

SWIM and Horizon 2020 Support Mechanism

Working for a Sustainable Mediterranean, Caring for our Future.

Presentation of the Countries' needs assessment and proposed programme on Environment related issues, through the Expert Facility (H2020 component)

Presented by:
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This Project is funded by the European Union



umweltbundesamt[®]

ATKINS

History - Background

Continuation and merging of two successful previous EU-funded service contracts

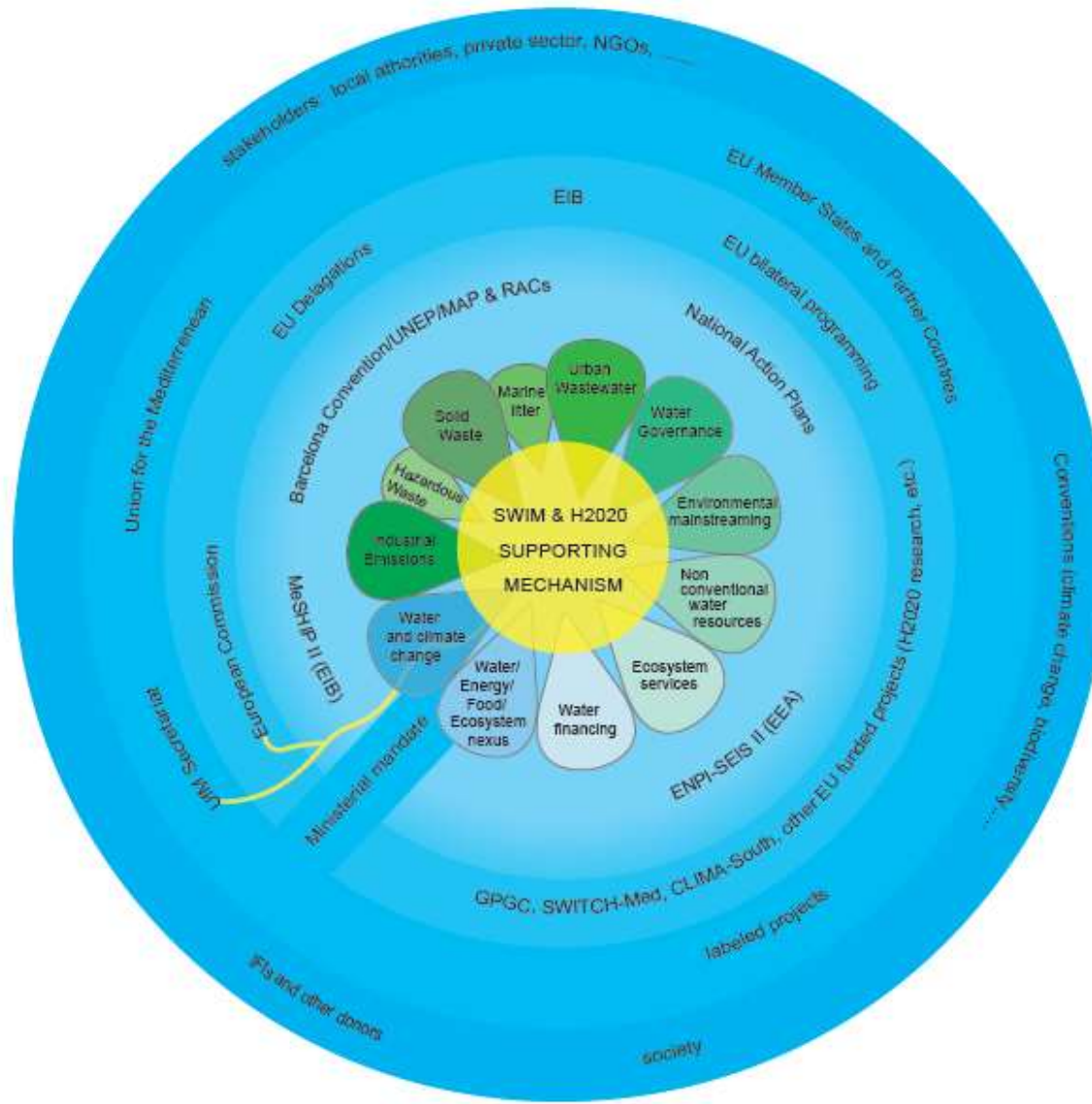
1. Horizon 2020 Capacity Building/Mediterranean Environment Programme (H2020 CB/MEP) (2009-2014)
2. Sustainable Water Integrated Management Support Mechanism (SWIM SM) (2010-2015)

