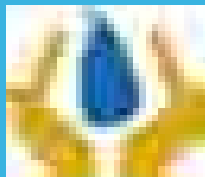
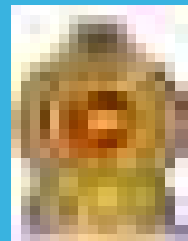
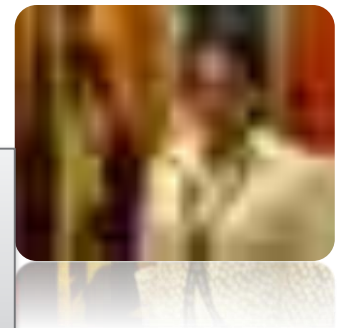


LEGAL FRAMEWORK AND ORGANIZATION STRUCTURE OF DISASTER MANAGEMENT IN SRI LANKA

DISASTER MANAGEMENT CENTRE



PRESENTER- N.S.VITHANAGE
ASSISTANT DIRECTOR - AWARENESS AND EDUCATION



University of Sri Jayewardenepura (2012-2017) PhD Geography (Reading)

University of Peradeniya (2007 to 2009) M.Phil in Earth Sciences

University of Peradeniya (2004 to 2007) Postgraduate Diploma in GIS & RS

Sabaragamuwa University of Sri Lanka (B.A.(Special) Geography

Institution	Programme	country	period
University of Kashmir	SAARC Training Programme on Children Safety Including Children with Special Needs	Kashmiri/India	06 th - 12 th November 2013
Asia Pacific Centre for Security Studies	Compréhensive Crisis Management Programme.	Hawaii-USA	8 th May-01 st July 2014
Asian Disaster Preparedness Center	Workshop 2 of Regional Training on Disaster Resilience Leadership	Bangkok, Thailand	7 th - 11 th July 2014
SARRC Disaster Management Centre	South Asia Policy Dialogue on Children	Kathmandu- Nepal	17 th -18 th September 2015
JICA	Young Leaders Training Programme	Hiroshima, Japan	29 th January -17 th February 2017
BIMSTEC	1 st Annual Exercise	Deldhi, India	10 th 13 th , October 2017

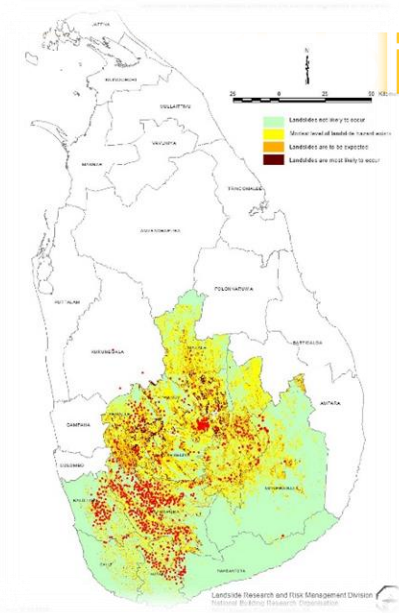
CONTENT

- INTRODUCTION
- BACKGROUND
- DISASTER MANAGEMENT ACT
- DISASTER MANAGEMENT CENTRE
- MINISTRY OF DISASTER MANAGEMENT
- POLICY OF DISASTER MANAGEMENT

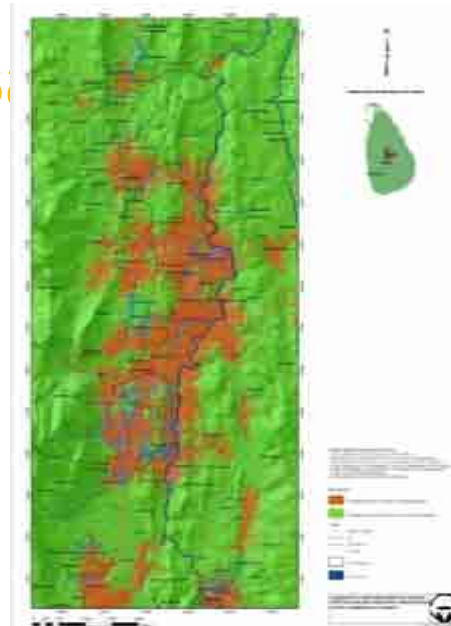
INTERNATIONAL FRAMEWORKS

INTRODUCTION

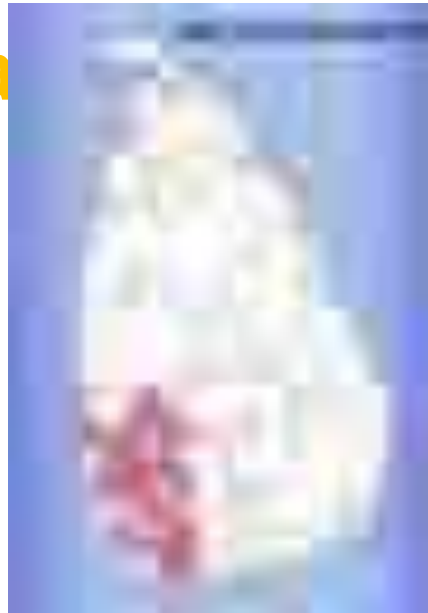
Landslide Prone areas



Land subsidence areas



Flood Prone areas during South west Monsoon (May – Sep)



Flood Prone areas during North East Monsoon (Dec – Feb)



