



## EFH-MO-4

# Strengthening participatory coastal management for the reduction of marine litter in the regions of Tangier-Tetouan-Al Hoceima and Rabat-Salé-Kénitra

## Report of the workshop on assessing marine litter (Task 1) and raising awareness on marine litter (Task 2) in the Moroccan coastline

Version	Document Title	Author	Review and Clearance
1	Report of the workshop on assessing marine litter (Task 1) and raising awareness on marine litter (Task 2) in the Moroccan coastline	Thomais Vlachogianni	Anis Ismail Michael Scoullou



## THE SWIM AND H2020 SUPPORT MECHANISM PROJECT (2016-2019)

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The SWIM and H2020 SM is a Regional Technical Support Program, funded by the European Commission, Directorate General (DG) NEAR (Neighborhood and Enlargement Negotiations), that includes the following Partner Countries (PCs): Algeria, Egypt, Israel, Jordan, Lebanon, Libya, Morocco, Palestine, [Syria] and Tunisia. However, in order to ensure the coherence and effectiveness of Union financing or to foster regional co-operation, eligibility of specific actions will be extended to the Western Balkan countries (Albania, Bosnia Herzegovina and Montenegro), Turkey and Mauritania. The Program is funded by the European Neighbourhood Instrument (ENI) South/Environment. It ensures the continuation of EU's regional support to ENP South countries in the fields of water management, marine pollution prevention and adds value to other important EU-funded regional programs in related fields, in particular the SWITCH-Med program, and the Clima South program, as well as to projects under the EU bilateral programming, where environment and water are identified as priority sectors for the EU co-operation. It complements and provides operational partnerships and links with the projects labelled by the Union for the Mediterranean, project preparation facilities in particular MESHIP phase II and with the next phase of the ENPI-SEIS project on environmental information systems, whereas its work plan will be coherent with, and supportive of, the Barcelona Convention and its Mediterranean Action Plan.

The overall objective of the Program is to contribute to reduced marine pollution and a more sustainable use of scarce water resources. The Technical Assistance services are grouped in 6 work packages: WP1. Expert facility, WP2. Peer-to-peer experience sharing and dialogue, WP3. Training activities, WP4. Communication and visibility, WP5. Capitalizing the lessons learnt, good practices and success stories and WP6. Support activities.



## Acknowledgements:

Special thanks need to be directed to the H2020 Focal Point Mr. Mohamed Benyahia (Ministry of Environment of Morocco) and his support team: Ms. Naoual Zoubair (SEDD - Coastal management), Ms. Khaoula Lagrini (SEDD-DRE Tanger), Mr. Yasser Amar (SEDD-DRE), Mr. Abdeslam Abid (ENESP/SEDD, representing the UN Environment/MAP MEDPOL Focal Point), Mr. Lhoussaine Khidour, (SEDD-DRE) and Mr. Najib Belmekki (on behalf of the H2020 Focal Point) for their valuable contribution and support throughout the training. Special thanks need to be directed also to the MEDPOL Focal Point Mr. Rachid Firadi for his support and constructive inputs to the workshop, as well as for consolidating and presenting the SWIM-H2020 SM marine litter related activities at the Barcelona Convention COP20 side event organized by MIO-ECSDE entitled "SDG14 and Marine Litter: what progress has been made in the Mediterranean". The side event took place on the last day of the COP, which was held in Tirana, Albania from 17-20 February 2017.

## Disclaimer:

This document has been produced with the financial support of the European Union. The contents are the sole responsibility of the implementing Consortium and can in no way be taken to reflect the views of the European Union.



**Sustainable Water Integrated Management and Horizon 2020 Support Mechanism**

**This Project is funded by the European Union**



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## ABBREVIATIONS

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EO	Ecological Objective
H2020	Horizon 2020
ICZM	Integrated Coastal Zone Management
IMAP	Integrated Monitoring and Assessment Programme
LBS	Land-Based Sources
NAP	National Action Plan
NGO	Non-Governmental Organization
NKE	Non-Key Expert
UNEP/MAP	United Nations Environment Programme/Mediterranean Action Plan



# 1 GENERAL INTRODUCTION

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Marine litter -any persistent, manufactured or processed solid material discarded, disposed of or abandoned in the marine and coastal environment- is globally acknowledged as a major societal challenge of our times due to its significant environmental, economic, social, political and cultural implications. Marine litter negatively impacts coastal and marine ecosystems and the services they provide, ultimately affecting people's livelihoods and well-being.

Marine litter related information in the Mediterranean, remains limited, inconsistent and fragmented, however it is widely accepted that it is one of the most affected seas by marine litter worldwide. Effective measures to tackle marine litter in the region are seriously hampered by the lack of reliable scientific data. Within this context the need for accurate, coherent and comparable scientific data on marine litter in the Mediterranean countries is evident in order to set priorities for action and address marine litter effectively, thus ensuring the sustainable management and use of the marine and coastal environment of the region.

