WINDFIELD

LIDAR SOLUTION TO REAL-TIME WIND MEASURING

The object of the WINDFIELD project is to design, develop and test the demonstrator of an innovative LiDAR solution to measuring wind in real time.

Current technology solutions are unsatisfactory for remotely and accurately measuring wind in real time and in any weather conditions using on-board systems.

The LiDAR systems available on today's market are heavy, cumbersome and costly wind-monitoring systems or aerosols for fixed applications such as onshore and offshore wind turbines and also airports.

In contrast to these mission-specific LiDAR systems, which require latency for monitoring the data collected, the solution proposed as part of the WINDFIELD project is a function-based LiDAR for a real-time navigational aid that responds to the real-time availability constraints imposed by the measuring, compactness and weight of an on-board system.

This innovative solution opens up a field of application that is totally new and offers the possibility of mapping wind fields in real time on board craft such as ocean-racing and leisure yachts or for military aeronautical applications (aircraft carriers and combat helicopters) and of making sensitive sites secure.

The WINFIELD project is also recognised by the Images&Réseaux cluster.

Partners

Companies

SensUp, Cesson Sévigné [Project Developer]
Mer Agitée, La Forêt-Fouesnant

Research center

IMT Atlantique Bretagne-Pays de la Loire, Brest

Funder

- Conseil regional de Bretagne (FEDER)

Labelisation

17/06/2016

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870 K€