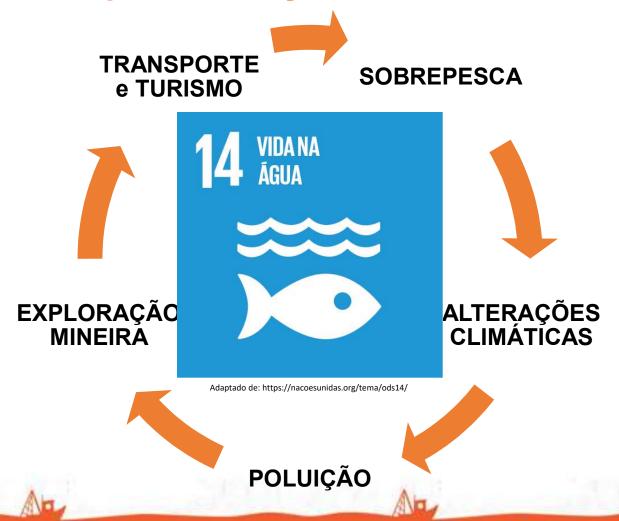


#### Principais ameaças



















































## LIXO MARINHO



LIXO GERADO NA ZONA COSTEIRA 100 milhões tons/ano

Todo o lixo oceânico resulta da má gestão dos resíduos sólidos pelos humanos.

O plástico representa a maior e mais preocupante parte do lixo marinho (70 a 95%).

**PLÁSTICO** AO

**20%**ORIGEM DE EMBARCAÇÕES

Fonte: Ocean Action

#### Distribuição do lixo marinho



 $Adaptado\ de\ from:\ https://issuu.com/decojovem/docs/e-book\_chef\_fish\_en$ 



# iversity and marine litter: an interaction knowledge base, Interreg Med Biodiversity Protection Project, 2

#### Litter caught in the nets

- 1. Destroys fishing gear
- 2. Destroys the catch
- 3. Fishers lose time





-€61.7 million/year

Economic loss caused by marine litter to the EU fishing fleet



## MAIN AIMS AND OUTPUTS



New technology to track fishing gears



ACCOUSTIC SYSTEMS



ROBOTIC RECOVERY SYSTEM



#### **AWARENESS**

Awareness actions developed by fishers for fishers



**WORKSHOPS** 



BEST-PRACTICES
GUIDE



DAY



Assess marine litter impact



ENVIRONMENTAL HARMFULNESS



SOCIAL-ECONOMIC IMPACT



## MAIN OUTPUTS



New technology to track fishing gears



ACCOUSTIC SYSTEMS



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Assess marine litter impact



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SOCIAL-ECONOMIC IMPACT







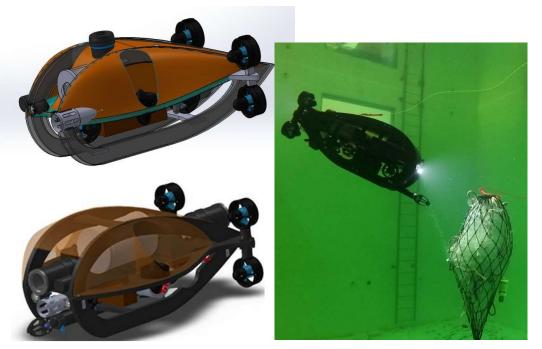
Small pinging device (palm sized)

Acoustic tags on fishing gear (unique id)





#### Vehicle prototype design



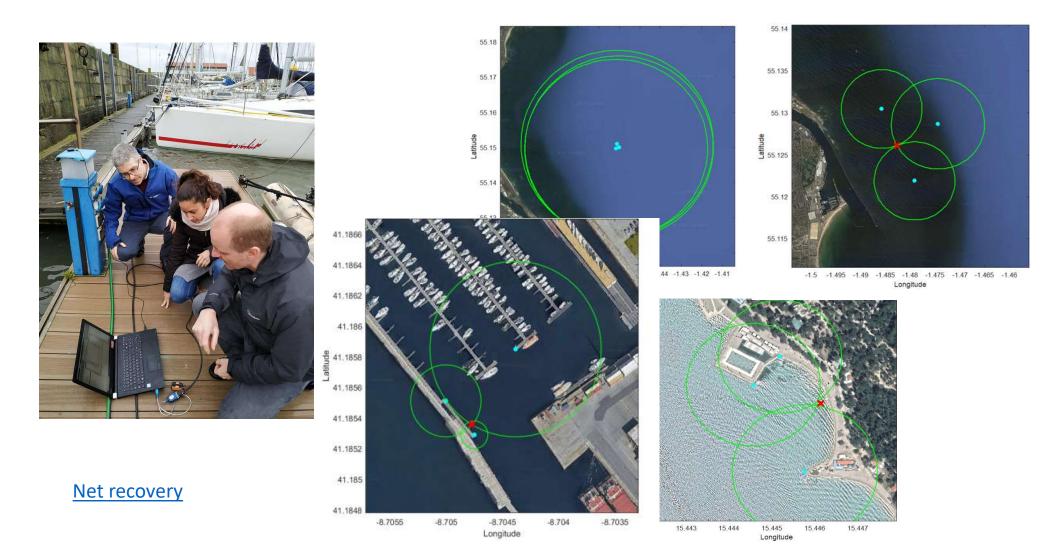


Autonomous ROV (hybrid ROV) autonomously locates and approaches lost gear (without human pilot)



#### Detection and recovery system development





## MAIN OUTPUTS



New technology to track fishing gears



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#### **AWARENESS**







# Provides us information for

**WORKSHOPS** 

For fishers by fishers!



#### It explains

- what to do with the litter produced on board
- What to do with the litter collected from the sea
- How to discard properly the litter

Engage fishers to the necessity to avoid marine litter to achieve productive and healthy marine ecosystems, emphasising the important role that fishers can have as guardians of the ocean by giving an example to other maritime activities of good-practices towards reduction of marine litter





# **AWARENESS**



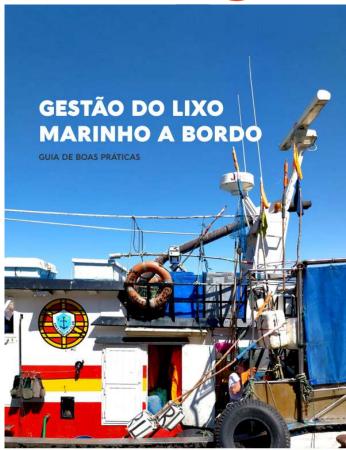


Provides us information for

**WORKSHOPS** 

For fishers by fishers!













Fishers collect all the marine litter produced on board and caught in the gears





Marine litter deposit in the harbours

Marine litter quantified and classified in different categories







## **AWARENESS**

Fishers collect all the marine litter produced on board and caught in the gears







Marine litter quantified and classified in different categories







## Take Home Message

- Is possible to prevent and reduce marine litter, including lost gear, from fisheries
- Need to bring together all key fisheries players, in particular fishers, but also administration, managers, police makers and researchers

