

- MARINE
- KTZ SBH VAN BELLEGHEM KRISTOF

04 OCT 2024



DEFENCE
Belgian Navy

The capacity development of the Belgian Navy in the next decade

■ Agenda

- 1 A challenging and changing environment
- 2 The Belgian Navy in 2035 – design orientations
- 3 Conclusions

■ Agenda

1

A challenging and changing environment

2

The Belgian Navy in 2035 – design orientations

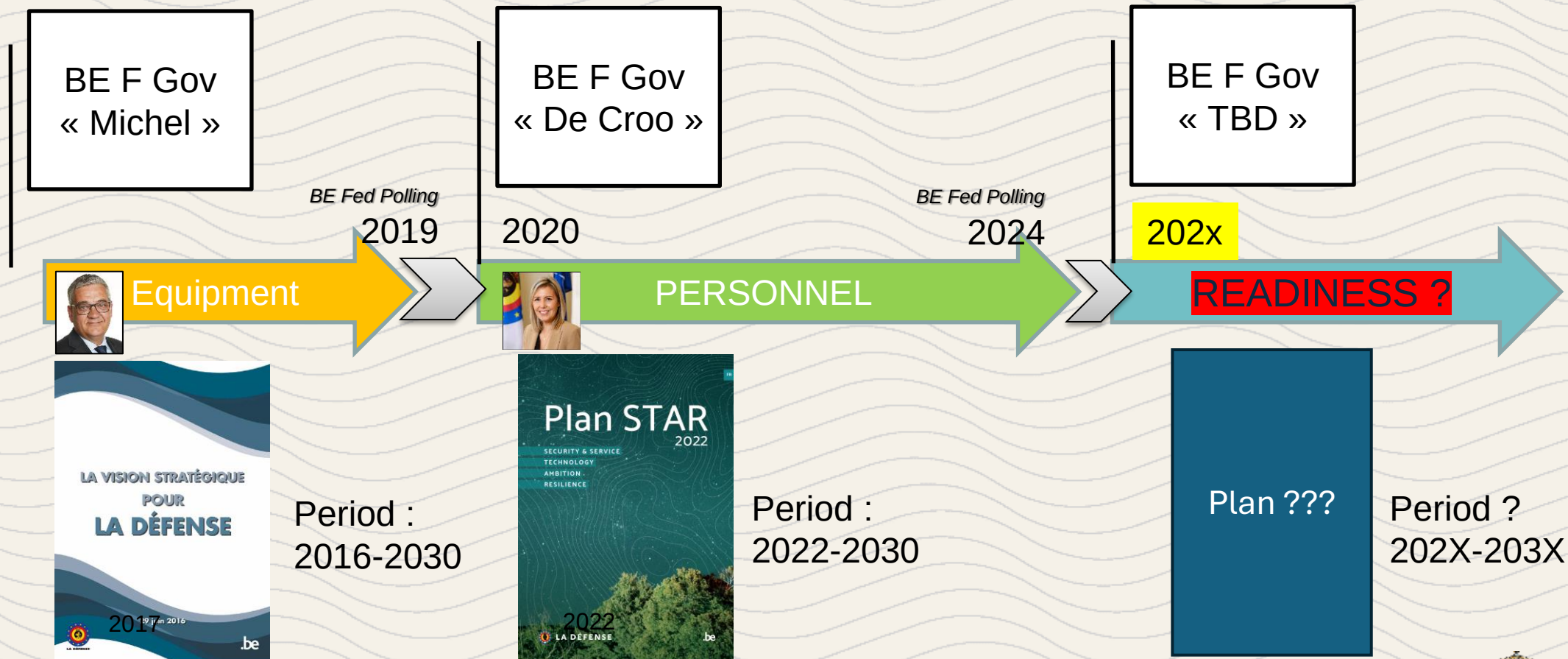
3

Conclusions



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Political guidance : a cyclic process



