# SEAOWL

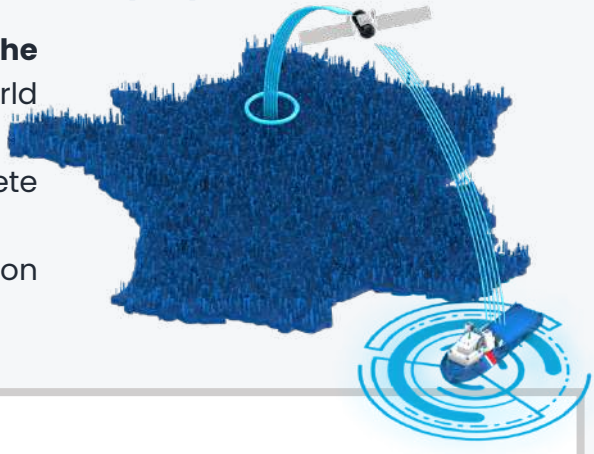
## PROVIDER OF DIGITAL MARITIME SERVICES

**ROSS - Remotely Operated Services at Sea –** introduces a new subsea work plan.
The service consists of remotely operating submarine missions (ROV & AUV) for offshore installations in deep seas.

- ⇨ **Improvement in Quality of Working Life**
- ⇨ **Reduction of the carbon footprint**
- ⇨ **Reduction in risks for personnel**
- ⇨ **Development of new services**

## AVAILABLE – FLEXIBLE – TELEOPERATED – ELECTRICAL

Key step of the project, the **« Proof of Concept » of the teleoperated vessel** realized in September 2020 is a world premiere.
The crew will tele-operate an 80-meter ship in complete safety and cybersecurity via satellite link.
The Maritime Affairs Department will issue the Navigation Permit for a remotely operated commercial vessel.



### The demonstration proves that :

- The captain has the same navigation functions as those on board (visual monitoring, radar, VHF, ships controls, ...)
- The technological solutions used to make those functions available are safe and secure (cybersecurity, redundancy of the telecom link, advanced control of the teleoperation system, ...)
- The system prevents and manages degraded situations (failsafe, advanced ship control, ...)

SEAOWL

# From maritime services to digital maritime services

The development of remote operation and automation technologies **fundamentally transforms the current Marine Operations**:

- Improvement of the safety of seafarers
- Better respect of the environment
- Greater economic efficiency

This development paves the way for **new maritime services**, strategic for countries with large EEZs:

- Better knowledge of the marine environment resources
- Significant strengthening of surveillance capacities in dangerous areas
- Opening up of areas isolated by sea

The ROSS project, led by SEAOWL with the support of ADEME and in partnership with many public and private players, is making a major contribution to these developments.

Its contribution revolves around:

- Control of **new risks** associated with remote operations and automation of maritime functions (in particular **maritime cybersecurity**)
- Adaptation of regulations to guarantee **maritime safety**
- Evolution of **maritime professions**

## SEAOWL becomes a world reference for ship remote operation and maritime cybersecurity services

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