groundwater policy, based on which a proposal for different options to mitigate the impact of reduction in groundwater abstractions including scenarios for alternative income generating activities will be prepared.</p>	<p>The following has been completed to date:</p> <ul style="list-style-type: none"> <li>- Data collection</li> <li>- Assessment of the socio-economic contribution of Azraq basin to the national economy (by sector).</li> <li>- Scenarios for groundwater abstractions: Business as usual scenario and plausible growth in abstractions</li> <li>- Model to simulate the impacts of groundwater over-abstractions and quantification of the Impacts of the two GW abstraction scenarios on the groundwater.</li> <li>- Socio economic impacts of lowering of the water tables, dry-out of shallow aquifers and salinity (by sector)</li> <li>- Proposal for sector reform to reduce groundwater over-abstractions is currently under preparation, after which the socioeconomic impacts of such reform will be evaluated and mitigation measures identified</li> </ul>	<p>75%</p>

# SWIM-H2020 SM Regional Activities:

## Water Component - 12 activities in Jordan

Code	Activity	Description
REG-4	Regulatory and organizational <b>issues of decentralized water management</b> , dealing also with drafting and implementation of <b>management plans at sub-national level</b> and the role/importance of Information Management in Water Resources Planning and Management at the local level	The stakeholders were introduced to the concepts and approaches of the Water Framework Directive as an instrument applied in Europe to promote decentralized water management (DcWM). Dialogue and exchanges.
REG-5		The stakeholders were introduced to the (a) basic principles of public participation and effective public engagement processes; (b) the data requirements for River Basin Management Plan (RBMP); and (c) the concept of groundwater bodies as unit for water management and protection at the local level.
ST-5		Through the study tour, the participants were able to learn from the experience of the public institutions in Austria, which offer good examples on decentralized water management. Inside view on the tasks of various water managing institutions in implementing surface and groundwater quality protections measures in agricultural areas, decentralised water supply and wastewater treatment in rural areas of Austria.

# SWIM-H2020 SM Regional Activities:

## Water Component - 12 activities in Jordan

Code	Activity	Description
REG-6	Different technical and regulatory aspects of <b>Drought Risk Management</b>	The stakeholders were introduced to the concepts of proactive Drought Risk Management (DRM) and DRM mainstreaming and were engaged in the design of further regional activities under the same topic.
REG-7	Regional Training on <b>Drought Risk Analysis and Mapping</b>	The stakeholders were introduced to different types of drought indicators, and improved their technical capacity on the development and analysis of indicators (in support of decision-making) and drought risk mapping.
ST-6		The stakeholders were introduced to good practices / measures for drought risk management in the Segura River Basin in Spain.
P2P-9		A Jordanian expert (peer) is participating in technical exchanges focused on the monitoring and mapping of drought risk with three other Tunisian, Egyptian and Palestinian peers and a Greek expert. Critical issues and points common to all counterpart countries have recently been agreed, with emphasis on the institutional aspects of drought monitoring and management, based on the experience of Greece.
WEB-4		Webinar on monitoring and mapping of drought risks involving the peer designated by Jordan.

# SWIM-H2020 SM Regional Activities:

## Water Component - 12 activities in Jordan

Code	Activity	Description
REG-8	Regional Training on Technical, Regulatory and Cultural <b>aspects of Treated Wastewater Reuse</b>	Reinforced knowledge on the guidelines and standards to be applied to ensure safe reuse in the different types of use Increased competence in governance arrangements for the wastewater reuse sub-sector through, e.g. options for covering investment and operating costs, institutional arrangements, public-private partnerships, etc.
P2P-10	Treated Waste Water Reuse (TWWR)/ Focus Group: Experience in treated wastewater reuse	A Jordanian expert (peer) is offering expertise on regulatory aspects of treated wastewater applied in Jordan as part of a targeted technical exchange between Jordan and two recipient/beneficiary peers (one Moroccan and one Algerian). The activity (another type of training) was supervised by a specialized expert in Egypt (the coach), selected by the project. The exchanges were completed at the beginning of November 2018.
REG-11	Reviewing <b>good governance schemes</b> with emphasis on the <b>implementation and enforcement of legislation</b> , needed regulatory reforms and introduction of appropriate incentives	Participants gained a better understanding of the key principles, elements and benefits of good governance, with a focus on the regulatory framework. They have been familiarised with approaches and methods for effective policy design, monitoring and evaluation, including the DPSIR framework (Drivers, Pressure, Status, Impact and Response), Strategic Environmental Assessment (SEA) and environmental audit.

# SWIM-H2020 SM Regional Activities: Water Component - 12 activities in Jordan

Code	Activity	Description
REG-14	Refugee Emergency: Fast track project design on water, waste water and solid waste (focusing on wastewater and solid waste)	The capacity of the technical staff of the water, wastewater and solid waste sectors of Jordan, Lebanon, Palestine and Tunisia has been strengthened in the design of appropriate wastewater and solid waste management projects. Participants' understanding of the needs for wastewater and solid waste management solutions that can be used in temporary settlements / camps and / or long-term or permanent facilities is improved. Training was also supported/mentored by MEHSIP

# SWIM-H2020 SM

## For further information

### Website

[www.swim-h2020.eu](http://www.swim-h2020.eu)

[info@swim-h2020.eu](mailto:info@swim-h2020.eu)

**LinkedIn Page**

**Facebook Page**

# SWIM and Horizon 2020 Support Mechanism

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Thank you for your attention.

This Project is funded by the European Union

