



Cell Phone Tracking Systems

Enhancing SAR missions using the right technology

ICAR Congress

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Lifeseeker is the airborne phone location system, a technology capable of finding missing people through their mobile phone geolocation – even in areas with no network coverage.

This technology turns mobile phones into emergency beacons that can lead the rescue team to the missing person's exact location.



Lifeseeker is available in 3 series

MINI

Short-range missions
Small areas



SAR

Short/mid-range missions
Mountain & sea shore SAR



SAR XL

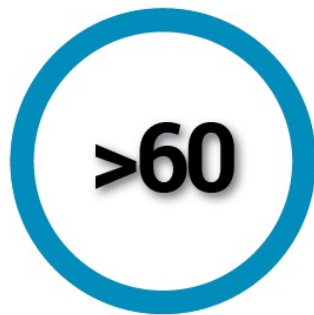
Long-range missions
Large areas & maritime SAR







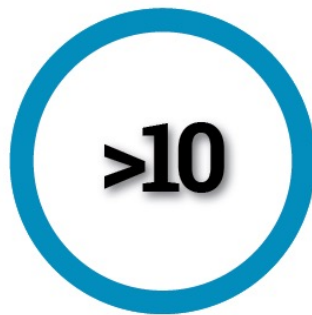
Lifeseeker is being operated by **civil and military** organizations around the world, helping SAR teams to save lives...



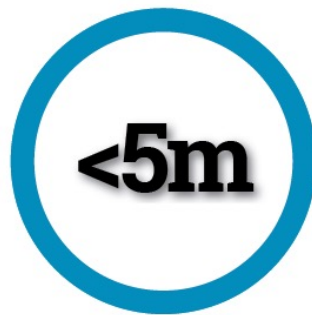
**Total
successful
missions**



**End
users**



**Countries
of operation**



**Best
accuracy**



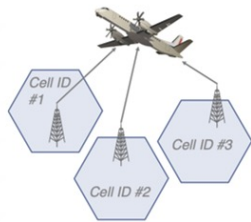
**Average
mission time**





BRIEFING

- Mission planning
- Data acquisition



CONFIGURATION

- Network monitoring
- Set known configuration



SEARCH

- Detect
- Identify (IMIS /IMEI)
- Register
- Geolocate



DEBRIEFING

- Analyse information
- DB
- Mission debriefing

OPERATION IN 4 STEPS





Transmission is active. Lifeseeker begins to search target phones.
Radio resources were configured with scan results (suggestions) or programmed manually.

Instant location (GPS request)

When available, using RRLP function allows to get phone's exact position (GNSS accuracy) in just one click.

Regular search

If RRLP is not available, this mode allows to estimate any phone's location with our own algorithms.





1. Casualty details

- Missing old man.
- Suffering from dementia.
- Found by Lower Saxony Police by helicopter with Lifeseeker.
- Found Alive.





