



# Falco



The new frontier  
of monitoring.



## **Digital engineering for sustainable mobility**

We are leaders in the development and integration of Intelligent Transport Systems solutions and Autostrade per l'Italia's centre of excellence for research and technological innovation.



# Innovation takes flight

**FALCO is a platform for monitoring traffic, infrastructure and systems,** delivered as-a-service and based on remotely piloted drones transmitting real-time video streams to control centres.

## ▶ See further. Act faster.

FALCO increases observation capability and accelerates response to events.



### **Extend**

visual coverage of strategic areas.



### **Reduce**

detection and intervention times.



### **Improve**

safety and operational efficiency.



### **Identify**

potential issues promptly through AI-powered video analytics.

## ▶ One system, infinite applications.

From motorway networks to industrial plants, from construction sites to agricultural sites, FALCO adapts to any operational scenario with the same level of precision.



### **Monitor**

roads, infrastructure, production facilities and hydrogeological risk areas.



### **Patrol**

sensitive areas.



### **Oversee**

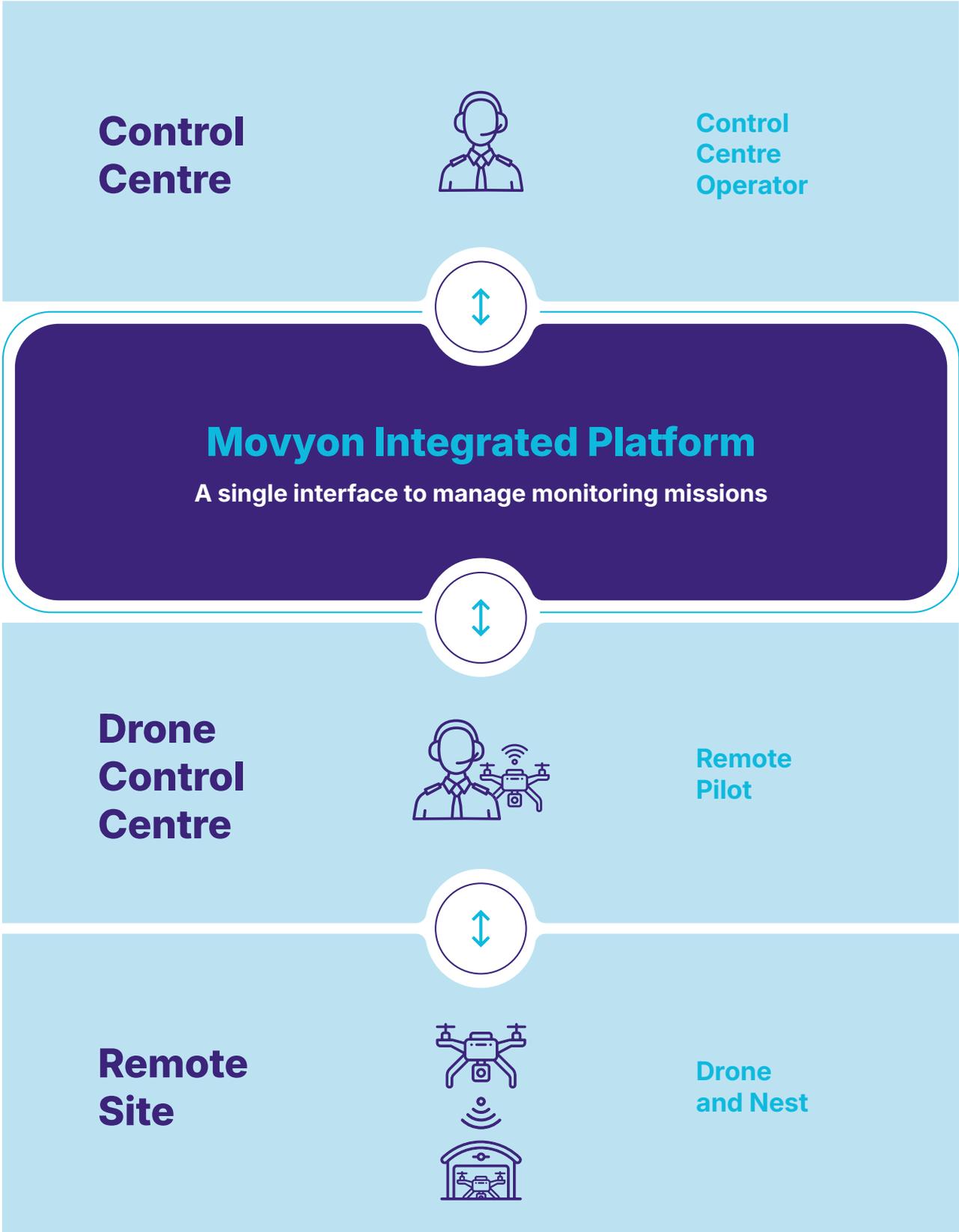
construction site safety.

