HIGHTEK

Q.SYSTEM

An integrated system for managing forest fires and natural disasters

HIGHTEK SRL

SPEAKER

FRANCESCO DE VIVO
Chief Executive Officer

WWW.HIGHTEK.IT

Problem

- AIRCRAFT AND CREW ARE EXPOSED TO EXTREME RISKS DURING AERIAL FIREFIGHTING
- EYE-BASED FIREFIGHTING IS TIME CONSUMING AND EXPENSIVE

- GET REAL-TIME READY-TO-USE INFORMATION OF WILDFIRE IS CHALLENGING
- DIFFICULTY TO GET A COMPREHENSIVE SOLUTION PROVIDING ALL DATA REQUIRED BY DECISION MAKERS

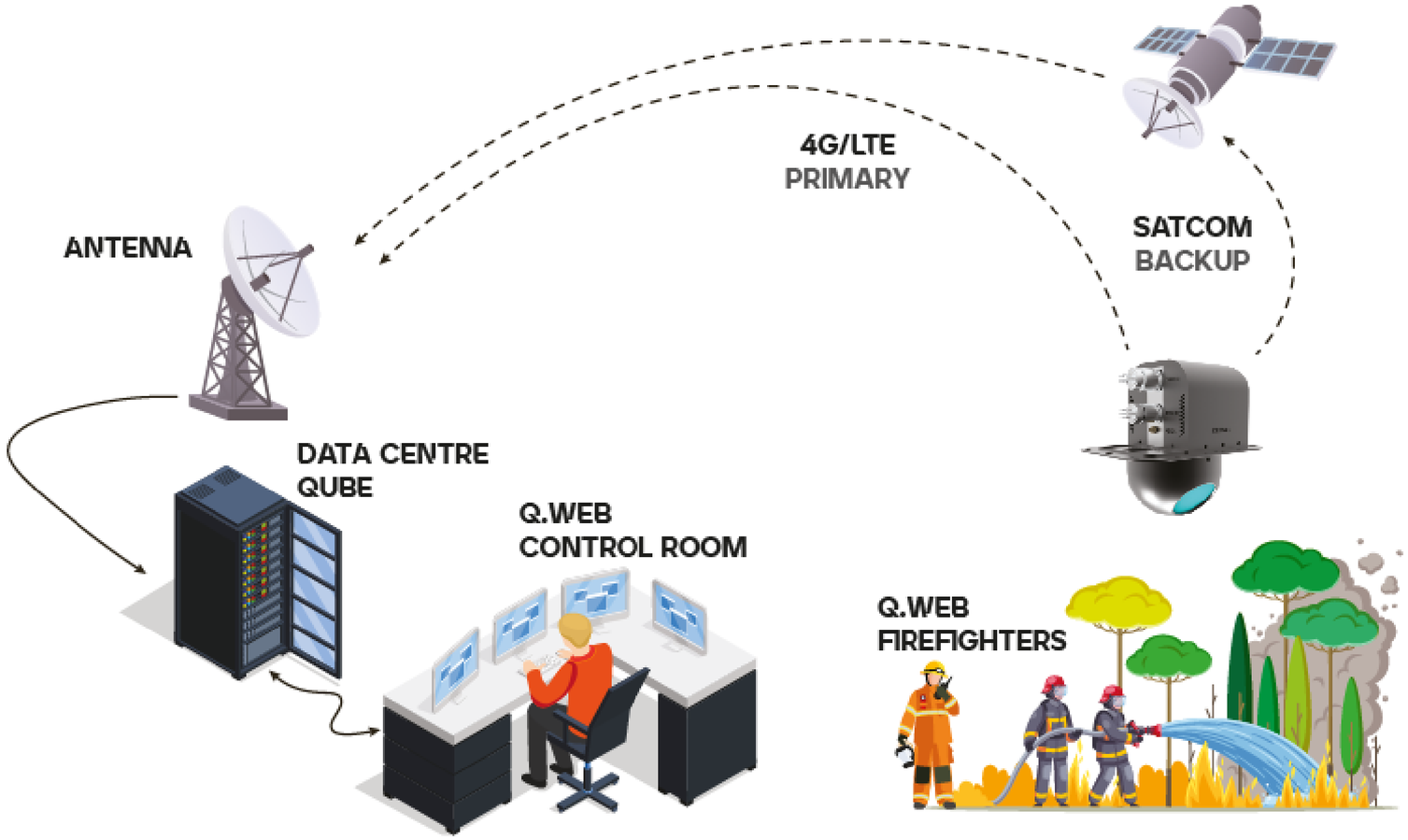
- GROUND PERSONNEL IS EXPOSED TO RISK WITHOUT PROPER PEOPLE TRACKING AND DISASTER PREDICTION
- GROUND-TO-AIR RADIO COMMUNICATION MAKE FIREFIGHTING INEFFICIENT AND ERROR-PRONE

