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WHAT WE DO

Core aims, micro-vessel capabilities, overall mission

OSHEN'S STORY

Our story, successes, interaction with industry

PROGRESS + DATA COLLECTED

Data collected so far, microvessel capabilities

FUTURE PLANS

Compatible sensors / data types in the future, pilot areas

QUESTIONS

Any questions + what we're keen to learn from the audience

CONTENTS



OSHEN'S STORY

From hand-fiberglassing in a shed, world record ambitions, using a sailboat in North Wales as a workshop, to BBC coverage, Oshen's experienced a rapid journey.



THE MICROTRANSAT



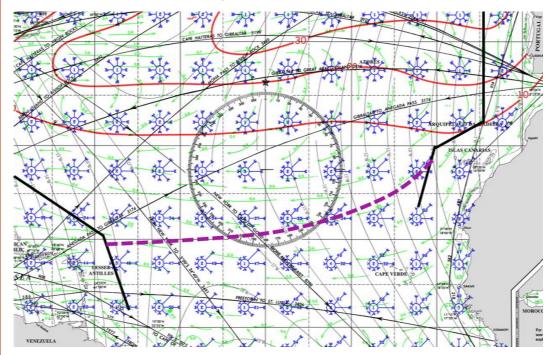
VESSELS <2m LENGTH

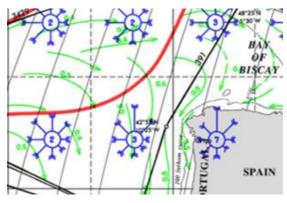
FULLY AUTONOMOUS

25 nm FINISH LINE NEVER BEEN ACHIEVED

NEEDED OCEAN DATA

Pilot charts were the only intuitive to use option. There was just one problem: the data wasn't accurate enough.

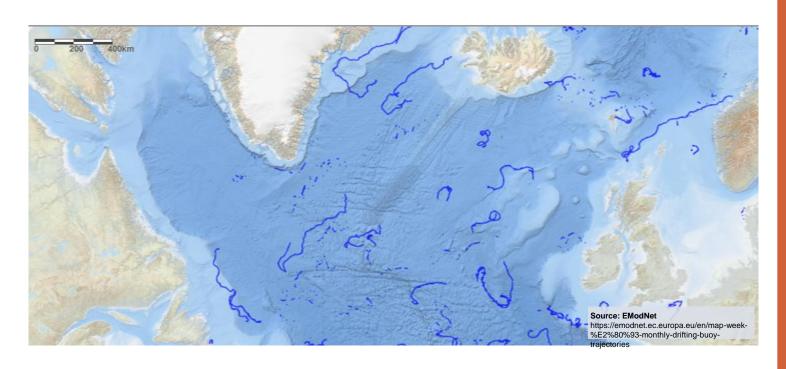




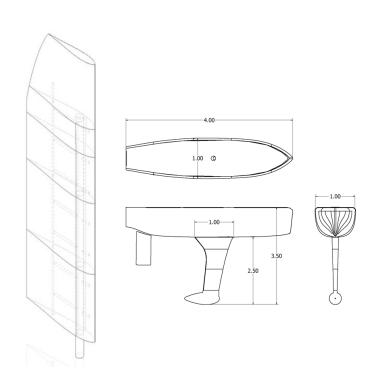
WHERE DOES LIVE OCEAN DATA COME FROM?

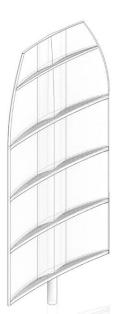


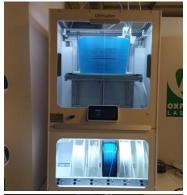
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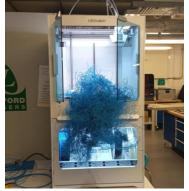


DESIGN & PROTOTYPE













TESTING AT SEA - AFFORDABLE METHODS







COMMERCIAL

- European Space Agency grant
- DEFRA feasibility study contract awarded
- Pilot schemes for 2024 in discussion















NNOVATION

Meet the young entrepreneurs making waves

The winners of this year's Innovate UK awards have set their sights on ocean data collection and sports injury recovery

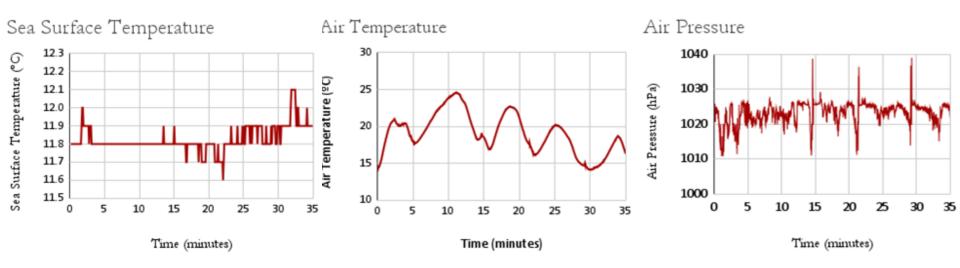


IN THE NEWS

- BBC news: "A self-sailing robot that can help predict the weather"
- **The Guardian:** "Their craft will revolutionise ocean monitoring of temperatures, marine wildlife and more"
- The Times: "The young entrepreneurs making waves ... set their sights on ocean data collection"



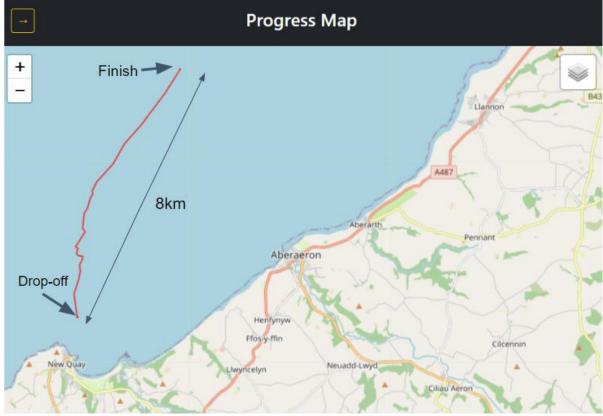
METOCEAN DATA - MAY 2023, IRISH SEA



SEA TRIALS







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METOCEAN

SST, Pressure, Wind, Waves, Currents



ACOUSTICS

Cetacean Monitoring, Underwater Threats



VISUAL

Illegal Fishing, Biodiversity Monitoring, Port Security

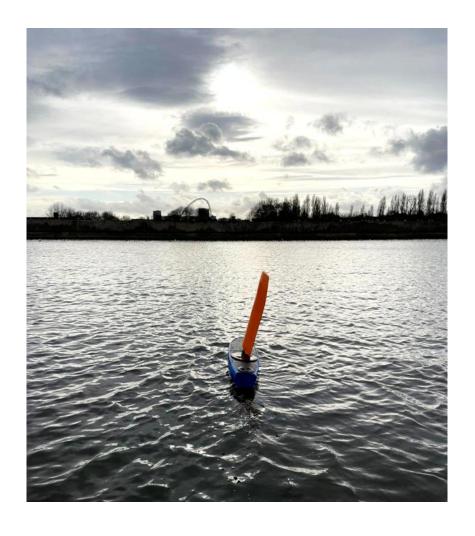


Note: Low power budget constrains the exact sensor type.



COMMUNICATIONS LINK

Relay to the surface for UAVs/ ROV communications



FUTURE PROJECTS

- Data collection trial in Bay of Biscay to test out improved limited area forecast
- ➤ Manufacture fleet of 10
- > Atlantic crossing microtransat attempt
- Pilot projects for non-weather applications

THANK YOU

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