Innovation and EDT's

The Future Tech Landscape

• Emerging and Disruptive Technologies

- DATA : Big Data & Advanced Analytics (BDAA)
- AI : Artificial Intelligence (AI)
- AUTONOMY : Autonomous Systems (AS)
- QUANTUM : Quantum Technologies (QT)
- SPACE : Space Technologies (ST)
- HYPERSONICS : Hypersonic Weapons (HW)
- BIOTECH : Biotechnology & Human Enhancement (BHET)
- (+) MATERIALS : Novel Materials and Manufacturing (NMM)

• Important Synergies

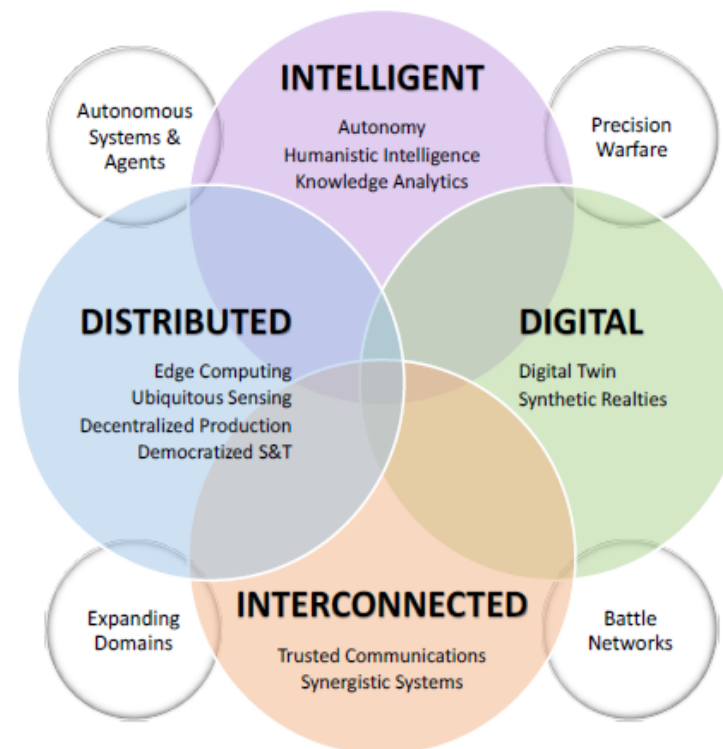
- AI-DATA-AUTONOMY
- AI-DATA-BIOTECH
- AI-DATA-MATERIALS
- DATA-QUANTUM
- SPACE-QUANTUM
- SPACE-HYPERSONICS-MATERIALS

• Developing Operational Environments

- Space, Cyber/Info-sphere, Arctic, Urban

• Strategic Challenges

- Culture, Ethics, Law, Environment, Geopolitical



UKR war – So what ?

- Accelerate innovation and strengthen industrial response
- Develop the ability to counter UxS (unmanned systems) and use drones in all dimensions
- Improve decision-making, response time, and accelerate the "kill chain" (using AI)
- Further develop the NMW capacity against mines
- Strengthen the capacity to protect critical infrastructure (including cyber)

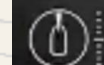


How to de-mine
the Black Sea?