Project Initiation: February 2016

Inception Phase: February 2016 – June 2017

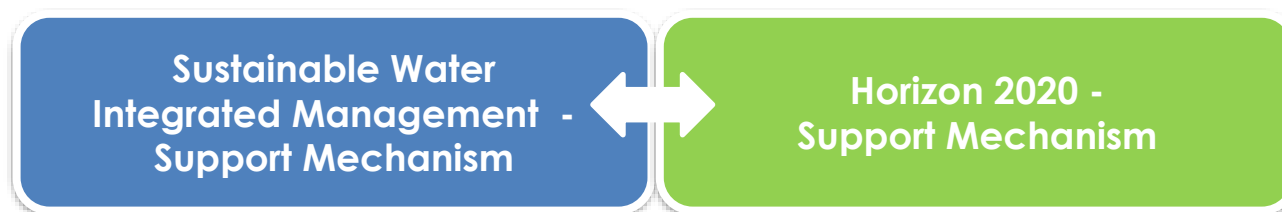
1. Background Search
2. Country Reports
3. Fact-finding Missions in all countries
4. Inception Report including short-term and long-term Work Programme
5. Discussion with the countries to translate their needs into project activities
6. Preparation of ToRs and start of the project implementation

PROJECT context



Project info

COMPONENTS



OVERALL OBJECTIVE:

“to contribute to reduced marine pollution and a more sustainable use of scarce water resources by providing tailored and targeted support to stakeholders of the Beneficiary Countries within each of the six result areas”

OUR CONSORTIUM



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



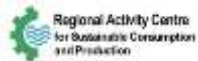
Arab Countries Water Utilities Association (ACWUA)



Arab Network for Environment and Development "RAED"



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



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



EEIG UT – SEMIDE



GLOBE ONE DIGITAL

GLOBE ONE LTD



Haskoning DHV Nederland B.V.



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



Milieu Ltd



National and Kapodistrian University of Athens (UoA)



Umweltbundesamt GmbH



WS Atkins International Ltd

Project info

- **Partner countries:** Algeria, Egypt, Israel, Jordan, Lebanon, Libya, Morocco, Palestine, [Syria], Tunisia

Participation of Albania, Bosnia Herzegovina, Mauritania, Montenegro and Turkey in regional activities can be considered.

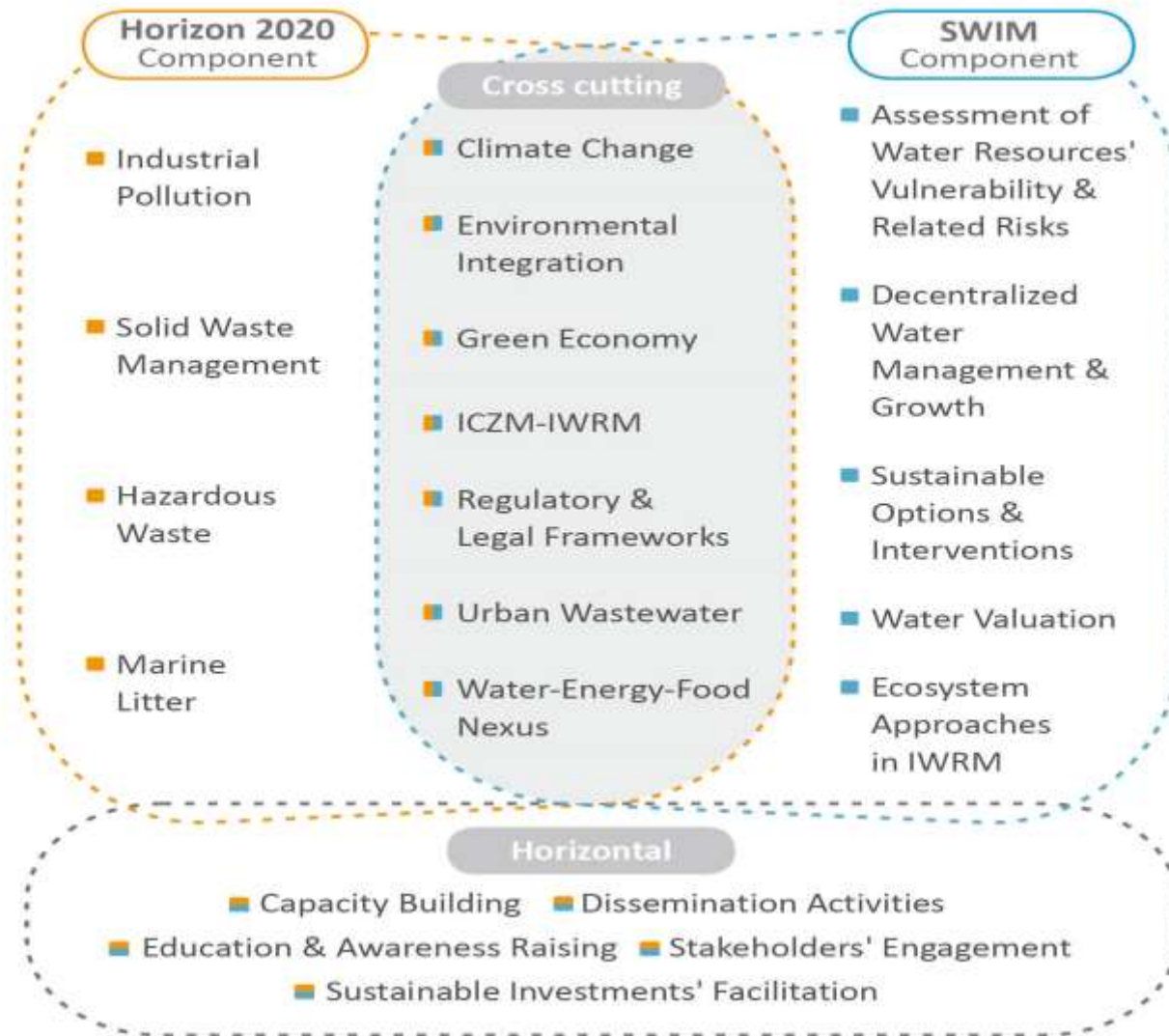
- **Duration:** 36 months
- **Commencement Date:** 1st February 2016
- **Total Budget:** 6.286.000 Euros
- **Client:** The European Commission, DG NEAR1 (Neighborhood and Enlargement Negotiations)

