

HIGHTEK



Delivering Mission Critical Services

www.hightek.it

Team



CEO

Francesco De Vivo [in](#)

PhD Aerospace Engineering
R&D and Avionic Product Development



Business Development

Andrea Pisoni [in](#)

Aerospace Engineer, MBA London Business
School, Business Dev. IMCI+, EMV Capital



Scientific & EASA Certification Advisor

Manuela Battipede [in](#)

Aerospace Eng. Prof. Politecnico di Torino
EASA and FAA Prof. National Test Pilot School,
USA, Flight Test Engineer TPS



StartUp Incubator
012 Factory



Shareholder

Alfa Bit Omega Srl

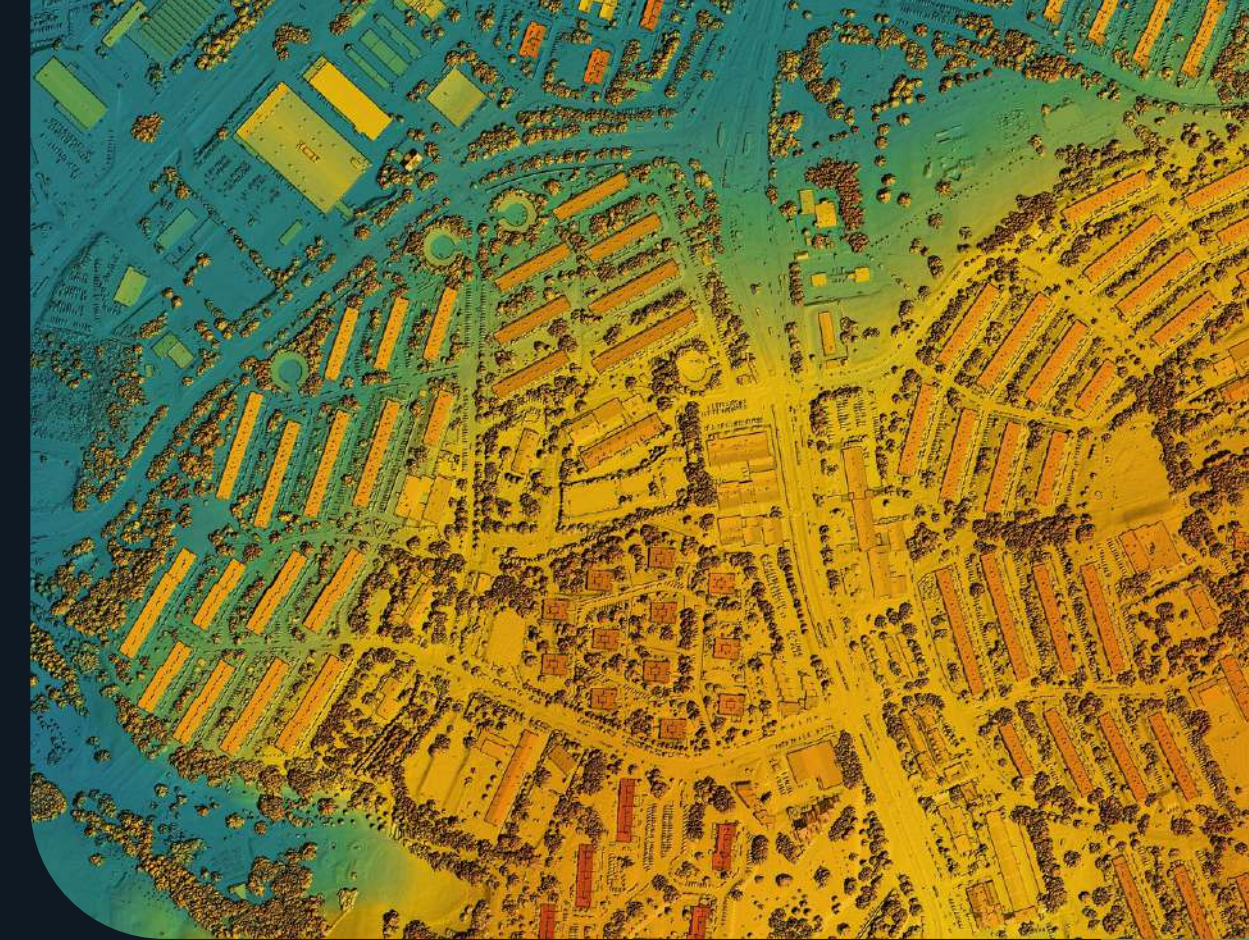
Telecommunication System, Cloud Hosting
and ICT Services

