



The 1st Aegean Ro-boat Race

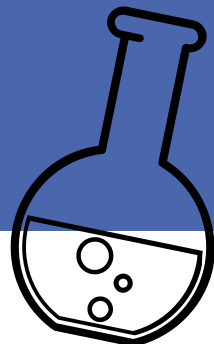
An autonomous boat competition
Syros, Greece on the 10th-12th of July 2023
<https://smartmove.aegean.gr/roboat-race/>

The 1st Aegean Ro-boat Race

- An international university level competition, challenging teams to design and develop innovative autonomous robotics systems that can perform at sea in real world coastal conditions.
- Topics to be judged include autonomous behavior, robotics, sensor fusion, boat design and overall innovation.
- Each team will present their project to a panel of experts in the areas of systems engineering and naval architecture.

Why a race?

To foster innovation,
while strengthening
ties between
academic
institutions and
industry



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AND SYSTEMS DESIGN ENGINEERING



MarineTraffic

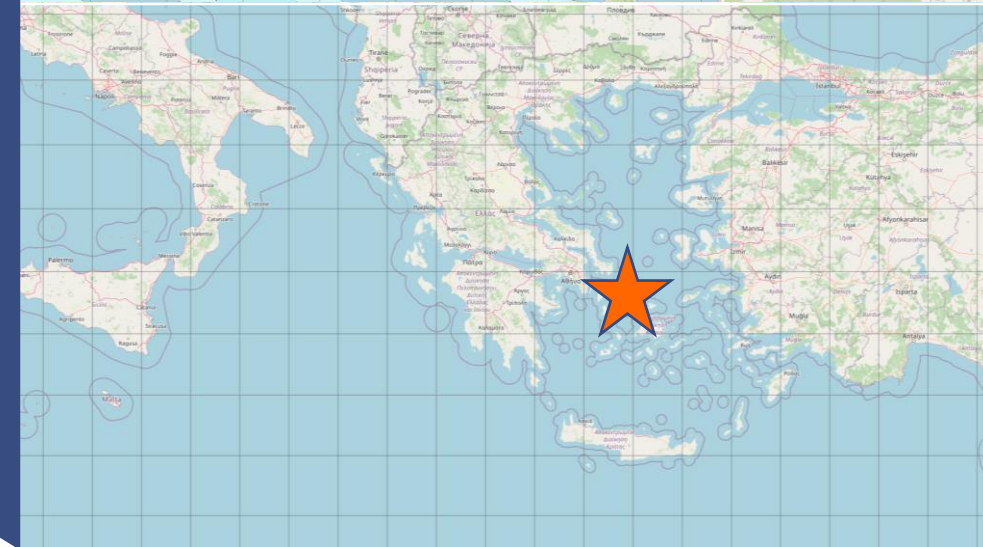
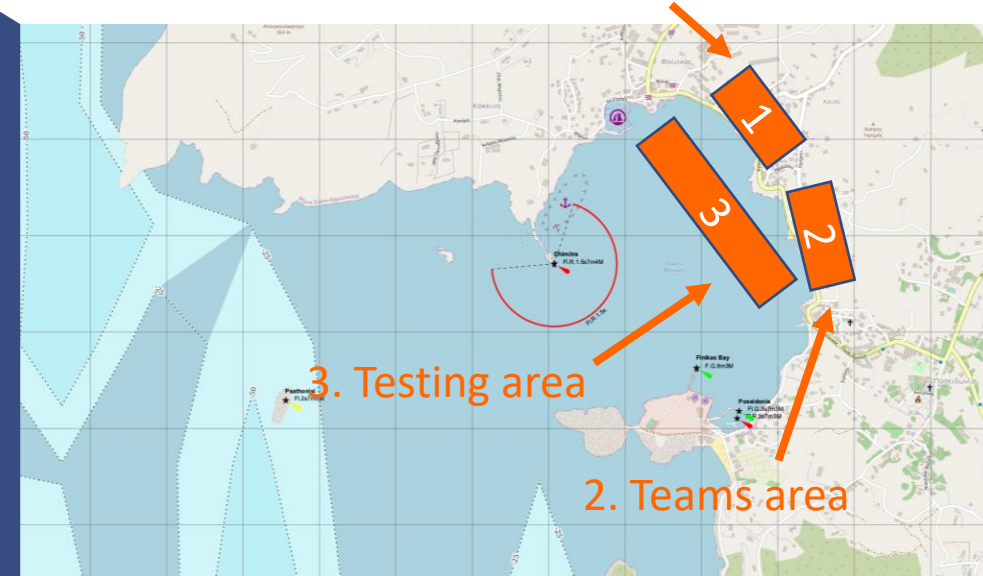
Vision

