exail





exail

- Leading high-tech industrial group
- Specializing in cutting-edge robotics, maritime, navigation, aerospace and photonics technologies.
- > Expanding customer's capabilities with a full range of robust in-house manufactured components, products and systems.
- > Employing a workforce of 1800 people worldwide
- Global footprint and presence in 80+ countries.



Exail was formed by ECA Group and iXblue joining forces in 2022. It is a subsidiary of Groupe Gorgé, a family-owned company specialized in high-technology.



Stronger together

1800+

EMPLOYES

MILLIONS D'EUROS DE CHIFFRE D'AFFAIRE

280+

20+

% DU CHIFFRE D'AFFAIRE INVESTI EN R&D

80%

DU CHIFFRE D'AFFAIRE REALISE A L'EXPORT





From components to complex systems

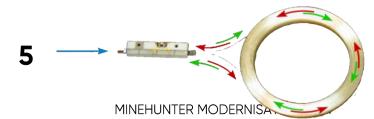
Components

> Fiber, Optic & Acc









Products/sensors

Navigation



Quantum technology / Gravimeter



Simulator



Subsea Positioning / Sonar



Unmanned Surface Vehicles



Unmanned Underwater Vehicles

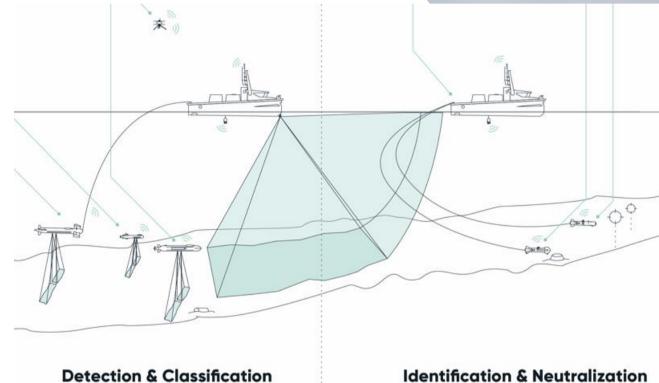


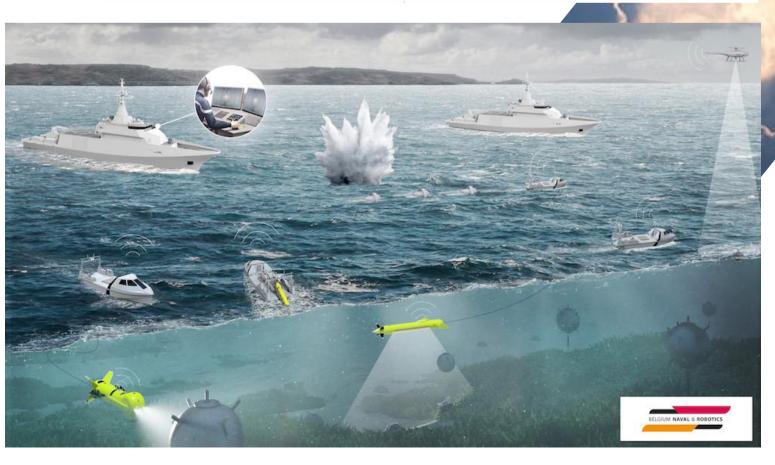
Unmanned ground Vehicles



Integrated Systems

Hydrography and MCM





> rMCM Toolbox

Toolbox Drones overview



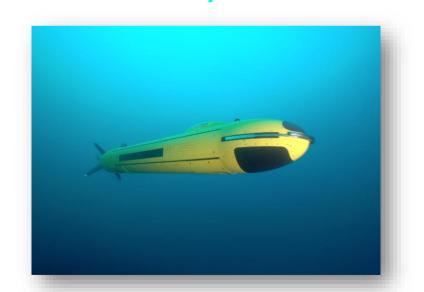
Drone Carrier Vessel MCM Mother Ship



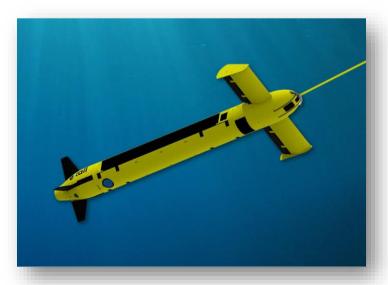
> 2x Inspector 125 surface USV



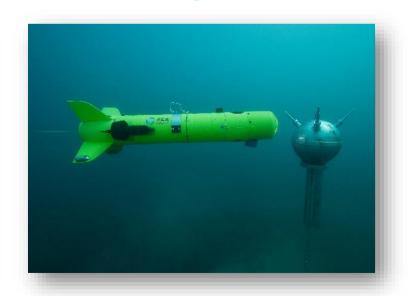
> 2x UMS Skeldar V200 UAV



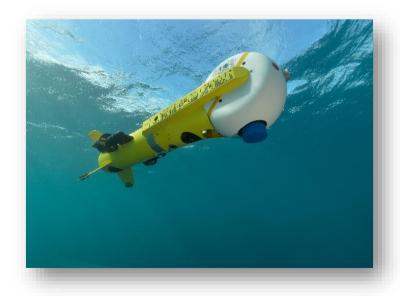
> 3x A18-M AUV



> 2x T18-M Towed sonar



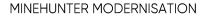
4x SeaScan ROV (identification)



