

OCEANETS SUMMARY:

Around 640,000 tons of fishing equipment are lost or abandoned in the oceans annually, which can remain in the oceans for up to 600 years. The loss or discarding of fishing gears can have particularly harmful impacts at sea, producing the effect of the so-called *ghost fishing*. This project will prevent and correct this situation, in line with Action 9 of the Joint Communication on International Ocean Governance.

OBJECTIVES:

- ▶ **Guarantee** the viability of circular economy of certain fishing gear through the development of an ICT tool (prevention) and optimisation (valorisation) of recycling technologies.
- ▶ **Demonstrate** and develop high added value products to show the technical, economic and environmental viability, involving the whole value chain.
- ▶ **Reduce, monitor and recycle** litter of sea-based sources.

CONSORTIUM:

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asociación
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ARVI
Fundada en 1964
COOPERATIVA DE ARMADORES
DE PESCA DEL PUERTO DE VIGO

FINANCED BY:



This Project has received funding from the European Union EASME's European Maritime and Fisheries Fund under grant agreement N° 2017/1.2.1.12/52/03/552.789390

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oceanets

TECHNOLOGICAL
APPROACHES FOR
CIRCULAR ECONOMY
SOLUTIONS

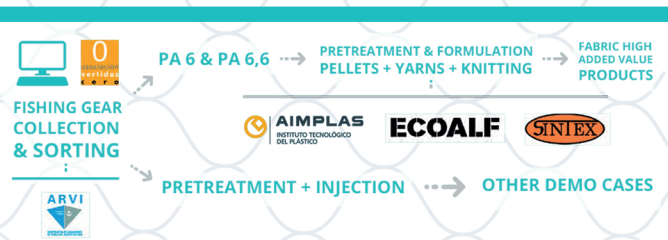
IN TERMS OF
PREVENTION, RECOVER,
RE-USE AND RECYCLE OF
FISHING GEARS TO
OBTAIN ADDED-VALUE
PRODUCTS IN THE
TEXTILE INDUSTRY

OBJECTIVES:

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

SPECIFIC RELATED OBJECTIVES ARE AS FOLLOWS:

- 1 Development and validation by an ICT tool, on-line and updatable.
- 2 Awareness raising of fishermen against marine litter and their key role on the project.
- 3 Development and validation of a recycling technology.
- 4 Secondary applications for other streams.
- 5 Assessment of the cost-efficiency and environmental impact.
- 6 Definition of most valuable business model for textile industry.
- 7 Identification of actions and recommendations to be taken in the near future.
- 8 Implementation of public communication actions.

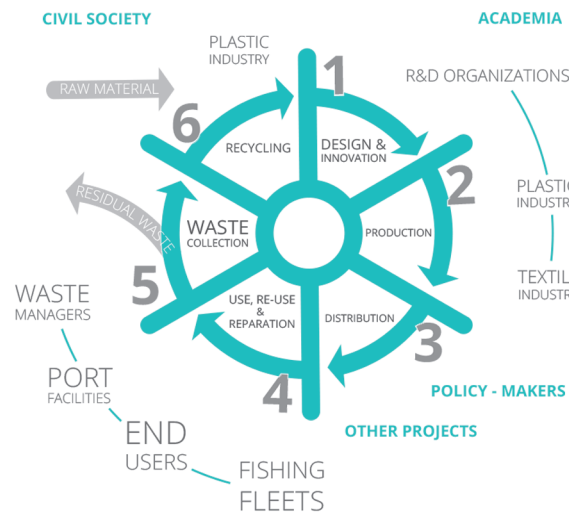


SOCIOECONOMIC & ENVIRONMENTAL SUSTAINABILITY

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THE OCEANETS PROJECT IS FOCUSED ON THE REDUCTION, MONITORING AND RECYCLING SCHEMES FOR FISHING GEARS THAT WILL LEAD TO SEVERAL BENEFITS OVER THE CONVENTIONAL MANAGEMENT:

- ▶ **Enlarge** of the fishing gears life thanks to the prevention of their loss in the marine environment due to entanglements.
- ▶ **Rise awareness** and involvement of the fishing sector in the solutions against the marine litter in general and against discarding and loss of fishing gears, in particular.



- ▶ **Reduce landfilling** of a waste stream, the concentration of marine litter and its ecological impacts as well as the loss of valuable resources.
- ▶ **Increase** the **recycling rates** of end-of-use fishing gears.
- ▶ **Open up the market** of high-quality textile sector by improving the quality of the yarn obtained from the **recovered fishing gears**.
- ▶ **Support** the implementation of policies to **reduce marine litter** from sea-based sources.

MAIN RESULTS EXPECTED AT THE END OF THE PROJECT:

- ▶ Awareness of fishermen involved in the project of the environmental, economic and social problem of marine litter, improving their professional skills and competences of fishers, ship operators and crew, and blue economy workers in marine sustainability and circular economy fields.
- ▶ Improvement of sorting activities in the ports in order to get a more efficient preparation strategy (including transport) of fishing gear for recycling.
- ▶ Development and implementation of ICT tools for the signalling of: 1) obstacles that lead to the loss of nets and fishing gear (prevention), 2) lost fishing nets and gear (recovery). This tool will be harmonised with the current monitoring and quantification systems.
- ▶ Attainment of high-quality textile with special benefits (antimicrobial, chromatic, etc.) from net and fishing gear waste (marine litter).
- ▶ Elicitation of other complementary applications (e.g. construction, urban furniture) for the recycling of waste from nets and fishing gear (marine litter).

MAIN OUTPUTS EXPECTED AT THE END OF THE PROJECT:

- 1 ICT tool.
- 10 skippers testing the ICT tool to ensure its implementation and adaptation.
- 7 tons of fishing gear on the whole project.
- 3 public awareness actions.
- Obtention of 50 lineal metres with 150-180cm of textile fibre (>90% recycled textile from fishing gear).
- 2 publications, 4 press releases and 4 workshops will be done along the project.
- Creation of an Advisory Committee (min. 5 experts).