

Part 1 The importance of stay flexible

Analysis of a complicated rescue operation

Andrea Dotta, Training courses leader, Swiss Alpine Rescue

Part 2 New Technologies

To be faster safer and wiser during a rescue action

Claude Gavillet, Rescue Chef Station Montreux, Swiss Alpine Rescue

Alarm - 13.12.2022 at 20:15h





Alarm - 13.12.2022 at 20:15h









Normally, an alpine rescue Mission starts with a Key-word like:

EVACUATION

SEARCH

AVALANCHE

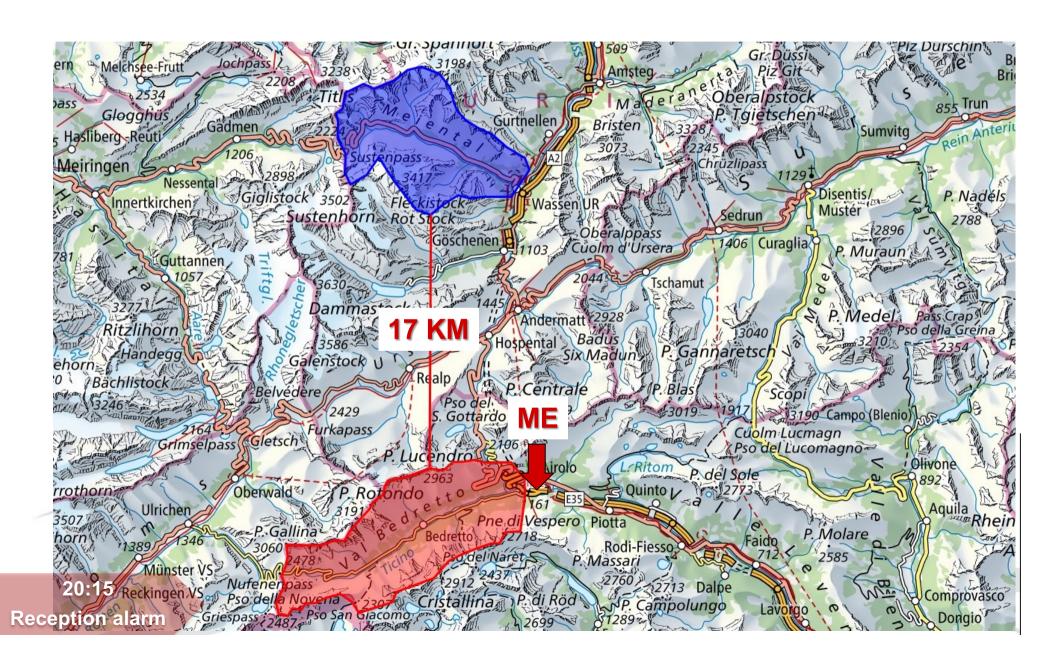
«facebook post» of the victim

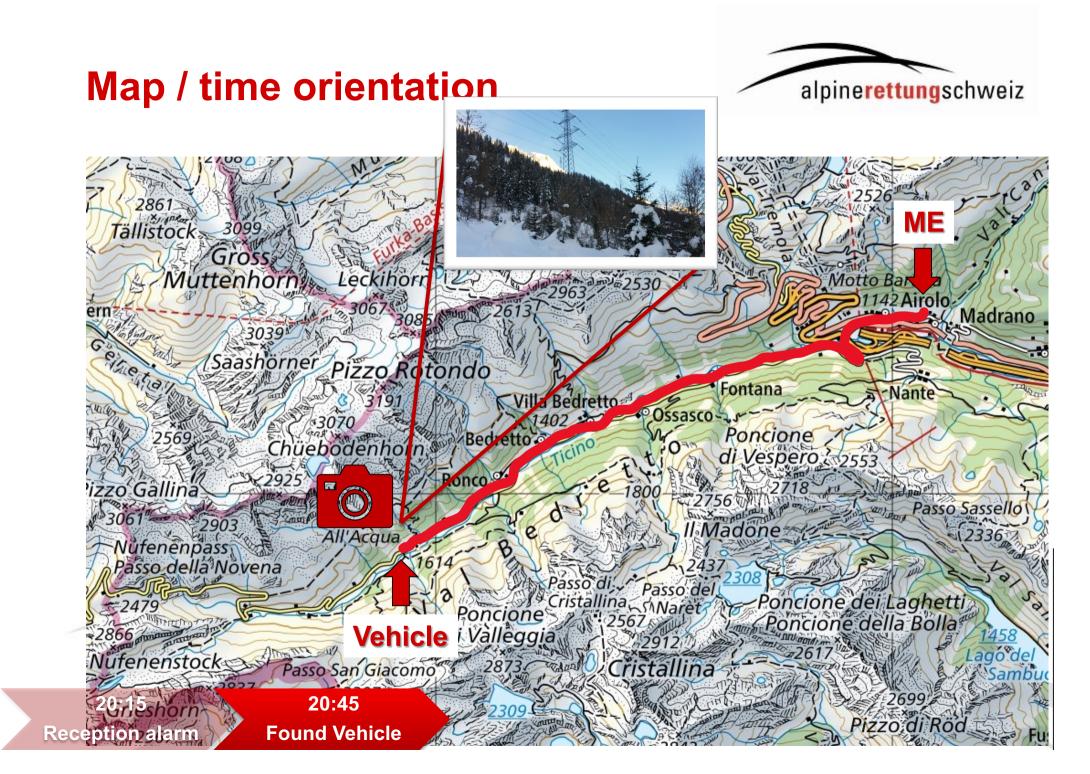




alpinerettungschweiz

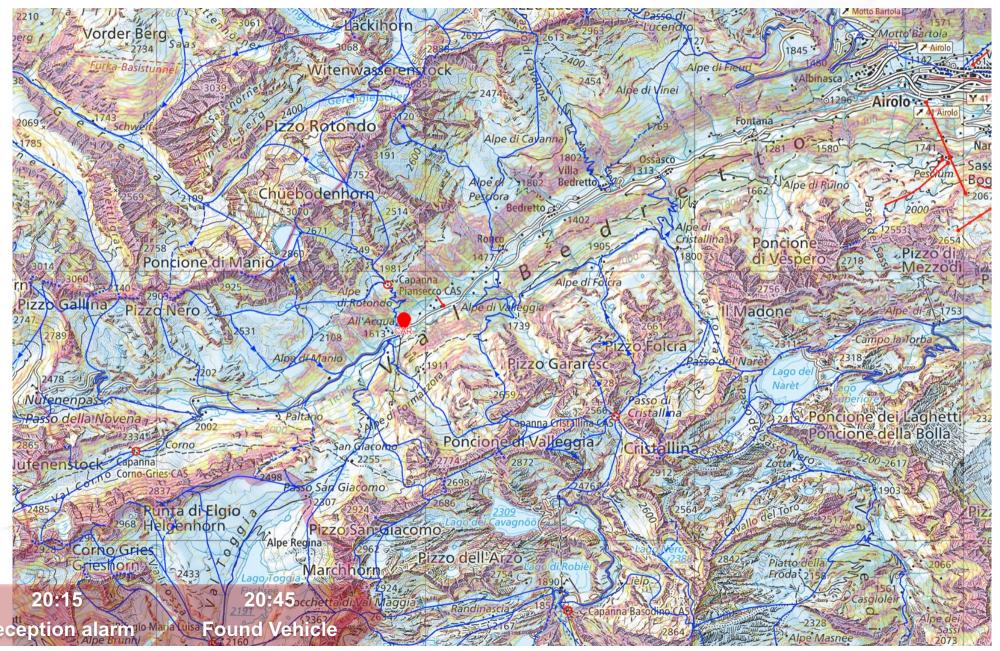
Potential areas of operations





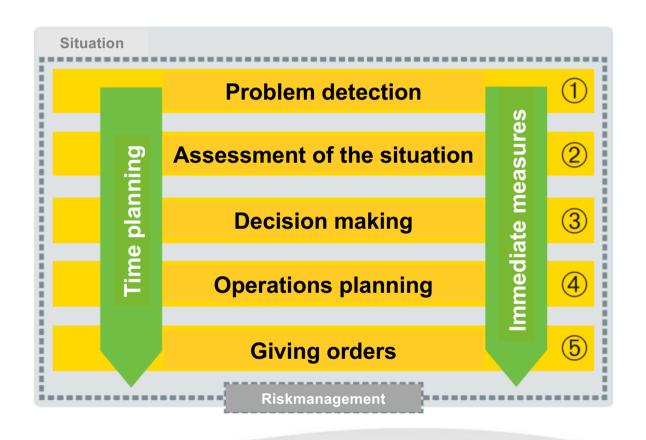
Situation





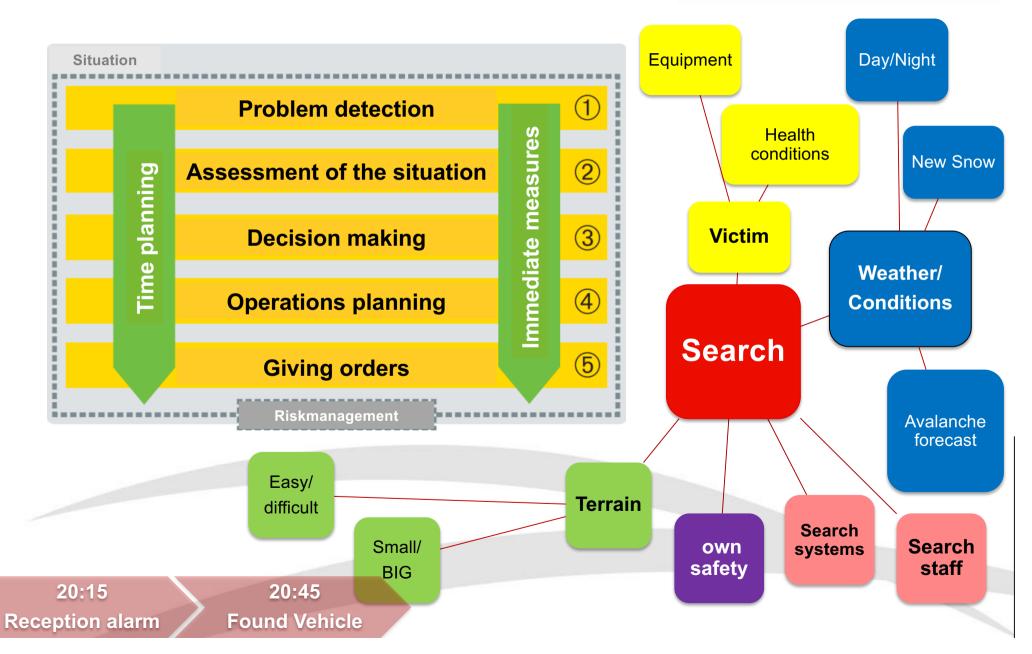






Leadership process

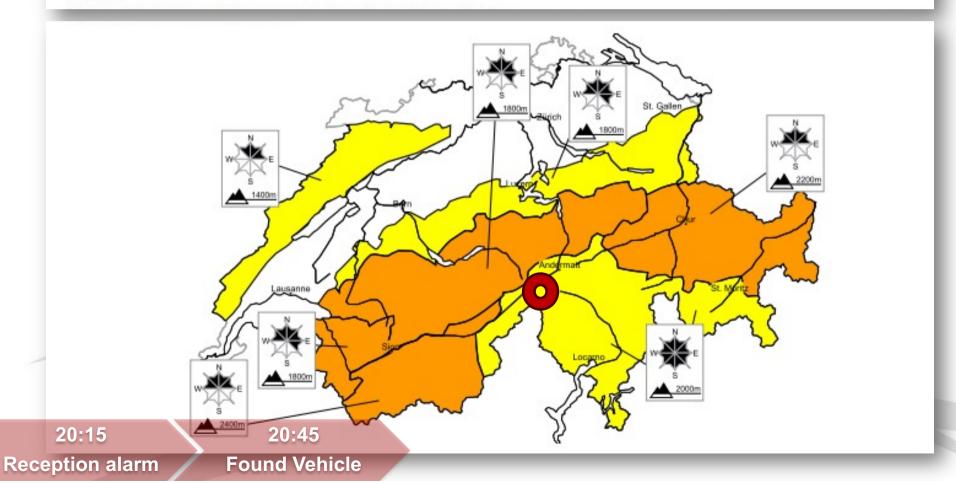




Avalanche danger «Switzerland»