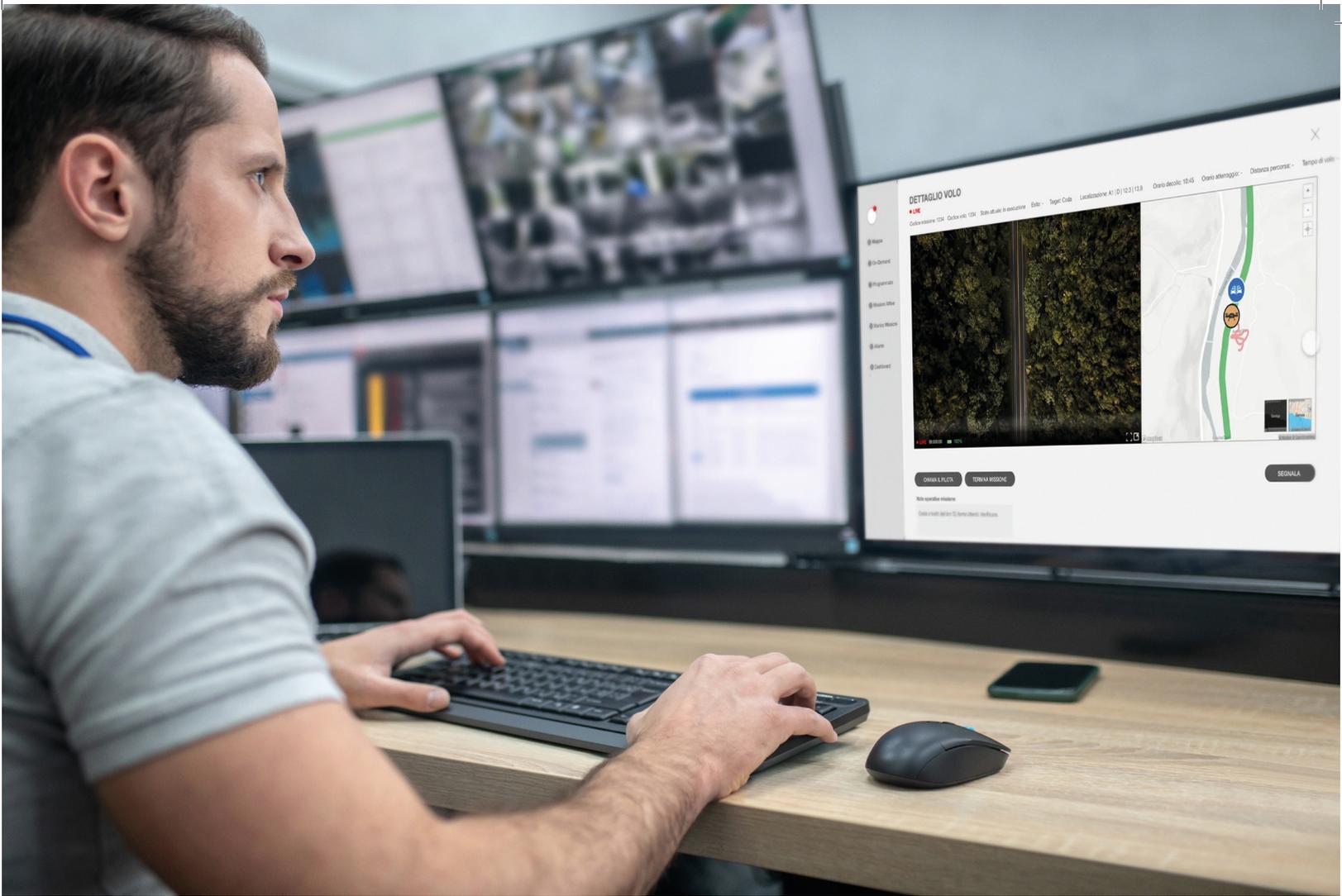


### **Map and analyse**

agricultural land.

