



Ongoing experience on AW in natural disaster: new international strategic approach

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What do we mean for.....

Accident?

"an **unforeseen or unexpected event** causing injury or damage"
(wounds, fractures, mutilations, luxations, hernias, traumatic shock, freezing, electric shocks, chemical causticization)

Disaster?

"an **unexpected event** that kills a lot of people or causes a lot of damages"
(natural, technological, human caused)

In any case they are **veterinary emergencies** requiring **immediate action**





Disasters

Natural

- Avalanche
- Drought
- Earthquake
- Epidemic
- Flood
- Landslide
- Severe storm
- Volcanic eruption
- Wildfire
- Tsunami, Hurricane

Technological

- Dam failure
- HAZMAT release
- Radiological
- Transport
 - Plane crash
 - Train derailment
- Urban conflagration

Human caused

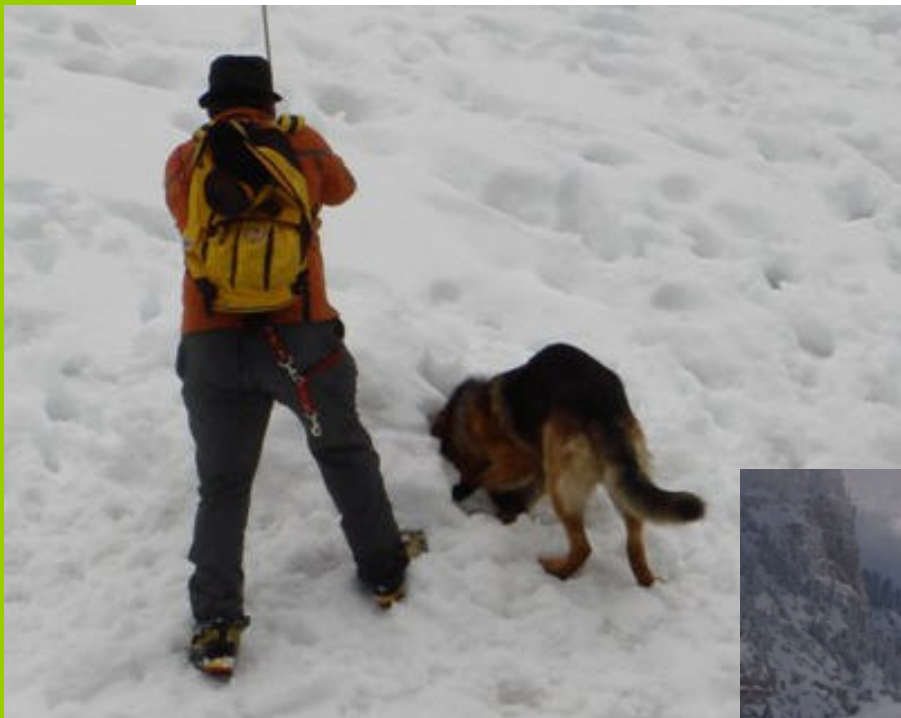
- Civil disturbance
- Sabotage
- Terrorism

Sample Hazard List, adapted from

FEMA, Comprehensive Preparedness Guide, March 2009



Avalanche



Drought





Epidemic





Flood



Land slide



Severe storm





Volcanic eruption





Wildfire





Tsunami, hurricane





Earthquake



L'Aquila 2009 - Seismic crater

Presidenza del Consiglio dei Ministri
Commissario delegato ai sensi del DPCM del 6 aprile 2009
Decreto n.1 del 9 aprile 2009 "Istituzione di Centri Operativi Misti (COM)
con i relativi comuni afferenti" e successive integrazioni
(Decreto n.4 del 17 aprile 2009 e Decreto n.8 del 29 maggio 2009)