- more than simply a boat race.
 - It's is **a testing ground for innovation**
1. Train the next generation of maritime professionals
 2. Connect industry to academia
 3. An ideal place for technology-driven companies to achieve their next breakthrough

Location

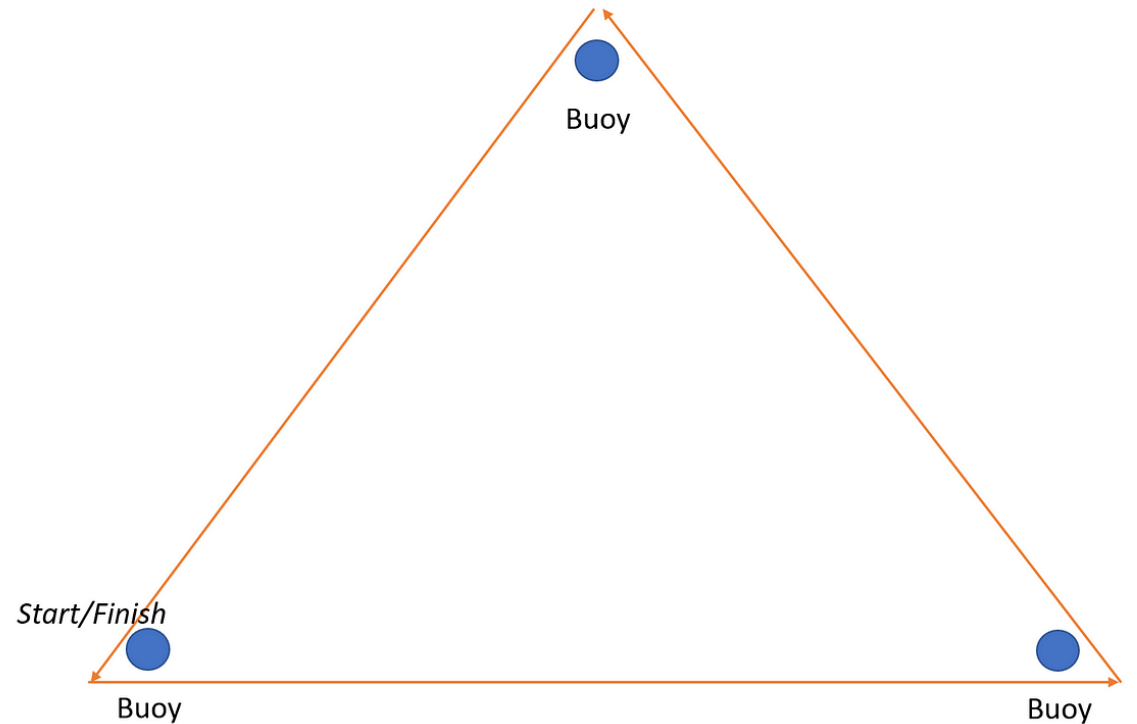
- The races will take place in Syros, Greece
- At the centre of the Aegean in the Mediterranean Sea
- It was created as a testing ground for experimenting with new technologies on the water by the University of the Aegean, Smart Move Laboratory