Project info

RESULT AREAS

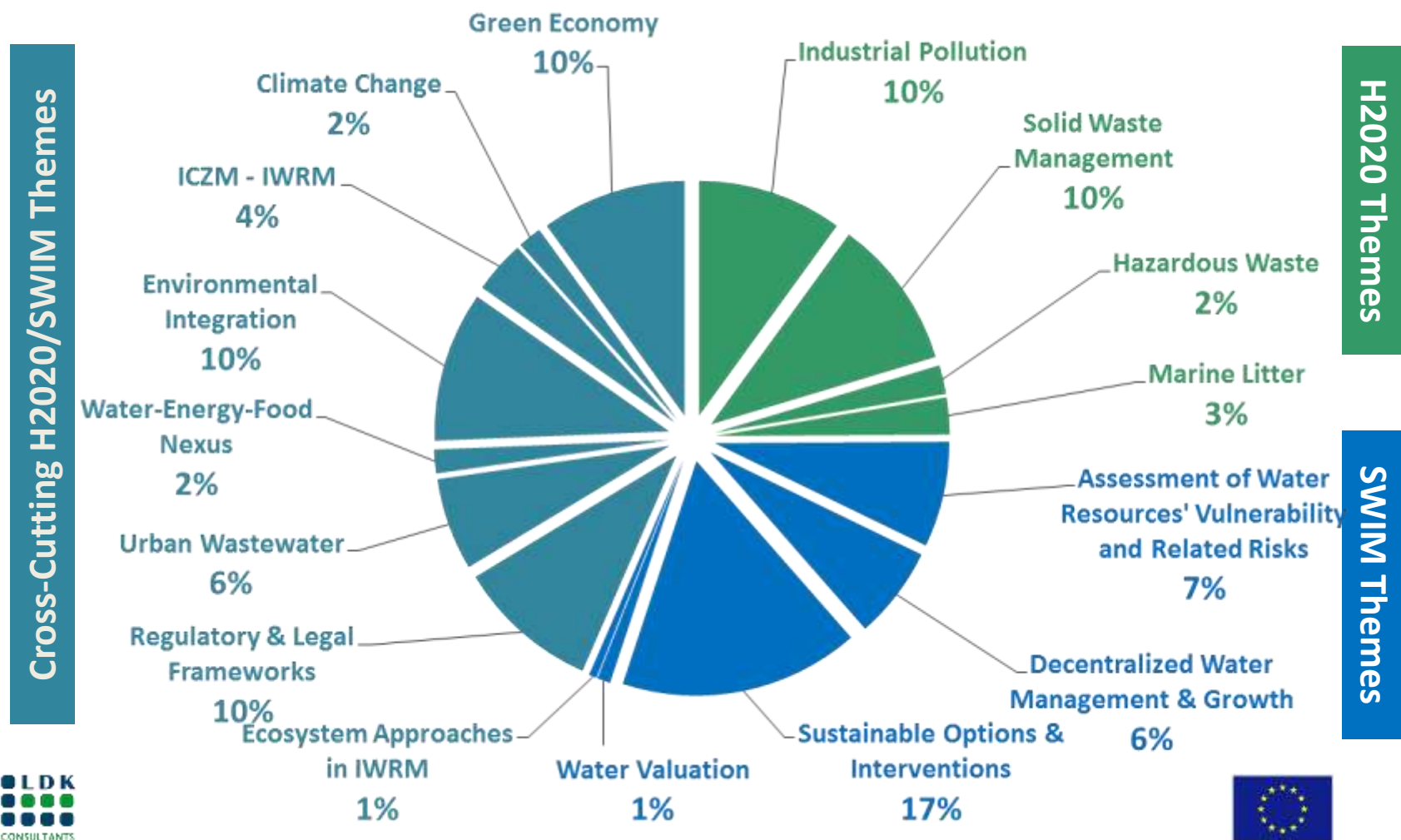
- Positive changes triggered in the design and implementation of the relevant **national institutional, policy and regulatory frameworks**;
- Enhancement of **partner countries' capacity to promote investment and business opportunities** for properly managing municipal waste, industrial emissions and 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.

