

# Cleanship

## PREVENTION AND DETECTION OF FOULING ON SHIP HULLS



Ships are frequently taken out of service for cleaning due to formation of fouling on them in the marine environment. Fouling buildup can result in increased fuel consumption and has an economic and environmental impact. Globally, marine industry spends billions of Euros in addressing fouling using various invasive cleaning techniques.

Cleanship proposes an effective non-invasive solution, using ultrasonic approach, for improving ship maintenance, by deploying long range ultrasonic waves travelling throughout plates of a ship hull for **prevention of fouling** and **detection of fouling** through the development of an integrated system.

A multidisciplinary consortium consisting of both industrial and academic experts from across Europe are collaborating to this end. A functional prototype system for validation is expected in due course.

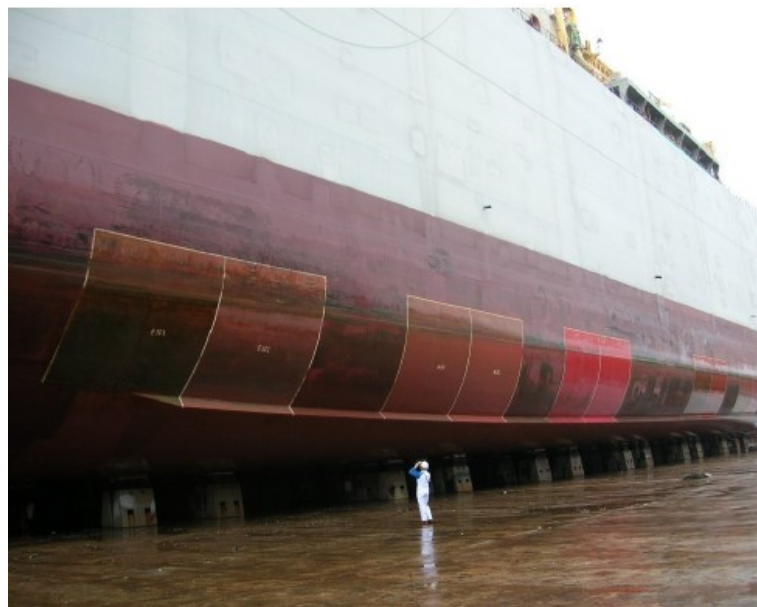
Updates are available via the **Cleanship** project website [www.cleanship-project.eu](http://www.cleanship-project.eu)

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Ship and biofouling example photos provided thanks to Lloyd's Register and Brunel Innovation Centre.

