

MOU2



Friday  
**9<sup>th</sup>**  
**JULY**  
 09:30 – 12:30  
 CEST



**EUSAIR INVESTMENT IN SKILLS AND EDUCATION:  
 WHICH ROADMAP FOR A MORE SUSTAINABLE BLUE  
 ECONOMY IN THE ADRIATIC-IONIAN REGION?**

# Blue Skills focusing on sustainable ship- and boat-building in the AI Region

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In cooperation with



## Diapositiva 1

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**MOU2**

Microsoft Office User; 01/07/2021



## ORGANIZATIONS:

**Department of Naval Architecture of the Faculty of Mechanical Engineering - University of Belgrade**

**and**

**Maritime Faculty Kotor - University of Montenegro**

Educational and research institutions.

My teachings are related to the ship design, ship structural design...

Integrated topics such as IMO goals for decarbonization, energy efficiency, ship emissions, MARPOL convention, etc.

Maritime Faculty Kotor is involved within the project BLUEWBC (Erasmus +): an introduction of blue economy context into several courses, education, obtaining a learning tools.



## OUTCOMES AND INSIGHTS TO PROMOTE SKILLING IN SHIPBUILDING AND BOATBUILDING - Current state (The case of Montenegro) -

- Shipyards dismissed. Boat repair yards and marinas existing.
- Cruiser ship sector + boat/yacht fleet increased significantly!  
In the areas high natural and cultural significance, where environmental protection is of utmost importance (Boka Bay)
- **Cruise ships:** Pollution. IMO conventions (Montenegro - a member state) are not quite mandatory and cannot be controlled easily.
- **Boats:** Emissions, waste.
- **Use of renewable energy: Prototype efforts** to build a boats and smaller passenger ships that can use solar panel technology within the Kotor Bay area. Need for circular economy!
- **National Maritime Strategy**

**Survey (of use of technologies) and penalties are issues!**



## OUTCOMES AND INSIGHTS TO PROMOTE SKILLING IN SHIPBUILDING AND BOATBUILDING - Skills -

Skills went from classical engineering/craftsmen towards tourism oriented.

Education and industry: Need to produce more high skill engineers that can cope with emerging innovations, regulations, renewable technologies.

Why would shipping industry take care about the blue economy? ... if they are not obliged?

**See IMO goal!**

Skills needed:

- To survey and monitor pollutants from ships (use of scrubbers, ballast system).
- An application of respective international regulations on ships/boats with regard to environment.
- **To build/repair ships/boats considering the environmental impact!**

**Skilled naval architects, mechanical/marine engineers updated with the knowledge about the use of new renewable tech./alternative fuels/efficiency of ships!**