Within the framework of the SWIM-H2020 SM Morocco has asked for an Expert Facility Activity (EFH-MO-4) in order to assess marine litter in the Moroccan coastline and come up with targeted management options. This activity will support the implementation in Morocco of the obligations and measures relevant to the Regional Plan for Marine Litter Management in the Mediterranean of the Barcelona Convention and will contribute to Integrated Coastal Zone Management (ICZM) within the framework of the implementation of the regional ICZM Protocol of the Barcelona Convention. More specifically, the action will support Morocco in: integrating marine litter measures into the LBS National Action Plan in line with Article 7 of the Regional Plan; assessing marine litter in the Moroccan coastline in line with Article 11 of the Regional Plan; designing a marine litter monitoring programme in line with Article 12 of the Regional Plan; supporting the implementation of the Regional Plan through technical assistance and capacity building in line with Article 15 of the Regional Plan.

The assessment of marine litter in the Moroccan coastline and the proposed management options based on the results would trigger positive changes in the design and implementation of the relevant national institutional, policy and regulatory frameworks, which should incorporate marine litter prevention and reduction measures. Furthermore, it will strengthen the regional coherence and cooperation in approaches to marine pollution prevention and control, and sustainable waste management. The areas addressed/covered by the proposed activity include a study/assessment, technical assistance and capacity building.

The overall Activity entails the following tasks:

- Task 1: Carry out marine litter pilot surveys (including a workshop) on the Moroccan coast in the coastal areas of the Tangier-Tétouan-Al Hoceima region (with the participation of stakeholders from the Rabat-Salé-Kénitra region).
- Task 2: Carry out awareness raising actions on marine litter (in combination with task 1).
- Task 3: Develop a plan of action to reduce marine litter in the coastal areas of the Tangier-Tétouan-Al Hoceima region (and the Rabat-Salé-Kénitra region).





This workshop, held on 19-20 October 2017, was carried out under Task 1. Together with the Moroccan Authorities (via the Horizon 2020 Focal Point), within this task specific sampling sites for marine litter monitoring on the coast will be selected, a core set of professionals will be supported to properly monitor marine litter on coasts and 3-4 marine litter monitoring surveys will be conducted. Once the task is completed, marine litter datasets from the pilot monitoring surveys will be obtained; an assessment report will be elaborated on amounts, types, composition and sources of marine litter. One session of the workshop was dedicated to a snapshot survey (see section 7) aiming to collectively identify priority awareness raising actions for marine litter and contribute to Task 2 of this Expert Facility Activity.

## 2 OBJECTIVES OF THE WORKSHOP

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The overarching goal of the workshop was to train a core set of professionals to properly monitor marine litter on coasts. The workshop participants were briefly introduced to the theme of marine litter, its sources and impacts, as well as the main legislative framework to combat marine litter, namely the Barcelona Convention Regional Plan for Marine Litter Management in the Mediterranean. The participants gained an overview of the 'best' available techniques and methodologies for monitoring marine litter in the coastal and marine environment. Most importantly, they had the opportunity to get acquainted step-by-step with the methodology for monitoring marine macro-litter on beaches and gain hands-on experience on how to perform beach litter surveys. The participants surveyed a transect on the coastline of Tangier and processed the respective data in order to obtain a snapshot of the marine litter density in the area and the potential main sources. Throughout the workshop emphasis was given to the practical implementation of the three marine litter indicators adopted within the Barcelona Convention Integrated Monitoring and Assessment Programme of the Mediterranean Sea and Coast and Related Assessment Criteria (IMAP – Decision IG.22/7).

- Common Indicator 22: Trends in the amount of litter washed ashore and/or deposited on coastlines (EO10);
- Common Indicator 23: Trends in the amount of litter in the water column including micro plastics and on the seafloor (EO10)
- Candidate Indicator 24: Trends in the amount of litter ingested by or entangling marine organisms focusing on selected mammals, marine birds, and marine turtles (EO10).



### 3 EXPECTED RESULTS OF THE EVENT

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The expected out outcomes of the workshop were:

- Enhanced understanding of key issues (technical, environmental, economic, health, cultural and social) related to marine litter;
- Deepened knowledge on the Barcelona Convention Regional Plan for Marine Litter Management in the Mediterranean Acquiring and the the three marine litter indicators adopted within the Barcelona Convention Integrated Monitoring and Assessment Programme of the Mediterranean Sea and Coast and Related Assessment Criteria (IMAP – Decision IG.22/7);
- Improved knowledge and understanding of appropriate marine litter monitoring schemes and methodologies;
- Strengthened capacities to monitor marine litter on beaches in a harmonized way and also enhanced skills to process the marine litter datasets and identify the marine litter sources.
- Strengthened implementation of the Barcelona Convention Regional Plan for Marine Litter Management in the Mediterranean

The outcomes of this workshop will be instrumental in selecting sampling sites for marine litter monitoring on the Moroccan coast and in conducting the pilot marine litter monitoring surveys. They will also contribute to defining the priority awareness raising actions for marine litter to be carried out under Task 2 of the Expert Facility Activity.

The training achieved to meet the above results by applying the approach described in the following sections.

