

ICAR Congress 2012

Search operations and proportionality of the resources deployed



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Agenda

1. Introduction
2. Case study
3. Uniformity of training, management and tactics for search operations
4. New “Alpine Rescue Manual”, Chapter 4.2 “Search Operations”

1. Introduction

Critical success factors in search operations:

- Issue of the official order and the alarms, plus responsibility for the operation
- State of the missing person
- Situation as regards time
- Environmental conditions
- Resources and availability

Cost implications



2. Case Study “Alp Siegl”



Search operation: “Alp Sigel / AI (Reichert)”

Alarm issued “Fall in difficult-to-access terrain”

Sunday, 29 April 2012, 17:00

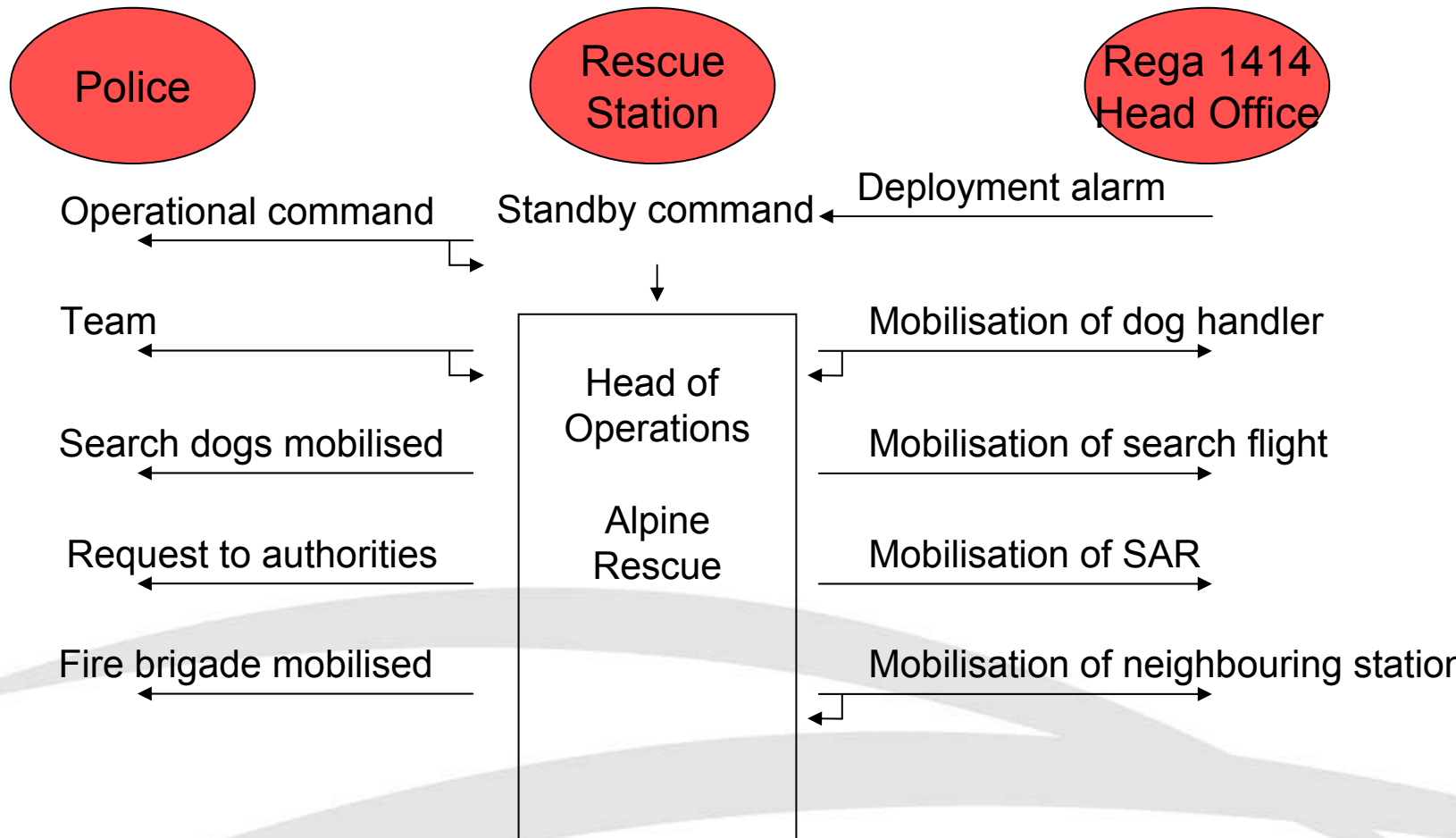
Alarm received by Rega 1414 >> Rescue operation

Weather: strong foehn wind, mild

Key details:

- On territory belonging to canton Appenzell Innerrhoden
- Started as a rescue mission then seamlessly became a search operation
- Missing person made contact herself, details of state of health
- Mobile phone subsequently did not work (empty battery)

Alarms issued within the station



Factors influencing tactics and resources

- Issue of the official order and the alarm, plus responsibility for the operation
- State of the missing person
- Situation as regards time
- Environmental conditions
- Resources and availability