Considerable avalanche danger will be encountered over a wide area







region E Level 2, moderate

Wind slabs

Avalanche prone locations



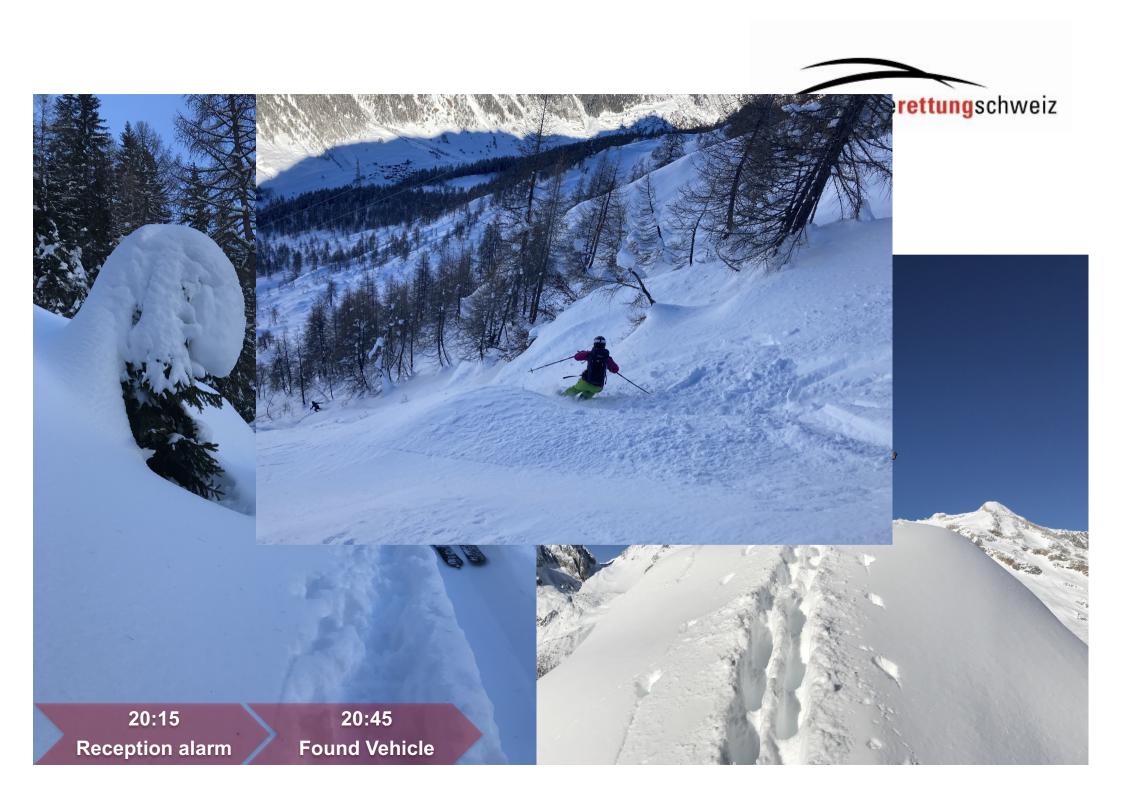
Danger description

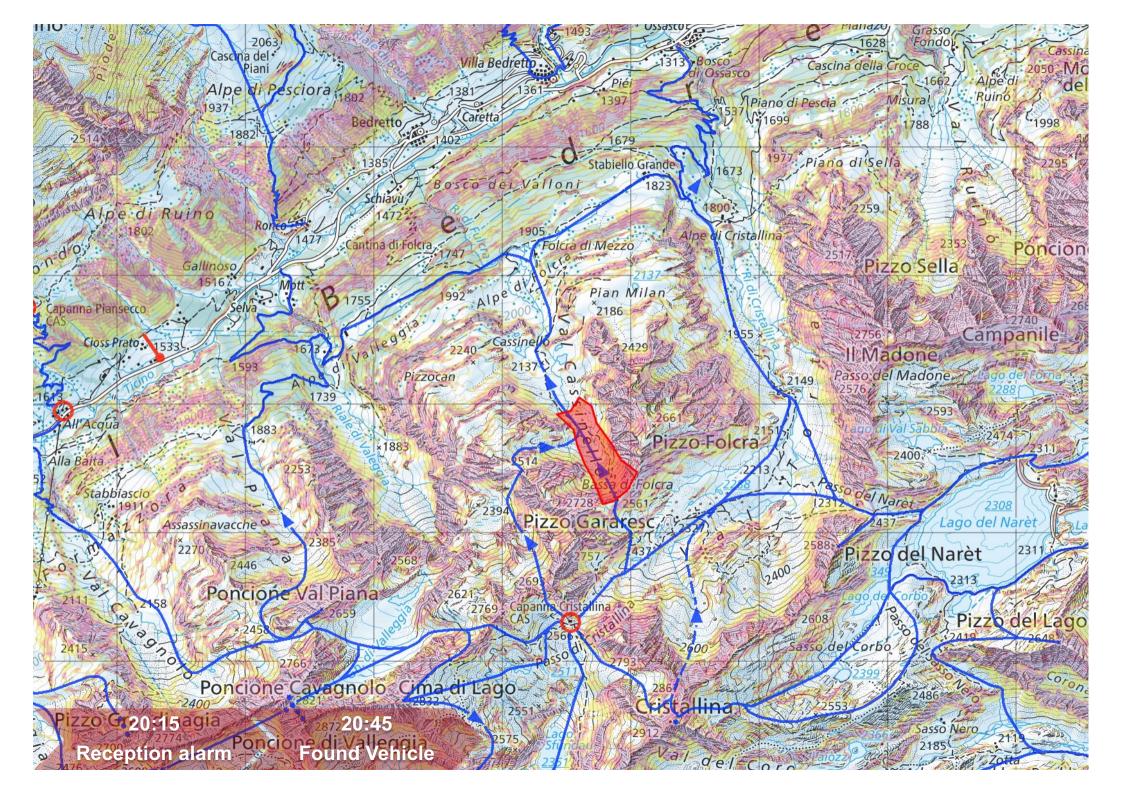
Fresh and somewhat older wind slabs can still be released in some cases. Avalanches can in some cases reach medium size. Additionally in very isolated cases avalanches can also be released in deep layers reach dangerously large size. This applies in particular on steep, rather lightly snow-covered shady slopes above approximately 2400 m.

Backcountry touring calls for careful route selection.

Gliding avalanches

More small to medium-sized gliding avalanches are possible. This applies in particular on steep south facing slopes below approximately 2200 m.





