### 4 APPROACH OF THE EVENT

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The workshop comprised of a balanced mix of presentations, small group simulation exercises, a field visit and moderated discussion to foster an engaging learning experience. It was participatory and interactive. The workshop was facilitated by on-line video guidelines (<http://mio-ecsde.org/project/mio-ecsdedefishgear-guidelines-on-how-to-monitor-marine-litter-on-beaches/>) and an e-learning platform ([http://www.envirolearning.net/index.php?ctg=lesson\\_info&courses\\_ID=26](http://www.envirolearning.net/index.php?ctg=lesson_info&courses_ID=26)) on marine litter monitoring. At the end of the workshop the participants were provided with the training materials and other marine litter related resources so as to enhance their competences on how to design and carry out marine litter monitoring. These resources included the metadata templates and monitoring protocols for monitoring marine litter on beaches, marine litter assessment reports, guides with marine litter best practices measures, etc.



Figure 1. Map of the survey site located in beach of Oued Alian

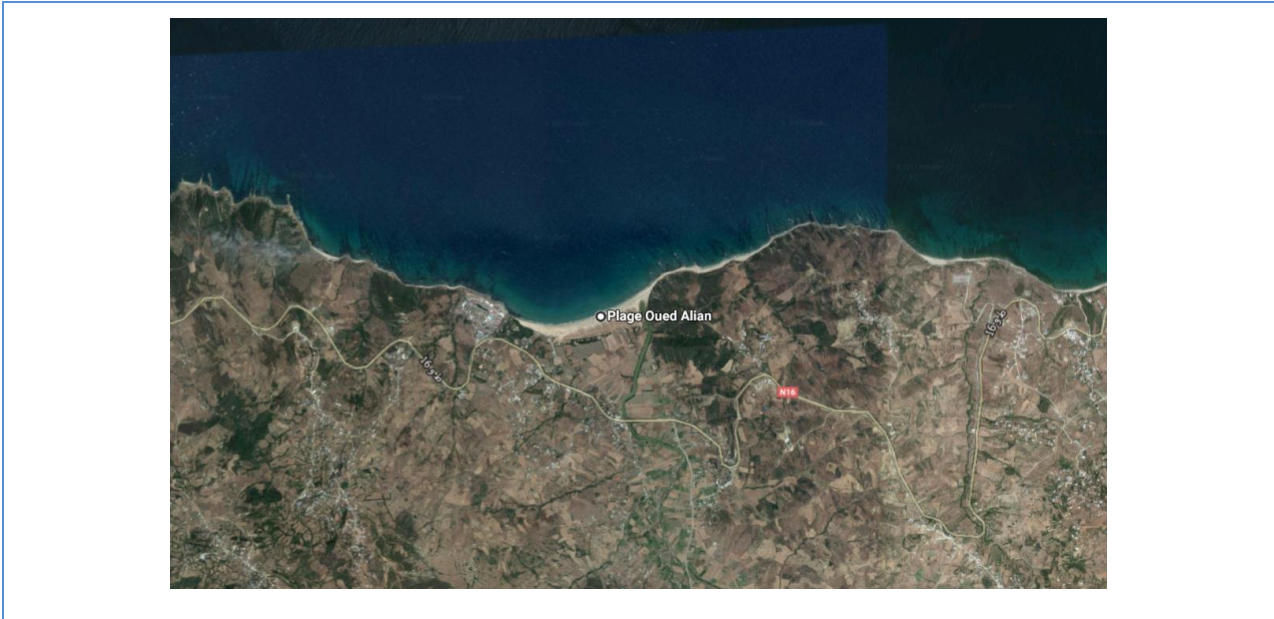


Figure 2. Group photos taken: (a) during the hands-on activity on the beach, and (b) during the last day of the event





(b)

## 5 PARTICIPANTS PROFILE

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In accordance with Terms of Reference of the activity, this workshop targeted the following stakeholders:

- The H2020 Focal Point;
- The UNEP/MAP MEDPOL Focal Point;
- Members of staff of the Ministry of Environment and/or any other relevant agency that would be involved in designing the marine litter monitoring programme of Morocco as well as the marine litter measures;
- Representatives of local authorities (ideally the person(s) in charge of keeping the beaches clean and/or managing waste and/or involved in designing/implementing the waste management plan of the local authority);
- NGOs carrying out beach litter surveys or interested in performing marine litter monitoring or implementing pilot measures (e.g. cleanups, fishing for litter, adopt a beach, etc.);
- Research institutes and academia working or interested in working on the issue of marine litter monitoring and/or marine litter management;
- Representatives of any related marine litter monitoring and management related projects
- Management body of a coastal and/or marine protected area;
- Any other stakeholder (e.g. plastic producers associations, fishermen associations, etc.) interested in marine litter monitoring and marine litter management.

As can be seen from the list of participants (see Annex 8.2), the event was attended by 34 participants (including the NKE), out of which more than half were ministry representatives, one fifth were representing local authorities, 2 participants were NGO representatives, one participant was from a research institute (see Figure 3).