> 40x K-Ster C ROV (minekiller)



> 1x Patria Multi influence sweep



Software integration platform

- > Testing and evaluation of embedded and surface software
- > Representation of equipment onboard MCMV
- > Drone farm to operate all software on the vehicles
- Mix of virtual and real environment
- Dynamic simulator to animate drones







Challenges

- > Not simply testing vehicle but a complex integrated system
- Software development multi domain & multi site
- Improve integration time and cost between sub-system integration
- > Regular connection of all pieces of complex puzzle
- > Confronting software to environment hardware as early as possible
- > Visibility for client on software development

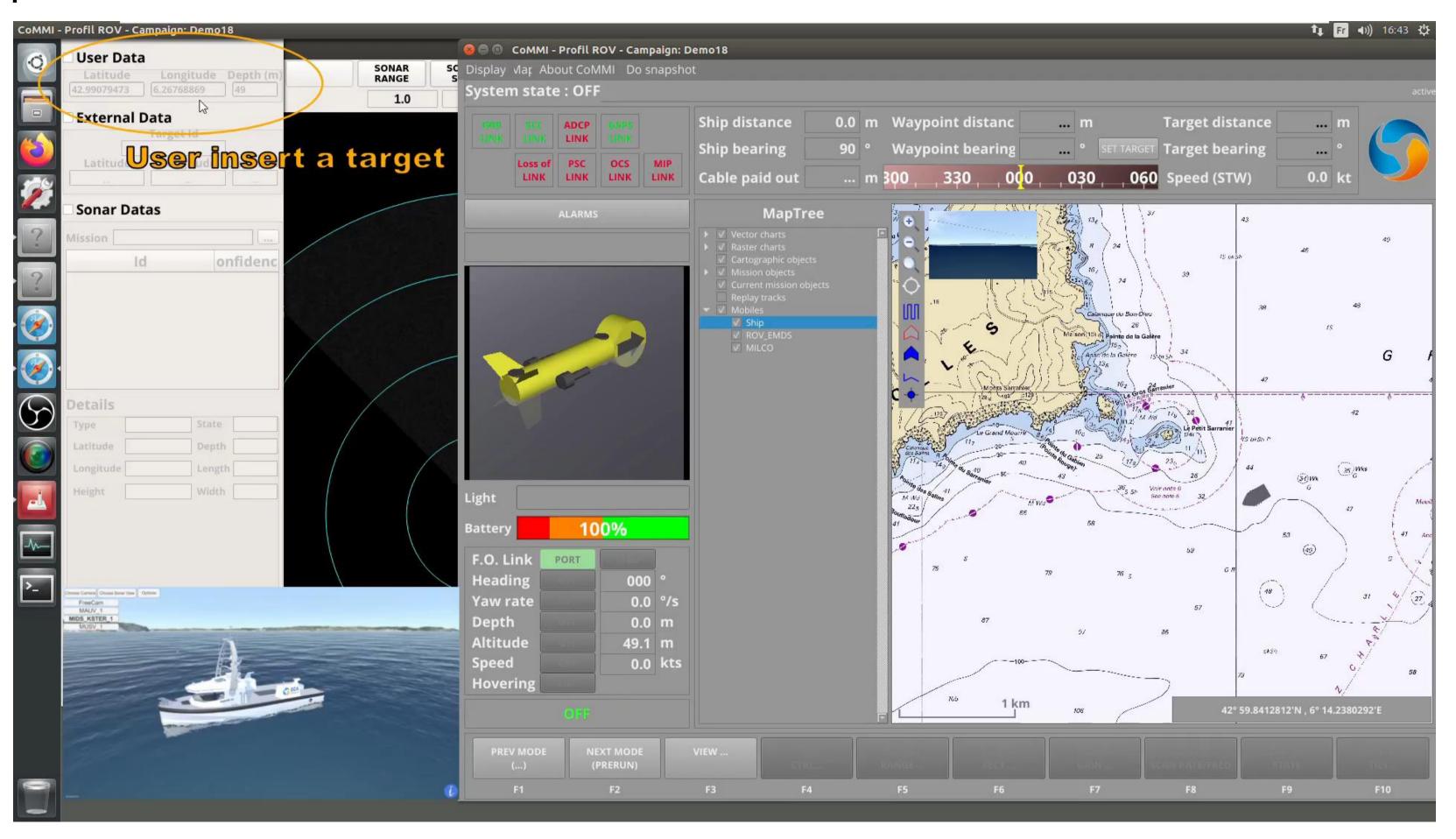


Accelerating maturity

