



#### Summary

- Our Crew
- Objective
- State of the Art
- Project Management
- Marketing Analysis
- Ethics & Deontology
- Eco-efficacy measures for Sustainability
- Project Development
- Conclusion
- References & Bibliography

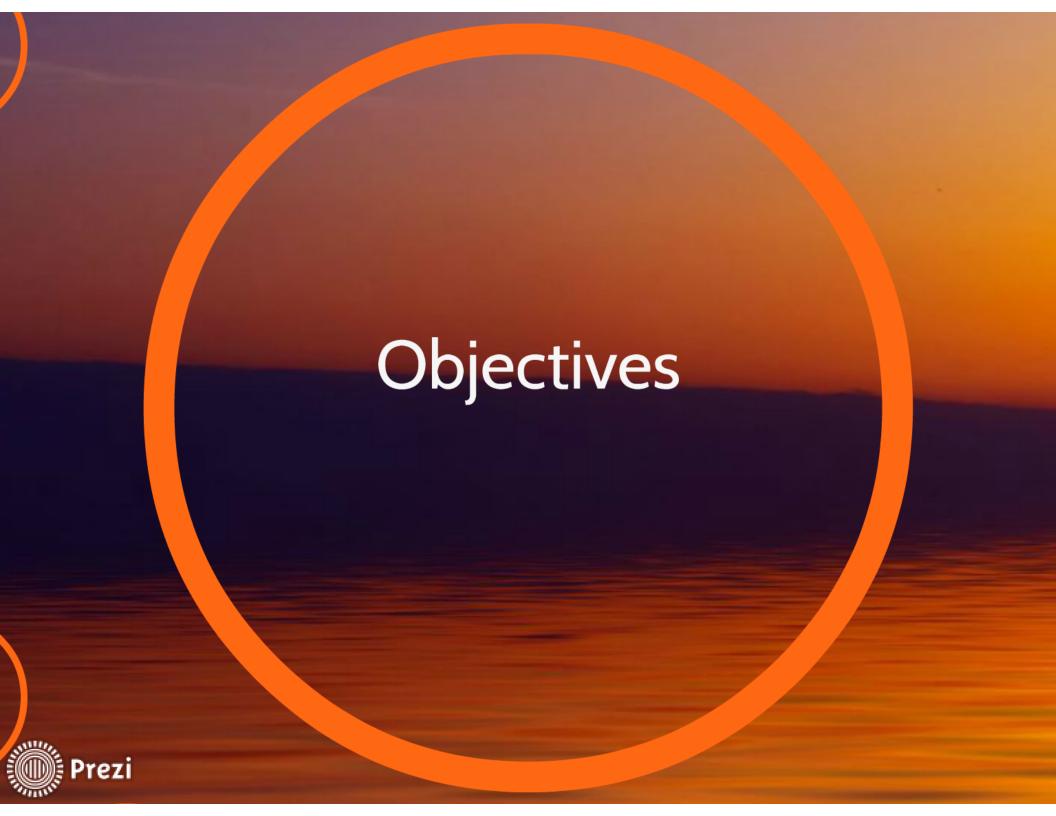


### Our Crew



- Roberto, Engineering Management
- Gizem, Mechanical Engineering
- Marc, Industrial Design
- · Jonny, Mechanical Engineering
- Imre, Electrical Engineering
- Thies, Industrial Engineering