Figure 3. Participants profile

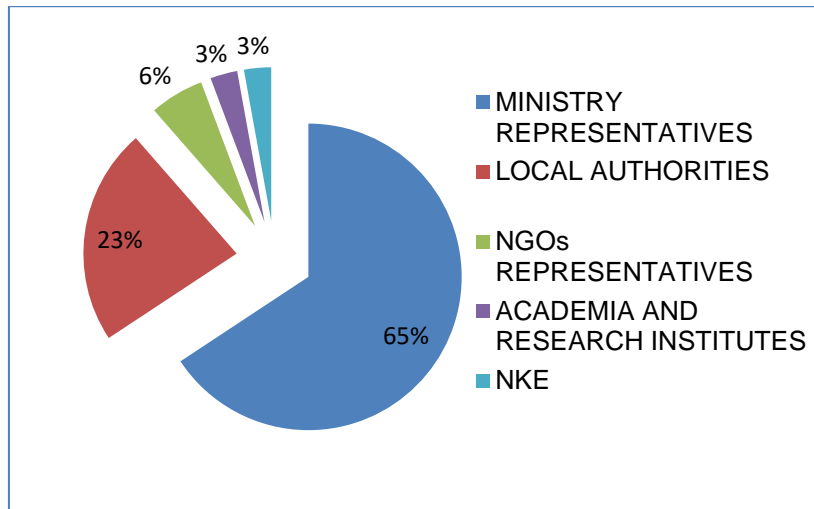
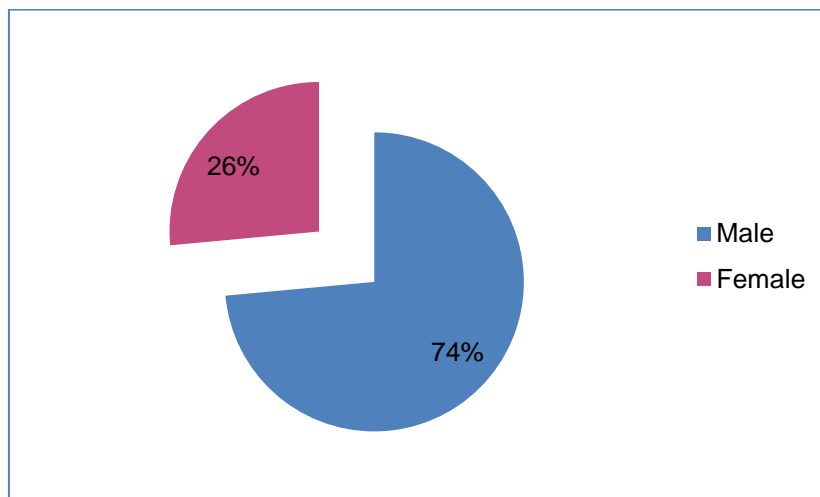


Figure 4. Gender statistics of the workshop participants



## 6 EVALUATION OF THE EVENT

### A. Feedback on organizational, administrative and planning issues of the event

A set of 7 criteria; A1-A7 (see table below) were assessed by the participants, using a qualitative description ranging between “Excellent” to “Poor”, with an opportunity to provide suggestions for improvement. For the sake of comparison, the qualitative descriptions are given series numbers as follows: Excellent = 4; Good = 3; Average = 2; Poor = 1.





Table 1. Workshop rating results related to organizational, administrative and planning issues (score expressed using the scale of 4 and 100%).

ORGANISATIONAL, ADMINISTRATIVE AND PLANNING ISSUES		SCORE (MAX. 4)	SCORE (MAX. 100%)
A1	Efficient logistics: location of venue and interpretation	3,85	96%
A2	Smooth flow of programme, efficient handling of emerging needs and attentiveness to participants concerns	3,50	88%
A3	Presentations correspond and contribute to the planned objectives and are conducive to enhanced shared understanding and participation on addressed topics	3,65	91%
A4	Clarity, coverage and sufficiency of concepts, objectives, anticipated outputs and outcomes	3,40	85%
A5	The materials distributed were helpful	3,25	81%
A6	Efficient and Effective Facilitation	3,50	88%
A7	Overall rating of the event	3,50	88%

### B. Feedback on technical aspects of the event

More than half of the participants (~55%) found all topics of the event necessary for a good comprehension of the subject, while the rest felt that some additional topics could be included. Regarding the level of difficulty according to the vast majority of the participants (75%) it was adequate, while 3 participants were of the view that it was elementary. More than half of the participants felt that the length of the training was sufficient (~55%) while 35% of the participants found the event's duration shorter than required.