Problematic Soils -



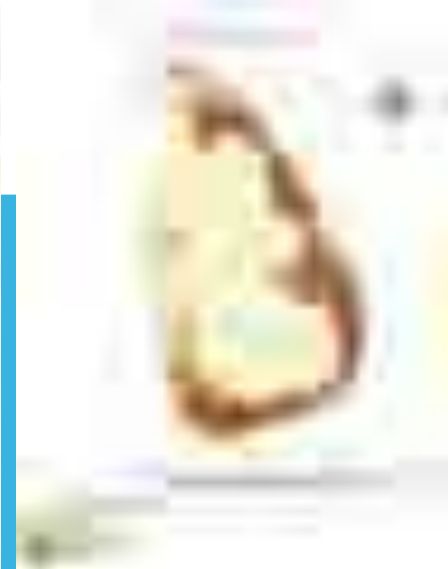
Drought Prone areas



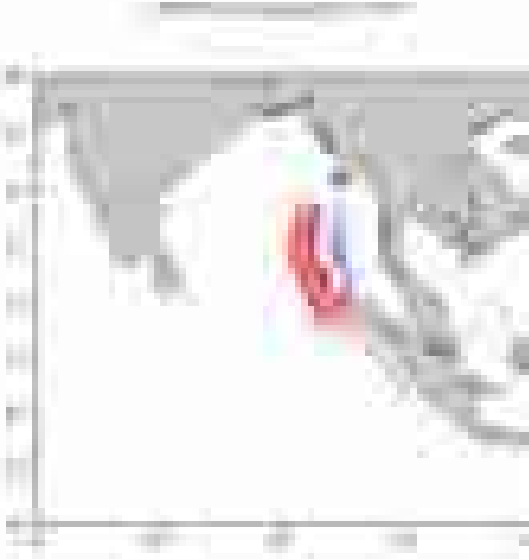
Tropical Cyclones



Tsunami Affected Coastal Areas



INTRODUCTION



- ❖ Southern, Western, Eastern and Northern coastal belt is prone to Tsunami
- ❖ The unprecedented havoc caused by Tsunami had devastated two thirds of the coastal belt of Sri Lanka.
- ❖ More than 33,000 lives were lost and 100,000 houses were completely damaged in thirteen districts along the coastal belt. Approximately 5,000 people were missing.

TSUNAMI IMPACTS

- Humanitarian
- Economic
- Environmental
- Spiritual/Psychological



TSUNAMI IMPACTS CONTD..

Humanitarian

- Since many people hurt or die in there. also, the sea water made the infrastructure fell down, and shortages of food and drink water.



TSUNAMI IMPACTS CONTD..

Economic

The impact on coastal fishing communities and fisher folk , has been devastating with high losses.



TSUNAMI IMPACTS CONTD..

Environmental

The environment also get severely effected and that will last for years

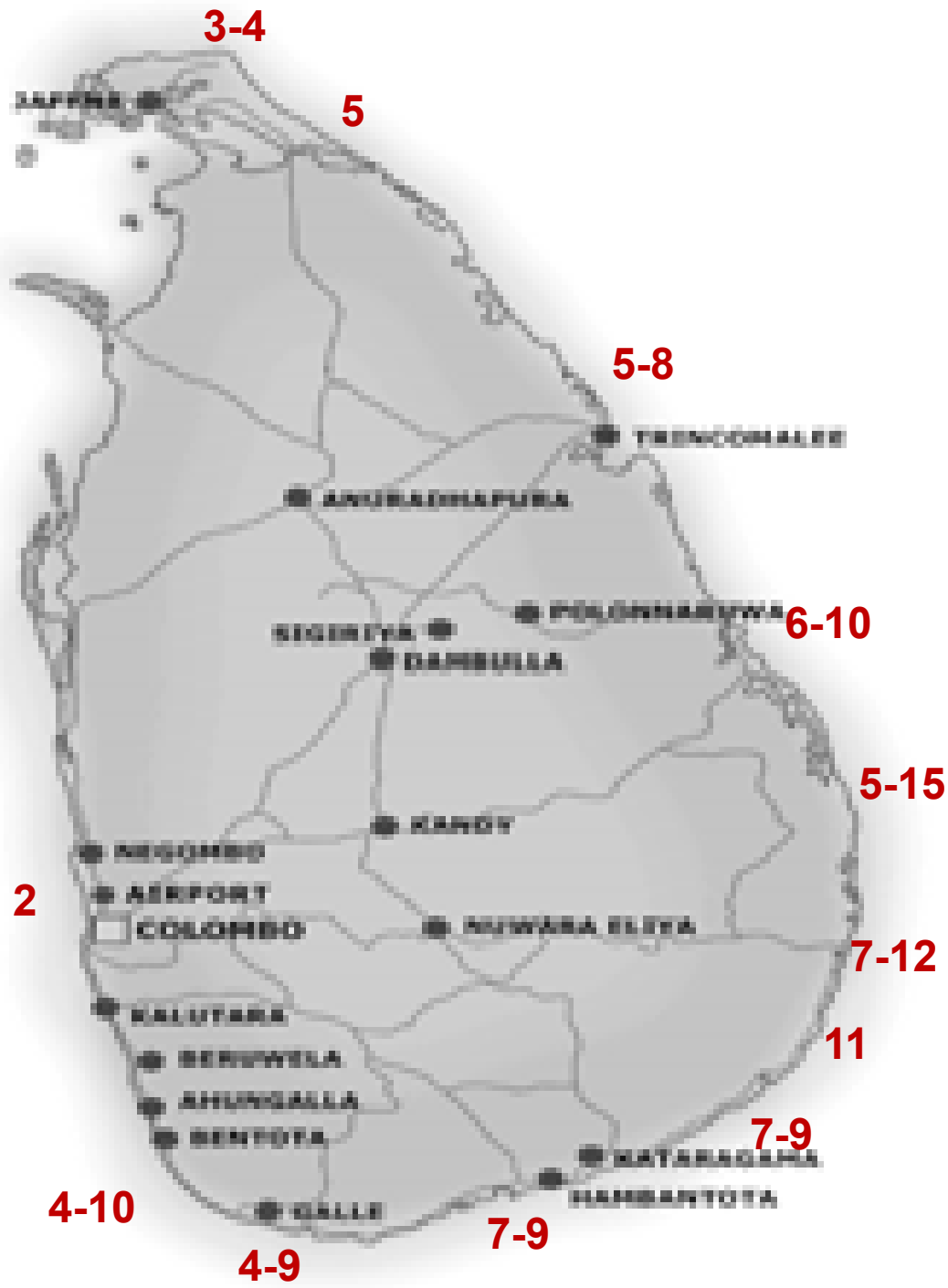


TSUNAMI IMPACTS CONTD..

