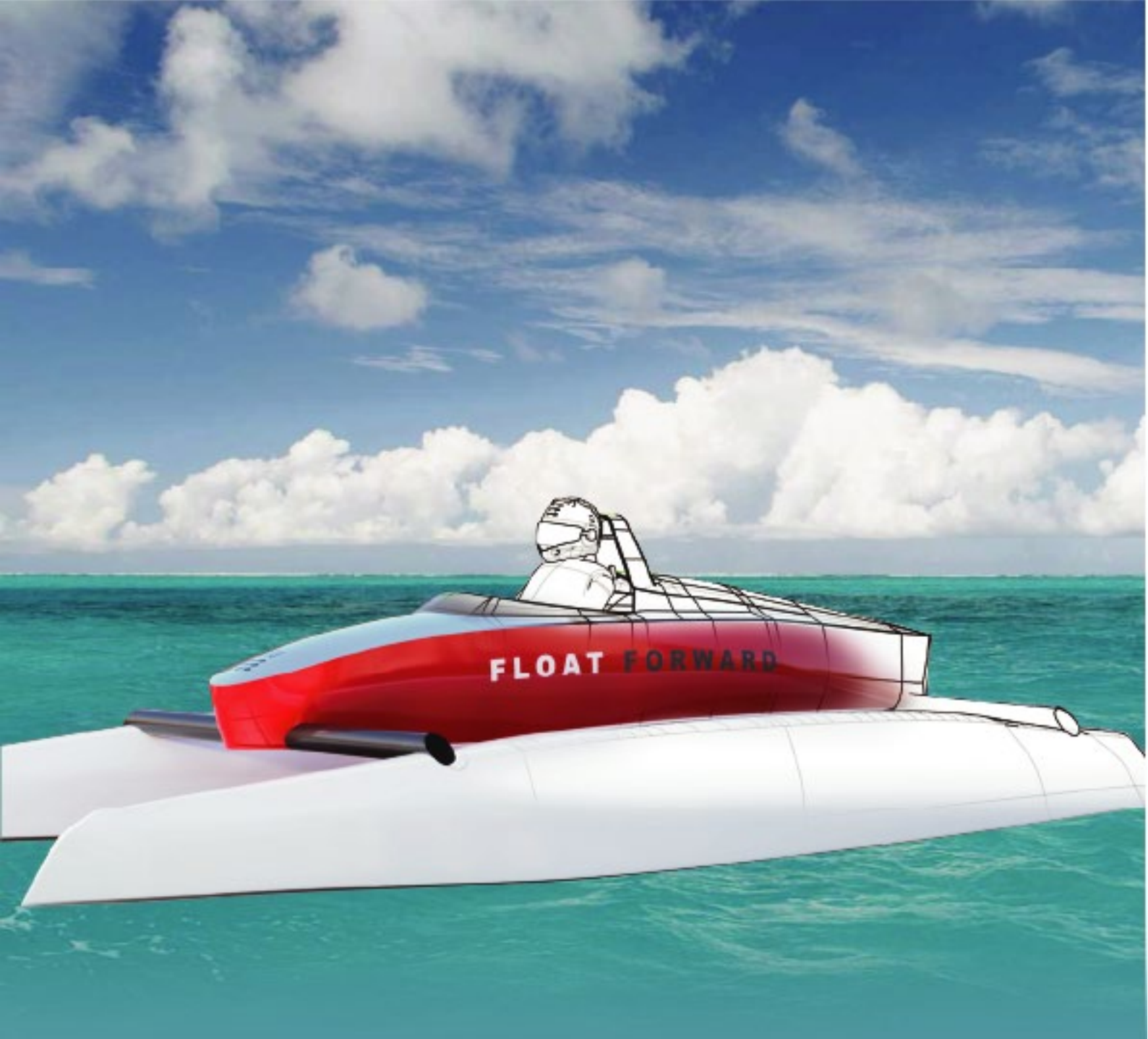