- > Using simulation as a means of validation of software
- > Confronting system to difficult conditions (environmental, operational, failiure...)
- > Reducing errors through extensive sumulated testing
- > Through radio link to testing area at sea optimization of development teams time
- > Learning through simulation how to enhance vehicle performance
- > Being as mature as possible before taking drones fo sea

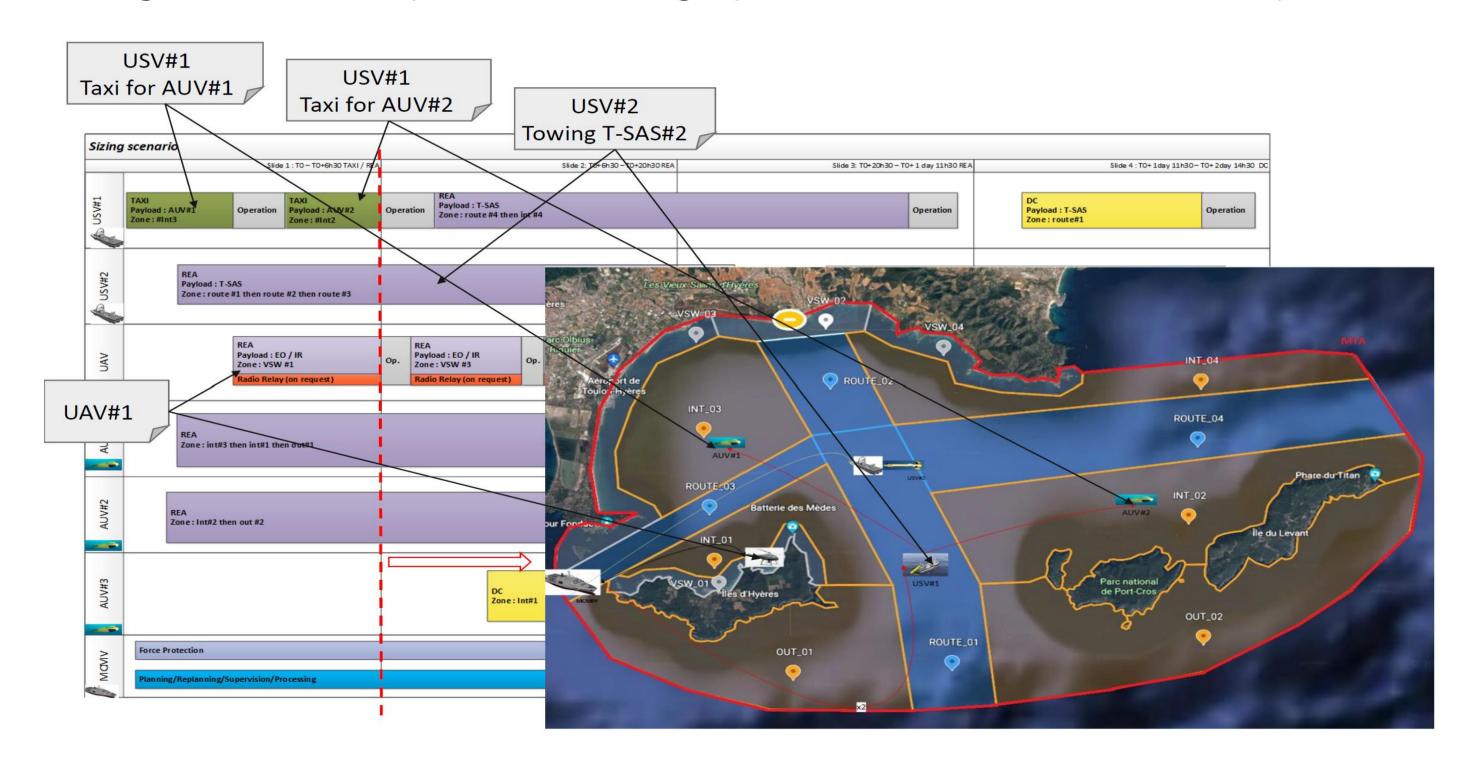


Inspection vehicle simulated test





- Sizing scenario and training
 - > Defining a mission to test system performance
 - > Environment of mission area completely modelised
 - > Reference given as 21 day mission using up to 11 drones simultaneously





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