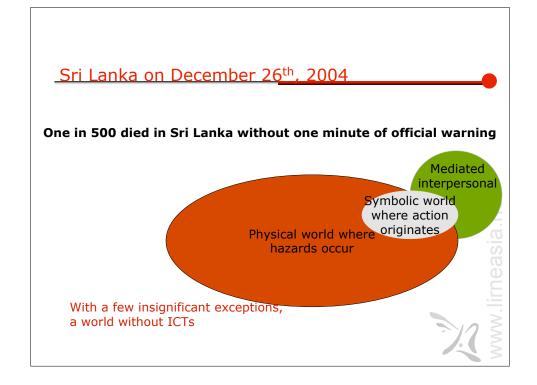
## **Determination of Hazard from the National Level: Sri Lanka Experience**

Natasha Udu-gama 25 October 2007 Dhaka, Bangladesh





### No "button" pressed for Dec. 26, 2004 Tsunami

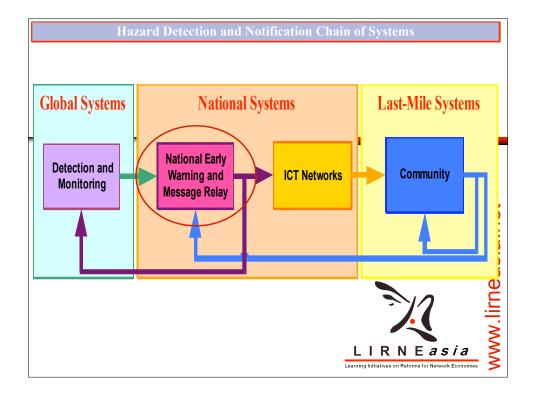
- □ 00:58:53 UTC: A monster earthquake, measuring 9.0 on the eastern Indian Ocean near Sumatra, Indonesia, causes an enormous wave packet that starts moving towards northeast and southwest.
- 02:33 UTC: A tsunami hit the east coast villages in Sri Lanka.
- 03:45 UTC: PTWC received a call from a Sri Lankan Navy Commander inquiring about the potential for further tsunami waves from aftershocks.
- ☐ Geological Survey and Mines Bureau of Sri Lanka knew of the occurrence of the earthquake. Not tasked to issue warnings and did not have the capacity to interpret seismic data

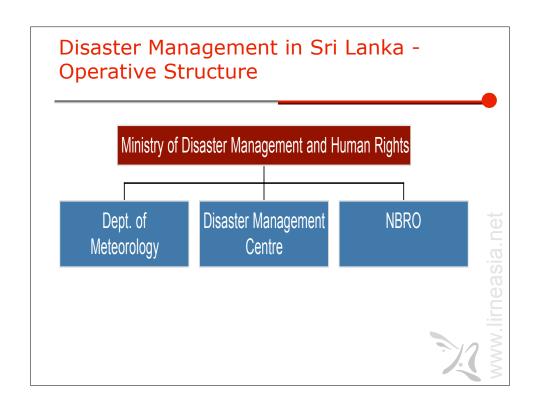
### "Button" pressed on 12 Sept. 2007, but...

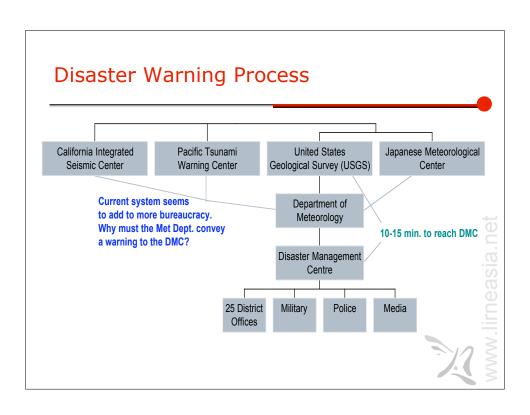
- ☐ 4:40pm (IST): Earthquake hits off of southern Sumatra
- □ 5:18pm (IST): Authorities are saying "warning" at a time when only "alerts" should be sent out.
- □ 5:55pm (IST): Radio and tv stations have issued a tsunami warning. PTWC issues a tsunami watch for Sri Lanka.
- □ **5:57pm:** The DMC issues a tsunami warning, people near beaches urged to evacuate.
- ☐ **6:00pm:** Sarvodaya DD reports that the HIH will be manned overnight by two HIH personnel. If required a voice alert by the ED will be issued to all Sarvodaya villages.
- □ 6:05pm: SL's largest phone provider, Dialog Telekom, is having difficulty obtaining information from the DMC. Then the phone lines start getting cut. Only SMS messages seem to be getting through.