Main Themes



Needs assessment and proposed programme on Environment related issues

> Requests collected on both **Water** and **Environment** related issues



Needs assessment and proposed programme on Environment related issues

Horizon2020 Themes

Theme	Description	Relevance to Reg. Processes
Industrial Pollution	This theme covers industrial pollution abatement and mitigation in general. Industrial solid waste and wastewater management and treatment ; physical chemical processes; sludge management and treatment; environmental impact assessment and sectoral approaches (e.g. on food and agriculture, including olive oil, etc.) will be tackled.	Horizon 2020 Initiative UNEP/MAP EU Directives
Solid Waste Management	This theme includes the implementation of policy development, technical assistance and capacity building activities on several MSW aspects including: institutional, policy, financial, legislative issues, communication and PPP arrangements . This activity is also intended to enlighten the state of the art in technology , organizational and practices of handling SW, waste collection and transport, moving from low to high levels of recovery and recycling of waste with the involvement, also, of the informal sector , treatment technologies including organic WM and energy recovery .	Horizon 2020 Initiative UNEP/MAP EU Directives
Hazardous Waste	Assistance to implement the commitments under the Hazardous Wastes Protocol and address some emerging issues on hazardous waste including Toxic Chemicals (e.g. POPs) prevention and phase out and also on strengthening the legal frameworks, reforming local taxation, authorization and monitoring , development and implementation of National HWM Master Plans.	Horizon 2020 Initiative EU Directives UNEP/MAP Basel, Rotterdam and Stockholm conventions
Marine Litter	This theme is aiming the enhancements of coordination on marine litter management and related aspects from monitoring and assessment approaches to prevention and mitigation measures. It is also intended to support countries in the implementation of the Regional Plan on Marine Litter Management of UNEP/MAP (e.g. on extended producer responsibility) and to build the necessary synergies in order to address the transboundary aspects of marine litter in a coordinated and harmonized manner.	Horizon 2020 Initiative UNEP/MAP Regional Plan on Marine Litter Management EU Directives

Needs assessment and proposed programme on Environment related issues

Cross Cutting SWIM-H2020 themes

Theme	Description
Environmental Integration	This includes technical assistance and facilitation of institutional reforms, inter-sectorial approaches and actions pushing for the consideration of environmental aspects in decision making and activities of other sectors in order to move towards sustainable development.
ICZM - IWRM	This new theme supports the integrated management of coastal zones (ICZM) in combination with IWRM , through the application of the Integrative Methodological Framework (IMF), aiming also at enhancing the implementation of the ICZM Protocol of the Barcelona Convention and of the related activities under NAPs;
Climate Change	Within the context of SWIM & H2020 SM, activities not covered by other relevant projects may be included, with a focus on integrating adaptation dimensions of climate change in the water and environment sectors.
Green Economy	Through this theme facilitation and promotion of green options (circular economy, cleaner production, eco-efficiency, etc.) related to the various technical approaches employed, will be supported contributing also to the implementation of the Sustainable Consumption and Production Med Action Plan.