Spiritual/Psychological

Many health professionals and aid workers are reporting widespread psychological trauma associated with the tsunami






TSUNAMI IMPACTS CONTD..

Deaths	30,959
Injured	19,611
Missing	1,908
Houses Destroyed	57,085
Houses Damaged	48,208
Affected	1,076,240
No. Families Affected	249,717
No . Of camps	309




Extracted from DMC records

WHY SO MANY PEOPLE DIED IN TSUNAMI

- **Lack of knowledge of the public about the serious effects of tsunami**
 - **very low people awareness**
 - **Poor Early Warning system**
 - **No proper system for receive Early Warning in night and holidays**
 - **No proper Mechanism for dissemination**
 - **Lack of preparedness**
 - **No proper mechanism for Disaster Management**
 - **Poor economic development**
 - **The buildings structure is not unfluctuating**
- 

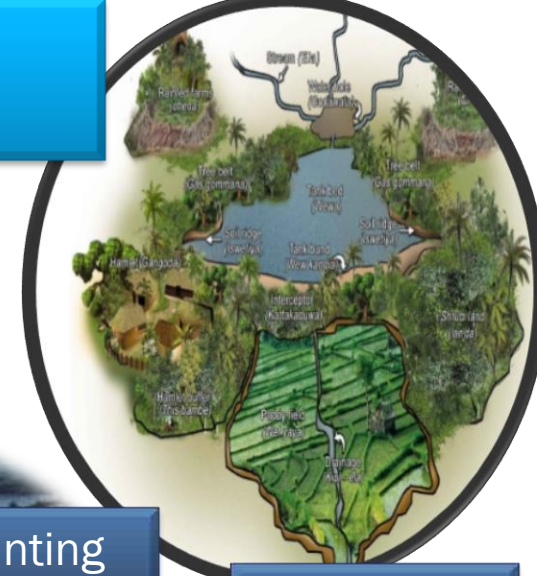
BACKGROUND OF DISASTER MANAGEMENT IN SRI LANKA

EARLY

- ❑ Ecosystem Management Approaches in early Agrarian Civilization in
kings period for Flood and Drought Management
 - ❑ Land use Management in Colonial cultivation era
 - ❑ Flood Ordinance 1955
 - ❑ 1977-1995 Department of Social Service
 - ❑ 1996 National Disaster Management Centre
- 
- Conto



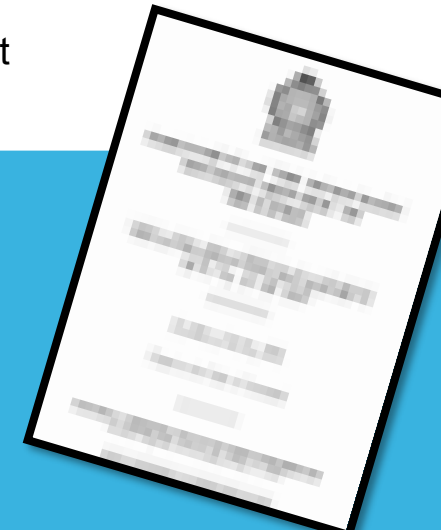
Contour planting



Cascade System

P
R
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S
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N
T

Indian Ocean tsunami of December 2004 and “Parliamentary Select Committee on Natural Disasters”
Disaster Management Act 13 of May 2005
National Council for Disaster Management (NCDM) Chaired by H.E. the President
Ministry of Disaster Management and the Disaster Management Centre (DMC)



DISASTER MANAGEMENT MECHANISUM – BEFORE TSUNAMI

Before 1977	- Department of Social Service
1977- 1988	- Department of Social Service under Ministry of Social Services
1989-1994	- Ministry of Rehabilitation , Reconstruction and Social Welfare
1994-1995	- Ministry of Health and Social Service
1995	- Department of Social Service
1996	- National Disaster Management Centre - Activities of Preparedness, Mitigation , Response and Recover y Department of Social Service - Relief

DISASTER MANAGEMENT MECHANISUM – AFTER TSUNAMI

- 2005 - Disaster Management Act / Disaster Management Centre
- 2005 - Ministry of Disaster Management
- 2006 - Ministry of Disaster Management and Human Rights
- 2010 - Ministry of Disaster Management
- 2015 - Ministry of Disaster Management , peace and Order and Christian Affairs
- 2015 - Ministry of Disaster Management
- 2018 - Ministry of Irrigation, Water Resource Management and Disaster Management

Legal Background – Disaster Management

- ❖ A Parliamentary Select Committee was appointed to review the disaster risk management in 2005
- ❖ An Interim Committee on Early Warning System was set up
- ❖ In May 2005, **Disaster Management Act No 13 of 2005** passed in the Parliament .
- ❖ The **National Council for Disaster Management** (NCDM) was established, as per the act in 2005
- ❖ The **Disaster Management Centre** (DMC) was established in 2005
- ❖ In December 2005, the **Ministry for Disaster Management** was established. In January 2006,

