

ABIOP

Accounting for BIOfouling through established Protocols of quantification



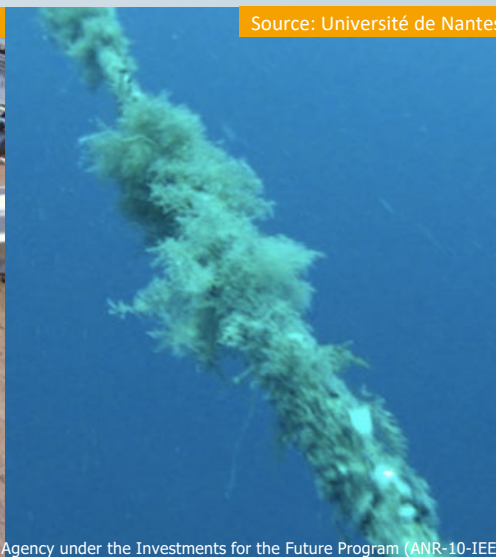
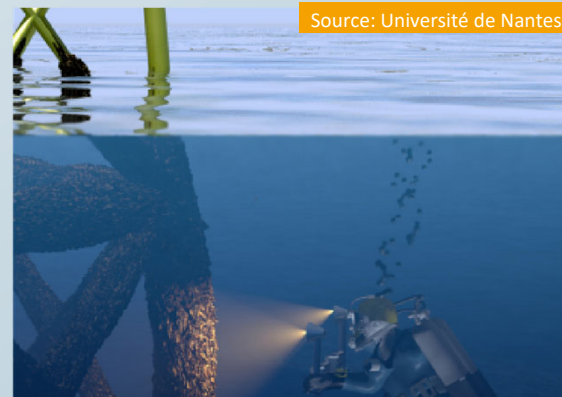
The effects and magnitude of biofouling on MRE systems are largely unknown and represent a challenge to the sector in the design and maintenance phases likely to impact the final technology LCOE.

The **ABIOP** project, bringing together expertise in marine biology, marine metrology and structural design, ultimately aims to provide reliable input data required for engineering. An in-depth synthesis of current knowledge on the nature of biofouling on different French maritime facades and the means to characterize and monitor it will be initially carried out.

A critical analysis of this synthesis, accompanied by complementary development, will allow the proposal of a variety of characterization protocols and biofouling monitoring methods adapted to different MRE technology sites.



Observation and quantification methods based on image analysis of newly developed measurement technologies, algorithms and statistical processing will be tested on four easily accessible and previously equipped pilot sites on the French Atlantic and Mediterranean maritime facades.



Objectives:

- To develop an in-depth synthesis of the knowledge on the nature of biofouling on the various French maritime facades, and the means to characterize and monitor it,
- Develop methods for characterization and quantification of biofouling to render reliable the necessary input data for the design and maintenance of MRE systems.



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