Table 2. Participants' feedback on technical aspects of the event

FEEDBACK ON TECHNICAL ASPECTS	No. of replies
<b>B1. Coverage of the event</b>	
All the topics necessary for a good comprehension of the subject	11
Some topics covered are not necessary	
Some additional topics should be included	7
No reply	2
<b>Total Replies</b>	<b>20</b>
<b>B2. Level of difficulty</b>	
Difficult	
Adequate	15
Elementary	3
No reply	2
<b>Total Replies</b>	<b>20</b>
<b>B3. Length of the training</b>	
Longer than needed	
Sufficient	11
Shorter than required	7
No reply	2
<b>Total Replies</b>	<b>20</b>



Figure 5. Participants' feedback on the event's coverage

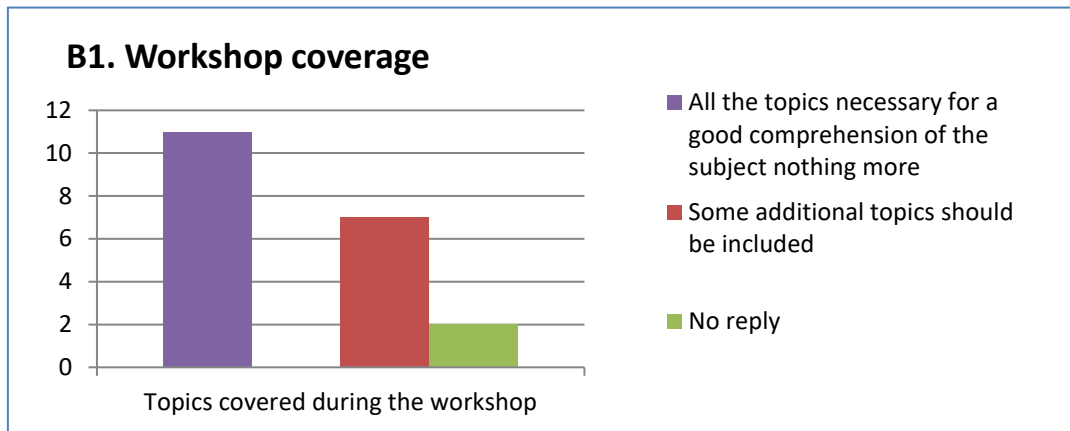


Figure 6. Participants' feedback on the event's difficulty

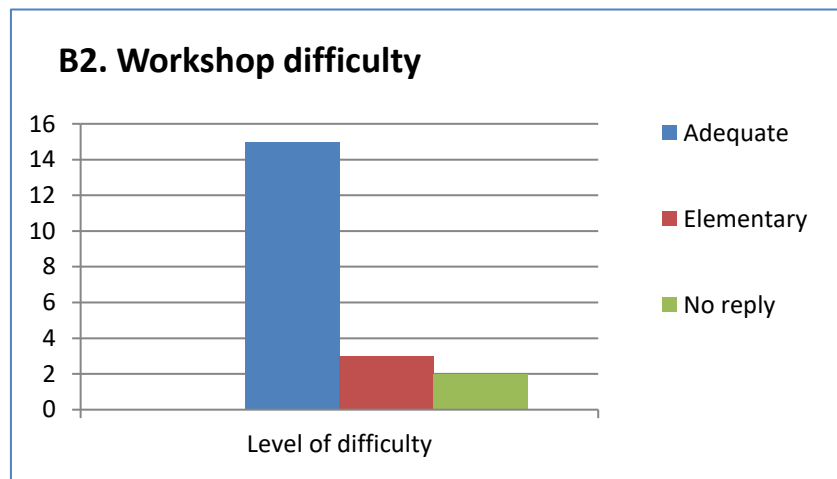
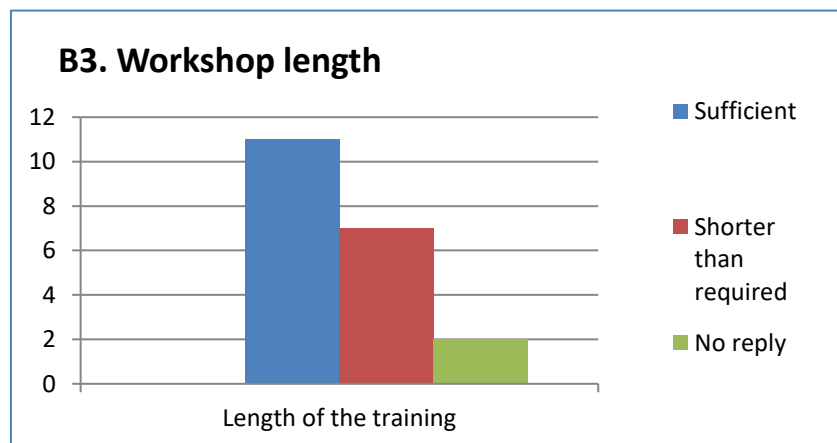


Figure 7. Participants' feedback on the event's length





Participants provided valuable insights on the event through a set of five open-ended questions (B4-B8). A summary of the most popular replies is provided in the table below. The participants indicated that among the most valuable things they learned during the workshop were the importance of carrying out marine litter surveys with the use of a harmonized methodology; the way to perform beach litter surveys; marine litter prevention and mitigation measures. Along the same line, the participants indicated that the event will assist them in detecting the sources of marine litter and thus facilitate the prioritization of measures; it will improve the quality of their work in the field; it will assist them in preparing a comprehensive awareness raising and monitoring campaign on marine litter in Morocco. Among the things they liked most in this workshop were the well-prepared presentations; the group work and hands-on activity; the interactive and participatory sessions. The participants indicated that they gained good knowledge on the issue which they are committed to transfer to their colleagues through reports, presentations, discussions and replication activities. Last but not least, some participants indicated that the length of the future workshops should be increased, while also some additional issues could have been addressed, such as marine litter solutions and how they can be put in practice.

