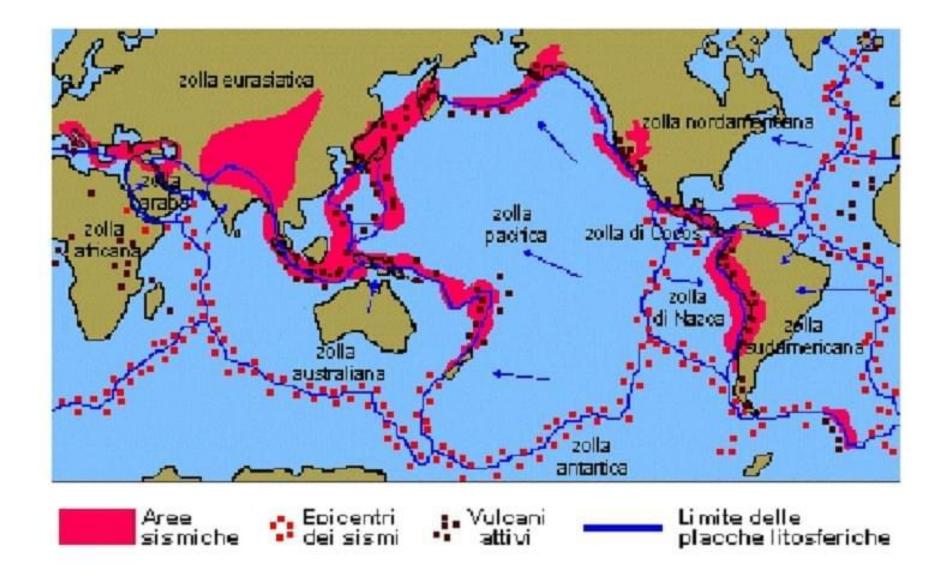
# **ARE NATURAL** DISASTERS **PREDICTABLE?**

Agostino Miozzo

### PREDICTABLE (MEANING)

- Anything that you can see or know before it happens is predictable.
- Something that is predictable happens in a way or at a time that you know about before it happens.
- Able to be foretold or declared in advance: new technology allows predictable weather forecasting.
- Expected, especially on the basis of previous or known behavior.

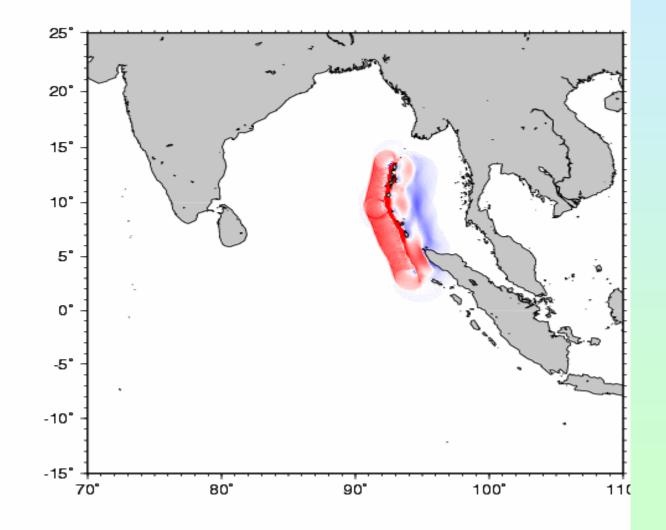
#### Zone sismiche



#### Simulazione dello tsunami: propagazione dell'onda







#### VULNERABILITY



Extreme frailty of buildings located in coastal areas, where tourist infrastructures are close to the sea

Lack of knowledge of tsunamis and complete absence of information on how to behave in case of emergency