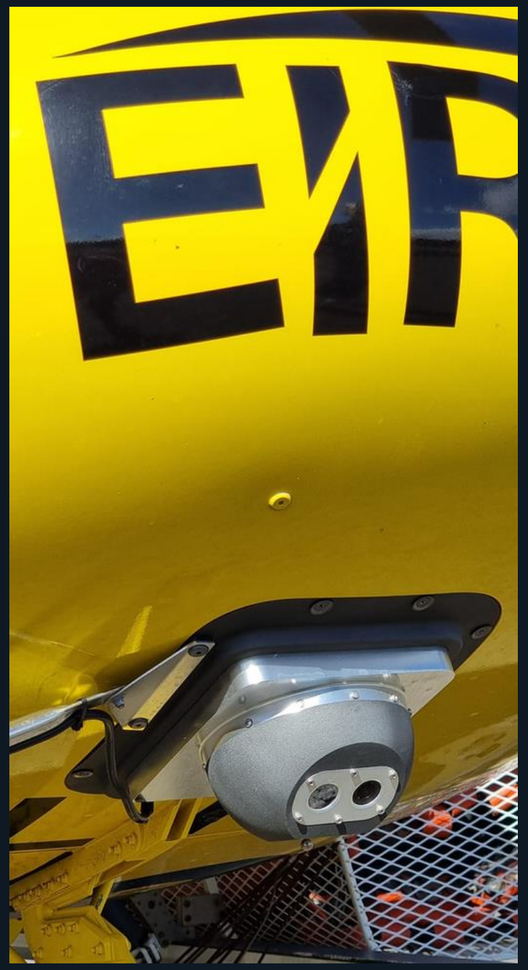
Solution

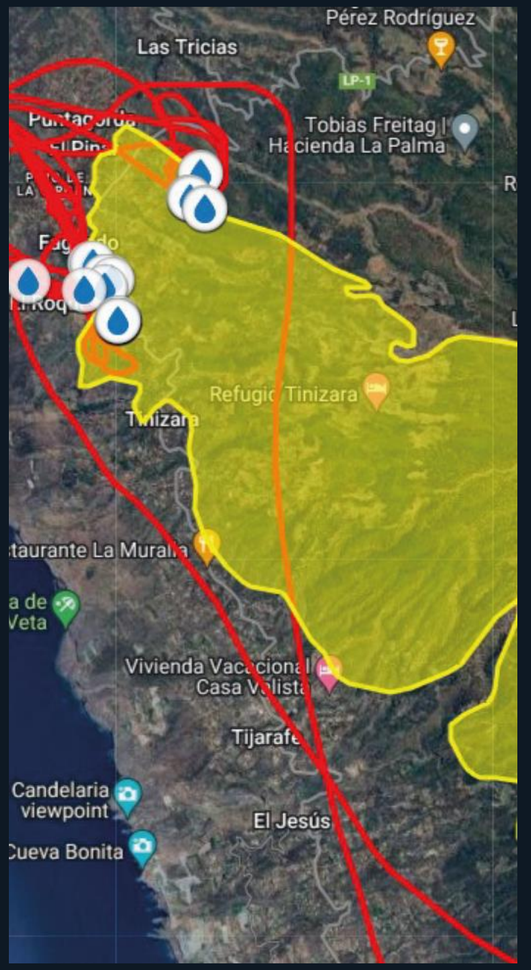
Q.SYSTEM IS AN INTEGRATED WILDFIRE MANAGEMENT SYSTEM THAT ALLOWS FIREFIGHTERS AND DECISION MAKERS, NEEDING RAPID DAMAGE ASSESSMENT TO GET REAL-TIME WILDFIRE DATA EVERYWHERE, USE AUTOMATIC PREDICTION SYSTEMS TO ANTICIPATE CRITICAL SITUATIONS AND OPTIMIZE OPERATIONS TO PRESERVE FORESTS AND LIMIT DAMAGES TO PROPERTIES.

