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European Maritime Day, 18 May 2016, Turku

MIO-ECSDE a network of networks

WHO WE ARE

We are a nonprofit Federation of over 128 Mediterranean NGOs for Environment and Sustainable Development

HAT WE DO

We act as a technical and political platform for the intervention of NGOs in the Mediterranean scene

OUR MISSION

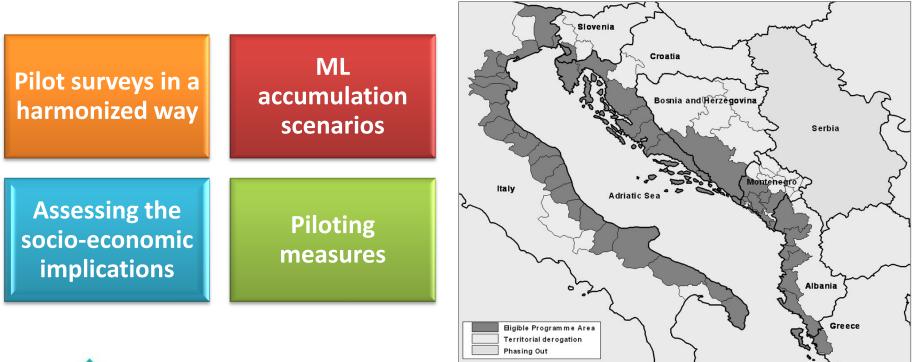
Our mission is to protect the Natural Environment and Cultural Heritage and promote Sustainable Development in a peaceful Mediterranean

New insights

from the Adriatic & the Mediterranean Seas

The IPA-Adriatic DeFishGear project The UNEP/MAP Regional survey on abandoned, lost or discarded fishing gear & ghost nets in the Mediterranean sea

Strengthening the science-policy interface: the DeFishGear project









The project is co-funded by the European Union, Instrument for Pre-Accession Assistance

Sampling sit

Code

ng sites		Po nveßele Skale Foce Bevano-Ravenna
		Cattolica Split Omiš Brgujac-Vis Neretva outflow Salpunara-Mijet
10		Abruzzo Grabova-Mijet Risan Tivat Tivat Velipoje Rrushkuli
Compartment	Count of locations	Durrës
Beach	32	Viores Ipsos Corfu Acharavi-Corfu Halikouna-Corfu
Beach	5	Lais SIO NOAA U S Navy NGA GEBCO Image Landsat
Biota	54	
Biota	2	1YK
Seafloor	8	a faso
Seafloor	65	(E EN388 E EN388
Sea surface	30	4137 208
Sea surface	26	
	222	
S COM BORNEY		

