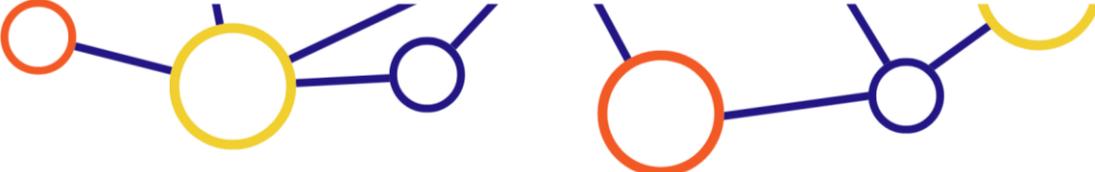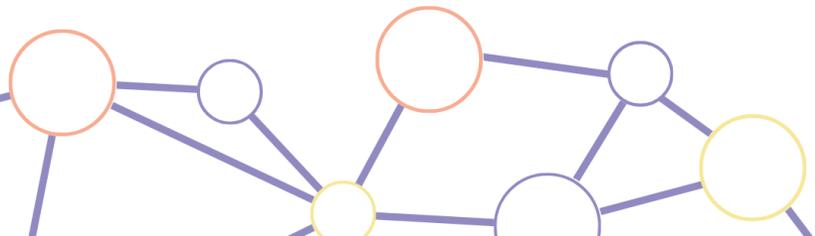# Collaris2

**COLLaborative network on unmanned AeRIal Systems (UAS)
and their applications in the field of disaster response**

UCPM-2024-KAPP Kick-off meeting, Brussels, 13 March 2024

Anna Kobierzycka, Jakub Ryzenko – COLLARIS Network, CBK PAN

CBK · DCNAustria · Kαῖος · REPUBLIC OF CYPRUS CIVIL DEFENCE FORCE · VALABRE · NIPV · KeMeA · UNIVERSITY OF SKÖVDE

During the COLLARIS1 project (2023-2024) the following observations were formulated and their validity was clearly endorsed by representatives of the civil protection user community:

- Drones, especially combined with AI solutions, are a *game changer* for crisis management activities, improving situational awareness and allowing us to react faster and better to emergencies.

- Today only a fraction of available capabilities of drone technology are used operationally for rescue and crisis management. This gap will grow as many more solutions will become available in the coming 3-5 years.

- Legal and organisational obstacles represent today the main impediment for wider implementation of drone solutions addressing rescue and crisis management needs.

- In particular, implementation of air traffic management solutions enabling safe drone flights will significantly increase the use of drones for rescue and crisis management.