BENEFITS:

- ALL WILDFIRE AND TRACKING **DATA AVAILABLE IN REAL-TIME** USING A SINGLE PLATFORM
- ENHANCED VISIBILITY SYSTEM **REDUCES** THE **RISK** OF **COLLISION** DURING FLIGHTS
- AUTOMATIC WILDFIRE DETECTION **SAVES 10% TO 20% FLIGHT TIME** DURING CLEANUP ACTIVITIES AND LIGHTNING FIRE FIGHTING
- **AUTOMATIC** DATA **PROCESSING** SPEEDS UP RISK ASSESSMENT AND DECISION MAKING







Q.FLY

Aerial Firefighting Mission Support System

Q.WEB

Cloud based Disaster Management System

Q.FIRE

Cloud based Data-Driven Fire Propagator

Traction

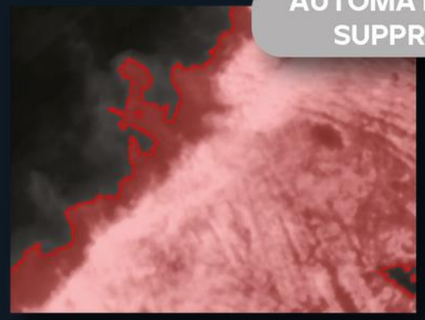
HIGHTEK
PROTEZIONE CIVILE
Regione Piemonte
ELI FRIULIA
HELICOPTER CENTER
REGIONE AUTONOMA
FRIULI VENEZIA GIULIA
Protezione Civile della Regione
Heliwest
HELICOPTER SERVICE
PROTEZIONE CIVILE
Regione Liguria
eliance
ALWAYS READY
HELIBRAVO
PEGASUS
AERO GROUP
Flight Vocation
MADEIRA
PROTEÇÃO CIVIL E BOMBEIROS
AÇORES
CANARY
gesplan
EIRIF
Gobierno de Canarias
GES
1-1-2

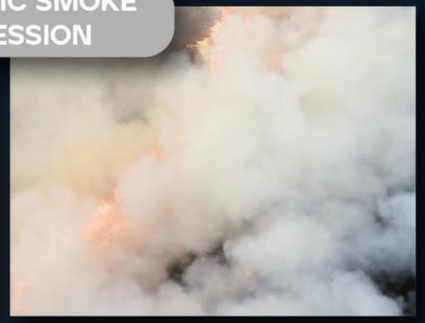
Advantages

	Q.FLY	GIMBAL Systems
Cost	€€	~~€€€€€~~
Weight	1 Kg - 4 Kg	17 Kg - 90 Kg
EASA Certification	Minor Change	Major Change
Integration	Plug & Play	Complex + Space Req.
Manteinance	Inexpensive	Expensive
Software	Customized on Application	General Use Software
Operation	Automatic - Single Pilot	Dedicated Payload Operator

WILDFIRE DETECTION UNDER CANOPY

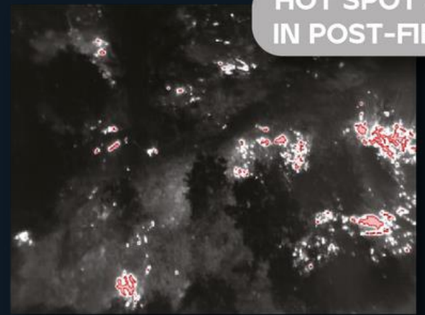
AUTOMATIC SMOKE SUPPRESSION

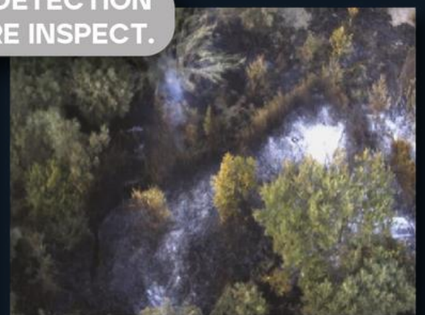




DETECTION OF EFFECTIVE FIRE FRONT

HOT SPOT DETECTION IN POST-FIRE INSPECT.