DISASTER MANAGEMENT ACT



DISASTER MANAGEMENT ACT

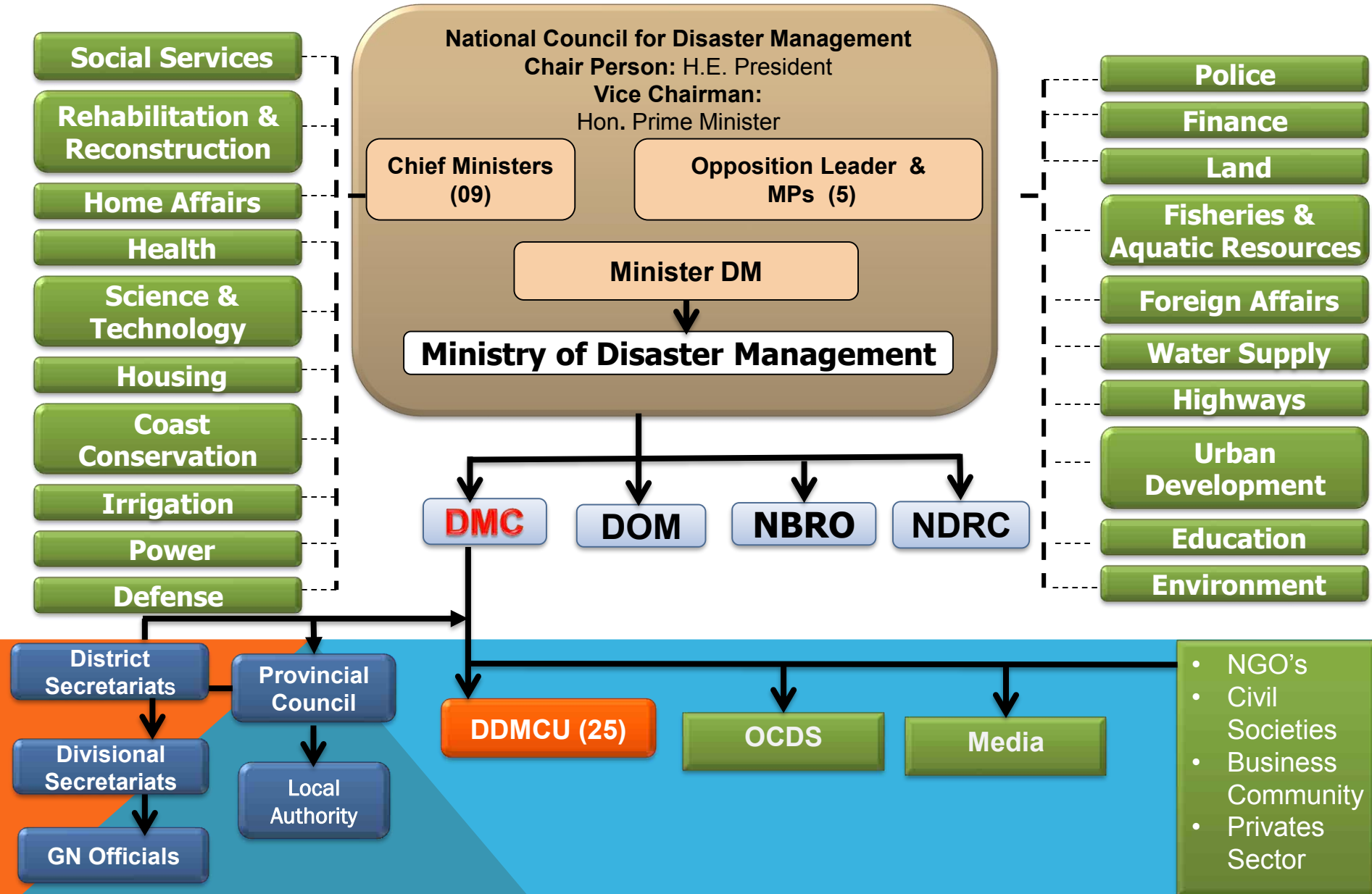
An Act To Provide For The Establishment Of The
NATIONAL COUNCILFOR DISASTER MANAGEMENT;
THE DISASTER MANAGEMENT CENTRE;
THE APPOINTMENT OF TECHNICAL ADVISORY COMMITTEES;
THE PREPARATION OF DISASTER MANAGEMENT PLANS;
THE DECLARATION OF A STATE OF DISASTER;
THE AWARD OF COMPENSATION
AND FOR MATTERS CONNECTED THERE WITH OR INCIDENTAL
THERETO.

PREPARATION OF DISASTER MANAGEMENT PLANS

Hazards list Under Sri Lanka Disaster Management Act No. 13 - 2005

- ❖ **Floods**
- ❖ **Droughts**
- ❖ **Landslides**
- ❖ **Industrial Hazards**
- ❖ **Tsunami (Seismic Wave)**
- ❖ **Earthquakes**
- ❖ **Air Hazards**
- ❖ **Fire**
- ❖ **Epidemics**
- ❖ **Explosions**
- ❖ **Air Raids**
- ❖ **Civil or Internal Strife**
- ❖ **Chemical Accidents**
- ❖ **Radiological Emergency**
- ❖ **Oil Spills**
- ❖ **Nuclear Disaster**
- ❖ **Urban and Forest Fire**
- ❖ **Coastal Erosion**
- ❖ **Tornadoes, Lightning strikes and Severe Thunder Storms**

LEGAL FRAMEWORK AND COORDINATION MECHANISUM OF DISASTER MANAGEMENT IN SRI LAKA



ORGANIZATION STRUCTURE

MINISTRY OF DISASTER
MANAGEMENT

DMC

DIRECTOR
GENERAL

ADDITIONAL
DIRECTOR
GENERAL

MITIGATION
RESEARCH
AND
DEVELOPMENT

PREPAREDNESS
AND PLANNING

AWARENESS
AND
TRAINING

EARLY WARNING
AND
24 x7 EMERGENCY
OPERATION
117 Call Center

Internal
Audit

HR/
Finance

Media
Unit

- Hazard Mitigation Development Projects
- Mainstreaming DRR
- Risk Profile and Risk Analyses