# System architecture

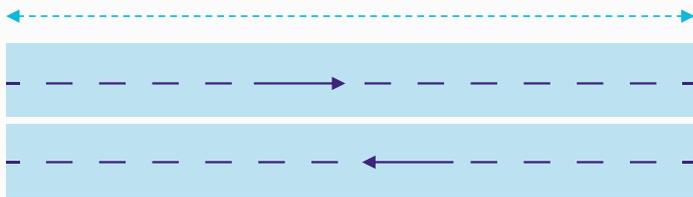




# Operating modes

## Planned missions

Systematic data acquisition.



**Automated flights for periodic, scheduled inspections.**

The drone follows the same route, at the same times and with the same camera framing, ensuring consistent, comparable and always up-to-date insights.

## On-demand missions

Readiness that responds to the unexpected.

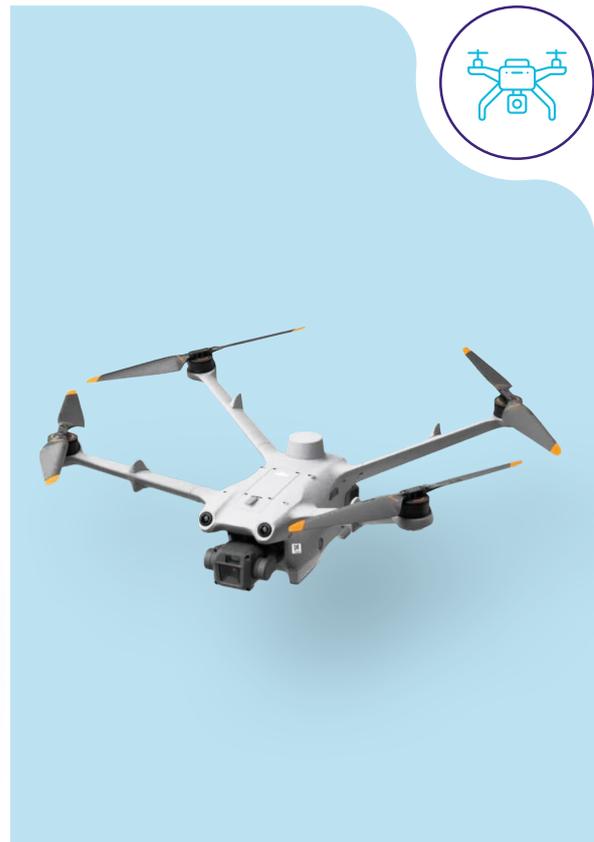


**Rapid activation for urgent or specific situations.**

The drone activates within moments to provide images, analysis and real-time operational support.



