

THE BELGIAN NAVY  
innovating for the future

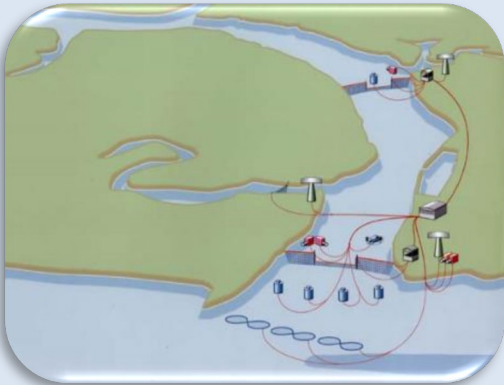


# STUURBOORD 10 STUUR 2030!

UMS – Perspectives and threats for the future  
24 MAR 22

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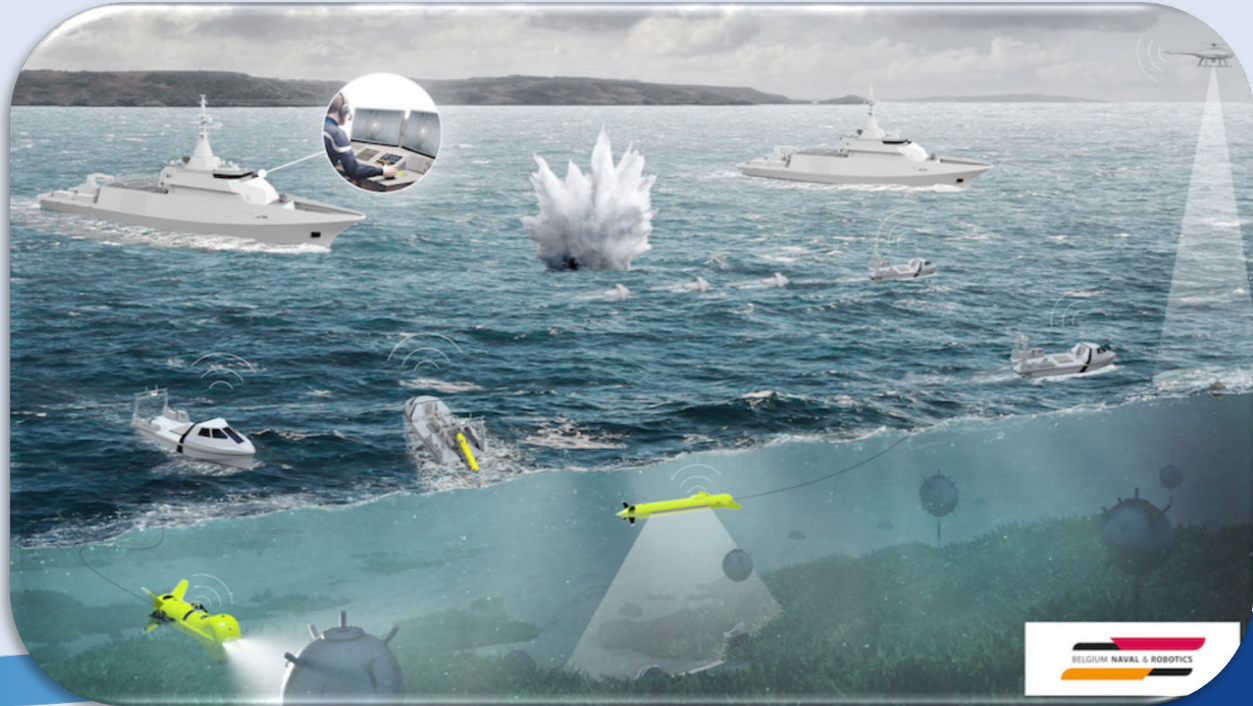
# Belgian Navy in 2030







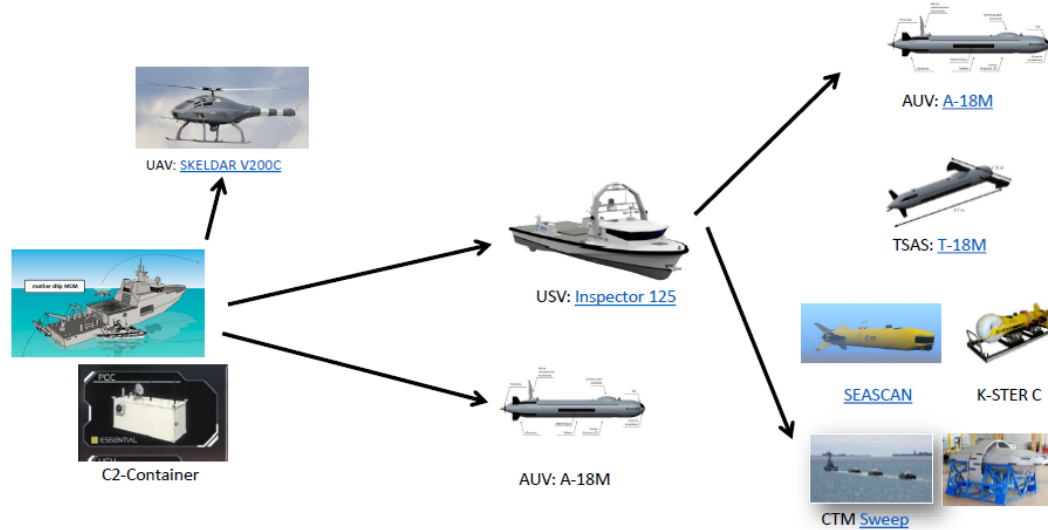
# Drones in 2025 - operations





# rMCM toolbox

Delivery 2024





# Research, development, innovation



"Triple helix"