Common weakness of local civil protection response system

### NATURAL AND MAN MADE DISASTERS, CRISIS AND CONFLICT ARE

# PREDICTABLE

# HIGH RISK REGIONS ARE KNOW

### WE HAVE THE KNOWLEDGE, THE INSTRUMENTS, THE CAPABILITIES TO:

PREVENT CRISIS, REDUCE VULNERABILITY, BE PREPARED TO FACE ANY NATURAL OR MANMADE DISASTER

### NATURAL AND MAN MADE DISASTERS **ARE PREDICTABLE BUT** .... WE ARE NEVER PREPARED TO FACE THEM

# WHY?

### WHAT IS MISSING IS THE

## POLITICAL WILL

### TO RESPOND TO WARNINGS



#### IN CASE OF EARTHQUAKE, GO TO HIGH GROUND OR INLAND







SOSUTH EAST ASIA 26 December 2004 Earthquake and tsunami

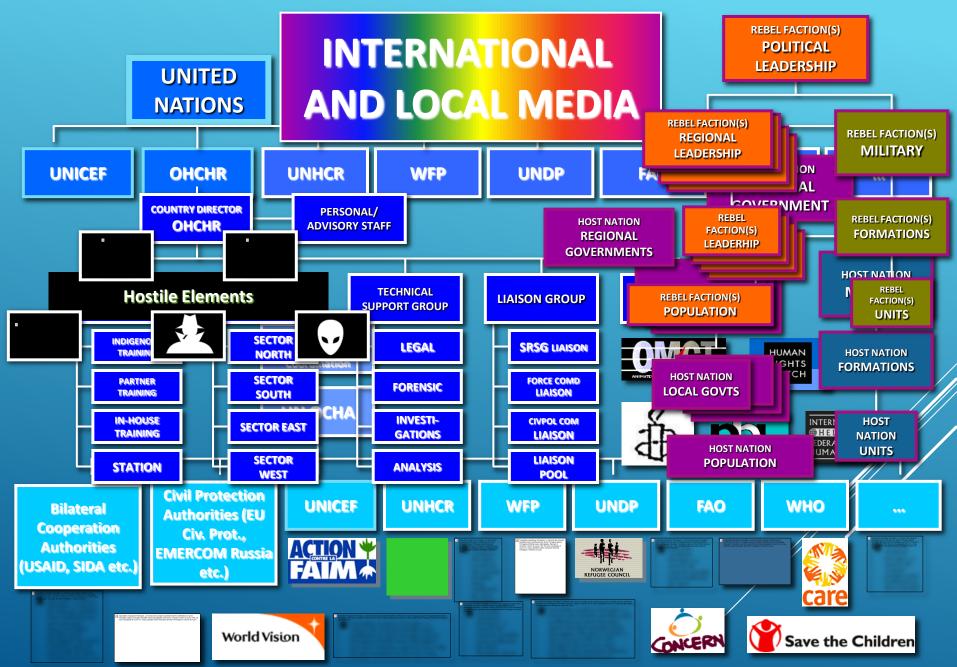


Are Recipient Countries ready (and organized) to receive foreign support?

### ARE RECIPIENT COUNTRIES READY TO ASK TO THE DONOR COMMUNITY THE SUPPORT THEY REALLY NEED?

### IS THE DONOR COMMUNITY **READY TO PROVIDE (IN DUE** TIME) THE ASSISTANCE THAT IS ADEGUATE TO THE **NEEDS OF THE RECIPEINT COMMUNITY?**

#### **CRISIS MANAGEMENT**:





SINGAPORI

MALAYSIAN EMBASSY



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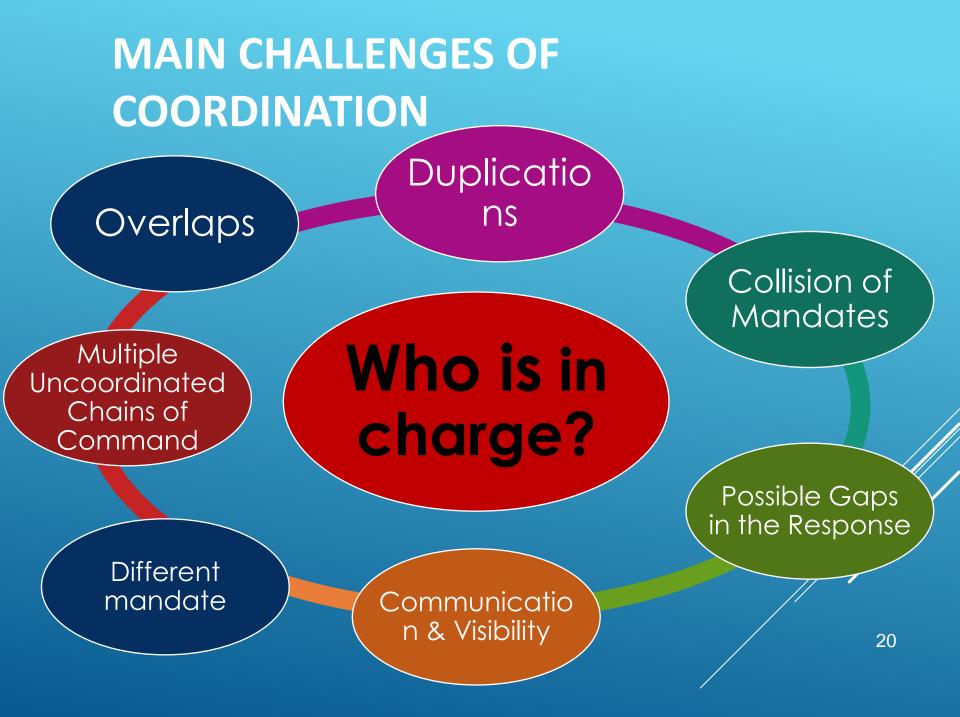
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### COORDINATION