- National/District /Divisional/ GN DM Plan Preparation
- Drill/TTEx
- Institutional DM Plans

- National/District/Divisional DM committee Meeting
- Public Awareness Through Media/Exhibition
- DM Training for Military /Youth and Professional bodies

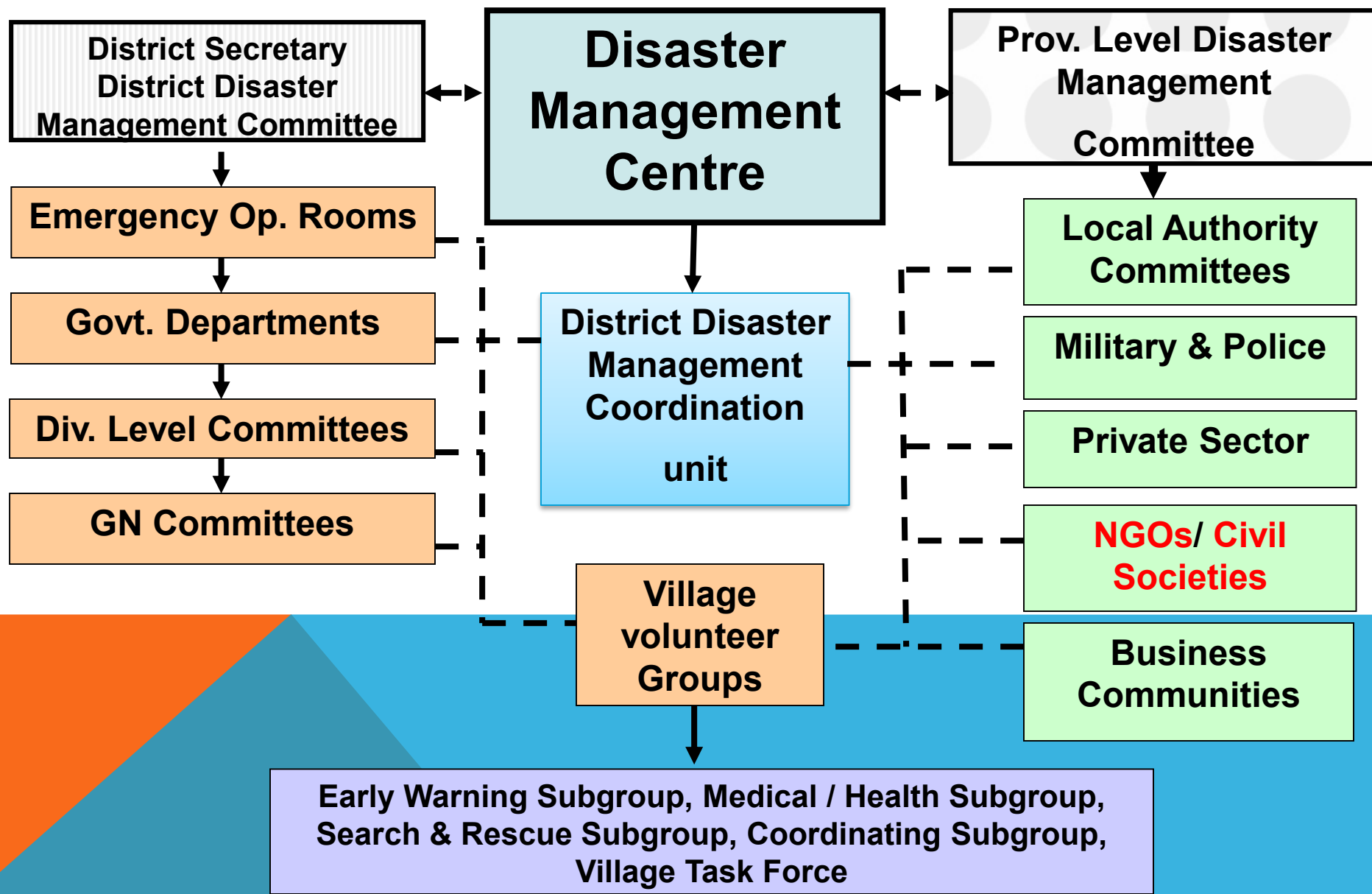
- Receiving Early Warnings
- Dissemination of Warning
- Maintaining Radio Communication
- Tsunami Towers
- Coordinating Emergency Response

DDMCU

General
Public



Disaster Risk Management Mechanism at Sub-national Level



DISASTER MANAGEMENT POLICY

Objectives of the Policy

The main objective of the National Disaster Management Policy is to establish, strengthen and maintain the following in collaboration with all relevant stakeholders:

Introduce sustainable mechanisms, structures, programmes to enhance capabilities for disaster risk management

Ensure the establishment of national, regional and local level coordinating mechanisms for disaster risk management

Guarantee the availability of resources for DRM activities through a special fund

Contd...

- **Minimize disruption of economic activity and damage to environment**
- **Mainstream and integrate disaster risk reduction into sectoral development programmes including resource allocation in order to achieve sustainable development**
- **Ensure use of appropriate procedures and guidelines for and responding to disasters and threats of disasters in Sri Lanka in order to save lives and property**
- **Adhere to higher standards than before in medium and long-term reconstruction and rehabilitation initiatives**
- **Ensure introduction of planning guidelines and building codes for construction in disaster prone areas**
- **Promote community based disaster management and micro insurance to improve the resilience of the vulnerable communities**

INTERNATIONAL DECADE FOR NATURAL DISASTER REDUCTION (IDNDR)

