



WORKSHOP

EMERGENCY

MANAGEMENT
CLUSTER



Funded by
the European Union

TITLE

«Implementation of new technologies in operational activities of crisis management and civil protection services. AI, Drones, and Satellites for Real-Time Situational Awareness in Disaster Response»

The growing complexity of disaster scenarios in Europe requires stronger collaboration between research, policy, and practice to ensure emergency responders are equipped with effective and future-ready solutions.

Against this background, a cluster of EU-funded projects in the field of emergency management is joining forces in a dedicated online workshop to foster cross-project exchange, raise awareness of ongoing developments, and increase the visibility of policy recommendations.

About the [EMERGENCY MANAGEMENT CLUSTER](#):

The "Emergency Management Cluster" brings together four Horizon Europe projects – [UNICORN](#), [COLLARIS2](#), [DIREKTION](#) and [OVERWATCH](#) – to strengthen Europe's capacity to face climate-driven hazards and disasters. By combining Earth Observation, aerial systems, and advanced crisis data platforms, the cluster delivers innovative tools for early warning, real-time monitoring, and coordinated response.

The challenges we confront

Security



Fires Crisis
Management Victim
Search

Safety



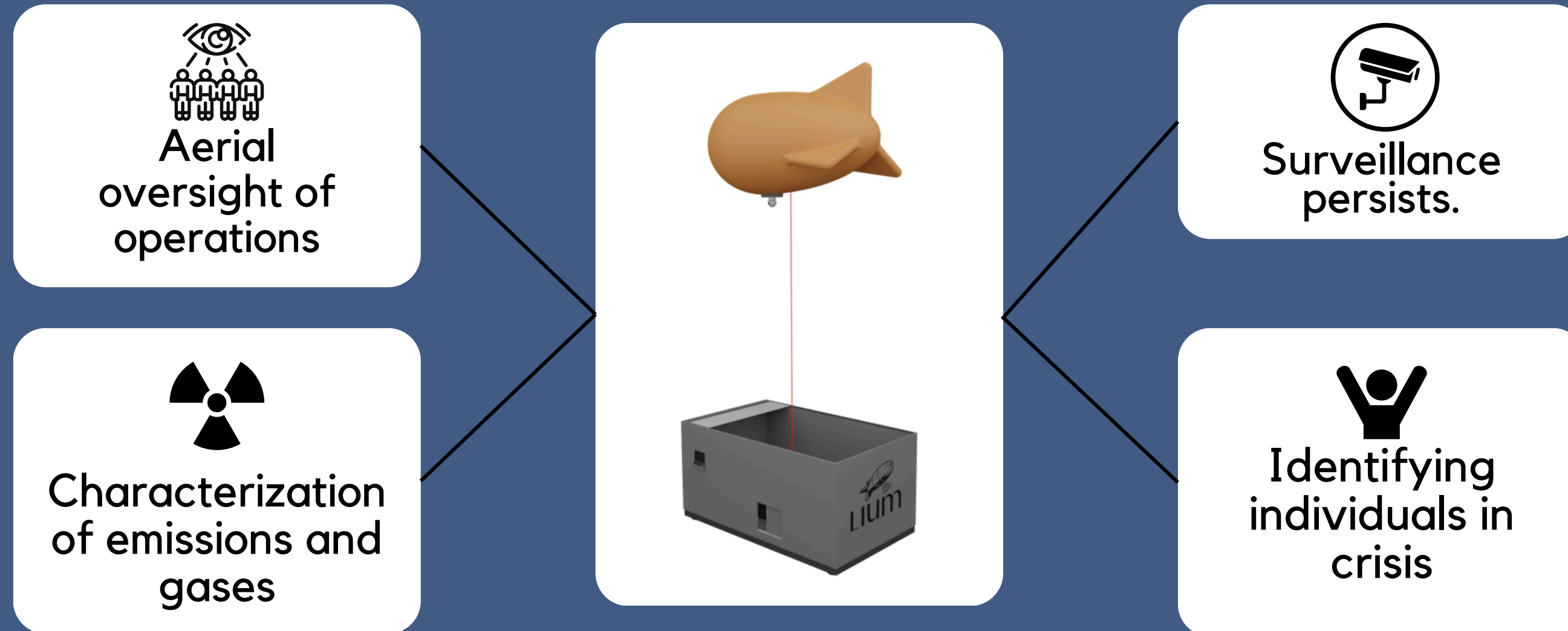
Intrusions, terrorist
threats, malicious
acts, drone threats.