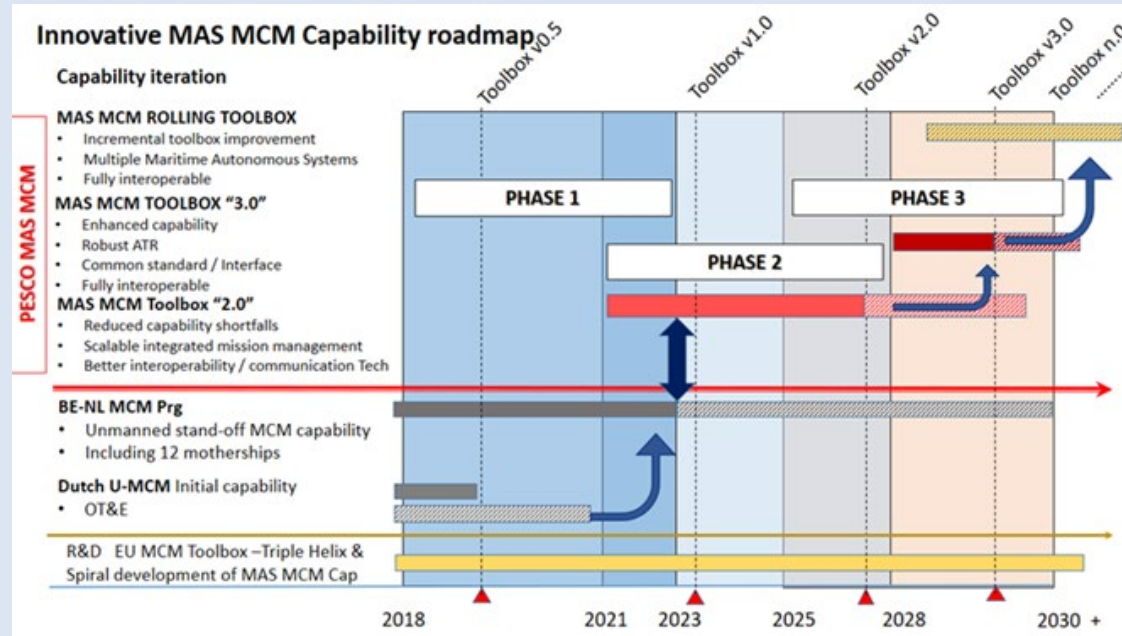
MCM LAB

MCA  
Community

Performance



# Research, development, innovation







# Research, development, innovation



**NATO  
OTAN**

North Atlantic Treaty Organization

[www.nato.int/factsheets](http://www.nato.int/factsheets)

Factsheet

November 2020

## Maritime Unmanned Systems (MUS)

Declaration of Intent <sup>1</sup> signed	Memorandum of Understanding <sup>2</sup> signed	Delivery of capabilities
	Delivery of enabling activities	

### Participants



### What is MUS?

The Maritime Unmanned Systems (MUS) initiative allows nations to pool their resources, talent and ingenuity to create better, more flexible and more interoperable unmanned maritime vehicles and systems. MUS supports the transition from large and expensive fleet platforms to fleets of autonomous systems supporting and working together with manned assets which can make navies more versatile and capable.

**To the right is an overview of existing and envisioned maritime autonomous vehicles, in clockwise order:** Northrop Grumman MQ-8 Fire Scout (Unmanned Helicopter); illustration of manned and unmanned systems working together; Boeing Echo Voyager (Unmanned Submarine); Boeing Wave Glider (maritime observation vehicle)