- The majority of civil protection stakeholders has insufficient organisational arrangements and know- how for widespread and fully efficient use of drones in their operations.
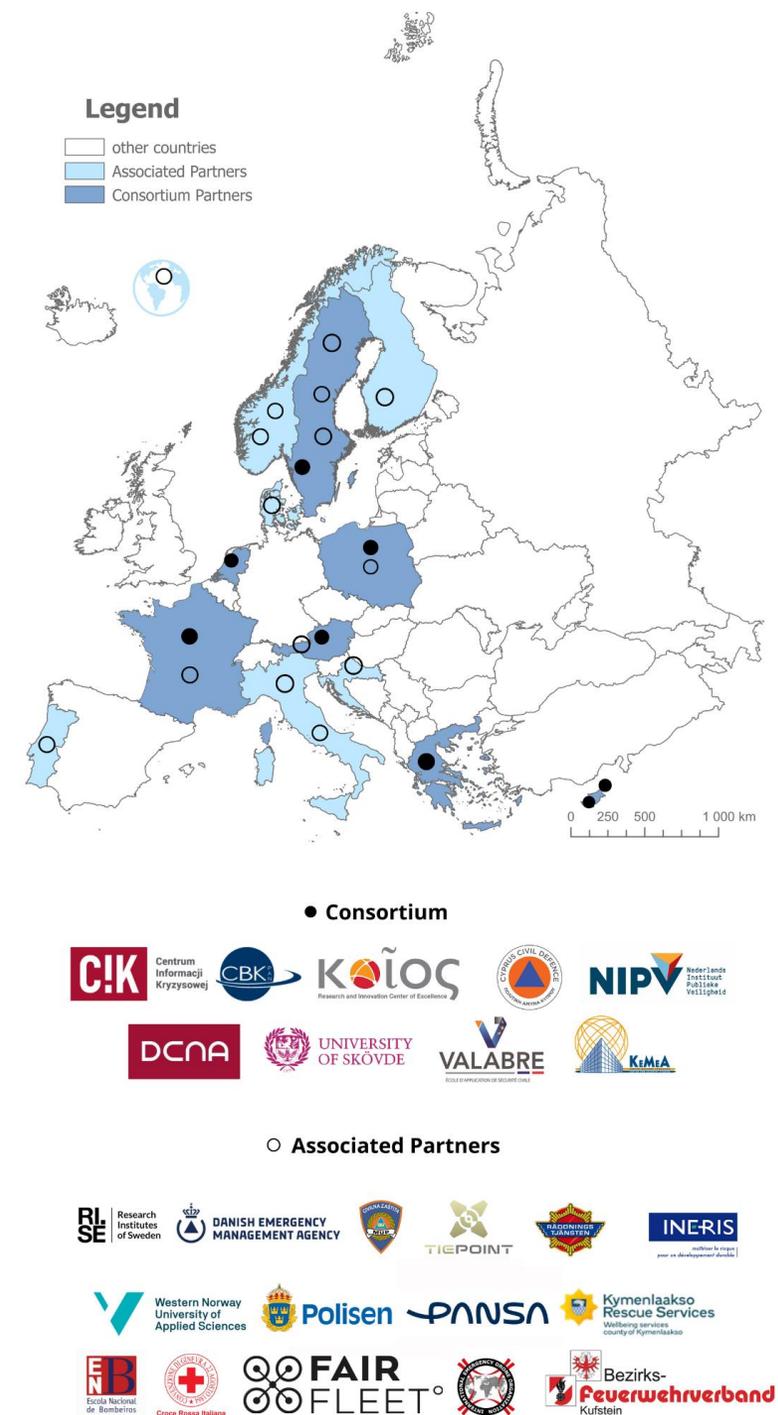
What is COLLARIS Network?

- Network of stakeholders interested in use of UAS for crisis management, first response and related applications

- A long-lasting focal point facilitating adoption and effective use of UAS among civil protection community

- A sustainable European network of scientific, engineering and end-user's expertise related to UAS in civil protection and disaster response

- Distributed knowledge centre focused on use of UAS in civil protection

- Platform for discussion about future of UAS in civil protection

What is COLLARIS Network?

- The core team of the project comes from 7 different EU Member States (Poland, Sweden, France, Austria, Cyprus, plus Greece and the Netherlands).

- 15 associated partners + IEDO = direct links with 13 EU MS

- Various kinds of entities: R&D institutes, universities, rescue services and other crisis management institutions, police, air traffic control agencies, government institutions

- CERIS, DRS Responder Technology Cluster of Projects, DIREKTION project

Legend
- other countries
- Associated Partners
- Consortium Partners

● Consortium

○ Associated Partners

COLLARIS 2025-26 Scope of work

Observatory – analysis of operational practices in 6 thematic areas:

- Drones as first on Scene – University of Skovde,
- Drones for wildfires – Valabre
- Autonomous Operations – NIPV
- Drones for floods – CBK PAN
- Mapping (Pre, During, Post Disaster) – KIOS
- Coordination of UAV and manned flights in crisis operations – CBK PAN

Support for uptake of lessons learnt:

- Overview and selection of the most interesting and/or popular operational use cases for drones,
- General ATM recommendations reflecting crisis management sector needs and expectations,
- Structured overview of national drone regulations,
- Analysis of public perception of UAS in Europe in general and more indepth for 3 European countries,
- Dedicated report on context of usage of UAS in Volunteer vs. Professional Organizations.

Trials (2 x PL, SE, CY, NL) – if possible synchronized with larger crisis management exercises, details tbd.

COLLARIS 2025-26 Scope of work

Individual capacity building and international cooperation:

- Organisation of Air Operations Coordinator Course, classroom setting,

- Publication of Massive Open Online Course as an e-learning,

- Release of Virtual Simulation Scenarios for Incident Commander training,

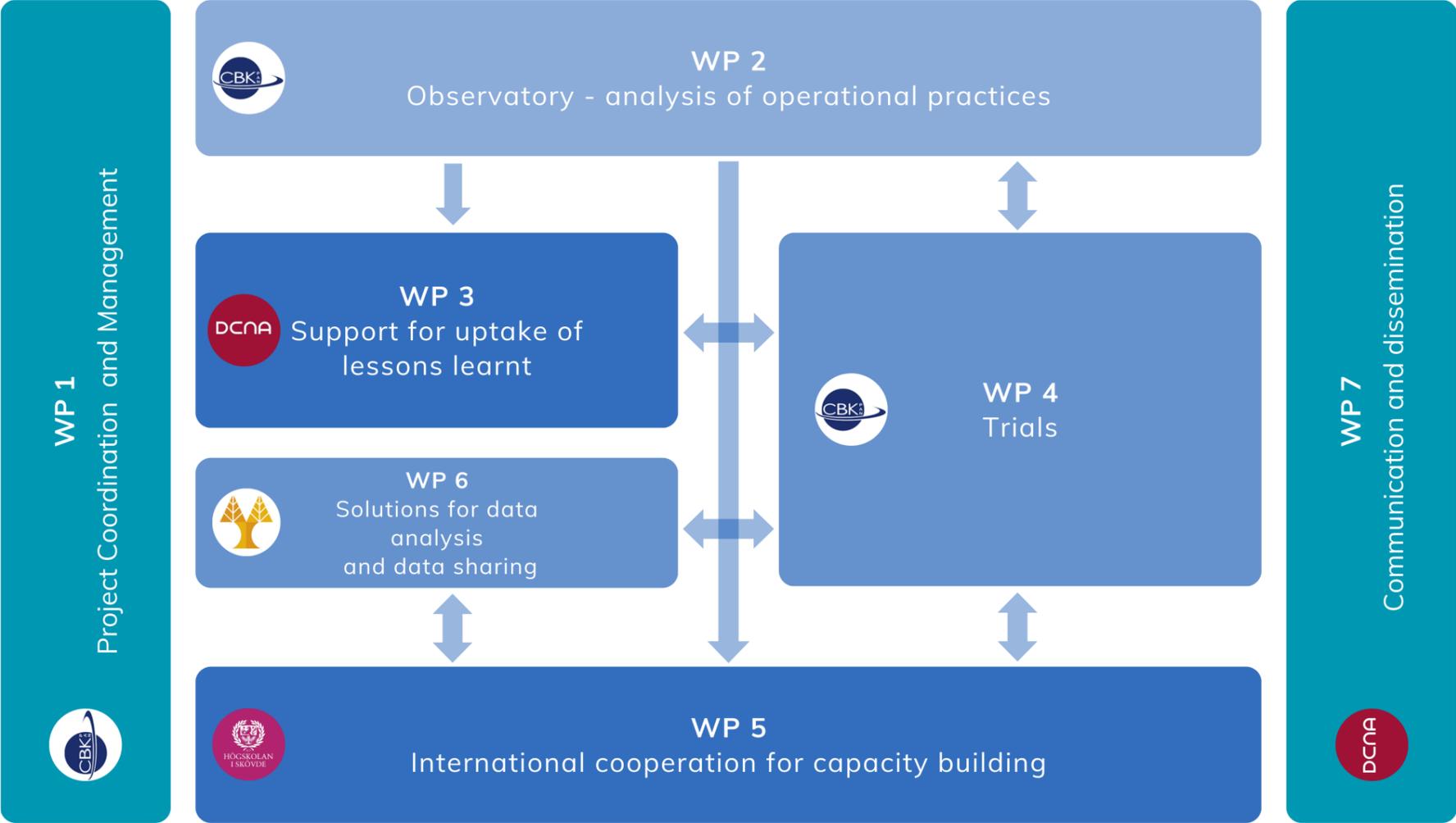- Participation in UCPM exercise by providing a short episode focused on ATM aspects (tbc.)

Data analysis and sharing to improve situational awareness:

- Recommendations for interoperability standards for solutions for data analysis and data sharing to improve situational awareness and risk analysis

- Adaptation of AIDERS AI-toolkit for DRM of critical/common risks

Communication and dissemination

- Mapping of relevant initiatives within UCPM including an evaluation of potential synergies between ongoing initiatives or incorporation of existing results

- Thematic webinars – use-cases and framework scenarios for drones, expert reports from WP3

COLLARIS2 WP Structure

WP 1 — Project Coordination and Management

WP 2 — Observatory - analysis of operational practices

WP 3 — Support for uptake of lessons learnt

WP 6 — Solutions for data analysis and data sharing

WP 4 — Trials

WP 5 — International cooperation for capacity building

WP 7 — Communication and dissemination

Stay in touch!

- **UCPKN:** https://civil-protection-knowledge-network.europa.eu/projects/collaris2
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