Cross Cutting SWIM-H2020 themes

Themes	Description
Regulatory & Legal Frameworks	Under this theme a series of activities are included, related to the development, re-design and consolidation of regulatory and legal frameworks. The latter could facilitate appropriate environmental governance and mainstreaming including better application of IWRM and provision of improved sustainable water supply and sanitation services.
Urban Wastewater	This theme includes many important activities related to wastewater management; sludge treatment; leachate treatment; development of technical skills in operation and maintenance of Wastewater Treatment plants; cheaper and best available technological solutions for Wastewater Treatment; treated wastewater reuse /water recycling; and the use of bio-solids.
Water-Energy-Food Nexus	This new theme includes activities that enhance sustainability and security, cutting-across the domains of water, energy and food production, supply, distribution and use, taking into account also the optimal utilization of ecosystem services.

Regional Activities Work Plan

Themes	Training Activities including Study Tours		Peer to Peer Experience Sharing ² Dialogues including Webinars	
	Regional On site trainings	Study Tours	Peer to Peer	Webinars
Solid Waste Management		xx	xx	
ICZM / IWRM		x		x
Marine Litter	x		x	x
Green Economy	x		x	
Industrial Pollution	x		x	x
Hazardous Waste (and industrial pollution)		x	x	
Decentralized Water Management and Growth	xx	x	x	
Assessment of water Resources Vulnerability and Related Risks	xx	x	x	x
Sustainable Options and Interventions	x		x	
Green Economy	x			
Education and Awareness Raising	x			
Regulatory and Legal Frameworks	x			
Stakeholders Engagement	x			
Sustainable Options and Interventions / Water –Energy- Food Nexus	x			
Sustainable Investment Facilitation	x			
Communication, Dissemination and Administrative Operations	x			

Needs assessment and proposed programme on Environment related issues

Algeria 1

SWIM-H2020 Themes	Related Country Requests	Expert Days	Link with the regional activities	Relevance to the Country's Strategic Framework
Environmental Integration	Development and use of governance models and <u>implementation of PNAEDD</u> actions	58	Support for the implementation of NAPs	<ul style="list-style-type: none"> • Support the development and implementation of Communal schemes (<u>master plans</u>) - PNAEDD and PROGDEM; • Capacity enforcement is needed to achieve proper implementation of the policies and legislations.
Environmental Integration	<u>Awareness and education</u> about non-conventional water resources	10	Awareness, Education for Sustainable Development	<ul style="list-style-type: none"> • ESD has not yet been introduced systematically in the schooling system and it has been even less used in public awareness raising;
Green Economy	Support to the development of a package of measures to increase businesses competitiveness through the implementation of eco-efficiency in production and consumption processes	25	Green economy, circular economy, SCP, CSR, green banking	<ul style="list-style-type: none"> • Commitments in the field of green economy confirmed in the country's 2015-2019 five-year program; • Contribution to the achievement of the Sustainable Development Goals, the National Sustainable Development Strategy and the National Development Plan for renewable energy and energy efficiency.

Needs assessment and proposed programme on Environment related issues

- Marine litter and plastic waste management
- Regional plan for Marine litter management

Algeria 2

SWIM-H2020 Themes	Related Country Requests	Expert Days	Link with the regional activities	Relevance to the Country's Strategic Framework
Marine litter	Characterization of <u>marine and coastal litter on fourteen (14) coastal wilaya</u>	10	Marine litter and plastic waste	<ul style="list-style-type: none"> • Support the implementation of the obligations and measures relevant to the <u>Regional Plan for Marine Litter Management</u> in the Mediterranean of the BC; • Contribute to the national strategy for ICZM.
Marine litter	Support for the development of a <u>national management plan for coastal waste and marine litter</u>	15	Marine litter and plastic waste	<ul style="list-style-type: none"> • Support the implementation of the obligations and measures relevant to the <u>Regional Plan for Marine Litter Management</u> in the Mediterranean of the BC; • Contribute to the national strategy for ICZM.

Needs assessment and proposed programme on Environment related issues

- Institutional support for SWM sector
- Domestic and hazardous waste collection and treatment
- Nile is also an area of concern

Egypt

SWIM-H2020 Themes	Related Country Requests	Expert Days	Link with the regional activities	Relevance to the Country's Strategic Framework
Municipal Solid Waste	<u>Capacity building of the new Solid Waste Agency</u>	30	Solid Waste Management	<ul style="list-style-type: none"> • The newly established Solid Waste Agency (ISWMS) in charge of the implementation of the National Solid Waste Management Programme (NSWMP);
Industrial Pollution	Support for an Action Plan to deal with the <u>pollution of the Nile River</u>	58	Hazardous and Industrial Waste	<ul style="list-style-type: none"> • Egypt has requested support for the development of an Action Plan to deal with the negative impact of <u>Industrial effluents</u> and untreated <u>municipal sewage</u>.
Marine litter	<u>Marine litter management</u>	30	<u>Marine litter and plastic waste</u>	<ul style="list-style-type: none"> • Support the implementation of the obligations and measures relevant to the <u>Regional Plan for Marine Litter Management</u> in the Mediterranean of the BC and contribute to Integrated Coastal Zone Management (ICZM).

