

CENTUM RESEARCH & TECHNOLOGY









IN ENGLISH

MOUNTAIN TRAGEDY

Two hikers lost in weekend storms found dead in Castellón

Third missing man survives to lead emergency services to his companions















IGNACIO ZAFRA



Valencia 29 FEB 2016 - 10:37 CET







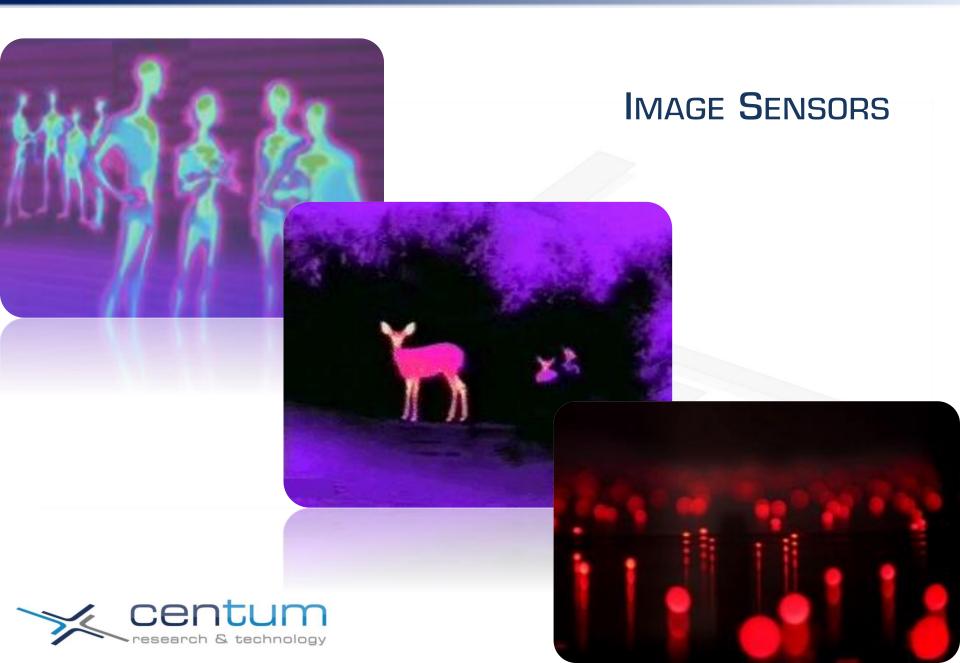
CURRENT SEARCH MISSIONS





CURRENT SEARCH MISSIONS





New Searching Paradigm





Mobile phones are the most extended radio beacons in the world

Visual Searching



Instrumental Searching



New Searching Paradigm



New Capabilities

Detection

Communication

Geo-location

(((((

Visual Searching



Instrumental Searching





Main advantages of the Instrumental Searching

- Search under Low or No Visibility, including Night flights
- Radio of detection of several Kilometers:
 - ✓ Reducing Sweep Time of the searching area
 - ✓ Reducing Operating Cost
- Detection under Rubble (earthquakes), under Foliage (forest areas), under Snow etc.









Maximum Success in Search & Rescue Missions

Functionality

- Locates missing people through their mobile phone
- With no collaboration of the missing person

Works in areas with / without coverage

Acts as a communication relay

Detection

Geo-location

Communication









LIFESEEKER - SUBSYSTEMS



LifeSeeker includes two subsystems:

Onboard sensor

- Detects and locates GSM transmissions
- Sends geographic coordinates of the transmission to the control station





Control station

- Provides system intelligence and operational control
- Easily adapted to mission needs



LIFESEEKER - CONTROL STATION



Features

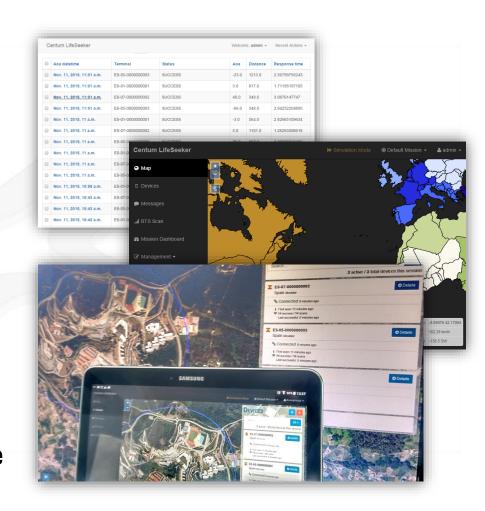
Maximize User Experience

History mission record

Mission Simulator - Trainings

HTML5 (multi-OS, multi-devices)