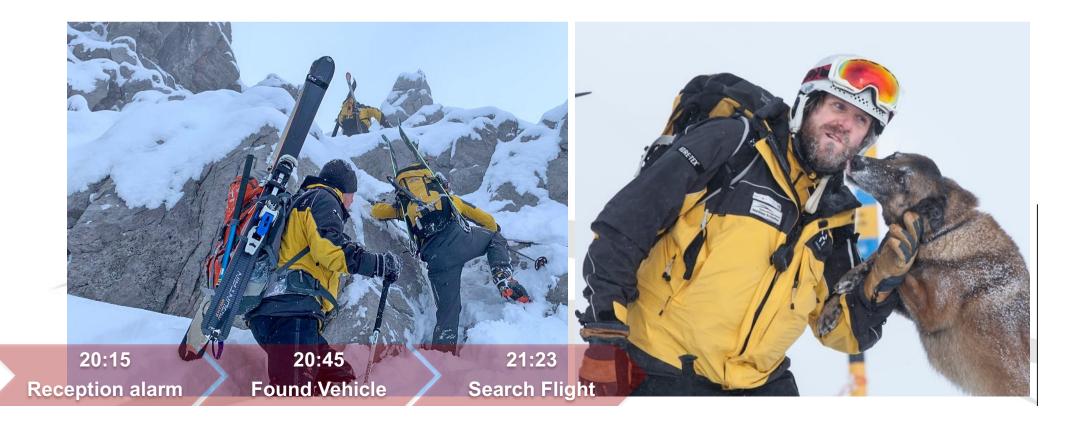
1. Search flight with a helicopter



Decisions - chief of Operation



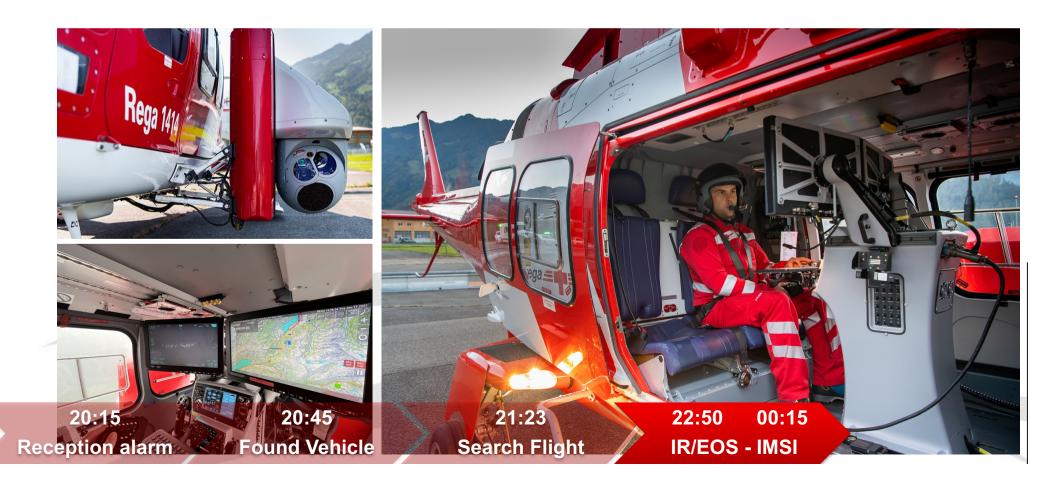
2. Pre-alarm for the rescue team "station Airolo" and for the avalanche dog handlers

