



# **PACES**

## **Preparedness for Appropriate accommodation in Emergency Shelters**

**ECHO/SUB/2015/713774/PREP04**

**Scenario Workshop  
Past experiences from International Missions**

**Heraklion, 19<sup>th</sup> April 2016**

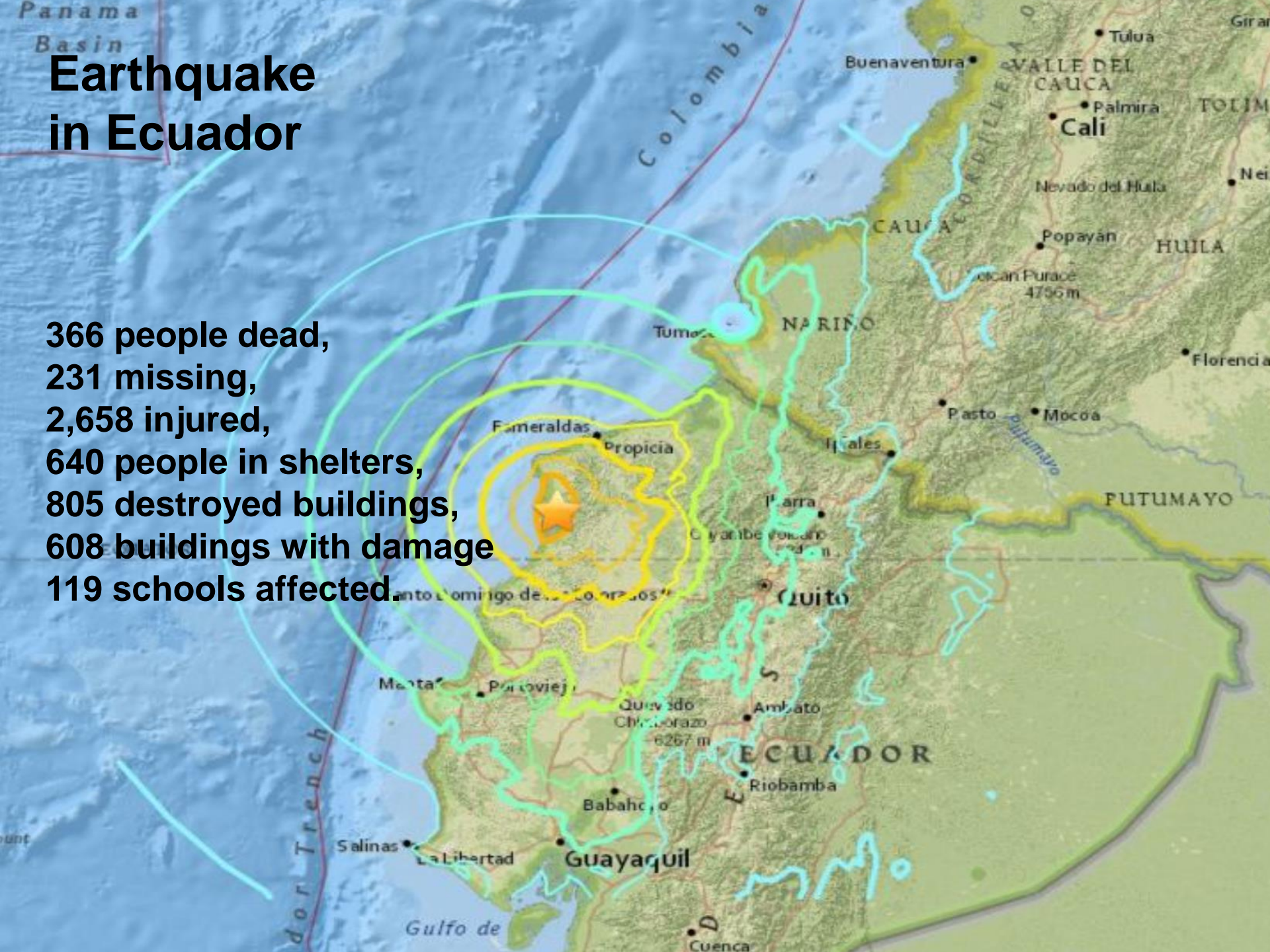
# Outline



- Earthquake - Trends
- UN OCHA / UNDAC / UCP
- Experiences from UNDAC/EUCP missions
- Summary

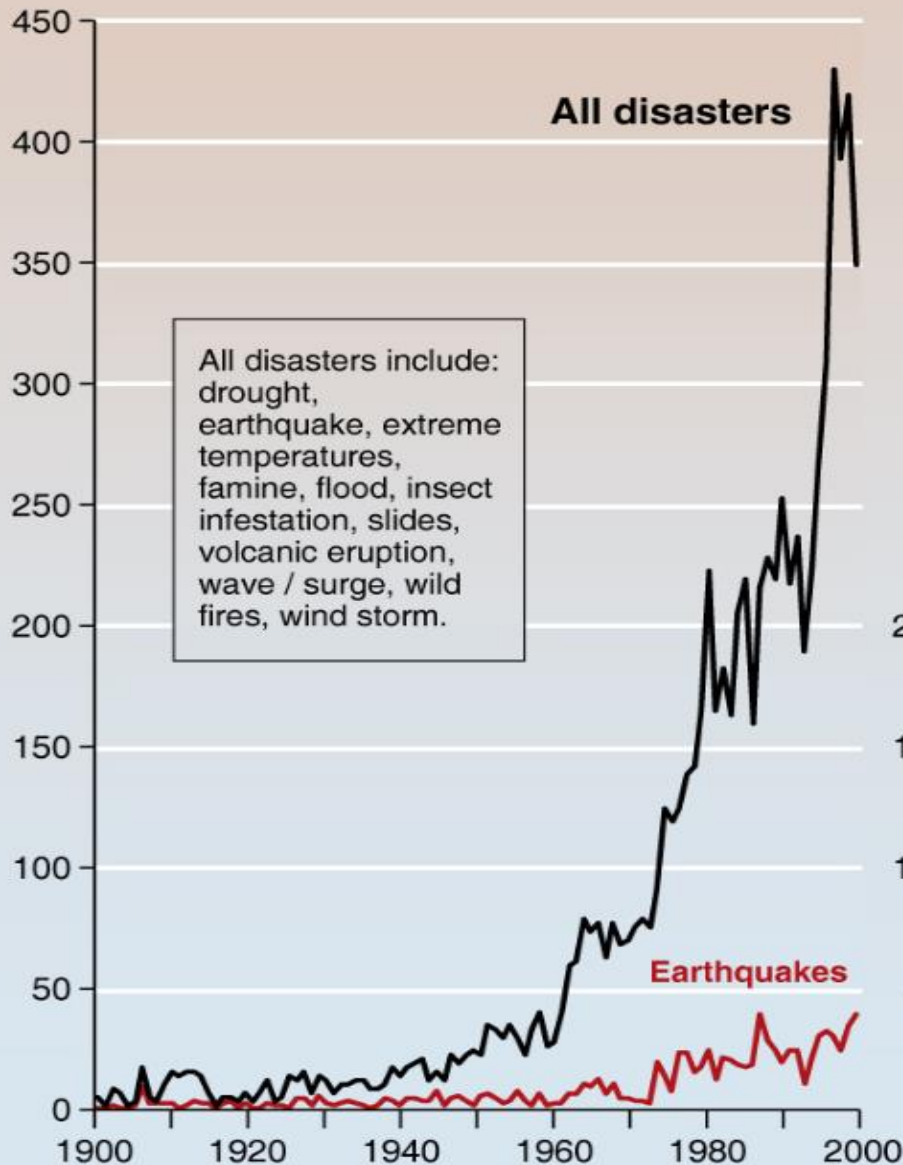
# Earthquake in Ecuador

366 people dead,  
231 missing,  
2,658 injured,  
640 people in shelters,  
805 destroyed buildings,  
608 buildings with damage  
119 schools affected.



