



AEROSUB

Automated Inspection Robots for Surface, Aerial and Underwater Substructures



From: 1 December 2024
Until: 30 November 2028



Partners: 16
Countries: 9



Budget: 12 M
Grant: 10 M

CONSORTIUM



ABOUT THE PROJECT

AEROSUB is dedicated to pioneering **robotic solutions** tailored to different **wind energy operating scenarios**, including both fixed and floating offshore wind farms. The project aims to drive innovations in operation and maintenance (O&M) procedures, enhancing the **competitiveness** and **sustainability** of **renewable energy production**.

KEY OBJECTIVES



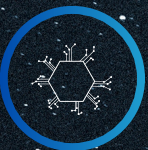
SMARTER ROBOTICS

Demonstrate that unmanned robots can boost offshore wind maintenance by 40% and cut downtime by 60%.



MARKET UPTAKE

Promote robotics in offshore wind maintenance through certification, training, and standardisation.



AI-DRIVEN SYSTEMS

Develop AI-powered aerial, surface, and underwater robotic systems for cost-effective, scalable maintenance.



SAFETY & ACCESSIBILITY

Improve site access and cut worker risk to achieve zero fatalities in offshore maintenance by 2030.



DIGITAL TWIN & AI

Use digital twins to monitor offshore wind remotely, cutting costs by 40% and easing staff workload by 80%.



ENVIRONMENTAL IMPACT

Reduce O&M emissions, support marine monitoring, and reduce electricity costs by 2.5%.

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the European Union

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