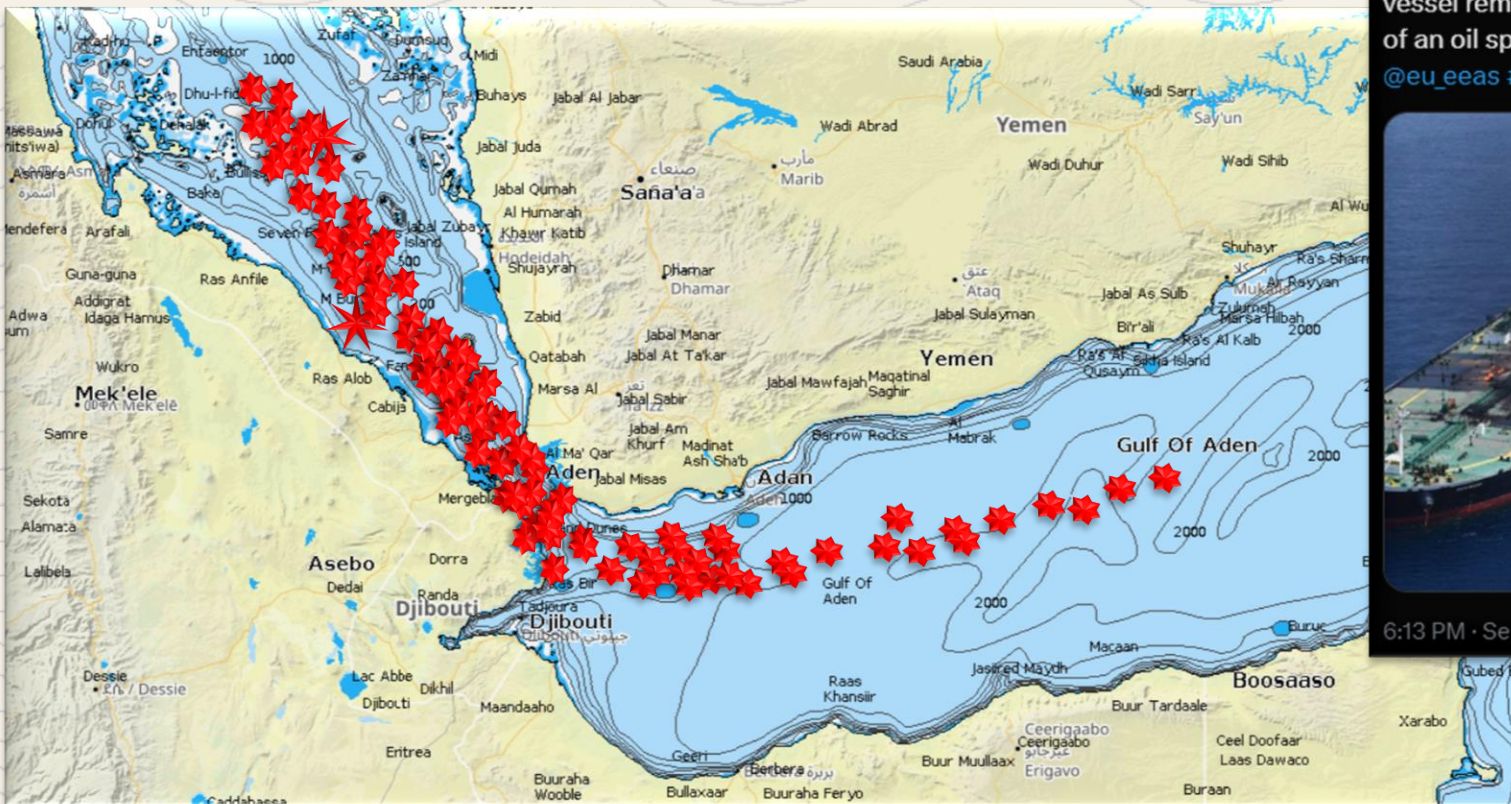
WORLD AT WAR
A WION SPECIAL SERIES



**UKRAINE BLUNTS BLACK SEA
BLOCKADE WITH NAVAL DRONES**



The threat is out there...



← Post



EUNAVFOR ASPIDES
@EUNAVFORASPIDES

The MV SOUNION, due to the large amount of crude oil it carries, presents a significant environmental threat. Private companies are involved in the salvage operation that is about to start. Upon their request, EUNAVFOR ASPIDES will provide protection to the tug boats, that will deal with the salvage operation and facilitate their efforts to prevent an environmental disaster.

Currently, several fires continue to burn on the vessel's main deck. The vessel remains anchored without drifting, and there are no visible signs of an oil spill.

@eu_eas #MaritimeSecurity #RedSea #Sounion



6:13 PM · Sep 2, 2024 · 64.9K Views



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A challenging and changing environment

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The Belgian Navy in 2035 – design orientations

