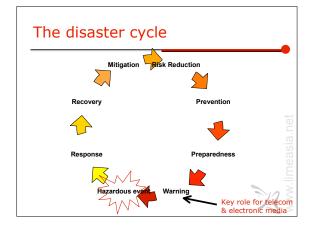
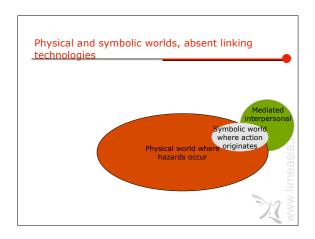
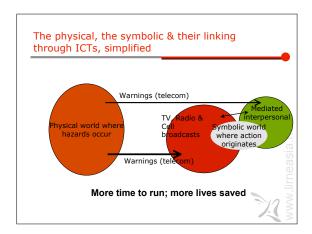
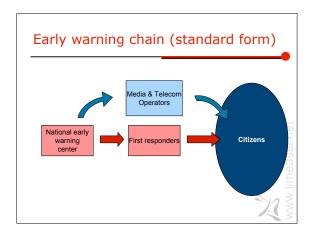
Elements of a community-based warning system* * and its relation to a public warning system Rohan Samarajiva Presentation at Workshop on Sharing Knowledge 19 November 2007, New Delhi

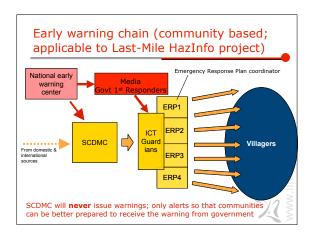
Agenda The disaster cycle and the role of ICTs in disaster risk reduction through warning Parallels between the classic public warning model and the community-based hazard information model Early warning center -- Hazard information hub Communication to first responders - communication to community leaders Last mile

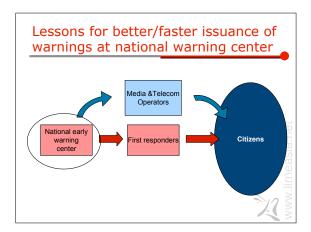












Scale of the problem Imagine sequentially dialing and giving the message to Television channels (7 in Sri Lanka) Radio channels (10+) Telecom operators (8) If each call takes 3 minutes, need 75 minutes for the whole set (leaving aside government first responders) 2004 Indian Ocean tsunami reached Komari/Arugam Bay coastline within 90 mts of earthquake Detection-monitoring people require 15 mts minimum to issue a warning, so all we have in 75 mts Faster we get the message out, more time for people to respond

Efficient procedures can improve decision making and avoid bad outcomes

- ☐ Getting the best possible information to national experts
- More time for experts to consider the options and advise authorities
- ☐ False warnings can cause
 - Deaths (more than 10 in Sri Lanka in the 2005 evacuation)
 - Robberies
 - People refusing to evacuate

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Pilot project results

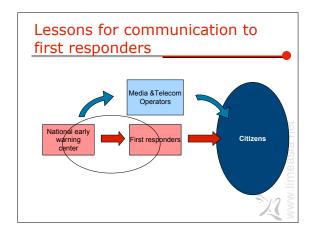
- ☐ Efficiency of receiving the outputs of hazard detection and monitoring system
- Procedures for authorization of message, if any
- Efficiency of transmitting message
 - Role of Common Alerting Protocol
 - Single-input multiple-output mechanism

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Elements of a solution re transmitting messages

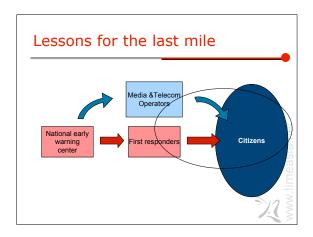
- ☐ Filling in of standard template that includes automatic translation based on look up of dictionaries
- ☐ Single button transmission in multiple media and multiple languages
- ☐ Achievable in a few months
 - Need to develop internal protocols
 - CAP broker software
 - Equipment at media newsrooms and telco operations rooms
 - Procedures for verification that do not involve a oneon-one phone call







Eight mode	s (individual and combined)
Reliability a neasures)	nd effectiveness (composite
,	tary redundancy



Community specific Forms of training that will work Levels of organizational strength Importance of emergency response plans Plan without simulation is no plan Simulation without plan cannot be done

