



# Military and U-space: Guidelines

SC4 Kick-off meeting | 20 December 2023



IMAGINE  
CREATE  
ACHIEVE  
*a sustainable future*

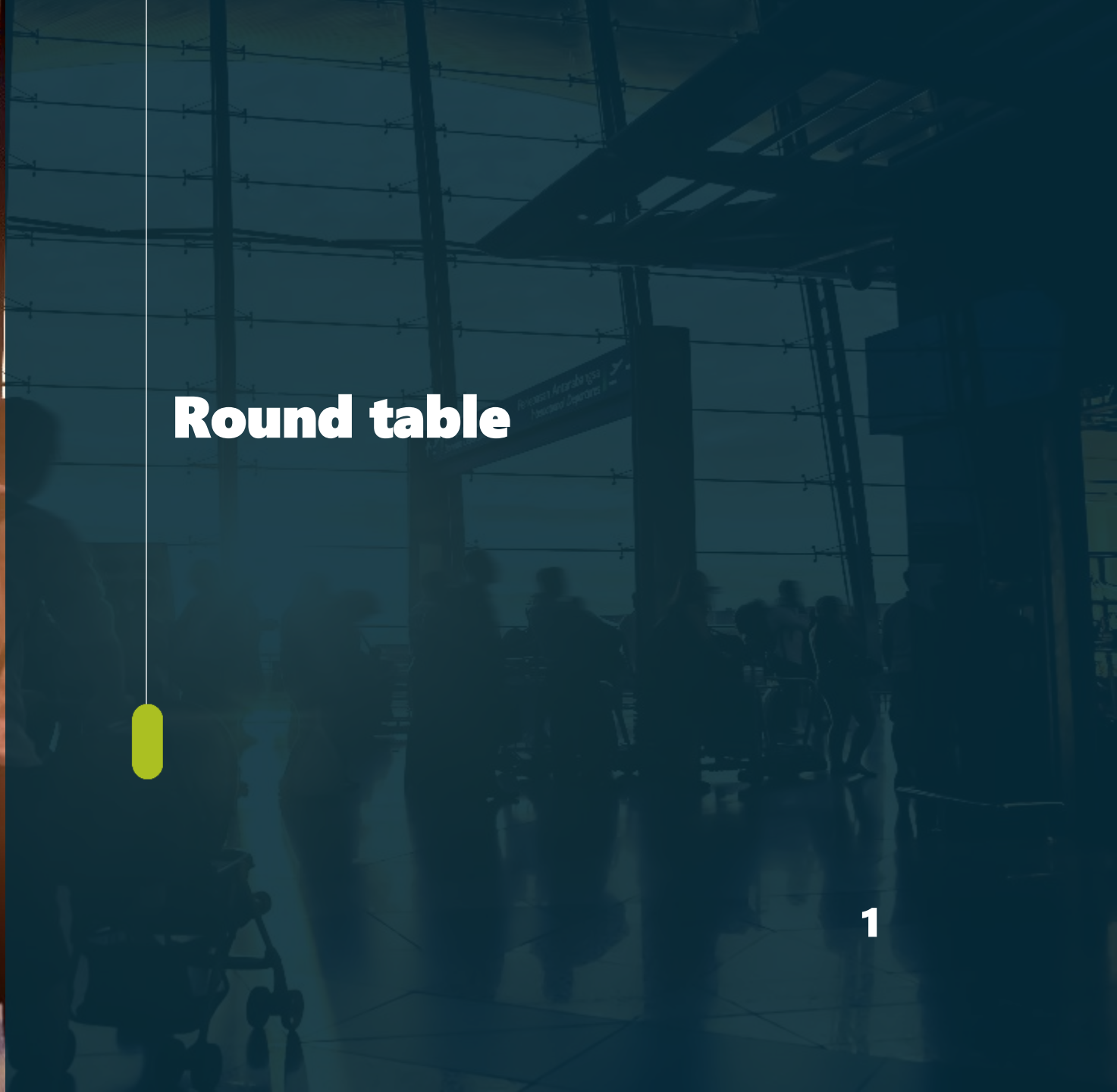


# contents

- 1 . 9.30 – Welcome and round table
- 2 . 9.40 – Contractual aspects
- 3 . 9.50 – Study presentation
- 4 . 10.30 – Documents review
- 5 . 10.50 – Closure of the KOM