LIFESEEKER SUCCESS MISSIONS



HANNOVER - 1:10 AM

HELICOPTER TAKES OFF

87 YEARS OLD

MISSING OLD MAN

RURAL

AREA TYPE

HYPOTHERMIA

SUFFERING FROM DEMENTIA

25 MIN

TOTAL SEARCH MISSION DURATION

01 MIN 52 SEC

TIME TO DETECTION

03 MIN 05 SEC

TIME TO GEOLOCATION

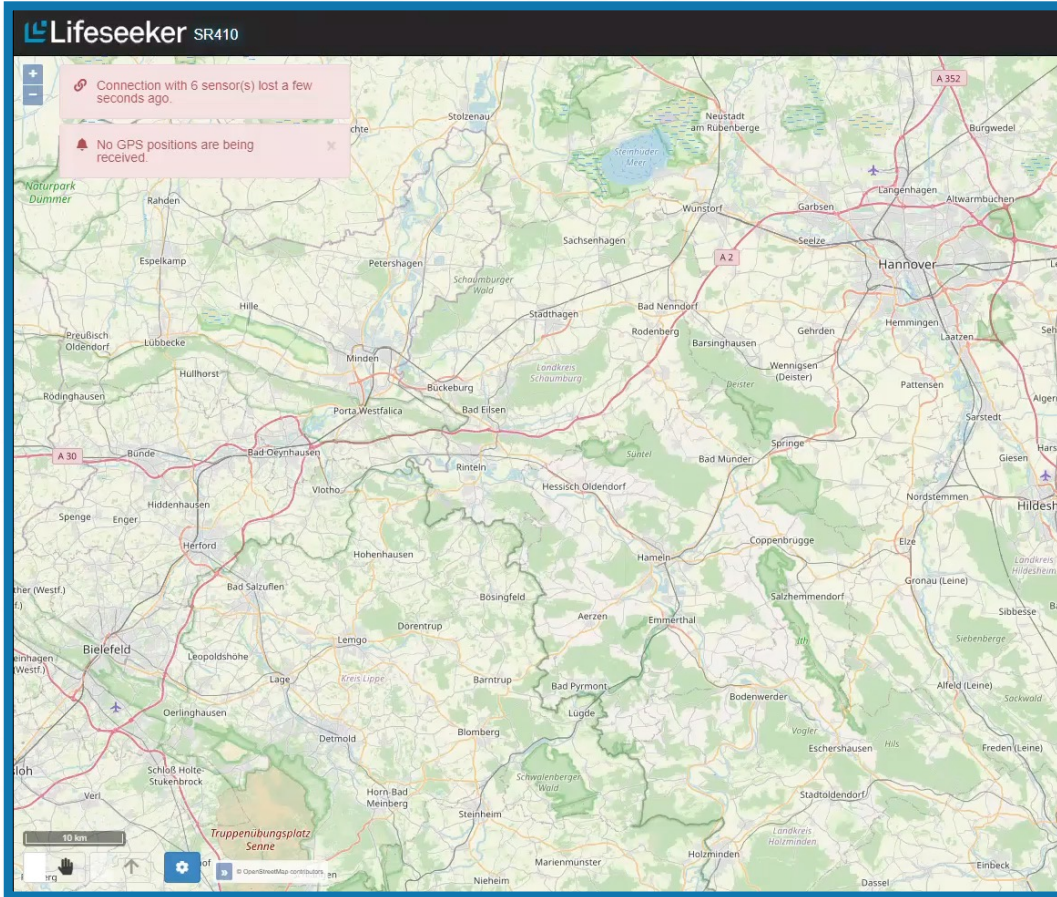
ALIVE

CASUALTY STATUS





LIFESEEKER SUCCESS MISSIONS





2. Casualty details

- Dehydrated female hiker placed an emergency call at 10:00 to the Emergency Services.
- The Firefighters were informed and started search with drone.
- After 15 minutes the woman was geolocated.
- Found alive .





