Water and Environment Support

in the ENI Southern Neighbourhood region



Activity: WES N-E-MO-2

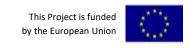
Training on marine litter monitoring

Water and Environment Support (WES): an overview The WES marine litter activities in Morocco

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Senior MIO-ECSDE Policy & Programme Officer
Senior WES Marine Litter Expert
Member of the MSFD Technical Group on Marine Litter
Member of the UNEP/MAP CORMON Group
WP Leader of Plastic Busters MPAs & Plastic Busters CAP







WES OBJECTIVES



- WES aims at protecting the environment and improving the management of scarce water resources in the Mediterranean.
- It strives to address the country needs for creating the enabling environment and enhancing the capacities of stakeholders in the Partner Countries (PCs) to tackle problems related to pollution prevention and water use efficiency.
- WES capitalises on previous successful **EU funded regional projects running for more than 10 years (Horizon 2020 CB/MEP; SWIM SM;** SWIM-Horizon 2020 SM).



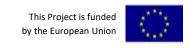


WES FACTS & FIGURES



Facts & Figures	
Partner Countries:	Algeria, Egypt, Israel, Jordan, Lebanon, Morocco, Palestine and Tunisia
Project value:	9,508,054 Euros
Duration:	May 2019 – November 2024 (66 months)
Project team:	Team Leader: Professor Michael Scoullos, scoullos@wes-med.eu Water Expert: Ms Suzan Taha, taha@wes-med.eu Environment Expert: Mr. Anis Ismail, a.ismail@wes-med.eu Communication & Networking Expert: Ms Lisa Papadogeorgaki, lpa@ldk.gr Stakeholder Engagement Expert: Dr. Emad Adly, wes.gc@raednetwork.org





WES CONSORTIUM





LDK Consultants Global EEIG (Leader)



Gopa Infra GmbH



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



MedWaves the UNEP/MAP Regional Activity Centre for SCP



Arab Network for Environment and Development (RAED)



Ramboll Denmark A/S



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



Royal HaskoningDHV



CIHEAM – Mediterranean Agronomic Institute of Bari (CIHEAM Bari)





TECHNICAL ASSISTANCE, CAPACITY BUILDING, Water and Environment Support in the ENI Southern Neighbourhood region

Regional level:

- Around 20 Regional Activities on major water and environment issues such as Trainings/Workshops, Study Visits to European and Southern Mediterranean countries, Webinars and coached Peer-to-Peer exchanges.
- +3 Regional Activities on plastic pollution (environment)

National Level:

- Around 4 National Activities (2 on water and 2 on environment) per Partner Country
- + Activities on plastic pollution (environment)
- National WES Meetings: collaboration platforms to assess progress, plan next steps, enhance synergies with other programs/ projects, etc.

Follow the WES work programme:

Component 1 Work Programme

Component 2 Work Programme





ASSESSING IMPACT OF WES CAPACITY BUILDING



- Committed trainers and trainees
- \longrightarrow

significant impacts

- WES measures direct results during the implementation of CB activities:
 - quizzes, exercises, etc.
 - evaluation form ——— make sure to complete it!
 - commitment form —— be realistic but also be ambitious on what you commit to achieving by 2023

WES measures **mid-term results** after the CB activities have taken place based on commitments made, e.g.:

- on-line post-impact survey sent to all trainees
- direct contact/interview with some selected trainees

TOGETHER
WE CAN WORK TOWARDS
A SUSTAINABLE
MEDITERRANEAN REGION





WES SUPPORT TO MARINE LITTER MONITORING AND MANAGEMENT IN MOROCCO



COMPONENT	Component 1 – Pollution prevention
WES TOPIC:	Topic 1: Curbing Plastic Pollution & Marine Litter
WES SUBTOPIC	Sub-Topic 1.1: Marine litter monitoring and management
DIMENSION	Technical Assistance & Capacity Building