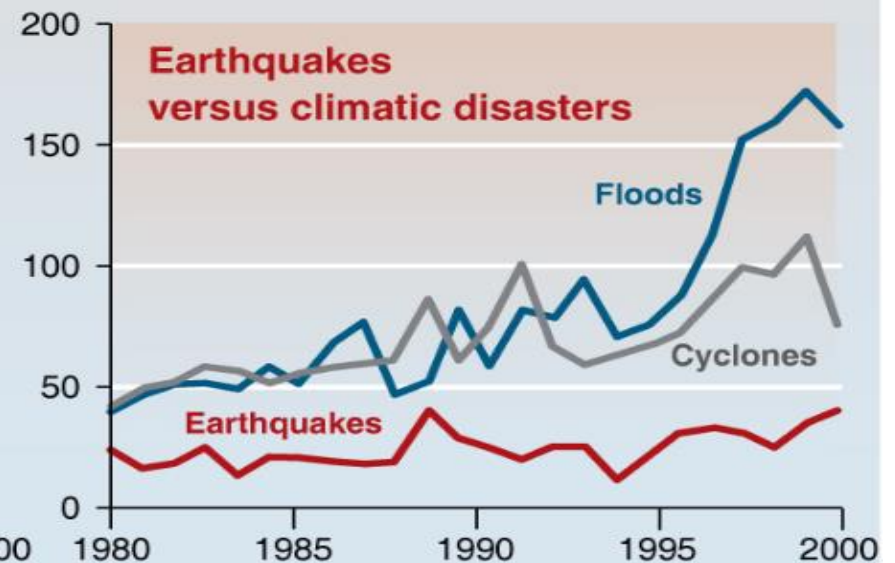


Number of events  
per year



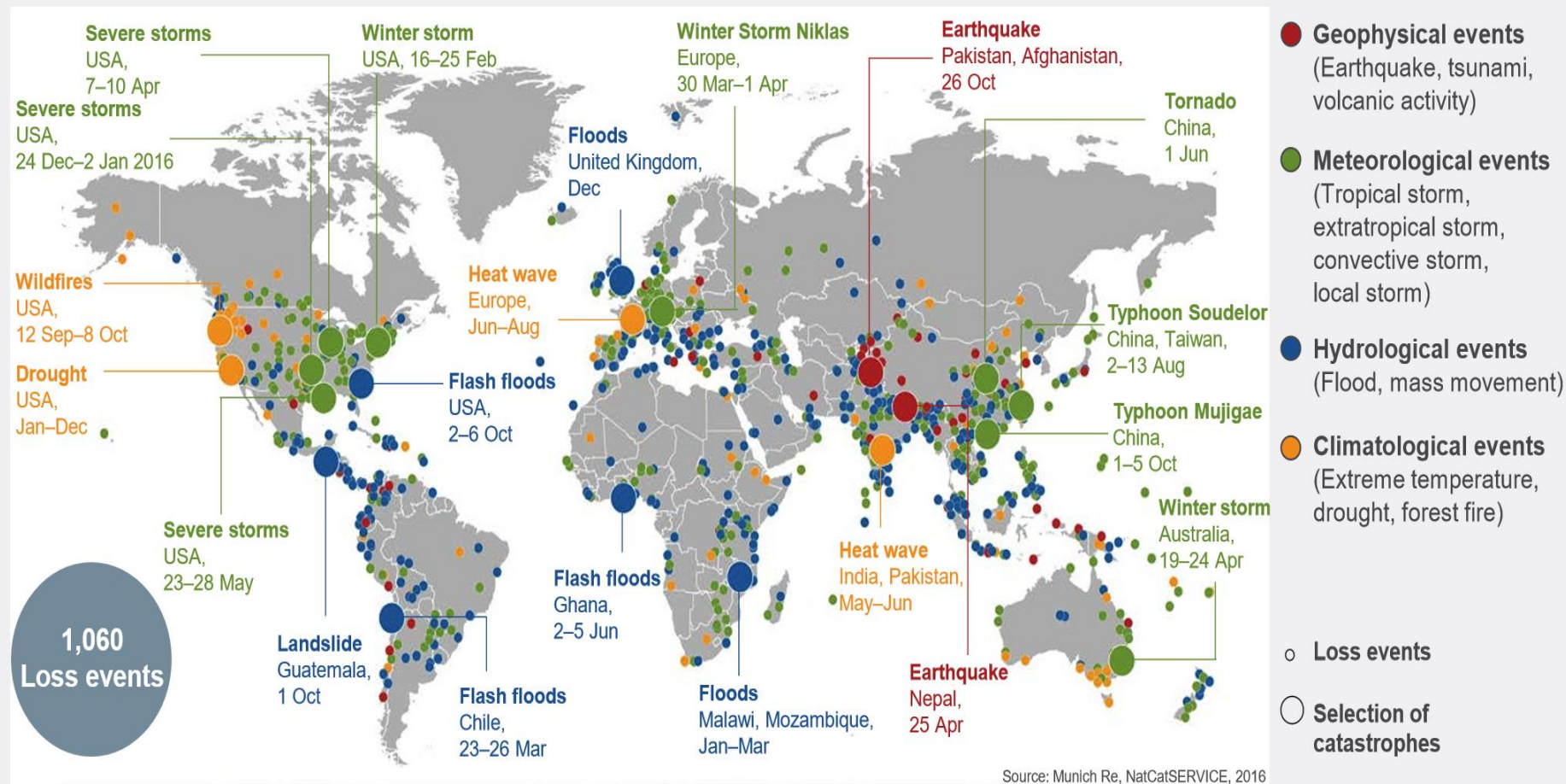
## Trends in number of reported events

Much of the increase in the number of hazardous events reported is probably due to significant improvements in information access and also to population growth, but the number of floods and cyclones being reported is still rising compared to earthquakes. How, we must ask, is global warming affecting the frequency of natural hazards?



