



ICAR 2022

Use of a COP system – CRIMSON TACTIC
Collaborative software to help SAR
coordination in mountain areas





Mountain rescue has never been the task of a single entity. In the event of any mountain tragedy, a chain of complementary skills is involved.

For all small-scale interventions, the operation does not involve a sufficient number of rescuers to set up a multi-service coordination. But what about a large-scale event?

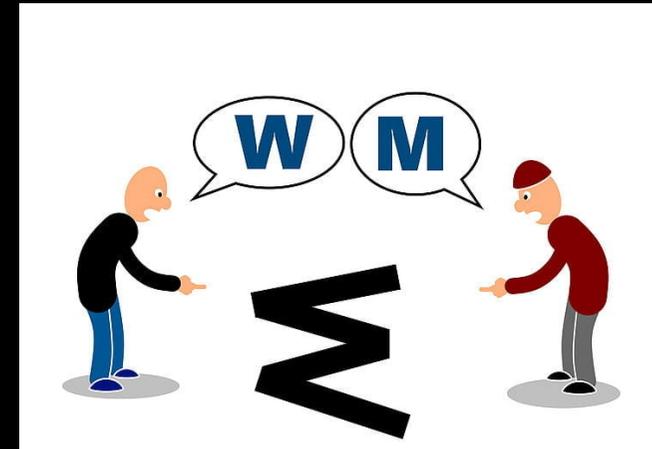
- Possible actors
 - Fire fighters
 - Police Forces / militaries
 - Associations of rescuers
 - volunteers
 - Local authorities
 - Health organisations...

- Who is leader ?
- Who coordinates the operation ?

And the guy who asked the repair garage if they had any "710" for his car. They had no clue. He *insisted* he needed 710 urgently, and that they would definitely have some. They had never heard of it, so he offered to show them what he meant.



- ARE THEY ALL AWARE OF WHAT HAPPEN ?
- DO THEY UNDERSTAND THE SAME THING ?



REFERENCIAL ?

- The frames of reference used by everyone are often different in several areas:
 - Time: not all organisations work on the same timeline
Example: A minister wants to know the number of victims even before help arrives
 - Language: Each group has its own verbal and potentially graphic language
 - Vision: What view does each actor have (a person, a house, a bridge, a city, a region...)?

COORDINATION

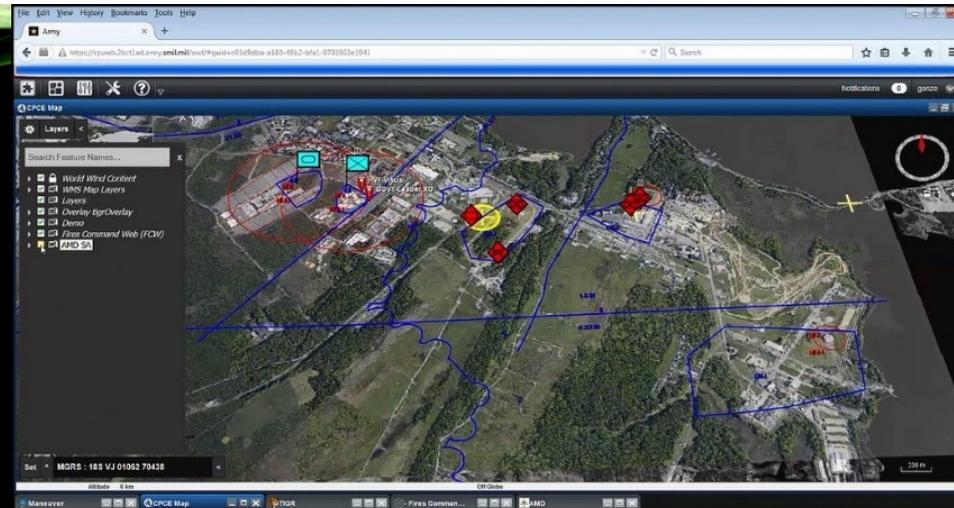
- **Coordinating major events is already a challenge in general, but in mountainous areas the difficulties are multiplied.**
 - - Number of different important actors
 - - Different communication systems
 - - Visibility problems
 - - Access problems
 - - Inserting 3D vectors
 - - Weather