Transportable for 4 people





Has to face the waves force to go offshore





Has to support the weather conditions once in operation





Will stay in a prior determined region





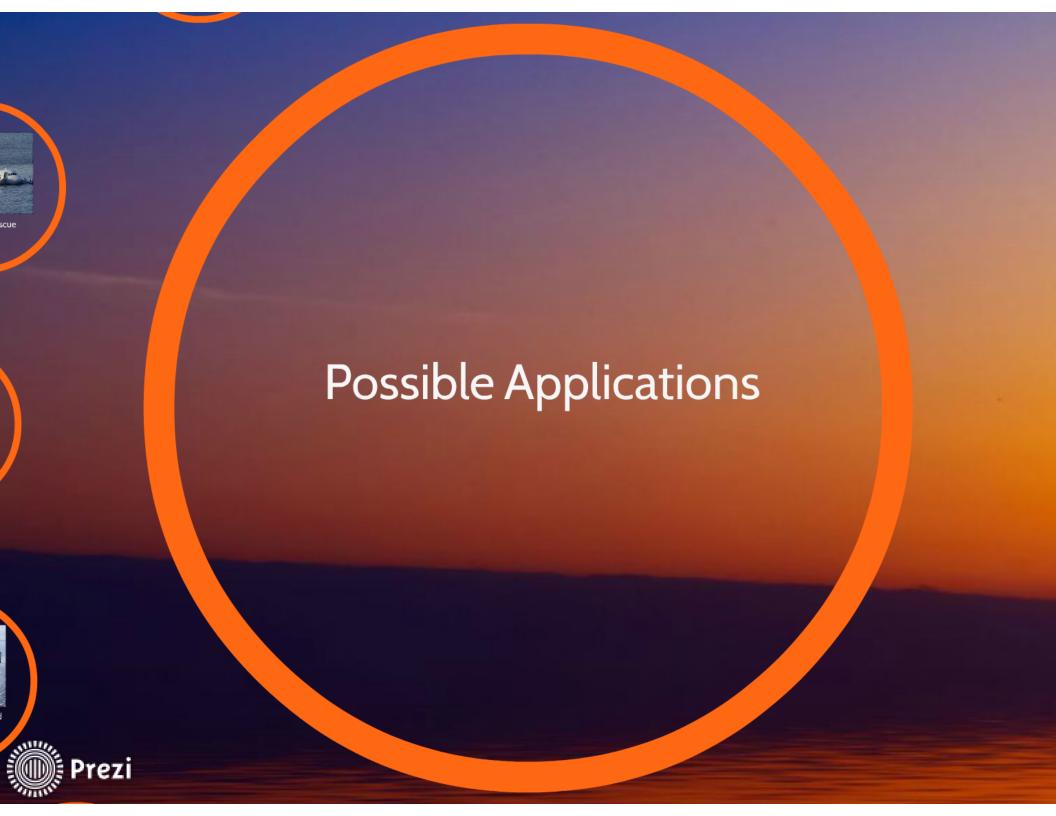
Wind and current sensors for optimal movement

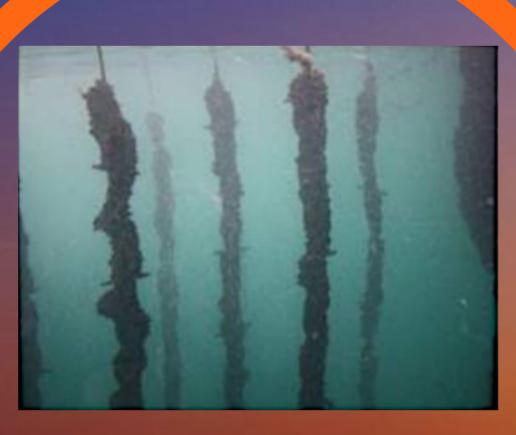




Energy supply for the boat







Control sea farms





Search and Rescue Missions





Study and analyze water conditions





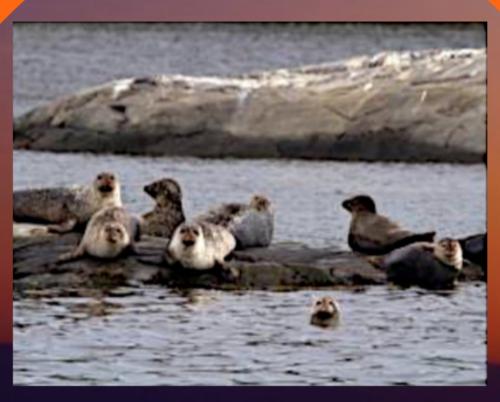
Offshore security for wind farms or oil rigs





Monitor piracy in dangerous regions





Study and monitor sea life



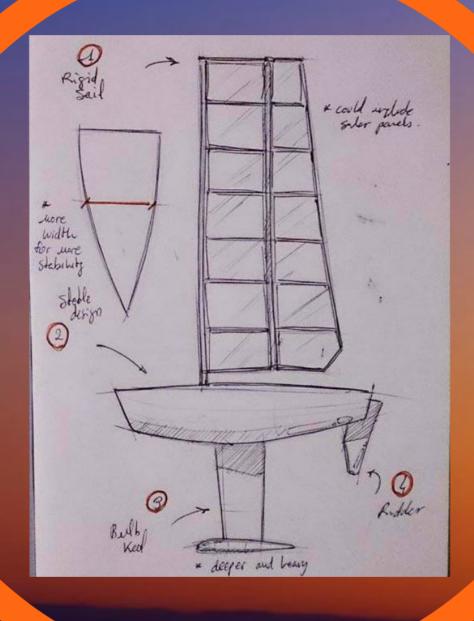
# State of the Art Components of our boat