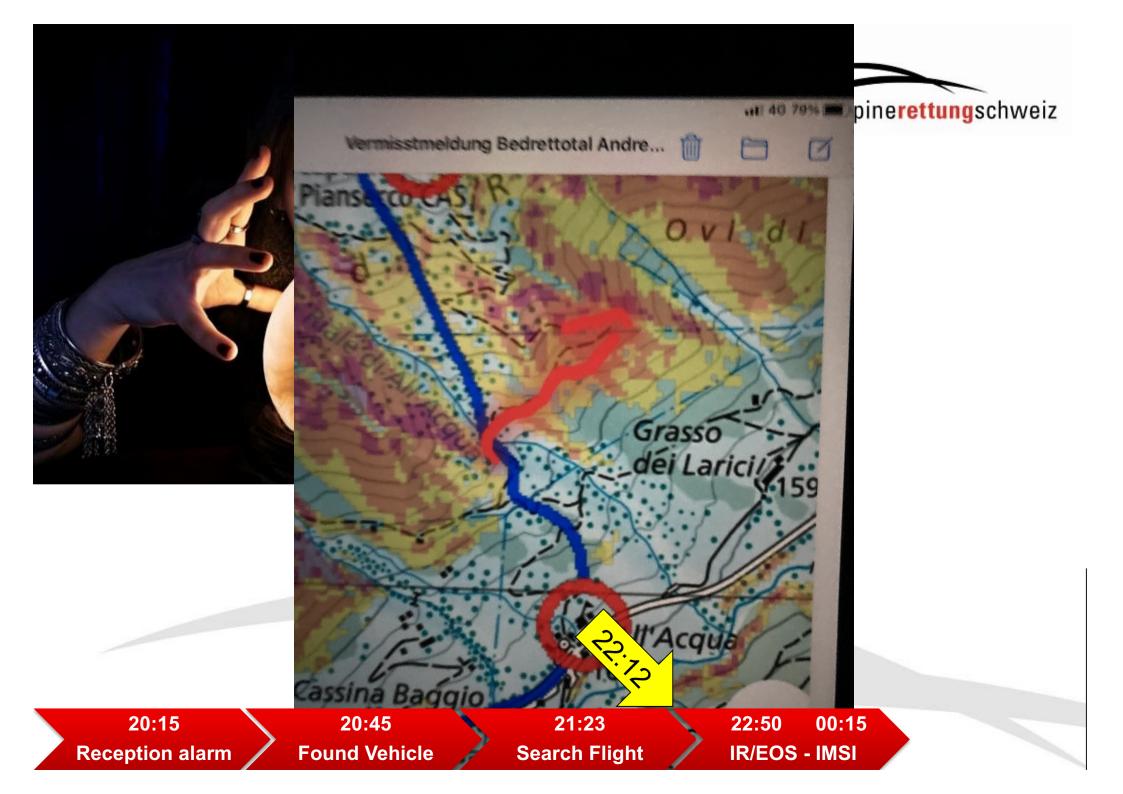




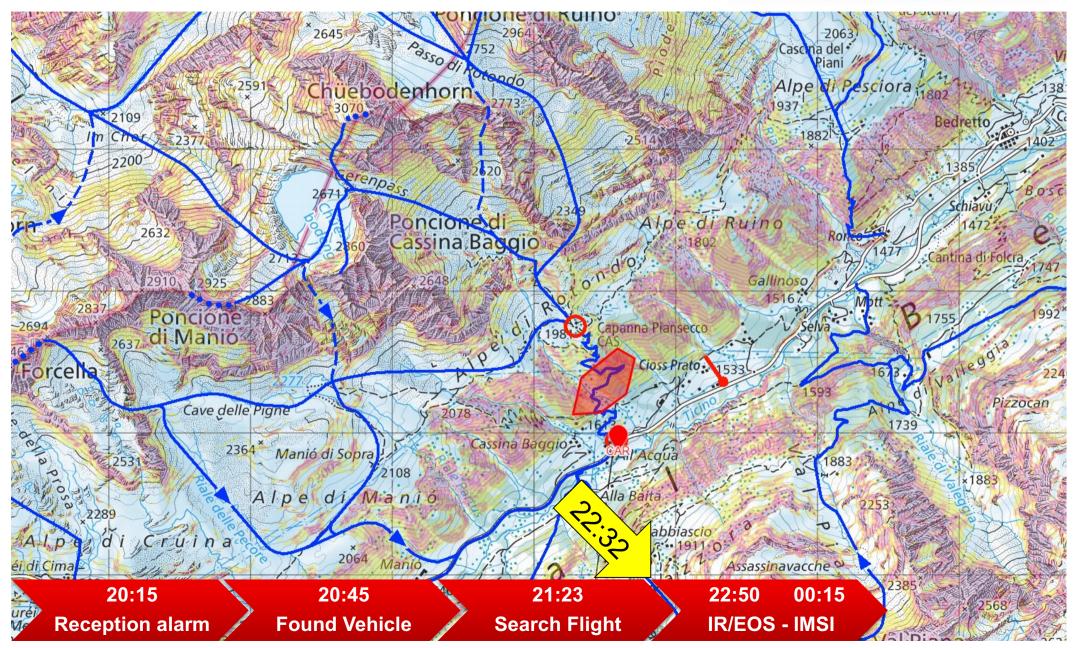


3. Search flight with an IR/EOS Rega helicopter









Search