Koperseč

Beach Floating litter Seafloor litter Biota Microlitter

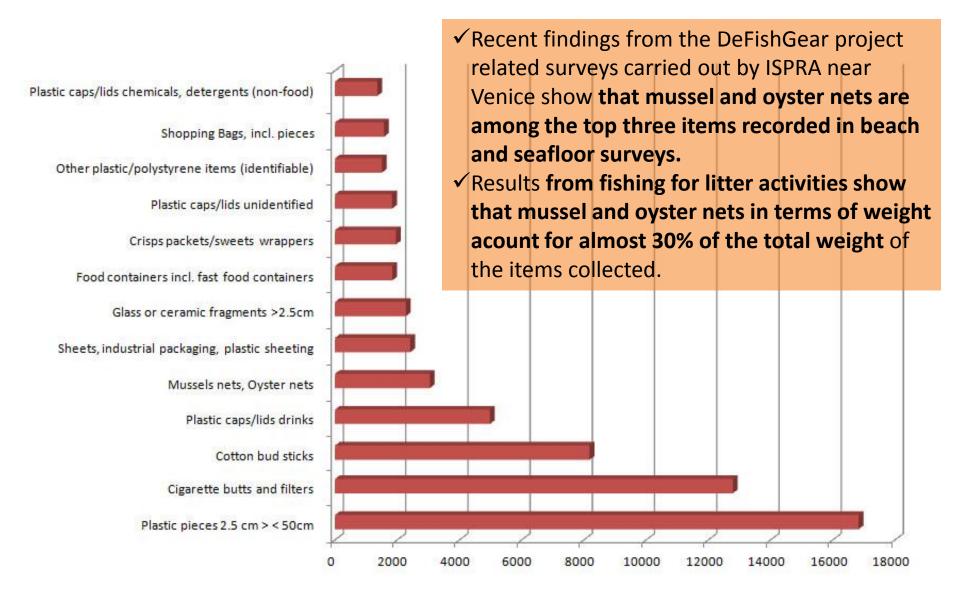
River outflow

Google ea

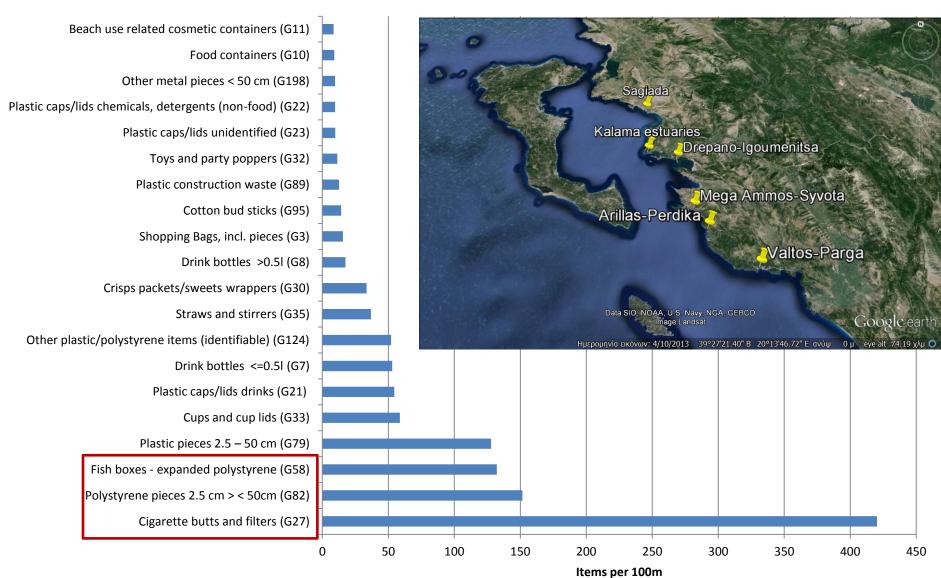
BeMa BeMi BiMa BiMi SfMaSc Sea Sea SfMaTr SsMa Sea SsMi Sea Total

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Aggregated results for beach litter

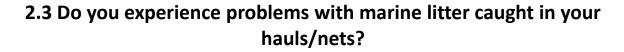


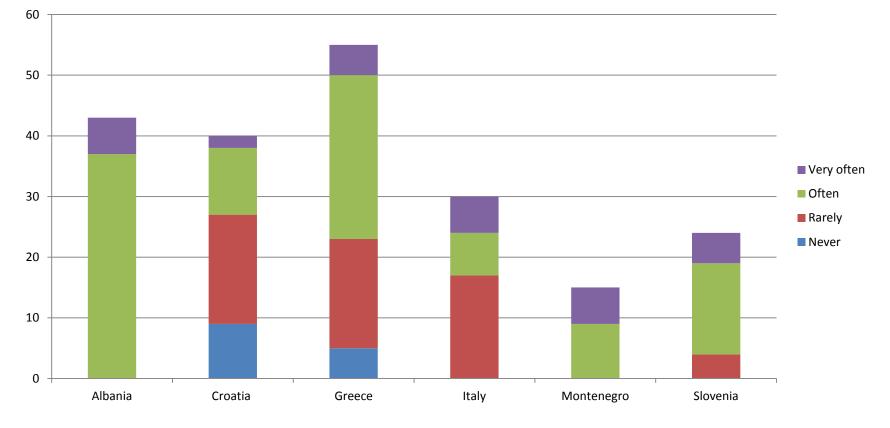
Top 20 items per 100m



Top 20 items

Aggregated results for the fisheries sector





Aggregated results for the fisheries sector

How would you assess the impacts of ghost nets on fisheries and/or biodiversity in your area?

