



# SHIP AND NAUTICAL INDUSTRY

## Strategic projects in the PACA region

The Sea Innovation and Business Cluster intends to upgrade its regional naval industry in terms of technological innovation, economic development and services offered; all of this while ensuring efficiency.



### > MARVEST Maritime Virtual Reality and Simulator Technologies.

The MARVEST project consists in developing a new generation of physico-realist interactive software that provides, in real time, a faithful representation of highly realistic synthesis images and a reconstructed 3D sound environment.

These software components and materials are intended for virtual immersion rooms and for naval simulators

This project has been earmarked for the F.U.I. (interdepartmental fund.)

**Project leader**  
Optis

**Industrial partners**  
Eca, Eca Faros and Genesis

**Research partners**  
CLARTE association and ENIB – CERV laboratory

**Budget**  
4 040 K€ over 36 months

### > DEESSE Development of a hybrid diesel/electro solar maritime shuttle

The DEESE project concerns the development of a prototype of an « eco-compatible » maritime shuttle, using a hybrid diesel/ electro solar motorization, while offering the same performances as a classical motor-boat.

**Project leader**  
Mettle

**Industrial partners**  
Eca, DCNS Ingénierie, Moteurs Baudouin and Transmetal Industrie

**Research partner**  
Supméca

**Budget**  
4 800 K€ over 36 months  
Co-financed by the F.U.I. (interdepartmental fund).





► **ECOPAINT PACA**  
**Non-toxic coating with antifouling and drag reduction properties.**

The aim of the ECOPAINT project is to develop an innovative and effective product that respects the marine environment and enables the reduction of hydrodynamic drag. The method is based on multi-functional properties: reducing or eliminating organic solvents from coating through the elaboration of aqueous phase paint, inhibiting incrustation and development of marine fouling, and promoting stability of coating performances.

**Project leader**  
MAPIEM – USTV laboratory

**Industrial partners**  
DCNS and Blancolor

**Research partners**  
USTV and Ifremer

**Budget**  
2 000 K€ over 3 years.  
This project is co-financed by the FUI (interdepartmental fund)

► **U119C**

The U119C project is a development and production program of a high-tech recreational craft, « day-cruiser open », 13 meters long with an outboard motor; providing the possibility of offering small cruises, innovative by its avant-garde design, its planning hull, its high-tech components (carbon, teak, ...).

This all results in an «ultra light» boat, therefore less polluting, without sacrificing performance (excellent maneuverability, planning and beaching properties) and design.



**Project leader**  
UFO Boat shipyard

**Industrial partners**  
Iguaçu and Sicomin Composites

**Research partners**  
IPFM and EID

**Budget**  
500 K€ over 18 months



**In charge of themes**

Christophe AVELLAN  
Pôle Mer PACA  
avellan@polemerpaca.com  
+33 (0)4 94 03 89 73