



EU Drone Days

**Launch of the
European Drone Strategy 2.0**

SESAR U-space Showcase

Brussels, 29-30 November 2022



#EUDroneDays

BURDI

Belgium – Netherlands U-space Reference Design Implementation

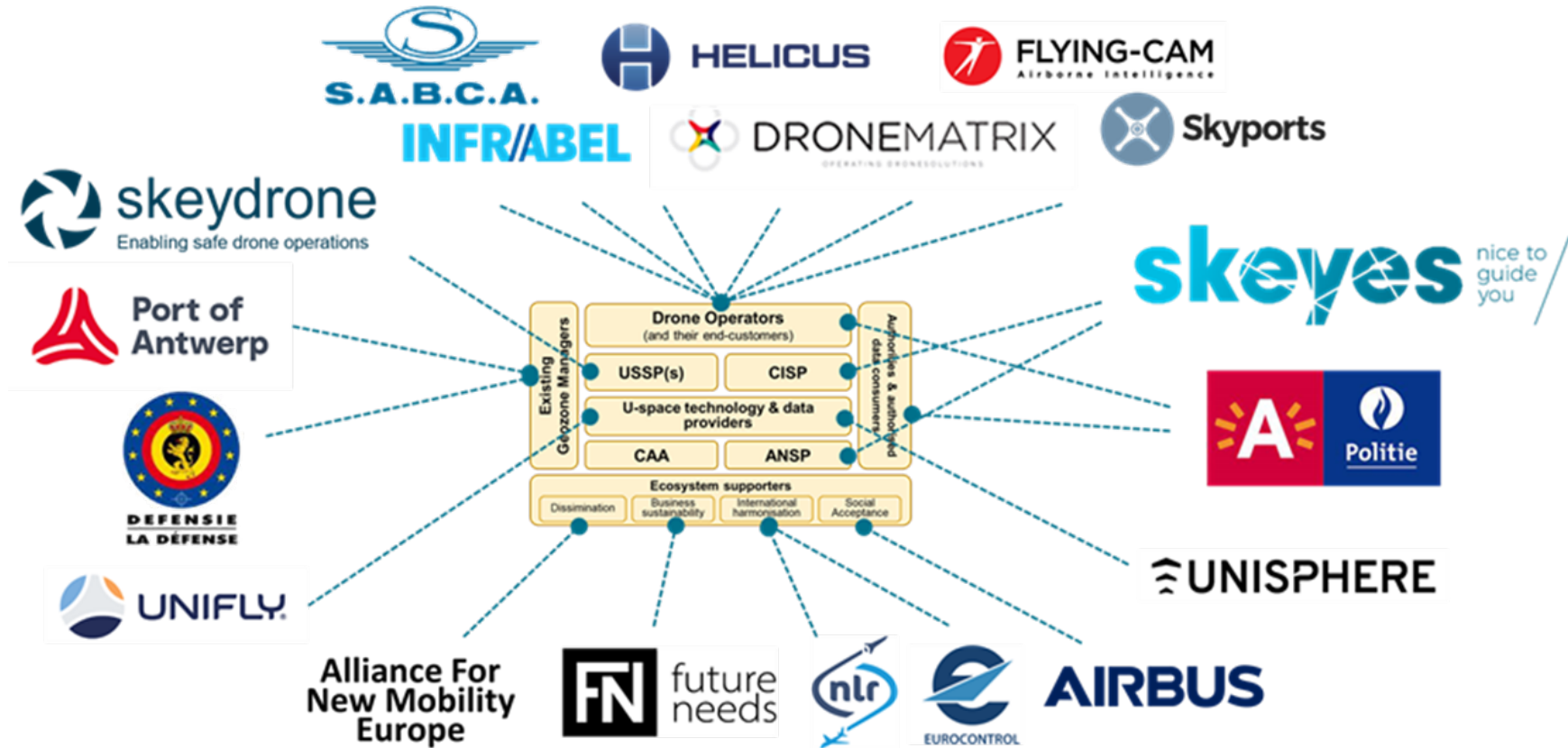


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The partners

BURDI partner mapping in U-space landscape



The Advisory Board



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Objectives

- **Objective #1**

- Implementation of U-space airspace based on :
 - ✓ Market analysis, assessing the demand for drone powered solutions based on BVLOS flights
 - ✓ An airspace risk assessment, performed in close cooperation with Civil Aviation Authorities
 - ✓ A social acceptance and multilevel governance, evaluating relevant factors

