

ABOUT US

IN COLLABORATION

SIREHNA is an expert in the control of the dynamic behavior of ships, rigs and facilities. SIREHNA is a major actor in the fields of naval hydrodynamics, fluid mechanics, platforms movements' prediction as well as piloting control laws and related embedded systems. SIREHNA is active since 1986 in more than 30 countries and in a wide range of companies from oil and gas to maritime ship industry.



432 TECHNOLOGIES is an engineering R&D and innovation start-up, founded in 2022, that develops innovative solutions for geo-positioning and operational applications in aerospace transport - including VTOL and rotorcraft.



432 TECHNOLOGIES



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CONTACT US

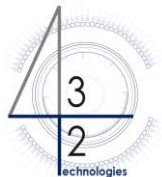
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ZEPHYR / VGO-1 is the VTOL part of MARGO and the continuation of the ZEPHYR-H project, which was honored with the **AUDACE Prize** for the French Navy in May 2021. This prize is awarded by the Maréchal Leclerc de Hautecloque Foundation and the French Ministry of Armed Forces with the support of its innovation agency: Agence de l'Innovation de Défense (AID).



MASTER YOUR VERTICAL LANDING & TAKE OFF



432 TECHNOLOGIES

VTOL OPERATIONS CONSTRAINTS

VTOL aircraft are subject to environmental constraints during landing and take-off. Beyond **certain conditions**, maneuvers may be:



Impossible to achieve for a « *standard skilled* » pilot



Incompatible with the aircraft's capabilities

These critical maneuvers are even more complex on **mobile helidecks** (ships – rigs) or **urban spots** :



Lack of stable references, **fluctuating** and **unique aerology** around the deck



Platform movements at sea



Imposed flight path in urban areas

MARGO

ZEPHYR / VGO-1 & ACP

MARGO is a **DYNAMIC SHOL** and a **COURSE PREDICTION** system ensuring a **maximum efficiency** for your VTOL operations.



GAIN

LAUNCH & RECOVERY
CONDITIONS



INCREASE

AIR-SAFETY

OUR SOLUTION

A suite adapted to **SEA-BASED & LAND** air operations including incoming urban air mobility, and developed by experienced Navy & Naval aviation crew.

“
Too many **NO USE** conditions for VTOL aircraft wich remain on their apron... ”



TAILOR-MADE

For all kind of equipment

SECURE

landing & take-off

**SMART
DECISION**

Course predictor & aid tools

DATA

Collection & analysis