Legenda

Sedi dei COM

- COM 1 - Scuola materna Via Scarfogli
- COM 2 - Scuola elementare San Demetrio
- COM 3 - Scuola elementare
- COM 4 - Centro sportivo
- COM 5 - Campo sportivo
- COM 6 - Istituto Comprensivo Scolastico
- COM 7 - Edificio Trasporti Comune
- COM 8 - Sede Vigili Urbani
- ◆ DI.COMA.C

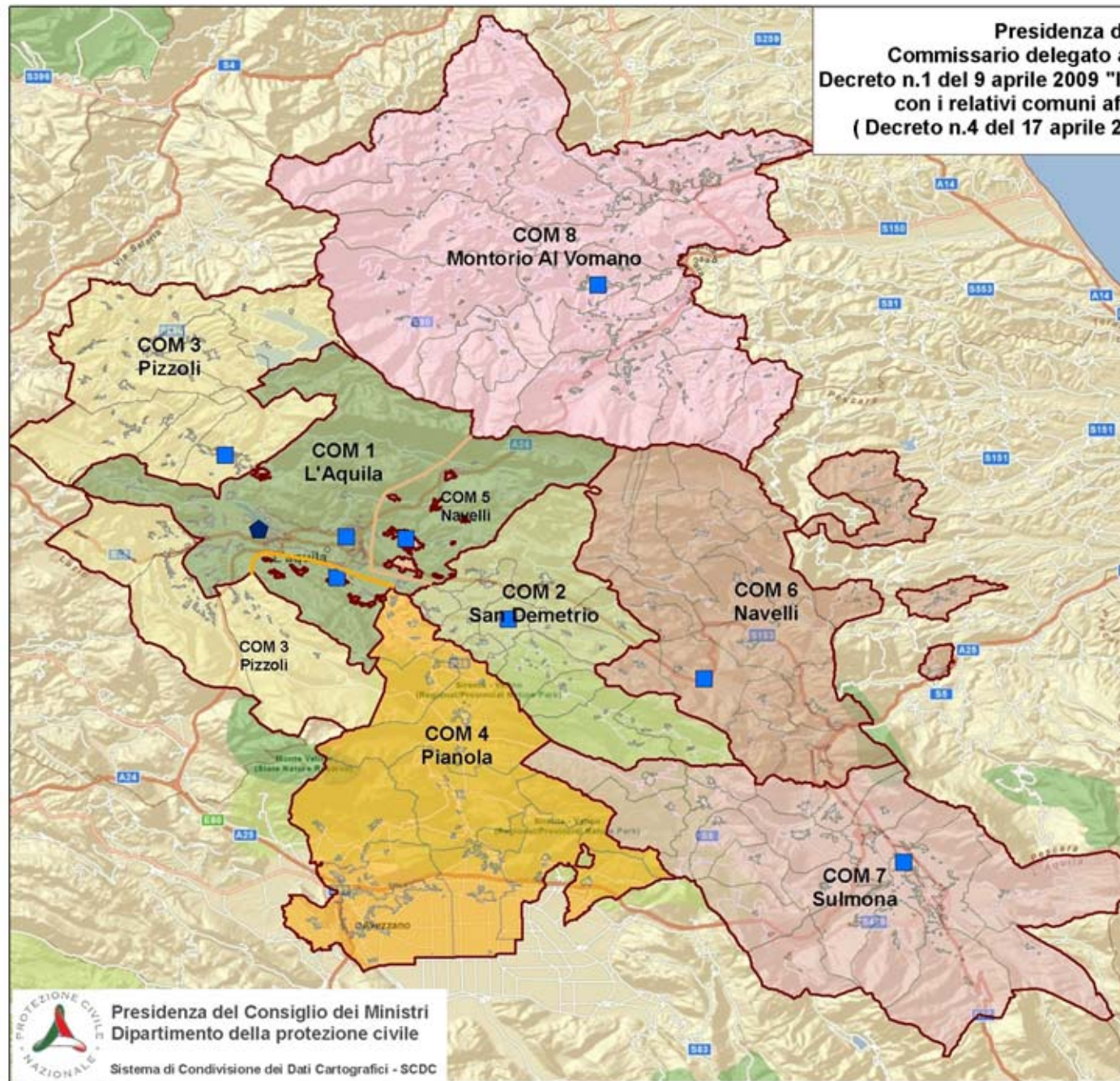
Centri Operativi Misti (COM)