WES CAPITALIZES ON SWIM-H2020 SM ACTIVITIES ON MARINE LITTER CARRIED OUT IN MOROCCO











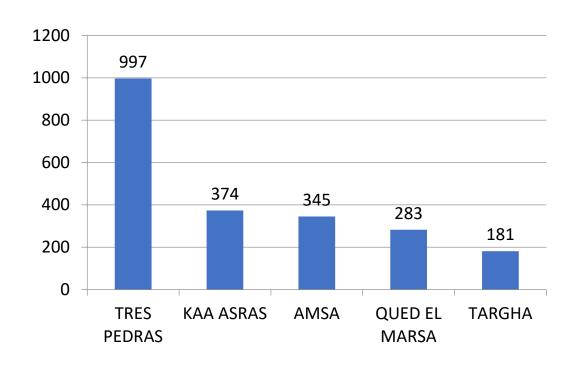




Assessing marine litter on the Moroccan coastline

ASSESSING MARINE LITTER ON THE MOROCCAN COASTLINE





	Item code	Item name	Items count	%
1	G3	Shopping bags, incl. pieces	2083	15,9
2	G30	Crisps packets/sweets wrappers	1820	13,9
3	G21	Plastic caps/lids from drinks	1129	8,6
4	G27	Cigarette butts and filters	917	7,0
5	G10	Food containers incl. fast food	898	6,9
		containers		
6	G8	Drink bottles >0.5l	741	5,7
7	G137	Clothing / rags (clothes, hats, towels)	725	5,5
8	G7	Drink bottles <=0.5l	681	5,2
9	G31	Lolly sticks	517	4,0
1	G79	Plastic pieces 2.5 cm > < 50cm	337	2,6
0				

OBJECTIVES



To generate fit-for-purpose data on the amounts, types, composition and sources of marine litter on the sea surface and the seafloor.

To identify management measures to tackle the identified sources and types of marine litter;

To propose a plan with priority measures for reducing marine litter.











Task 1:

Preparatory actions, including an inception mission to Morocco, to kickstart the activity

- Result 1.1: Aims, targets, steps (methodology), stakeholders to be engaged, modalities of intervention of stakeholders as well as their roles and commitments during and after the activity, are confirmed and agreed.
- Result 1.2: Moroccan Peers for the WES Marine Litter Peer-to-Peer exchange identified/confirmed.







Task 2:

Carry out marine macrolitter pilot surveys on the sea surface and the seafloor, including a hands-on training & peer mentoring



Result 2.1: Marine macrolitter datasets from the pilot monitoring surveys on the sea surface and the seafloor.

Result 2.2: The core group will be trained (pilot surveys, training workshop, peer-to-peer process) on how to properly monitor marine macrolitter (and microlitter) on the sea surface and macrolitter on the seafloor.



Task 3:

Assess the amounts, types, composition and sources of marine litter and identify management options and develop a draft Plan with priority measures for reducing marine litter



Result 3.1: Comprehensive assessment of the amounts, types, composition and sources of marine litter in Morocco.

Result 3.2: Identification of management options for tackling marine litter in Morocco.

Morocco.

Result 3.3: Propose a draft Plan with priority measures for reducing marine litter in Morocco



Task 4:

Build capacities for informed decisionmaking with regards to marine litter and for operationalizing best practice marine litter measures via a workshop

Result 4.1: A wider group trained on how to make informed decisions based on sound scientific evidence and international experience in the field.

Result 4.2: A shortlist of marine litter priority measures.

Result 4.3: A wider group trained on how to operationalize best practice marine litter measures.

Result 4.4: Monitoring indicators agreed.



DELIVERABLES



Tasks	Deliverables
Task 0	
Kick-off meeting	
Task 1	D.1.1. Inception mission report
Preparatory actions, including an inception mission to Morocco, to kickstart the activity	
Task 2	D.2.1. Marine macrolitter datasets
Carry out marine macrolitter pilot surveys on the sea surface and the seafloor, including a hands-on training & peer mentoring	D.2.2. Training & peer-to-peer mentoring report
Task 3	D.3.1. Assessment report, including a literature review and a
Assess the amounts, types, composition and sources of marine litter and	section with the identification of management options
identify management options and develop a draft Plan with priority measures for reducing marine litter	D.3.2. Draft Plan with priority measures for reducing marine litter
Task 4	D.4.1. Workshop report, including shortlist of marine litter
Build capacities for informed decision-making with regards to marine litter and for operationalizing best practice marine litter measures via a workshop	priority measures and the follow-up actions agreed by the stakeholders
Task 5	D.5.1 Synthesis Report
Synthesis Report	D.J.1 Synthesis Neport

2nd WES activity in Morocco



N-E-MO-1: Joint initiative for the establishment of the management chain for PET bottle packaging within the framework of EPR in Morocco

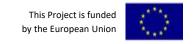
Aim: to improve the sorting, collection and recovery system for PET beverage packaging waste in Morocco through the
establishment of Extended Producers Responsibility (EPR) in the PET sector.