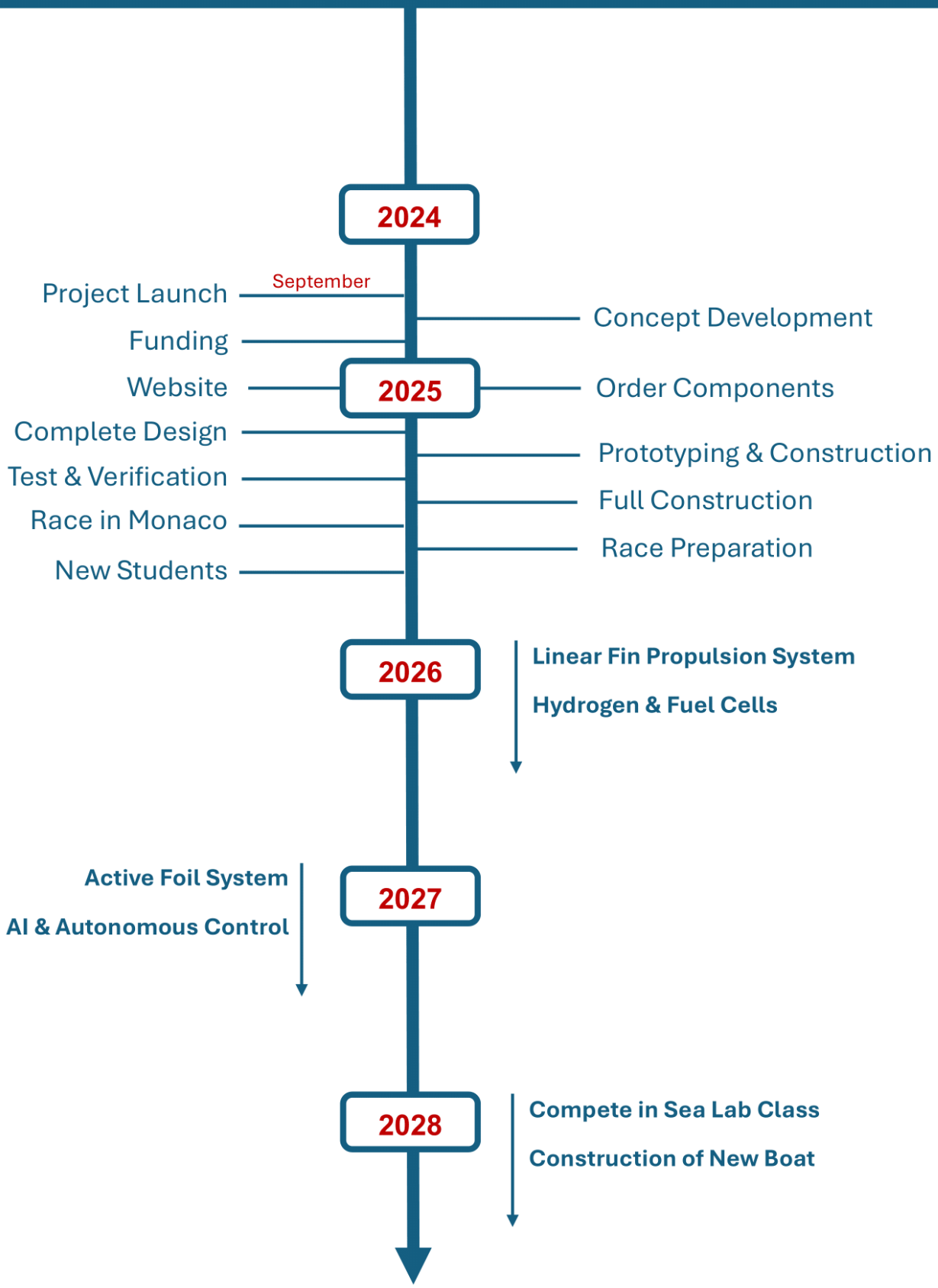