Table 3. Participants replies to the open-ended questions

Open-ended questions		Most popular replies
B4	<b>What is the most valuable thing you learned?</b>	<ul style="list-style-type: none"> <li>▪ How to monitor marine litter on beaches in a harmonized way;</li> <li>▪ The existence of different 'mature' methodologies for monitoring marine litter in all marine compartments;</li> <li>▪ Marine litter prevention and mitigation measures.</li> </ul>
B5	<b>How do you think that the current event will assist you in your future work on the subject?</b>	<ul style="list-style-type: none"> <li>▪ It will facilitate efforts to detect the marine litter sources and subsequently guide the identification of targeted measures;</li> <li>▪ It will improve the quality of the work performed on the field;</li> <li>▪ It will assist in preparing a comprehensive awareness raising and monitoring campaign on marine litter in Morocco.</li> </ul>
B6	<b>Please indicate whether (and how) you could transfer part of the experience gained from the event to your colleagues in your country.</b>	<ul style="list-style-type: none"> <li>▪ Report;</li> <li>▪ Presentation;</li> <li>▪ Organize a meeting and discuss with colleagues;</li> <li>▪ Replicate the workshop's experience in collaboration with colleagues and other stakeholders.</li> </ul>
B7	<b>What did you like most about this event?</b>	<ul style="list-style-type: none"> <li>▪ The participation and the engagement of the stakeholders from different sectors;</li> <li>▪ The well-elaborated presentations and the fact that this was a well-prepared event;</li> <li>▪ Good experts;</li> <li>▪ The hands-on activity at the beach;</li> <li>▪ The group-work sessions;</li> <li>▪ The interactive and participatory sessions and the opportunity to exchange ideas with colleagues working on marine litter.</li> </ul>
B8	<b>What needs to be improved?</b>	<ul style="list-style-type: none"> <li>▪ The length of the workshop should be increased;</li> <li>▪ More beach litter surveys should have been carried out in diversified locations;</li> <li>▪ More time should have been devoted on marine litter solutions and how they can be put in practice;</li> <li>▪ The workshop's materials should have been made available in advance.</li> </ul>





### C. Remarks by the trainer

A set of 9 criteria; C1-C9 (see table below) were used by the NKE in order to assess the impact of the event. Overall, the participants were very active during the interactive sessions, engaged with the topics and their contributions to the discussions were very extensive and valuable. The planned objectives of the event were achieved to a large extent and participants gained a deepened understanding of appropriate marine litter monitoring schemes and methodologies, including how to monitor marine litter on beaches in a harmonized way. In general the event ran smoothly; the presentations, breakout sessions and field work were well appreciated; however more time was needed in order to provide the participants more opportunities to discuss and exchange experiences.

Table 4. The criteria used by the NKEs to assess the impact of the event

<b>C1</b>	Efficient and effective performance and interaction by participants
<b>C2</b>	Efficient and effective cooperation and team spirit
<b>C3</b>	Level of achievement of planned objectives
<b>C4</b>	Did the event contribute to helping participants practice skills or gain knowledge related to course concepts
<b>C5</b>	What worked well during the event
<b>C6</b>	What didn't work well and why
<b>C7</b>	What components/concepts did participants seem to understand well
<b>C8</b>	Were there any components/concepts that participants appeared to not understand
<b>C9</b>	What aspects of the event could be improved and what to be kept

## 7 OVERALL ASSESSMENT & CONCLUSIONS

The training evaluation received overall satisfactory notes. Most appreciated aspect was the organizational support (average: 3,78 or 94%). The second highest value is attributed to “Clarity, coverage and sufficiency of concepts, objectives, anticipated outputs and outcomes” (average: 3,39 or 85%), thus testifying how the planned objectives were fully reached. Participants obtained an enhanced understanding of key issues (technical, environmental, economic, health, cultural and social) related to marine litter; deepened their knowledge on the Barcelona Convention Regional Plan for Marine Litter Management in the Mediterranean; improved their knowledge and understanding of appropriate marine litter monitoring schemes and methodologies and strengthened their capacities to monitor marine litter on beaches in a harmonized way; enhanced their skills to process the marine litter datasets and identify the marine litter sources. The “Presentations correspond and contribute to the planned objectives and are conducive to enhanced shared understanding and participation on addressed topics”, the “Smooth flow of programme, efficient handling of emerging needs and attentiveness to participants concerns” and the “Efficient and Effective Facilitation” were highly appreciated too (average: 3,29-3,33 or 80-83%). Participants expressed their satisfaction about the group work, the interactivity of the sessions and the opportunity to have fruitful and very active dialogue. In terms of the things that need to be improved, most of the participants (63%) indicated that the event’s length was sufficient, while quite a few participants (30%) felt that some additional topics could have been more explicitly addressed (i.e. the legislative aspects of the marine litter measures).



