THE IMPACT OF NATURAL DISASTERS ON ANIMALS
AND WHAT THIS MEANS FOR PEOPLE

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NATURAL DISASTERS

ACUTE
- EARTHQUAKE
- TSUNAMI
- FLOODING
- HURRICANE
- FIRE
- ERUPTION
- ...

LIVESTOCK, WILDLIFE, PETS

CHRONIC
- DROUGHT
- EPIZOOTIC
- COLD
- ...

LIVESTOCK, WILDLIFE, PETS
HUMAN FIRST OF COURSE…but…IS IT A REASON TO FORGET ANIMALS?
ANIMALS ARE CONCERNED BY DISASTERS IN DIFFERENT WAYS

- AS VICTIMS
- AS FEEDSTUFFS
- AS SENTINELS
- AS DANGERS
- AS RESCUERS
THE ANIMAL AS A VICTIM: FLOODING
THE ANIMAL AS A VICTIM: FLOODING
THE ANIMAL AS A VICTIM: DROUGHT
THE ANIMAL AS A VICTIM: WILDFIRES
THE ANIMAL AS A VICTIM: WILDFIRES
THE ANIMAL AS A VICTIM: WILDFIRES
THE ANIMAL AS A VICTIM: EARTHQUAKES
ANIMAL RESCUE IS A NECESSITY
- FOR THE ANIMALS
- FOR HUMANS SAFETY
- FOR LOCAL ECONOMY
- FOR ETHICAL REASONS
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KOBE EARTHQUAKE (JAPAN) 17/01/1995

STUDY ON ANIMALS OWNERS REACTIONS:

- I stayed in my home cause I did not want to leave my pets…
- I left my house after taking my pet with me..........................
- I immediately went back to my home to take care of my pets...

PEOPLE TAKE RISKS TO SAVE THEIR ANIMALS

90,5 p100
ANIMAL RESCUE IS A NECESSITY
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NATURAL DISASTER: IMMEDIATE versus DELAYED or SECONDARY CONSEQUENCES
ANIMALS ARE CONCERNED BY DISASTERS IN DIFFERENT WAYS

AS VICTIMS

AS DANGERS

AS FEEDSTUFFS

AS SENTINELS

AS RESCUERS
CONTROL OF ANIMAL RISKS IS A NECESSITY
- PHYSICAL DANGERS
- ZOONOTIC DANGERS
- CADAVERS AND RISKY FEEDSTUFFS
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ANIMALS ARE CONCERNED BY DISASTERS IN DIFFERENT WAYS

- As victims
- As dangers
- As rescuers
- As feedstuffs
- As sentinels
FAST REHABILITATION OF ANIMALS AS FOOD IS A NECESSITY
- REGROUP LIVESTOCK
- MANAGEMENT OF FOODBORNE INFECTIONS
- FUTURE OF BREEDING ACTIVITIES
VENEZUELA FLOODING 1999

- Rain → Floodings → Landslides
- 50 000 Death
- Lost of 80 p100 of Cattle (prov. Apure)
- 140 000 « moved » (Caracas)
- Leptospirosis (rats)
- Cholera (water, feedstuffs, rats)
FAST REHABILITATION OF ANIMALS AS FOOD IS A NECESSITY
- REGROUP LIVESTOCK
- MANAGEMENT OF FOODBORNE INFECTIONS
- FUTURE OF BREEDING ACTIVITIES
BEWARE OF INDUCED STRESSES
FAST REHABILITATION OF ANIMALS AS FOOD IS A NECESSITY
- REGROUP LIVESTOCK
- MANAGEMENT OF FOODBORNE INFECTIONS
- FUTURE OF BREEDING AND PRODUCTION ACTIVITIES
ANIMALS ARE CONCERNED BY DISASTERS IN DIFFERENT WAYS

- As victims
- As dangers
- As rescuers
- As feedstuffs
- As sentinels
ANIMALS CAN SAVE LIVES
- SEARCH AND RESCUE DOGS
- MULES CAN GO ANYWHERE
ANIMALS CAN SAVE LIVES
- SEARCH AND RESCUE DOGS
- MULES CAN GO ANYWHERE
ANIMALS CAN SAVE LIVES
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AS VICTIMS

AS DANGERS

AS FEEDSTUFFS

AS RESCUERS

AS SENTINELS
WHAT IMPACTS ANIMALS IMPACTS MANKIND!