# Natural loss events worldwide 2015

## Geographical overview



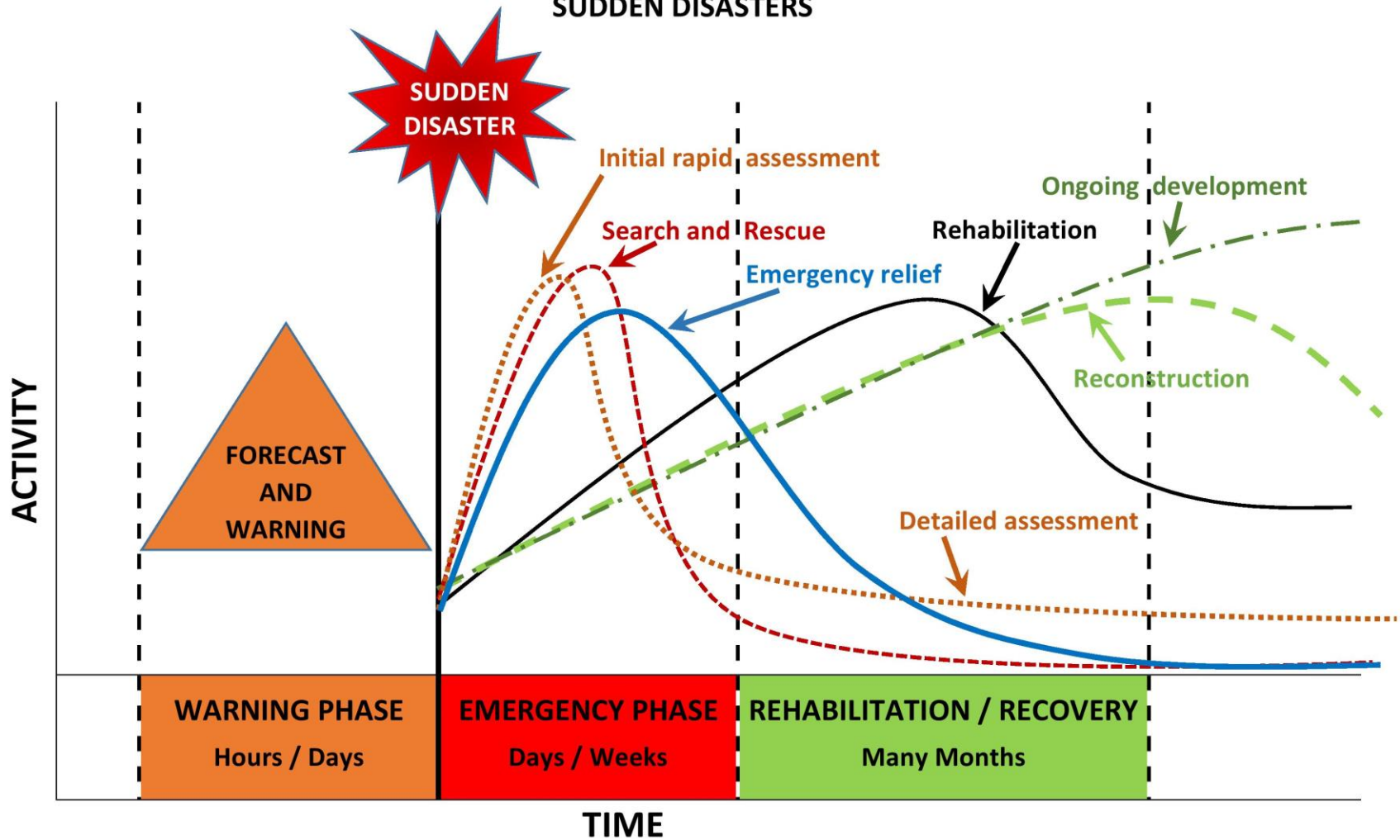
# Loss events worldwide 1980 – 2015

## 10 deadliest earthquakes

Date	Event	Affected area	Overall losses in US\$ m original values	Insured losses in US\$ m original values	Fatalities
26.12.2004	Earthquake, tsunami	Sri Lanka, Indonesia, Thailand, India, Bangladesh, Myanmar, Maldives, Malaysia	10,000	1,000	<b>220,000</b>
12.1.2010	Earthquake	Haiti: Port-au-Prince, Petionville, Jacmel, Carrefour, Leogane, Petit Goave, Gressier	8,000	200	<b>159,000</b>
8.10.2005	Earthquake	Pakistan, India, Afghanistan	5,200	5	<b>88,000</b>
12.5.2008	Earthquake	China: Sichuan, Mianyang, Beichuan, Wenchuan, Shifang, Chengdu, Guangyuan, Ngawa, Ya'an	85,000	300	<b>84,000</b>
20.6.1990	Earthquake	Iran: Caspian Sea, Gilan province, Manjil, Rudbar, Zanjan, Safid, Qazvin	7,100	100	<b>40,000</b>
26.12.2003	Earthquake	Iran: Bam	500	19	<b>26,200</b>
7.12.1988	Earthquake	Armenia: Spitak, Kirowakan, Stepanavan Turkey: Kars province	14,000		<b>25,000</b>
17.8.1999	Earthquake	Turkey: Izmit, Istanbul, Gölcük, Kocaeli, Sakarya, Yalova	12,000	600	<b>17,118</b>
11.3.2011	Earthquake, tsunami	Japan: Aomori, Chiba, Fukushima, Ibaraki, Iwate, Miyagi, Tochigi, Tokyo, Yamagata	210,000	40,000	<b>15,880</b>
26.1.2001	Earthquake	India: Gujarat, Bhuj, Ahmedabad, Surat Pakistan: Sindh province	4,600	100	<b>14,970</b>

Source: Munich Re, NatCatSERVICE, 2016

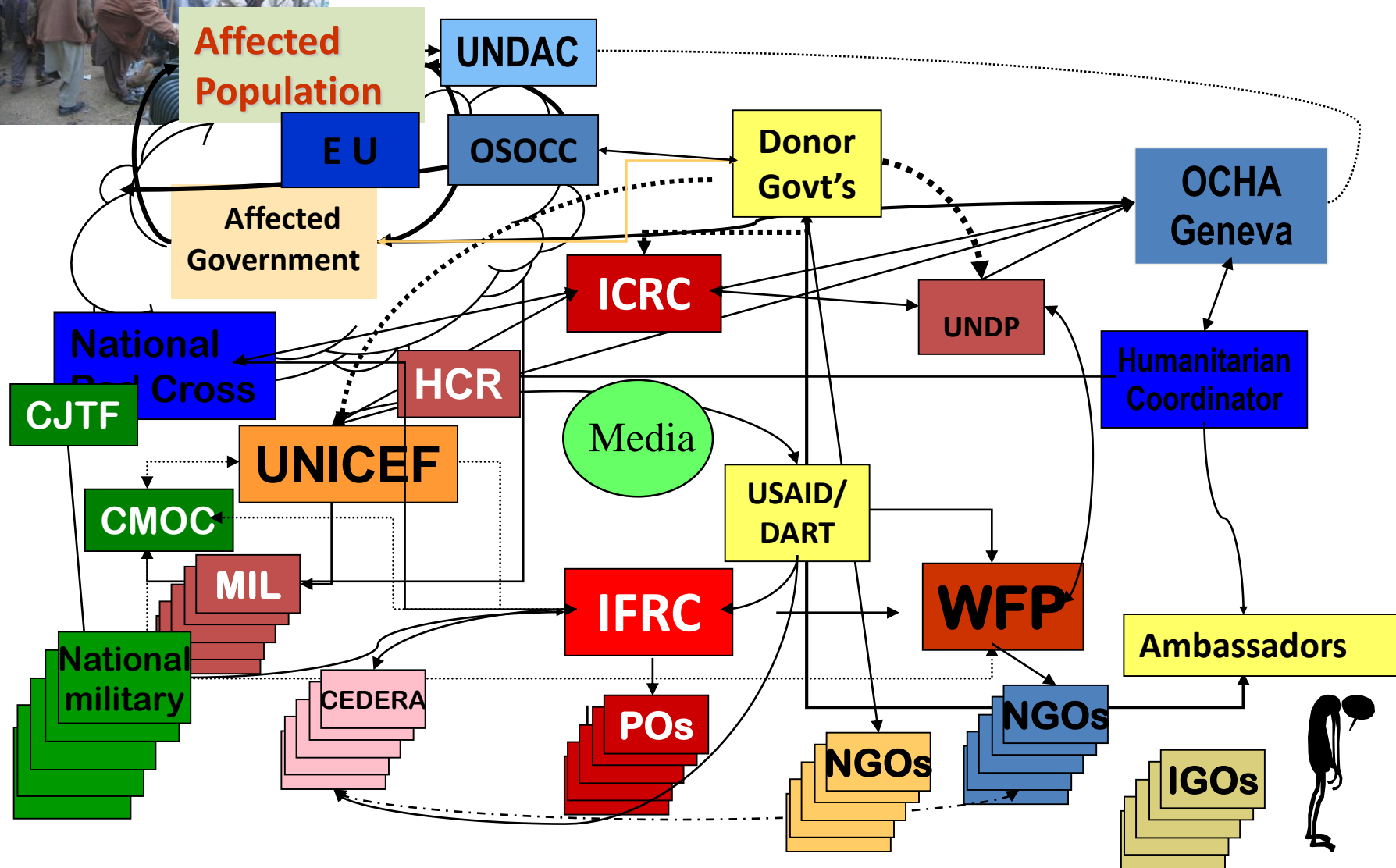
## EPISODES AND ACTIVITIES IN RELATION TO THE RISKS AND OCCURENCE OF SUDDEN DISASTERS