## 8 ANNEXES

### 8.1. AGENDA OF THE WORKSHOP

19 October 2017

Time	Session	Work programme	Speaker(s)
09.30-10.00	Welcome	Welcoming remarks Agenda overview Ice breaker	Mr Najib Belmekki, representing the H2020 Focal Point Mr. Lhoussaine Khidour, Director, Direction Régionale de l'Environnement de Tanger-Tétouan Al Hoceima Dr. Thomais Vlachogianni, SWIM-H2020 SM/ MIO-ECSDE marine litter expert
10.00-11.00	Introduction	Brief overview of the SWIM-H2020 SM MEDPOL activities on ML in the Mediterranean Introduction to the Expert Facility Activity	Thomais Vlachogianni Mr. Abid Abdeslam representing the UNEP/MAP MEDPOL Focal Point Thomais Vlachogianni
11.00-11.30	Coffee break		
11.30-13.00	Monitoring marine litter	Overview of 'best' available methodologies for monitoring ML in the coastal and marine environment Methodology for monitoring marine litter on beaches and assessing marine litter amounts, composition and sources <i>Discussion</i>	Thomais Vlachogianni
13.00-14.00	Lunch break		
14.00-15.00	Monitoring and assessment of marine litter on beaches	Introduction to the field work on beach litter surveys <i>Discussion</i>	Thomais Vlachogianni
15.00-15.30	Coffee break		
15.30-17.00	Awareness raising on marine litter	Showcasing actions to raise awareness on marine litter Snapshot survey for the collective identification of the ML priority awareness raising actions <i>Discussion</i>	Thomais Vlachogianni
17.00-17.30	Wrap up	Reflections & concluding remarks	All



20 October 2017

Time	Session	Work programme	Speaker(s)
08.45	Departure for the field trip		
09.30-10.00	Introduction	Brief introduction to the field work	Thomas Vlachogianni
10.00-13.00	Monitoring marine litter on beaches	Field surveys in group work	Thomas Vlachogianni
13.00-14.30	Lunch break		
14.30-15.30	Monitoring marine litter on beaches (continued)	Results analysis/simulation exercise from field work in group work <i>Discussion</i>	Thomas Vlachogianni
15.30-16.00	Coffee break		
16.00-16.30	Wrap up and closure	Reflections & concluding remarks, certificates, evaluation	All



## 8.2. LIST OF PARTICIPANTS OF THE WORKSHOP

Name	Surname	Position	Organization
Mr. Abdeslam	ABID	Cadre	ENESP/SEDD
Mr. Mohamed	ABOUJENAN	Chef	Division Gestion des risques
Ms. Sonia	ADERGHAL	Administrative	Délégation Provinciale de Tourisme de Tétouan
Mr. Halim	AKAABOUNE	Eaux et Forêts	Direction Régionale des Eaux et Forêts et de la Lutte Contre la Désertification du Nord Ouest - Kénitra
Mr. Yasser	AMAR	Chef service gestion environnemental	SEDD-DRE Tanger
Mr. Mohamed	AMRANI	Chef Service OREDD	SEDD-DRE TT1
Mr. Mohamed	ATTIGUI	Équipement et transport	DRETLE
Mr. Mohamed Chaouki	BAHY	Service Environnement	Province Chefchaouen
Mr. Abdelaziz	BELHAJ	SEGR/Wilaya de Tanger	Wilaya de Tanger
Mr. Najib	BELMEKKI	Administrateur	SEDD/DpCC
Ms. Hafsa	BENBRAHIM	Administratrice	SEDD, DRE-RSK
Mr. Mostapha	BENOMAR	Chercheur	Institut National de Recherche Halieutique
Mr. Mohamed	BENYAKHLEF	Président	AMP Maroc
Mr. Hicham	BOUZIANE	Chef division développent rural	Conseil Régionale Tanger-Tétouan-AI-Hoceima
Mr. Abderrachid	BUDASDIJ	Chef Service Environnement	Province AI-Hoceima
Mr. Mohammed	CHAFFAI	Chef de service Industrie	Délégation Commune Industrie de Tétouan
Mr. Samir	EL AAMRE	Service Environnement	Gendarmerie Royal
Ms. Kabira	EL ASRI	Ingénieure	Direction Régionale d'Agriculture
Mr. Elmoatamid	EL KHODARI	Service propreté	Commune Tanger (ministre de l'Intérieur)
Mr. Mustapha	ELFERDAOUS	Délégué de M'diq	
Mr. Mostapha	ELQAOUASSA	Représentant de DPETLE de Tétouan	Domaine Maritime
Mr. Ahmed	ETTALHI		Inspection Régionale de l'Urbanisme et de l'Aménagement du Territoire
Mr. Mohamed	KAMEL	Ingénieur d'État	Délégation des Pêches Maritimes de Tanger
Ms. Khaoula	LAGRINI	Service Littoral	SEDD-DRE Tanger
Ms. Ilham	MAAROUFI	Commune de Rabat	Division d'environnement
Ms. Amina	MATAIS	Chef Service	Environnement
Mr. Faïçal	MZIANE	Protection civile	Protection civile
Ms. Allouch	RAJAE	Service Environnement	Province de Tétouan
Mr. Abderrahime	RHOUAT	Chef de Service de Sécurité et de la prévention de la pollution marine	DPM M'diq