## Round table



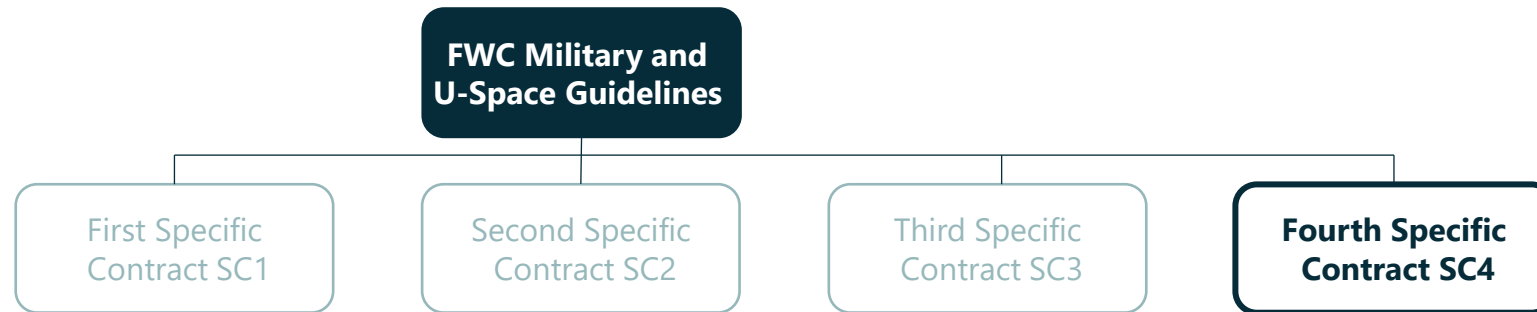


## Contractual aspects



# Contractual aspects

## Contractual structure



## Signed on 15 December 2023:

- Framework contract N° 20.ISE.OP.305 for the provision of the study “Military and U-Space: Guidelines”
- Specific Contract N° 1 (SC1) N° 20.ISE.SC.261 implementing framework contract N° 20.ISE.OP.305 (completed)
- Specific Contract N° 2 (SC2) N° 20.ISE.SC.310 implementing framework contract N° 20.ISE.OP.305 (on-going)
- Specific Contract N° 3 (SC3) N° 22.ISE.SC.059 implementing framework contract N° 20.ISE.OP.305 (completed)
- Specific Contract N° 4 (SC4) N° 23.ISE.SC.053 implementing framework contract N° 20.ISE.OP.305

