



EARTHQUAKE IN CROATIA 2020

Hrvatska gorska služba spašavanja -HGSS

Croatian mountain rescue service - CMRS

ICAR 2022

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HGSS-CMRS

- National, voluntary, non-profit organization
- Operates in the name of the Republic of Croatia-public authority
- Part of civil protection
- 1150 members, 25 teams/stations
- 800+ missions per year
- Legally responsible for all non urban SAR
 - Mountains, caves, rivers, canyons
 - Search missions, helicopter rescue, ...
 - “disasters and all situations in which usage of specialized skills and equipment is required for preservation of human life” HGSS Act.



EQ december 2020

- 28/12/2020, 06:28 local, 05:28 UTC
- 5,2 Richter magnitude scale

- 29/12/2020, 12:19 local, 11:19 UTC
- 6,2 Richter magnitude scale





Facts

- App. 105 000 inhabitants in the area
- 272 villages
- 58 000 damaged buildings
- 13 000 uninhabitable buildings
- 15 000 people in need of shelter
- 4,8 billion € – damage
 - 12 billion € in Zagreb EQ 2020

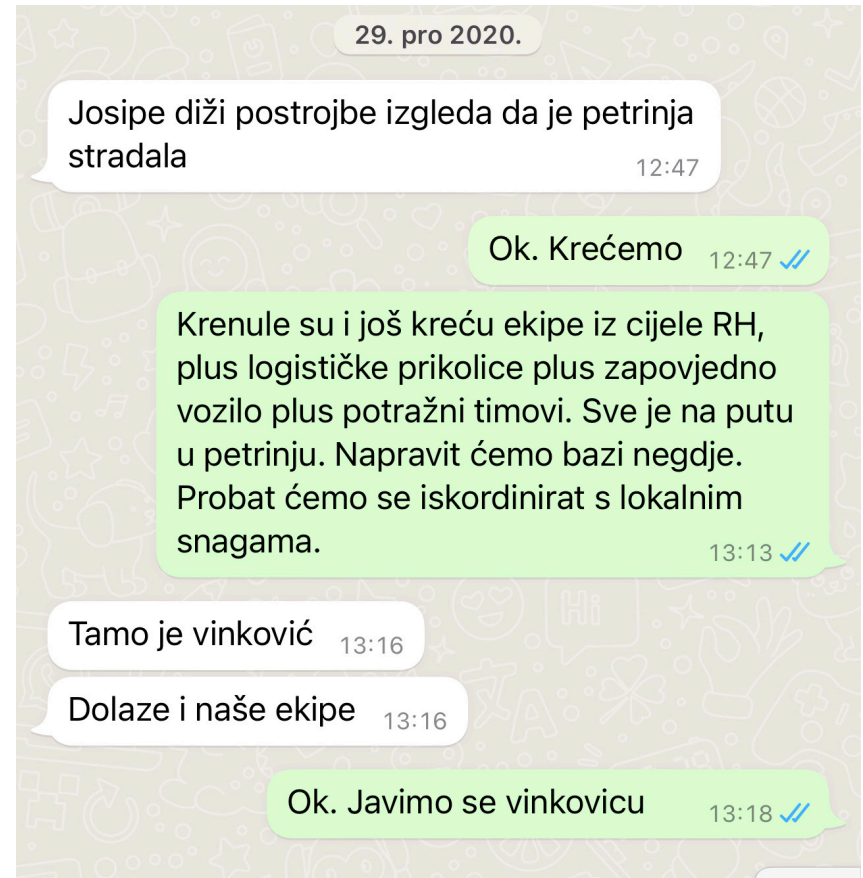
- 7 deaths
- 30+ injured



Mobilisation Deployment

- K9 training in progress
- In first 5-10' no comms
- Coordination with civil protection
- CMRS base in Sisak destroyed
- Immediate mobilisation of whole CMRS
 - All teams informed-whatsapp, telegram, ...
 - Lack of informations
 - Experience from march 2020-Zagreb EQ

- Where? How? Traffic? Infrastructure? BOO?