- Sanitary component (postponed vectorisation of biological risk)
- Economical component (the animal is at least a good)
- Humane component (the animal is way more than a good)
- Environmental component (impacts of massive pollutions)

WHAT ALL THIS MEANS TO PEOPLE AND ORGANIZATIONS
ANIMAL AS A VICTIM

ANIMAL AS A FOOD

ANIMAL AS A RESCUER

ANIMAL AS A VECTOR

ANIMAL AS A SENTINEL

POPULATIONS MUST GET PREPARED
• creating adequate storage and protection for food and water supplies
• identifying animals so they can easily be reunited with their owners
• demonstrating how to evacuate animals safely
• strengthening and securing animal shelters on safe ground
• running vaccination programs to protect animal health.

PREPAREDNESS TO EXPECTED SITUATIONS
VETERINARIANS TRAINED TO DISASTER SITUATIONS
CENTRALIZE RESPONSE OPTIONS AND METHODOLOGIES

International Food Safety Authorities Network (INFOSAN)

"Food Safety in Natural Disasters"

World Health Organization

ERF | EMERGENCY RESPONSE FRAMEWORK

INSARAG
Preparedness – Response
BETTER TAKE INTO ACCOUNT THE HUMANE IMPORTANCE OF ANIMALS IN ANY COUNTRY IN DISASTERS SITUATIONS
DISASTER VETERINARY MEDICINE EXISTS AND MUST BE DEVELOPED
THERE ARE MANY TYPES OF DISASTER SITUATIONS...

AREA (EXTENT)

TIME (DURATION)

VICTIMS (NUMBER)

IMPACT (SOCIETIES)

ACCIDENT
TECHNOLOGY
TERRORISM
NATURE
CONFLICT

...AND TRAINED VETERINARIANS CAN BE USEFUL!
NATIONAL DIPLOMA IN VETERINARY DISASTER AND ENVIRONMENT MEDICINE (France)

NATURAL DISASTERS

BIOLOGICAL HAZARDS

CHEMICAL HAZARDS

RADIOLOGICAL HAZARDS

ENVIRONMENTAL DISASTERS
ACTUAL FRENCH « ORGANISATION » REGARDING VETERINARIANS POTENTIALLY INVOLVED IN DISASTERS

CIVILIAN SECURITY (FIRE DEPTs)
350 Part Time or Army Reserve Veterinarians

MILITARY HEALTH SERVICE
80 Military Veterinarians + Reserve

NATIONAL ADMINISTRATION
3000 Veterinarians...Far away from field problems

PRIVATE PRACTITIONERS
10000 Veterinarians...
POTENTIAL EUROPEAN « ORGANISATION » REGARDING VETERINARIANS POTENTIALLY INVOLVED IN DISASTERS

CIVILIAN SECURITY (FIRE DEPTs)

MILITARY HEALTH SERVICE

NATIONAL ADMINISTRATION

PRIVATE PRACTITIONERS

INCLUDE DISASTER VETERINARY MEDICINE IN VET-STUDENTS TRAINING?

VET SCHOOLS

TRAINED

POST GRADUATE

BUILD-UP A EUROPEAN BOARD IN DISASTER VETERINARY MEDICINE?

« GARNET VETERINARY RESPONSE PLAN »
POTENTIAL INTERNATIONAL « ORGANISATION » REGARDING VETERINARIANS POTENTIALLY INVOLVED IN DISASTERS

CIVILIAN SECURITY (FIRE DEPTs)  
MILITARY HEALTH SERVICE  
NATIONAL ADMINISTRATION  
PRIVATE PRACTITIONERS

INCLUDE DISASTER VETERINARY MEDICINE IN VET-STUDENTS TRAINING?

VET SCHOOLS
TRAINING
POST GRADUATE

BUILD-UP THE FIRST INTERNATIONAL BOARD IN DISASTER VETERINARY MEDICINE?
THANK YOU FOR YOUR ATTENTION
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THE NEW SUB-AQUATIC SEARCH AND RESCUE DOG OF THE PARIS FIRE BRIGADE

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