Barranco de Almagrero

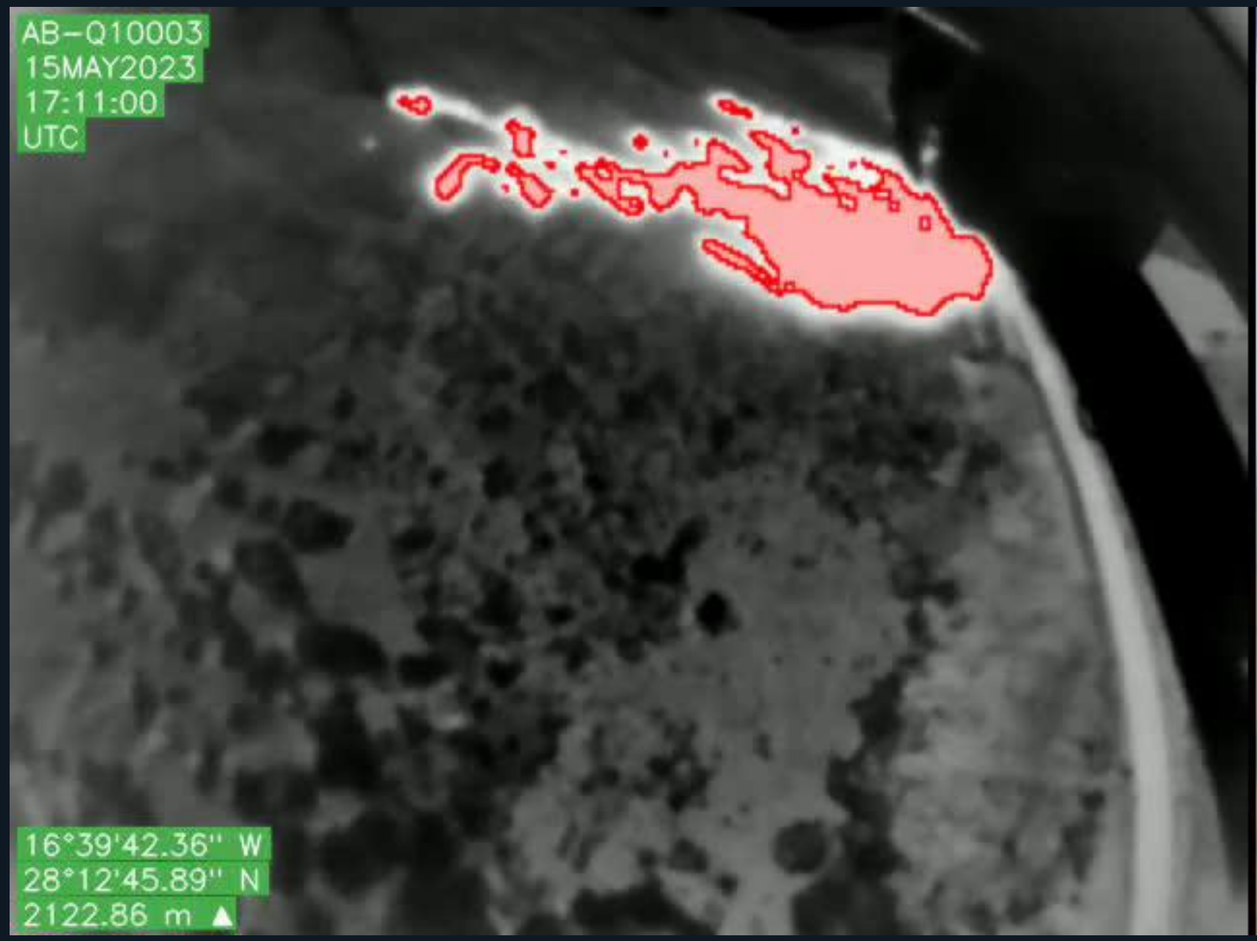
Barranco Charco

AB-Q10001/EC-NDJ/MI-61

Live alcuni secondi fa