Mobilisation Deployment

- CP/BOO 1345 local – E entrance to Petrinja
 - Establish ICS – “search management”
 - Focus-unfocus / tunnelvision
 - It is not 1 incident or mission - late
- Arrival of resources
 - 286 members from 23 teams available at 1330 local
 - 192 from 13 teams “accepted”
 - 45 members, 2 K9 – 2 helicopters
 - 45 vehicles
 - 13 K9 on the field
 - 24-48-72 hours

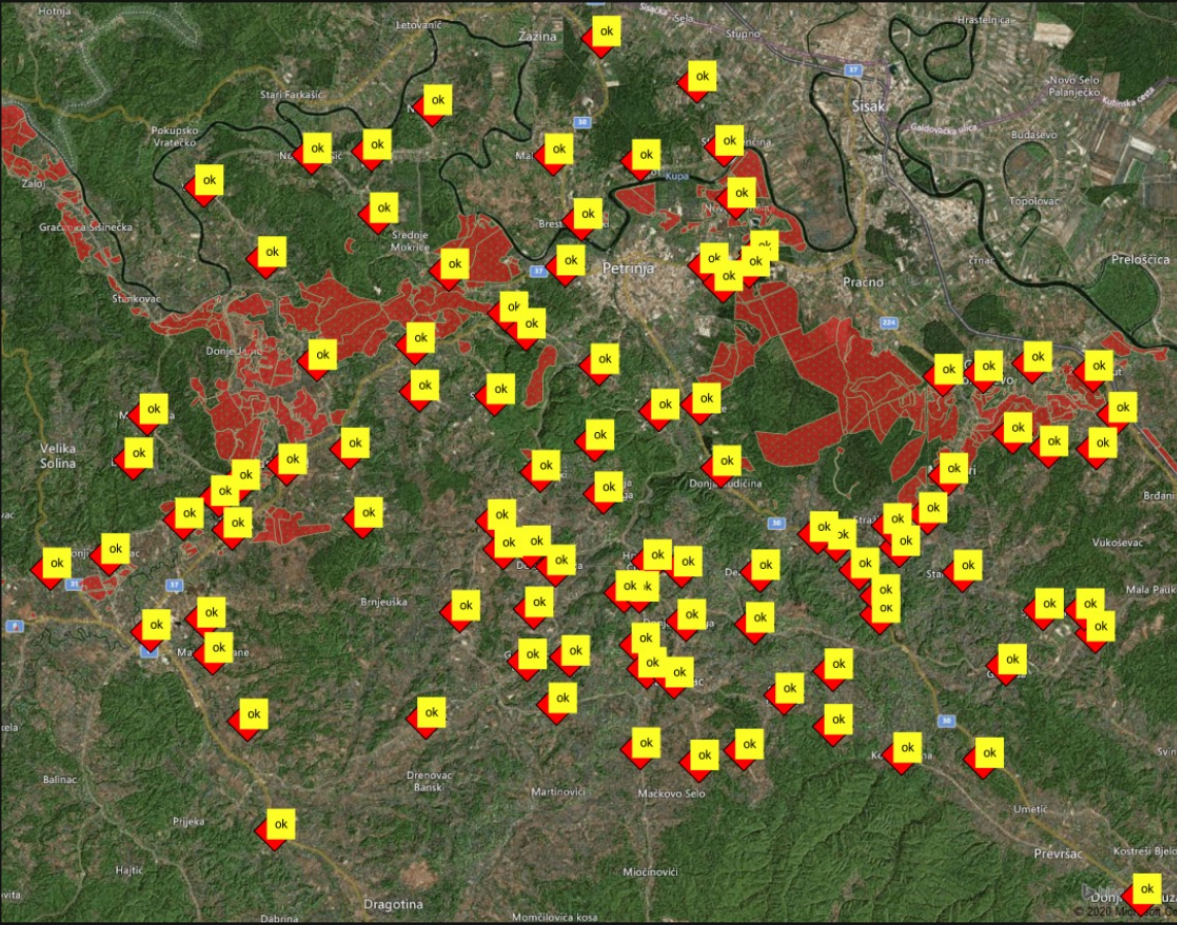


Rescue/Evacuation



K9





“bike wheel”
25 teams,
25 km

In 14 hrs 88
villages cleared

UAV-mapping-Copernicus



Evacuation / cultural heritage



Logistics/delivery/humanitarian aid



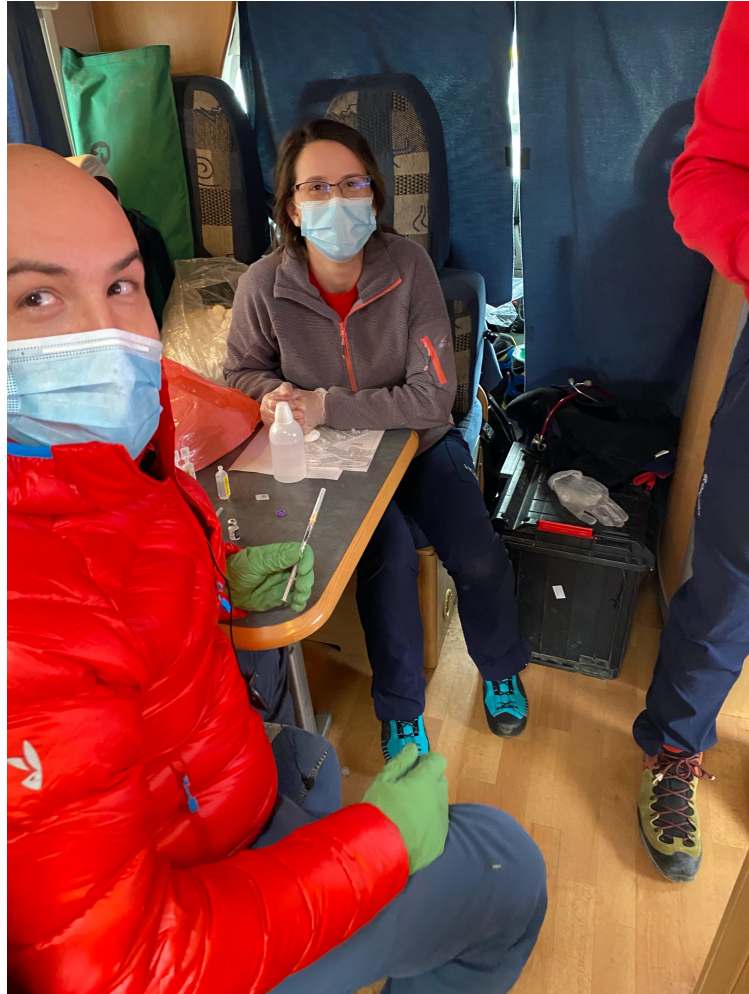
Rope access/cranes



General Pharmacy and ambulant

