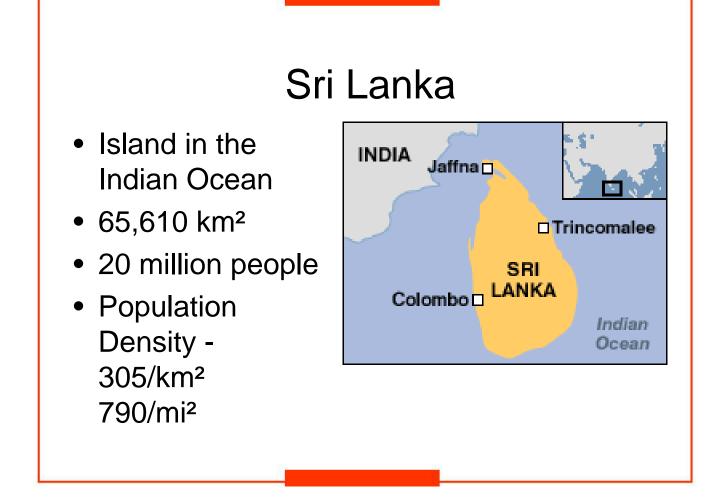
## Building Resilient Communities; A Post-Tsunami Experience from Sri Lanka

Dr.Vinya Ariyaratne *General Secretary* Sarvodaya Shramadana Movement

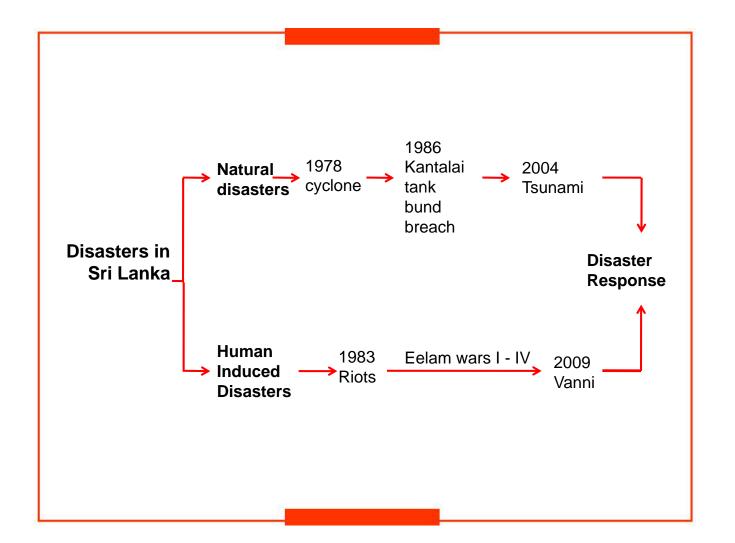


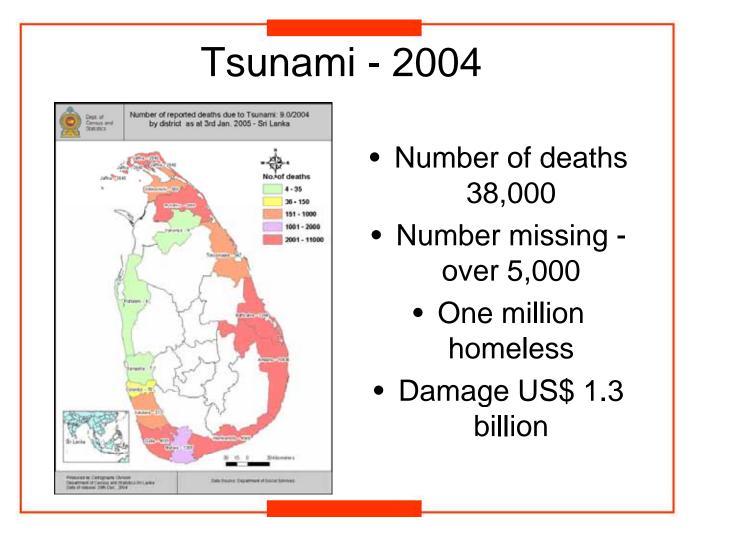
# Natural Disasters in Sri Lanka

- Hydrometeorological disasters
  - Floods
  - Landslides
  - Cyclones
  - Coastal erosion
  - Tsunami
- Drought
- Epidemics