Technological & Commercial Partners

RUAG



ruag.ch tps-group.it



What We Do

**Development of Multispectral
Camera-Based and IoT Sensors**

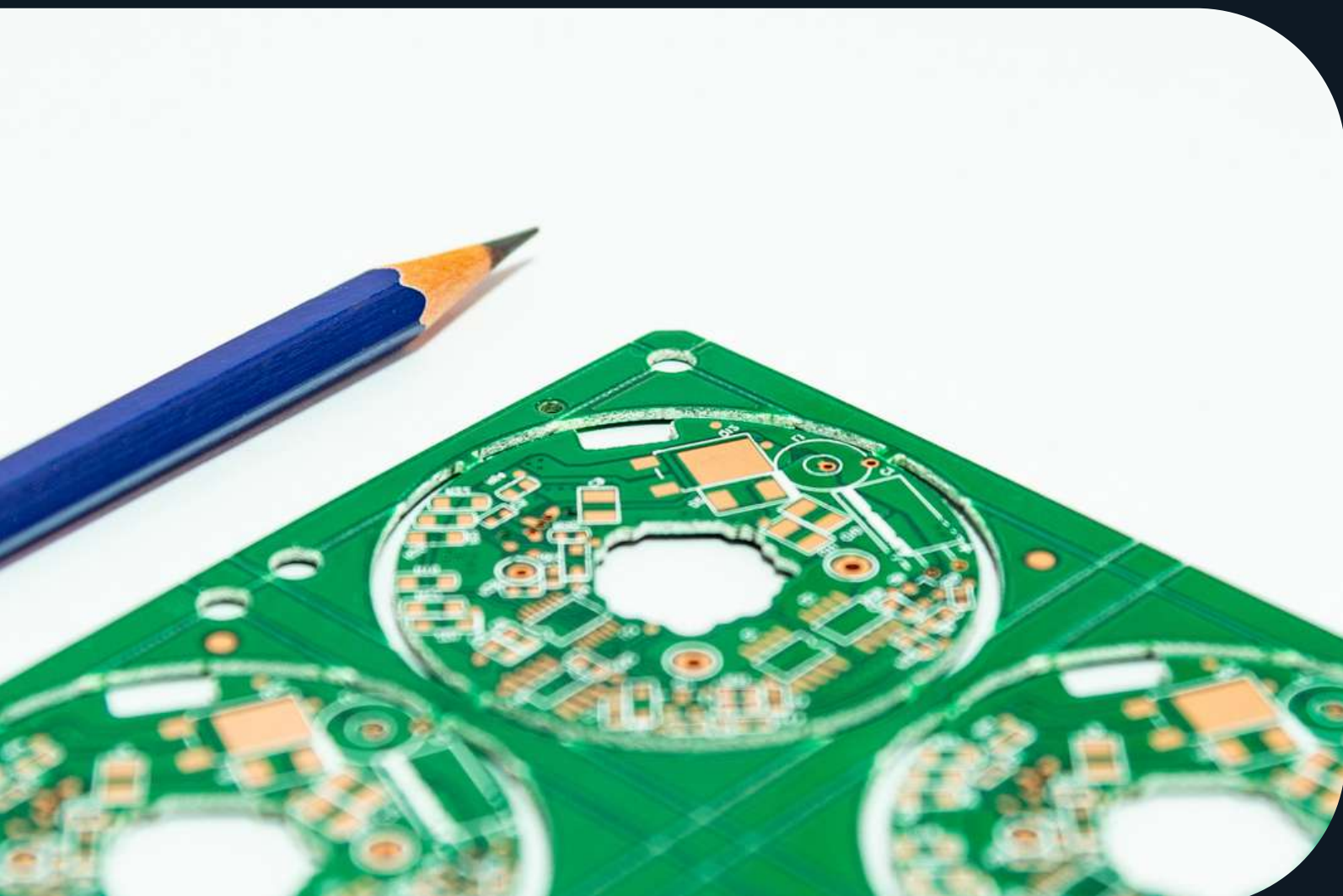
**Aerial Inspection
and Distributed
Monitoring**

**Real-Time
Geospatial Data
Mapping**



What We Do

3D CAD Design of Industrial and Aerospace components. 3D printing and CNC production