- COM 1 - L'Aquila
- COM 2 - San Demetrio
- COM 3 - Pizzoli
- COM 4 - Pianola
- COM 5 - Paganica
- COM 6 - Navelli
- COM 7 - Sulmona
- COM 8 - Montorio Al Vomano

Le frazioni indicate nel Decreto n.1 del 9 aprile 2009 sono state cartografate mediante la rappresentazione delle corrispondenti località ISTAT 2001. I limiti dei COM 1 L'Aquila, COM 5 - Navelli e COM 2 - Pianola, sono interpretati mediante delle linee colorate per ricomprendere le frazioni e le località all'interno della località ISTAT 2001 "L'Aquila".

La cartografia utilizzata come sfondo è World Street Map di ArcGIS online di ESRI

0 2.5 5 10 15 20
Chilometri

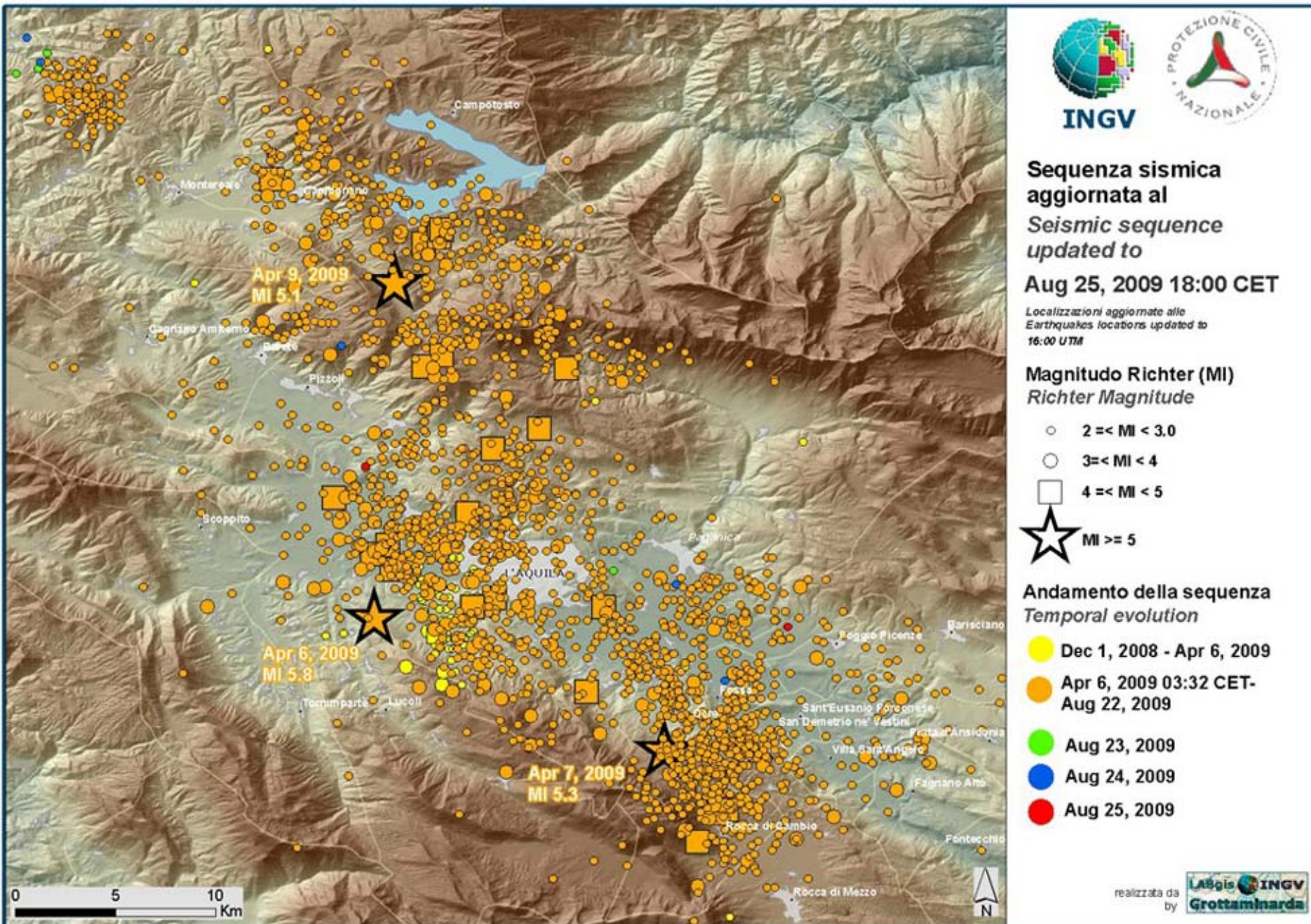


Presidenza del Consiglio dei Ministri
Dipartimento della protezione civile

Sistema di Condivisione dei Dati Cartografici - SCDC



L'Aquila 2009 - Seismic sequence





Animal Welfare concerns

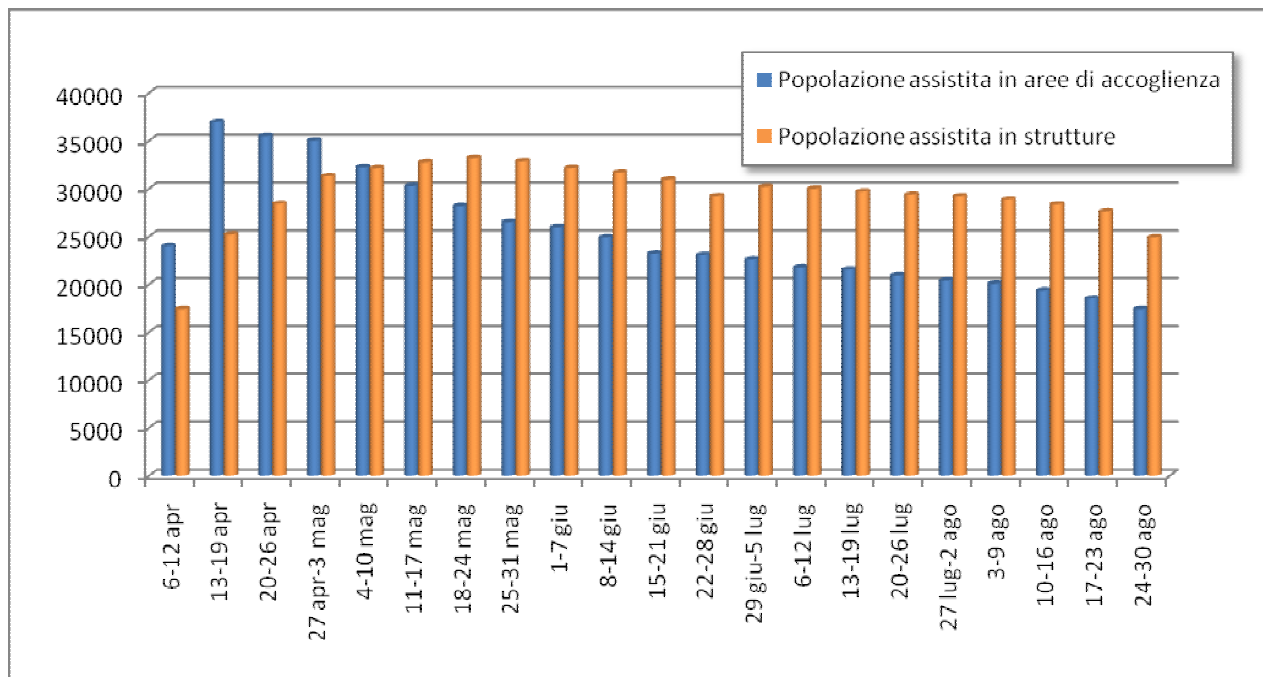
- **Farm animals**

- Veterinary assistance in collapsed sheds
- Injured animals treatment, slaughtering or euthanasia
- Carcass disposal
- Animal identification & relocation
- Owner/keeper direct involvement
- Feed, water and bedding
- Stockmanship (milking, weaning)