## "Waves of Compassion"



 Local Community/Religious Leadership/ Local Organizations
National Organizations/Private Sector
Government/International Community

# Tsunami - 2004

- Marked a significant change in policy, approach and public perception on natural disasters
- Greater attention received towards mitigation and risk reduction
- Parliamentary Select Committee Appointed





### Tsunami Recovery – Generic Lessons learnt

Issue	Description	Need
High Altruism – Low "Technique"	Many issues were addressed with subjective approaches without a scientific basis Gross Overlapping	More internal and external coordination, Information sharing, Regulatory mechanisms, Protocols, Multiple levels
Resources spent on relief and infrastructure building than community level capacity building	Low attention on community level capacity building and lack of positive results	Learn more from the communities, advocate learning by the community for the community.
Ownership and participation	People who actually face the reality got less opportunity to give inputs to planning	Provide community more opportunity for experience sharing and participate in DRR related programs

## Tsunami Recovery – Generic Lessons learnt

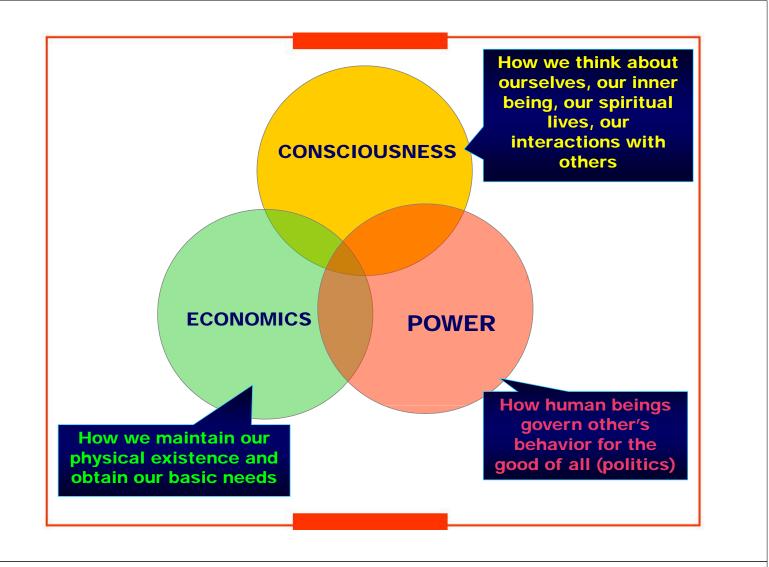
Issue	Description	Need
Who makes the final decision?	Emphasis less on community participation in decision making	Empower the community with adequate information and skills to have their own DRR Plans and Decisions.
Psychosocial Issues disregarded	After suffering with the civil strife for more than 25 years; tsunami and other social issues have increased vulnerability Being sensitive towards other socio-cultural issues when planning DRR activities (ie.religious beliefs)	Hazard X <b>Vulnerability</b> ()= Risk Capacity Plan to minimize factors increasing Vulnerability

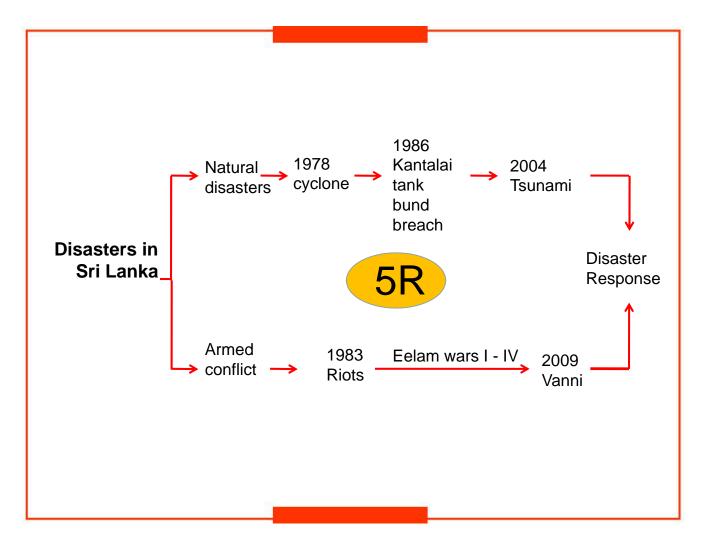
# Sarvodaya Approach

 Based on its holistic approach to development









# Sarvodaya Approach

- Based on its holistic approach to development
- Post-Tsunami "From Tsunami to Deshodaya" (National Reawakening)
- R Strategy
  - Relief
  - Rehabilitation
  - Reconstruction
  - Reconciliation
  - Reawakening
- Community Based Disaster Risk Management (CBDRM)