# Reality in the field.....





# O C H A

OFFICE FOR THE COORDINATION OF HUMANITARIAN AFFAIRS



“Strengthening the coordination of humanitarian emergency assistance of the United Nations”  
(GA Resolution 46/182, December 1991)

# United Nations Disaster Assessment and Coordination (UNDAC -Team)



- Available within 24 hours
- Support of the Government and the UN Country Team
- Conducts and coordinates “Needs assessments” and reacts according to the findings
- Mobilises relief teams/goods via UN OCHA and coordinates incoming teams/goods

**250+ Missions since July 1993; about 170 active members**



[http://ec.europa.eu/echo/index\\_en.htm](http://ec.europa.eu/echo/index_en.htm)

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ECHO Daily Flash

MeteoAlarm - as of 8 May, 5.00 UTC

## LATEST NEWS

### Nepal: EU increases its financial support

04/05/2015

EU Commissioner for Humanitarian Aid and Crisis Management, Christos Stylianides, announced additional €3 million in humanitarian aid to Nepal after...



## DECISION No 1313/2013/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 17 December 2013 on a Union Civil Protection Mechanism

01<sup>st</sup> Jan 2014

### Important elements of the Union Civil Protection Mechanism

Tools of the [Union Civil Protection Mechanism](#)

The Mechanism needs different tools to work efficiently.

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@eu\_echo @GVCItalia  
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Retweeted by EU Humanitarian Aid