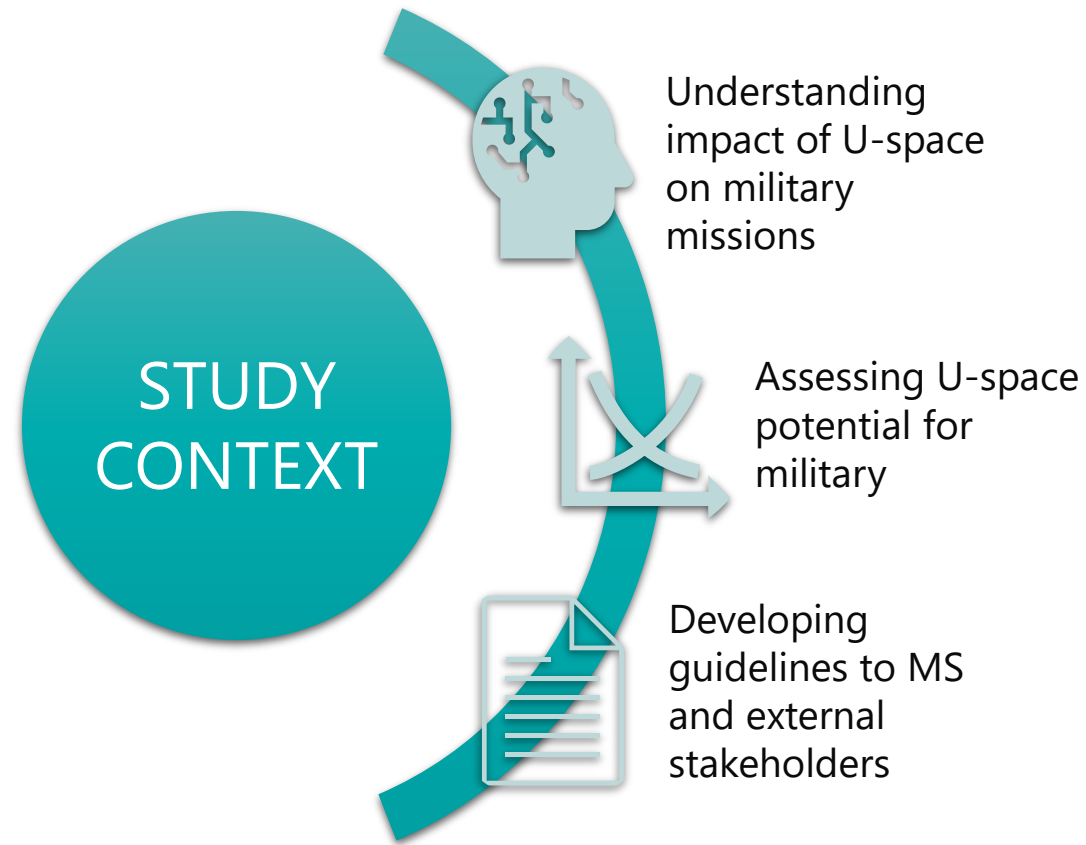


# Study presentation



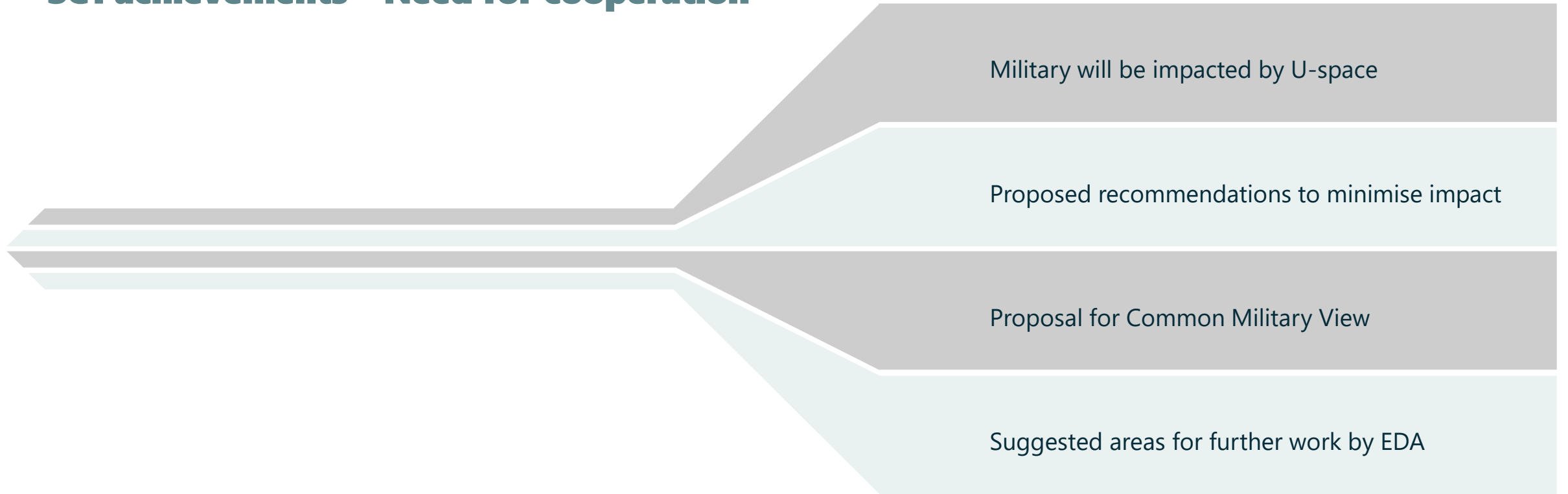
# Overall framework objectives

## Assisting EDA and its MS in establishing a common view on U-space development



# Achievements so far

## SC1 achievements – Need for cooperation





# Achievements so far

## SC3 achievements – Limitations of U-space mechanisms for segregation

Electronic conspicuity to applicable to all military flights

Dynamic Airspace Reconfiguration only in controlled airspace

Proposal for FUA-like processes in low-level airspace

Additional Use Cases to SC1 D1

# SC4 objectives

## **Perform a comparative assessment of possible roles that military could play in U-space (more or less integration in the overall U-space ecosystem)**

Consider the different possible U-space architectures (with or without a single CISP)

Take into account ability of military systems to exchange information with U-space

Assess the costs associated with the different business models under consideration

## **Support the dissemination of SC4 results towards MS and external stakeholders**

# SC4 detailed WBS

## Task 1: analysis of possible roles of military in U-space

### Task 1.1: development of operational scenarios

- Define possible roles that military could adopt in U-space:

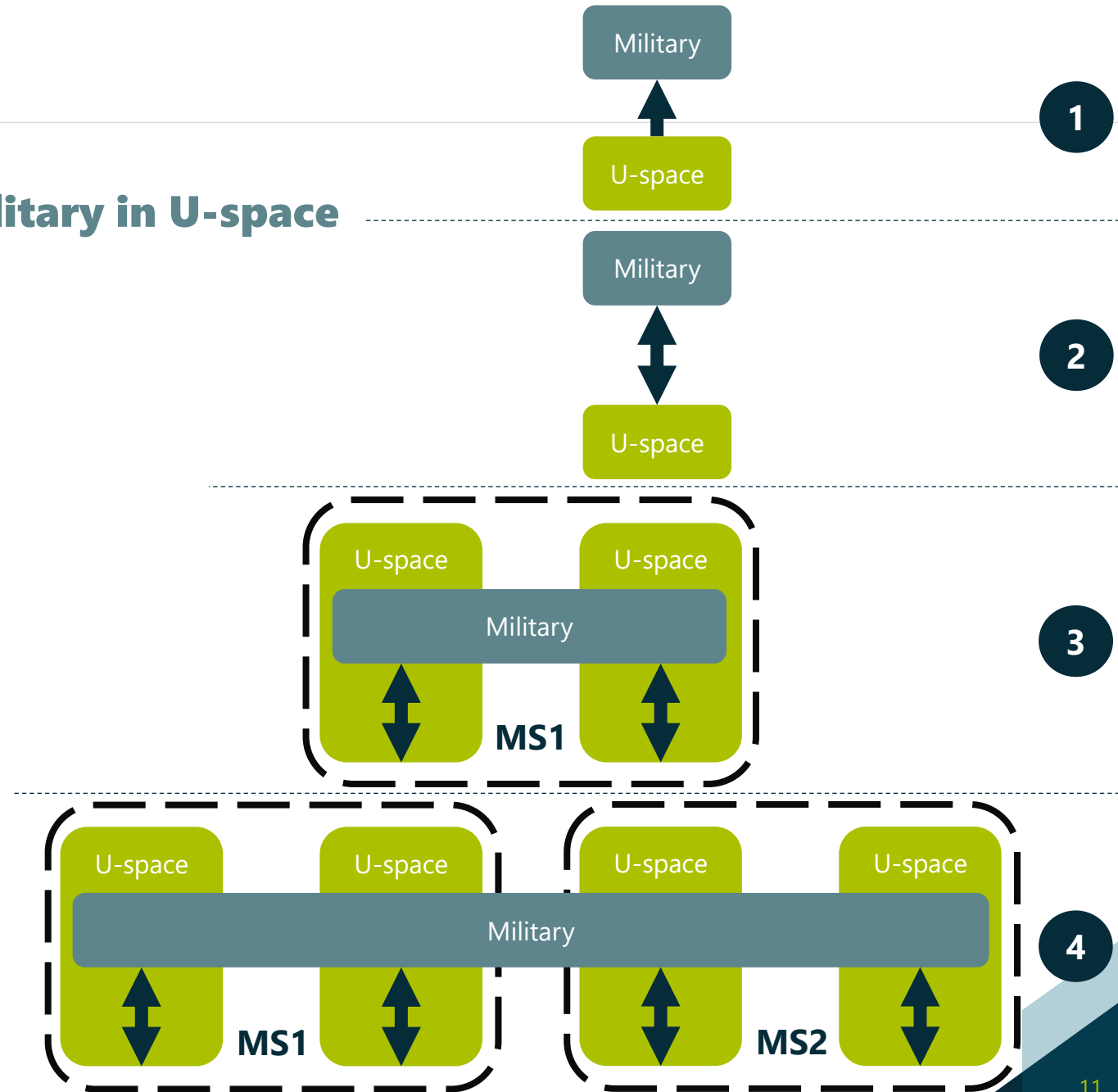
- 1 Consumer of U-space services
- 2 Provider of information to CIS/CISP
- 3 National USSP
- 4 Pan-European USSP

- Possibly supported by interviews with selected MS (e.g. Spain, Belgium, Germany, France?)

