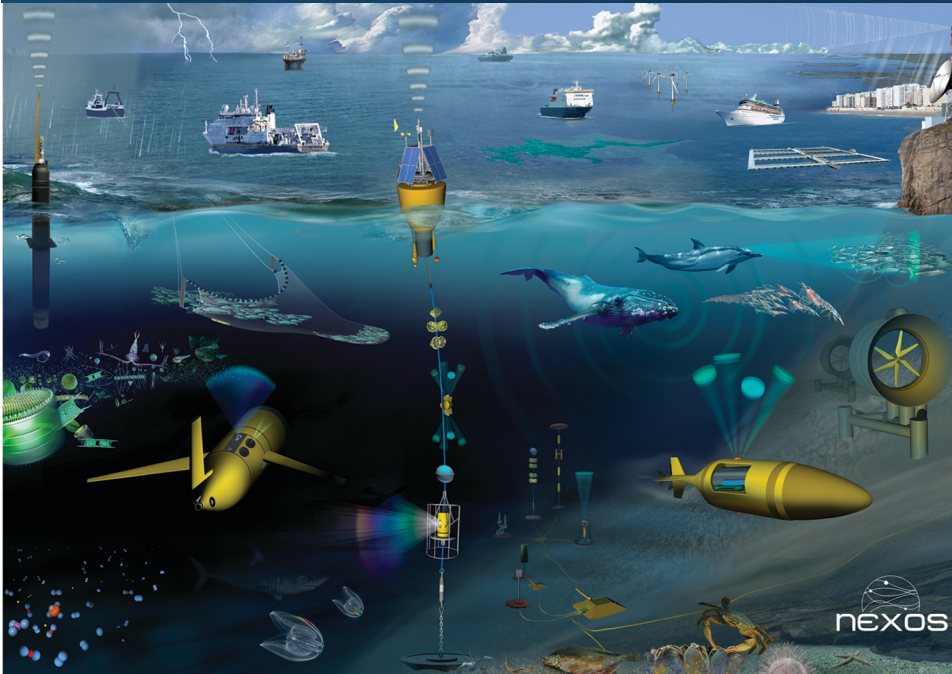
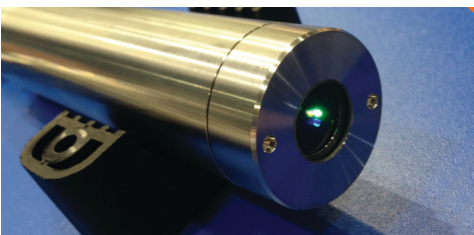


# Multifunctional Web Enabled Sensors for the Monitoring of a Changing Ocean



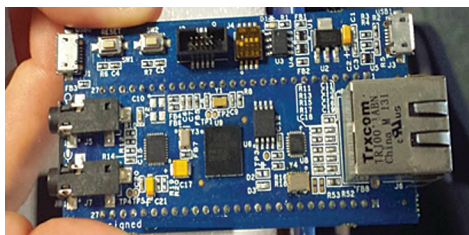
- Develop cost-effective, innovative and compact integrated multifunctional sensors deployable as “plug and play” modules for mobile and fixed ocean platforms.
- Incorporate design for easy integration and reconfiguration of sensor packages
- Life cycle assessment consider long term viability, user perspectives and market performance

## NeXOS Innovative Technologies Improve End-to-End Ocean Information for Users



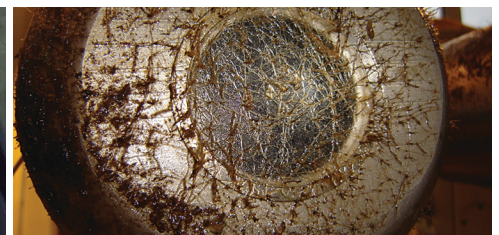
### Compact/Cost-efficient Sensors

- Multifunctional optical sensors (3 types)
- Passive acoustic sensors with embedded processing (2 types)
- Unobtrusive net mounted sensors for an Ecosystem Approach to Fisheries (EAF)



### Effortless Information Access

- Smart sensor interface and web components
- Plug and play sensors
- Real-time standard Web Services
- End-to-end operable chain



### Reliability and Availability

- Biofouling prevention
- Detection of the earliest stage of biological growth on sensor surface
- Conductive coating on the transducing interface of the sensor

# Integrating the NeXOS Sensors Into Fixed and Mobile Platforms

## Key Project Milestones

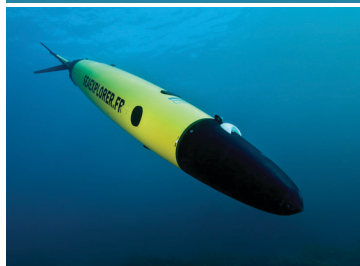
Laboratory Test ..... Jan. 2016

Field Validation Test ... Nov. 2016

Demonstrations ..... June 2017



BIOACOUSTICS AND NOISE



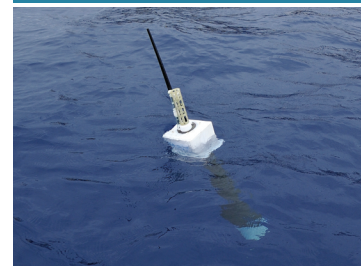
GLIDERS

## INTEGRATIVE SCENARIOS

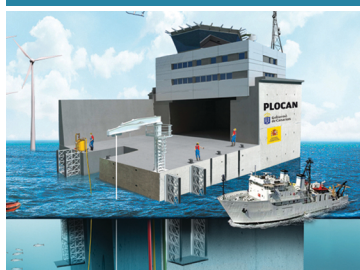
- Hydrocarbon observations with gliders
- Passive acoustic monitoring and characterization of underwater sounds
- Observations for sustainable fisheries equip selected fishing vessels with EAF sensors
- Carbon cycle and carbon sequestration monitoring with ferry-boxes
- Detection and characterization of phytoplankton blooms



FISHING BOATS



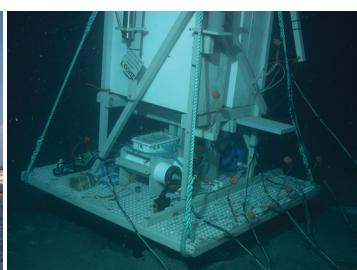
PROFILERS



OFFSHORE STRUCTURES



FERRY BOATS



OCEAN OBSERVATORY



MARINE MONITORING

Transition from sensor prototypes and commercial production—  
Our small and medium-sized enterprise's path to the future.

For more information, please visit [www.nexosproject.eu](http://www.nexosproject.eu) or contact us at: [info@nexosproject.eu](mailto:info@nexosproject.eu)

## PARTNERS