22m



and in  
anon  
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Violence

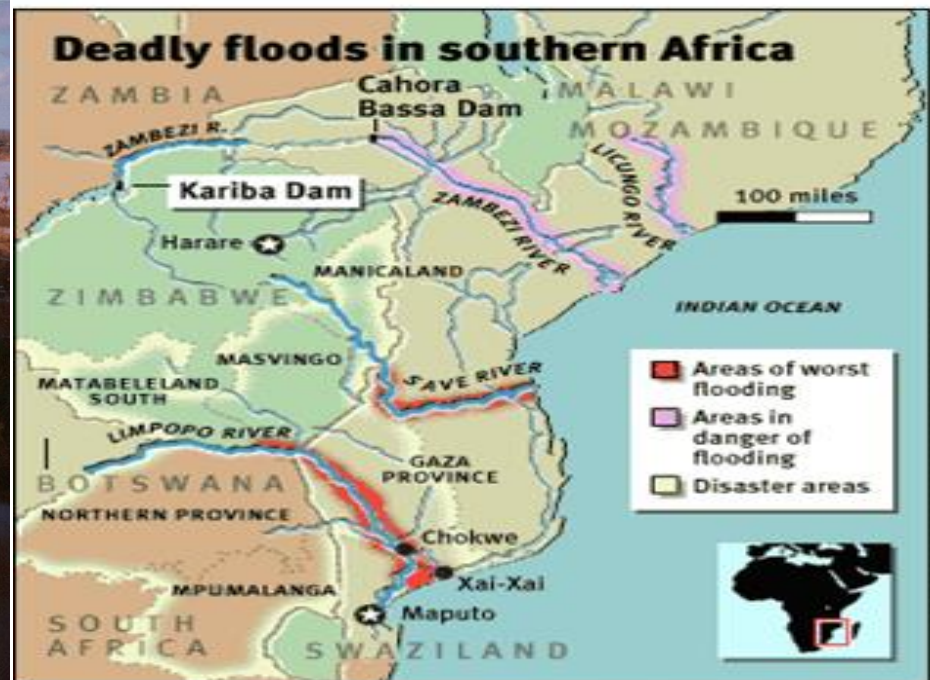




# Examples from UNDAC & UCP Missions

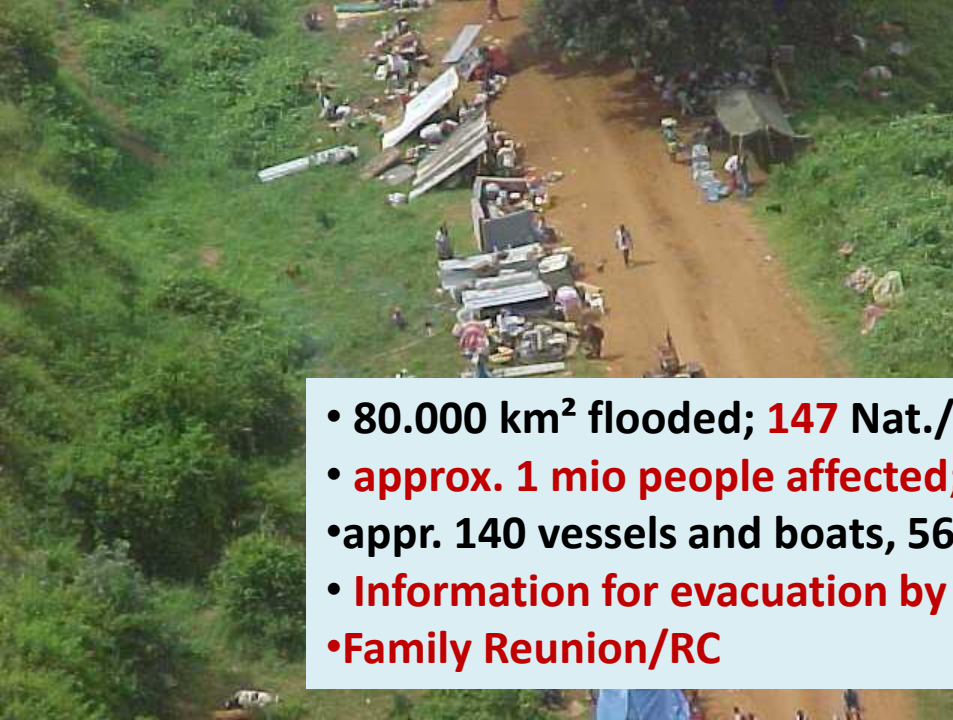


# Flood 2000 Mozambique



Source: Compiled from AP wire reports

Associated Press



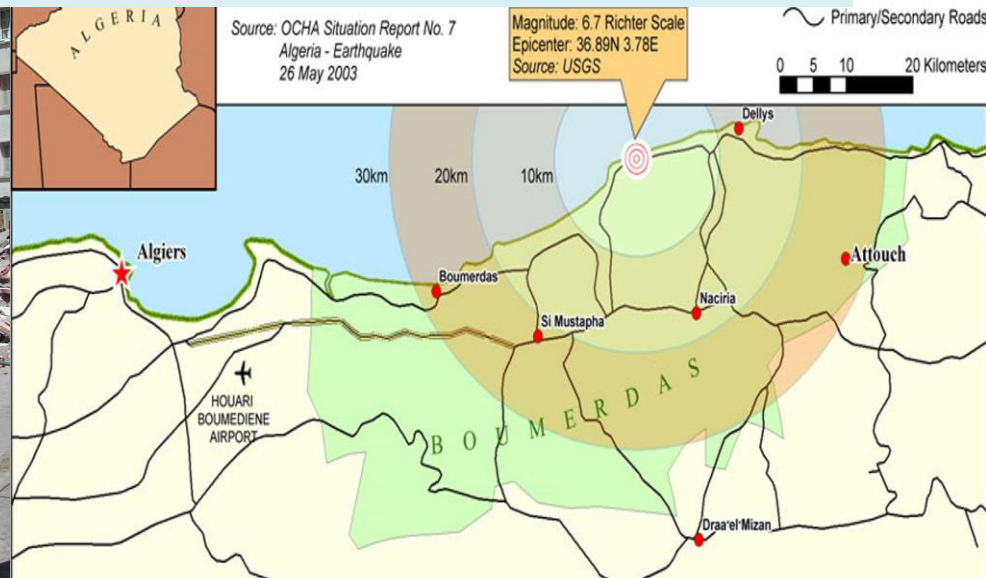
- 80.000 km<sup>2</sup> flooded; **147** Nat./Internat. Organisations
- **approx. 1 mio people affected; 300.000 displaced**
- appr. 140 vessels and boats, 56 foreign aircraft
- **Information for evacuation by plane!**
- **Family Reunion/RC**



# Earthquake Algeria 2003



- Strength: 6,7 Richter, Aftershocks: 5,4 – 5,8 Richter
- 2500 dead , 10 000 Injured , 200 000 Homeless
- 38 Teams (20 International T.) meaning 2600 people plus 220 Rescue dogs
- Problems: **Security, Logistics...Homeless – relatives in Algier...**







## Earthquake Iran/Bam 2004

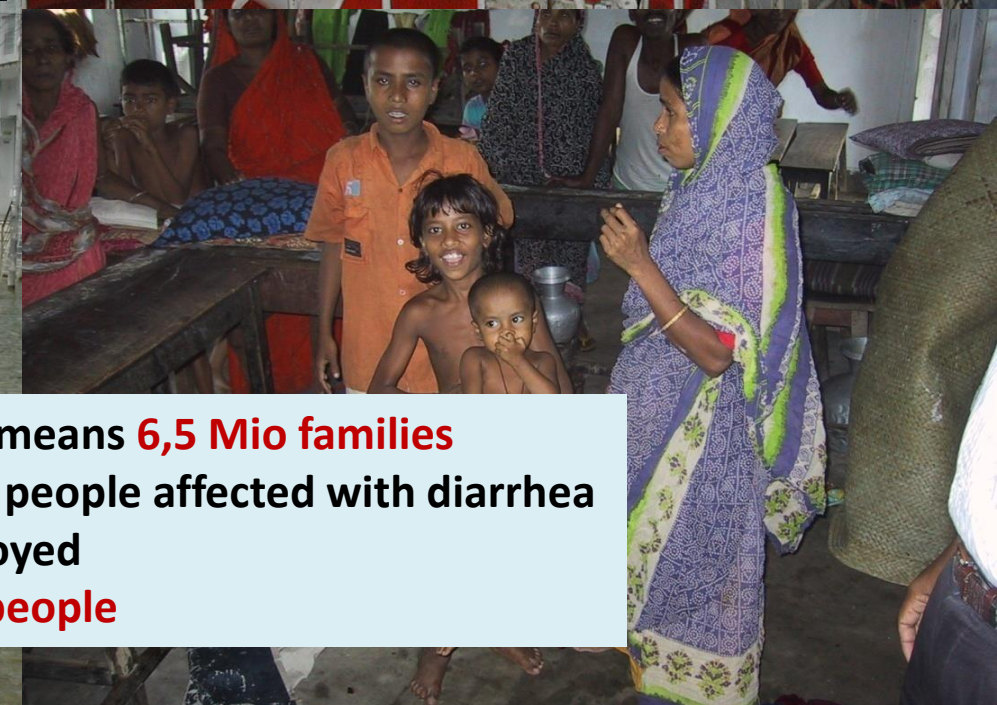
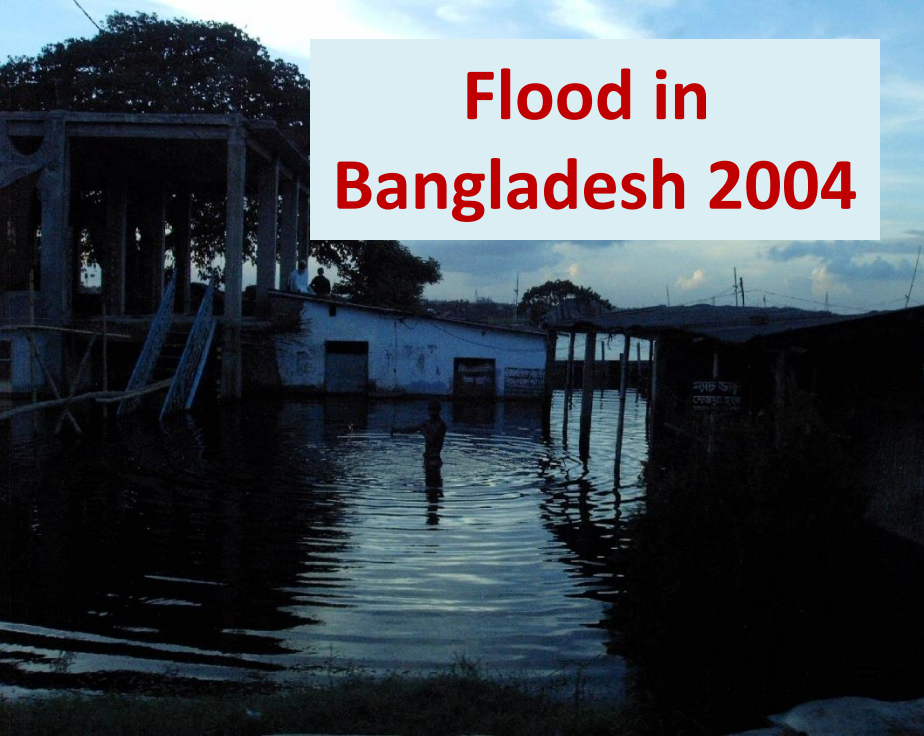
**Satellite map of Bam City (Kerman Province/Iran**  
as imaged by the IKONOS satellite on 27th of December 2003