### Task 1.2: development of assessment criteria

### Task 1.3: multi-criteria options analysis

- Baseline=current role as UAS geo-zone manager



# SC4 detailed WBS

## Task 2: business model for a military USSP

### Task 2.1: description of current military organisations

- Functional and general depiction of how Armed Forces are currently organised, with a focus on Air Forces
- Could lead to a few descriptions if several models emerge

### Task 2.2: benchmark of civilian ANSP organisations

- Performed similar assessment for ANSPs adopting a role in U-space
- Targeted countries: Spain, Belgium, Germany, Italy, Poland, and possibly Romania, Bulgaria

### Task 2.3: definition of possible business models

- Transcribe operational scenarios from Task 1 into organisational models from Task 2.1
- Also highlights changes to existing functions (e.g. ASM)

# SC4 detailed WBS

## Task 3: impact on system interfaces

### Task 3.1: information exchange requirements

- Define needs for exchanges of information in each operational scenario from Task 1
- Consider both U-space architectures, i.e. single CISP and distributed CIS

### Task 3.2: high-level technical architecture

- Describe technical architectures supporting each operational scenario
- Helicopter view, at main function or main component level (i.e. traffic surveillance, flight plan processing, etc.)
- For operational scenarios where military would be USSP, also include military U-space system

### Task 3.3: impact on system interfaces

- Identify needs for updated and new interfaces
- Identify supporting standards, if existing, or need for new standards

# SC4 detailed WBS

## Task 4: financial assessment

Build on financial assessments developed under SC2 and SC3 to describe financial impact of each operational scenario

## Task 5: dissemination

Task 5.1: development of communication materials

Task 5.2: support to dissemination events

# SC4 initial schedule



- ▼ MGT meetings
- ▼ Progress Meeting / Final Meeting
- ◆ MGT deliverables
- ◆ Final MGT deliverables
- ◆ Communication material
- ▼ Draft deliverable
- ▼ Deliverable
- [Task bar] Task
- [Review bar] Review and comments period
- Workshop

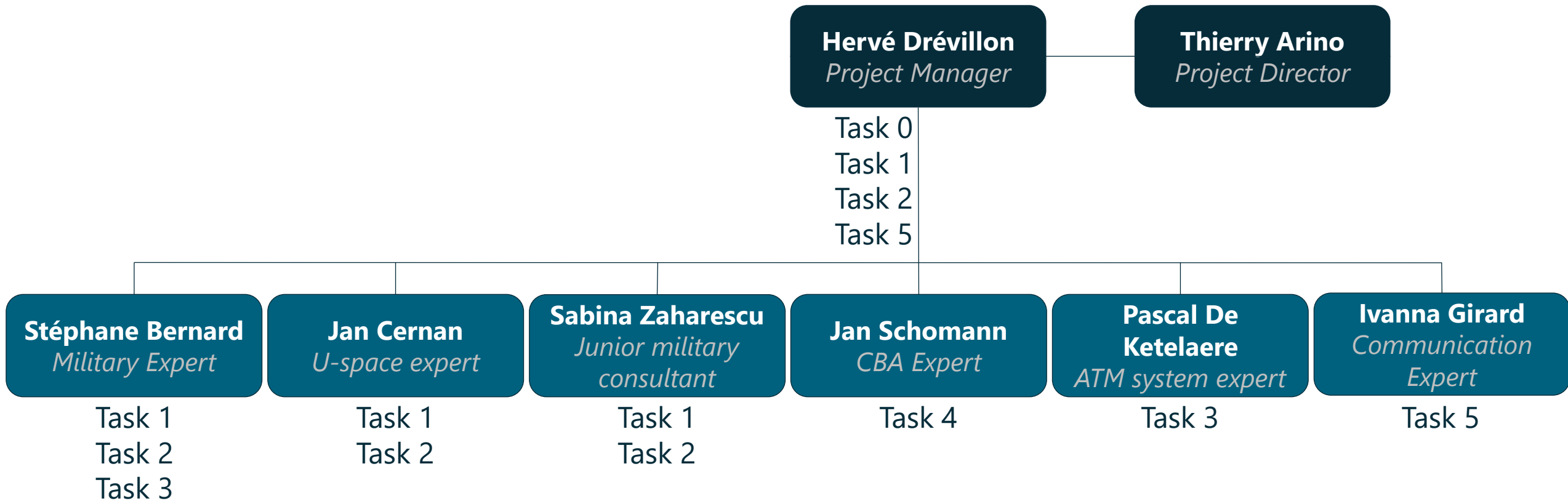
# SC4 Final Report

## Proposed report structure

1. Executive Summary
2. Possible roles for the military in U-space and supporting organisation
3. Information exchange requirements and impact on system interfaces
4. Financial assessment
5. Guidelines on the future role military in U-space



