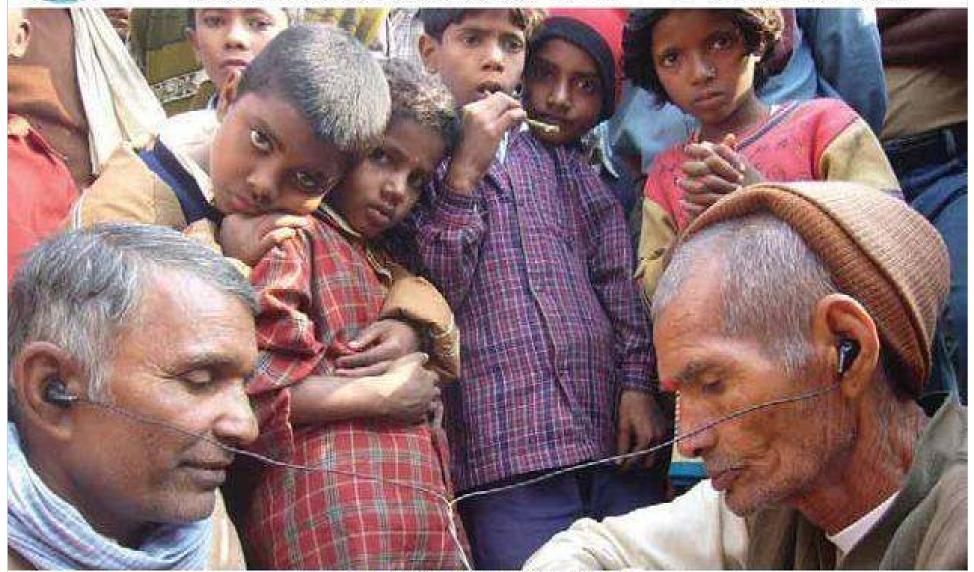


#### Sharing Knowledge on Disaster Warning: Community-based Last-Mile Warning Systems

India Habitat Centre, New Delhi - 19 November 2007 -



SURESH MARIASELVAM
TAMIL NADU TSUNAMI RESOURCE CENTRE - CHENNAI



Highlights of Mr. Bill Clinton's speech at the Third International Early Warning Conference in Bonn in his capacity as the U.N. Special Envoy for Tsunami Recovery.

......did to marry old-fashioned communication with modern technology, the so-called "last mile" of the early warning system. It's something that we dare not forget in our UN work for the tsunami...

All the sophisticated technology won't matter if we don't reach real communities and people. Satellites, buoys, data networks will make us safer, but we must invest in the training, the institution building, the awareness raising on the ground.

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« Goa to achieve complete literacy by 2010

New e-Government website launched »

# i-Government is a interactive, peer-to-peer platform that aims at providing e-Gov champions with information on better strategies and policies for good governance.

All these through 24X7 news updates, on-the-ball follow up stories and reports, objective analysis, thought provoking columns, detailed case studies and insightful nation wide surveys.

» More On i Government

iGovernment Daily

#### Better role of information in emergencies

🕝 October 24, 2007 | events, international and news. |

**New York:** The United Nations kicked off a week-long event on Monday in Geneva which would focus on improving humanitarian responses during emergencies through better information.

The event, Hosted by the UN Office for the Coordination of Humanitarian Affairs (OCHA), aims at bringing together governments, non-governmental organizations (NGOs), scientists, academics, the media and the private sector to improve current humanitarian operations through new technology and improved information practices.

Mentioning that the role of information in humanitarian operations cannot be overstated, the UN Under-Secretary-General for Humanitarian Affairs and Emergency Relief Coordinator John Holmes said, "It is the key element for accurate analysis, which underpins effective coordination, evidence-based advocacy, sound policy and effective action."

## Tamil Nadu Tsunami Resource Centre (TNTRC)

TNTRC is the result of a felt need of UN / INGOs to coordinate efforts among all stakeholders in recovery.