- **Magnitude: 6,5 Richter**
- **26.200 Dead; 30.000 Injured, 75.000 Homeless**
- **90% houses destroyed;**



# Flood in Bangladesh 2004



- **33 Mio** people affected, means **6,5 Mio families**
- **700 Dead**, about 70.000 people affected with diarrhea
- **2,6 Mio ha** of crop destroyed
- **5000 shelters** f. **1,5 mio people**



# TSUNAMI SO-ASIA 2005

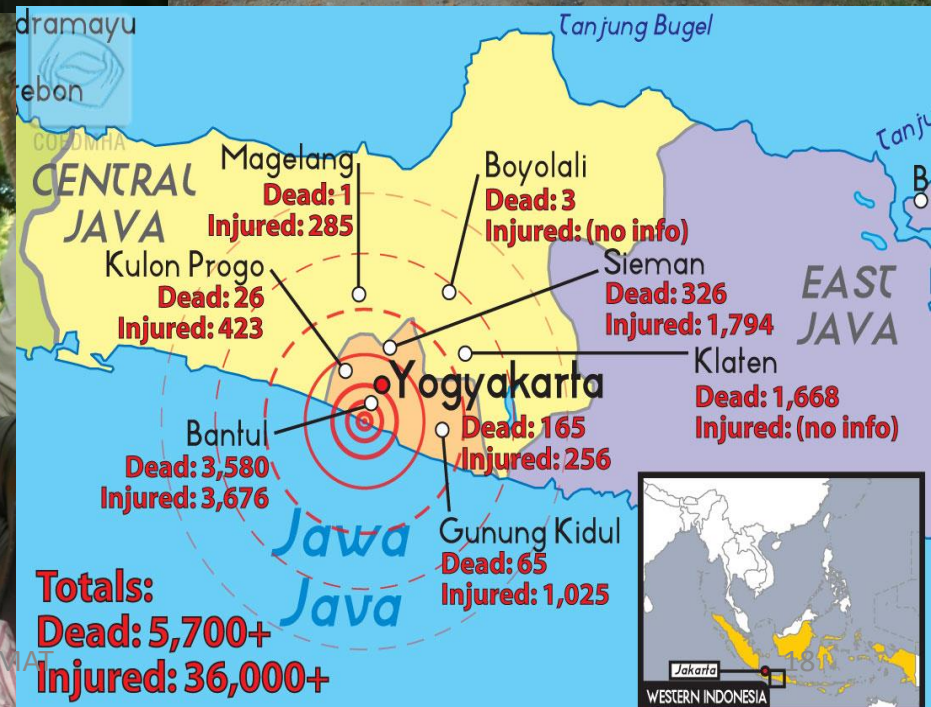


- 35 Nations(30.000 troops)
- 75 helicopters, 41 vessels, 43 airplanes
- Appr. 220.000 dead
- **Early warning!!**