THE NEED OF A COP COMMON OPERATIONAL PICTURE

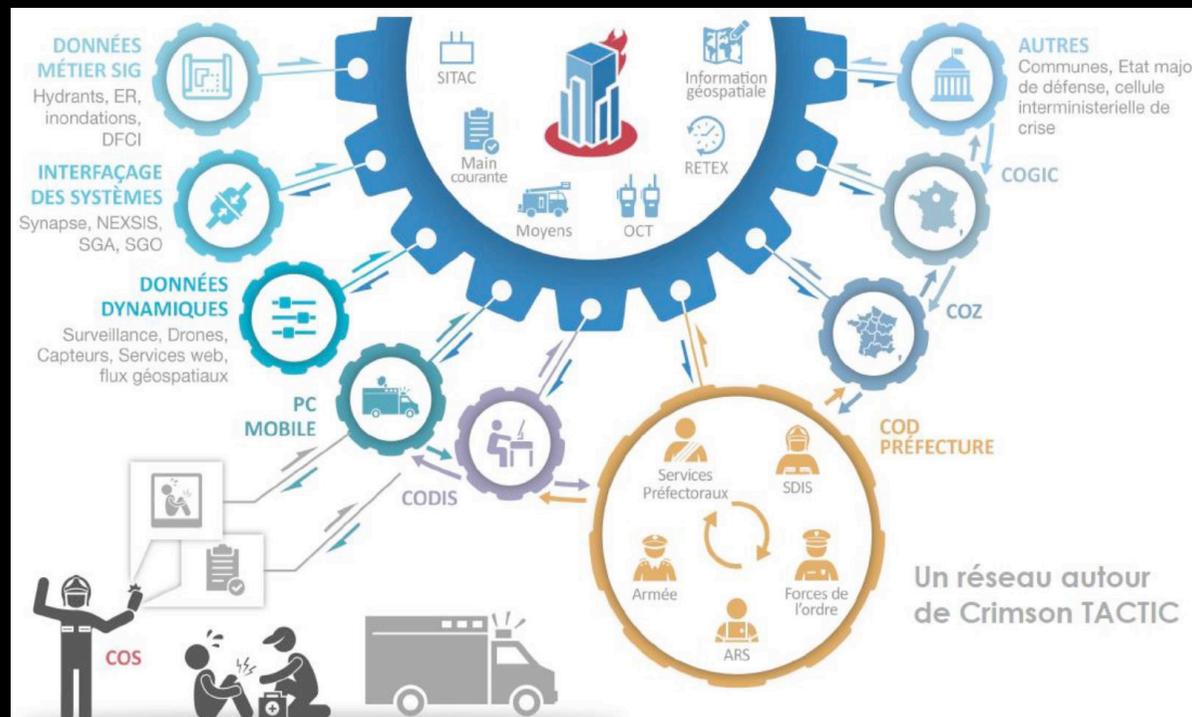
- In the context of traditional civil protection interventions, many countries are beginning to set up collaborative field coordination systems, also known as COPs.
- These systems, which come from the military domain, must allow ALL the actors in an operation to share a comprehensible situation in real time. In the same way as the military, civil protection actors need to position the current event in a schematic and cartographic way. This is what is known as SITAC (Situation TACTique).

WHAT ?



- A common operating picture (COP) is a display of relevant information, enabling users in command and control and on the field to make accurate and informed decisions based on situational awareness. A COP means that personnel from all relevant organizations and locations have the same information, thus facilitating collaborative planning and execution of decisions.
- An operations center's COP is based on situational awareness obtained from a number of sources, which covers the current status and evolving situation, resources needed, and the availability and location of said resources. This information can then be shared with neighboring jurisdictions who can benefit from the information.

- Co-designed and Produced by the CS company, CRIMSON is the result of 10 years of project development during European projects. Valabre has followed these projects since their inception in order to guide the product so that it meets the exact expectations of those working in the field!
- It is, so, clearly different that the ones used by military organisations because it has to be used by a lot of different kind of institutions !