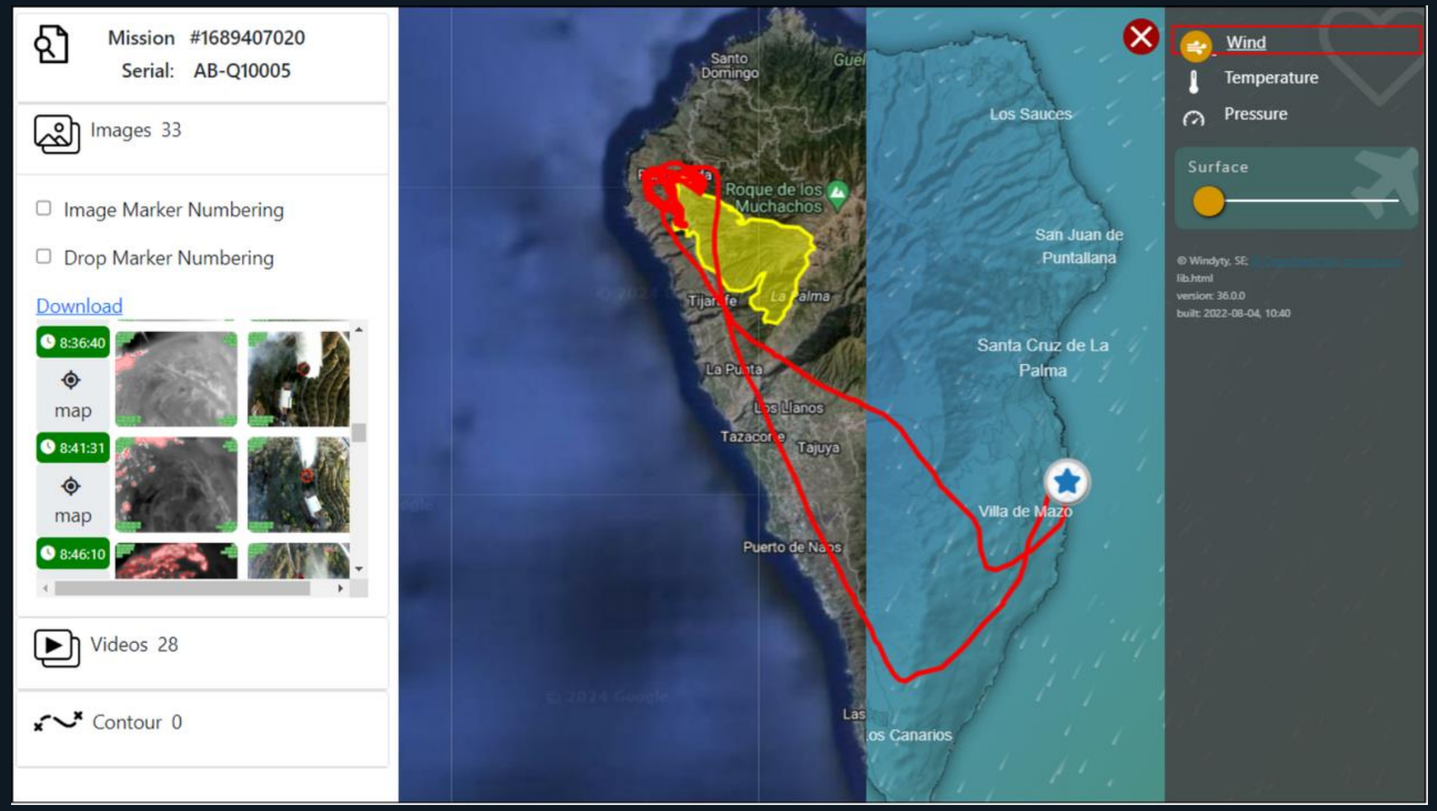
Photo | Follow | Streaming

Q.FLY



FIRE PERIMETER AND SMOKE SUPPRESSION

