



WELCOME ADDRESS

**Welcome to our first MAREWIND newsletter.
One of the many more to come!**

The MAREWIND is a research project funded by the European Union's Horizon 2020 research and innovation programme. It has a budget of €7,9 million with €6,7 million EU contribution. The project has officially started on 1 December 2020 and will be running for 4 years until 31 November 2024.

The MAREWIND provides vital solutions to help building a next generation of large offshore wind energy power generators. It will solve the current challenges related to materials, coatings and multi-material architectural performance.

The latest updates for the past months:

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WHAT IS MAREWIND PROJECT ABOUT?

With the combined forces of key-players in the current value chain of wind energy and offshore structures, the MAREWIND project covers a set of ambitious targets focused on:

- enhancing corrosion protection systems and durability,
- effective and durable antifouling solutions without using biocides,
- erosion protection and mechanical reinforcement of wind blades,
- predictive modelling and monitoring,
- increasing recyclability.

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MEET THE CONSORTIUM

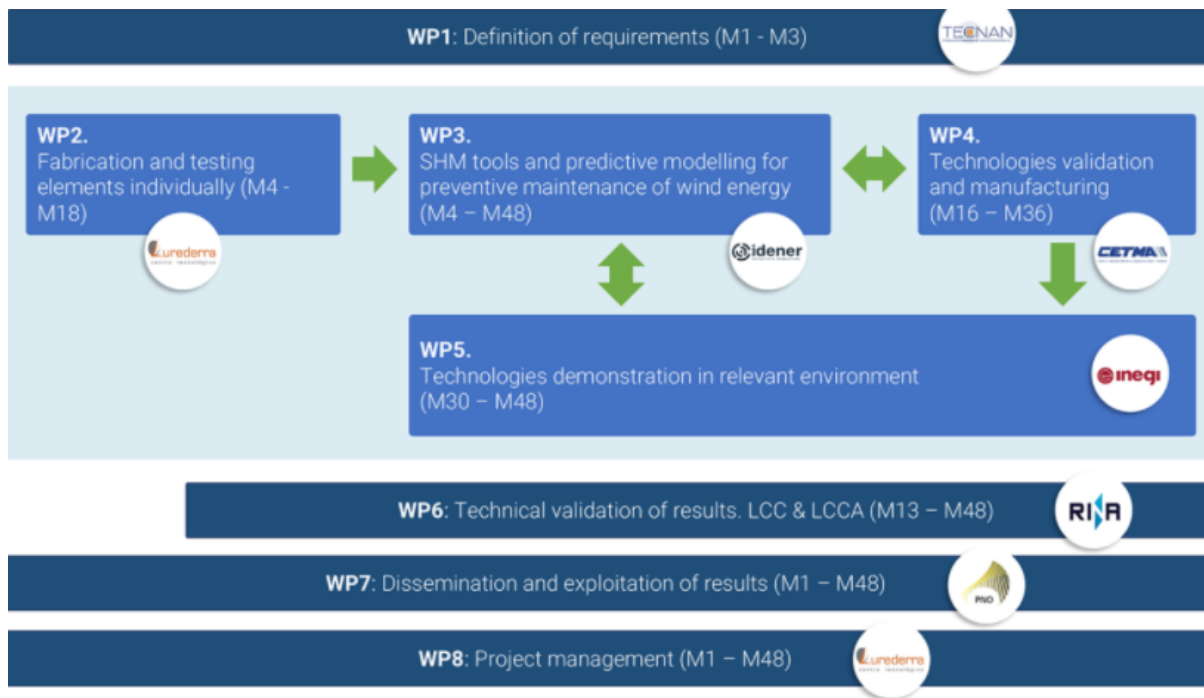
The project is run by a consortium of 16 partners from 7 European countries. The partners are representing leading business, technological and research organizations, and institutions across the Europe. The project coordinator Lurederra Technology Centre (Spain) will oversee the project's implementation plan of 9 work packages for duration of 4 years.



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OVERALL STRUCTURE OF THE PROJECT WORK

MAREWIND's implementation plan has 8 work packages. The work is divided between the project partners, representing leading business, technological and research organizations, and institutions across the Europe.



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PROJECT PROGRESS SO FAR



Officially launched

On 13-14 January 2021, with a 2-day online kick-off meeting, the project was officially launched, and the implementation work has begun. [store. Read more »](#)



Six months progress

On 9 June 2021, the MAREWIND consortium gathered to discuss the project status and progress since its official launch in December 2020. [store. Read more »](#)

IDENTIFYING THE REQUIREMENTS & DEMO SITES

During the first 3 months of the beginning of the project TECNAN along with the other partners completed the very first part of the work plan. ***WP1 Defining the requirements*** provides an overview of the characteristics of new materials and monitoring procedures. A risk mitigation plan was also created for the project lifespan. In addition, the consortium also prepared a roadmap for the implementation of all demonstration sites, as well as identified the conditions and required equipment for each of them.



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FABRICATION AND TESTING ELEMENTS

The second part of the MAREWIND work plan ***WP2 Fabrication and testing elements individually*** has started in March 2021 and is led by Lurederra. Within the scope of work is to formulate and optimize at a lab-scale different material. The consortium will improve corrosion protection, fouling prevention, blade's coating protection, blade's composites optimisation, recycling and concrete enhancement. The partners involved in this WP will also oversee the synthesis and selection of new concrete materials and testing/aging at lab scale. The task is still on going and will be active until M18, May 2022.

TOWER FLANGES (out side)

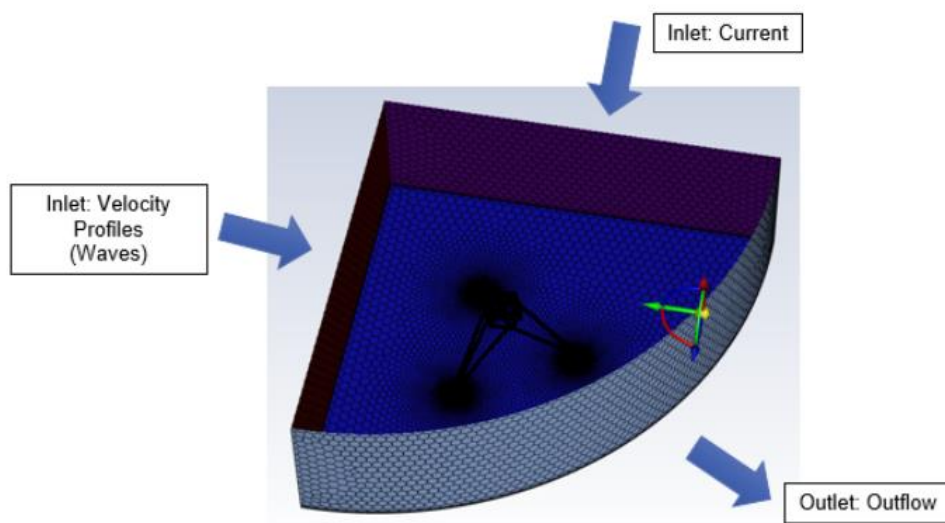
Material:
Stell JRS375



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PREDICTIVE TOOLS FOR PREVENTIVE MAINTENANCE OF WIND ENERGY

As of April 2021, the MAREWIND consortium has started working on ***WP3 predictive modelling for preventive maintenance of wind energy***. This part of the work plan focuses on the development of technologies for monitoring the structural health status of wind offshore facilities. It also develops mathematical models aimed to representing different key aspects related to the durability and maintenance of offshore structures and materials. During the first months, the involved partners led by IDENER have set the bases for the future work.



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