Needs assessment and proposed programme on Environment related issues

Israel 1

SWIM-H2020 Themes	Related Country Requests	Expert Days	Link with the regional activities	Relevance to the Country's Strategic Framework
Green Economy	Sectorial Green Public Procurement – Aiding the local industry to plan for shifting to green production for the local market	20	Green economy, circular economy, SCP, CSR, green banking	<ul style="list-style-type: none"> • Some previous work with regard to Green Public Procurement has been done but more support is still needed.
Industrial Pollution	Support on olive oil mills waste – Regulation and methods (continue previous H2020 CB/MEP program)	20	Sustainable management of waste from olive oil mills	<ul style="list-style-type: none"> • Olive Oil Industry waste is an important issue for Israel and the MENA region; • Contribute to the development of the SWM Strategy and Policy; • Potential synergies with neighboring and EU countries (e.g. Cyprus and Greece).

Needs assessment and proposed programme on Environment related issues

Israel 2

- Marine litter – reduction in the amount of litter present on the beaches
- Increase law enforcement activities
- Research concerning the origins of Israel's marine litter.
- Reduction in plastic

SWIM-H2020 Themes	Related Country Requests	Expert Days	Link with regional activities	Relevance to the Country's Strategic Framework
Solid Waste Management	Support for: (a) Assessment of environmental, technical and economic aspects and problems of plastic waste ... (b) Quantitative and qualitative assessment of existing best practice on plastic waste recycling schemes. (c) Identification and evaluation of national measures to improve the recycling of plastic waste and contribution (guidelines) for the introduction of a national plastic waste recycling strategy.	28	Solid Waste Management	<ul style="list-style-type: none"> • Contribute to the enforcement of the new law on plastic bags recently adopted and to be implemented starting in 2017; • The activity may result with the introduction of a national plastic waste recycling strategy.
Solid Waste Management	Support for the preparation of guidelines for best practice for glass recycling schemes	15	Solid Waste Management	<ul style="list-style-type: none"> • This activity will contribute to the development of the National Waste Management Strategy and Policy
Solid Waste Management	Assistance in introducing Construction and Demolition (C & D) waste management, e.g. on: (a) Regulation and enforcement (b) Collection systems operated by local authorities (c) Incentives for the reuse/recycling of materials C&D (d) Integration of recycling facilities and infrastructure in active quarries (e) Recycling facilities in city centers –infrastructure, management and health/well-being	35	Solid Waste Management	<ul style="list-style-type: none"> • The proposed activity will inform the forthcoming adaptation of the Cleanliness Law, to include Construction and Demolition waste which is not adequately addressed in the current Cleanliness Law; • There is still a need to further support the recycling process...

Needs assessment and proposed programme on Environment related issues

- *Develop cleaner production and recycling system for industries*
- *To promote green economy streams I*
- *To promote waste minimization at the source*
- *Ownership within MoE*

Jordan

SWIM-H2020 Themes	Related Country Requests	Expert Days	Link with the regional activities	Relevance to the Country's Strategic Framework
Environmental Integration	Support the Project Management Units, targeting the local level	38	Public participation/ Multi stakeholder dialogue	<ul style="list-style-type: none"> • Enhance synergies with the MoMA in order to achieve more effective assessment, guidance and implementation of projects.
Environmental Integration	Strengthening of public awareness and Education for Sustainable Development in view of promoting: a shift away from the use of plastic bags ; and/or the use of non-conventional water resources	20	Awareness, Education for Sustainable Development	<ul style="list-style-type: none"> • Jordan has encouraged programmes on environmental education in primary and secondary schools while public awareness campaigns have been carried out by many public and private bodies. Nevertheless, ESD has not yet been introduced systematically in the schooling system. This activity is intended as a 'demonstration' one ...
Green Economy	Capacity building for preventing pollution through shifting towards Green Economy and SCP (legal and economic instruments and incentives to promote circular economy and SCP)	60	Green economy, circular economy, SCP, CSR, green banking	<ul style="list-style-type: none"> • SCP Action Plan and the Strategy on Green Economy have been integrated in one document to be considered as important for the design of assistance/capacity building • The planning for SWM for the next 20 years, approved in 2015, includes actions towards the development of green economy

