



AGESCIC

Achieve Good Environmental Status
for Coastal Infrastructure Construction



SMARTPAM+

HAREST

SUBSEA QUIETER[®]

COASTAL INFRASTRUCTURE CONSTRUCTION CHALLENGES

With more than 400 projects per year in the EU, coastal and harbor construction is an important source of water pollution

- Impulsive and/or continuous noise emission
- Turbidity
- Pollution spreading over large areas

INCREASING AWARENESS OF WATER POLLUTION

Acoustic Pollution



- Dangerous consequences on marine wild-life: loss of hearing sensitivity, trauma, embolism, desorientation...
- 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 reducing 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

EUROPEAN PROBLEMATIC



The new European directive to reach Good Environmental Status for oceans by 2020 (MFSO 2008)

- Descriptors 6 and 7 - Turbidity
- Descriptor 11 - Acoustic pollution

AGESCIC

A new solution

To respond to that growing concern, a European consortium made of 4 partners has created **the AGESCIC project**

- Set of new/innovative technologies as a systemic solution
- Reduces marine environmental impacts of coastal works
- Restores the surrounding marine ecosystems

AGESCIC

Answers coastal works environmental challenges
with a disruptive and cost effective solution

A customer-oriented solution

Turnkey solution

Disruptive cost

Easy-to-use

Resilient to natural hazard (tides, currents, storms)

Adapted to coastal works & shipping traffic

Complies with European directives

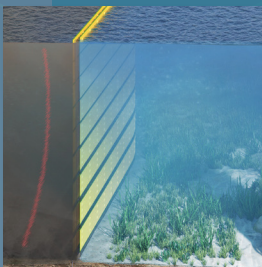
A SYSTEMIC SOLUTION BASED ON 3 INNOVATIVE TECHNOLOGIES

Avoid / Reduce / Mitigate

One system for several applications

- **SubSea Quieter[®]**
Acoustic mitigation and turbidity containment
From near to far field
- **SmartPAM +**
Works impacts & ecosystems real-time
monitoring
- **HAREST**
Restores the ecological essential function
after construction

SubSea
Quieter[®]



SmartPAM +



ECOLOGICAL GAINS

Up to 25 million m³ water
protected by equipped coastal
work

Restored and improved local
ecosystem

HAREST



CARBON FOOTPRINT FOR A 6 MONTH-WORK

CO₂ emission: 8t*

Energy consumption: 90 MWh*

*99.9% less than bubbles curtain

COASTAL INFRASTRUCTURE CONSTRUCTION CHALLENGES



NGOs / Think Tank



Governmental bodies



European Institutions



Scientific Community



Project Leads (harbour, regions,...)



Industry Coastal Works



Fishermen's associations



Consulting Companies



Clusters



Windfarm Installation, Extraction Companies

Join the stakeholders group

Be part of the system development
and prepare its implementation
across European coasts



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



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

Contact us
contact@greenov.green
www.greenov.green/LIFE-AGESCIC