1. Observer/ Exhibition area



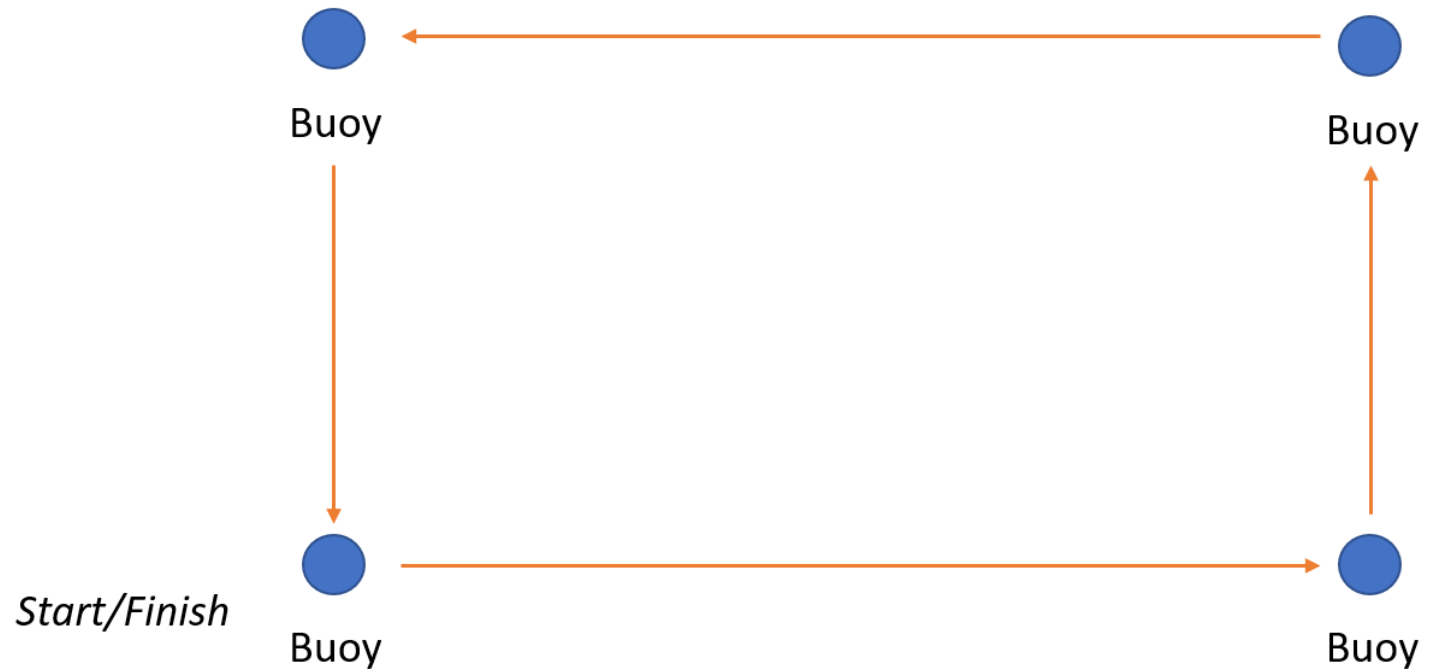
Race 1: The Speed Race

- The aim of this race is to cross the finish line first.
- **Description:** The boats will sail between two buoys (Start/Finish Line) and then sail around two other buoys before returning to the Start/Finish Line.
- **Scoring:** 10 pts max. The first to finish scores 10 pts, the second 9 pts, etc.