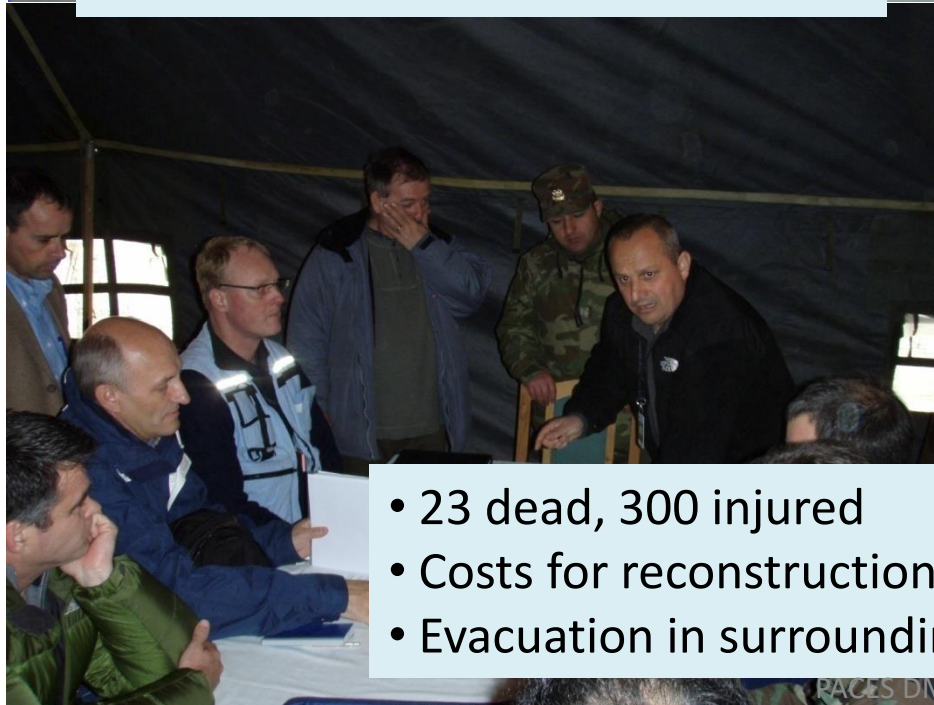
# Earthquake Indonesia 2006







## Explosion of an ammunition depot Albania 2008



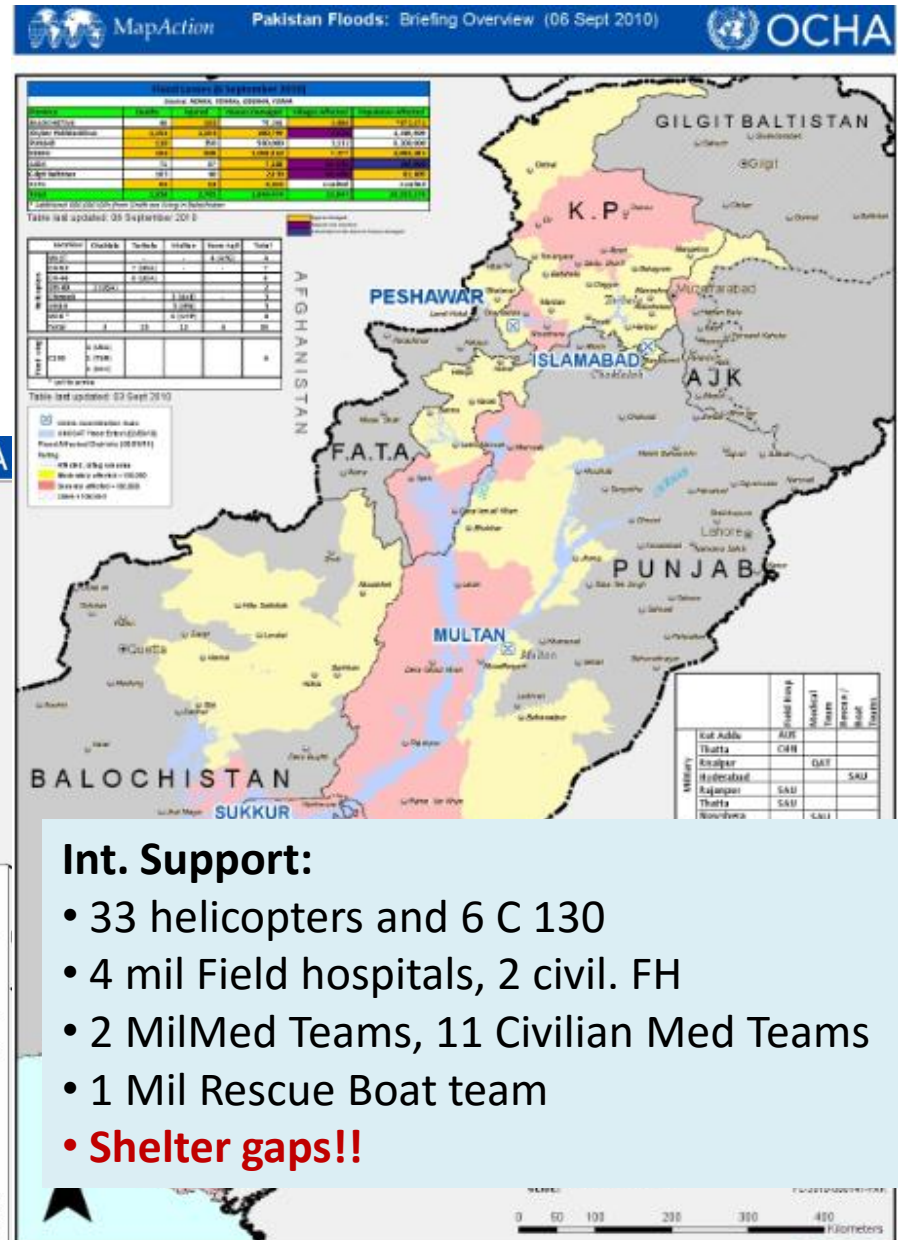
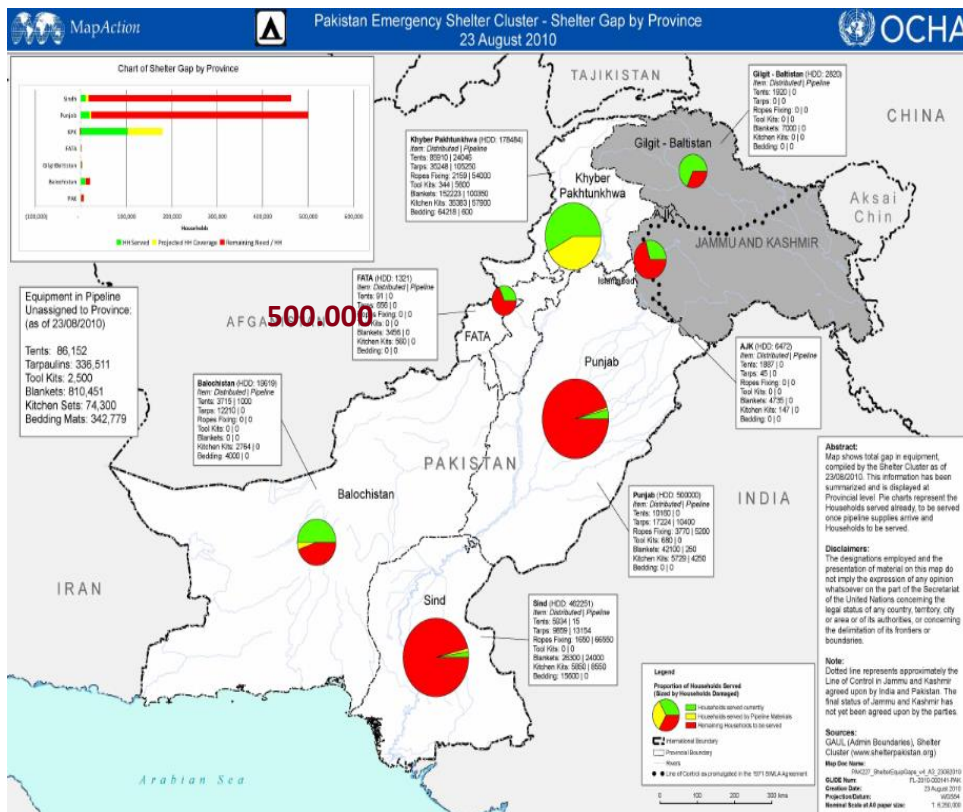
- 23 dead, 300 injured
- Costs for reconstruction: 17 Mio €
- Evacuation in surrounding; **UXO's** (Unexploded Ordnance)

# Floods Pakistan 2010



174,578,558 people  
796,095 km<sup>2</sup>

- 1836 dead; 2785 injured;
- 1.849.474 destroyed houses;
- 15.847 affected municipalities
- **20.553.176 affected population**  
(as of 6.Sept 2010)



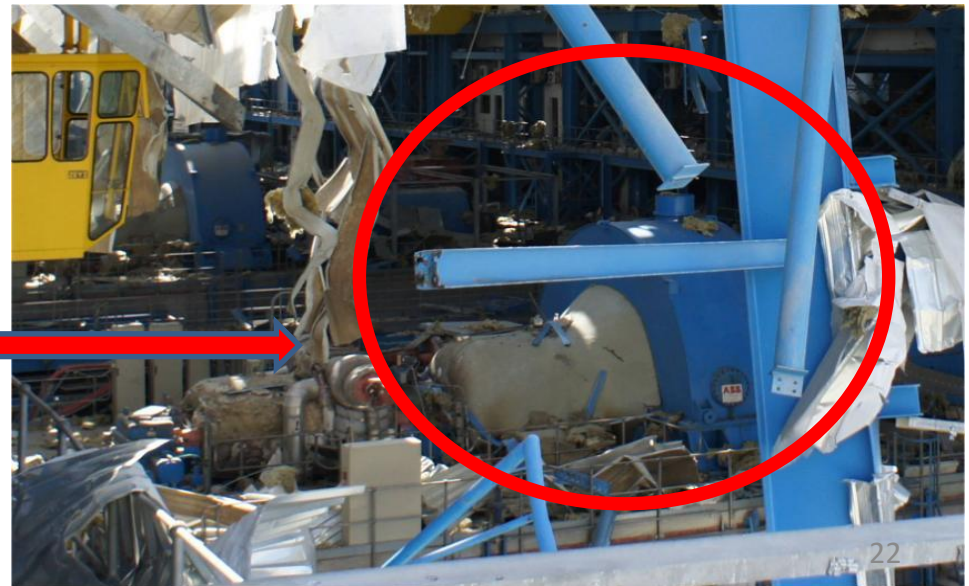
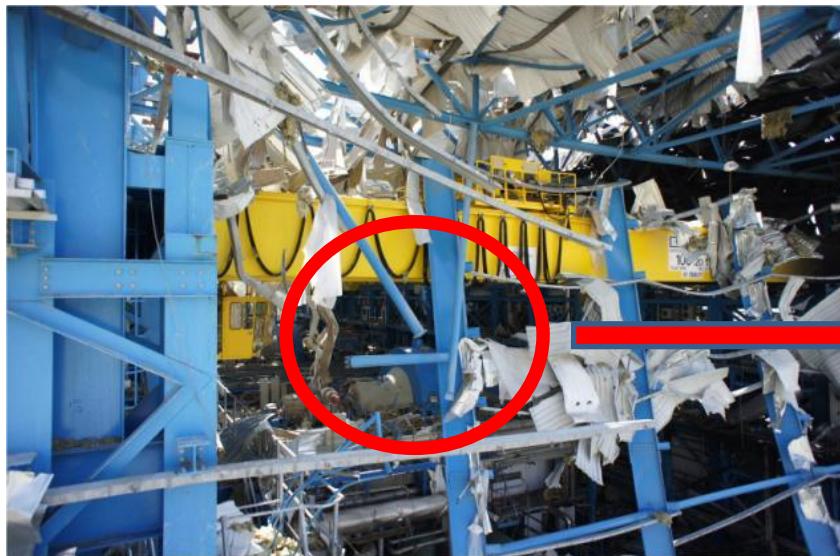
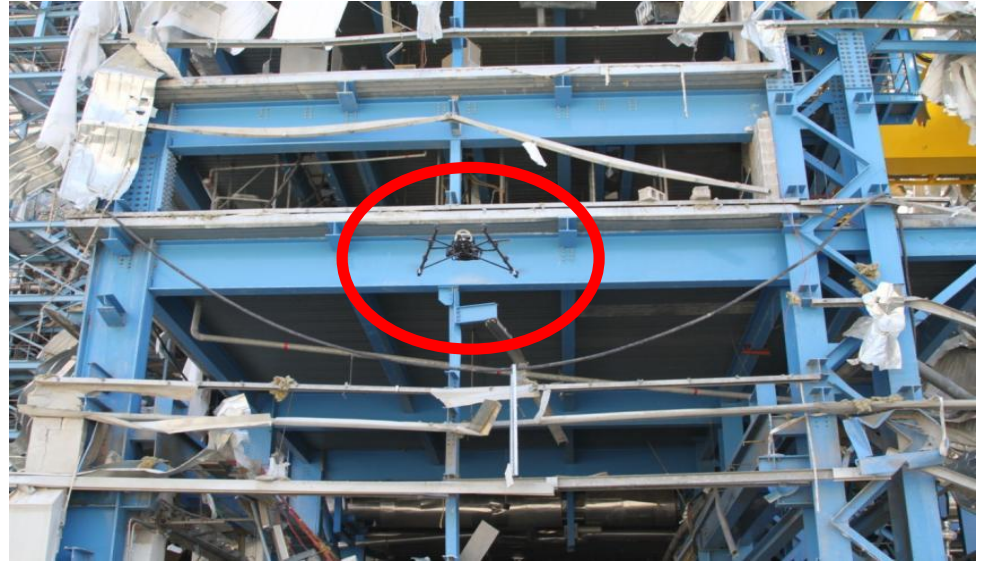




