AGESCIC

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ABOUT LIFE AGESCIC

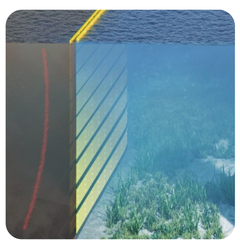
AGESCIC offers an innovative, unique, and economical technological solution to the two main environmental problems created by coastal works. The AGESCIC project aims at developing new technological solutions to reduce the impacts of coastal works on marine environments, in particular the impacts of noise, turbidity pollution and habitat destruction on marine fauna and ecosystems.

The AGESCIC project is the test phase in real conditions for three innovative technologies. They form a completely disruptive solution:

- Sound and turbidity containment system: SubSea Quieter® Blue Shield.
- System to control acoustic and turbidity impacts: Smart-PAM+.
- System to restore the ecosystems necessary for coastal fish: HAREST

A SYSTEMIC SOLUTION BASED ON 3 INNOVATIVE TECHNOLOGIES

Avoid / Reduce / Mitigate



SUBSEA QUIETER

Acoustic mitigation and turbidity containment. From near to far field

HAREST

Restores and monitors the ecological essential function after construction

SMARTPAM +

Works impacts monitoring

A TRIAL CAMPAIGN IN ST NAZAIRE

The AGESCIC project will conduct a trial campaign that will start beggining of 2024 at St Nazaire port.

Those tests will demonstrate and validate several functions of the system :

- Deployment and recovery process
- Acoustic efficiency at low and medium frequencies (from 50 to 5000 Hz)
- Acoustic containment
- Turbidity containment
- System fiability and repetability

INCREASING AWARENESS OF WATER POLLUTION

Acoustic Pollution

- Dangerous consequences on marine wild- life: loss of hearing sensitivity, trauma, embolism, disorientation.
- Sound intensity has increased up to 20 decibels (x100) in the last 50 years in some areas.

Turbidity

- Impacts the growth of benthic life by re- ducing light penetration
- Modifies the filtration capacity of bivalves
- Disturbs pelagic species distribution
- Frees chemicals substances trapped and accumulated in the sea floor entering the food chain

AGESCIC
Achieve Good Environmental Status for Coastal Infrastructures Construction

The Universitat Politècnicade Catalunya BarcelonaTech (UPC) is a public institution. Its Laboratory of Applied Bioacoustics is specialised in detection,classification and localisation of acoustic events of biological, anthropogenic or natural origin, that are integrated in global biodiversity monitoring programs.

Greenov one of the major actors of maritime cleantech, is committed to blue growth and clean tech development aligned with the preservation of maritime ecosystems. The first technology developed by Greenov is the SSQ, a Noise Mitigation System allowing to contain the underwater noise generated by maritime work .

Subsidiary of Bouygues Travaux Publics, Bouygues Travaux Publics Régions France is specialised in civil works, river and maritime works, earthworks and infrastructure reinforcing works.

Quiet-Oceans is the French leader in passive acoustics, underwater noise prediction, monitoring and mitigation.