# Team organisation





## Documents review



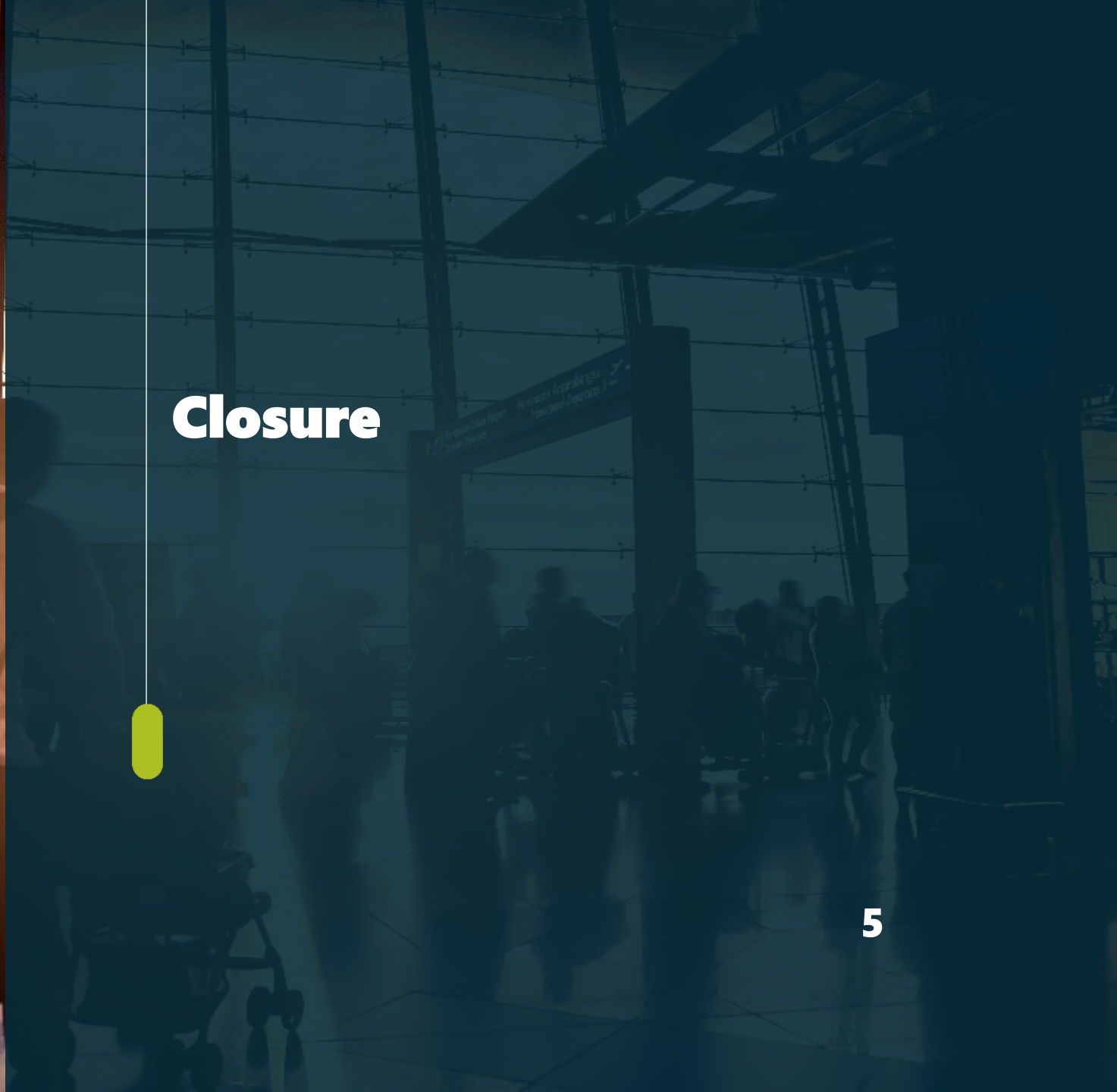
# Documents review

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**Draft SC4 PMP (see external document)**



# Closure



# Next steps

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- **Finalisation of PMP**
- **Drafting KOM MoM**
- **Initiation of Tasks 1 and 2**
- **Delivery of the first Monthly Progress Report (January)**

# Clarification & AOB

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