How would you assess the occurrence of ghost nets (lost fishing gear) in your area?

17% 20% 44% ant problem 32% moderate problem insignificant p oderate problem serious problem rious problem 39% 48%

Preliminary results related to the aquaculture sector

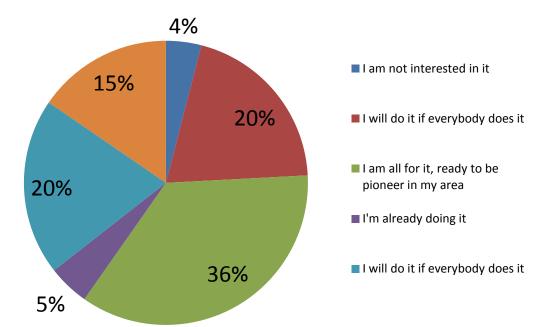
- ✓ On average the direct and indirect costs arising from marine litter per aquaculture farm unit per year range from some 2.000-18.000 €.
- ✓ The average amount reported for: Albania 2046 €/year, Greece
 3668 €/year, Italy 4286 €/year, Croatia 18.000 €/year.
- In general, most costs were incurred because of: loss of revenue due to spoiled livestock; costs for divers to clean facilities or to un-foul boat propellers; loss of time due to clearing litter from the farm facilities; cost of new equipment and facilities. I
- ✓ In comparison to the average cost of marine litter to aquaculture producers recorded at 580 € per year in Scotland (KIMO, 2010), the costs assessed in the Adriatic were considerably higher.



THE FISHING FOR LITTER MEASURE

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WHAT IS YOUR OPINION ABOUT THE 'FISHING FOR LITTER' MEASURE?



PILOTING MEASURES - OUTPUTS

Ghost nets retrieval from sea

Fishing for litter campaigns

Derelict fishing gear management schemes

- Mobilized 400 fishermen who have been very active throughout the project
- ✓ 113 tons of DFG were collected in ports, ¬ 50% were mussel nets, ¬30% was sent for recycling
- ✓ 90 tons of ML were collected by the FfL activities
- ✓ Only 8 tons of ghost nets were collected from the sea

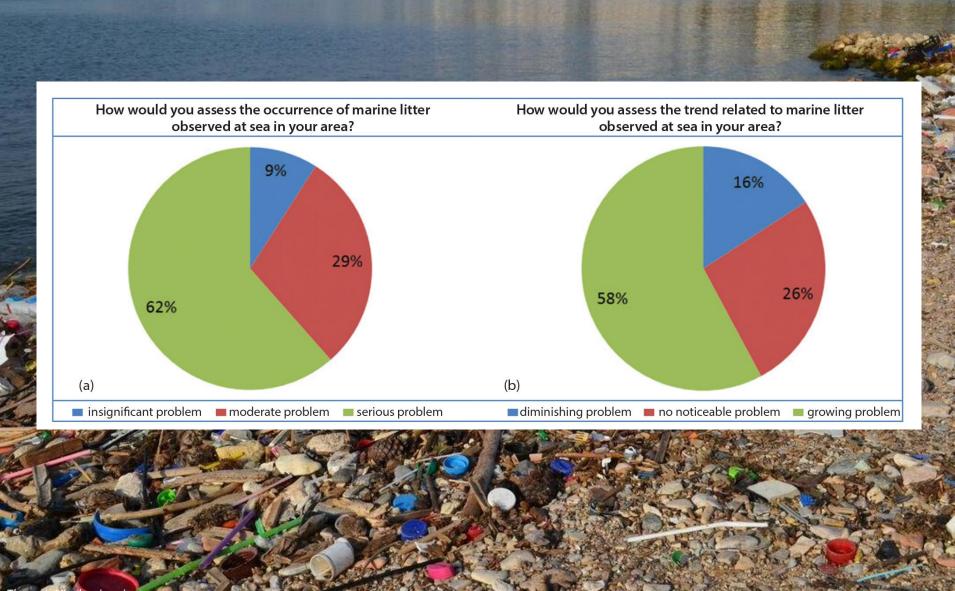
The UNEP/MAP MEDPOL & MIO-ECSDE survey on ALDFG





