

# STARFISH 4.0

Safety and tracking tools for artisanal fishermen



Co-funded by the European  
Maritime and Fisheries Fund

WESTMED  
blue economy initiative



STARFISH 4.0 proposes new technologies to improve the safety of small-scale fishers. The overall objective is to refine the product and services through user feedback and improve stakeholder engagement and the adoption of 4.0 technologies in a data-poor sector.

Small-scale fisheries play an important role in the European Union from a biological, economic and social perspective, amounting to 85% of all fishing vessels. But SSF are not currently monitored as large, industrial fishing vessels are; we do not know where they fish, nor how much, which creates significant challenges for sustainable resource management.

To address this issue, STARFISH 4.0 proposes the NEMO system: digital tools and technology specifically designed for these fishermen. It includes an innovative, solar-powered VMS transmitter seamlessly using Satellite/Cellular/IoT communication systems, a Big Data software monitoring platform, and dedicated mobile applications.

The system has been tested during 18 months with a total of 120 local fishers in Greece and Mauritania.



## Sylvie Giraud

(Sales and Marketing - Business  
Innovation, Sustainable Fisheries  
Business Unit CLS Group)

*“Small-scale fishers directly depend on the abundance of the species they target. Taking action to secure small-scale fisheries is an urgent priority and highly acute in the Med region where the fish stock situation is dramatic.”*

WestMED Stakeholder Conference, November 2021

## Project - responsible

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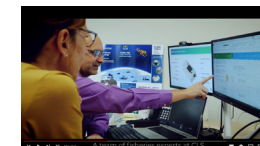
Countries	FR, MR, EL
Financing	EASME, EMFF
Budget	€ 1.158.000
Duration	24 + 12 months (Dec 2019 – Dec 2022)
Partners	<b>LEAD: Collecte Localisation Satellites - CLS (FR)</b> <ul style="list-style-type: none"> <li>• APC (EL)</li> <li>• ECR (MR)</li> </ul>



**2021 Best WestMED Project Award**  
Category: *Sustainable Fisheries, Aquaculture and Coastal Community Development*



Video  
STARFISH explained



Video  
NEMO: Connecting, Protecting, and Empowering Small-Scale Fisheries

## WestMED Initiative Alignment

The STARFISH 4.0 project is directly aligned with the 3 major goals of the WestMED Initiative: a safer and more secure maritime space, improved maritime governance and a smart and resilient blue economy

WESTMED PRIORITIES



Fisheries and  
Aquaculture



Maritime and marine  
knowledge (data gaps,  
data analysis and - sharing)



Maritime safety and  
response to marine  
pollution

## More Information

- <https://www.starfish-ssf.eu/>
- [@Starfish\\_SSF](#)
- [@starfish-ssf](#)
- <https://westmed-initiative.eu>