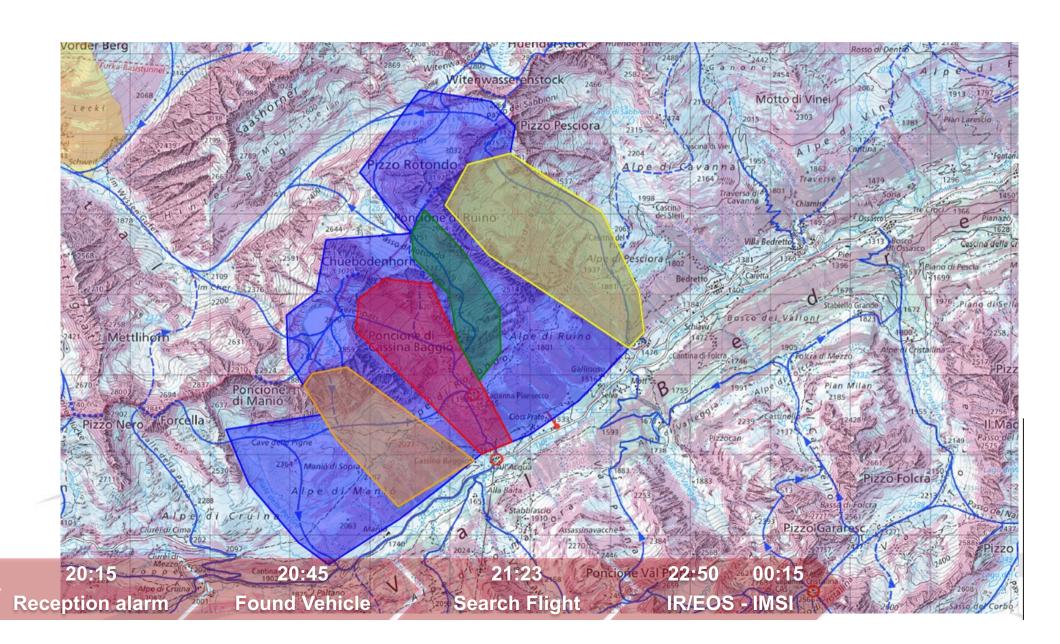


Search flight with an IR/EOS Rega helicopter



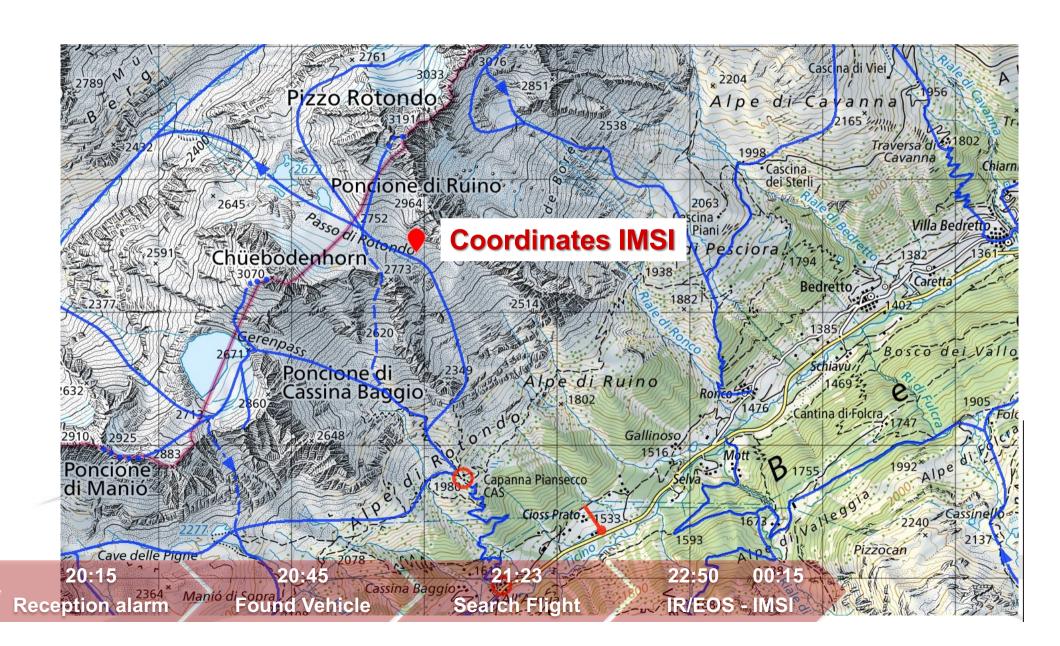
Search sectors (2 helicopters)