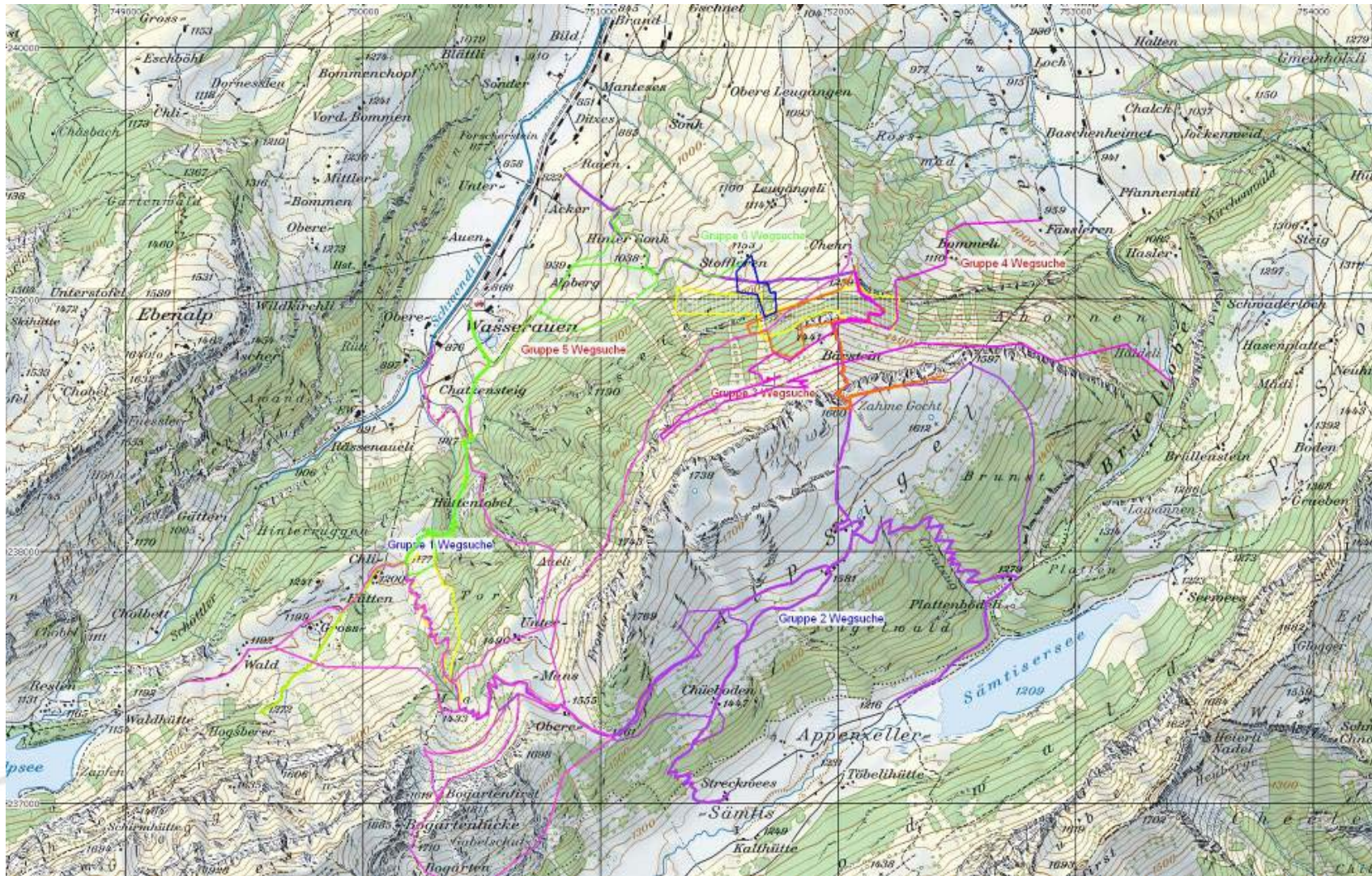
Resources and ancillary resources deployed

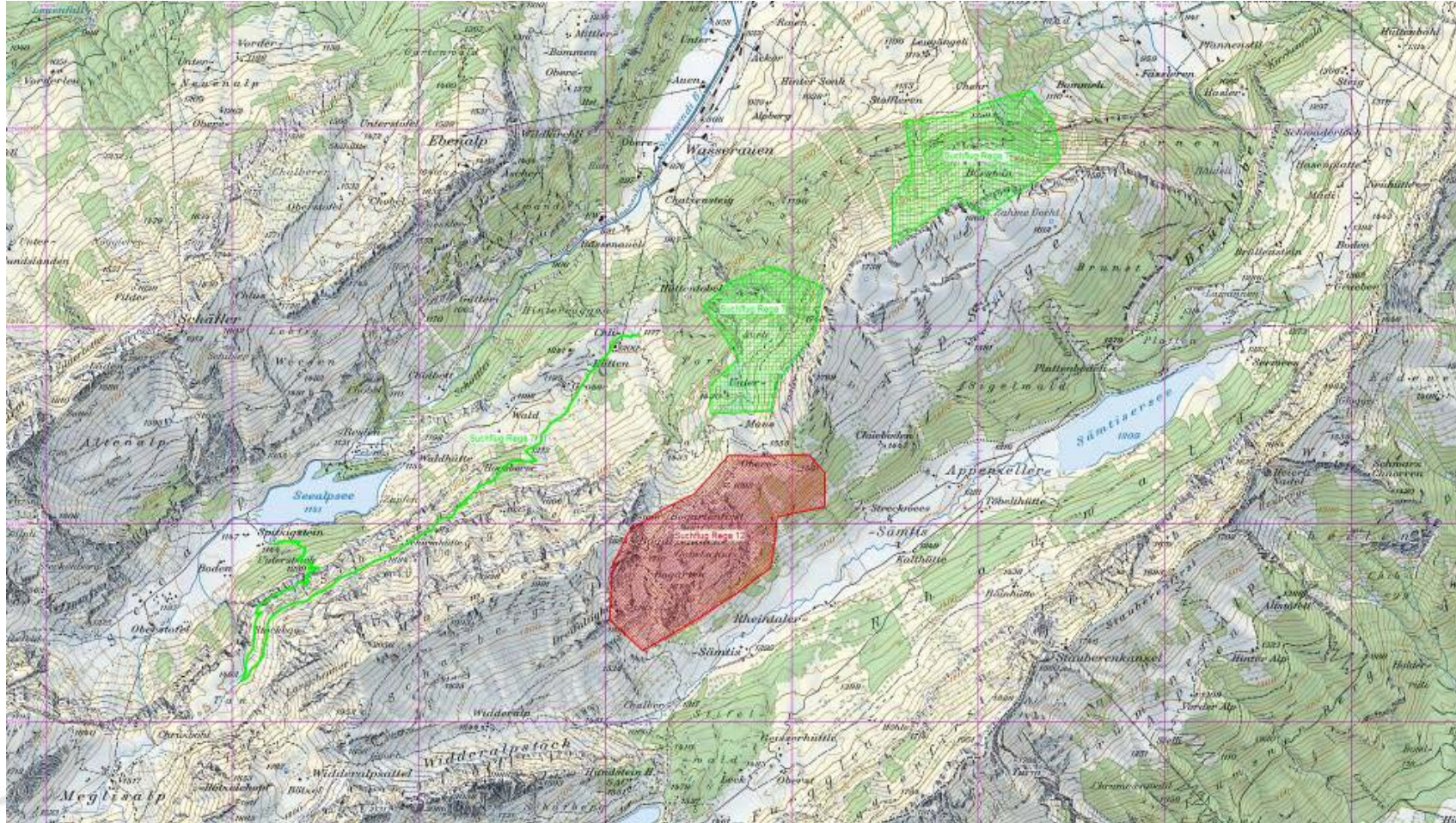
- Search team (mountain rescuers) [eye and ear]
- Terrain-search-dog teams
- Rega helicopter for the search flight
- SAR helicopter (FLIR)
- Search dogs (bloodhounds)
- Mobile phone shadow map / IMSI-Catcher used for signal location