## Community Based Disaster Risk Management (CBDRM)- Rationale?

- Communities bear the direct impact in a disaster
- They are also the first real-time responders to every disaster
- They are aware of locally available resources
- Have the most authentic knowledge of local risks and vulnerabilities
- They are also the reservoir of time-tested knowledge of coping mechanism



## Community Based Disaster Risk Management (CBDRM)

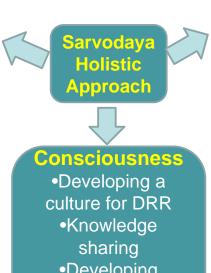
- Communities are the best assessor of disaster damages
- Communities can also be the best evaluator of disaster recovery
- Communities are the ultimate target of any disaster preparedness plan
- Is there true commitment to this approach?
  - Institutional mechanisms
  - Capacity building
  - Resourcing



### Sarvodaya Vision and CBDRM approach

#### **Economy**

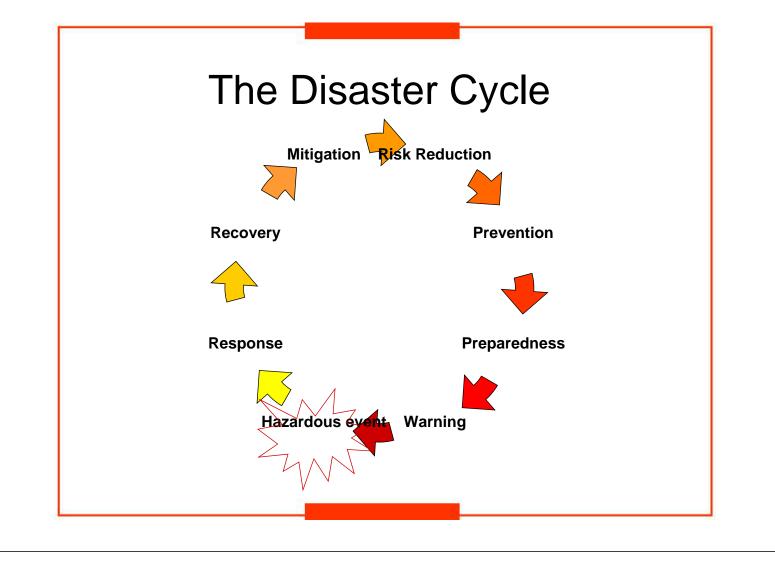
 Disaster resilient livelihoods
Addressing total economic wellbeing with Economic development programs, SEEDS



#### •Developing resilient communities through spiritual wellbeing

#### Power

•Empowering communities to take decisions on DRR strategies by providing information and training •Providing necessary materials



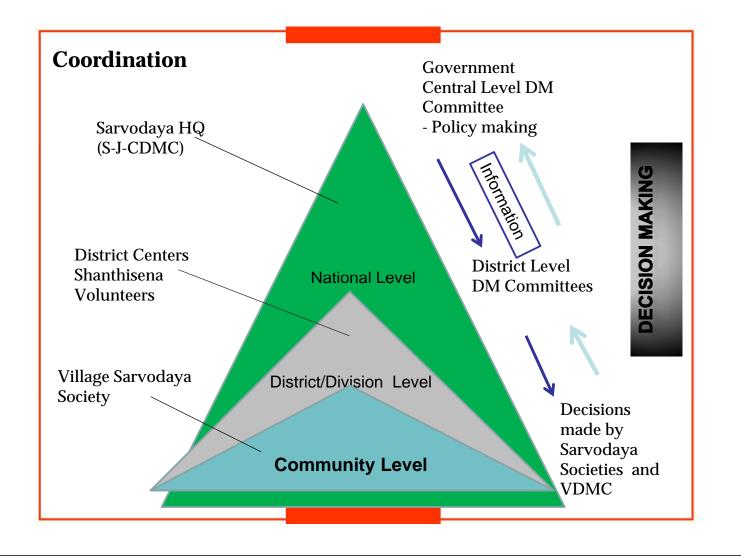
## Sarvodaya Community Disaster Management Centre