60 MD volunteers, 20 pharmacologist, 30 med.tech. - 30/12-06/01/2021





Mobilisation of NGO/civil organizations

4x4 clubs, cavers, climbers, rope access tech



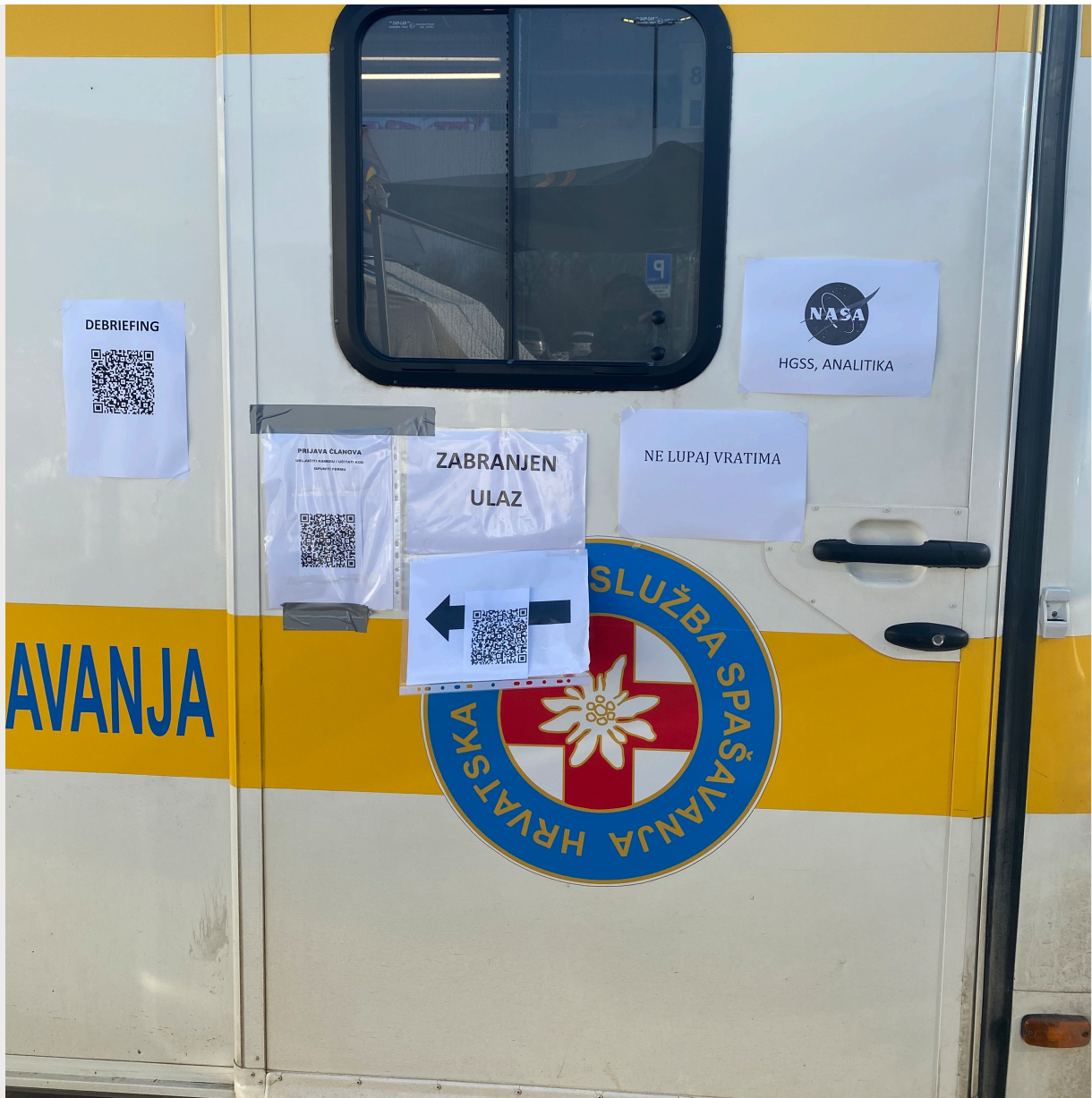
Operations-BOO

- 10-15 people in ICS structure
- 4 C&C vehicles + 1 for UAV units
- 5-7 people in logistics
- PR 1-2
- Liaison offc.
- 3-5 medics every day









DEBRIEFING
[QR Code]