LIFESEEKER SUCCESS MISSIONS



LA GÀRDIA- 10:00 AM

DRONE TAKES OFF

38 YEARS OLD

MISSING WOMAN

SEMI-URBAN

AREA TYPE

DEHYDRATED

HEAT STROKE

20 MIN

TOTAL SEARCH MISSION DURATION

00MIN 33 SEC

TIME TO DETECTION

02 MIN 58 SEC

TIME TO GEOLOCATION

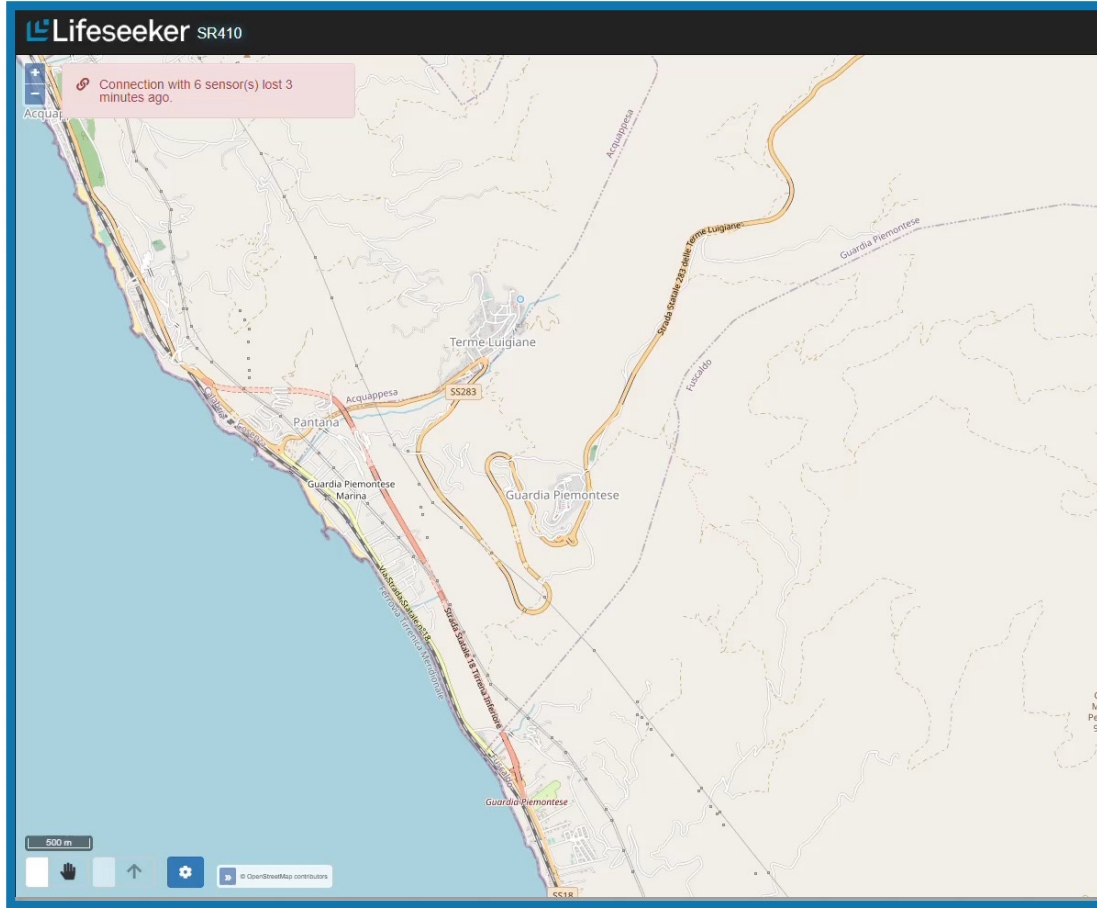
ALIVE

CASUALTY STATUS





LIFESEEKER SUCCESS MISSIONS





3. Casualty details

- Injured female hiker placed an emergency WhatsApp call at 20:00, describing location and health state to her contact.
- The Police was informed and started visual search with helicopter.
- After unsuccessful search, Luftwaffe with Lifeseeker was requested at 02:00 AM.
- Luftwaffe was able to locate the phone in ca. 10 minutes, but unfortunately all help was too late.