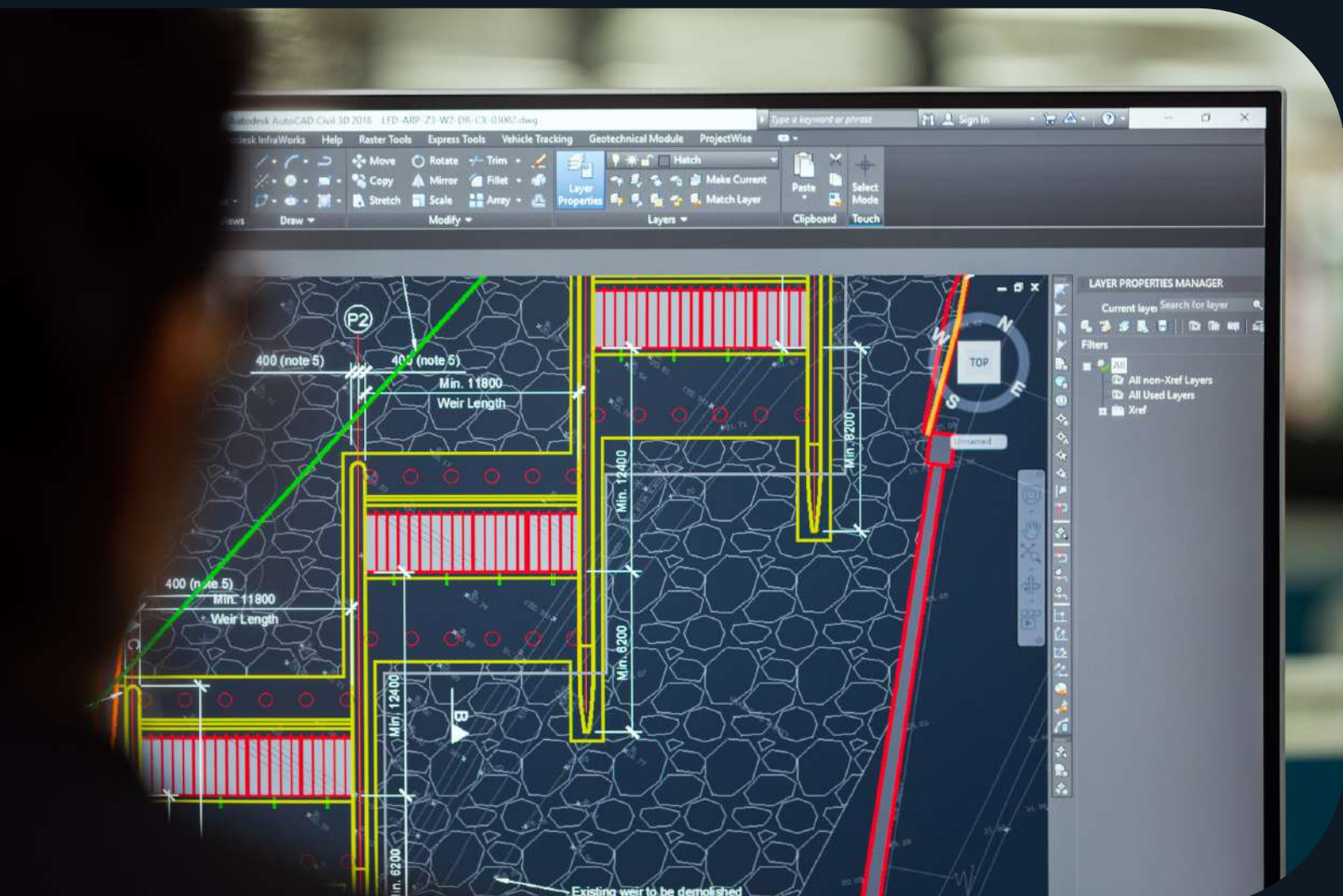
Custom FPC/Rigid-Flex PCB design

Aerospace and Military Wire Harness Design and Assembly



What We Do

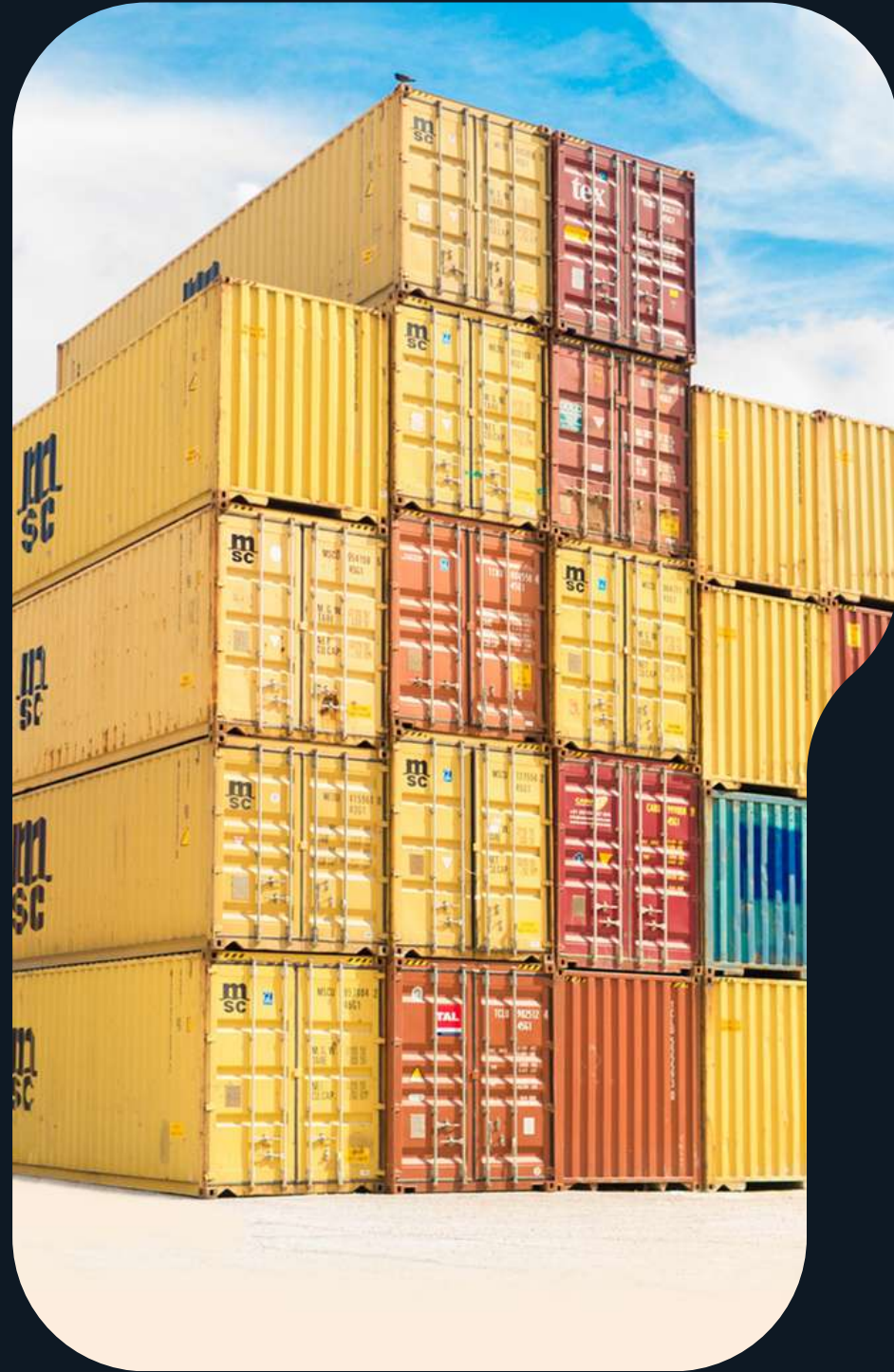
High-Performing GPU-Based Image Processing for Real-Time Environmental and Infrastructural Inspection