HGSS, ANALITIKA

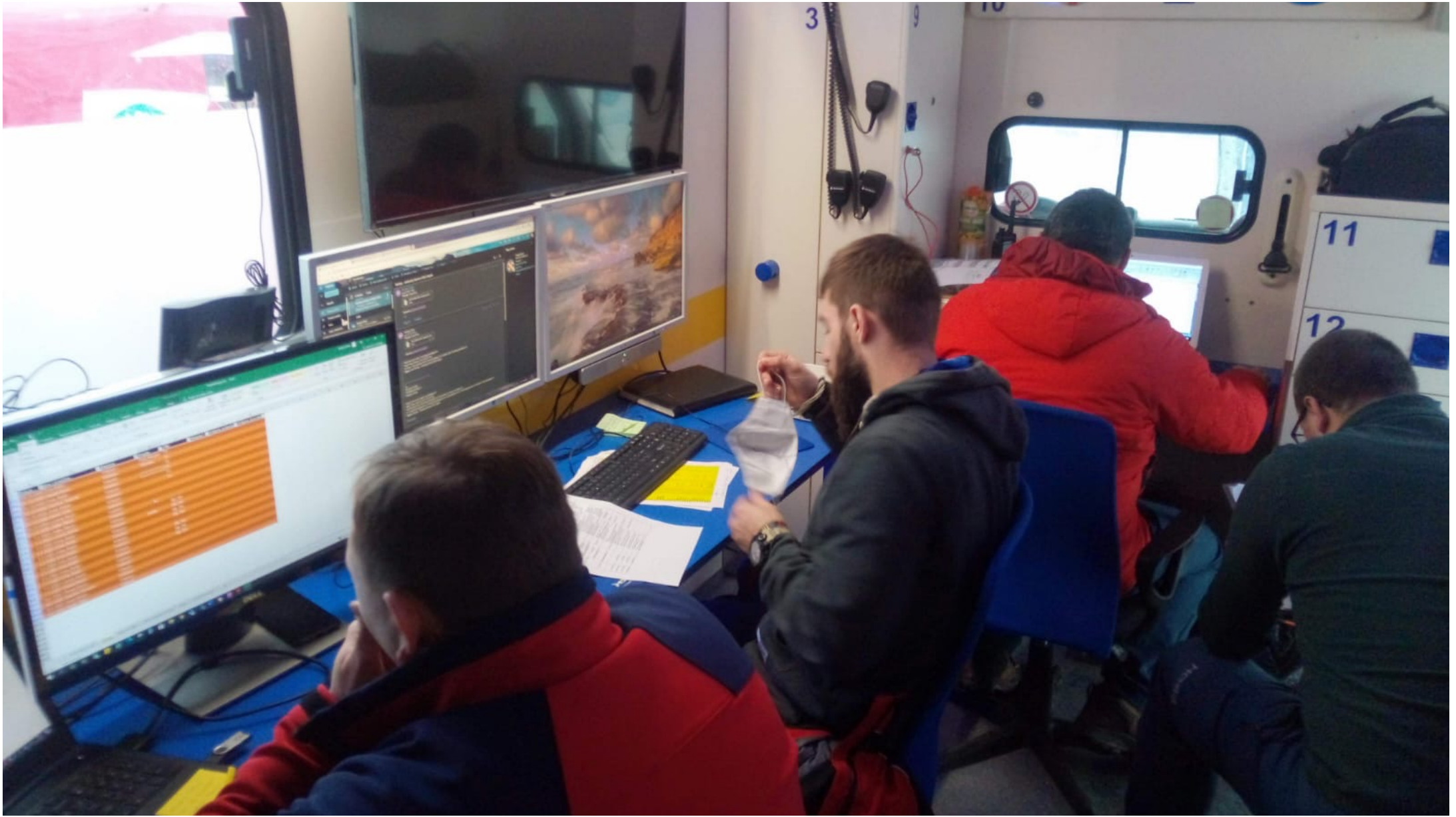
PRIJAVA ČLANOVA
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ZABRANJEN
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NE LUPAJ VRATIMA

