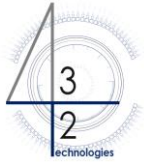


ABOUT US

IN COLLABORATION

SIREHNA is an expert in the control of the dynamic behavior of, ships, rigs and facilities and a major actor in the fields of naval hydrodynamics, fluid mechanics, prediction of platforms movements as well as piloting control laws and related embedded systems.

SIREHNA has been 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

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.

It collaborates with :



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).



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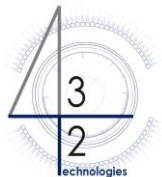


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MASTER YOUR VERTICAL LANDING & TAKE OFF



432 TECHNOLOGIES

VTOL OPERATIONS CONSTRAINTS

VTOL aircraft are subject to environmental constraints during landing and take-off. Beyond **certain conditions**, the maneuver 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 and **fluctuating** and **unique aerology** around the deck



Platform **movements** at sea



Imposed flight path in urban areas

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



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

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

TAILOR-MADE
For all kind of equipment

SECURE
landing & take-off

**SMART
DECISION**
Course predictor & aid tools

DATA
Collection & analysis