MARITIME INNOVATION

SUPPORT MARITIME RESEARCH AT DTU

11° MONACO ENERGY BOAT CHALLENGE | DTU FLOAT FORWARD

ROADMAP


2024
Project Launch
September
Funding
Website
Concept Development
2025
Order Components
Complete Design
Prototyping & Construction
Test & Verification
Full Construction
Race in Monaco
Race Preparation
New Students
2026
Linear Fin Propulsion System
Hydrogen & Fuel Cells
Active Foil System
AI & Autonomous Control
2027
2028
Compete in Sea Lab Class
Construction of New Boat

Who are we?

The Float Forward DTU team was initiated by a group of 10 professors with a passion for maritime engineering. Research had shown that a new linear fin propulsion system, would prove a great alternative to conventional propellors with a hydrodynamic efficiency of 90%.

With a mission to compete in the Monaco Energy Boat Challenge 2025, a student team has been formed. Competing in the energy class, we will have the opportunity to show the world what our technologies can do in the real world.

We are on a mission to engineer a greener future. The linear fin propulsion system just one of many projects, that Float Forward DTU will undertake in the coming years.

This initiative is launched with a common interest to engineer a greener future, by converting to sustainable energy sources like electric and hydrogen.

In collaboration with the famous DTU Roadrunner team, we will be able to learn from each other, when we investigate the development of hydrogen engines and fuel cells.

With a team of 36 students and 10 professors, we are happy to finally have a team that can spark interest into the maritime industry.

By partnering with companies who share our vision, we can accelerate the development of these innovations, transforming how the maritime industry operates towards a sustainable future.

RACING | TECH TALKS | JOB FORUM | YCM E-DOCK | CONFERENCES | PADDOCKS

CONSTRUCTION

We have drafted up a concept using 3D design software. This conceptualization serves as the cornerstone of our vision

Our core objective is to establish a robust foundation that seamlessly integrates state-of-the-art propulsion technologies and alternative energy storage systems like hydrogen and fuel cells.

This year, our focus is on constructing a durable and modular hull. This modular approach is critical as it enables the swift interchange of various technological innovations without the necessity of reconstructing the hull for each new advancement. It will allow us to focus more of our resources on researching and integrating the technologies of the future in the coming years.

The primary objective for this year, will therefore be preparing a solid foundation for innovation in the coming years.

We are committed to clinching the innovation prize, with a dedicated team already advancing the linear fin propulsion concept. This novel technology is projected to deliver a 13% increase in efficiency compared to traditional propellers. Although it won't be featured in this year's catamaran, the development of a functional prototype will position us as formidable contenders for the innovation prize, underscoring our commitment to redefining the paradigms of marine propulsion.

Marketing & Reach

By partnering with us, sponsors will benefit from our growing social media presence and participation in a competition that reaches over 7 million people globally.