AVANJA





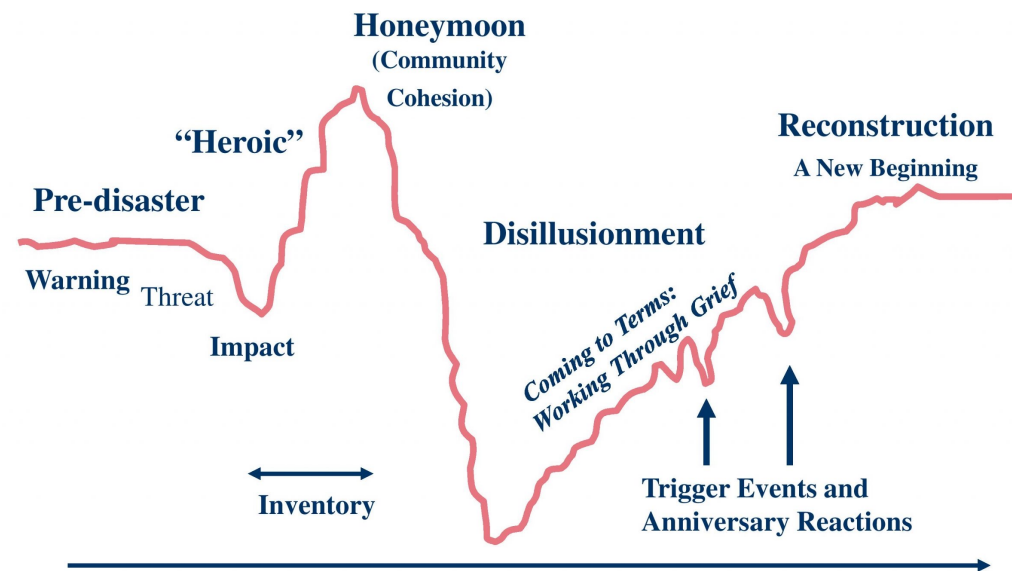
International help



Problems/challenges

- Lack of information in early phase
 - Led to doubtful decisions
- Holiday season
- Accessibility
- Social media
- Media - agenda
- Avoidance of responsibility
- Local government and preplanning