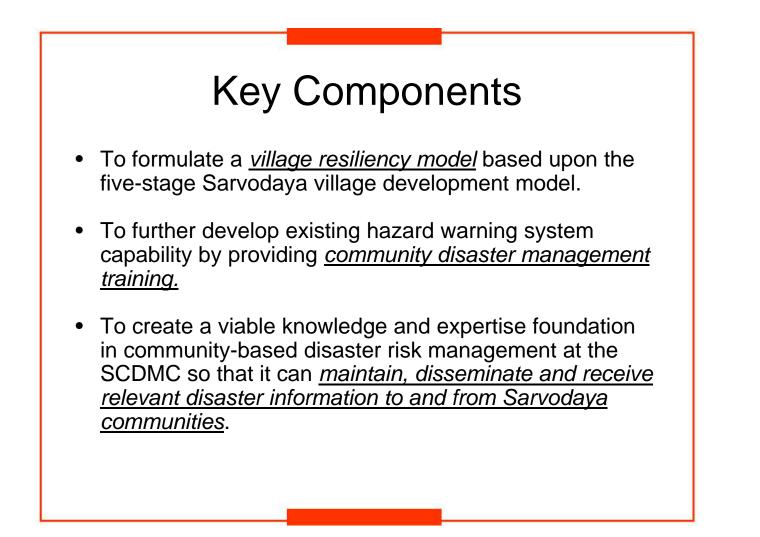
#### Objectives

- To make all Sarvodaya Service Villages Disaster Resilient and Responsive
- To enhance Sarvodaya Disaster Management Capacity and Practice

#### Components

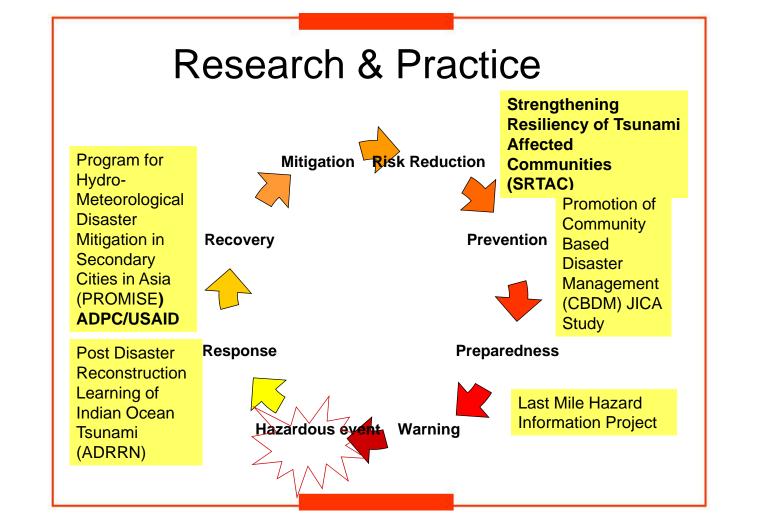
- Community-based Disaster Risk Management and Village Resiliency
- Integration of Disaster Management Practice within Sarvodaya
  - Capacity Building
  - Communications and Command Center





## **Vulnerability Context**

- Degraded environment soil erosion, siltation, salination, man made and natural destruction of coastal vegetation and eco system
- Increased vulnerability to natural hazards settlement in unsafe locations, lack of disaster preparedness measures, lack of appropriate technology in DRR & livelihoods - tsunami, floods, cyclones, sea water intrusion, dengue outbreaks
- Limited/fragile natural resource based livelihood options fisheries, paddy farming
- Weak marketing linkages
- Limited/weak community institutions and lack of initiatives
- Weaker relationships between the community and local mechanisms & authorities
- Inadequate/poorly maintained livelihood infrastructure