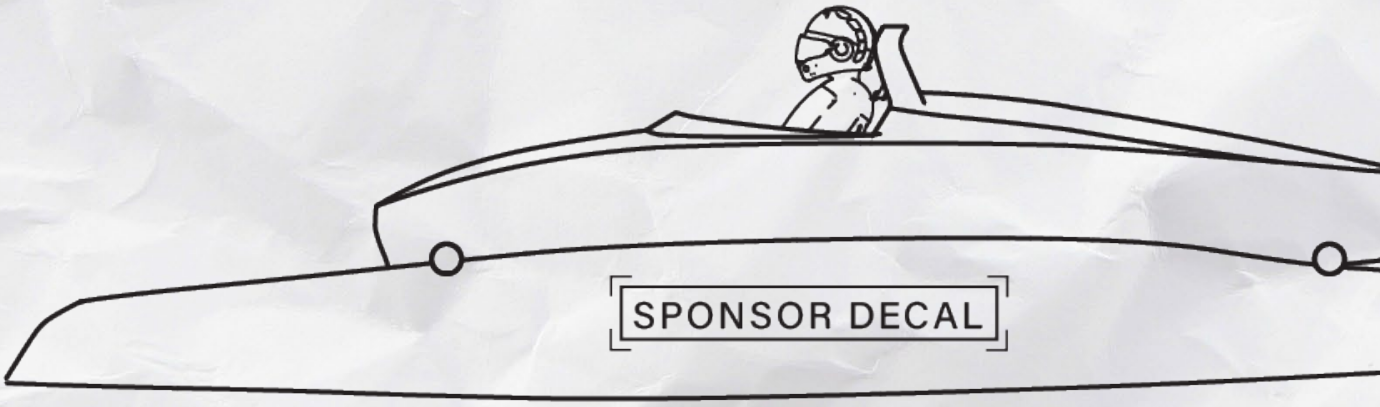
With 25 different nationalities involved, our project engages a diverse community of aspiring engineers, industry professionals, and environmentally conscious followers.

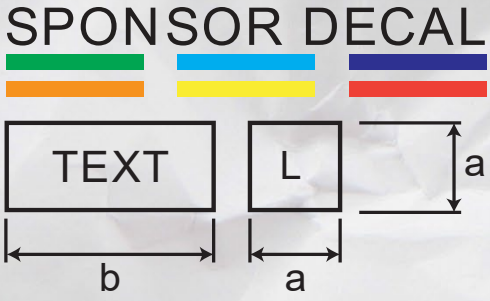
Sponsors will receive significant brand exposure through our regular updates, behind-the-scenes content, and event presence, reaching a targeted international audience.

This partnership amplifies your commitment to innovation and sustainability while offering a unique opportunity to align with the next generation of forward-thinking engineers.

As a token of our appreciation, we'll feature your company's branding prominently on our boat. The size of your advertising spot will correlate with your contribution. Additionally, our top sponsors will enjoy prime placement on all our merchandise, further amplifying your brand's reach.

Let's work together to shape the future of maritime transport. With your support, we can lead the way toward a sustainable and innovative industry.





ACUTE SHORTAGE OF MARITIME ENGINEERS

The maritime industry is currently facing a critical shortage of skilled engineers, a challenge highlighted by DTU's recent insights*. Many students outside the maritime sphere remain unengaged with this field, often needing a compelling reason to consider a maritime-focused academic path.

At Float Forward DTU, our participation in the Monaco Energy Boat Challenge has already ignited significant interest among students in maritime engineering. By supporting our team, sponsors have a unique opportunity to catalyze this burgeoning interest into a sustained engagement. Your funding will enable us to continue making impactful strides at DTU, drawing more students, faculty, and industry attention to this vital field. Together, we can help secure the future of the maritime industry by inspiring and training the next generation of engineers.

* dtu.dk/english/news/DTU and MARTEC create a new joint maritime engineering programme.

ABOUT THE COMPETITION

The Monaco Energy Boat Challenge is a prestigious annual event that brings together the brightest minds in maritime innovation and sustainability. Set against the stunning backdrop of Monaco, this competition features cutting-edge technology for boats designed to redefine the future of marine transport.

Participants from around the globe, including universities, startups, and established maritime companies, come together to showcase their pioneering technologies in energy efficiency and renewable energy solutions. The challenge is about pushing the boundaries of what's possible in sustainable maritime transport.

This event attracts industry leaders, government officials, and media from around the world, providing a unique opportunity for sponsors and investors to engage with key stakeholders in the maritime sector. With over 7 million viewers globally and extensive media coverage, your brand will gain significant visibility and recognition as a champion of sustainability.

By supporting the Monaco Energy Boat Challenge, you align your brand with innovation and environmental stewardship, positioning yourself as a leader in the transition to a greener future. Join us in this exciting journey toward a sustainable maritime industry!