



# FISH-X

Use cases: Sharing lessons learned and best practices of engagement

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# Vessel tracking device – VMS (NEMO)

- All-in-one system specifically designed for monitoring, protecting and managing small-scale fisheries
- Hybrid global connectivity (GPRS/IoT networks in coastal areas and satellite systems when outside the range of terrestrial networks).
- Rugged & built to last, easy to install, solar panel –energy autonomous, automatic reporting, access to data, both manager & fisher, useful tool for verifying “active” fishers- spatial and temporal data



## Purpose of installing VMS

- Pilot testing of vessel tracking devices within SSF sector (improve digital infrastructure, gather data)







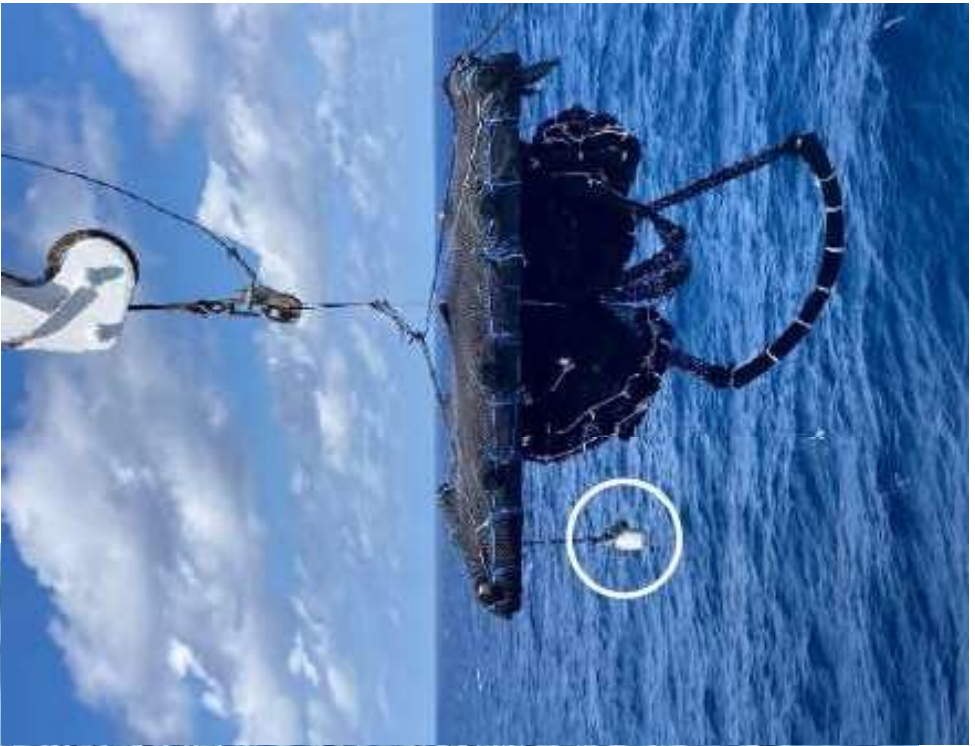
# Electronic gear marking device - NAOs



- Purpose: re-locating fishing gear such as lines, nets, pots, traps and anchored and drifting FADs
- NAOs has rugged and waterproof design
- Up to 30m shockproof on water
- Floats, and shall not be submerged deeper than 1 meter
- NAOs transmits data by satellite using ARGOS/KINEIS, by default 1 position per hour. There is no cellular modem.
- NAOs should be outside with a clear view of the sky.
- Battery life: 3 months to 2 years depending on the configuration







# INTRODUCTION

**Strategy** – defined stakeholders, organized events, established approach and support

**Stakeholders** - FLAG, Chamber of Trades and Crafts, Fishing cooperatives and organizations

Ministry of Agriculture/Directorate of fisheries

**Events** – workshops, conferences, meetings

**Approach** – facts, benefits, obligations



**Project started**  
**01.06.2022**

**First instalations**  
*July 2023*

**February 2024**  
*20 VMS installed*

**Project ends**  
**31.05.2025**

# APPROACH FOR THE ENGAGEMENT

- Questionnaire/Consent/GDPR
- VMS benefits (ownership, solar, red button...)
- Comanagement approach
- Ambassador for VMS
- Score list (SSF II project – BlueSeeds/BlueMove)





# LESSONS LEARNED

- Timing of engagement
- Fear of new spatio-temporal restrictions
- Concerns on privacy and data security
- Age structure of fishers
- Small fleet size
- **Sport and recreational fishers – no obligation for reporting**





# CLOSING REMARKS

- Expected changes after using VMS
- Roadmap for VMS installation
- Roadmap for sport & recreational fishers obligations



**GIVE A MAN A FISH AND YOU FEED HIM FOR A DAY**

**TEACH A MAN TO FISH AND YOU FEED HIM FOR A LIFETIME**

**GUIDE HIM TO FISH SUSTAINABLY AND YOU FEED FUTURE  
GENERATIONS TO COME**