## **Bio shield Establishment**





**Nursery Training** 









#### Disaster Risk Management Hazard Mapping





Livelihood Development



# Case Example: Andaragasyaya

- Flood were an annual recurrence destroying crops making farming a risky proposition
- Previously the canal was 6 feet wide and badly silted
- Using heavy duty equipment the canal was widened to 30 feet width.
  Flooding of paddy fields have been stopped
- In addition alongside 4 acres were opened up for mangrove planting. Canals were dug in the "fish bone" design following the model tested by MSSRF India
- Mangrove seedlings are acquired from Matara Thalalla community known for their expertise in Mangroves





## Learnings from Post-Tsunami Projects

- Building the livelihood asset base in itself will not assure the sustainability of livelihoods; unless there is supportive governance mechanisms/structures
- Community alone cannot take the leadership in DRR as the space for input to development decisions is minimal
- Sensitivity to gender roles and improved gender relations are vital for effective livelihood development and DRR
- Disasters should be considered as a development issue and the capacity of local governance institutions should be built to assess, plan and implement risk sensitive development
- Ecosystem based holistic approach should be adopted to address and enhance resilience







## Community First Responder Training

## **Community infrastructure improvement**

#### **Gaminipura**

Simple low cost interventions - landslides risk - evacuation routes.





#### Kumbalgamuwa

In the Kumbalgamuwa there is a bridge in the main road damaged by the landslides.

Temporary bridge has been constructed by the community but which is not safer to use although more than 150 people including school children are using this temporary bridge daily.

Since which is the only road direct to the main road which is an important point in the evacuation path. Because when there is a disaster community have no other option to go to the evacuation centre or to the hospital. Since the permanent bridge has constructed to make it more safer as evacuation route.





## **Community Early Warning Systems**

- Establishment of sirens in Medaketiya and Kahadamodara villages in Hambantota
- Mock drills
- June 12<sup>th</sup> 2010 Tsunami



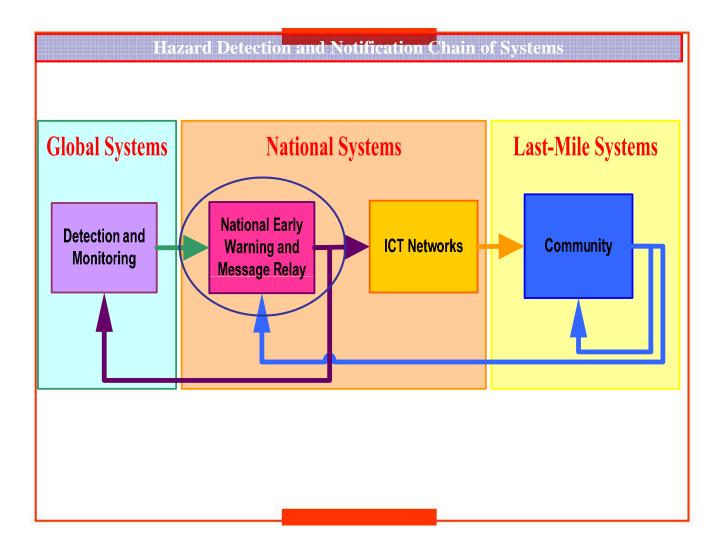




'Evaluating Last Mile Hazard Information Dissemination Project' (HazInfo project) *Rationale (supported by IDRC/LIRNEasia)* 

### To warn communities about rapid onset disasters, improvements are required on at least three parallel fronts:

- the science of rapid detection and analysis needs to be fine-tuned;
- proper institutional arrangements have to be in place to decide on and issue credible, swift warnings; and
- there should be effective ways of communicating these warnings to everyone at risk.



# Lessons Learned

- The people/community has to be at the centre of the entire recovery process.
- "People-to-people" approach can mobilize local resources and expertise effectively.
- The approach to disaster mitigation has to be an integrated one – from the classical approach to a new paradigm.
- Adoption of a "multi-hazard" approach to risk reduction with community resilience building being given greater importance.
- Institutional arrangements for mitigation, response and warning systems should be revisited, re-evaluated and clarified.



# Thank You!