DG ECHO LEAPFROG

Leading Activities for the enrolment of RPAS units in the voluntary pool

The project has received funding from the European Union's 2018 Call for proposals for buffer capacities for addressing temporary shortcomings in extraordinary disasters under grand agreement ECHO/SUB/2018/BUF01/782233.

Operations

Capacity



Funded by European Union Civil Protection

<image/>	Fact sheet	
	Field	Description
	Country of Origin	Cyprus (Larnaca departure)
	Code/Module type/number	Leapfrog (RPAS module)
DG ECHO LEAPFROG is a joint undertakina between the Cyprus Civil	Ready for departure (in hours)	12 hrs from clearance
	Available time period	Available up to 10 days
Defence, the KIOS Research and	Structure	4 members with equipment
Innovation Center of Excellence, the	Operational Readiness on site	1 hour
Ministry of Interior of Bulgary and the	Emergency Response	Search and rescue (over land and at sea)

Civil Protection Agency of the Autonomous Region of Sardenia in Italy.

CHANNEL AVNAMIA

Live footage (HD and thermal) Real-time image presentation 2D and 3D (offline) maps

RPAS team structure





Remote Pilot in Command operates the RPAS

Visual Observer operates the payload and inspects the collected data

Technical and Safety officer ensures reliable, safe and efficient operation

Liaison Officer facilitates communication between the RPAS team and the incident commander



Hardware and Software

SOPs

Organization Operating Procedures

Team Operating Procedures

Mission Cycle

Data management and protection



DJI M600 (multirotor, 2 RPAS units) Thermal and HD camera payloads 24 batteries (2 hours continuous operation) Auxiliary Equipment

- 2 Laptop PCs
- External storage drives
- Communications (radio and IP)

Tools

Equipment

Manufacturer's RPAS pilot software SwiftTag RPAS mission planning software

- Live streaming
- Data collection and representation Mission Control GIS software
- Data representation and processing
- Annotation and situational assessment





Training and Exercises



Background: Air Law & Safety, Meteorology, Data protection, GIS and RPAS technologies

Foreground: Flight principles (day and nights), data management (collection, storage and processing), SOPs









Surveying/ SAR (urban, rural)/ Firefighting



Deployments



Full project description as well as documents and multimedia can be found at: http://www.kios.ucy.ac.cy/leapfrog/