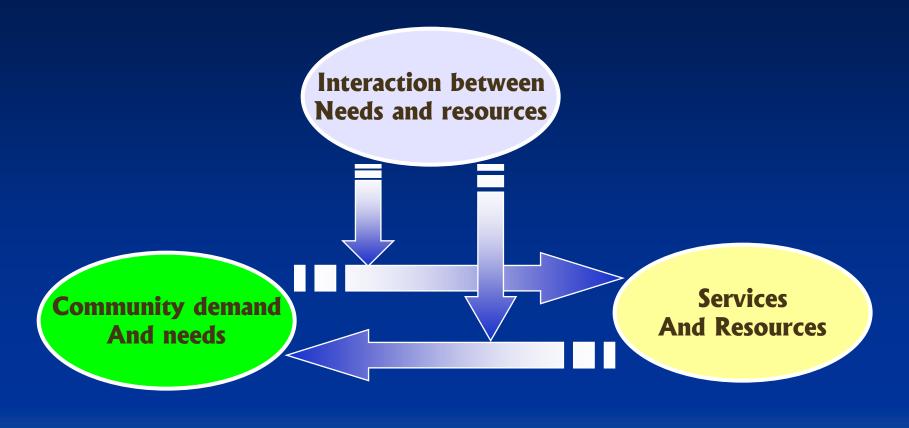


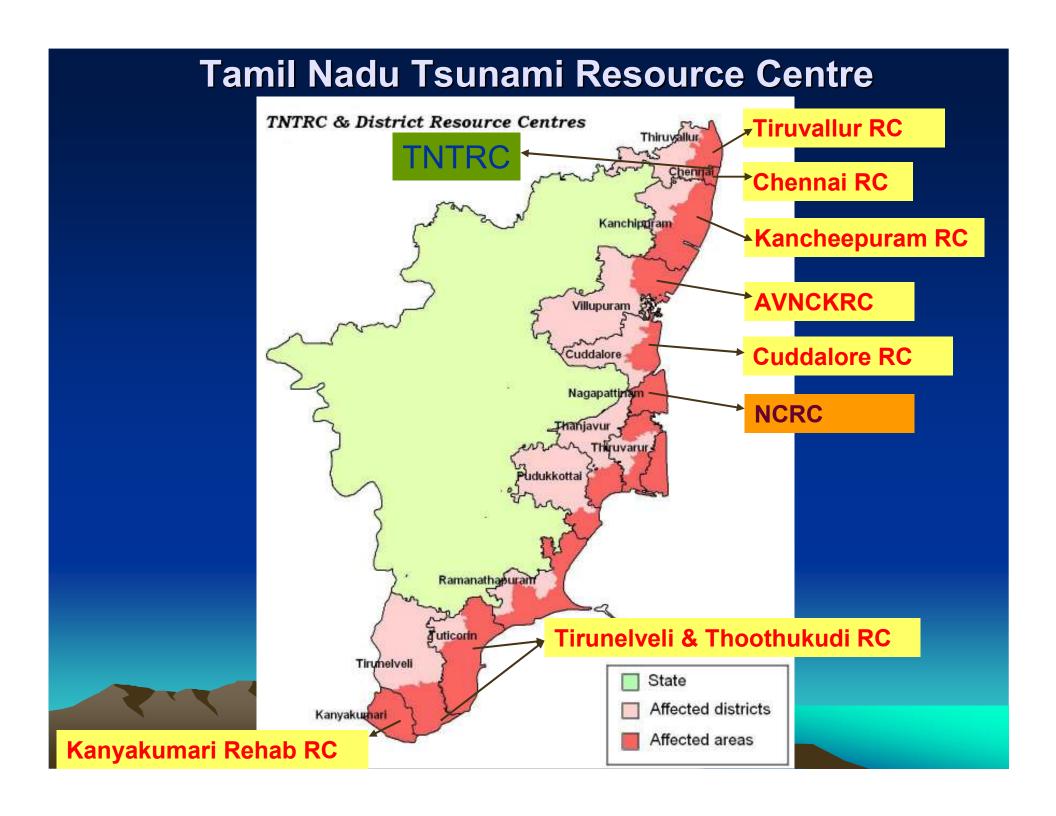
#### TNTRC facilitates -

- Information sharing
- Knowledge networking
- Coordination among recovery actors in order to contribute to a more coordinated and equitable support to tsunami-affected communities

It acts as a bridge between the government system and Civil Society Organizations