AI software for Automatic Problem Diagnostic and Alerting

Advanced Data Analytics for Predictive Maintenance and Proactive Forecasting

Logistics



**Oil & Gas
Power Grid**



Market

**Aerospace
& Defense**



Civil Protection



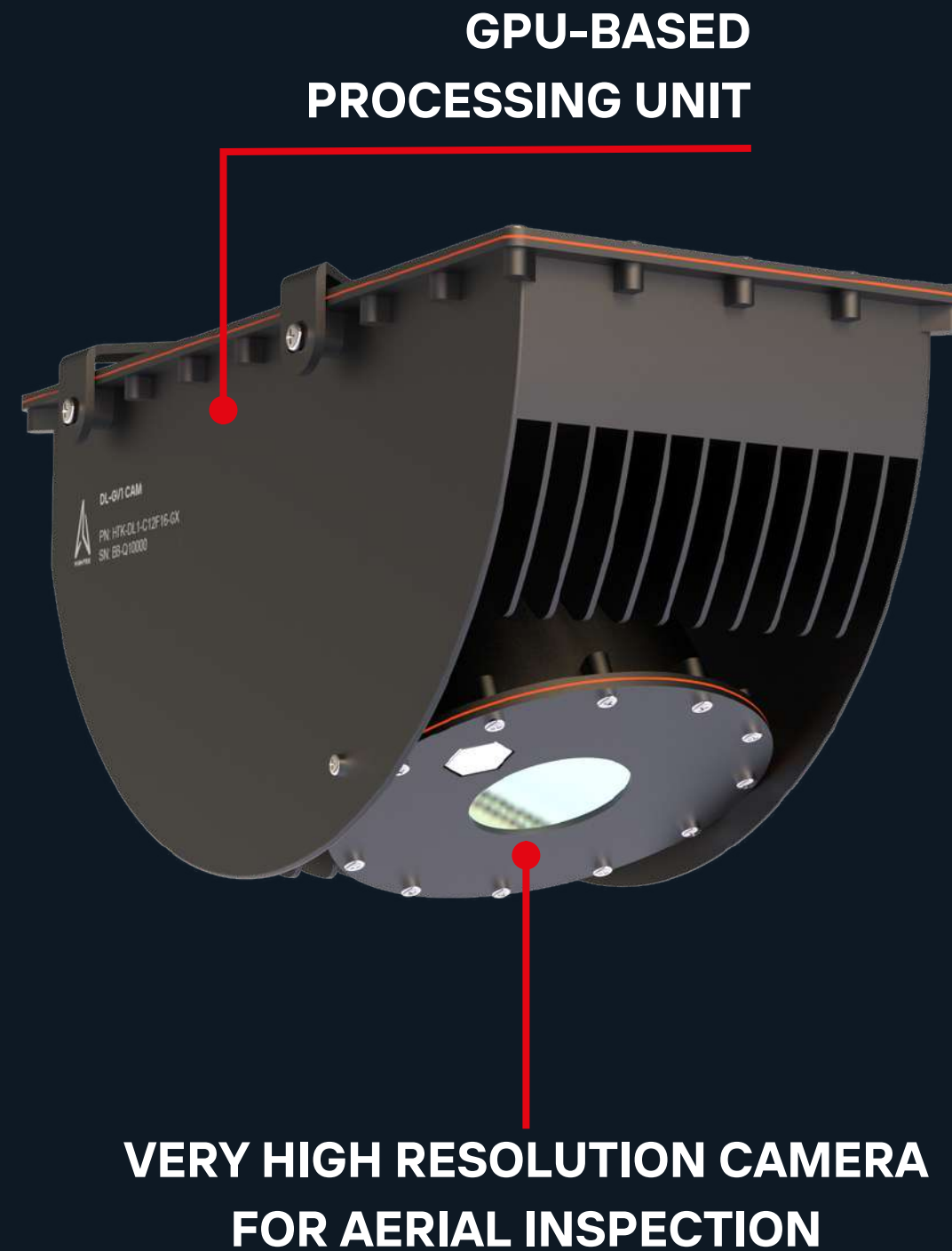
Technology

Q.SYSTEM is a Proprietary Technology developed to automatically acquire, geolocate, transmit and analyze complex aggregated data. Its primary goal is to exploit data content to provide stakeholders with real-time ready to use critical information