- **Objective #2**

- Demonstration of one scalable U-space reference deployment in Belgium
 - ✓ Ensuring interoperability with ATM systems
 - ✓ Enabling operation scaling of multiple mature drone use cases

BURDI project assumptions

- U-space reference design based on
 - A centralised CIS concept
 - A USSP providing U-space services in controlled and uncontrolled airspaces
 - An hybrid and integrated surveillance concept in U-space airspace (ATM and UTM systems in lower airspace)

Use cases with concrete go-to-market plan

- **Medical logistics**

- Regular/daily transport of goods between hospitals and/or Laboratories
- Urgent and prioritised liaison

- **Safety and security**

- Change in U-space airspace structure due to State operation (Defence)
- Usage of UAS in support of Police operations

- **Infrastructure inspections**

- Railways, electric wires or pipeline inspections
- Port's infrastructures and environmental surveillance



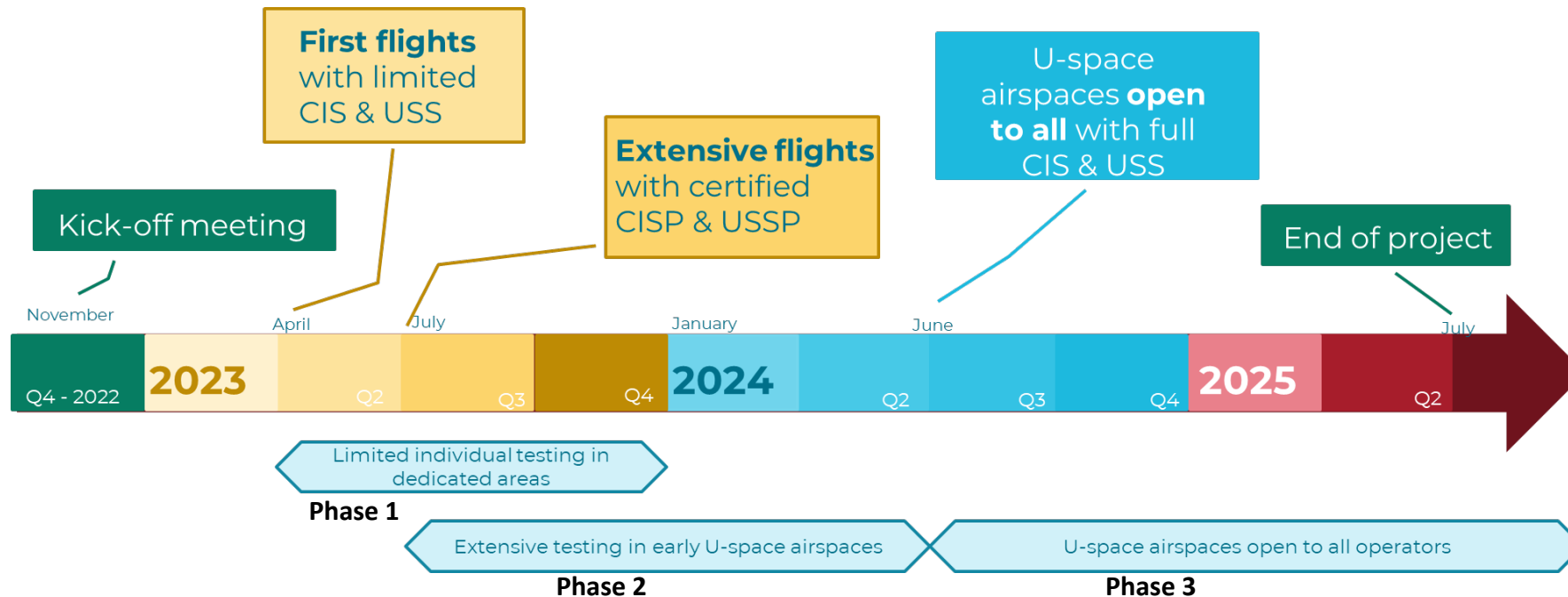
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BURDI project timing (33 months)

- Incremental approach

- **PHASE 1** : Early adopter areas, **first flights** limited to BURDI's drone operators
- **PHASE 2** : Early adopter areas, **extensive flights** gradually open to other drone operators
- **PHASE 3** : U-space airspaces **open to all** drone operators for additional data gathering



Expected results

- Implementation of U-space airspace as a reference for future deployment in EU
- Proposition of standards and regulation evolutions/improvements
- Market analysis, risk assessment and multilevel governance of U-space implementation

Contact details

- A dedicated website to come
- Coordinator of the project :



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