09:25
01 août 2022



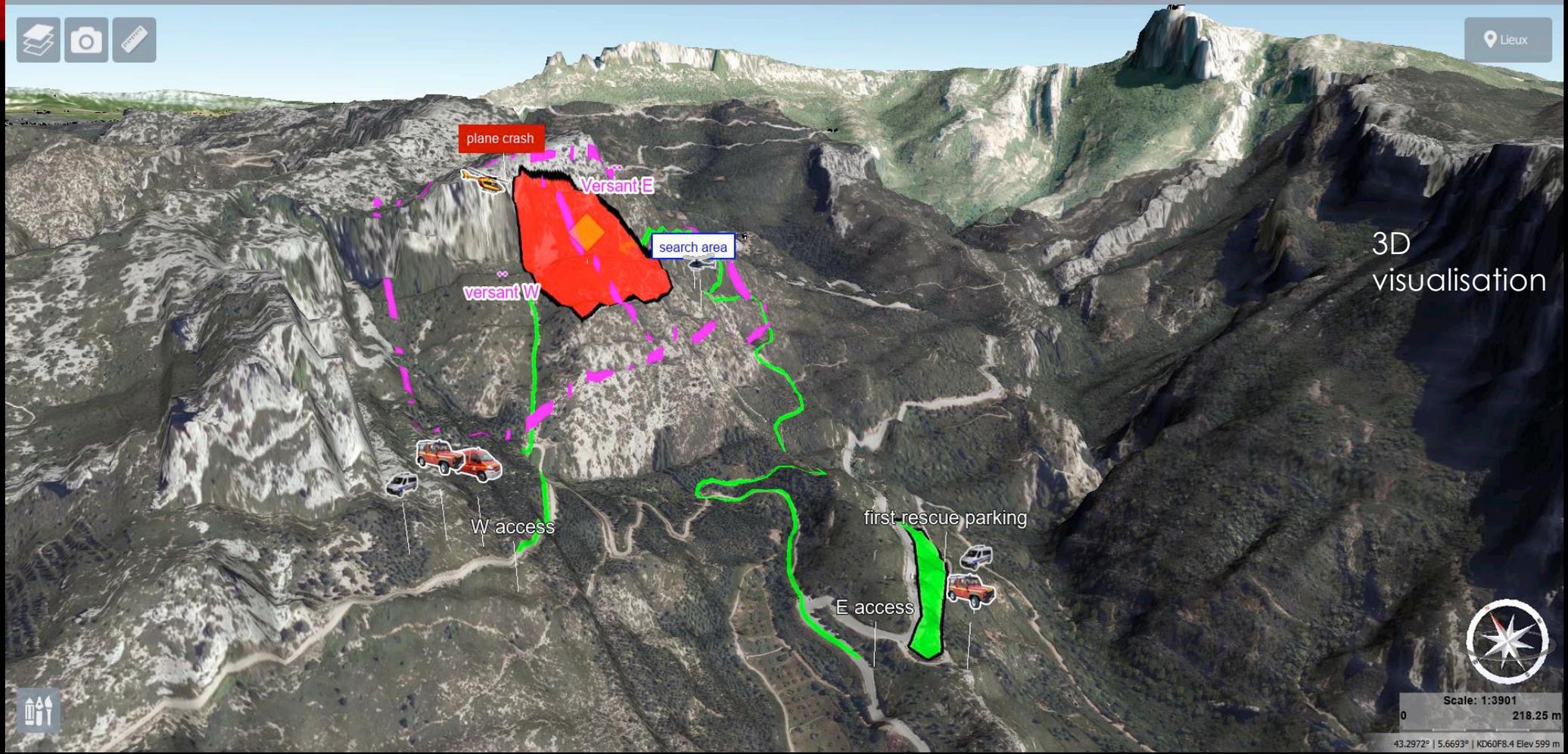
Auto-partage

Synthèse

3D Carte 3D



Lieux



3D
visualisation

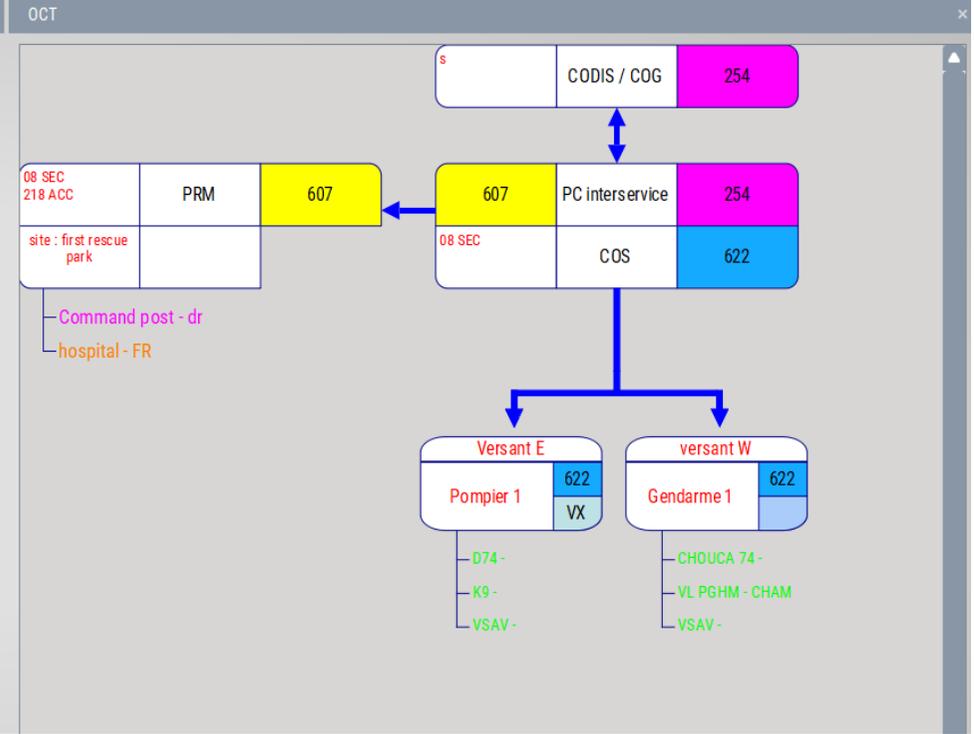
Scale: 1:3901
0 218.25 m
43.2972° | 5.6693° | KD60F8.4 Elev 599 m

Moyens Pompier

Recherche...

8 élément(s)

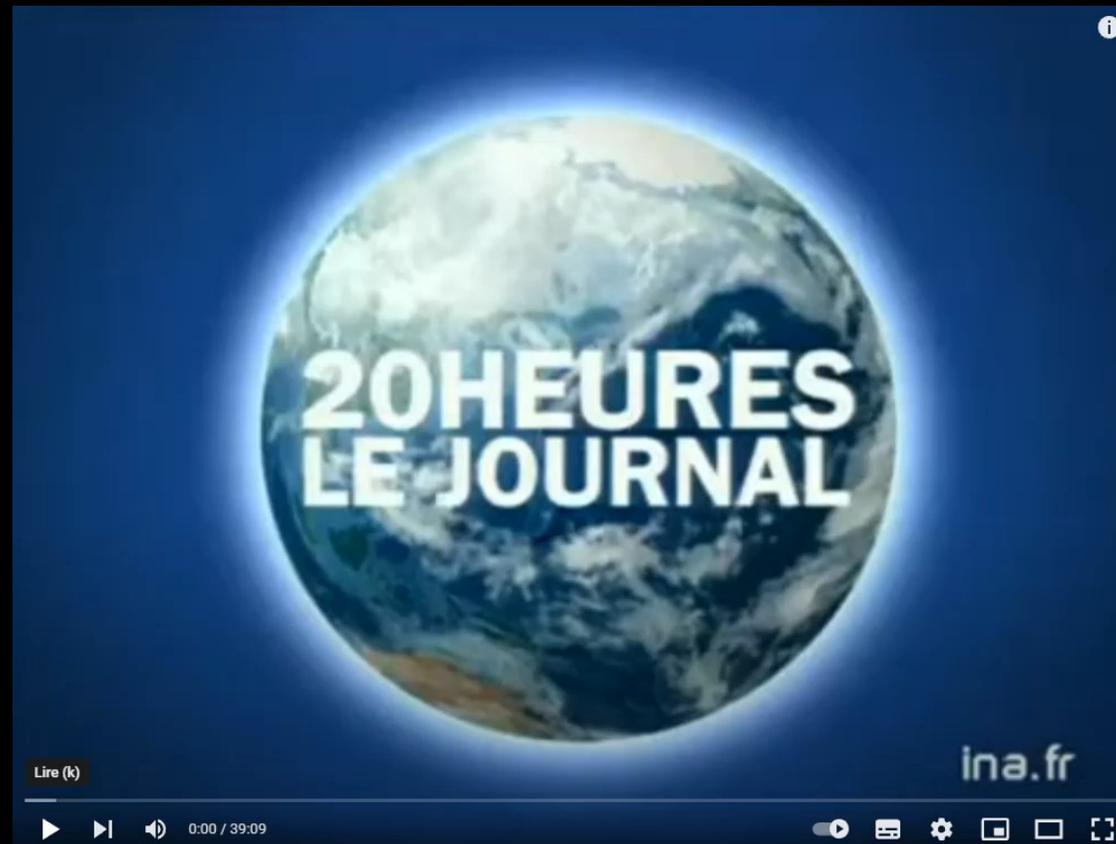
Symbole	Moyen	origine de la deman	Secteur	Demandé à	Point de transit	Engagé secteur	lésengagé secteu	Composition	Commentaire disponibilité
	CHOUCA 74		versant W			01/08 10:51:33		1	
	Command post	dr	CRM					1	
	D74		Versant E			01/08 10:51:36		1	
	K9		Versant E			01/08 10:51:36		1	
	VL PGHM	CHAM	versant W			01/08 10:51:37		1	
	VSAV		versant W			01/08 10:51:38		1	
	VSAV		Versant E			01/08 10:51:40		1	
	hospital	FR	CRM					1	