- the process of organizing people or groups so that they work together properly and well
- the organization of the different elements of a complex body or activity so as to enable them to work together effectively.
- the ability to use different parts of the body together smoothly and efficiently.
- Coordination is the act of arranging, putting things in order, or making things run smoothly together

#### the regulation of diverse elements into an integrated and harmonious operation

- the skillful and effective interaction of movements
- The act of making all the people involved in a plan or activity work toghther in an organized way



# ITALY IN SRY LANKA

#### Magnitude 9.0 Richter scale - SOUTHEAST ASIA 26 December 2004, 7:58:00 local time (1:58 Italian time)

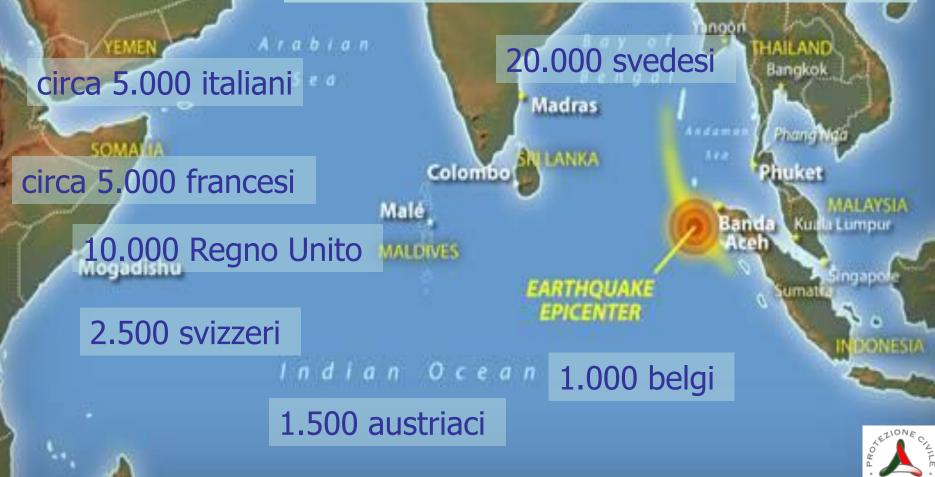
- The seriousness of the situation has been immediately recognised by the Italian Civil Protection, assessed on the extent of the event and on the factors which determine the risk in those areas, namely:
- high hazard
- high vulnerability of infrastructures
- high value, particularly in that season of the year

#### ESPOSIZIONE

SAUDI ARABIA

#### **ZONE DENSAMENTE POPOLATE**

particolarmente elevata in questo periodo dell'anno la presenza di turisti stranieri nelle regioni colpite dallo tsunami; rilevante è il flusso di europei, ad esempio:



#### **INFORMAZIONE GLOBALE SUL FENOMENO**



Per la prima volta viene ripreso uno tsunami da numerosi video che ne filmano l'arrivo sulle spiagge



L'osservazione diretta, attraverso il materiale fotografico, satellitare e video raccolto, consente agli studiosi di accrescere le conoscenze scientifiche sul fenomeno

La disponibilità in tempi molto brevi sui siti internet di informazioni scientifiche sullo tsunami consente a molti di conoscere il fenomeno e di inquadrarlo nelle conoscenze geodinamiche e sismotettoniche dell'area Magnitude 9.0 Richter scale - SOUTHEAST ASIA 26 December 2004, 7:58:00 local time (1:58 Italian time)

5.30: Crisis Unit of the Department of Civil Protection

10.30: Operational Committee of Civil Protection in coordination with the Consular Crisis Unit of the Ministry of Foreign Affairs and the Monitoring and Information Centre of the EU Commission:

> Tourists departures to Southeast Asia were cancelled

 Arrangements for the immediate dispatch to the area of
 military and commercial flights for the repatriation of affected tourists, and

medical teams and equipment

17.30: departure of the first Italian civil protection team; two additional teams will leave later at night



#### 27 December 2004 - 01.48 Italian time Return of the first 171 Italians from Malé - assistance at the airport

PROTEZIONE CIVILE NAZIONALE



#### Italian airlift 26 December – 3 January

Return flights pax 26 12 DPC 14 Commercial Italian Passengers3967Foreign Passengers341of which316 Europeans5 Africans5 Africans3 Asians17 AmericansTOTAL4308(Maldive 3142 – Thailandia 579 – Sri Lanka 587)

#### PHUKET Italian Team for the identification of dead

14

YOW

ng Hospital 076-342632-



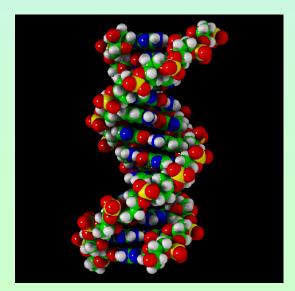




#### BANCA DATI GLOBALE DEL DNA

Un comitato internazionale viene creato per procedere all'identificazione delle vittime attraverso la definizione del DNA di ciascuno

