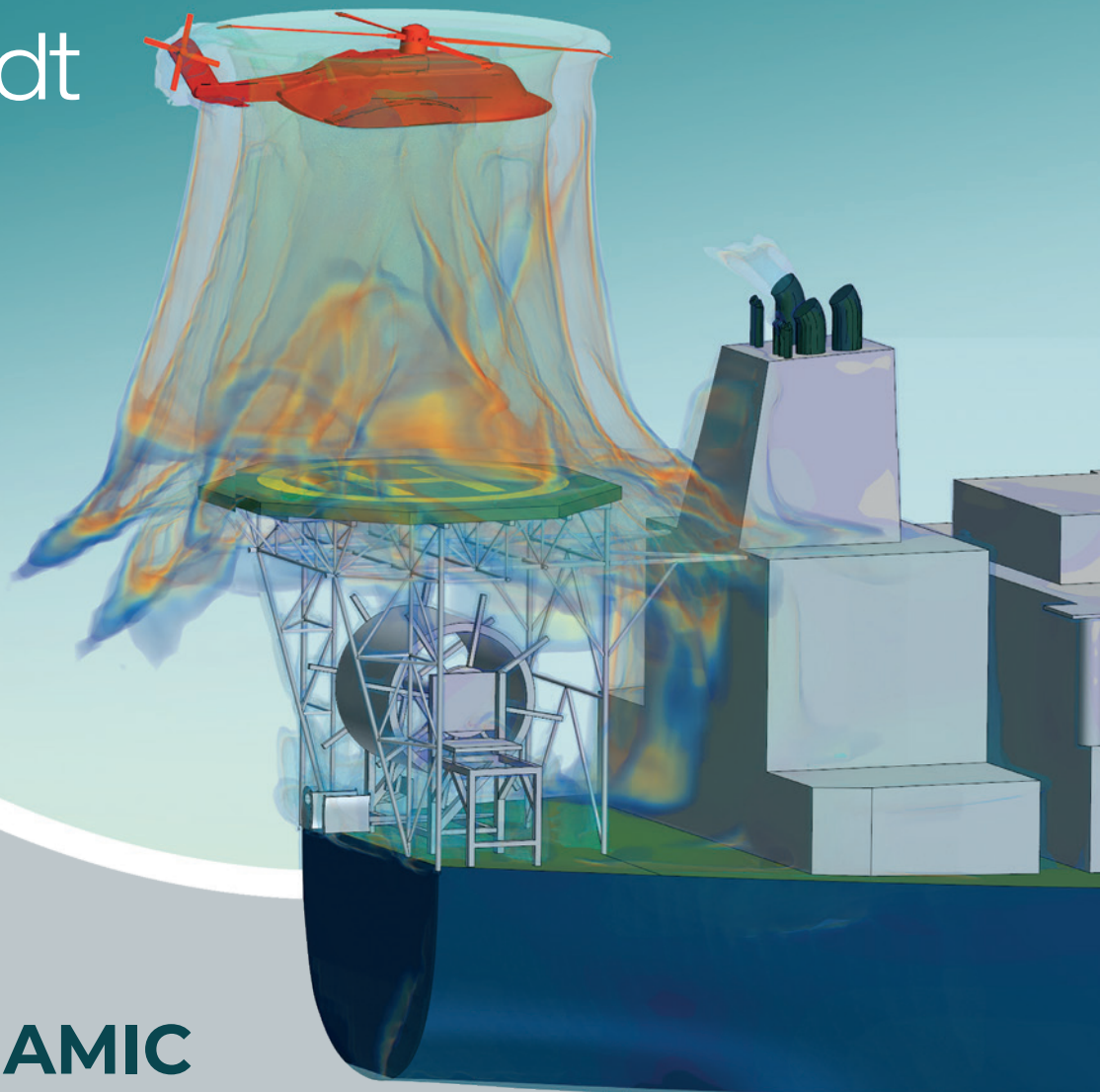


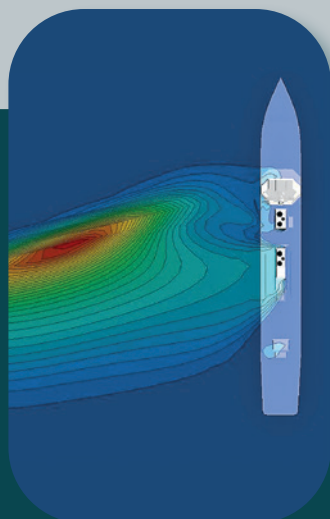
+17
years of
experience

+1500
projects
completed



AERODYNAMIC Advanced CFD Engineering

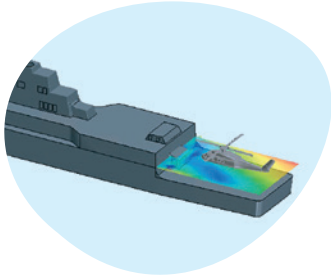
In maritime operations, aerodynamic inefficiencies lead to increased drag, fuel consumption, and operational costs. Offshore vessels, in particular, face the added challenge of wind forces affecting the stability and safety of onboard operations, including helicopter landings and exhaust gas dispersion. The key to reducing these issues lies in understanding and optimizing airflow around the vessel's structures.