Ressources managements

Radio and sectors managements

SCENARIO AVALANCHE



SITUATION

- Situation choosed :
 - Avalanche crossing a village
 - Secondary run crossing access road

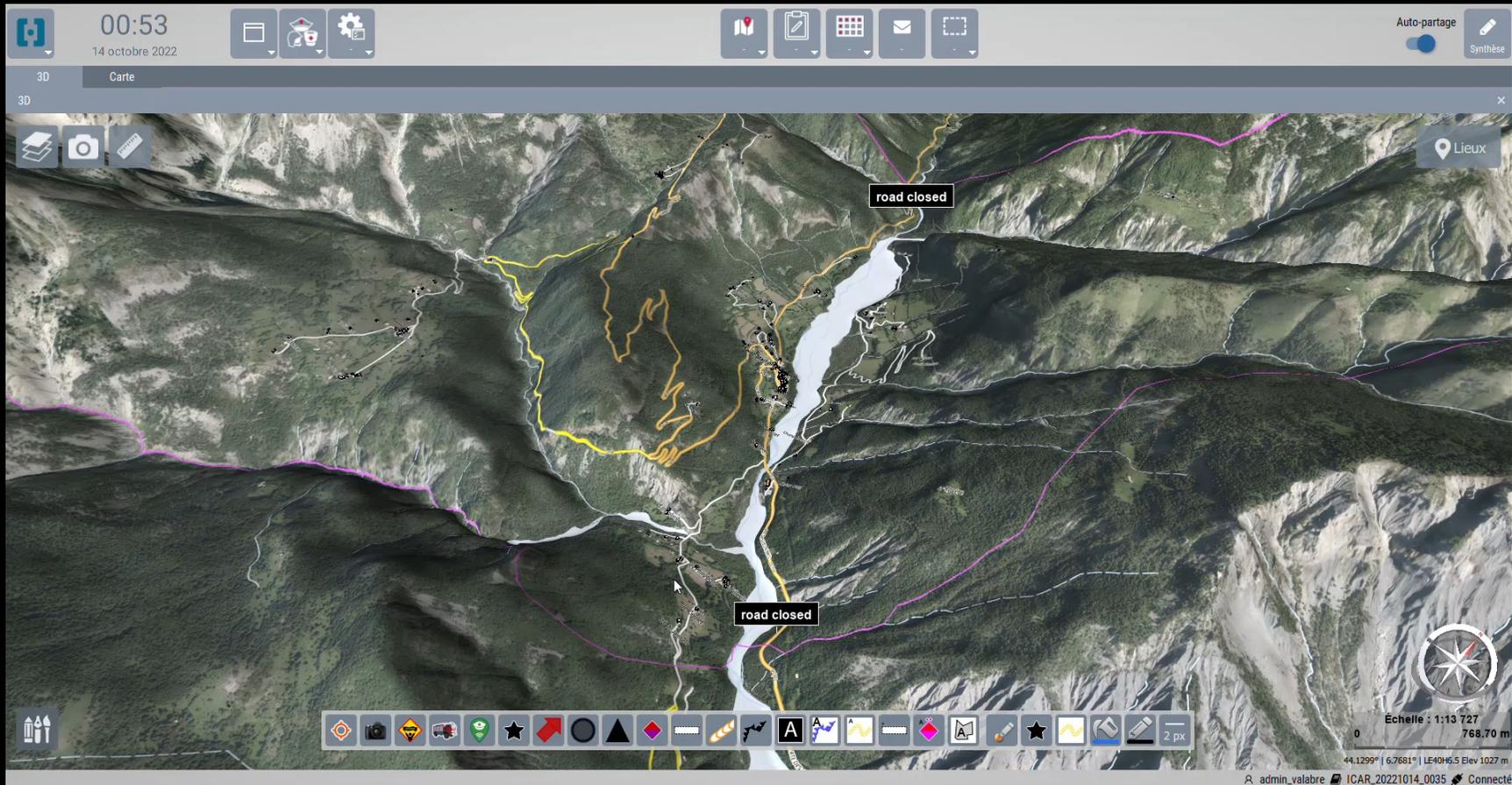
- Weather can allowed helicopter's flights
- Firts rescue team : Mountain rescue , fire fighters, PGHM, CRS
- Coordination : Command post Fire fighters
- Medical support : SAMU