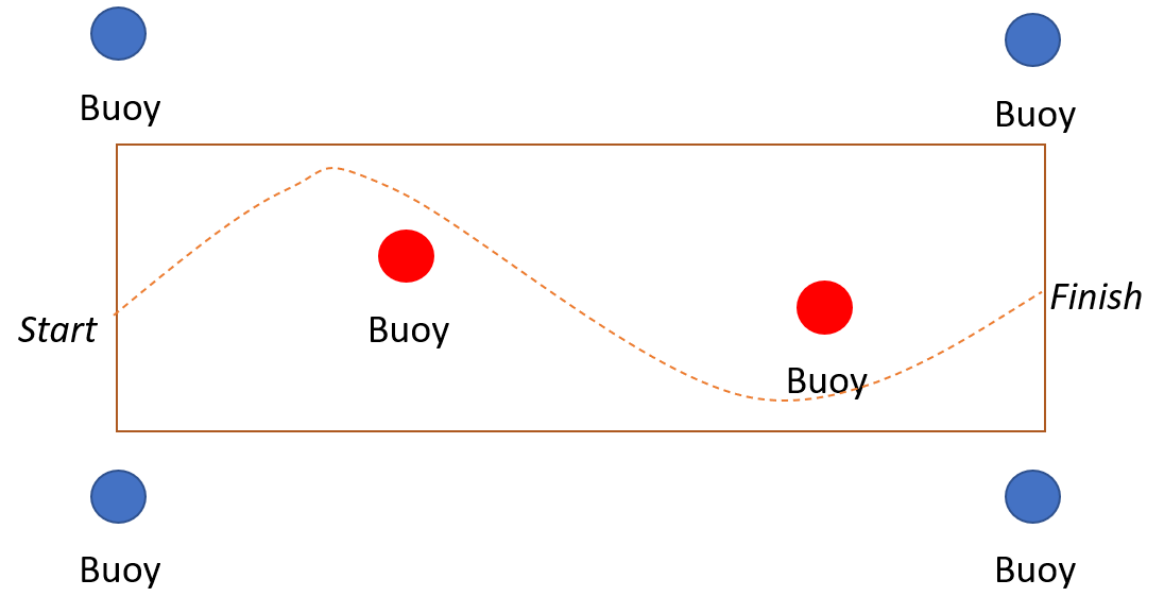
Race 2: Endurance/Last one standing

- To demonstrate the boat's durability and capability to go the distance
- **Description:** The boats will sail around the 4 buoys (passing within 10 m inside of buoy is OK) for up to as long as they can last!
- **Scoring:** 10 ptsmax. Last one standing gets most points.



Race 3: Dont Crash (Collision Avoidance)

- Demonstrate a successful autonomous collision avoidance system
- **Description:** The boat will start between two buoys and will sail autonomously to the finish line. Amongst the start and finish line there will be random buoys that should be avoided.
- Scoring: 20 pts max for quickest to finish line, second 19pts etc..
- 2 pts removed for each collision.