Typical Phases of Disaster



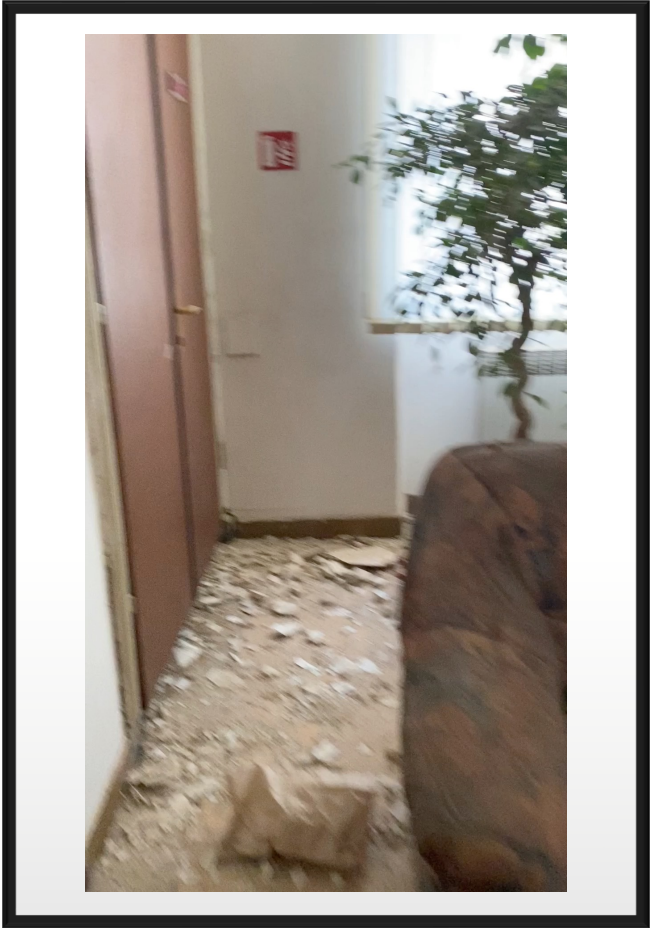
Summary

29/12/2020-12/02/2021

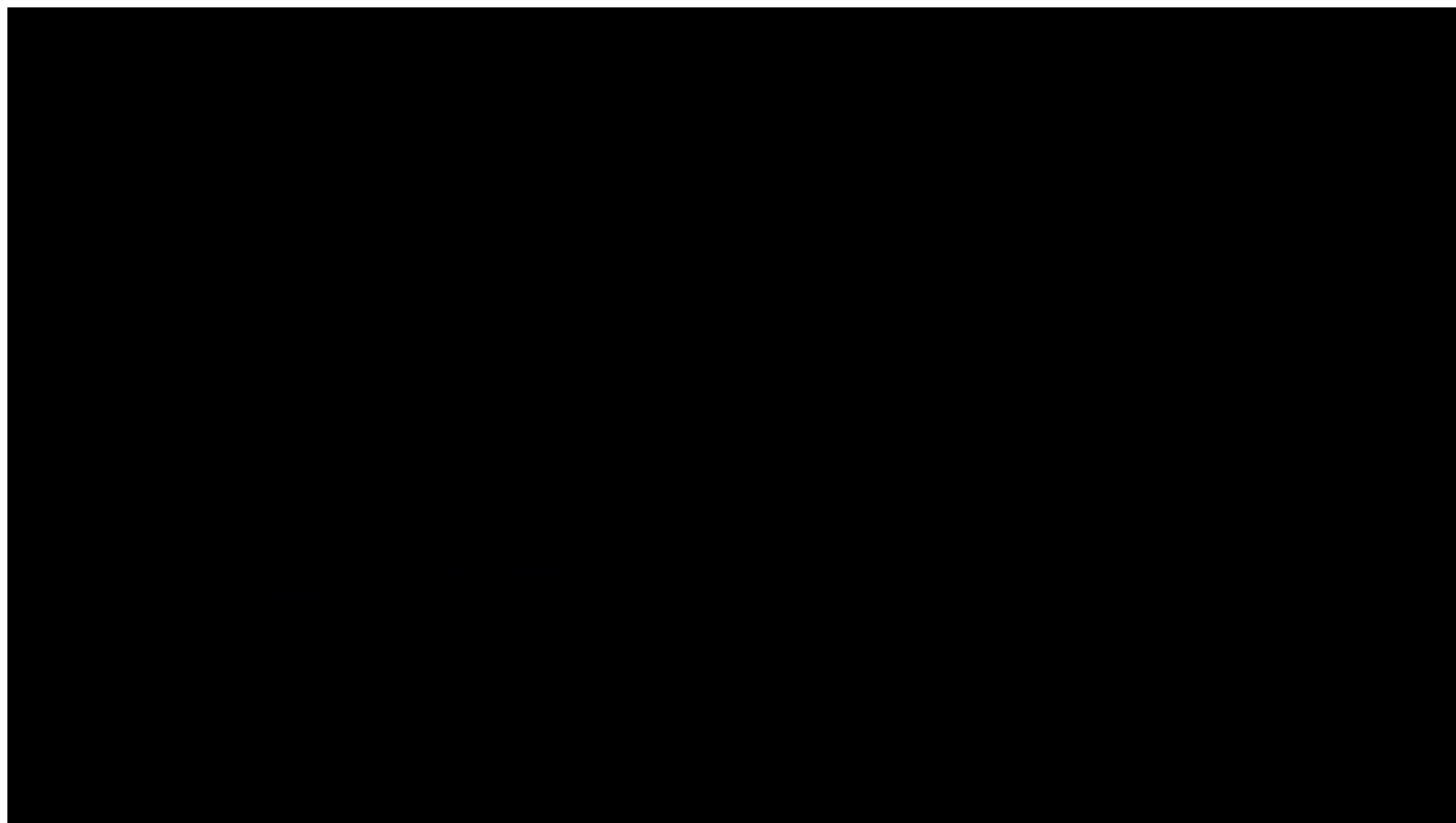


- 42 796 working hours
- 2920 members
- 2650 interventions
 - 1942 – “general help” – 42 per day
 - Support for ambulance, logistics, medical supply, reconnaissance
 - 682 – rope access -14 per day
 - 11 – rescue – 6 under rubble
 - 15 – medical emergencies











Thank you for your attention