Technology

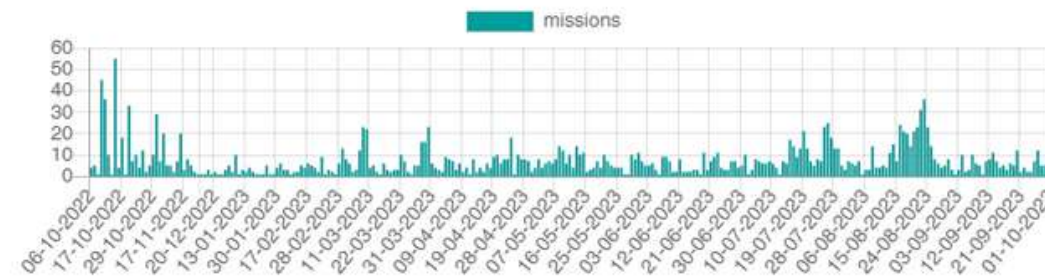
Q.FLY and **DL-GV1** Camera are Hightek's avionic sensors installed on aircraft for aerial inspections and mission intelligence. They offer support to pilots and stream real-time data to **Q.SYSTEM** for on-ground risk assessment



Technology

Q.WEB is a proprietary web-based platform that provides direct access to real-time analyzed data from **Q.SYSTEM**. Its primary goal is to increase situational awareness, make data accessible everywhere and save time for manual data processing and mapping

Mission list



From: Da To: A Select a period Filter
Aircraft Alias Apply

Calendar navigation showing days from Fri 29 Sep to Wed 11 Oct. The current day, Thu 5 Oct, is highlighted and shows 3 missions.

Show 10 entries Search:

Mission number	Aircraft	Alias	Data	Company	Images	Videos	Drop	Duration (Minutes)
1696499656	D-HFBI	MI-41	05-10-2023 09:54:16	GES Canarias	17	3	3	--
1696495120	EC-NDF	MI-21	05-10-2023 08:38:40	GES Canarias	0	2	0	--
1696492920	D-HAFL	MI-71	05-10-2023 08:02:00	GES Canarias	1	0	0	--

Showing 1 to 3 of 3 entries Previous 1 Next

Aerial Firefighting

Q.SYSTEM used to optimize flight activities and aerial firefighting operations. 4G/LTE and SAT technology are used to share real-time aerial data with Control Room commanders and field personnel to improve coordination and emergency response

WILDFIRE DETECTION UNDER CANOPY



AUTOMATIC SMOKE SUPPRESSION



DETECTION OF EFFECTIVE FIRE FRONT



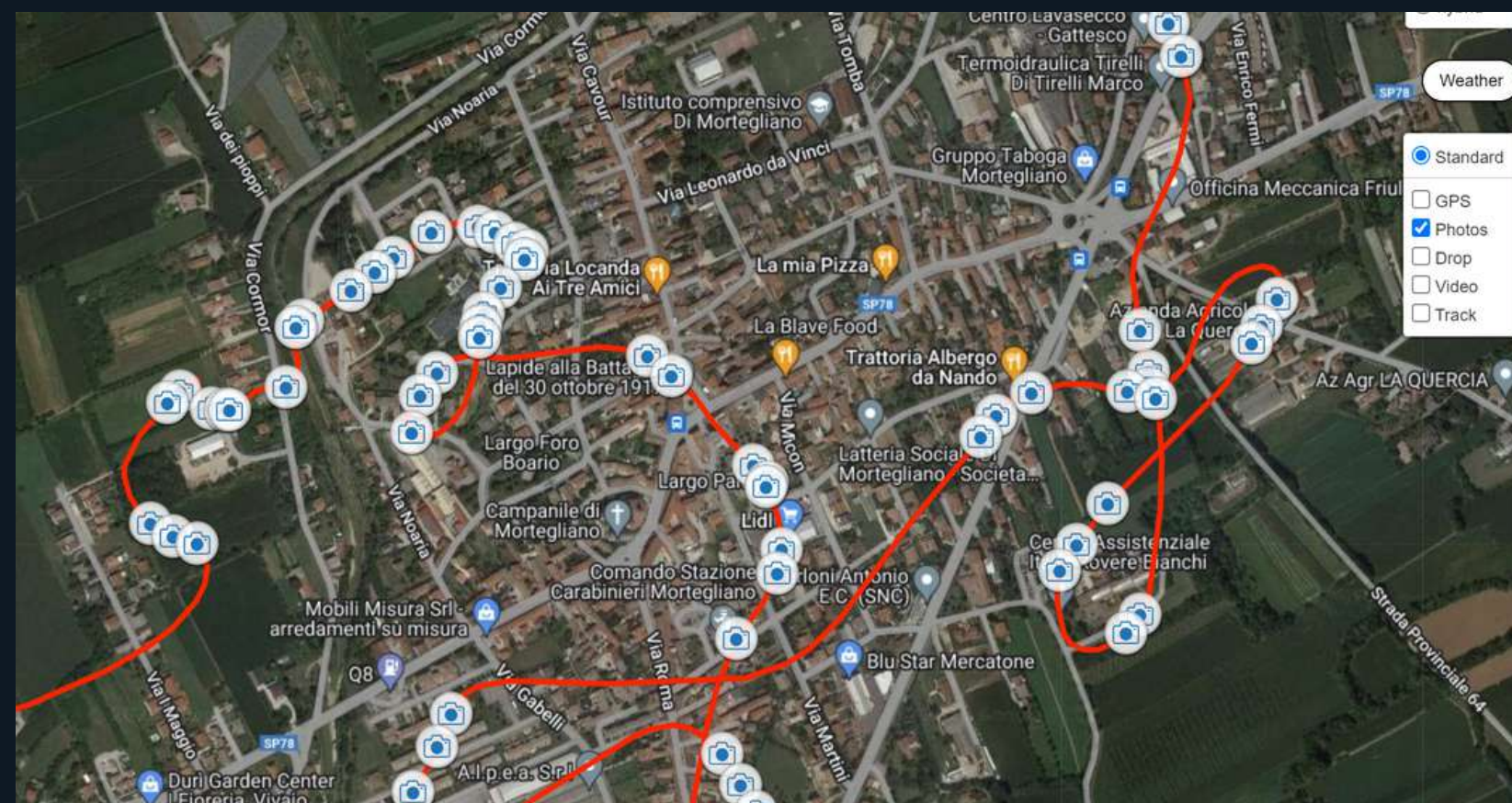
HOT SPOT DETECTION IN POST-FIRE INSPECT.