- Hull
- Keel
- Rudder
- Mast
- Rigid Wing-Sail

# Comprehend Electrical Devices

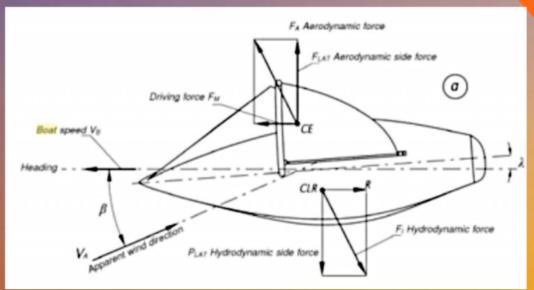
- Systems
- Wind sensor
- Batteries
- Solar panel



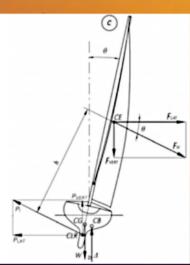




#### State of the Art



Aerodynamics Hydrodynamics Equilibrium





#### Project Management

- Scope
- Budgeting
- Risk
- People/Communication
- Stakeholder





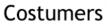
### Marketing

PEST ANALYSIS

Political: EU Maritime Growth Economic: R&D in Renewables

Social : Climate Change Technological : Marine/Robotic

Competitors











#### **SWOT Analysis**



#### Segmentation

- Geographic
- Characteristics of the company
- Way of procurement
- Criteria of usage





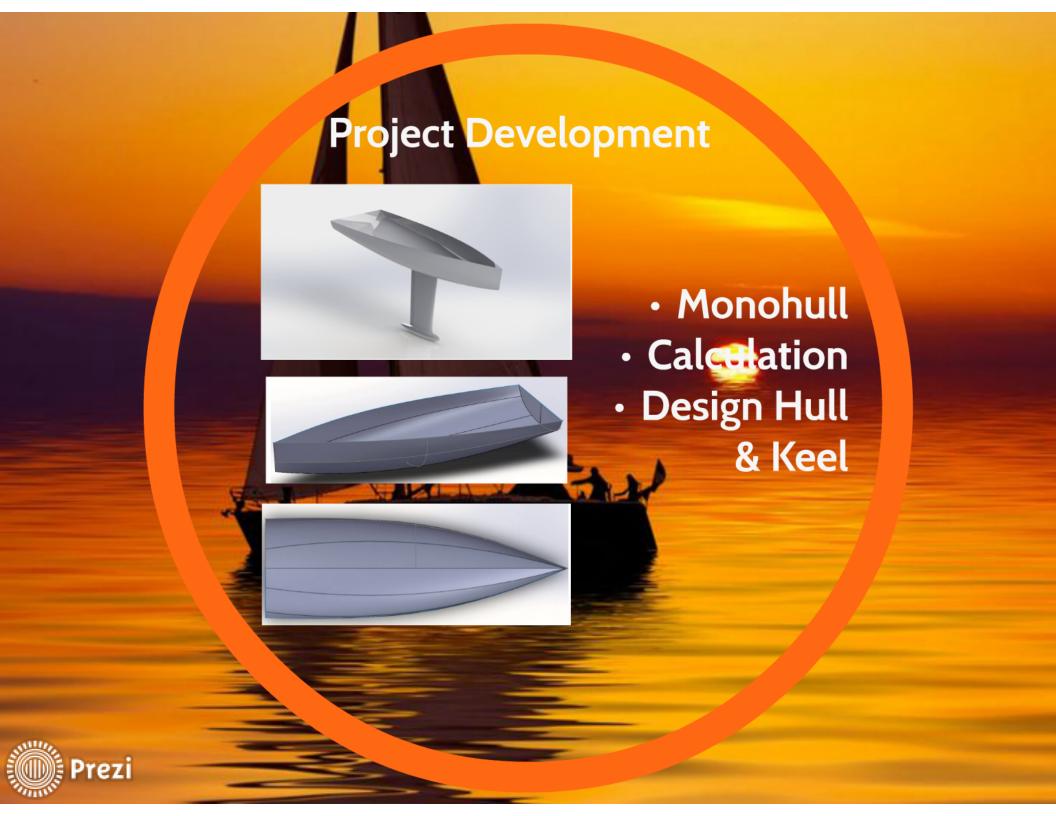




Life cycle analysis

- Raw material
- Design
- Manufacutre
- Distribution
- Use
- Disposal





## Project Development

First Measuring