- **Pets**

- Veterinary assistance of owned animals
- Collection and assistance of abandoned, free roaming, stray dogs & cats

But, first of all citizens.....

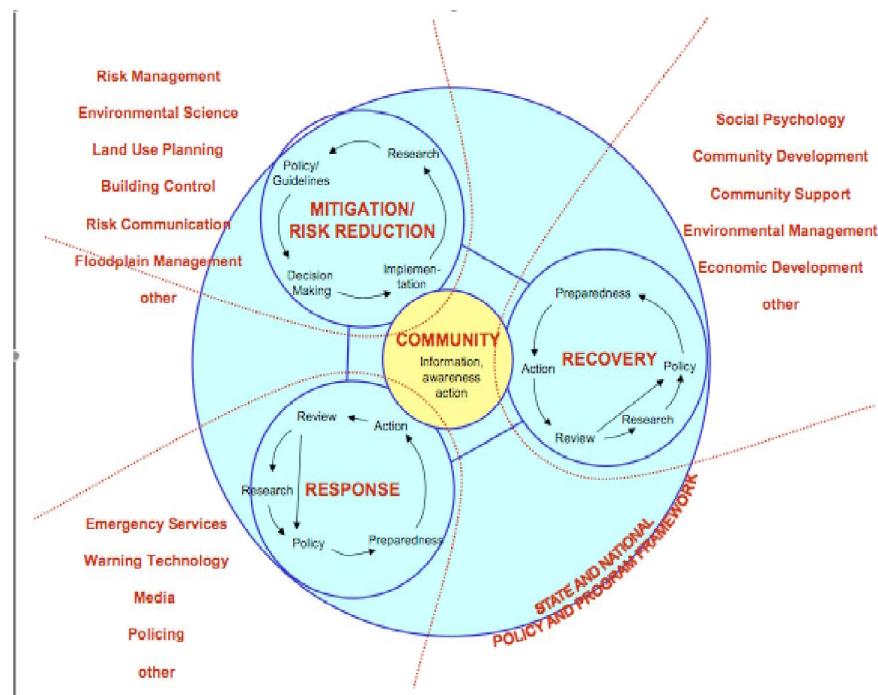


Emergency management

Comprehensive: encompasses all hazards, including programs for:

1. Prevention
2. Preparedness
3. Response
4. Recovery

Integrated: ensures the effort of governments, all relevant organisations and the community are coordinated.



1.Prevention/mitigation

It is critical during daily **veterinary surveillance, monitoring and control** activities, to assess the **territorial risk factors**, in order to:

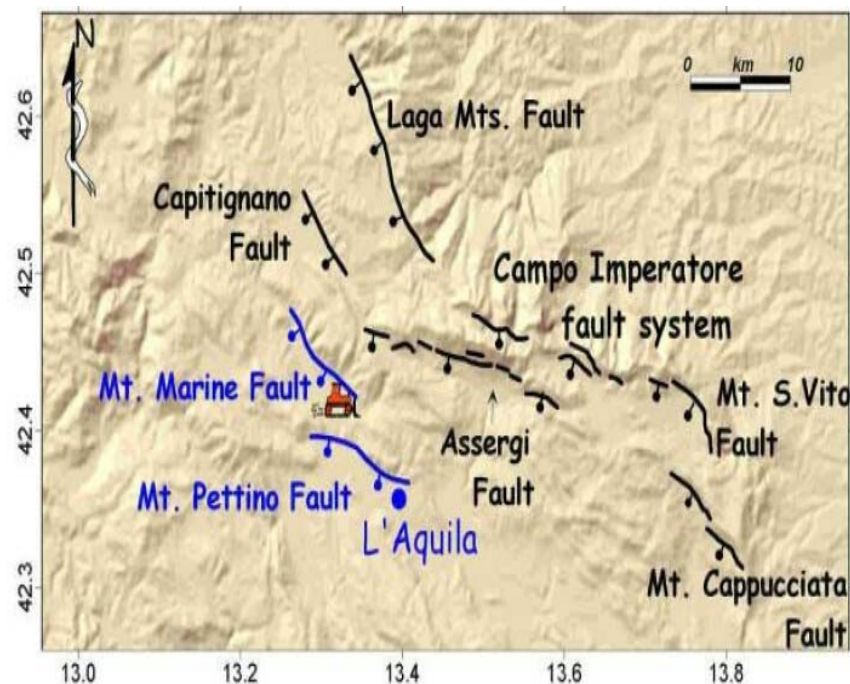
- **Eliminate or reduce the impact** of hazards themselves
- **Reduce the susceptibility and increase the resilience** of the community subject to the impact of those hazards
- **Foresee the possibility to take action** in an effective and efficient manner

Thorough knowledge of the territory

Localization (GPS)

- Farms
- Slaughterhouses
- Control posts
- Markets
- Petshops
- Kennels, shelters