Search & Rescue

Q.FLY is used to speed up Search & Rescue operations. High resolution multispectral cameras and GPU-based AI algorithms are used to support searching operation. Any available localization data or search area is shared in real-time with pilot from **Q.WEB**, accelerating search time. A nadir camera module provides a clear view underneath the helicopters without blind spots of classical rear windows.



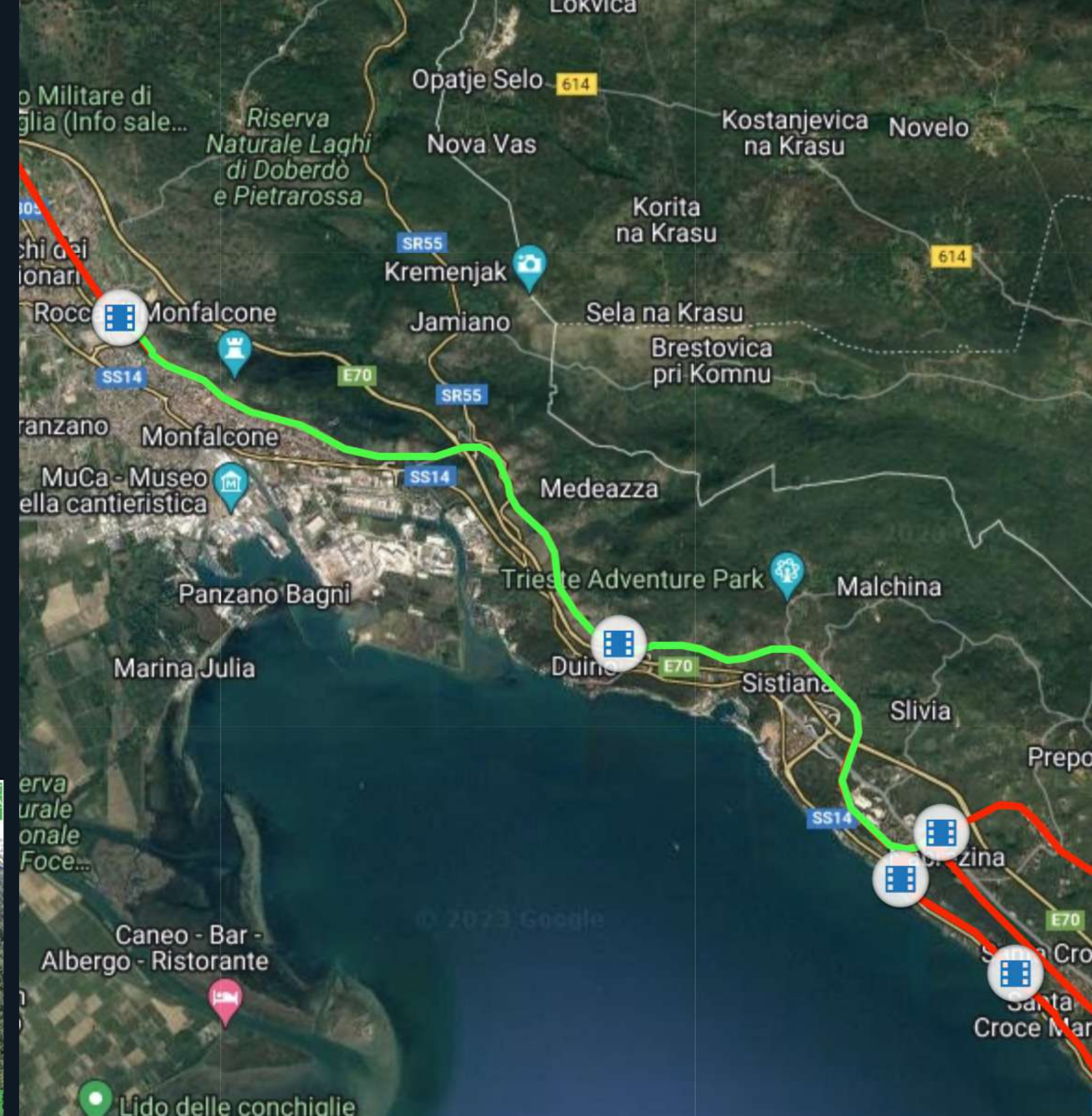
Flooding Damage Assessment and automatic feature classification

