



WORKSHOP

EMERGENCY

**MANAGEMENT
CLUSTER**



Funded by
the European Union

CamIA, Real-time detection and alert Case

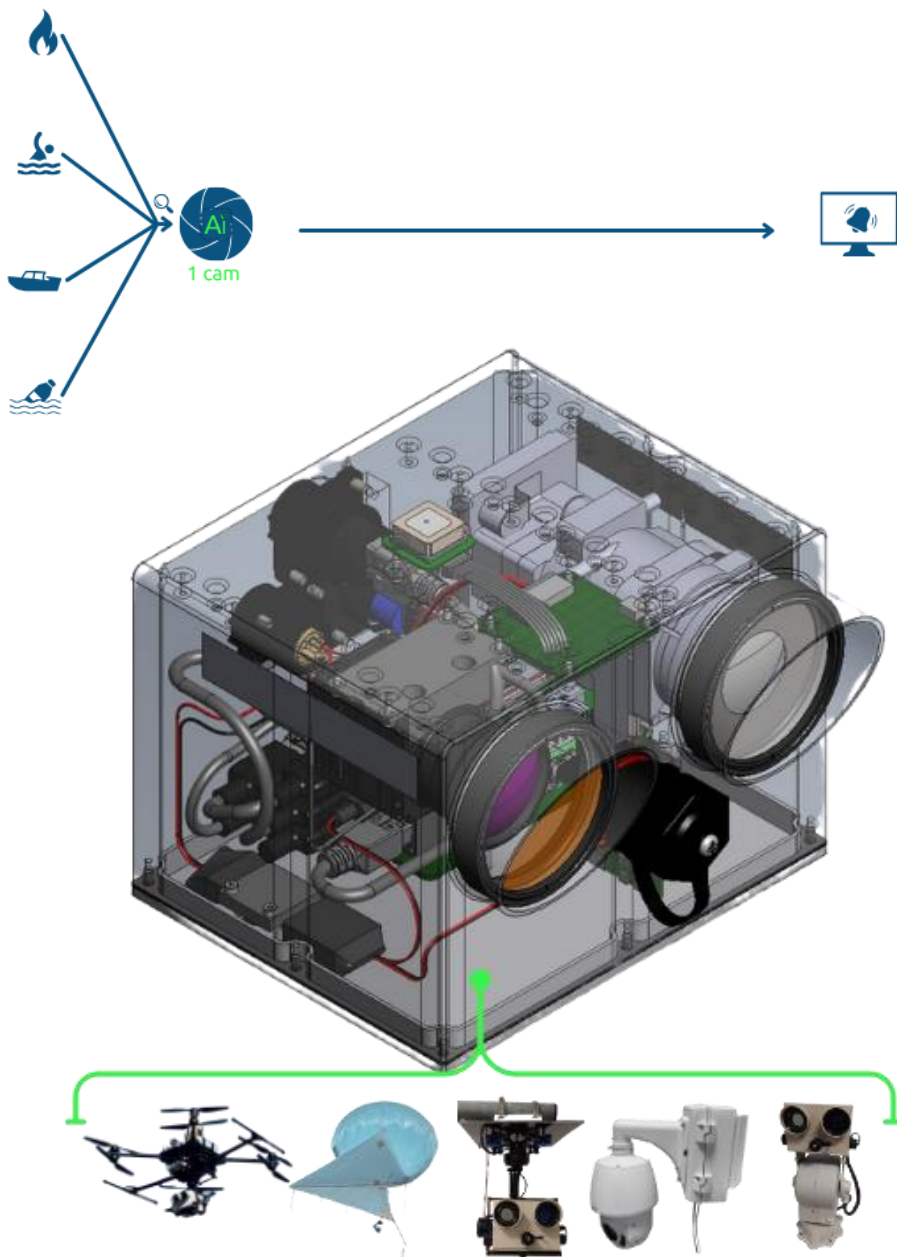
«Implementation of new technologies in operational activities of crisis management and civil protection services. AI, Drones, and Satellites for Real-Time Situational Awareness in Disaster Response»

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.



What is CamIA?

The Real-time Alert Case with Embedded AI.

- **Early detection & real-time alerts for wildfires, pollution, search & rescue**
- **Multi-use - Multi-spectral - Multi-vector**
 - Detects smoke, boats, people, vehicles, animals, pollution
 - Visible + thermal sensors
 - Works on fixed masts, drones, vehicles, aerostats (Helia)
- **Embedded AI**
 - Images inferred on-board → capability to change remotely the use case
 - GDPR-by-design : only alert images & geolocation transmitted
- **HMI**
 - Alerts and useful parameters received on the AzurlIA API
 - Remote control to perform health check, change model, etc.

Why it matters for Crisis Management

- **Ultra-early wildfire detection validated** (<5mn) in France (06, 42) and Thailand (DART)
- **Works even in remote areas without connectivity**
LTE / 4G / 5G / Satellite (soon)
- **Low energy consumption**
 - Frugal AI onboard instead of datacenter processing
 - Power supply possible with battery, solar pannel
- CamIA is quickly deployable everywhere on the Earth including sea

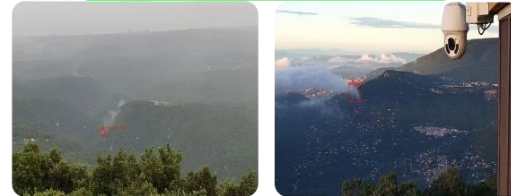
Considerable detection rate even on very long distance outbreak (up to 20km)



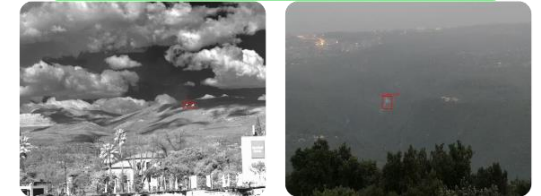
Detections are efficient even in conditions of reduced visibility



Very few False Positives (less than per day per camera on patrol at 50% confidence)



"Dark night" detection requires our CamIA with IR bands to detect the heat of the fire



Impact & Scalability

Operational Impact

- Early alert → Faster response → reduced environmental & economic damage
- Improves coverage of large or inaccessible areas
- Quickly deployed and easy to use for first responders in many sectors



Scalability

- Multi-mission : wildfire, pollution, illegal dumping, SAR at sea, floods
- European components, repairable design, low-carbon in-house developed AI

A practical tool for crisis units

- One portable Case = real-time situational awareness, anywhere
- Supports decision-making with verified, geolocated alerts



THANK YOU!

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 **Overwatch**

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DIREKTION
Disaster Resilience Knowledge Network


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