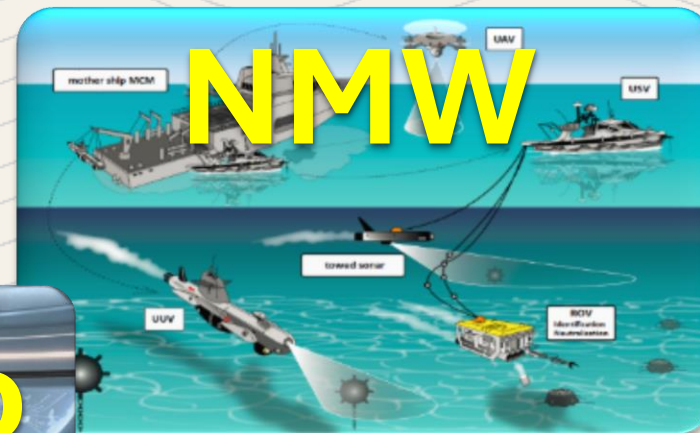
3

Conclusions



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The Belgian Navy in 2035 – design orientations



Surface combattants



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Naval Mine Warfare

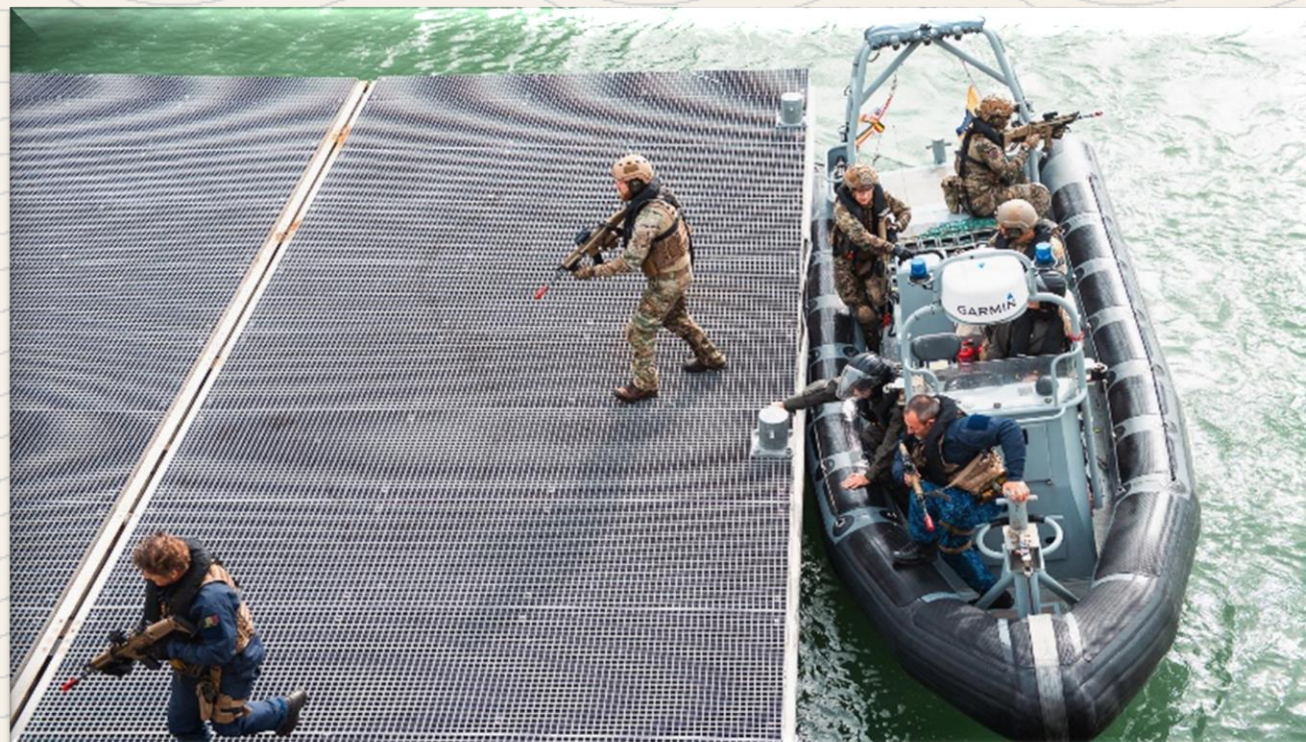


Coastal Security



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Harbour protection



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■ Infrastructure and C2 - Innovation



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■ Conclusions → so what?

- Challenging and changing environment:
 - Mutual support Industry – Navy
 - R&D and exchange of knowledge
 - Early identification of needs and solutions
- New capabilities - projects
 - Opportunities to seize