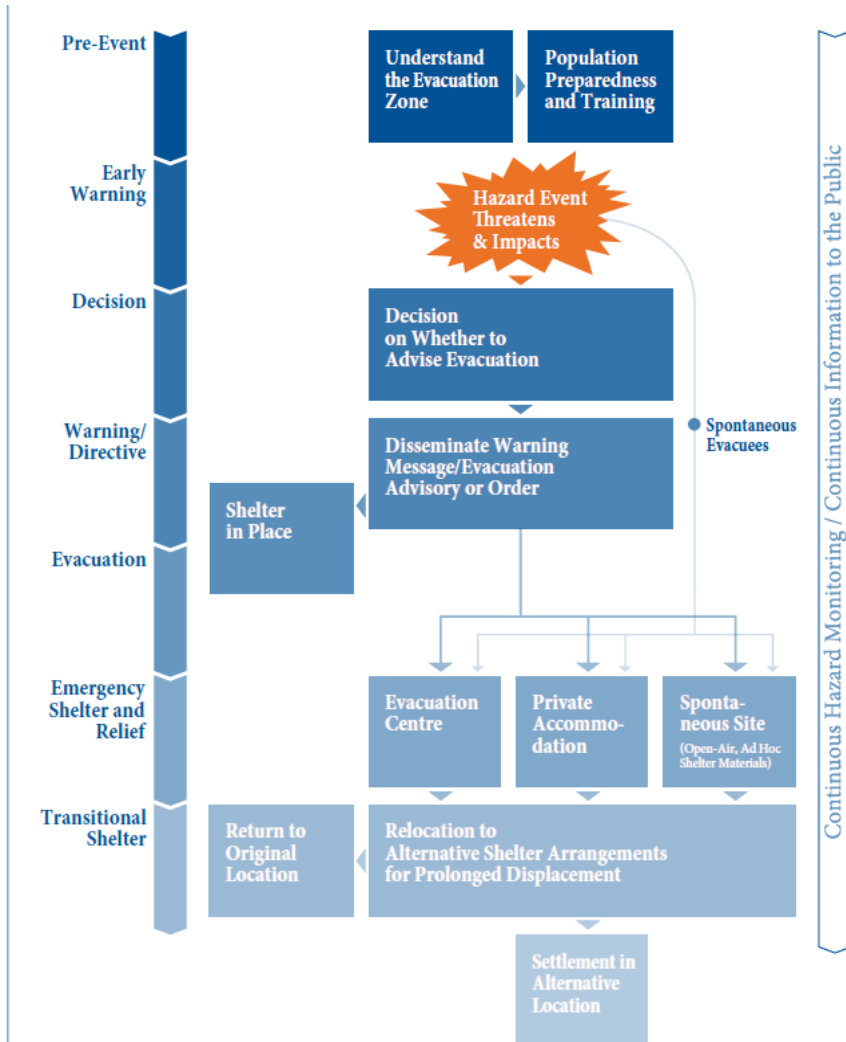
- July 11th, 05:47LT -an explosion at Naval Base
- 13 death, 65 injured people; **Use of DRONES!!**
- Destruction of Vasilikos Power Plant(VVP) and damages in villages in the vicinity
- Power shortages (VVP produced 60% of the energy of Cyprus)



# New technology – Unmanned Aerial Vehicles



# Evacuation Phases



- Pre-event
- Early Warning
- Decision
- Warning/Directive
- Evacuation
- Emergency Shelter and Relief
- Return or relocation / recovery

# Needs, Response and Time related to a disaster event

Time	Needs	Response
24h	<b>Basic needs: Food, shelters, clothes, first aid, chemical toilets</b>	<i>First response</i> of the local authorities Set up of the IDPs camps
	Information on the ongoing situation	Contact with local authorities
48h – 72h	Better understanding of the real needs	Assessment of the needs Census of the population hosted in the IDPs camps
	<b>Basic needs: Food, shelters, clothes, first aid, chemical toilets</b>	<i>Procedures</i> for collecting and distributing goods
After 72h to.....	Reactivation of the social and community network	<b>To promote community meetings and social activities</b>
	Information on the ongoing situation	Structured <i>Info points</i> with representatives of the local authorities
	To upgrade the provided services	Standardization and improvement of the IDPs camps in terms of services provided (e.g. Kindergarten, Library, Sporting area....)





# Summary



- **Pre-Planning: Analysis and contingency plans**
  - **Prepositioning of relief goods and items**
  - **Evacuation Centres, private accommodation, open air (esp. after earthquakes), ....**
- **Training according to contingency plans**
- **Information sharing (incl. Early warning)**
- **Evacuation according to most urgent areas/hot spots(Priority zones)**
- **Always need for :**
  - **Food,**
  - **Shelter,**
  - **First Aid,**
  - **WASH**



Thanks a lot for your attention!

Any questions?