LIFESEEKER SUCCESS MISSIONS



AOSTA VALLEY - 2:00 AM

HELICOPTER TAKES OFF

55 YEARS OLD

INJURED WOMAN

MOUNTAIN AREA

AREA TYPE

INJURED

FALL



10 MIN

TOTAL SEARCH MISSION DURATION

01 MIN 32 SEC

TIME TO DETECTION

02 MIN 43 SEC

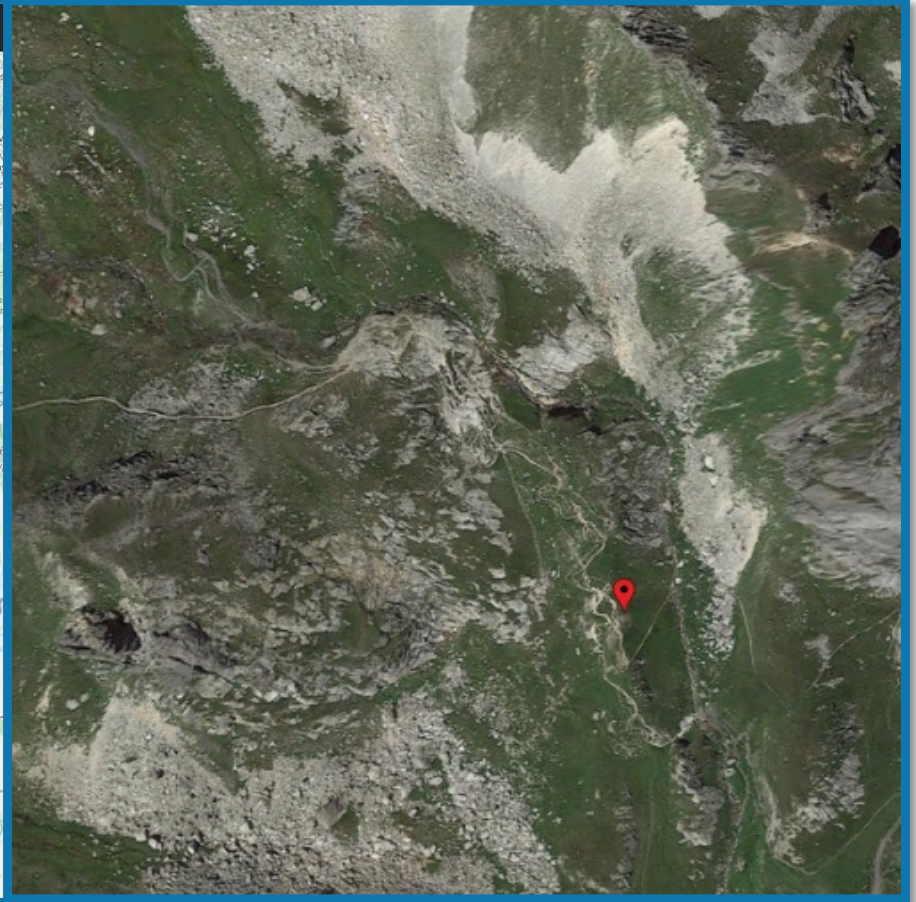
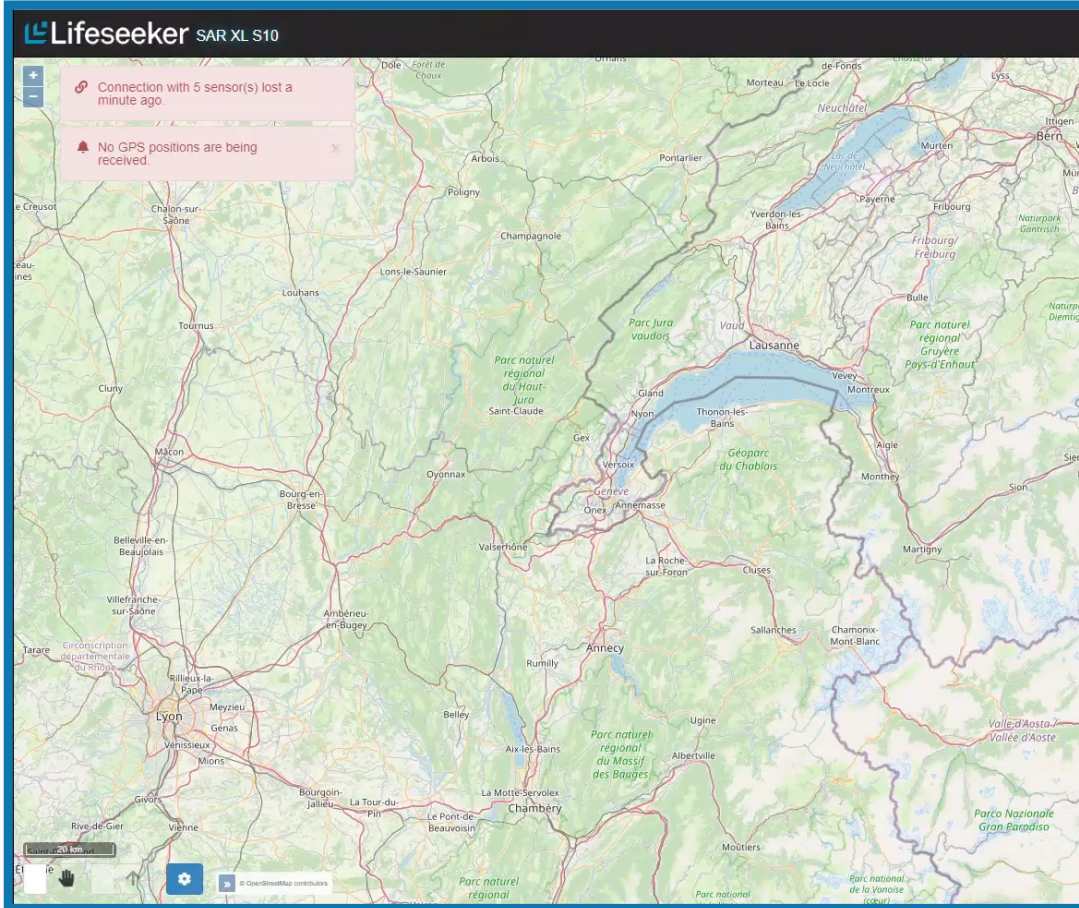
TIME TO GEOLOCATION