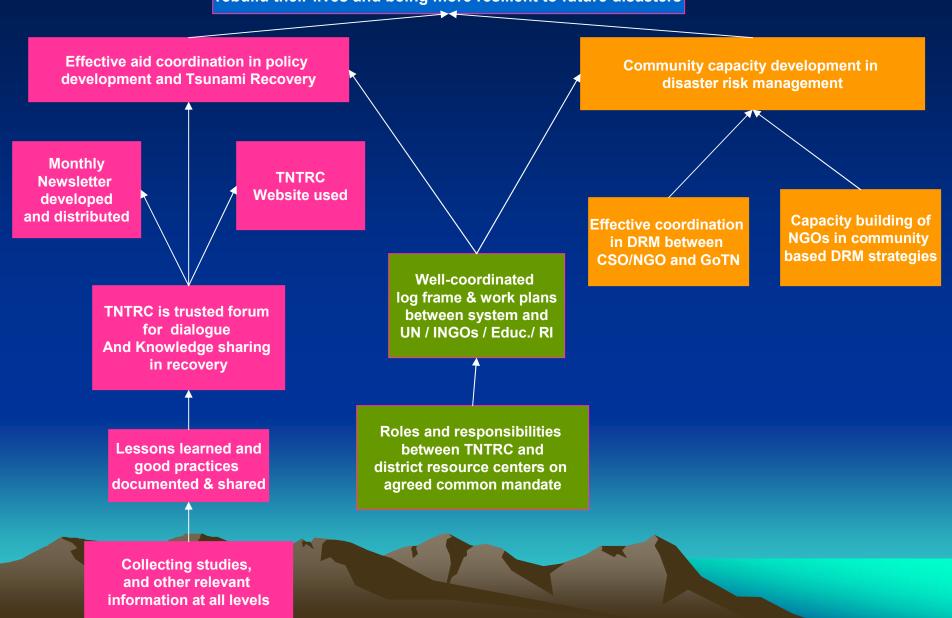
# Tamil Nadu Tsunami Resource Centre (TNTRC)





# Highlights of TNTRC's activities

Tsunami affected families receiving assistance to effectively rebuild their lives and being more resilient to future disasters



# **Model of Village Information Centre**









## **Village Information Centre**

#### SERVICES AVAILABLE

- ❖ Computer education
- ❖ Computer aided school education
- Computer aided Adult Literacy
- Computer training
- ❖ Offline content & training
- **❖** Job work
- ❖ Meteorological information
- ❖e-mail & browsing
- ❖ Daily market price
- Community news
- \*GPS
- \*Local News paper

- **♦** Online Resource Consultations
  - ■Eye care
  - ■Health
  - -Agriculture
  - Legal
  - •Education
  - Animal husbandry
  - Fishery sciences
- ❖ Community web portal (new)
  - ∘*ECKO*
  - ∘*Vyapaar*

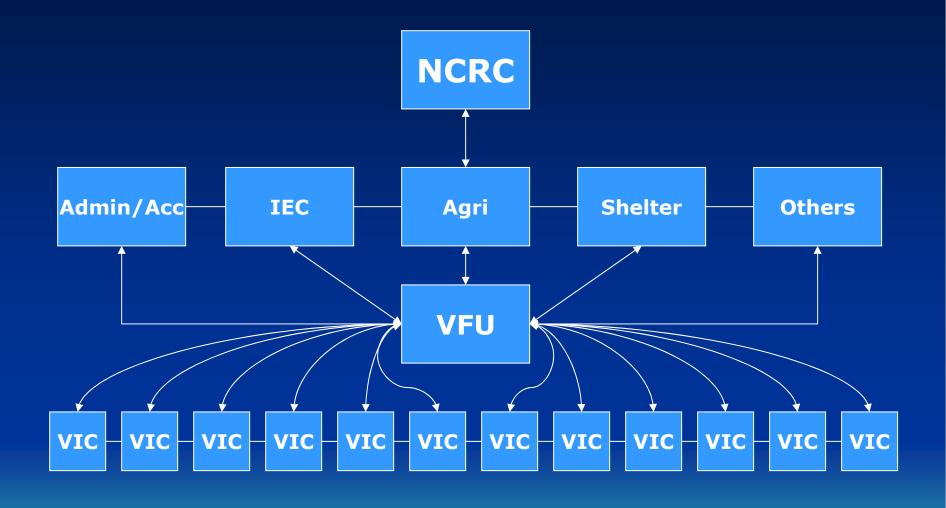
## Village Information Centre – Learning

- Assessment of village profile after a disaster situation.
- Learning the culture, problems, issues, local panchayat system and livelihood patterns of community.
- In depth understanding of problems and issues faced by women.
- The policies of Government related to Coastal Regulations Zone.
- Knowledge about minimum standards in the construction of permanent and temporary houses.
- Acquaintance with tools like PRA and PLA for any developmental plan.