Visual Event Notifications for the operator





LIFESEEKER CONOPS

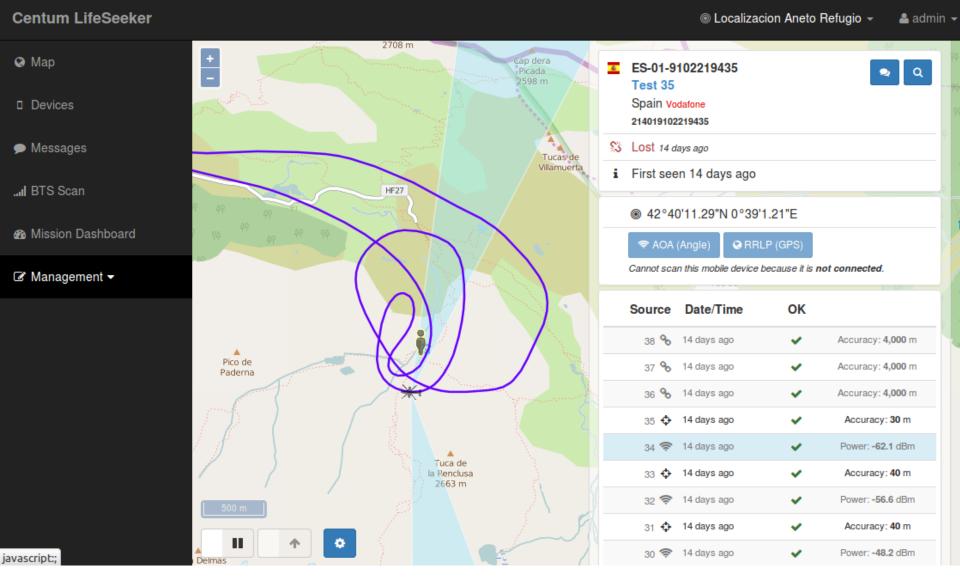


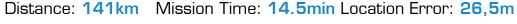




LIFESEEKER: ANETO MISSION (3.404M)











Need to implement or modify certain operating processes

- 1. New conditions to consider in flight planning:
 - Visibility
 - Altitude
- 2. Flight pattern to follow to maximize probability of detection by **Instrumental Search**
- 3. New operative procedure might need to be develop (IMSI)







LIFESEEKER is a great complement to the current technologies and procedures able to maximize search mission success

Some benefits:

- Searching Time
- Operational Cost
- Risk







IN ENGLISH

MOUNTAIN TRAGEDY

Two hikers lost in weekend storms found dead in Castellón

Third missing man survives to lead emergency services to his companions















IGNACIO ZAFRA









CONCLUSIONS





IN ENGLISH

MOUNTAIN TRAGEDY

Two hikers lost in weekend storms found in good condition in Castellón

Third missing man survives to lead emergency services to his companions

















Valencia 29 FEB 2016 - 10:37 CET







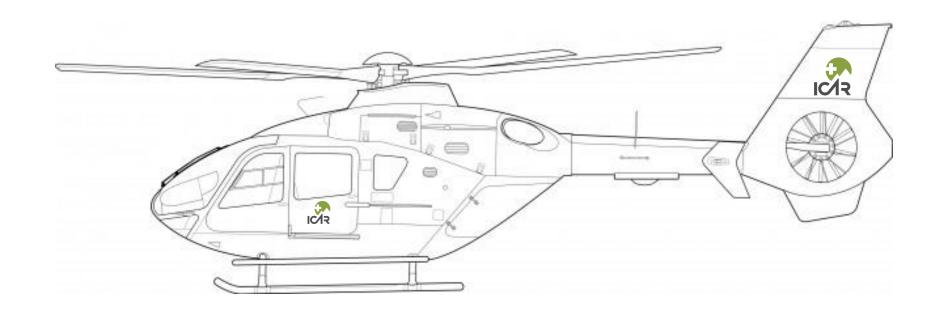
LIFESEEKER - FURTHER INFORMATION













CENTUM research & technology

Where Technology addresses Market www.centum-rt.com





