

PRONICARE



TRANSNATIONAL COOPERATION FOR
PROTECTING NICHE AREAS FROM MARINE
CORROSION AND BIOFOULING BY GREEN
COATINGS AND NEW TEST TECHNOLOGIES

**BOARD
MEMBERS
WANTED!**



**LEARN ALL ABOUT PRONICARE AND BECOME
A MEMBER OF OUR PROJECT RELATED BOARDS**



This project has received funding from Research Council of Norway, The Malta Council for Science and Technology, and The Federal Ministry for Economic Affairs and Climate Action Germany (BMWK) via the MarTERA - ERA NET co-fund scheme (under grant agreement No 728053-MarTERA) of H2020 of the European Commission

Marine biofouling and corrosion are two key environmental and economic challenges for shipping, offshore infrastructures and maritime technologies.



Niche areas are typical hot spots for the accumulation of biofouling organisms and corrosion.

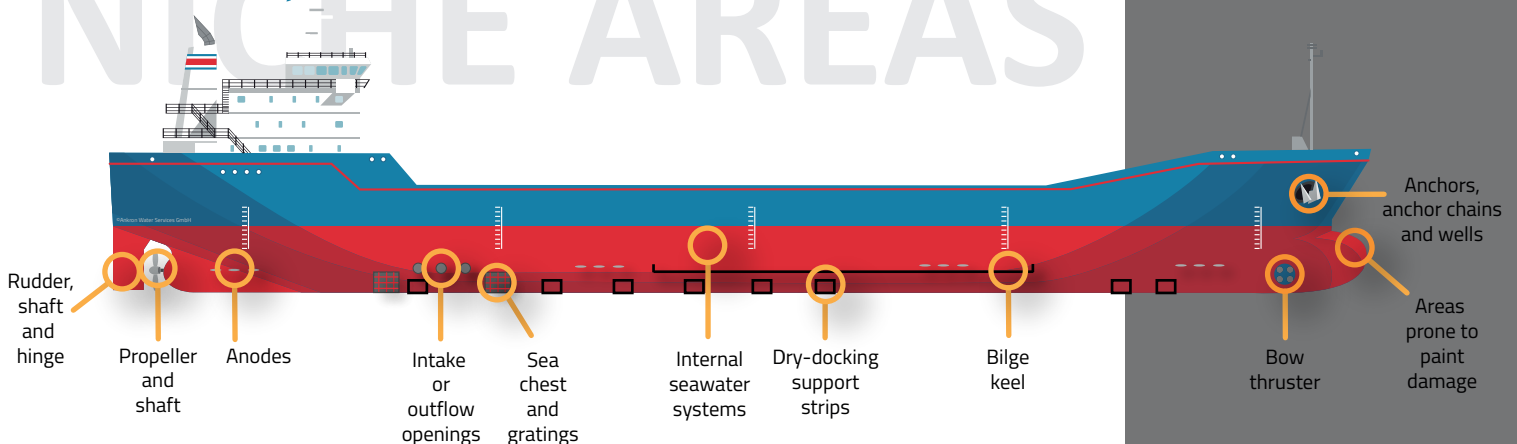
PROTECTION AGAINST BIOFOULING AND CORROSION

The aim of the PRONICARE project is to develop a copper-free, environmentally friendly hybrid sol-gel coating with functional additives that provides a combination of corrosion and fouling protection for metal surfaces in niche areas in shipping and aquaculture.

In parallel, an innovative mobile test unit will be built to evaluate the effectiveness of marine anti-fouling and corrosion systems for niche areas in a simulation approach.



NICHE AREAS





BASICS

PERIOD:
36 months
01.08.2022 - 31.07.2025

BUDGET:
1.921.000 €

COORDINATOR:
The project is coordinated
by SINTEF Industry,
Norway



CONSORTIUM

SINTEF Industry, Norway

AWI Alfred-Wegener-
Institut, Germany

Ankron Water Services
GmbH, Germany

AquaBioTech Group,
Malta

Funzionano AS, Norway

Kelvion Machine Cooling
Systems GmbH, Germany



FUND

MarTERA ERA-NET
COFUND by:

Bundesministerium für
Wirtschaft und Klima-
schutz (BMWK)

Norges forskningsråd –
The Research Council of
Norway (RCN)

The Malta Council for
Science and Technology
(MCST)

DEVELOPMENT OF MATERIALS AND FORMULATIONS



- Antifouling material
- Anticorrosion material
- Coating formulations

DEVELOPMENT OF TESTING METHODOLOGY



- Mobile test unit
- Test methodology
- Standardization

EXPOSURE AND ENVIRONMENTAL ASSESSMENT



- Antifouling properties
- Corrosion properties

VALIDATION AND FIELD TESTS



- Coating tests
- Evaluation of performance



GOALS



BOARD MEMBERS WANTED!

INNOVATION NEEDS COOPERATION

The maritime industry needs to find sustainable solutions for the highly dynamic biofouling sector that are regulatory appropriate, effective and technically feasible. Working together in partnership and openly exchanging information on the state of play can only be beneficial for all parties involved.

FOCUS

REGULATORY BOARD

- Policies and guidelines
- Interpretation of existing standards
- Future regulatory challenges

INDUSTRIAL BOARD

- Technology development
- Market trends and insights
- Compliance and challenges



The advantages of a network are obvious: We combine experience, identify needs and discuss risks and opportunities.

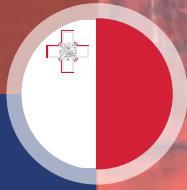
Therefore we are looking for interested companies, authorities or research institutes that would like to build up a network related to biofouling and corrosion. In two differently oriented boards we want to discuss at regular intervals about current developments and guidelines in biofouling and, of course, project results.

GET IN TOUCH!



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