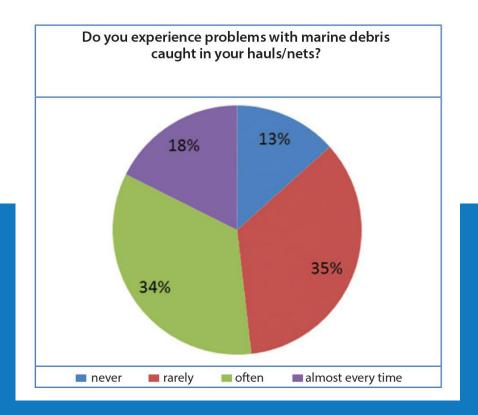
Survey Countries	Survey locations	Partner	Category
Albania	Vlora, Durresi, Saranda, Lushnje-Fier, Shengjin	ECAT	NGO
Algeria	Zemmouri, Djinet, Dellys	Association Ecologique de Boumerdès (AEB)	NGO
	Taza National Park	MedPAN South Project (WWF MEDPO)	NGO
Croatia	Komiža, Umag, Zadar, Poreč, Split, Hvar island, Banjole, Sali, Vela Luka, Sreser, Lošinj, Novalja, Vinišće, Pula, Kali, Podgora, Lastovo, Tribunj, Biograd na moru, Savudrija, Senj, Bol, Primošten, Rijeka, Zaglav	Sunce	NGO
Egypt	North Sinai (mostly in Areesh, Bear Al Abd - Bardaweel Lake, El Kherba village)	Arab Network for Environment and Development (RAED)	NGO
Israel	Various locations along the 190km long coast of Israel	EcoOcean	NGO
Lebanon	Alsarafand, Manara Rass Beirut, Saida, Bebnin, Ouzai, Tyre, Alnakora and Tripoli	Operation Big Blue Association (OBBA)	NGO
Morocco	Tangiers, Mehdia (Atlantic)	Moroccan Club for Environment & Development (CMED)	NGO
	Alhoceima (Mediterranean)	AGIR	NGO
Tunisia	Gaza and surrounding area	Mahmoud Ibrahim Alsheikh Eld	Consultant
Turkey	Lattakia and surrounding area	Syrian Coast Society for Environmental Protection (SCSEP)	NGO
Syria	Kelibia	Association de l'Environnement de Kelibia	NGO
Palestine (Gaza)	Marmara Bay, Bodrum, Fethiye, İzmir	Turkish Marine Environment Protection Association (TURMEPA)	NGO

Marine Litter | a real problem



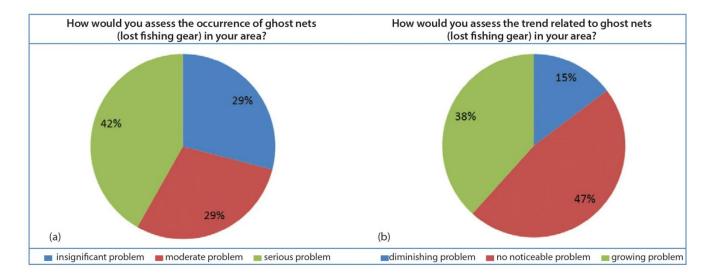
) Thomais Vlachogianni

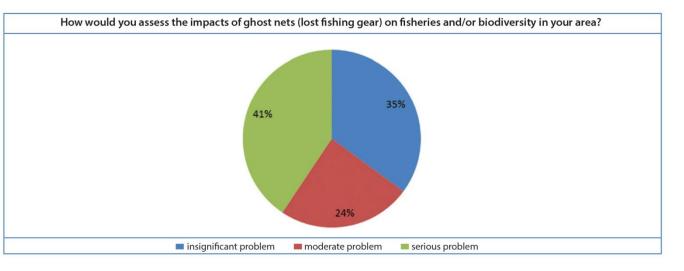
Marine litter caught in hauls and nets



Some **52%** reported that they experience often or almost every time problems with marine litter caught in their nets, which highlights also the socio-economic implications of marine litter to the fisheries sector.

