

The safety and security dimension of space – Setting the scene

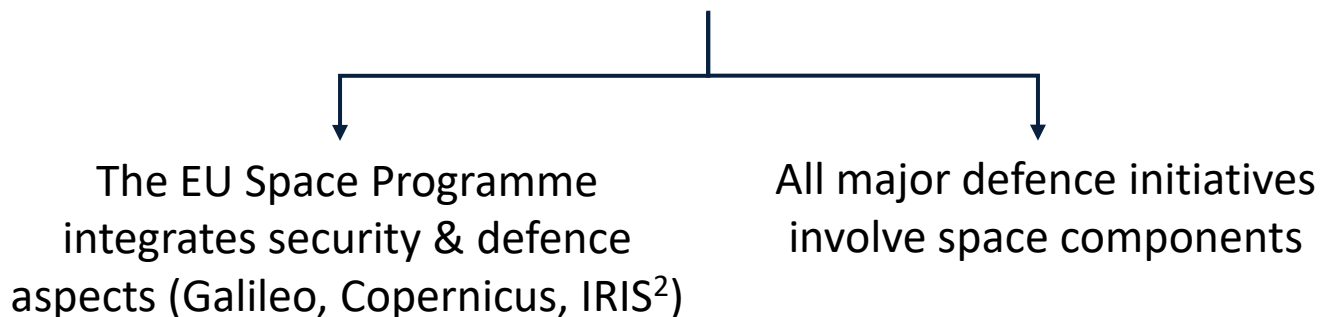
Mathieu Bataille, Research Fellow and Lead on
Security & Defence, ESPI
25 January 2024, NEREUS event, online

Space for Security & Defence



Security & Defence of Space

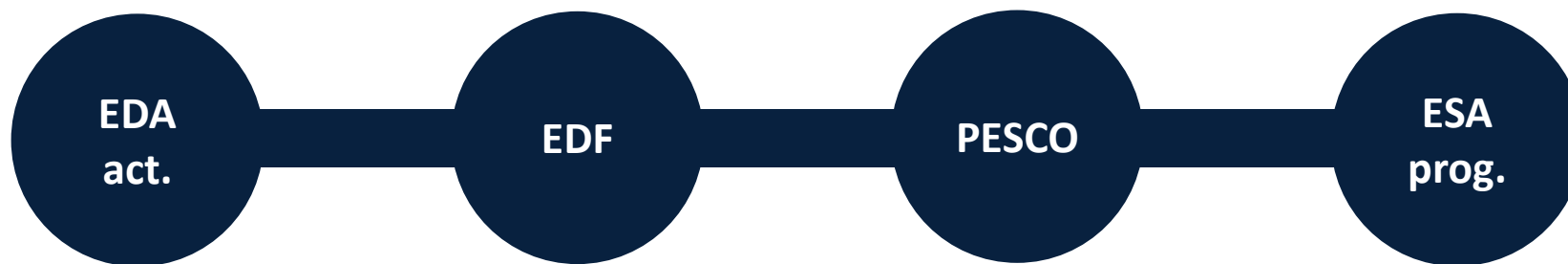
EU approach: intertwining space and defence initiatives



ESA approach: promoting interconnection of existing systems for security uses

- Current programmes and proposed initiatives:
- Rapid and Resilient Crisis Response Accelerator
 - Civil Security from Space

Relevant channels of implementation






 **Major evolution in 2023: Publication of the [EU Space Strategy for Security and Defence \(EU SSSD\)](#)** 



Five objectives:

1. Converging on a vision of the space threat landscape
2. Enhancing the resilience and protection of space systems and services in the EU
3. Responding to space threats
4. Enhancing the use of space for security and defence
5. Partnering for responsible behaviours in outer space

Investment in military space

-  French Law on Military Programming 2024-2030
→ €6 bn for space
-  German special fund (“Sondervermögen”)
→ Expenditures in early warning, satcom
-  Poland bought two EO satellites

Need to develop skills

-  Attract talents in the military space sector
-  Ensure adequate training of military space operators



Schriever wargame 2023



AsterX 2023



Space Threat Response Architecture 2023

The extensive influence of space on the war in Ukraine



Monitoring of a Russian convoy by Maxar

KA-SAT Network cyber attack overview

Viasat is providing an overview and incident report on the cyber-attack against the KA-SAT network, which occurred on 24 February 2022, and resulted in a partial interruption of KA-SAT's consumer-oriented satellite broadband service.

March 30, 2022 04:55 AM • Viasat, Inc.

Cyberattack against ViaSat's KA-SAT



SIFU initiative



Use of Starlink for military purposes



Commercial satellite imagery

Lessons learned

1. The cyber dimension of space infrastructure is key
2. Commercial space actors are game-changers

Thank you!

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Engagement



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Security & Defence



Exploration and Science



Space as an asset



Industry, Innovation, Finance, Workforce