**Nest**



**Drone**

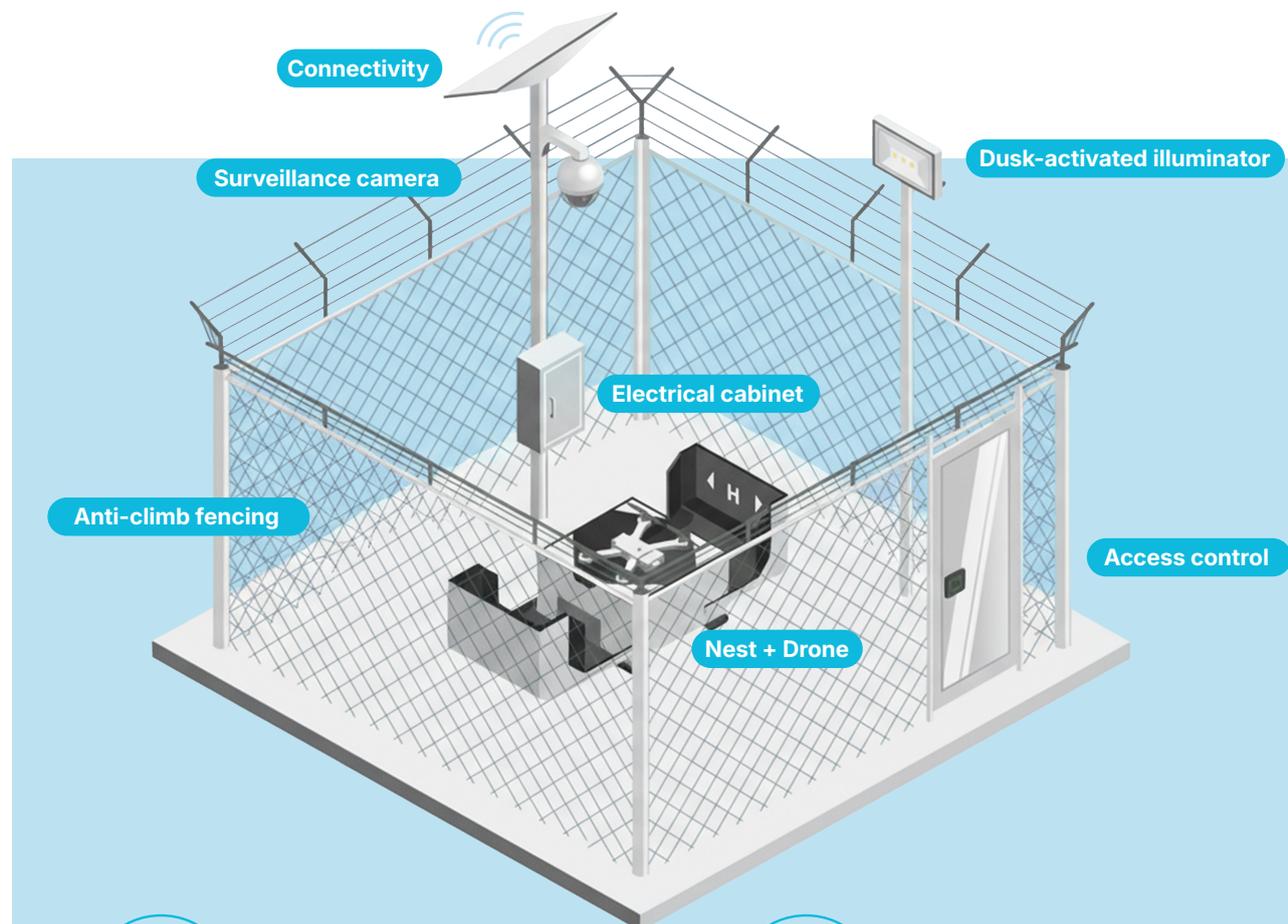
# Drone-in-a-box technology

**An autonomous system combining engineering, intelligence and operational continuity.**

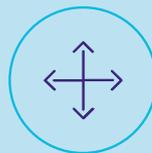
FALCO's technological core represents today the highest standard available on the market. An integrated solution that enables the drone to take off, land, recharge and transmit data in complete autonomy. An infrastructure designed to be compact, smart, flight-ready and connected to Movyon's cloud platform.

# The installation site

The installation site is the hub of the FALCO infrastructure: a connected and secure node designed to guarantee operational continuity and maximum control at every stage of the mission.



The **video surveillance system** provides the remote pilot with contextual information useful for **managing operations** and **plant safety**.



The site provides a **4 × 4 metre safety area** for drone take-off and landing, preventing access by unauthorised personnel.



Anti-climb fencing, access control, dusk-activated illuminator and the environmental monitoring system make **flight operations reliable and safe**, ensuring mission continuity.



Operational continuity of the Falco system is ensured by **cellular and/or satellite connectivity** available at each installation site and requires only a power supply to operate.



**An end-  
to-end  
solution**

# Integrated service

Movyon offers FALCO as an integrated service **supporting the customer at every stage:** from installation site design to integration with existing systems, from maintenance to operational management.

**FALCO is available as-a-service**, combining technology and operations in a single solution. The service is tailored to each customer's operational needs, with a fee that can be adjusted based on:



**Support level**



**Number of installed sites**



**Service duration**

LEVEL

**Silver**



**Guaranteed service  
7 days a week,  
16 hours/day**

LEVEL

**Gold**



**Guaranteed service  
7 days a week,  
24 hours/day**

LEVEL

**Platinum**



**Simultaneous flights across multiple nests\***

**Guaranteed service  
7 days a week,  
24 hours/day**

\*In compliance with applicable regulatory constraints.

# What the FALCO solution includes

Each component of the system is designed to provide the customer with a solution combining **technical expertise, ongoing support, security and operational flexibility.**



## Authorisation and insurance

**Ready-to-flight** system with **LUC certification** valid across Europe and dedicated insurance coverage for flight equipment.



## Equipment provided on loan (commodatum)

Supply of all hardware components — **drone, nest, router, surveillance camera and dusk-activated illuminator** — ready to use and integrated into the FALCO system.



## Design

**Support** in defining and **selecting** installation sites, with complete detailed design.



## AI modules

Option to provide **additional capabilities** for automated analytics aligned with the customer's application requirements.



## Maintenance

**Scheduled routine and extraordinary** interventions to ensure full efficiency of field equipment.



## Back-office

**Centralised management and continuous support** to ensure service continuity.



**With FALCO, Movyon brings  
its experience in intelligent  
infrastructure management into  
a new dimension: autonomous  
aerial monitoring.**



A natural evolution of field-proven know-how, turning technology, data and vision into practical tools to improve safety and efficiency.

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