Needs assessment and proposed programme on Environment related issues

- *Refugees situation analysed and accounted for*
- *Dispose all hazardous wastes in a safe and environmentally sound manner*
- *Hot spot's analysis refers to COED*

Lebanon

SWIM-H2020 Themes	Related Country Requests	Expert Days	Link with the regional activities	Relevance to the Country's Strategic Framework
Industrial Pollution	Develop a national module for the <u>abatement of industrial pollution</u> : (a) Design, develop and implement a national module on permitting, inspection and enforcement; (b) Organize a national training of trainers (ToT) workshop ; (c) Develop Guidelines on selected industrial sectors (e.g. poultry, paint and coating sector, printing presses, sand washing industry, gas stations).	85	Governance, implementation and enforcement. Regulatory reform and incentives and Hazardous and Industrial Waste	<ul style="list-style-type: none"> • Legal framework addressing industrial discharges is general and weakly structured. • The law n°64/88 covering Hazardous waste management is not enforced yet. • Central government (MoE), will be supported/facilitated in undertaking initiatives for raising awareness and enforcing <u>the implementation of pollution abatement measures at the level of industries</u>
Solid Waste Management	Training on available <u>technologies for the treatment of leachate</u>	25	Solid Waste Management, Hazardous and Industrial Waste	<ul style="list-style-type: none"> • To introduce selected technologies that have predominantly been employed for landfill leachate treatment and the ways <u>to adapt the proposed technology</u> to the context of the Lebanon.
•Environmental integration	Training workshop on <u>the cost of environmental</u> degradation (TOT)	8	Governance, implementation and enforcement. Regulatory reform and incentives	<ul style="list-style-type: none"> • Familiarize with the COED and to present case studies for the economical representation of environmental degradations from the region.

Needs assessment and proposed programme on Environment related issues

- Support for the Industrial waste management including introduction of clean production
- Green economy and green jobs in the field of SW (Informal sector)

Morocco 1

SWIM-H2020 Themes	Related Country Requests	Expert Days	Link with the regional activities	Relevance to the Country's Strategic Framework
Climate Change	Support to the COP22: Provision of experts and facilitators to a side event of COP22	5	Climate change issues and COP22 in Morocco	<ul style="list-style-type: none"> • COP22 is an important international and regional event with great national involvement and impact;
Industrial Pollution	Support on the development and implementation of the authorization of the <u>hazardous waste management system</u>	35	Hazardous and Industrial Waste	<ul style="list-style-type: none"> • The National Hazardous Waste Management Master Plan PDNGDD established in 2011, and adopted in 2013 and the Decree (No. 2-14-85) on the management of hazardous waste.
Green Economy	Support in the development of <u>sound green economy models</u> focusing on knowledge management and innovation	20	Green economy, circular economy, SCP, CSR, green banking	<ul style="list-style-type: none"> • For Morocco, the green economy is a priority issue. The National Charter of Regional Development (2015-2020) and the National Planning Program recommended urgent interventions on this topic; • Morocco adopted in 2015 a 30-project plan on “green investments” to obtain private financing and promote Public-private partnerships.

Needs assessment and proposed programme on Environment related issues

- Identified as hotspots by the NAP (2005) and still qualified as sensitive areas

Morocco 2

SWIM-H2020 Themes	Related Country Requests	Expert Days	Link with the regional activities	Relevance to the Country's Strategic Framework
Marine litter	<u>Strengthening participatory coastal management</u> for the reduction of <u>marine litter</u> in the regions of <u>Tangier-Tetouan and Oriental</u>	30	<u>Marine litter and plastic waste</u>	<ul style="list-style-type: none"> • Support the implementation of the obligations and measures relevant to the Regional Plan for Marine Litter Management in the Mediterranean of the BC and contribute to ICZM. • <u>The regions of Tangier-Tetouan and Oriental</u>, were identified as hotspots by the NAP (2005); • Strengthen the participatory process involving all stakeholders.
Marine litter	Contribution to the development of an <u>integrated management plan for the coastal areas</u> for the <u>region Tangier-Tetouan and Oriental</u>	28	<u>Support for the implementation of NAPs</u>	<ul style="list-style-type: none"> • Support the implementation of the obligations and measures relevant to the Regional Plan for Marine Litter Management in the Mediterranean of the BC and contribute to ICZM. • <u>The regions of Tangier-Tetouan and Oriental, were identified as hotspots by the NAP (2005);</u> • Strengthen the participatory process involving all stakeholders.