DECEASED

CASUALTY STATUS



LIFESEEKER SUCCESS MISSIONS





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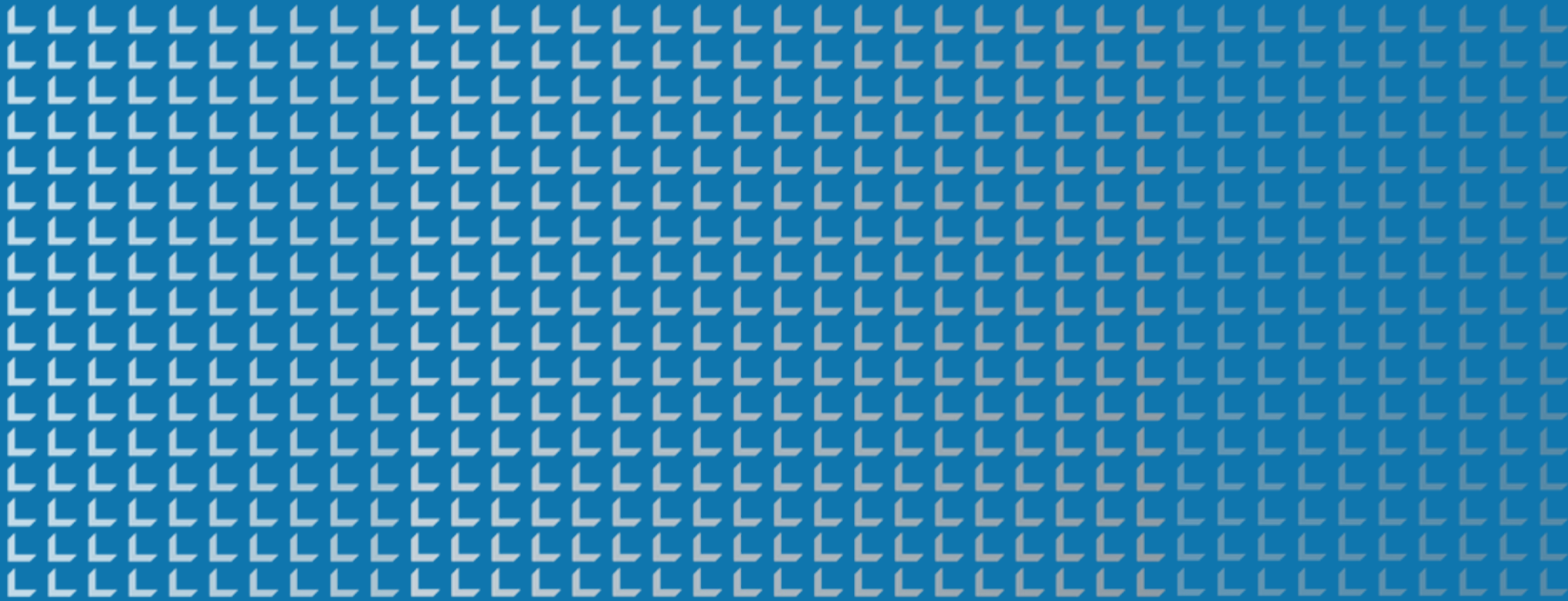
Testimonial

"In an operation, not only every second counts, but also the right technology."

Chief of the Lower Saxony Police

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Lifeseeker

CENTUM research & technology

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