**In 1987 UN General Assembly declared 1990 as the “International
Decade for Natural Disaster Reduction” (IDNDR)**

Establish special UN office in Geneva to coordinate IDNDR

**To promote internationally coordinated to reduce disaster impacts
in developing countries.**

**1994 – World conference for NDR in Yokohama & developed
Yokohama strategy.**

2005-2015- HYGO FRAMEWORK IN ACTION- HFA

2015-2030 – SENDAI FRAMEWORK FOR DRR



Devolved Disaster Management Framework



DISASTER MANAGEMENT CYCLE

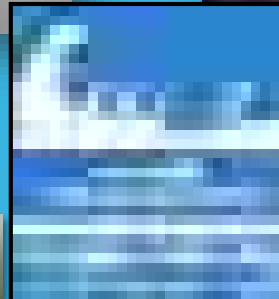


PRE DISASTER

PREPADNESS

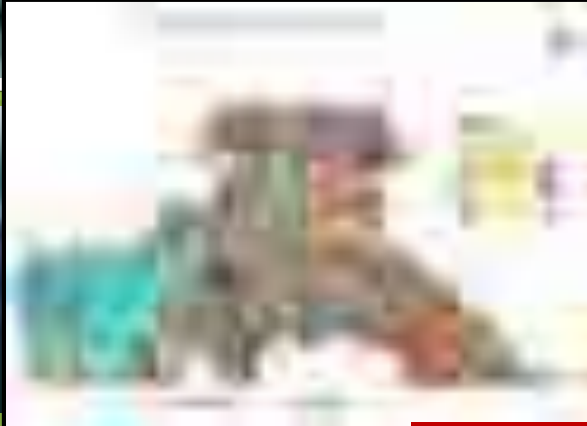
FIRST AID / BOAT HANDELING

EXERCISE / DRILLS

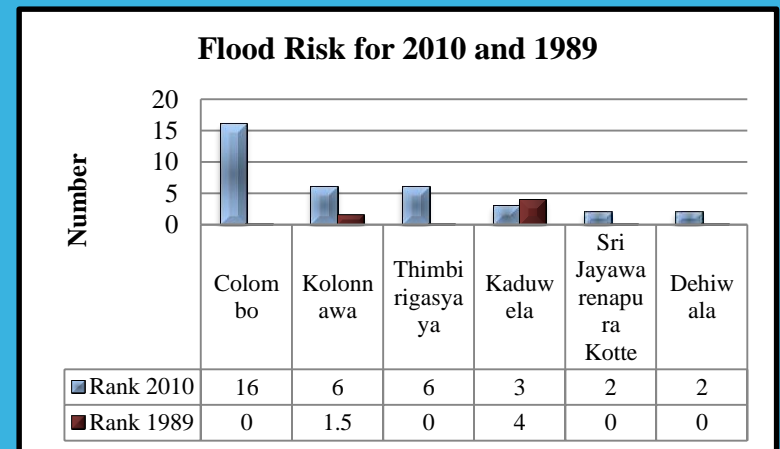
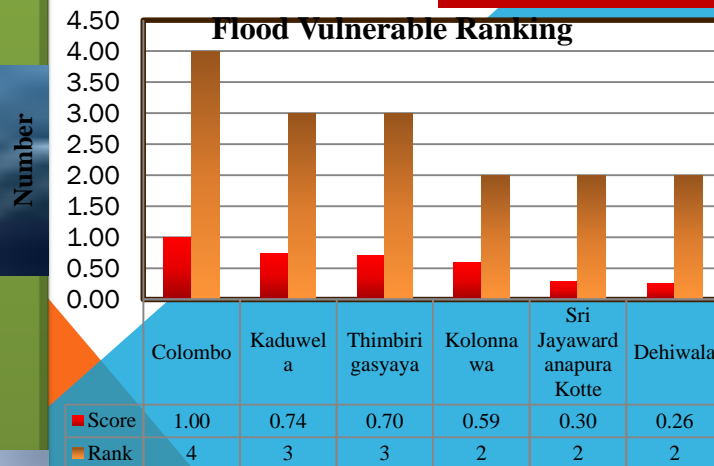


PRE DISASTER

RISK ASSESSMENT



URBAN FLOOD COLOMBO



PREPAREDNESS PLANNING

- ❖ Preparation of National Disaster Management Plan.
- ❖ Preparation of guidelines, tools, and other guidance for preparedness planning works
- ❖ District, Divisional and GN level DM plan



PARTICIPATORY HAZARD MAPPING TO IDENTIFY SAFE ROUTES AND SAFE AREAS

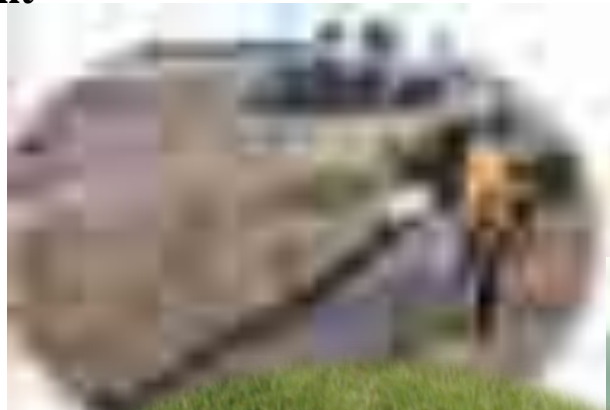
Community hazard mapping

Identifying vulnerable areas, local level early warning capabilities, evacuation paths, and safe places



RISK MITIGATION, RESEARCH AND DEVELOPMENT

- ❖ Development of maps on vulnerability, exposure and risk for all kind of disasters
- ❖ Long-term disaster risk minimizing project
- ❖ Data and information system
- ❖ Post disaster assessment



TRAINING AND AWARENESS

Promote and increase public awareness on Disaster Management (DM) and Disaster Risk Reduction (DRR) among school children, academic institutes, government officials, general public, NGOs & INGOs

Coordinating and conducting community level training programmes on First Aid, Life Saving, Search and Rescue, Swimming, Leadership training, Outward Bound Training, Camp Management etc

TRAINING AND AWARENESS

- ❖ Disaster Management Training program
- ❖ Curriculum development for school, universities and high education
- ❖ Awareness program for vulnerable community and other groups .