Environmental and Industrial Hygiene

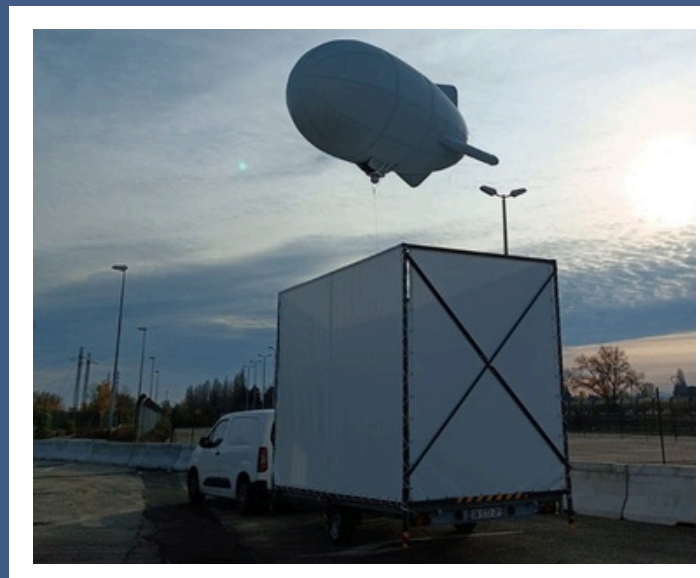


Gas leaks and
emissions
management Water
pollution mitigation

A versatile instrument



The ergonomic captive balloon.



An uncomplicated and efficient resolution

Deployment
within 10
minutes

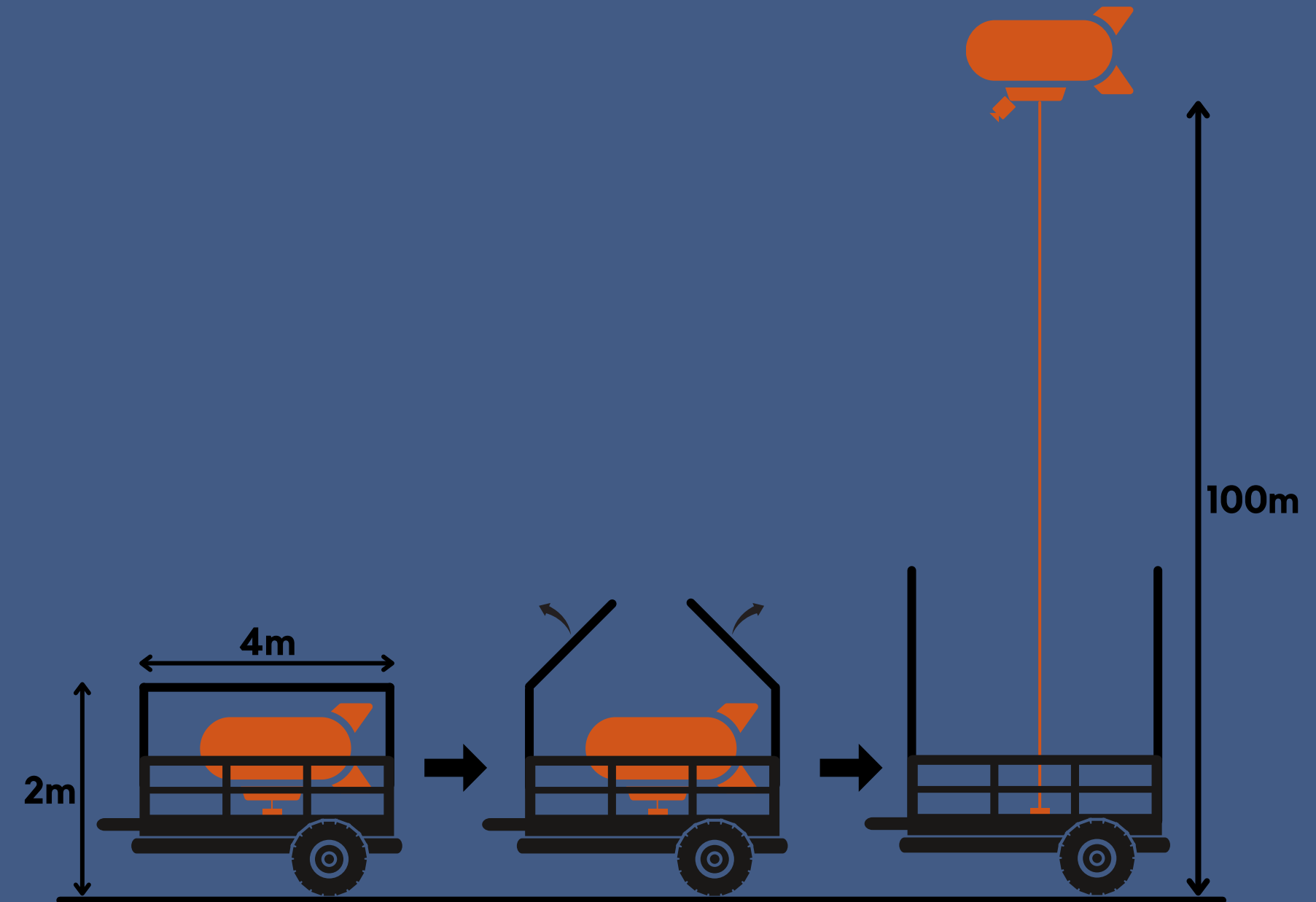
Comprehensive
visual coverage
of the site