Q.SYSTEM is used for post flooding damage assessment and real-time mapping of the damaged infrastructures. Each damage is automatically georeferenced and linked to photo and video on map. AI-based algorithms are used for automatic object classification and anomalies detection in infrastructures



Infrastructure Inspection

Q.SYSTEM utilized in Friuli Venezia Giulia for train rail inspection, geolocation of potential issues, and detection of obstacles, such as vegetation, along the railway line





Infrastructure Building



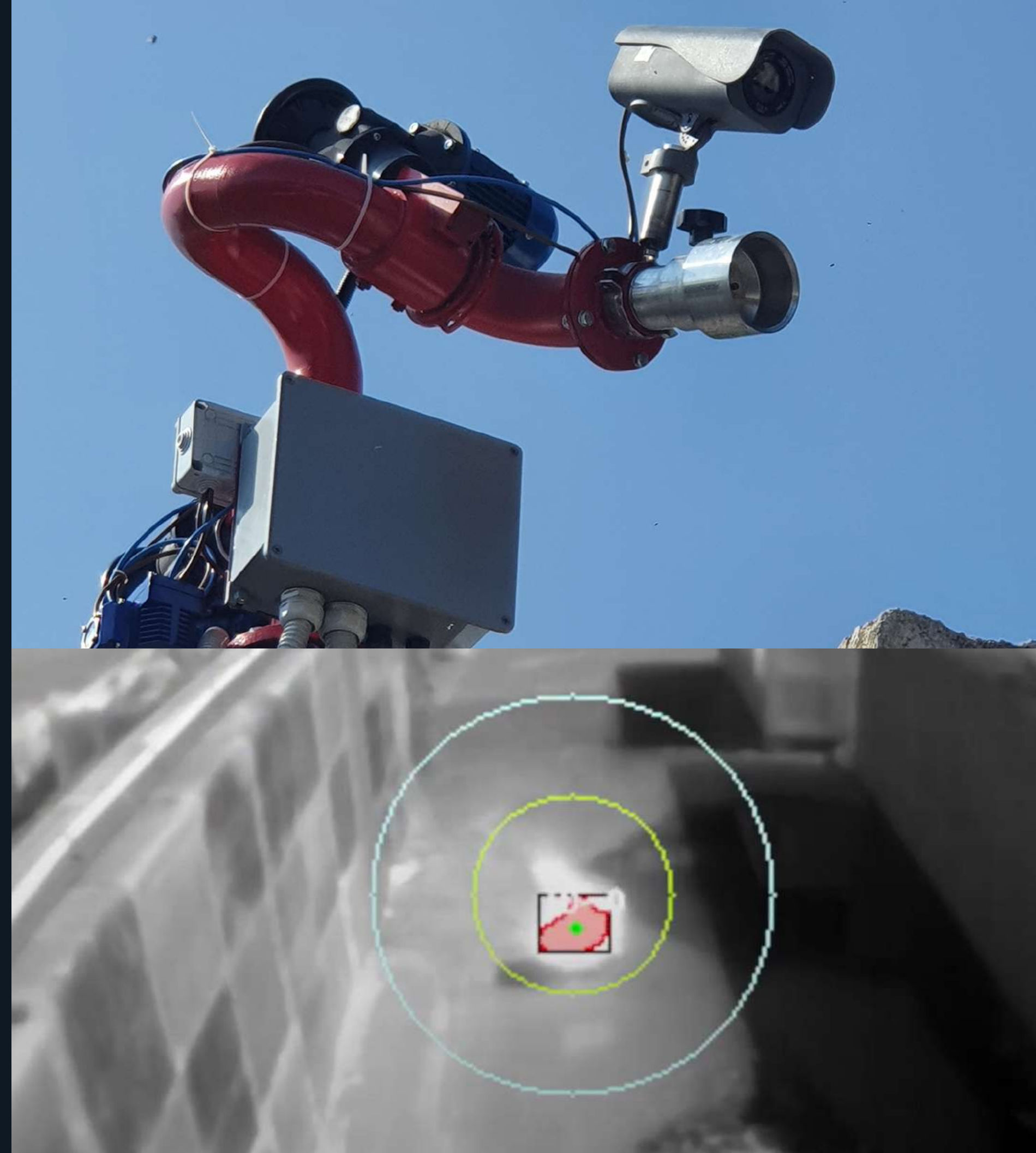
Q.SYSTEM employed to support operators during high-altitude aerial work, offshore power plant building and maintenance, precise heavy-load cargo transportation, and positioning