# "Button" pressed on 12 September, but... (cont'd)

- ☐ **6:11pm:** Tsunami warning confirmed for the eastern,northern and southern SL coasts from the Met Dept..
- ☐ **6:25pm:** DMC sends another SMS warning for North, Eastern and Southern coasts, people are to move from the coast.
- ☐ **6:26pm:** CNN reports there is no indication that a tsunami has been generated
- ☐ **6:36pm:** TV- Met Dept. reports existence of a tsunami warning. People advised to stay away from the coastline.
- ☐ **6:44pm:** MDMHR secretary says that people need to be vigilant and evacuate.
- ☐ **6:48pm:** A small tsunami has hit Padang, Indonesia. SriLanka expects a small tsunami by 7:30.
- □ 7:34pm: The DMC sends another SMS lifting the tsunami warning. USGS has increased quake magnitude to 8.2.
- 8:05pm: CNN reports tsunami threat passed. Dialog Telekom has made a cell broadcast the following message "Tsunami Warning Avoi".



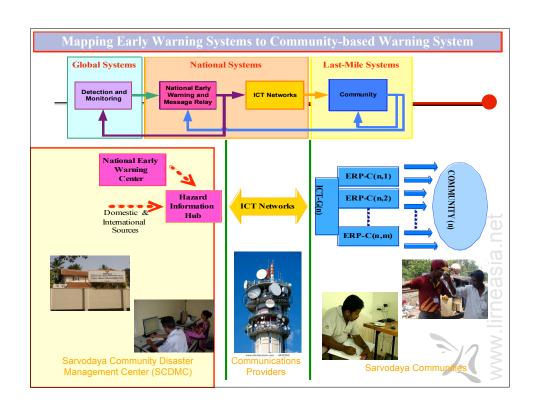


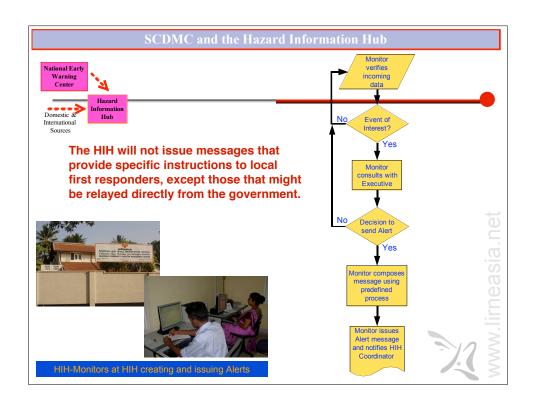


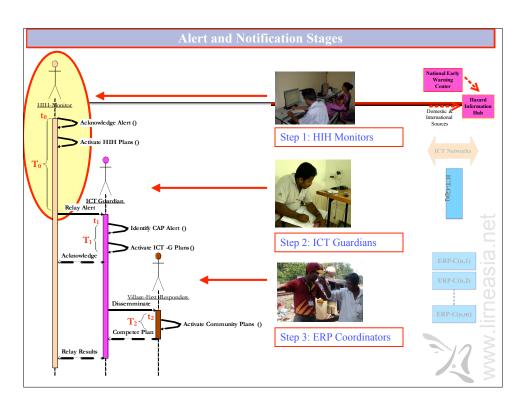
### Categories of Tsunami Notification in SL

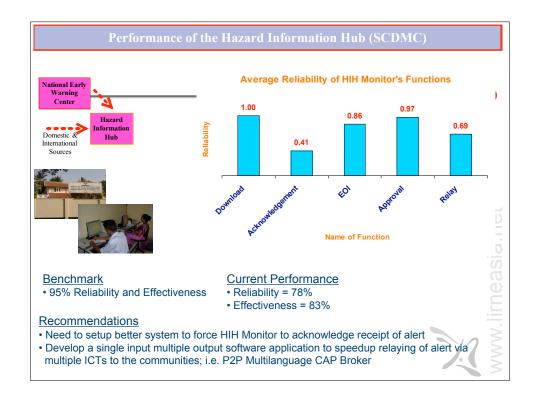
- □ 6.5 < M < 6.9 EWC officials keep close watch on the sea level situation. No official bulletin will be issued.
- ☐ 7.0 < M < 7.4 Earthquake <u>Information</u> Bulletin will be issued as soon as possible stating the location, magnitude and the outlook.
- □ 7.5 < M < 7.7 Tsunami <u>Advisory</u> Bulletin will be issued requesting people in the coast line to be vigilant and to be ready for evacuation at short vigilant and to be ready for evacuation at short notice.
- ☐ 7.8 < M A Tsunami <u>Warning</u> will be issued with evacuation notice.











# Gaps in the determination of a hazard at the national level

- Politicians in charge of decision-making on creating and disseminating warnings
- □ No precise means of sending warnings to community members (i.e. chain ends at mid-level warning recipients)
- ☐ Disaster notification levels not explicitly delineated for use in all hazards (only vaguely tsunami)
- Communities are not participants in the warning process but only recipients of government mandated preparedness and mitigation programs