Q.WEB



REAL TIME VIEW

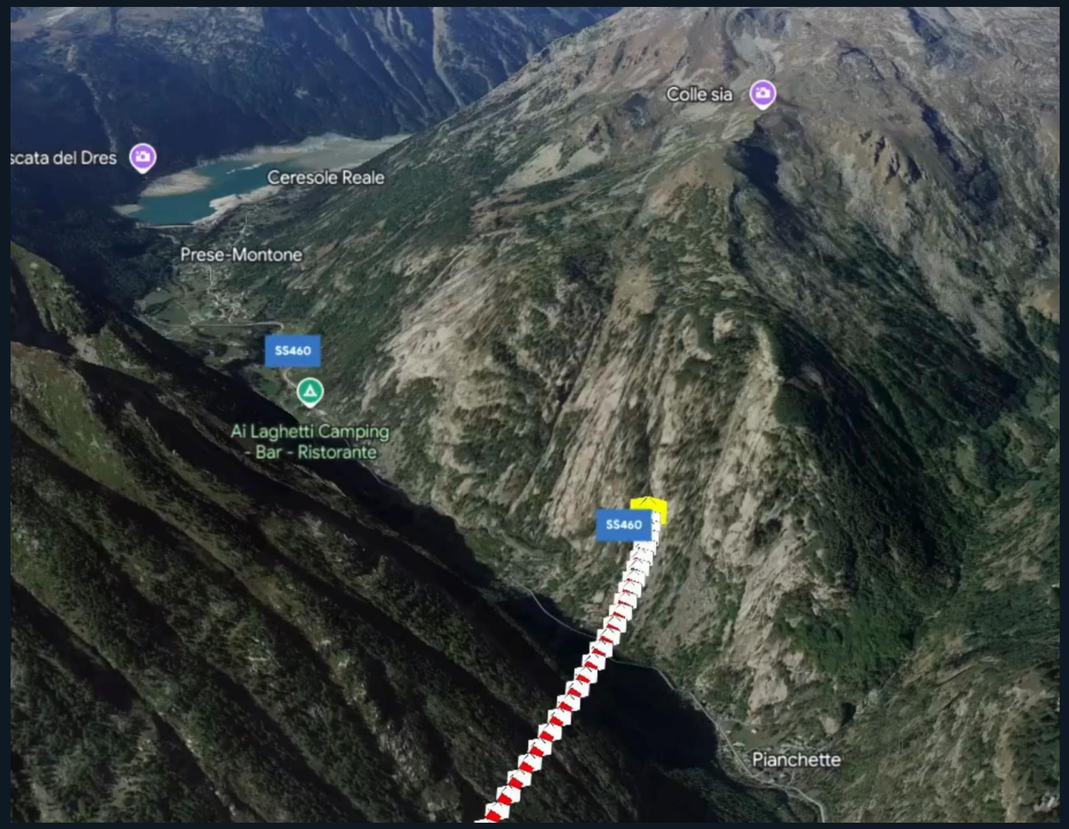
- PLATFORM TRACKING
- LIVE STREAMING VIDEO
- MISSION PLANNING