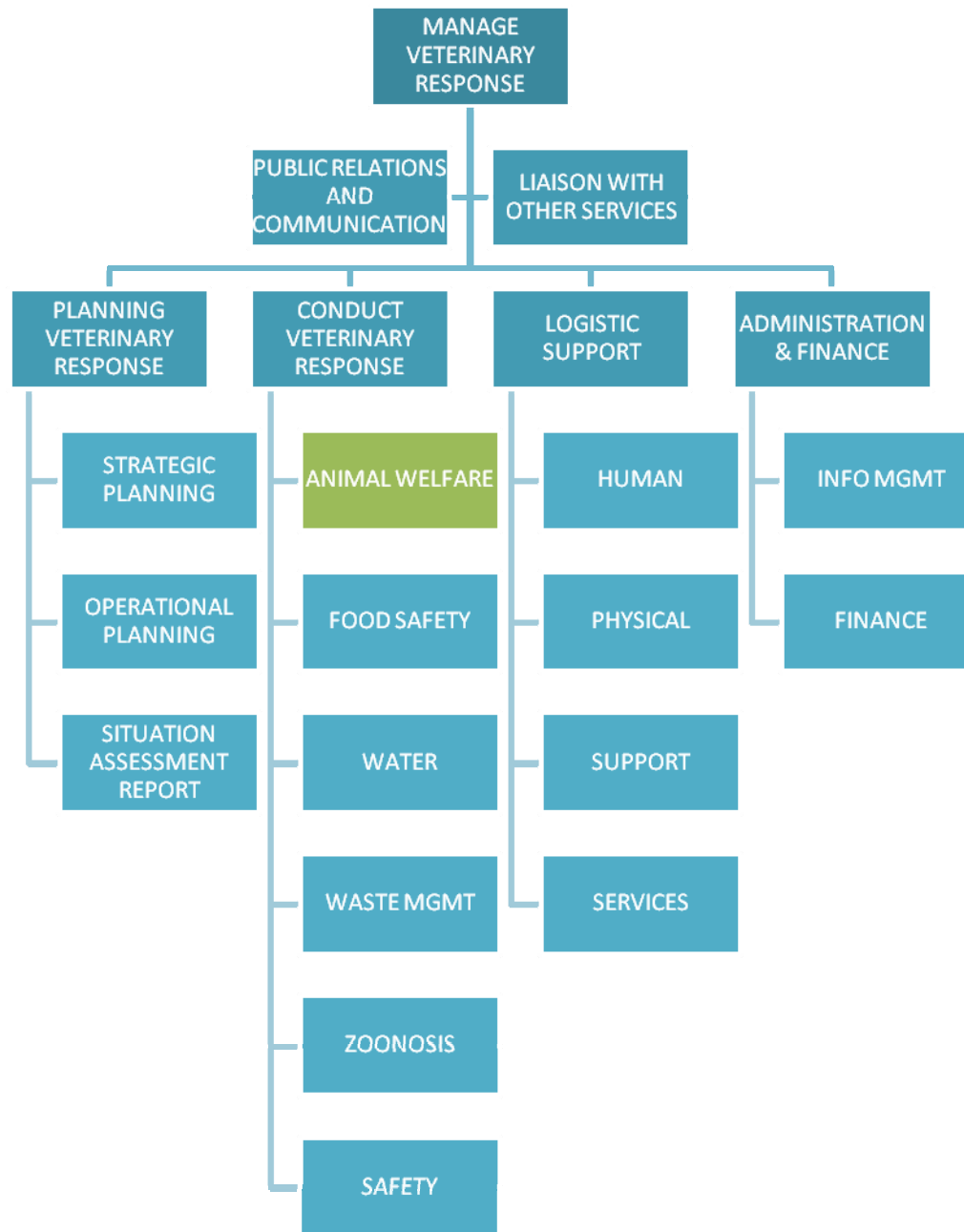
i.e. seismic risk
assessment





2.Preparedness

Preparedness establishes **arrangements** and **plans** and provide **education** and **information** to prepare the community to deal effectively with such emergencies and disasters as may eventuate