Mr.	Mohamed Amine	RONOSI	Chef de service assainement solide	Commune Kenitra
Mrs	Najat	SERRAJ	OREDD	SEDD-DRE Tanger
Ms.	Thomais	VLACHOGIANN I	Expert en déchets marins	SWIM-H2020 SM / MIO-ECSDE
Mr.	Elbekkaye	YEGGOUTI	Technicien	Division technique d'environnement commune rural ksar sghir
Ms.	Fatima	ZAWAUAT	Professeur SV.T	A.E.S.V.T.



## 8.3. LIST OF RESOURCES SHARED

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- Regional Plan on Marine Litter Management in the Mediterranean in the Framework of Article 15 of the Land Based Sources Protocol (Decision IG.21/7)
- MEDPOL Beach Litter Survey Form (UNEP(DEPI)/MED WG.439/20/L.1)
- The UNEP/MAP Marine Litter Assessment in the Mediterranean
- The UNEP-MAP Regional Survey on abandoned, lost and discarded fishing gear & ghost nets
- The MSFD TGML Report on Harm caused by Marine Litter
- The MSFD TGML Report on Identifying Sources of Marine Litter
- The MSFD TGML Report on Monitoring of Marine Litter in European Seas
- The IPA-Adriatic DeFishGear Marine Litter Assessment in the Adriatic and Ionian Seas
- The IPA-Adriatic DeFishGear Marine Litter Socio-Economic Implications Report
- The IPA-Adriatic DeFishGear Monitoring Methodology for Marine Litter on Beaches
- The MARLISCO Marine Litter Best Practice Guide (in Arabic)
- The MARLISCO Educational Material 'Know, Feel, Act! To Stop Marine Litter
- The MARLISCO Targeted Brochure 'Stopping Marine Litter Together'
- The MARLISCO Guide 'How to Communicate Marine Litter with Stakeholders



## 8.4. SNAPSHOT SURVEY

### Snapshot survey

for the collective identification of priority awareness raising actions for marine litter

Please identify the main objective of the pilot awareness raising actions:

To raise awareness on the impacts of ML	<input type="checkbox"/>
To raise awareness on the sources (human induced activities) that generate ML	<input type="checkbox"/>
To raise awareness on priority actions/measures to address ML	<input type="checkbox"/>
To raise awareness on all of the above	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>

Please select the most important target group for the pilot awareness raising actions:

Industry professional - plastics converter/manufacturer,	<input type="checkbox"/>
Industry professional - manufacturer of cosmetics/personal hygiene products/abrasives	<input type="checkbox"/>
Industry professional - product designer	<input type="checkbox"/>
Tourism sector professional	<input type="checkbox"/>
Maritime sector professional - fisherman	<input type="checkbox"/>
Maritime sector professional – aquaculture farm owner/worker	<input type="checkbox"/>
Maritime sector professional – shipping company	<input type="checkbox"/>
Maritime sector professional – small boat owners	<input type="checkbox"/>
Local authority	<input type="checkbox"/>
National authority	<input type="checkbox"/>
Port authority	<input type="checkbox"/>
Educators and students	<input type="checkbox"/>
Marine Protected Areas managers	<input type="checkbox"/>
Media	<input type="checkbox"/>
Environmental NGOs	<input type="checkbox"/>
General public	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>

Please select the most relevant type of best awareness raising practices for the pilot awareness raising actions:

Fishing for litter	<input type="checkbox"/>
Adopt a beach/Coastwatch	<input type="checkbox"/>
Beach cleanups	<input type="checkbox"/>
Participatory science initiatives, such as the Marine Litter Watch Month	<input type="checkbox"/>
Dive against debris	<input type="checkbox"/>
Bag it and bin it don't flush it	<input type="checkbox"/>
Bring your fishing nets back to shore, Recycle	<input type="checkbox"/>
Return to the offender campaign	<input type="checkbox"/>
Bye bye plastic bag	<input type="checkbox"/>
Responsible Beach Snack Bars	<input type="checkbox"/>
Awareness raising campaign targeted to educators, schools and the general public	<input type="checkbox"/>
Targeted workshops for different types of professionals	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>



Please select the most prominent barriers for the pilot awareness raising actions:

Lack of financial resources	<input type="checkbox"/>
Lack of technical skills	<input type="checkbox"/>
Lack of tools and channels	<input type="checkbox"/>
Lack of human resources	<input type="checkbox"/>
Regulatory obstacles	<input type="checkbox"/>
Difficulties with stakeholders engagement and partnerships building	<input type="checkbox"/>
Others (please specify)	<input type="checkbox"/>