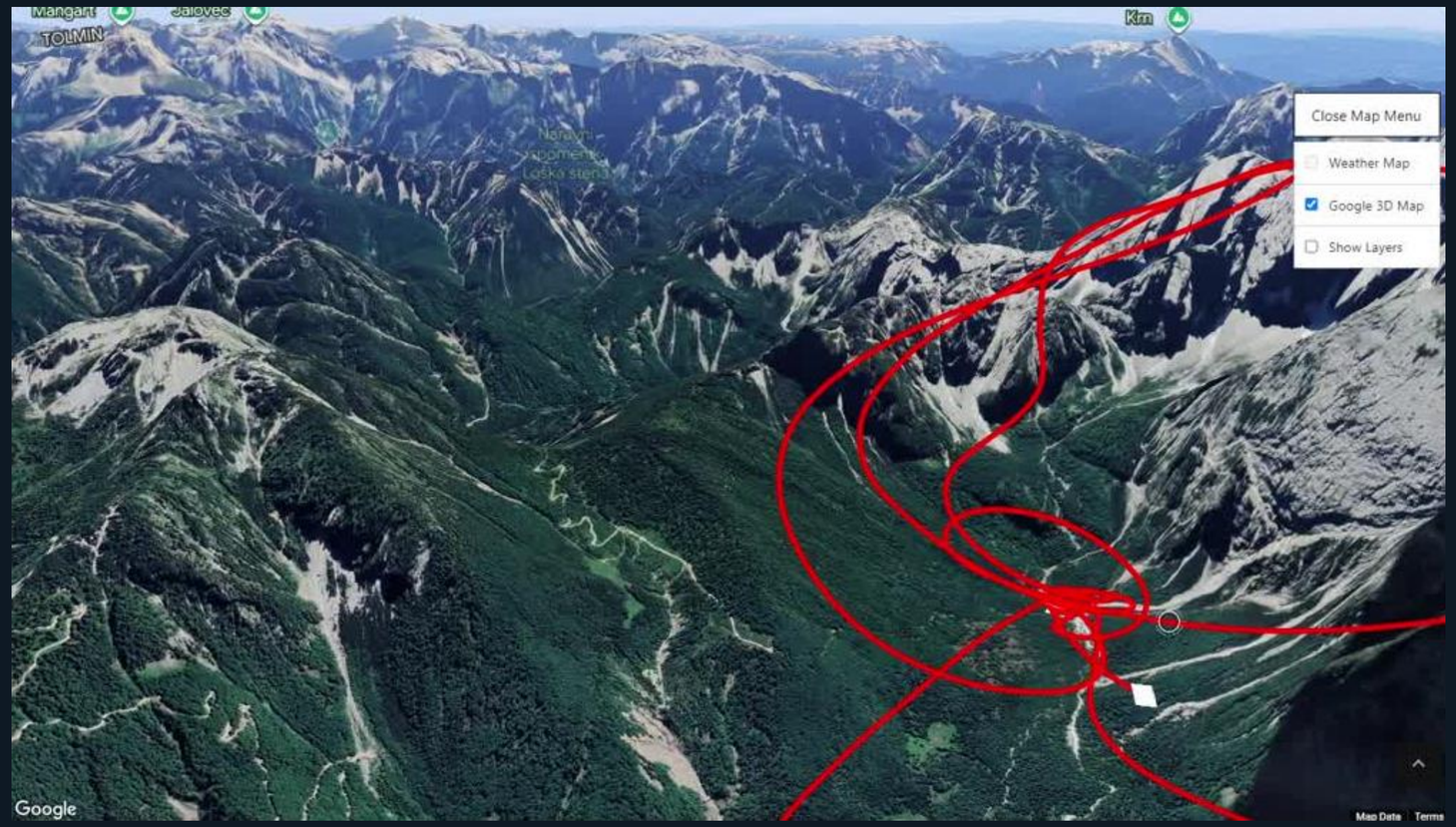
Q.SYSTEM VIDEO LINK: https://youtu.be/9UvK18Jenv4?si=p8fRTsqkyQdPGPY7

GIS VISUALIZATION

- PHOTO / VIDEO / DROP GEOREFERENCING
- FLIGHT STATISTICS
- SATELLITE AND WEATHER DATA
- WILDFIRE PERIMETER

Q.WEB - 3D





REAL TIME VIEW

- 3D MISSION PLANNING
- 3D FIRE VISUALIZATION TO ANTICIPATE DINAMICS

GIS VISUALIZATION

- POST EVENT ANALISYS AND DAMAGE ASSESSMENT
- PERSONNEL TRAINING

Q.FIRE

CORRECTION FROM CAMERA DATA

NO CORRECTION FROM CAMERA DATA

REAL-TIME MEASUREMENT OF FIRE PERIMETER

Contacts

Email

info@hightek.it

Website

www.hightek.it

Call us

+39 081-19023552