Industrial Plant Automatic Fire Detection and Control

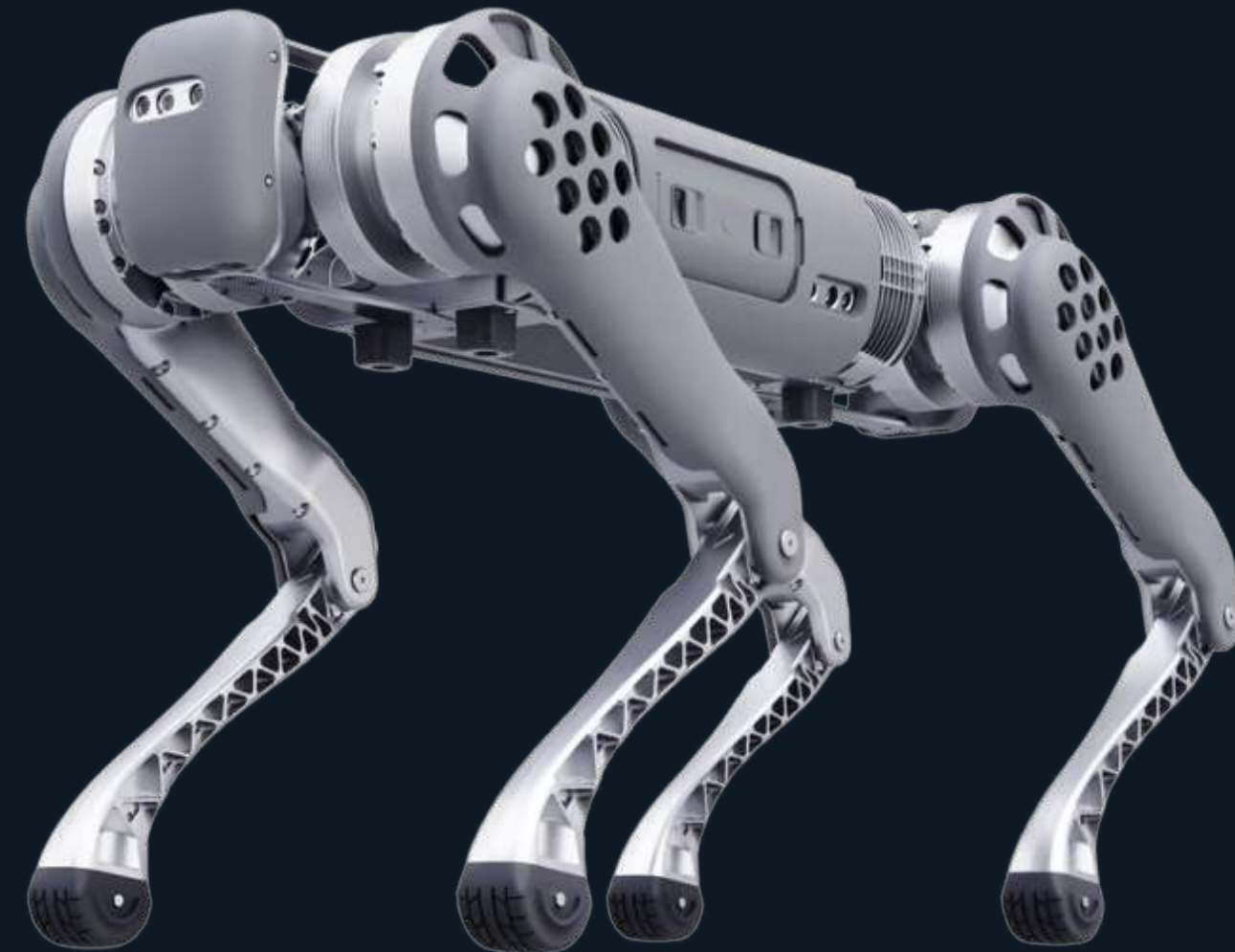
Q.HYDRA is utilized for continuous 24/7 monitoring of a fire-prone industrial plant and for the automatic suppression of fires using a camera-guided hydrant.

An automatic alarm is triggered and geolocated on **Q.WEB**, providing full remote monitoring capabilities

[Link to Video](#)



Industrial Plant Inspection and Control



Q.RUN is an intelligent sensor module installed on a robotic dog employed for inspecting hazardous areas, checking the status and detecting leaks in pipelines, and for surveillance purposes

Business Model



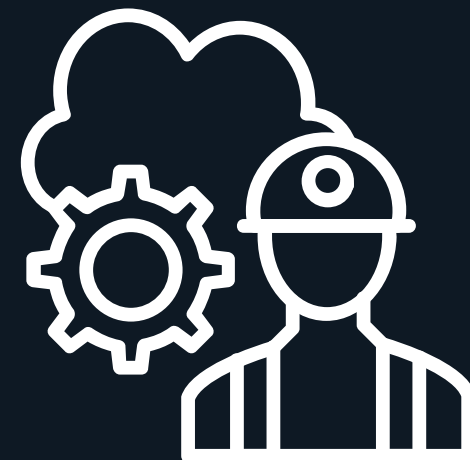
Sensor Selling/Renting

Una Tantum revenue generated through the sale or long-term rental of Hightek's sensors



Service subscription and Software License

Monthly subscription for Q.System services, technical support, software licences and personnel training



Specialized Engineering Services

Specialized Engineering services for custom hardware and software development

Contact



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