Needs assessment and proposed programme on Environment related issues

Palestine 1

SWIM-H2020 Themes	Related Country Requests	Expert Days	Link with the regional activities	Relevance to the Country's Strategic Framework
Environmental Integration	Enhancing environmental awareness including of the media and <u>support for implementing Education for Sustainable Development</u>	<u>30</u>	Awareness, Education for Sustainable Development	<ul style="list-style-type: none"> Public awareness campaigns on specific environmental issues have been carried out in Palestine, while a number of environmental education programmes have run in primary and secondary schools; However, the involvement of the media has been limited and the MoE and other ministries have requested support in better engaging the media in these efforts; To help the country to systematically use the MSESD and the Action Plan (expected to be approved in December 2016) to adapt accordingly its educational agenda.
Environmental Integration	Support in environmental inspection and enforcement of environmental legislation	28	Governance, implementation and enforcement. Regulatory reform and incentives.	<ul style="list-style-type: none"> Address the use of environmental enforcement and will facilitate the relevant national and local institutions in enforcing national and international standards and laws.

Needs assessment and proposed programme on Environment related issues

- *Project fiche: Building Hazardous Waste (HzW) Treatment Facilities and Constructing Solid Waste Recycling Plants in WB-Palestine*

Palestine 2

SWIM-H2020 Themes	Related Country Requests	Expert Days	Link with the regional activities	Relevance to the Country's Strategic Framework
Industrial Pollution	Provide technical assistance for addressing industrial pollution focusing on specific industries	30	Hazardous and Industrial Waste or Green economy, circular economy, SCP, CSR	<ul style="list-style-type: none"> • The National Strategy and SWM Plan was initially foreseen for the period 2010-2014. Now there is a process for preparing the 2016-2022 National Plan and Strategy which is expected to include provisions for dealing with industrial waste; • Capacity building on specific issues for selected types of waste such as tanning, dairy, tahina and olive mills.
Hazardous waste	Support for hazardous waste management	30	Hazardous and Industrial Waste	<ul style="list-style-type: none"> • Promote the approval of the Master Plan for hazardous waste management developed in 2010 (which needs updating and revision)

Needs assessment and proposed programme on Environment related issues

- Innovative models for the operation and management of solid waste including recycling and treatment

Tunisia 1

SWIM-H2020 Themes	Related Country Requests	Expert Days	Link with the regional activities	Relevance to the Country's Strategic Framework
Solid Waste Management	Capacity building for <u>recovery and recycling of a variety of wastes</u> with focus on rural areas	20	Solid Waste Management	<ul style="list-style-type: none"> • Evaluation and the <u>introduction of adjustment measures to specific SWM streams;</u> • <u>Reinforcement and extension of good practices to rural areas;</u> • Pushing for decentralization and a more strengthened local governance
Environmental Integration	Support in the implementation of Education for Sustainable Development	15	Awareness, Education for Sustainable Development	<ul style="list-style-type: none"> • Several programmes of environmental education in schools have been carried out; • ESD has not yet been introduced systematically in the schooling system as a “management tool” for creating the enabling environment for the introduction and effective implementation of policies; • Help the country to systematically use the MSESD and the Action Plan (expected to be approved in December 2016) to adapt accordingly its educational agenda.

Needs assessment and proposed programme on Environment related issues

Tunisia 2

- Several projects refers to the management of dredged material
- Operational continuity with the previous interventions (Lake Bizerte Charter, etc.), implemented under Horizon 2020 CB/MEP and MeHSIP (in the period 2011-2014).

SWIM-H2020 Themes	Related Country Requests	Expert Days	Link with the regional activities	Relevance to the Country's Strategic Framework
Green Economy	Institutional and technological support for accelerating the transition towards Sustainable Consumption and Production	53	Green economy, circular economy, SCP, CSR, green banking	<ul style="list-style-type: none"> • Tunisia has set a short term goal to integrate Green Jobs in the new National Strategy for Employment (2014-2017) while a Green Economy Strategy (2016-2036) is under preparation.
Industrial Pollution	Technical assistance in the development of a National <u>Manual for the evaluation of dredged material</u>	15	Hazardous and Industrial Waste	<ul style="list-style-type: none"> • In line with the above mentioned <u>strategy on SWM</u>; • Present the institutional and legal situation and suggest technological solutions and treatment options.
Industrial Pollution	Technical assistance for the <u>sustainability and replication of Lake Bizerte governance process</u>	15	Public participation/ Multi stakeholder dialogue	<ul style="list-style-type: none"> • <u>Labelled by the UfM and part of the EU Horizon 2020 Initiative</u>; • The activity includes assistance for the consolidation of the Lac of Bizerte governance structures and for the replication of this experience in other depollution projects



Thank you for your attention.

