

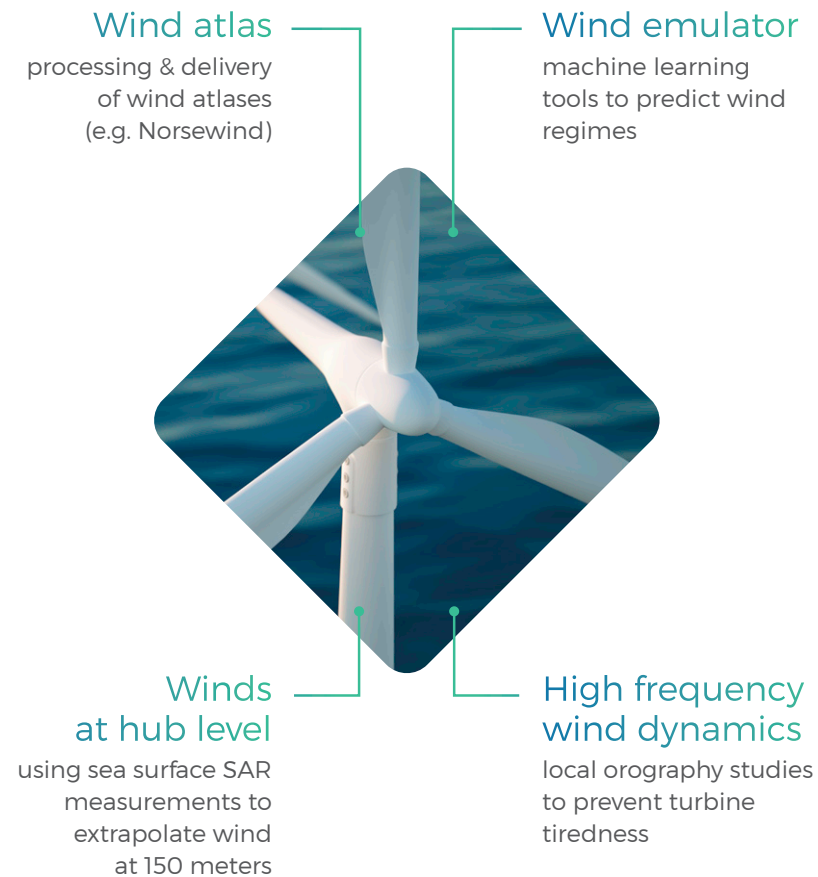


INTEGRATED SOLUTION for Offshore Wind & Ocean Assessment

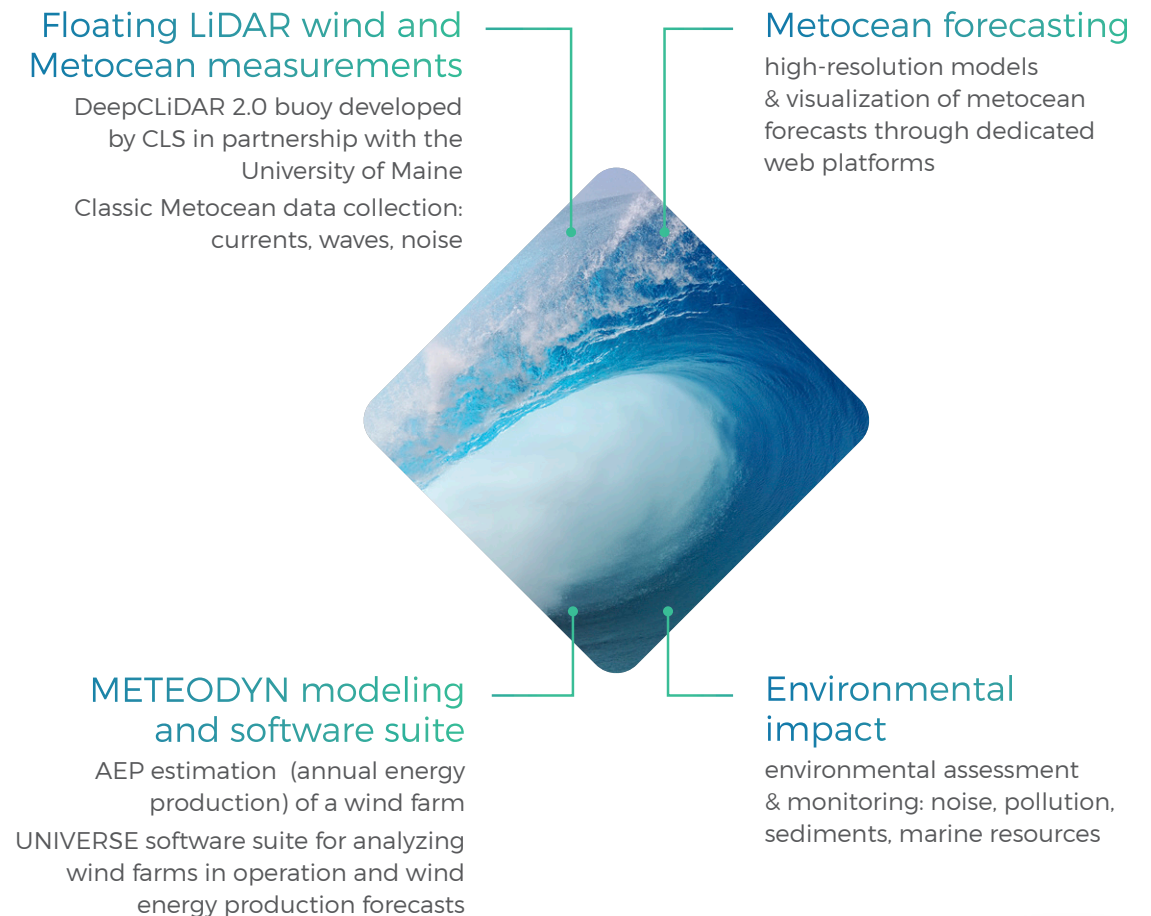


AN INTEGRATED SOLUTION FOR OFFSHORE WIND & OCEAN ASSESSMENT

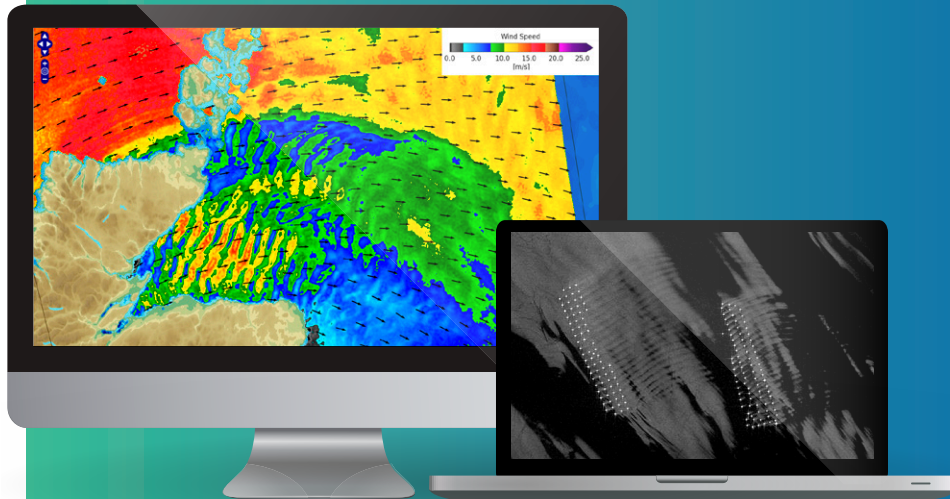
SARWind: Wind Assessment derived from SAR satellites



Ocean Assessment from multiple data sources



At **CLS**, we measure the invisible: the wind, its direction, its strength, all in very high resolution.



We merge huge amounts of data to make it intelligible and directly usable.

Synthetic Aperture Radar (SAR) satellite imagery, combined with in-situ data, LiDAR, and models, guarantees a fine-grained assessment of wind potential.

OUR UNIQUE EXPERTISE for offshore wind



MULTI-SOURCE DATA

Satellite imagery SAR
(Synthetic Aperture Radar)

LiDAR

Metocean data
collection systems

Acoustic sensors



ANALYSIS & STUDIES

Extrapolation of wind
to hub height from
combining
LiDAR/SAR/Atmospheric
Models



MODELING

High resolution models:
wave, current, atmospheric



INSTALLATION

In-situ measurement
campaigns



CLS

CLS (Collecte Localisation Satellites) is a worldwide company and has been a pioneer provider of monitoring and surveillance solutions for the Earth since 1986.

Our mission is to provide innovative space-based solutions to understand, protect our planet and to manage its resources sustainably.

25 years
of experience
in offshore
projects

10 years
of expertise with
ESA (European
Space Agency)
calibrating
Sentinel-1
satellites

30 years
of expertise
in spatial
and in-situ
oceanography



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