# Players in Village Information Centre

- M.S.Swaminathan Research Foundation
- DHAN Foundation
- Pondicherry Multipurpose Social Service Society
- Dicipleship Centre
- Sathyabama Deemed University
- Nagapattinam Coord. & Resource Centre
- SIFFS
- Kottar Social Service Society

## **NCRC VKC/VIC model**



## **Community Radio**

# **Key aspects of Community Radio**

- Non-profit making
- Community ownership and management
- Community participation

## **Concern for Community radio**

- Highlighting community issues
- Access to government services
- Civil society information
- Weather forecast as part of DM and LH



# **Community Radio - Players**

- ANNA FM is the first campus based community radio in the country. ANNA FM aired from the smallest, completely digital, tape less, and multi purpose Studio, from the smallest campus of Anna University at 90.4FM to most of Chennai (for 15 kms). ANNA FM is on 7 days a week between the hours of 5.30PM-9.30PM (live programs) and 6AM-10AM (repeat telecast).
- Kalanjiam Samuga Vanoli, a community Radio Station for the communities affected by Tsunami has been set up at Nagapattinam District of Tamil Nadu. The Centre for Development Communication of DHAN Foundation facilitates this process along with the communities of Keelaiyur block, a federation of farmers' groups promoted by it. This initiative is supported by the UNDP and technical support is provided by VOICES, Karnataka

# **Community Radio – TNTRC activities**

- Facilitated a state level workshop and a field visit jointly with Anna University and DHAN foundation in June to encourage the NGOs to start Community Radio service

   Experts from DD/AIR and the players in CR field shared their knowledge and experiences
- Coordinated through AV NCKRC for a Regional Workshop at Southern level jointly orgnized by UNDP, DHAN foundation and VOICES, Karnataka in Sept.
- Released publication for NGOs on CR covering the licensing modalities, government regulations, establishment costs and content building

## **Community Radio – Learnings**

- NGOs and communities see the value and show keen interest in promoting this simple media
- Organised social infrastructure lays the foundation for CR especially after Tsunami
- Simplification of licensing modalities Approval for 5000 licenses by Gol
- Involving local government officials for content and programming is difficult due to lack of clarity.
- Response from children and elders are overwhelming for programming

## **Community Radio – Challenges**

- Hurdles in the Policy CR license need 3 years experience makes the process delayed
- Moving from participation & management into ownership and control – Sensitization of the community is needed
- Involving women among the male domination
- Sustainability Cost coverage by community
- Integrating with mainstream disaster warning systems – building location specific warnings

## **Experiments with mobile technology**

In remote and inaccessible areas for dissemination of various types of info

- Alerts for important fund releases;
- organization of health camps and polio vaccination camps;
- Weather and disaster alerts;
- Citizens could inform their problems and issues and could also send requests for information under the RTI Act

# New initiatives- Deployment of Buoy by INCOIS & PMSSS

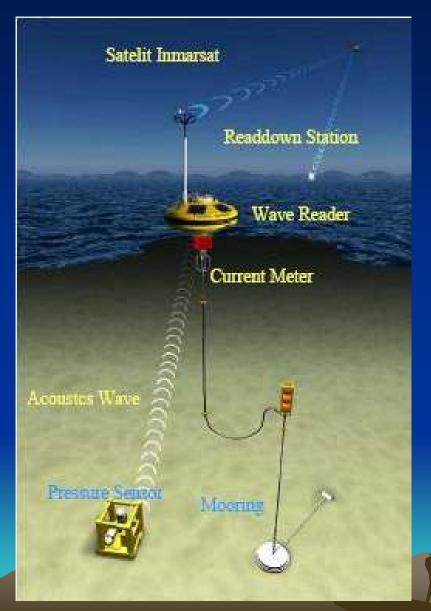


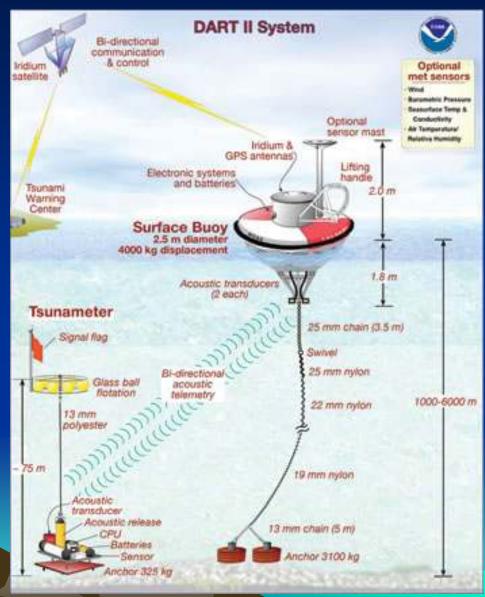






## New initiatives- Deployment of Buoy by INCOIS & PMSSS





#### New initiatives- Deployment of Buoy by INCOIS & PMSSS

- Telecast through / DD / AIR / Local Cable TV Networks
  - Weather Forecast
  - Wave Height Information
  - Potential Fish FindingZones