Vengono diffuse sui siti internet le fotografie delle vittime al fine di accelerare il riconoscimento delle salme



#### **ASSISTANCE TO THE AFFECTED POPULATION**



#### PHASE TWO: ITALIAN SOLIDARITY

Mobile phone services (Tim, Vodafone, Wind, 3, together with Rai, Mediaset, II Corriere della Sera)

Landline phone services (Telecom Italia e Fastweb)

TG5 and II Corriere della Sera

#### **Department of Civil Protection**

Via SMS text messages

**Calls from landline numbers** 

**Bank account number** 

**Credit cards** 

Direct bank transfers to the civil protection accounts

About EURO 45 MILLION

Dona 1 euro alle popolazioni dell'Asia inviando uno o piul SMS al numero 48580.

#### L'ARRIVO DEI PRIMI AIUTI DELLA PROTEZIONE CIVILE PER LO SRI LANKA



#### 28-30 dicembre due voli di linea

150 tende, farmaci e materiale sanitario di primo soccorso (10 tonnellate)

#### 7 gennaio un cargo

natante per il pattugliamento delle coste 110 tende PI-88 sistema satellitare e ponti radio *offerte delle Regioni italiane:* 

> potabilizzatori, imbustatrice per acqua, dissalatori, nebulizzatore medicinali, materiale e apparecchiature sanitarie per i PMA e l'ospedale di Matara (30 tonnellate) materiale scolastico e cancelleria

#### 7 gennaio due C-130 AM 90 tende PI-88

9 gennaio volo di linea offerte delle Regioni italiane:

medicinali e materiale sanitario di primo soccorso (10 tonnellate)

**18 gennaio volo di linea** 230 tende PI-88 *offerte dalla Regione Calabria* 



Left on 31 December and arrived at Ratmalana airport in Colombo on 3 January

From 8 to 16 missions per day for trasporting Italian civil protection, EU end UN personnel and equipment from Ratmalana to Trincomalee and Unawatuna





From 8 to 12 flying hours per day

#### THE FIRST MEMORANDUM OF UNDERSTANDING WITH THE GOVERNMENT OF <u>SRI LANKA</u>



AMBASCIATA D'ITALIA COLOMBO

Memorandum of Understanding between the Government of Italy and the Government of Sri Lanka on operation of Italian Aircraft in Sri Lanka for provision of humanitarian relief to the areas affected by the Tsunami of 26<sup>th</sup> December 2004.





AMBASCIATA D'ITALIA

H. E. Ambassador Salvatore Zotta Embassy of Italy in Sri Lanka

On behalf of the Government of Italy

Hon. Nimal Siripala De Silva Minister of Health Care and Nutrition and Uva Wellassa Development On behalf of the Government of Sri Lanka

Memorandum of Understanding between the Government of Italy and the Government of Sri Lanka on Emergency Relief Programs in the Health Sector



#### **8 INTERVENTION AREAS**

**District of Trincomalee District of Matara District of Galle District of Gampaha District of Ampara** District of Jaffna **District of Hambantota Nord-Est Area A TOTAL OF 41 PROJECTS** Out of which: 11 implemented by the Department of Civil Protection 30 by NGOs and other Italian and international organizations EURO 49.790.761 (out of which € 5.120.970 financed

by the civil protection fund











#### **TYPES OF INTERVENTION**

#### Restoring living conditions

Emergency shelters rehabilitation of damaged houses Rebuilding work (housing an sewerage)

#### Health

Rebuilding of hospitals and maternal and child health units

#### **Fisheries**

Rehabilitation of fishing livelihood (boats, nets, infrastructures, etc.)

#### Social and economic development

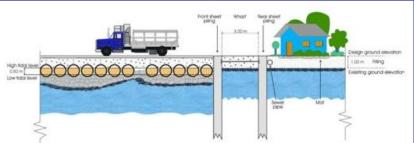
Institutional support to the local fire fighters department

#### **Water and sanitation** Rehabilitation of the water and sewage

Rehabilitation of the water and sev system

Reconstruction of public schools





- RESETTLEMENT IN INTERNAL REMOTE AREAS
- OCCUPATION OF THE AREAS CLOSE TO THE SEE
- LEGISLATION THAT OBLIGED TO LIVE 200/300 MT FAR FROM THE SEE (NEVER RESPECTED)
- TSUNAMI A GOOD OPPORTUNITY TO «CLEAN» THE BEACHES FROM ILLEGAL HOUSES
- SOFISTICATED HOUSES SCHOOLS
  HOSPITALS ABANDONED VERY SOON

### Pakistan 8/10/2005 - Earthquake