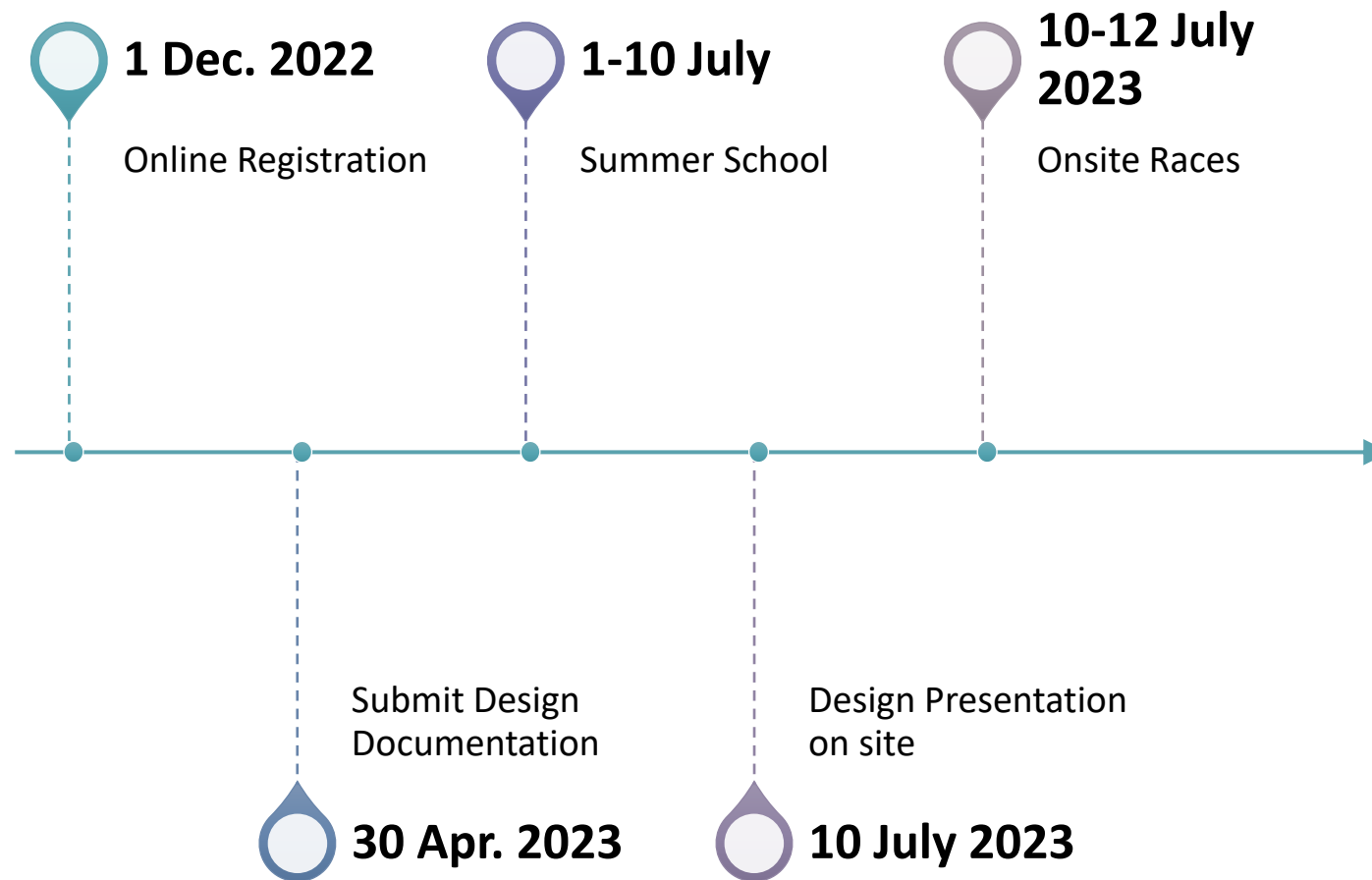


General Rules

- Design and build your own boat.
- The boats must be completely autonomous.
- Boats must be under 2.5 meters length.
- Penalty for collisions (for each collision -1 pt)



Competition Timeline

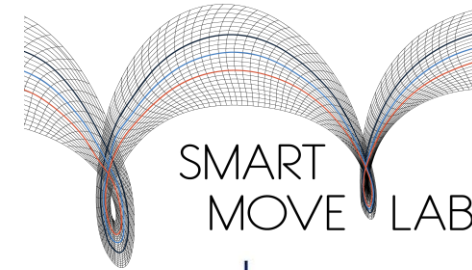


Organizers



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SMART
MOVE LAB

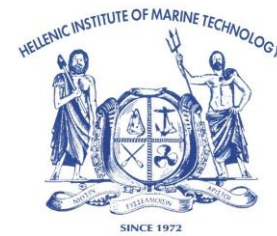


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Supporters



IEEE Oceanic
Engineering Society



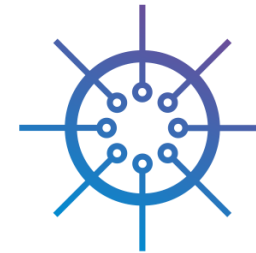
H.I.M.T.
HELLENIC INSTITUTE
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Research Projects Involved



INFORE Interactive Extreme-Scale
Analytics and Forecasting



VESSELAI
maritime digitalisation

Updated: Sept '22



**Funded by
the European Union**

Sponsorships

Platinum Sponsors: 1500 euro

- Logo presence: web, main race and presentations, Event Handbook and Post event newsletter,
- Presence of company roll up/flag in race and in general events (X to provide Banners), Whole event is sponsored by X (X can provide a banner there as well as across general event).
- Stand/booth/banners set up on site during race.
- Demonstration space

Gold Sponsors: 1000 euro

- Logo presence: web and main race, Event Handbook and Post event newsletter
- Presence of company roll up/flags in 2-3 sessions of interest each day (X to provide Banners)
- Breaks and Night Dinners are Sponsored by X (X can provide a banner there as well as across general event)

Silver Sponsors: 500 euro

- Logo presence: Web, main race and presentations, Event Handbook and Post event newsletter