

Technological approaches for circular economy solutions in terms of prevention, recover, re-use and recycle of fishing gears to obtain added-value products in the textile industry (OCEANETS) EASME/EMFF/2017/1.2.1.12-S2 MARINE LITTER

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Research and Innovation for blue jobs and growth in the Mediterranean Area





ACRONYM: OCEANETS

FULL TITLE: TECHNOLOGICAL APPROACHES FOR CIRCULAR ECONOMY SOLUTIONS IN TERMS OF PREVENTION, RECOVER, RE-USE AND RECYCLE OF FISHING GEARS TO OBTAIN ADDED-VALUE PRODUCTS IN THE TEXTILE INDUSTRY.

- COORDINATOR: AIMPLAS
- BENEFICIARIES: ARVI; AVC; ECOALF; SINTEX AND UNIVERSITY OF VIGO
- DURATION (START DATE/END DATE): 1/01/2019-30/06/20201
- PROJECT BUDGET: **532.575,00**
- EU CONTRIBUTION: 426.060,00



CALL ID: EASME/EMFF/2017/1.2.1.12/S2/03/S12



Well-balanced → Presence in the whole value chain



CONCEPT



Demonstrate the techno-economic, environmental and social viability of using the marine litter recovered (mainly nets) in the port authorities in the Atlantic Ocean in order to obtain a new product for the high quality textile industry. Advanced geolocation technologies will be used to monitor and quantify the current marine litter status.

The generation of a new economic activity and the viability analysis will establish a sustainable approach since it refers to a new business development.



The geolocation of those critical point will allow the prevention, concentration reduction and harmfulness as well as the recovery of the key marine litter specified in the technology concept. The valorisation of the current waste extracted from the sea will be focused on the high quality textile sector, other potential application will be analysed in order to obtain the maximum environmental, social and economical yield.

The objective of the OCEANETS project is to guarantee the viability of circular economy of certain fishing gear through the development of an ICT tool (prevention) and optimization (valorisation) of the recycling technologies.











Prevention of the loss of fishing gear in the sea



- Compilation of more than 500 "historical" hotspots located in the Northwest Atlantic (FAO 27), Northeast Atlantic (FAO 21) and Mediterranean Sea (FAO 37).-
- 37 registered users, including fishing skippers, fishery observers and researchers from the Spanish Institute of Oceanography.
- More than 100 "new" hotspots located in the Northwest Atlantic (FAO 27), Northeast Atlantic (FAO 21) and Mediterranean Sea (FAO 37).
- 10 fishing skippers have tested the tool during one fishing trip (90 days)



Type of event registered at the Loss of fishing gear warning tool

Latitude (Dd)	Longitude (Dd)	Fishing area
43.63000	-3.17000	Bay of Biscay
43.81667	-49.61667	Northwest Atlantic (Division 21.3N)
44.46111	-48.93889	Northwest Atlantic (Division 21.3N)
43.60278	-49.67500	Northwest Atlantic (Division 21.3N)
43.66861	-50.01833	Northwest Atlantic (Division 21.3N)
48.11972	-47.25389	Northwest Atlantic (Division 21.3L)

Lost fishing gear data registered





RECOVERY OF NETS AND FISHING GEAR









RECOVERY OF NETS AND FISHING GEAR







RECOVERY OF NETS AND FISHING GEAR



Analysis of recyclability and search of applications. Mechanical recycling.









Environmental assessment and their socioeconomic evaluation Life Cycle Assessment

EXPLOITATION AND SUSTAINABILITY PLAN



Thank you !

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