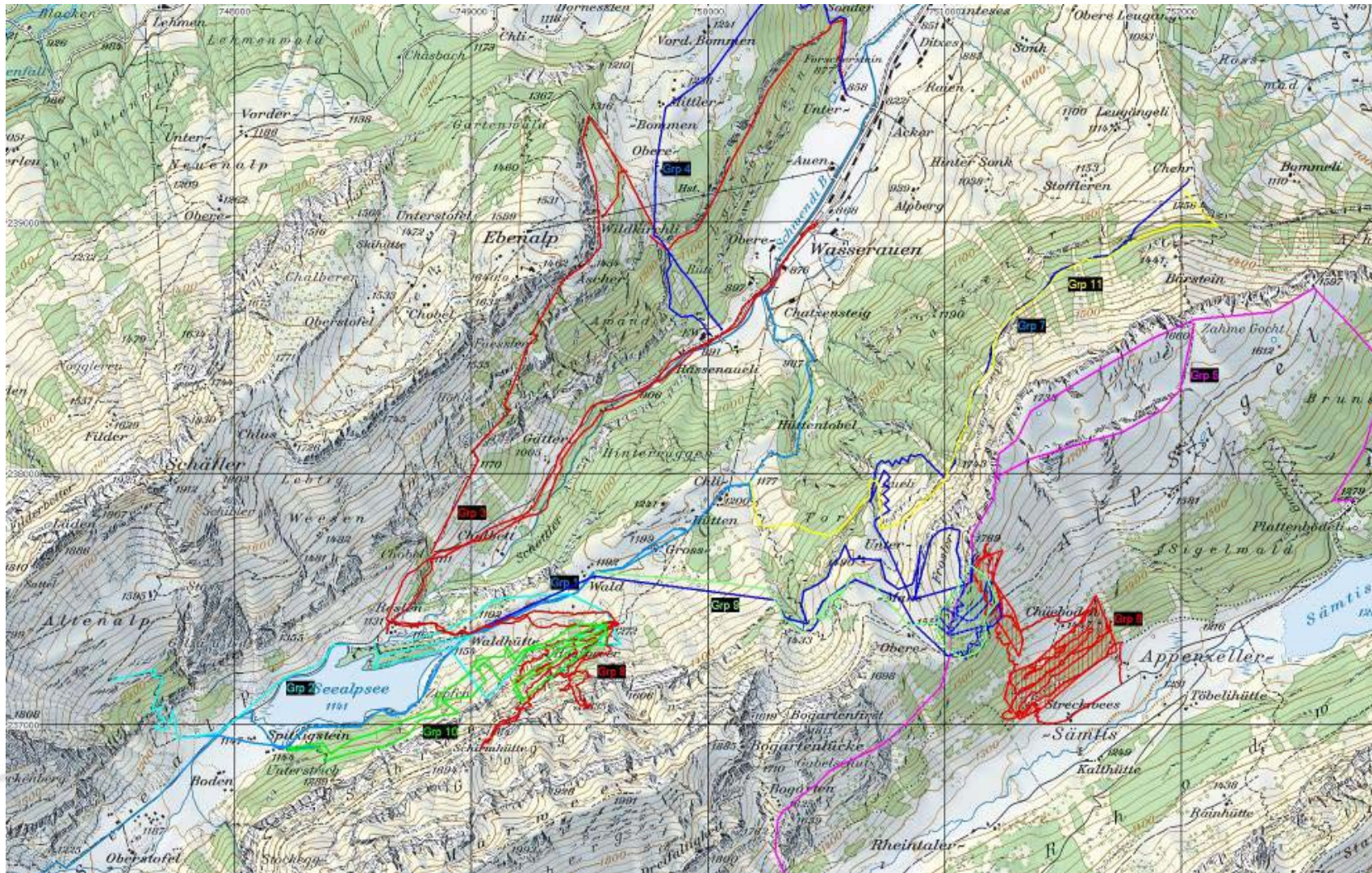
- GPS
- Radio relay

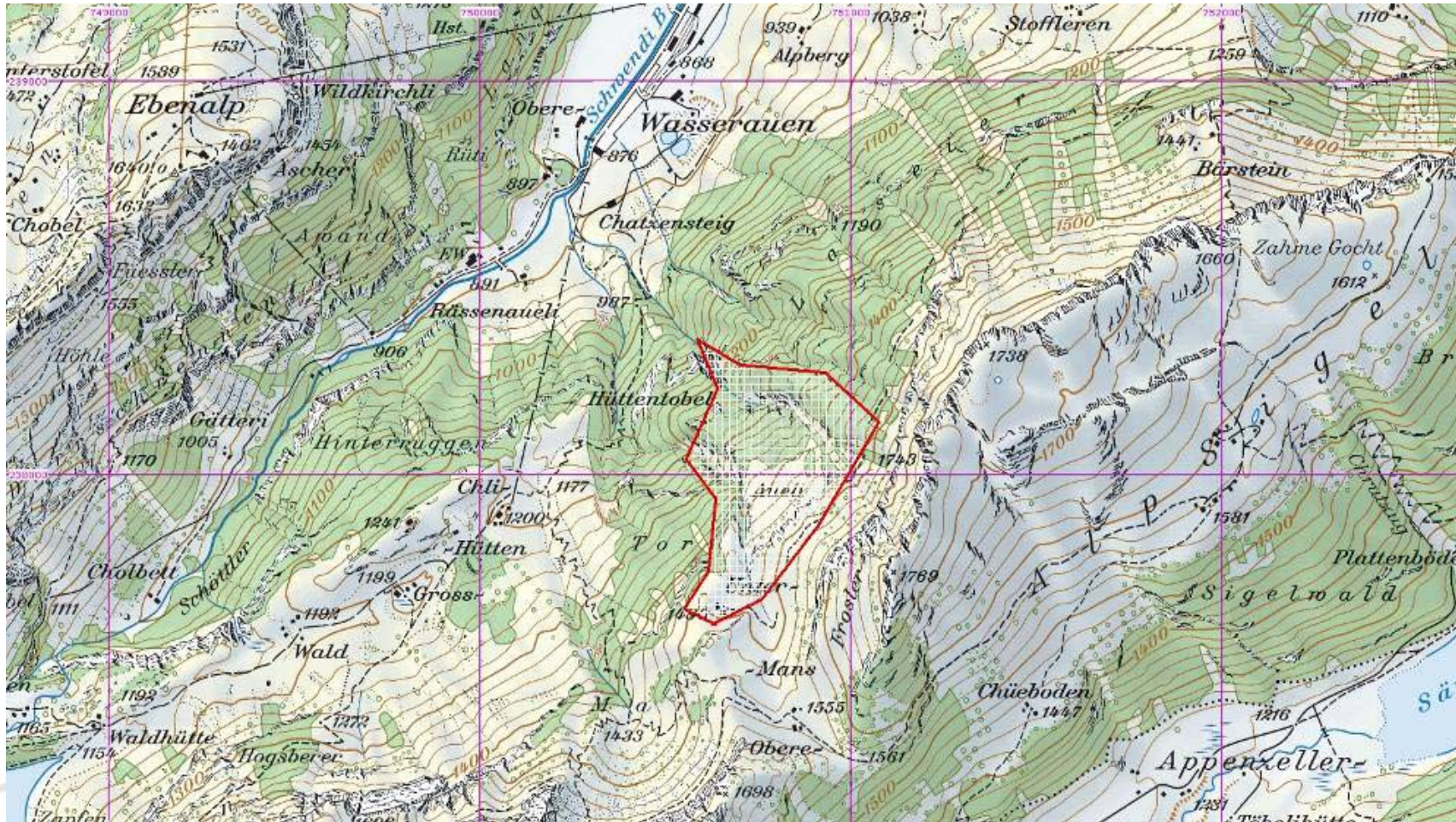
Front command post

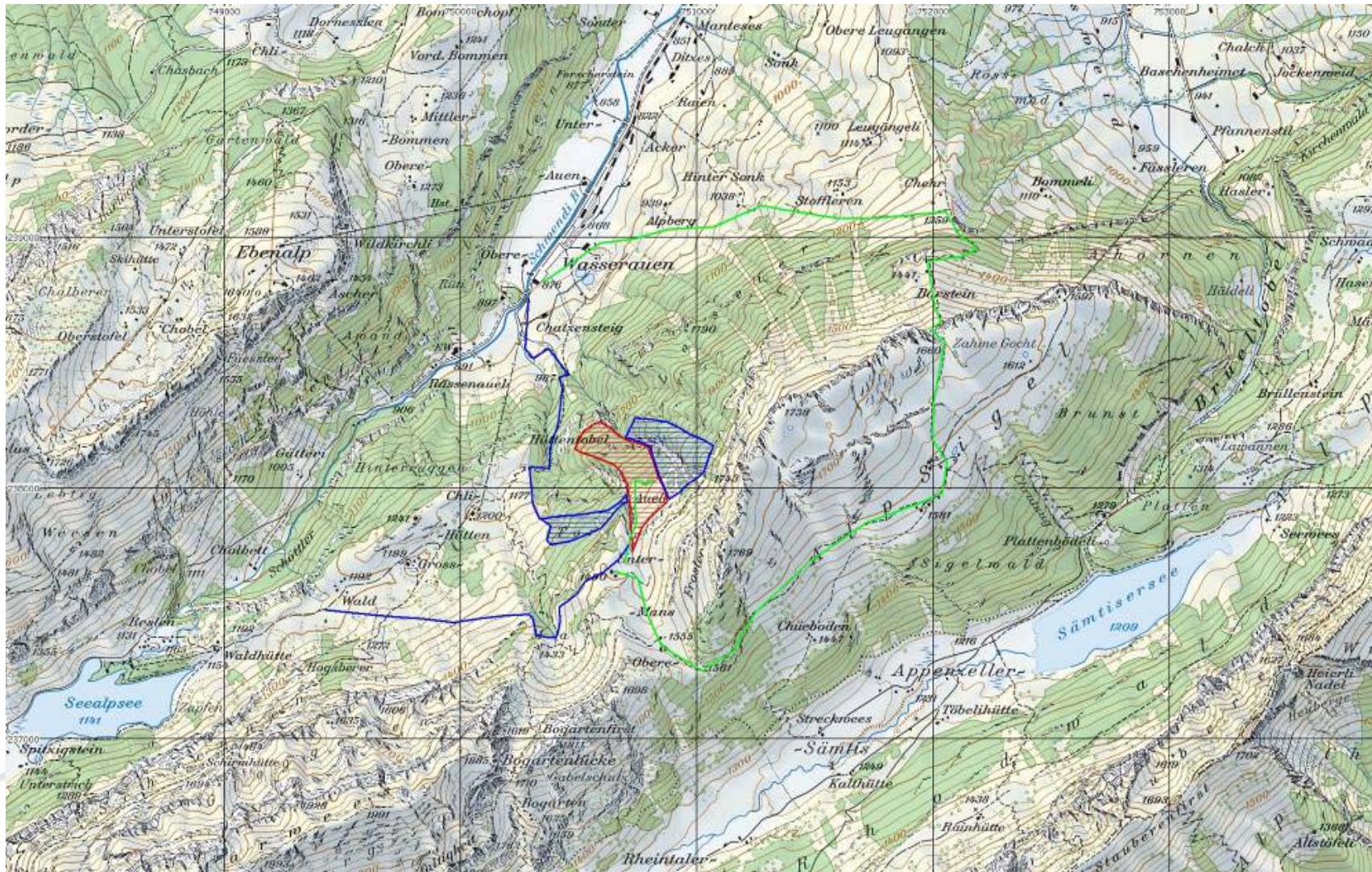
- Head of Operations + Police
- Optimum: at police command post (infrastructure)
Real: moved to the vicinity of the operations area
- Keeping up-to-date the map of the site, team list, log and order list
- Communication with search team via radio, possibly mobile phone, and with partner organisations in person, via radio and mobile phone (new Polycom)