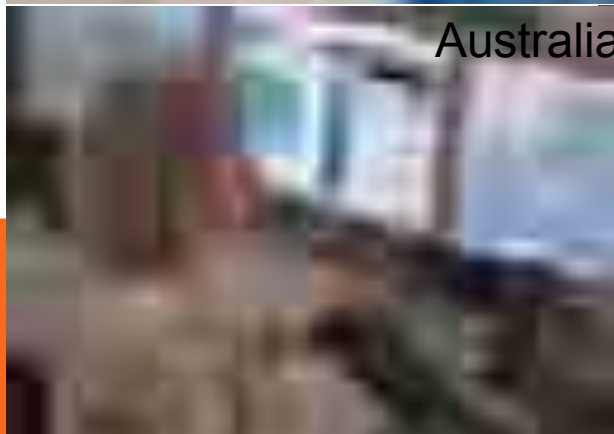
SCHOOL AWARENESS



Early Warning



Global community (Scientists, Warning Centre Operators, Disaster Managers, Policy Makers, Locals) linked by common goal, web technology to create tsunami-resistant communities with access to timely warnings



Australia



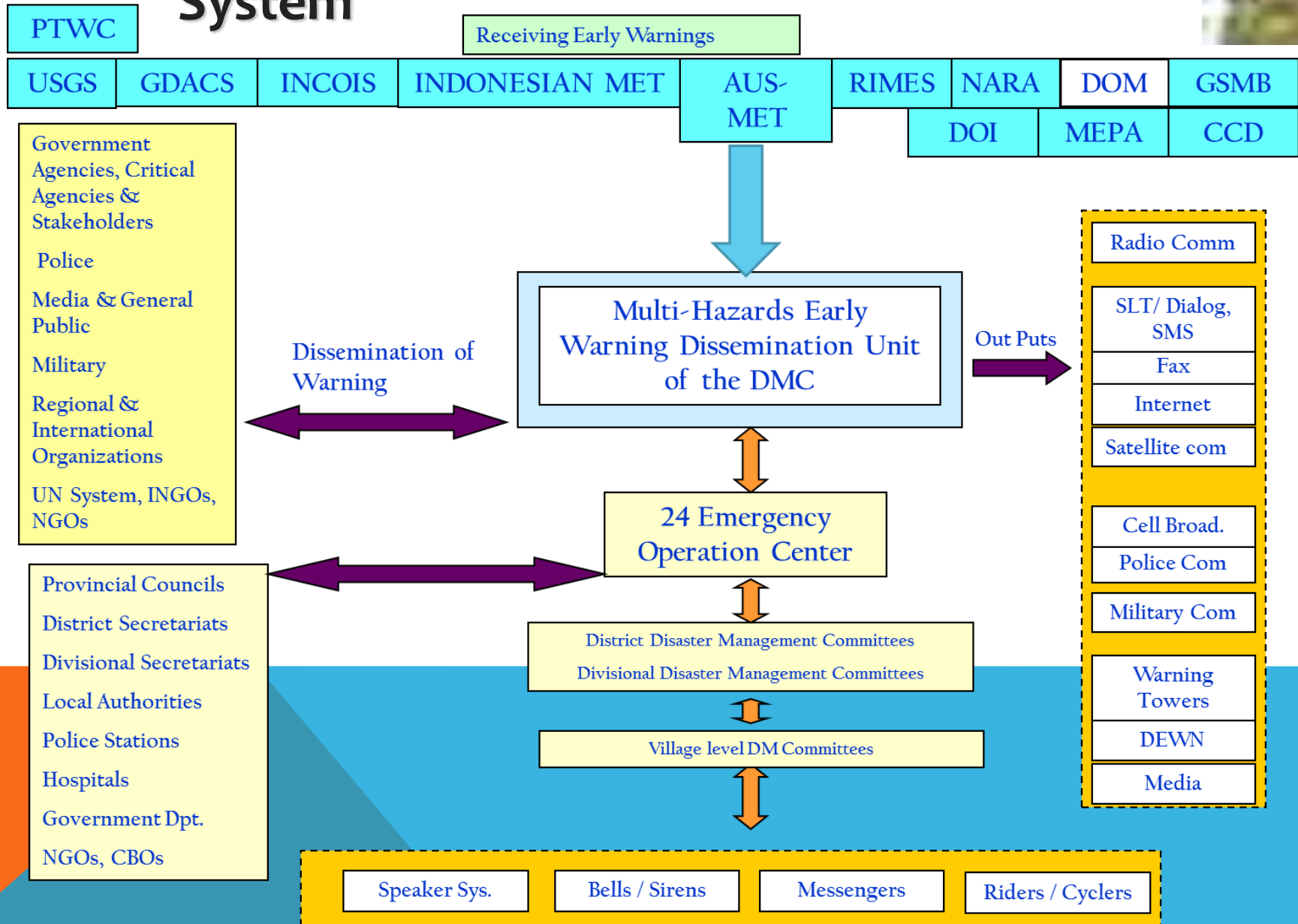
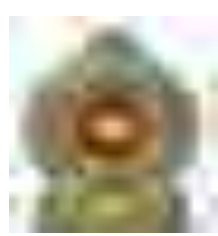
India,



Indonesia

PTWS and JMA provided Interim Advisory Service from 2005-2013, until IOTWS in full operational service from March 31, 2013