Objectives:

- Take stock of relevant, already existing initiatives on packaging waste management
- Facilitate effective dialogue among all stakeholders involved in the sector
- Set up a monitoring group for the implementation of EPR in the PET bottles sector (COPIL)
- Provide technical assistance to establish a roadmap and a work plan, for the establishment of an operational model for the management of PET beverage packaging based on the principle of EPR

■ Read more: https://www.wes-med.eu/activities type/n-e-mo-1-support-for-the-promotion-of-green-entrepreneurship-circular-economy-and-green-banking/





ABOUT THE TRAINING



DAY 1: 25 APRIL 2023 | THEORETICAL SESSIONS

09:00-09:30	Registration	
09:30-10:30	Welcome, opening remarks, getting to know each other	
09:30-10:00	Welcome and Opening Remarks	
	- Representative from the Ministry of Energy Transition and Sustainable Development	
	in Rabat	
	- Dr. Thomais Vlachogianni, WES Senior Marine Litter Expert	
	- Mr. Driss Nachite, WES National Marine Litter Expert	
	,	
10:00-10:15	Tour de table	
10.00 10.15	Tour de table	
10:15-10:30	lce-breaker	
10:30-11:15	Session 1	
10:30-11:00	Brief overview of the WES project and introduction to the activity	
10.50 11.00	- Dr. Thomais Vlachogianni, WES Senior Marine Litter Expert	
	- Mr. Driss Nachite, WES National Marine Litter Expert	
44.00.44.45	later Oak and OOA	
11:00-11:15	Intro Quiz and Q&A	
11:15-11:45	Coffee break	
11:45-13:00	Session 2	
11:45-12:15	Marine litter in the Mediterranean: an overview of research and policy advances	
	- Dr. Thomais Vlachogianni, WES Senior Marine Litter Expert	
12:15-12:30	Marine Litter Monitoring Programs and Activities in Morocco	
	- Representative from the Laboratory of Studies and Monitoring Pollution, in Rabat	
12:30-13:00	Q&A	
13:00-14:00	Lunch break	

14:00-15:30	Session 3
14:00-14:40	Introduction to marine litter monitoring & overview of the state-of-the-art methods - Dr. Thomais Vlachogianni, WES Senior Marine Litter Expert Q&A
14:40-15:15	Monitoring macrolitter on the sea surface and on the seafloor: experimental design and survey protocols - Dr. Thomais Vlachogianni, WES Senior Marine Litter Expert Q&A
15:15-15:30	Coffee break
15:30-16:30	Session 4
15:30-16:00	Monitoring microlitter on the sea surface with manta trawling: experimental design and survey protocol - Dr. Thomais Vlachogianni, WES Senior Marine Litter Expert Q&A
16:00-16:30	Introduction to next day's field work and wrap up of the day
16:30	Closing

ABOUT THE TRAINING



DAY 2: 26 APRIL 2023 | HANDS-ON SESSIONS

08:30	Departure from the hotel to Mdiq
09:00-12:30	Field sessions & field work
09:00-09:15	Brief introduction to the fieldwork
	- Dr. Thomais Vlachogianni, WES Senior Marine Litter Expert
09:15-12:30	Monitoring marine macrolitter on the seafloor with scuba diving
	- Group work to characterize and classify the seafloor litter items collected
12:30-13:00	Return to the hotel
13:00-14:00	Lunch break
14:00-16:30	Sessions at the hotel
14:00-14:30	Discussion of the fieldwork: findings and takeaways
	- Dr. Thomais Vlachogianni, WES Senior Marine Litter Expert
	- Mr. Driss Nachite, WES National Marine Litter Expert
14:30-15:15	Transforming marine litter related observations to fit-for-purpose data: challenges,
	uncertainties, conclusions & lessons learned
	- Dr. Thomais Vlachogianni, WES Marine Litter Expert
15:15-15:30	Coffee break
15:30-16:30	Wrap-up, closing quiz, evaluation and certificates
16:30	Closing

المملكة المغربية XHAS+ I MEYOSO+ Royaume du Maroc







2nd WES MARINE LITTER MONITORING CAMPAIGN IN TETUAN



DAY 3: 27 April 2023

DAY 4: 28 April 2023



FLOATING MACROLITTER MONITTORING SURVEYS



FLOATING MICROLITTER MONITTORING SURVEYS