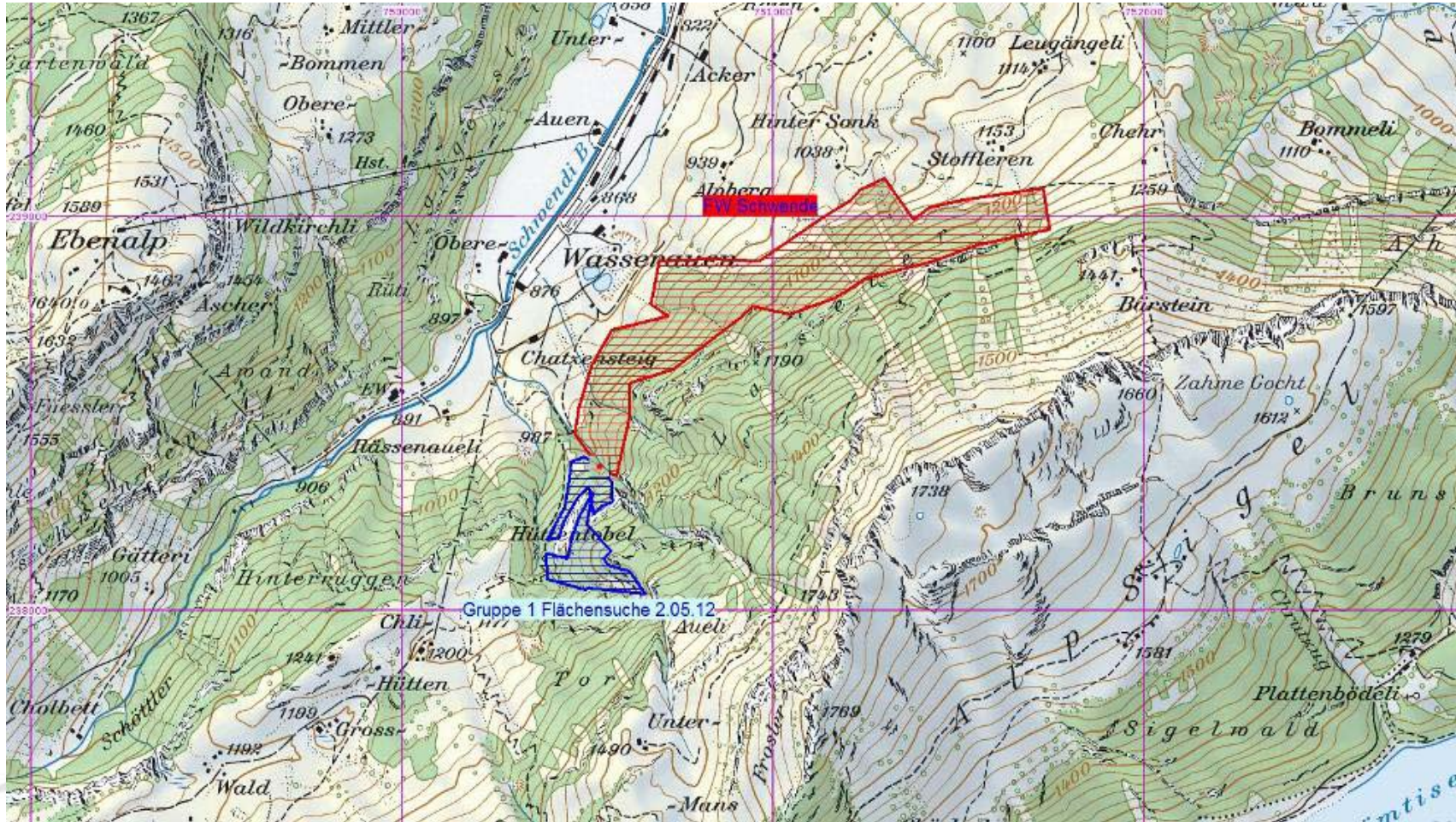


















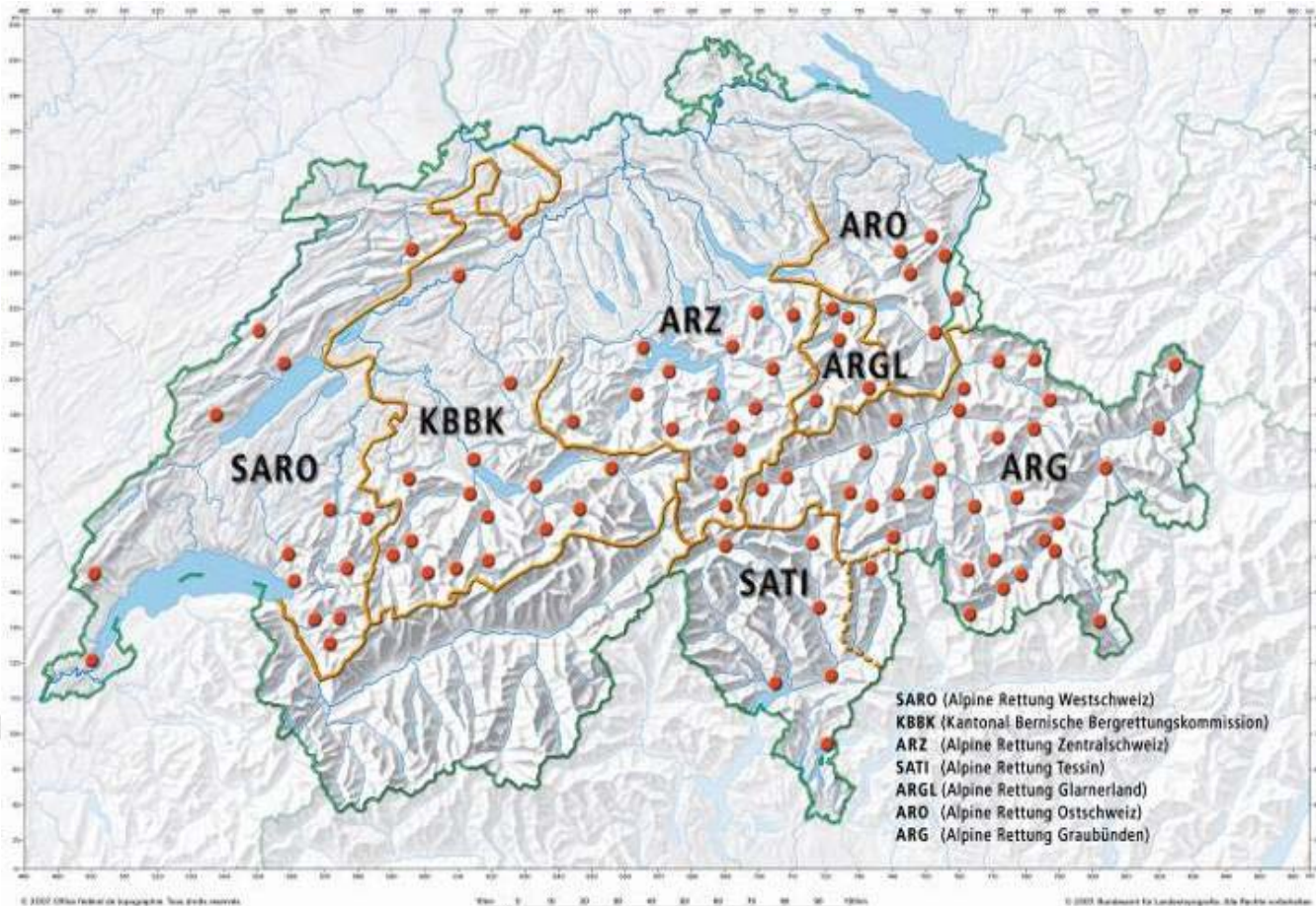




Questions??