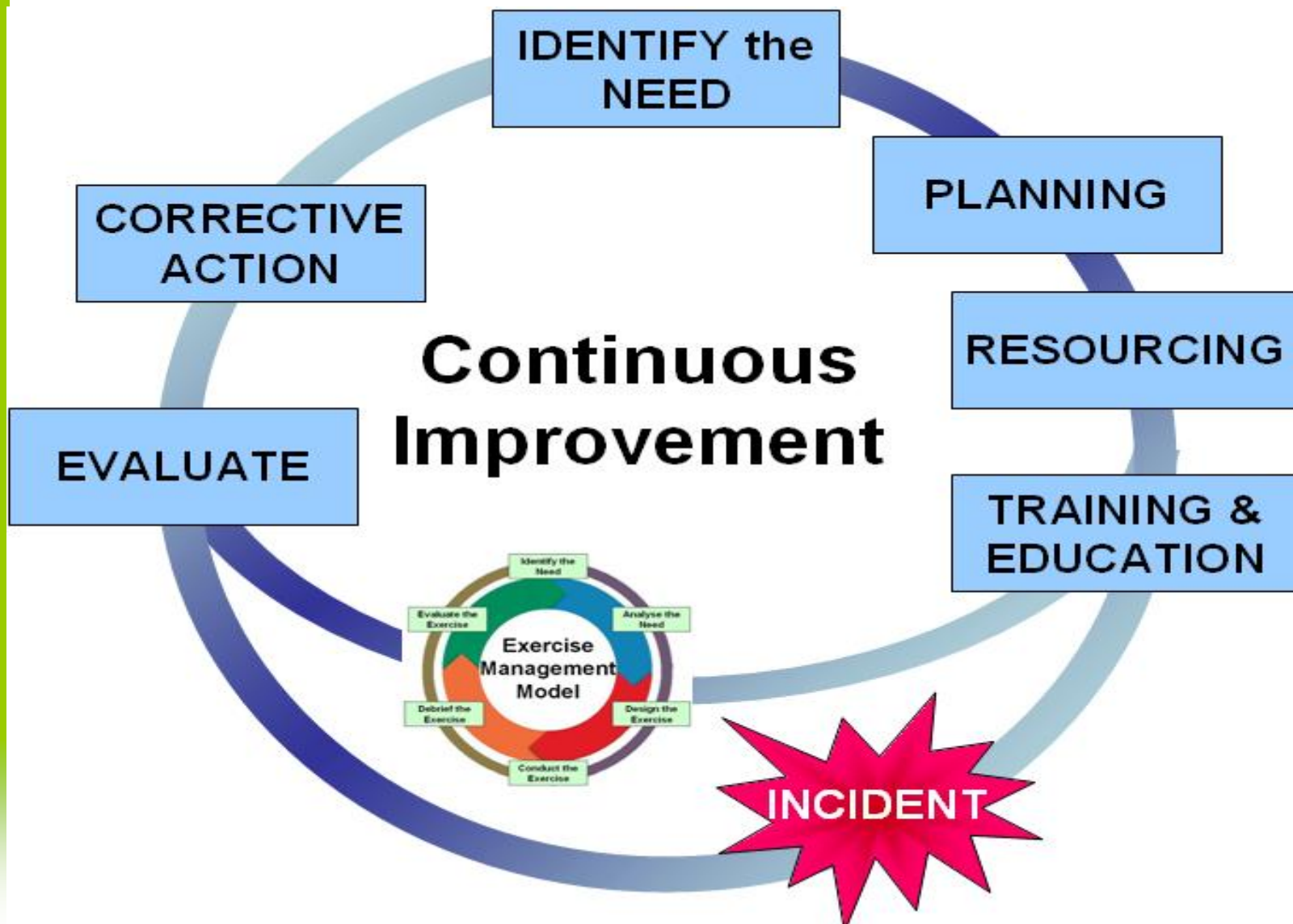






Human factor is fundamental during crisis management,
individual and collective responsibility has to be
promoted among stakeholders

Training, education and awareness
programs have to be implemented





3.Response

Response **activates preparedness arrangements** and **plans** to put in place effective measures to deal with emergencies and disasters if and when they do occur



Disaster relief management actors

- Istituto Zooprofilattico Sperimentale "G. Caporale"-Teramo
 - Local Veterinary Services L'Aquila
 - L'Aquila Veterinary Council
 - Abruzzo Region Veterinary Service
 - Carabinieri N.A.S.
 - Italian Red Cross
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- Abruzzo Region Local Veterinary Services
 - Extraregional Local Veterinary Services (Molise, Lazio, Emilia Romagna, Tuscany, Friuli Venezia Giulia)
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- Abruzzo Region Breeders Association (ARA)
 - Abruzzo Region Rural Development Agency (ARSSA)
 - Abruzzo Region Veterinary Councils
 - University of Teramo-Faculty of Veterinary Medicine
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- International Animal Welfare Association (IFAW)
 - National & Local Animal Welfare Association (LAV, ENPA, LNdC, ANPANA, LIDA, OIPA, RAN onlus)



Emergency support functions

- Animal evacuation
- Transportation of animals and animal support materials
- Animal sheltering
- Animal feeding & water
- Animal search & rescue
- Animal control/capture
- Veterinary medical care
- Animal decontamination
- Animal disease management
- Zoonotic diseases management
- Animal/owner reunion

4.Recovery

- Recover activities **assist a community** affected by an emergency or disaster in **reconstruction** of the physical infrastructure and **restoration** of emotional, social, economic and physical well-being
- This phase should start as soon as possible



AW into emergency plans

- Develop emergency plans in advance and update them
- Consider the local “human-animal” bond & the “attachment” factor
- Coordination of response, clear accountabilities, reporting and funding
- Incorporate people with animal handling skills
- Make use of international and regional resources
- Promote the access of a wide range of expertise in research, training, capacity building, and emergency planning

Don't you think we should be prepared to the unexpected ?

Effective preparedness is a critical precondition for successful response;

- Planning
- Organizing
- Training
- Equipping
- Exercising
- **Applying lesson learned!!**



"In preparing for battle I have always found plans are useless, but planning is indispensable"

Dwight D. Eisenhower