NATO OTAN
CAPDEV REQ
Innovation Branch

NATO Task Force X BALTIC
Maritime Autonomous Systems

VERSION 1.0

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Background

NATO faces a growing threat in the Maritime Domain:

- Recently in the Baltic Sea, with several incidents disrupting critical undersea infrastructure
- Current conventional platforms are limited in detection; they struggle to provide (affordable) persistent ISR capabilities across a large region

Response

Our plan is to act fast:

- Acquiring a small number of autonomous systems to meet current requirements for an opposing force
- Leveraging existing NATO and multinational mechanisms, we will scale to an interim fleet solution, proving the effectiveness of the concept

The intention is to support nations in realising their own long-term solutions.

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Task Force X BALTIC

Task Force X is a rapid technology integrator for forward-deployed operations:

- Rapidly integrating uncrewed systems and artificial intelligence (AI)—into conventional operations
- Provide a persistent ISR capability to *detect, disrupt and deter*
  - such as suspicious activities against critical undersea infrastructure
- Collaborating with best-in-class private sector innovators to deliver *low-cost and low-risk* effects to our operators

Collect

Data with uncrewed systems and other EDTs

Fuse

Data through a resilient network

Exploit

Data with cutting-edge AI to inform situational awareness and decision-making at the speed of relevance.

Key Features

Autonomous Systems Integration	AI-Driven Operations	Rapid Deployment and Scalability
Detect and identify malign activities: • Uncrewed capabilities + static and dynamic sensors = persistent surveillance (ISR) • Sensors employed from Seabed to Space to collect the massive amounts of data necessary to monitor our infrastructure /vulnerabilities	Improving situational awareness and decision-making: • Data fusion coupled with advanced AI algorithms to exploit data from drones/sensors to detect and track potential threats in real-time • Digitising the battlespace using a cloud-based architecture to enable the use of AI for processing and exploitation. • The NATO Centre for Maritime Research and Experimentation (CMRE) has promising technology available as prototypes	Quickly adapting and deploying systems: • Effective for both routine patrols and crisis response. • Speed of fielding capabilities takes precedence over the cumbersome specification process. • Allies to plug and play into Task Force X. Systems will not only be interoperable but interchangeable when it comes to delivering the mission in an agile fashion.

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Get in touch

Bart HOLLANTS

NATO Innovation Network,

Chairman

T: +1 804 650 9808

E: Bart.hollants@act.nato.int

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GLIDE Bombs

ACT Innovation Branch - Mission analysis

Glide Bomb
7 minutes introduction

Receipt of mission

1. Branch is tasked by SACT to focus on Glide Bombs – Main focus the next 6-9 month.

1. The ICHAL 2025 scenario currently under development contains a related **vignettes to counter Russian glide bombs**. The Vignette is a Challenge to be **offered in February 2025**.

1. SACT requests ACT with Innovation Branch as lead to:
    a. **Design of the counter glide bomb challenge (ICHAL25)** to maximize the benefit to NATO and the participating Nations to help develop a culture of innovation.
    b. **Research for solution to counter glide bombs**
    c. **Continue consultations** with industry and Innovation entities to incorporate existing solutions into one or the one solution.

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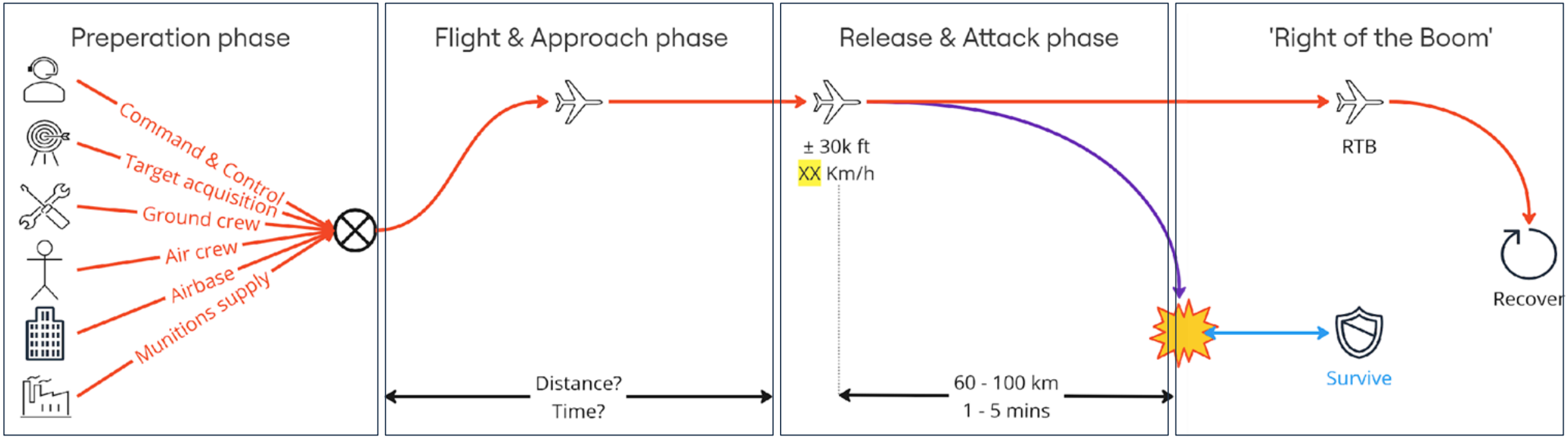
Implied task #41:



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Glide bomb engagement

Access the Crowdsmart Engagement – the idea collaboration tool for this exercise – by following **this link** or by scanning the **QR code** below

How It Works

1. **Input your ideas**: You'll be asked to input ideas on how to solve the problem.
2. **Prioritize ideas**: Next, you'll see a selection of ideas from others to prioritize.
3. **Discuss and build on ideas**: After prioritizing ideas from others, discuss those ideas. This is your opportunity to be inspired by other ideas and generate new ones.
4. **Review**: Once the collaboration period is over, we will follow up with a group discussion to highlight the most important concepts and the broader themes discussed by the group.

Questions

APPENDIX