OUR ADVANTAGE: TAILORED AERODYNAMIC EXPERTISE

At VICUSdt, we leverage +17 years of experience in Computational Fluid Dynamics (CFD) to deliver precise aerodynamic analyses and solutions. We stand out by customizing our services to each vessel's unique profile, ensuring optimized airflow, reduced drag, and improved safety. Our team combines cutting-edge technology with a deep understanding of marine operations to provide reliable, data-driven insights that significantly enhance vessel performance and efficiency.

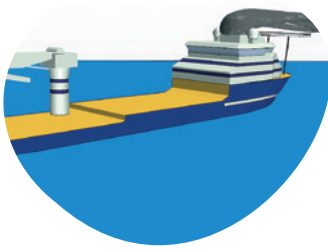
KEY AERODYNAMIC SERVICES:



Helideck & Heliports Aerodynamics:

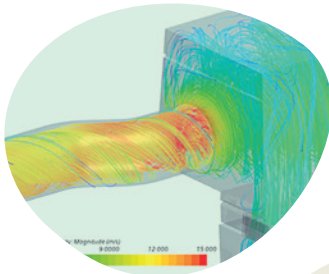
Comprehensive analysis of wind flow and turbulence around helidecks, ensuring safe helicopter operations even in challenging offshore environments. We apply the CAP 437, NORSOK C-004, HSAC RP or Brazil NORMAM 27 regulations

Tailored aerodynamic solutions that maximize efficiency, safety, and operational performance.



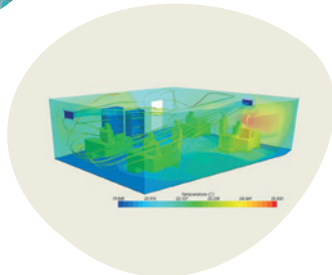
Gas & Thermal plume Dispersion:

Analyze and optimize the dispersion of exhaust gases and thermal plumes to ensure compliance with environmental standards, improve onboard air quality, and prevent interference with sensitive equipment, enhancing overall operational safety.



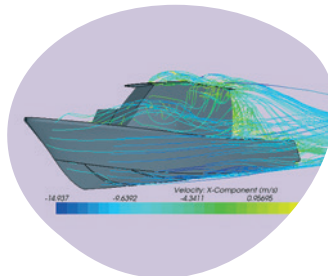
HVAC Flow Optimization:

Enhance the efficiency of onboard ventilation systems, ensuring quiet, low pressure drop, optimal comfort and performance.



Onboard Comfort:

Assess aerodynamic comfort by evaluating turbulence, exhaust gas, odors, air velocity, and temperature changes, ensuring optimal comfort for passengers and crew.

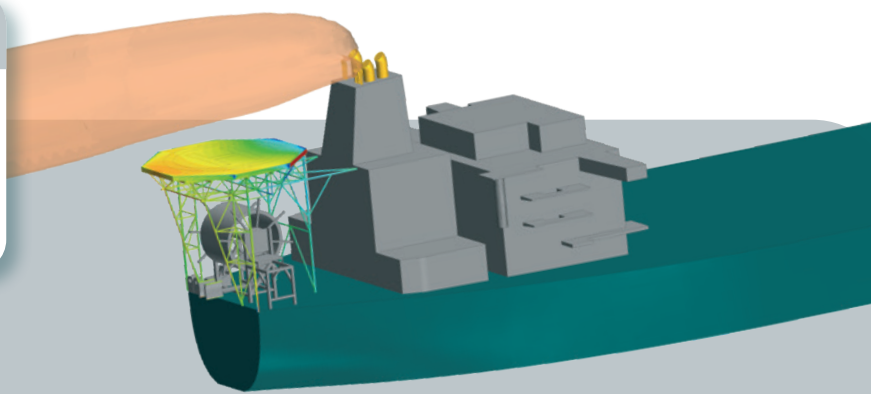


Wind Load and Drag Reduction:

Minimize wind resistance and improve vessel efficiency by optimizing the vessel's superstructure design.

Trusted by leading shipyards & shipowners

- Our esteemed clients include:
- Navantia
 - OXY
 - Freire Shipyard
 - Armon Shipyards
 - Helitecnica
 - Northsea Offshore



CONTACT US: vicusdt.com – info@vicusdt.com – [@vicusdt](https://www.linkedin.com/company/vicusdt)



SPAIN
Baixada Gándara, 16
36330, Vigo
+34 886 113 547

USA
2500 CityWest Blvd
Houston, TX 77042
+1 713 614 5403

MEXICO
Av. la Marina, 6115
82103, Marina
Mazatlán, Sinaloa
+52 669 139 0857