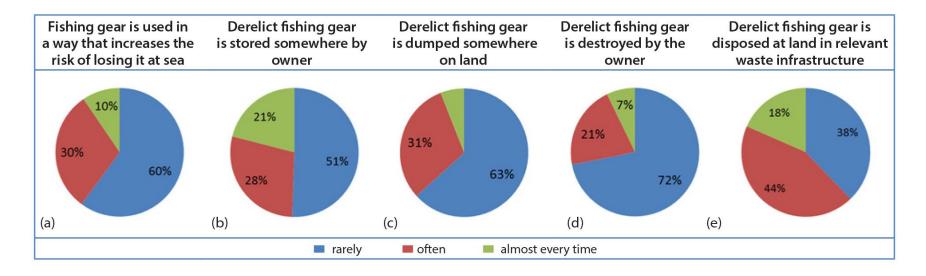
ALDFG & GHOSTS NETS | A PROBLEM IN THE REGION

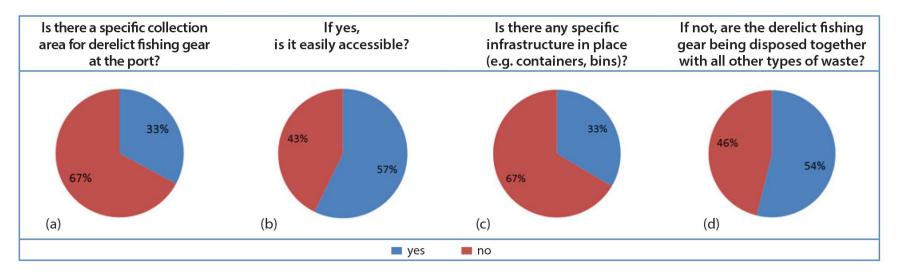




Further work is needed to make accurate estimates of the extent of the problem...

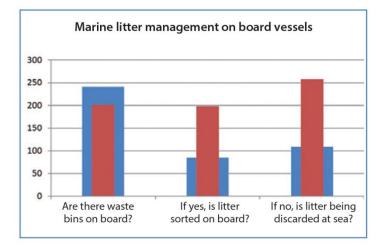
DFG management practices

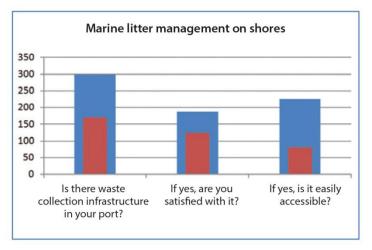






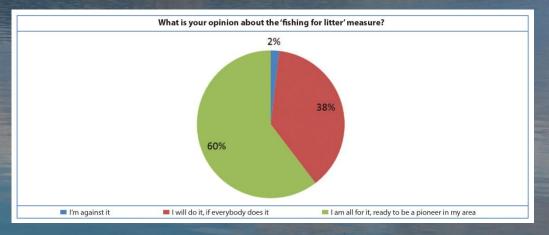
Marine litter management practices on board & on shore





Lots of room for improvement!

The large majority (~98%) of the fishermen expressed their willingness to engage themselves in the "fishing for litter measure"



Concluding remarks

- The contribution of the fisheries and the aquaculture sectors substantially contribute to the problem of ML in the Adriatic & Mediterranean Seas.
- The implications of ML for the sectors themselves are significant.
- The willingness to engage themselves into implementing targeted measures is strong.
- What remains to be thoroughly addressed & assessed is the effectiveness of the identified measures in order to apply the most suitable ones...



For more info: <u>www.mio-ecsde.org</u> vlachogianni@mio-ecsde.org



For more than twenty years joining forces & building bridges in the Euro-Mediterranean area