Day/night,
thermal, and
spectral
imaging devices

Video
streaming
on a PC
or tablet

Training
included in
the proposal

No remote
operator



Positioning

Connection

Embarking on a journey

The characteristics of the solution

Maximum
altitude

100 meters

Autonomy

- Several weeks

Weather resistance

Wind: up to 70
km/h
Rain

Detection domain

- 3-kilometer radius
- 3,000 hectares
of monitored
land

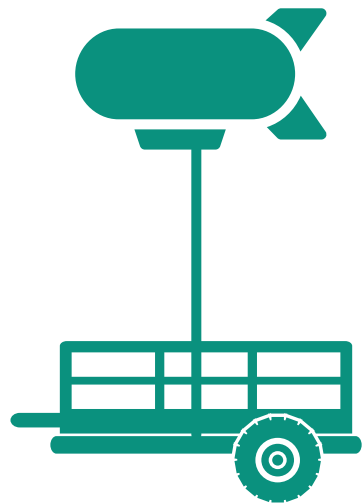


Applications

Surveillance persists.

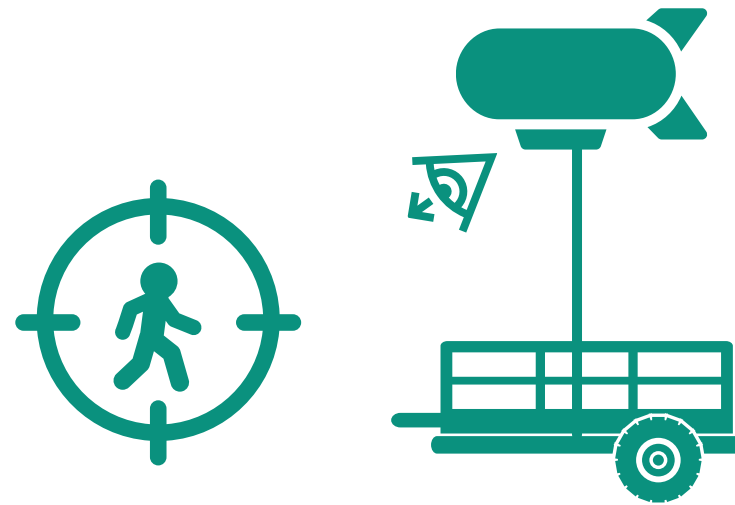
1.

Deployment



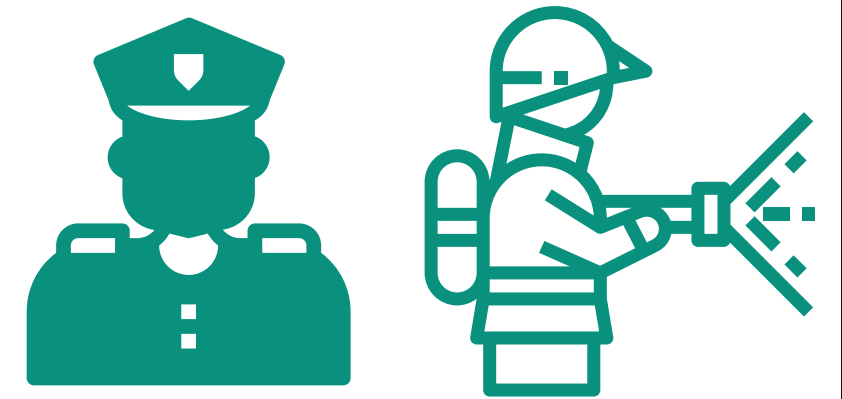
2.

**Detection
and Alert**



3.

Intervention



Applications

Crisis scenario

1.

Alert



2.

Positioning and Connectivity



3.

Deployment and Analysis



The advantages

Automation of
anomaly
identification



Reduced staffing
requirements

Enhancing communication among
stakeholders



Enhanced efficiency and
responsiveness



Increased preservation of lives
and infrastructure

Our references



World leader in
uranium enrichment



European leader
in gas



THANK YOU!

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The Overwatch logo, featuring a red circular icon with a white dot and the word "Overwatch" in red.

The UNICORN logo, with "UNICORN" in blue and a blue circular icon containing a white unicorn head.

The DIREKTION logo, featuring an orange network diagram above the word "DIREKTION" in blue, with "Disaster Resilience Knowledge Network" in smaller text below.

The Collaris2 logo, with "Collaris2" in blue and a blue circular icon containing a white drone above the "2".



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