#### New initiatives- Digital Board with Siren & Microphone



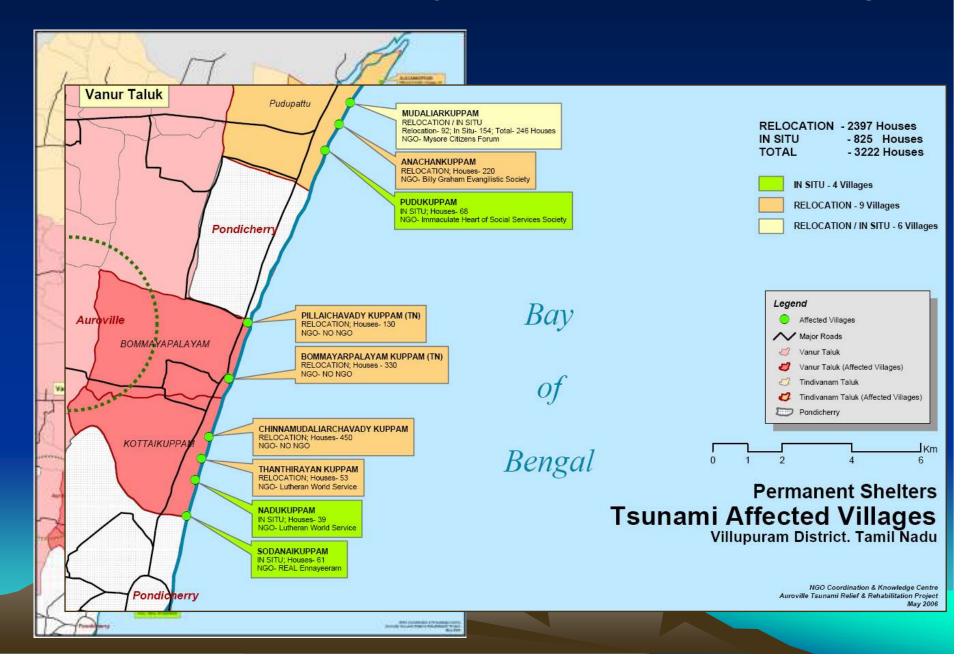


Ocean Information System Sponsored by INCOIS, Hyderabad.

#### Other initiatives - GIS by AV NCKRC - Recovery tracking



#### Other initiatives - GIS by AV NCKRC - NGO mapping



#### Other initiatives – **Telemedicine by ARAVIND EYE HOSPITAL**



With high-speed links to the hospital, three of the clinics, also known as vision centers, screen the patients. Centers are run by a nurse trained in eye care. Patients first see the nurse, then spend about five minutes on a web camera consulting with an Aravind doctor. If the doctor determines that a closer examination or an operation is necessary, the patient is given a hospital appointment.

#### Other initiatives – BSNL & Indian Coast Guard, Pondicherry

#### BSNL

- Optic fibre connectivity for connecting networks
- SMS 'Push Through' technology & MMS for pictures
- Technical support for sensor technology
- Support to VIC with high-speed internet facility

#### Indian Coast Guard

- Use of satellite communication for assistance in searching the missing boats and fisher folks
- Equipped with hi-tech facilities to provide EW alerts
- Capacity building in using GPS panels & instruments

#### Other initiatives - UNDP & GoTN at Cuddalore, Tamil Nadu





UNDP has installed a VHF system at Cuddlore Collectorate as part of the EWS project. VHF receivers are setup at 55 villages and connected to PA system at villages and 15 mobile units that enable the Collector to communicate in a short time

#### Future ICT initiatives for 'Last mile' connectivity

In the coming years ICT, will potentially redefine the conventional DRM. A concerted effort is needed to develop operational systems integrating recent technology to achieve a effective DM infrastructure.

- 1. ICT Government initiatives
- Disaster Information System
- Critical Incident Management System
- Supply Chain Management System
- Integrated Financial Management System
- Applicant Assistance Centers
- Computer Networks
- 2. NGO initiatives
- Upgraded VIC/VKC/VRC/VFU/CMC
- Effective Community radio systems
- Mobile / SMS service
- Education / Training / Capacity building
- 3. Community Initiatives
- Practicing preparedness
- Community mapping / updating
- Responding to EWS

#### **ACKNOWLEDGEMENTS**

Pondicherry Multi-purpose Social Service Society DHAN Foundation / Kalanjiam Samuga Vaanoli Nagapattinam Coordination and Resourc Centre Discipleship Centre M S Swaminathan Research Centre Auroville Networking & Coord. Knowledge Centre Bharat Sanchar Nigam Limited Indian Coast Guard Aravind Eye Hospital



