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 form oil and gas to maritime ship industry.

SIREHNA
NAVAL GROUP

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

It collaborates with :

NAVAL GROUP

MARINE NATIONALE

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).

PRIX DE L'AUDACE 2020

MINISTÈRE DES ARMÉES
Liberté
Égalité
Fraternité

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MASTER

YOUR VERTICAL
LANDING & TAKE OFF

SIREHNA
NAVAL GROUP

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 fo a *standard skilled* pilot

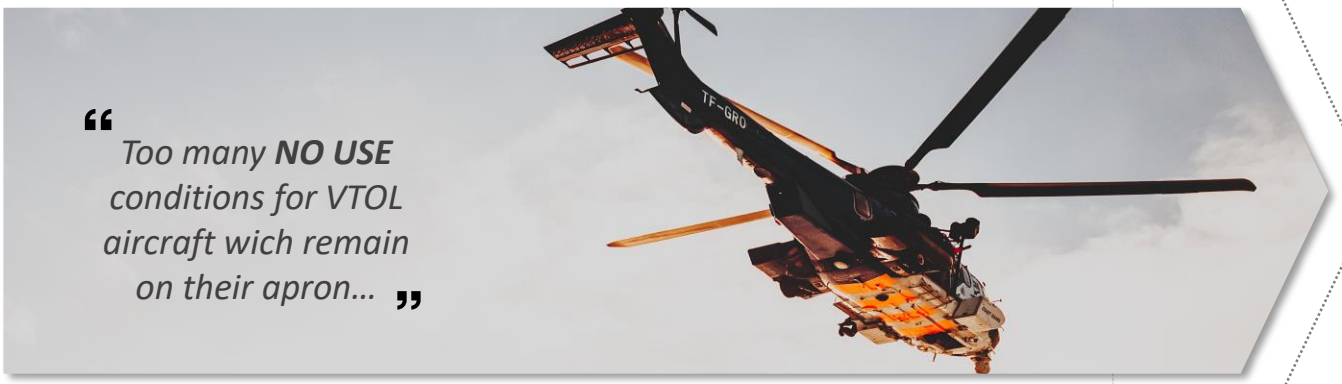
Incompatible with the aircraft's capabilities

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 wich remain on their apron..."*

MARGO
ZEPHYR/VGO-1 & ACP

MARGO is a **DYNAMIC SHOL** and a **COURSE PREDICTION** system ensuring a **maximum effiency** 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