RESSOURCES

- MEANS :
 - 12 houses partially collapsed
 - 30 victims

- 35 trucks coming from different organisations
- 6 helicopters
- 120 rescuers

WHERE AND WHAT IS THE PROBLEM ?



00:53
14 octobre 2022

3D Carte

3D

Auto-partage
Synthèse

Lieux

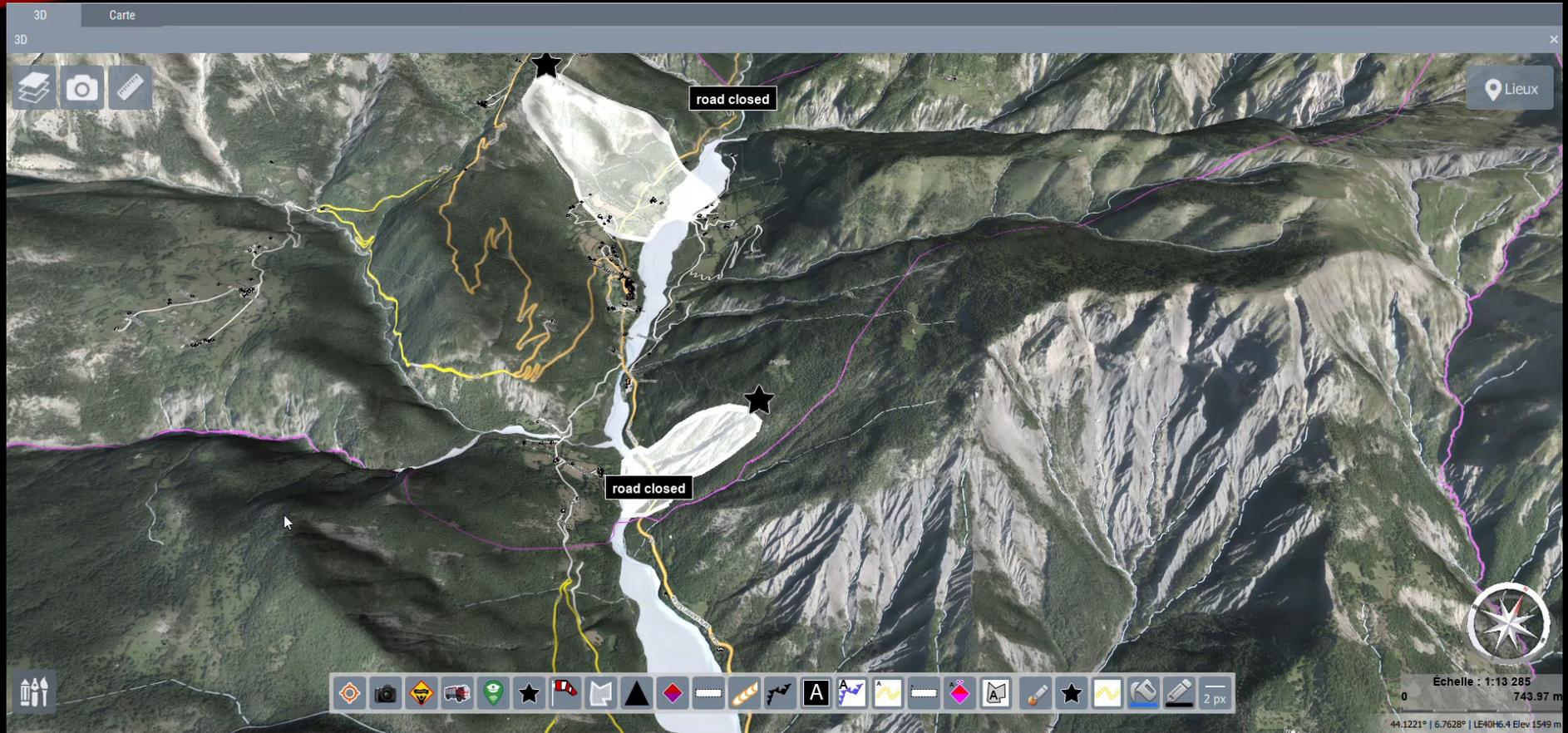
road closed

road closed

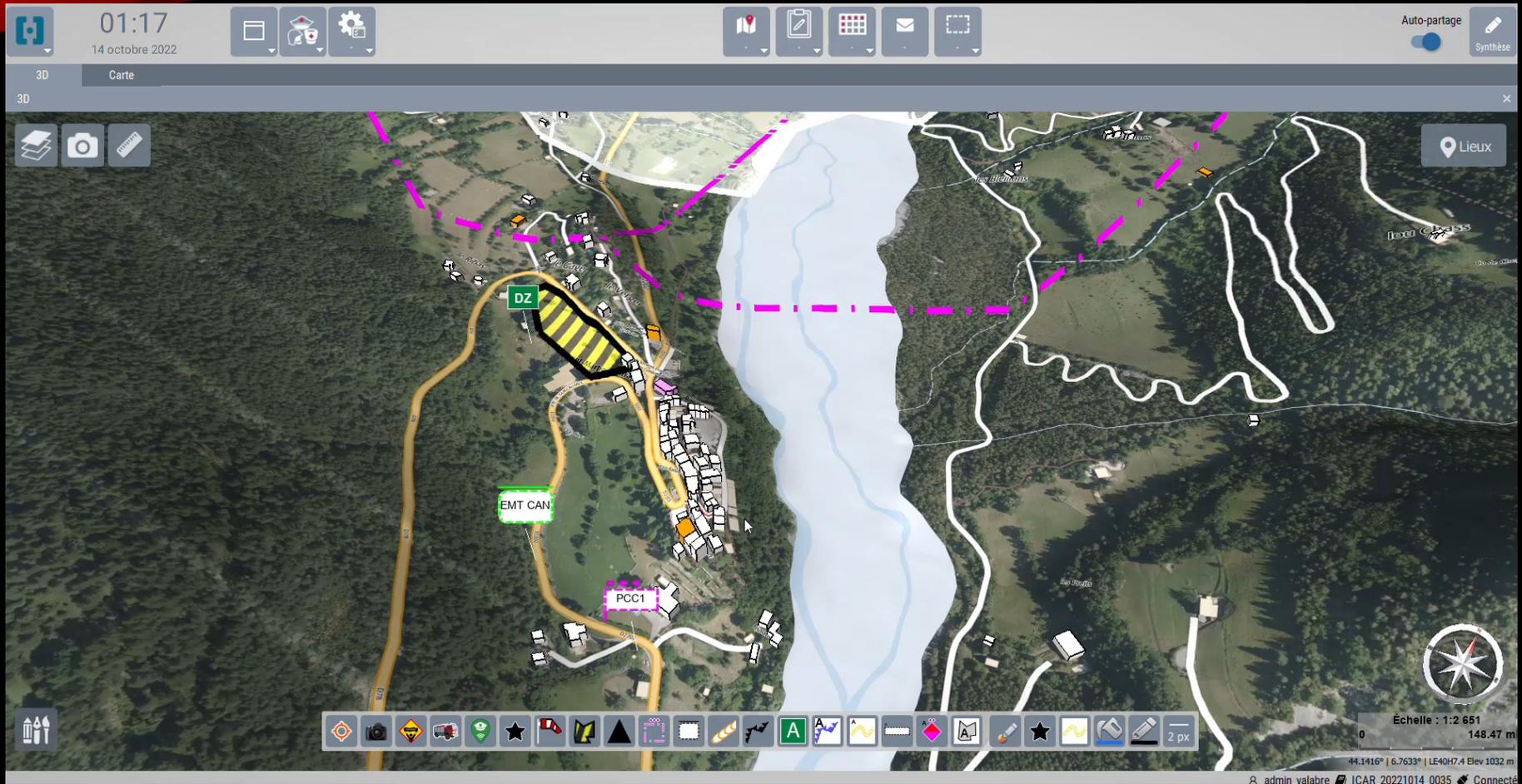
Echelle : 1:13 727
0 768.70 m

44.1299° | 6.7661° | LE0H6.5 Elev 1027 m
admin_valabre ICAR_20221014_0035 Connecté

SECTORS



MEANS MANAGEMENT



01:17
14 octobre 2022

3D Carte

Lieux

DZ

EMT CAN

PCC1

Échelle : 1:2 651
0 148.47 m

44.1416° | 6.7633° | LE40H7.4 Elev 1032 m

admin_valabre | ICAR_20221014_0035 | Connecté

HALF TIME GLOBAL VISION

02:15
14 octobre 2022

Auto-partage
Synthèse

3D
Carte

The map displays a 3D view of a mountainous area with several key features and labels:

- USAR BMP**: A green label at the top center.
- SAR VVS**: A pink label below USAR BMP.
- SAR LAST**: A pink label to the right of SAR VVS.
- EMT CAN** and **WGRIMP PRA**: Green labels below SAR VVS.
- GSAP G1**: A green label below EMT CAN.
- PRIVÉ/ÉDIF** and **SECUR/GAP**: Pink labels below GSAP G1.
- PCC1**: A pink label below the previous labels.
- CRM rty**: A white label below PCC1.
- TRACTOR MAYOR**: A white label below CRM rty.
- VPI ERT**: A white label below TRACTOR MAYOR.
- road closed**: Two black labels, one at the top right and one at the bottom right.
- NW 45 km/h**: A black label on the left side of the map.
- Lieux**: A location search icon in the top right corner.
- Echelle : 1:19 315**: A scale indicator in the bottom right corner.
- 0 1081.62 m**: A distance and elevation indicator in the bottom right corner.
- 44.1208° | 6.7551° | LE40G6.3 Elev 1436 m**: Geographical coordinates and elevation data in the bottom right corner.
- R_admin_valabre | ICAR_20221014_0035 | Connecté**: User and session information in the bottom right corner.

Map interface includes a toolbar at the bottom with various icons for navigation and editing, and a compass rose in the bottom right corner.

HOW IT IS USED IN FRANCE

- 35 fire dept / 98
 - 3 zonal HQ
 - 5 connectors to other software to share datas in real time
 - Use 24/365 in HQ
 - 95 % satisfaction because created by users
 - In validation to be used during olympic games PARIS 2024.
-
- Work on PC or android with 3g/4g or satellite connection

THANK YOU FOR YOUR ATTENTION

- Cne Mehdi DOUKARI (SIS74)



- LCL Philippe MERESSE (VALABRE)