3. Uniformity in the training, management and tactics for search operations



4. New “Alpine Rescue Manual”, Chapter 4.2 “Search Operations”

1. Introduction
 2. Fundamentals
 3. Improvised rescue techniques
 4. Rescue techniques (Parts 1-3)
 5. Avalanches
 6. Helicopters
 7. Rescue dogs
 8. Incident command
 9. Communication
- 420



Total number of pages

Fig. 4.01 Organisation chart

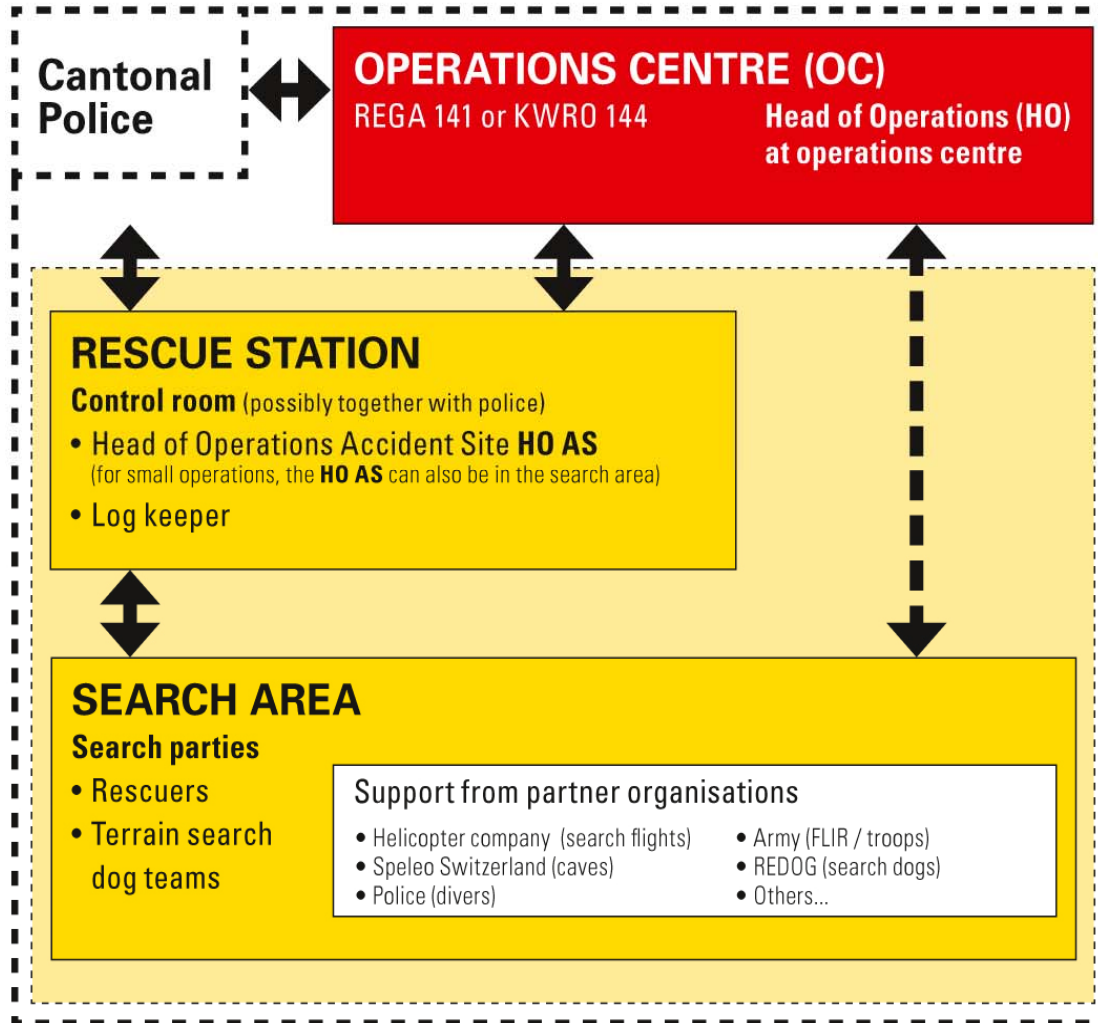


Fig. 4.02 Search operation flowchart

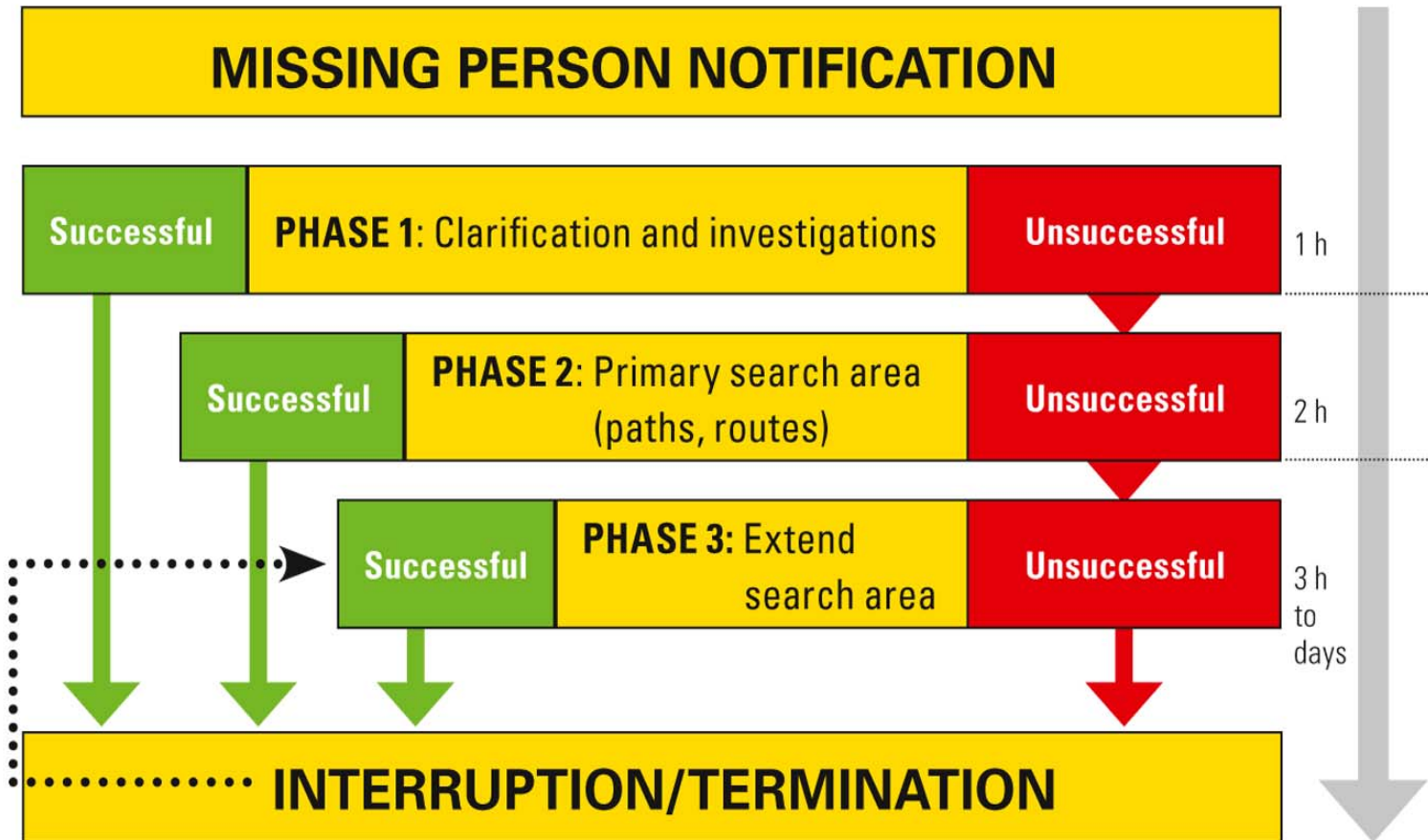
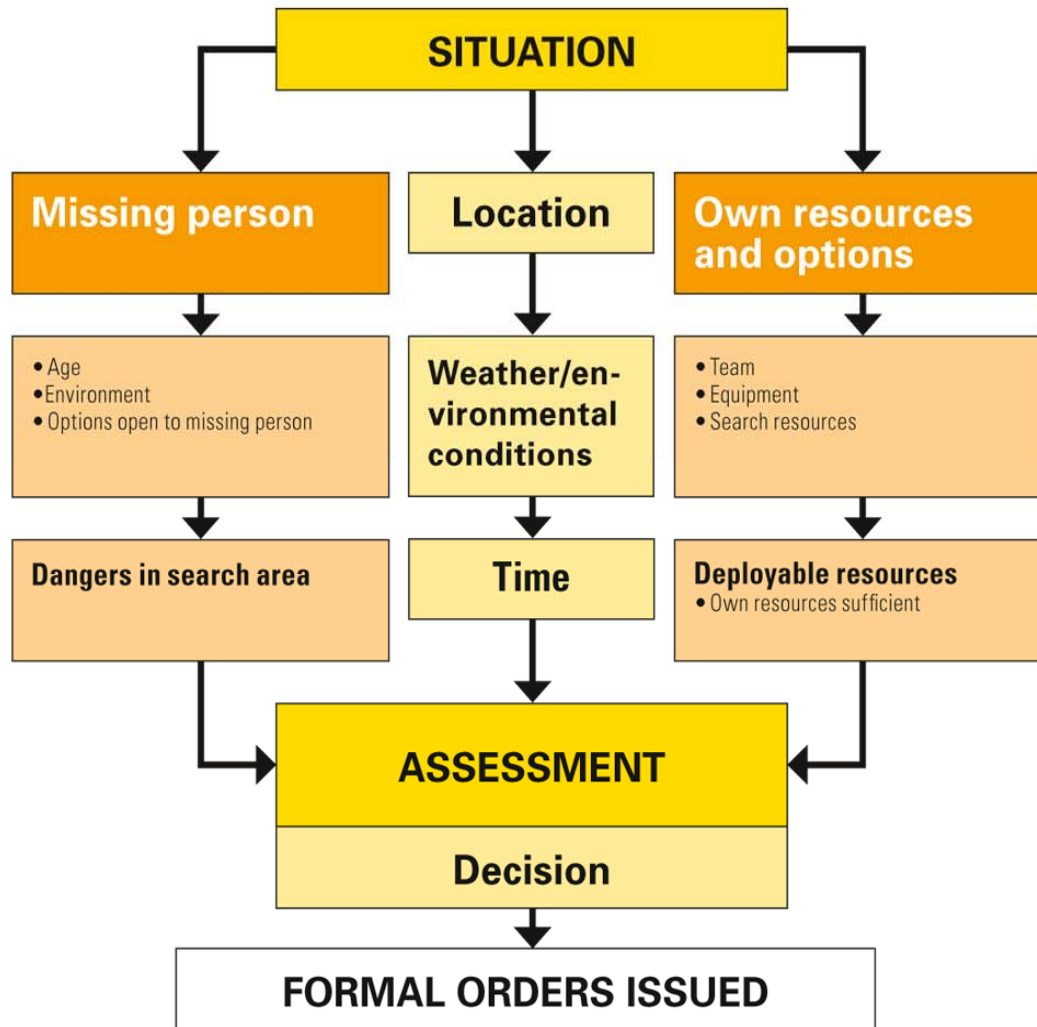


Fig. 4.03 Assessment of the situation in a search operation



Thank you!

