

PROTOCOL for the PILOT EXPERIENCE MOL² (TRIESTE)

TITLE: MOL2 – Maritime On the Loop of Ocean Literacy

COORDINATOR: COSNAV ENGINEERING SRL

CONTACT:

Via del Coroneo 21, 34133 Trieste, Italy

Tel: 040.639176/639470

Fax: 040.633793

PARTNERS: Studio Bliznakoff (Trieste, Italy), Mare FVG (Monfalcone, Italy)

PROMOTED BY: [MATES](#) - Maritime Alliance for fostering the European Blue Economy through a Marine Technology Skilling Strategy

GOALS:

- To spread awareness on the benefits of the 3D Laser Scan for the optimization of the design cycle
- To introduce to Ocean Literacy

CONTENT:

- 3D Laser Scan: challenges of the design cycle, measurement's systems currently employed, transition from the real object to the virtual one, digitalization of the design cycle
- Ocean Literacy: fundamental principles, links with Maritime Industry, example of the implementation of Ocean Literacy within the design cycle thanks to new technologies

TARGET: Students of technical high schools, especially from 17 to 19 years old.

For schools:

In order to organize the Pilot Experience it is necessary to contact the principal to notify them of the initiative, and to gain the contacts of a teacher that can act as a referent.

A specialized technician is required to perform the 3D laser scans.

The Pilot Experience can take place in either a lab or a classroom.

In order to display the scans, it is necessary to have a laptop (with an adequate software*) and a projector.

* Recommended Software:

- Microsoft 3D Viewer
- PAINT 3D
- FREE CAD
- SketchUP

Expected benefits for the companies:

For the involved companies, MOL² is an opportunity to advertise their activities.

The Pilot Experience could also act as a bridge between the senior year students and companies, providing them with an occasion to meet and organize an internship.

Ocean Literacy:

It is necessary the presence of an expert to introduce the topic of Ocean Literacy, or, alternatively, a teacher could self-train themselves using material available online.

It is recommended to use the official UNESCO Toolkit: [Ocean Literacy for All](#)

The Toolkit is available in: English, French, Spanish, Portuguese, and Italian

Ocean Literacy themes have been linked with new technologies within Maritime Industry through examples based on real issues; for example, the treatment of ballast waters.

There are many resources available online, such as:

- [Troubled Waters](#): an interactive documentary realized by MARLISCO. It features different examples of sustainable environmental management on an international level, comparing different perspectives (industrials, activists, public and private initiatives etc...)
- [Make a Sea Change](#): examples of more sustainable actions in everyday life
- [Increasing Ocean Literacy](#): video about the basic principles of Ocean Literacy
- [Ocean Currents](#): visual representation of global oceanic currents – this could be useful for underlining the link between water basins.
- [Ocean Literacy Italia](#): Italian network for Ocean Literacy