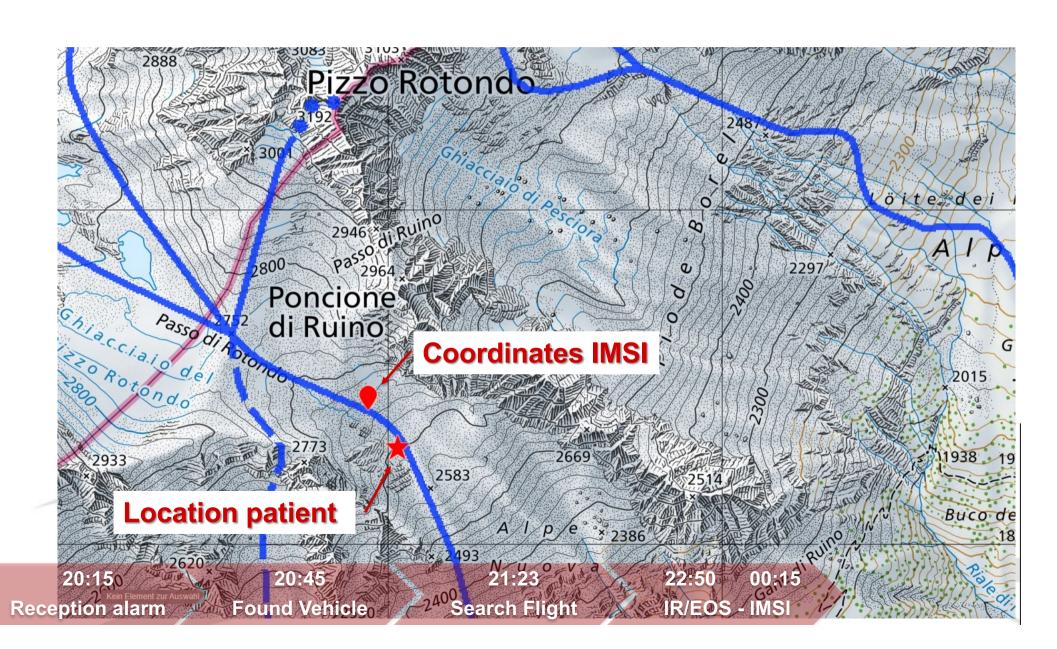
Rega IR/EOS System - IMSI signal





IMSI signal versus find location





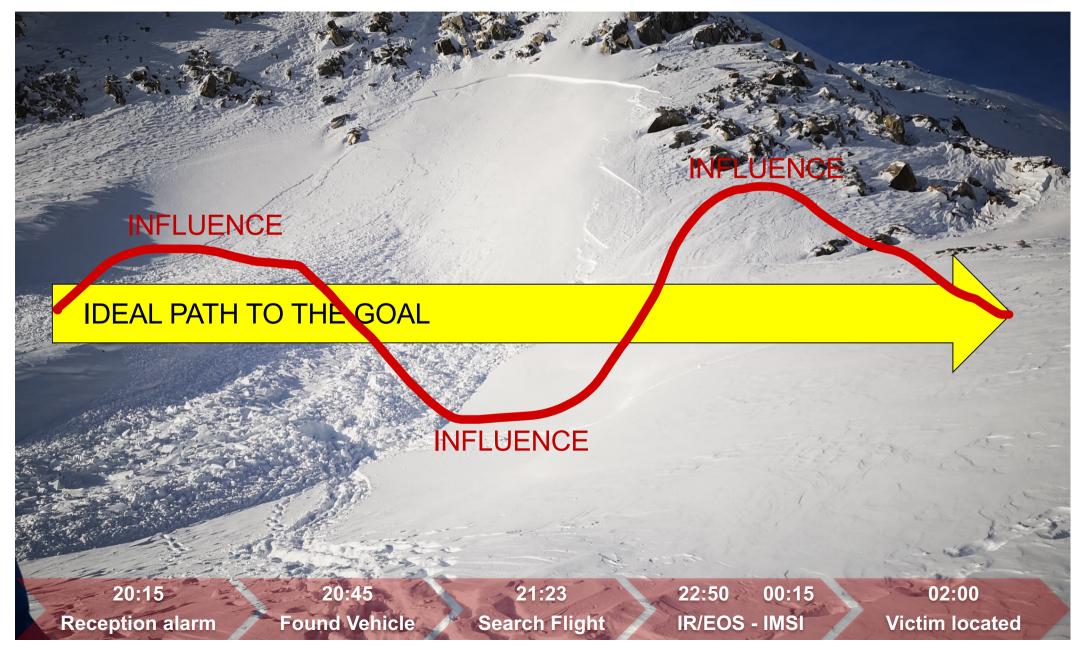
Conclusion





Conclusion



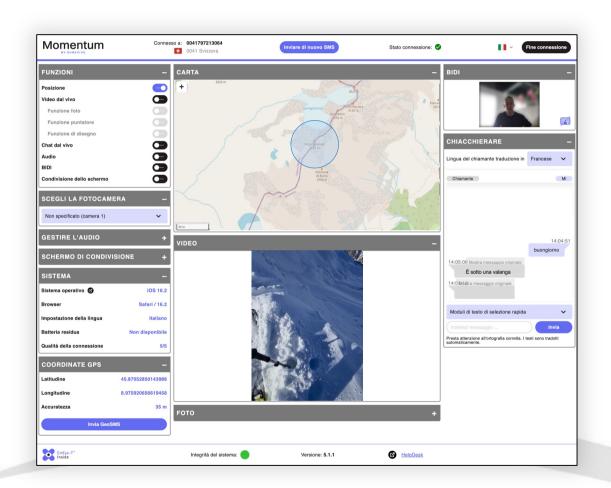




Part 2 How can technologies help rescuers be faster, safer and wiser during a mission?