# Research, development, innovation







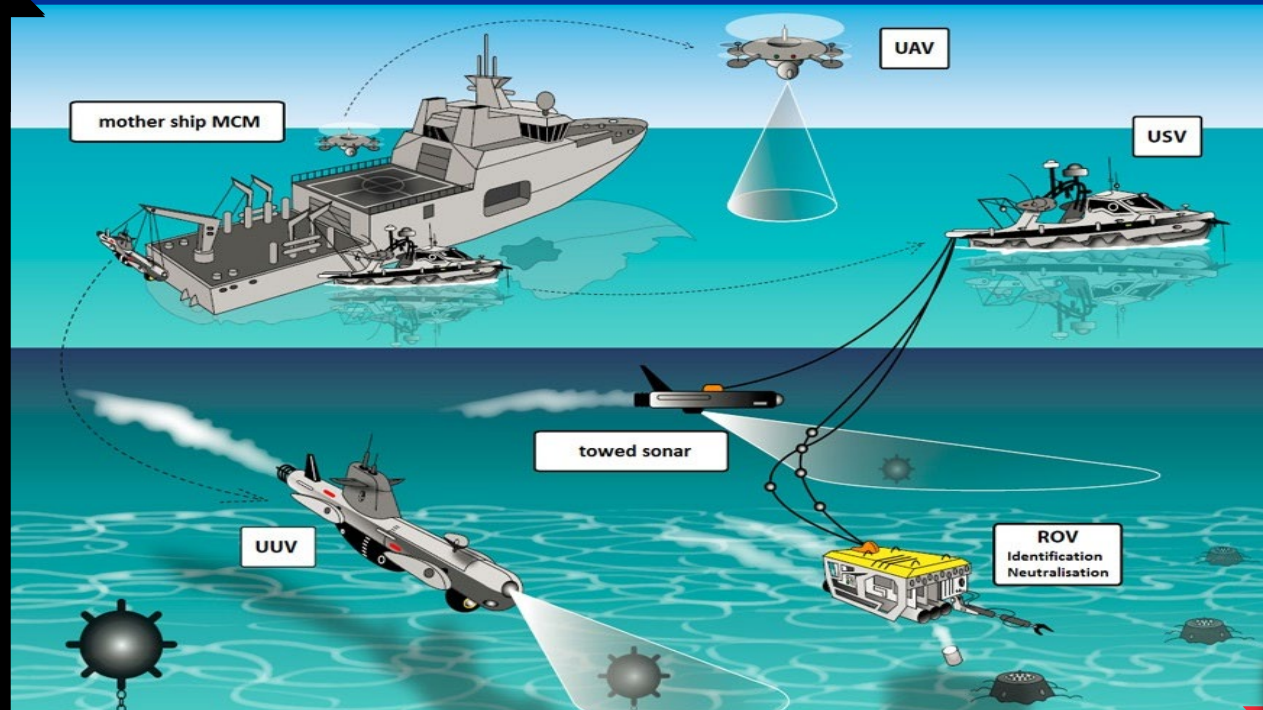
# Four dimensions of human-agent trust establishment

Socio-ethical considerations

Reliable performance

Understanding the process

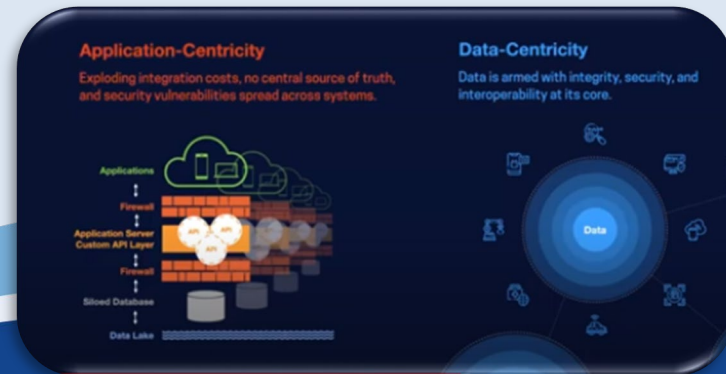
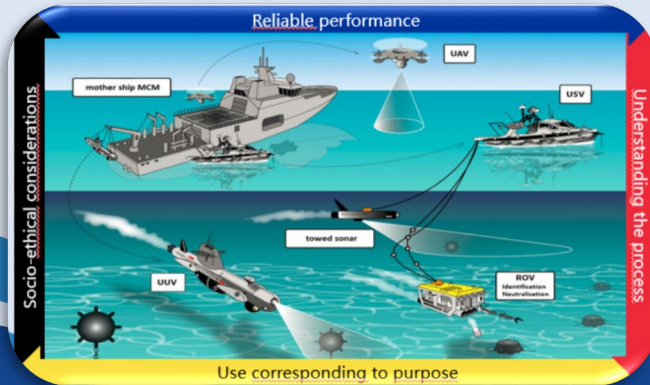
Use corresponding to purpose

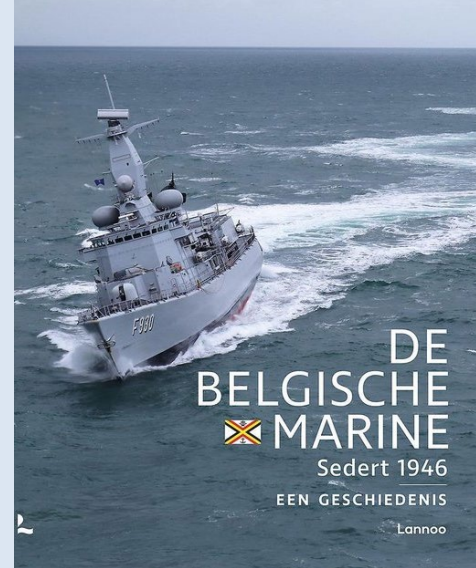




# Perspectives & Threats

- Vocational Education and training – Research, development, innovation
- Fielding of 'human-agent' thrust training solutions
- Data-Centricity
- Cyber (and Electronic Warfare) resilience
- C-UAS threat





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