LOCATE THE CALLER AND GET A VIEW OF THE SITUATION ON SITE



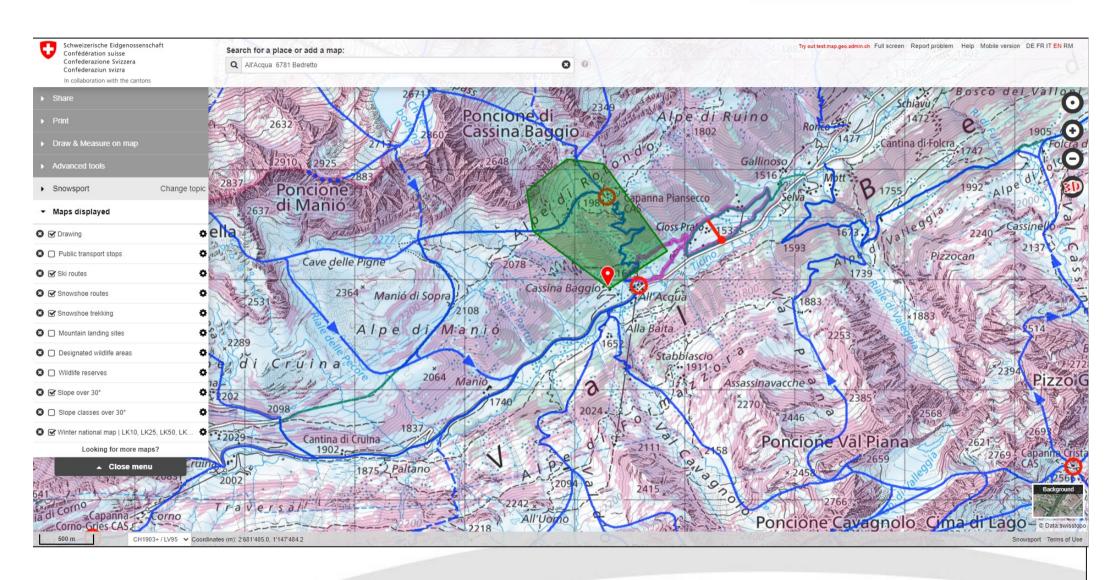




Sources: www.surevive.ch, www.emergencyeye.de

DEFINE SEARCH AREAS

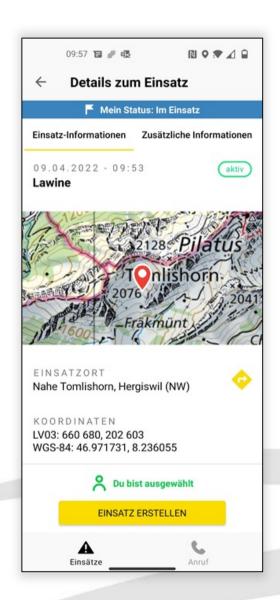


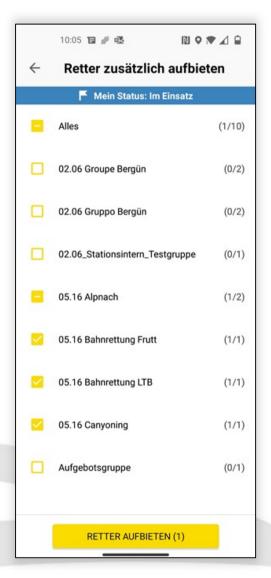


Source: www.swisstopo.admin.ch

ALARM AND SELECT RESCUERS







Source: Alpine Rescue Mission Control (ARMC)

ASSIGN SEARCH AREAS AND TASKS TO RESCUERS

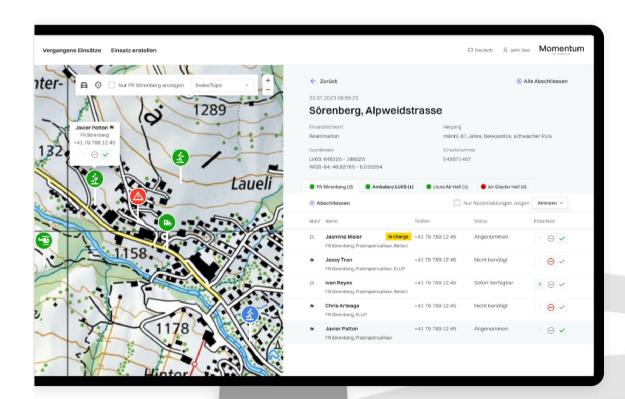




Source: www.swisstopo.admin.ch

TRACK RESCUERS AND PROVIDE A COMPLETE SITUATIONAL AWARENESS







Source: Alpine Rescue Mission Control (ARMC)

COMMUNICATE AND COOPERATE WITH OTHER RESCUERS







ARMC App

Threema App

Source: Alpine Rescue Mission Control (ARMC) and www.threema.ch



Thank you for your attention

Andrea Dotta Training courses leader, Swiss Alpine Rescue

Claude Gavillet
Chief of station Montreux, Swiss Alpine Rescue