Multi-Hazard Early Warning Dissemination System

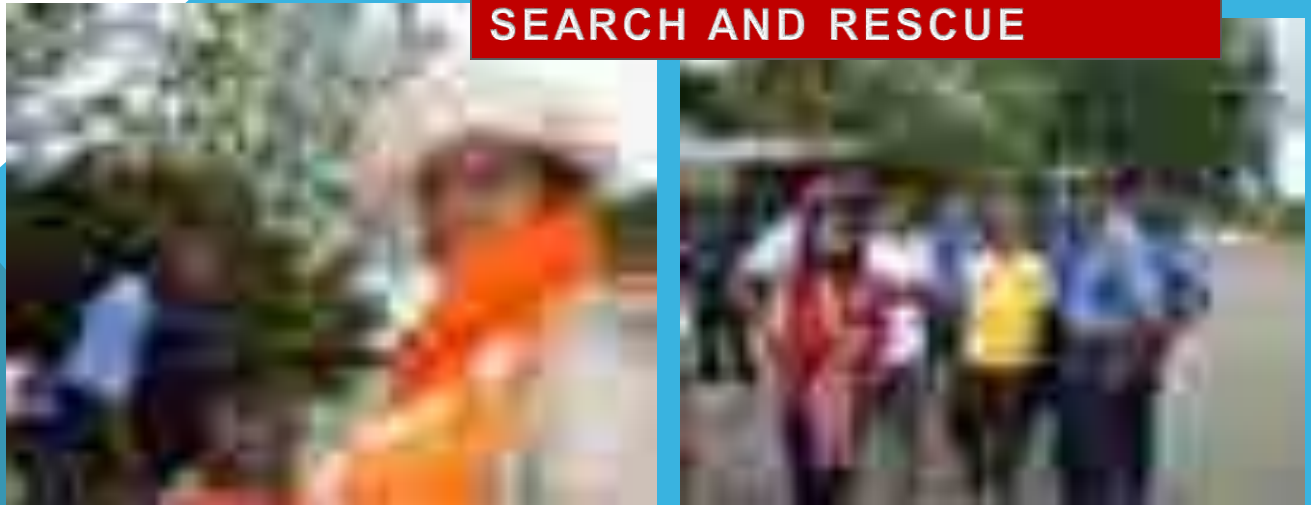


DURING DISASTER

RESERVIORS PROTECTION

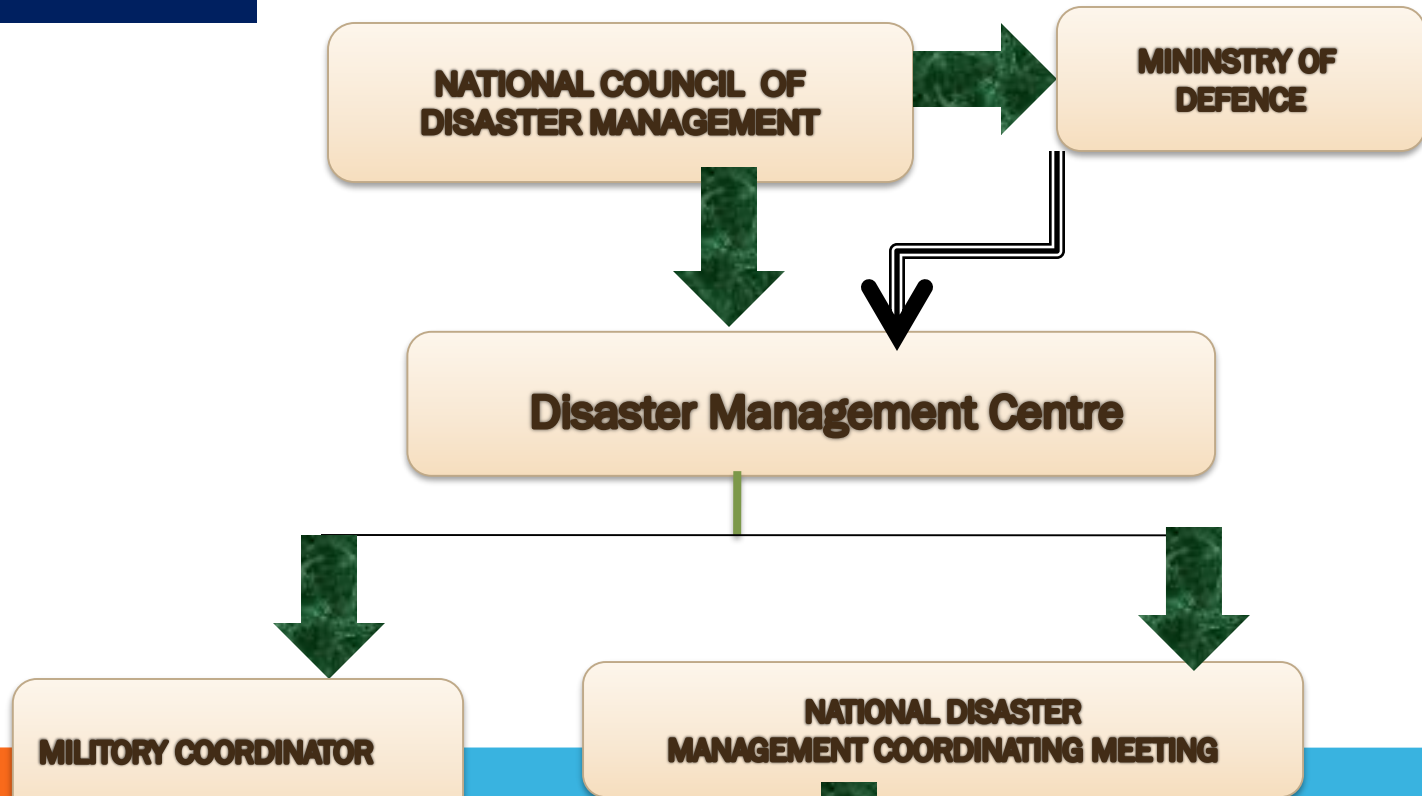


SEARCH AND RESCUE



The Military and Disaster Management: SRI LANKA

NATIONAL LEVEL



DISTRICT Level

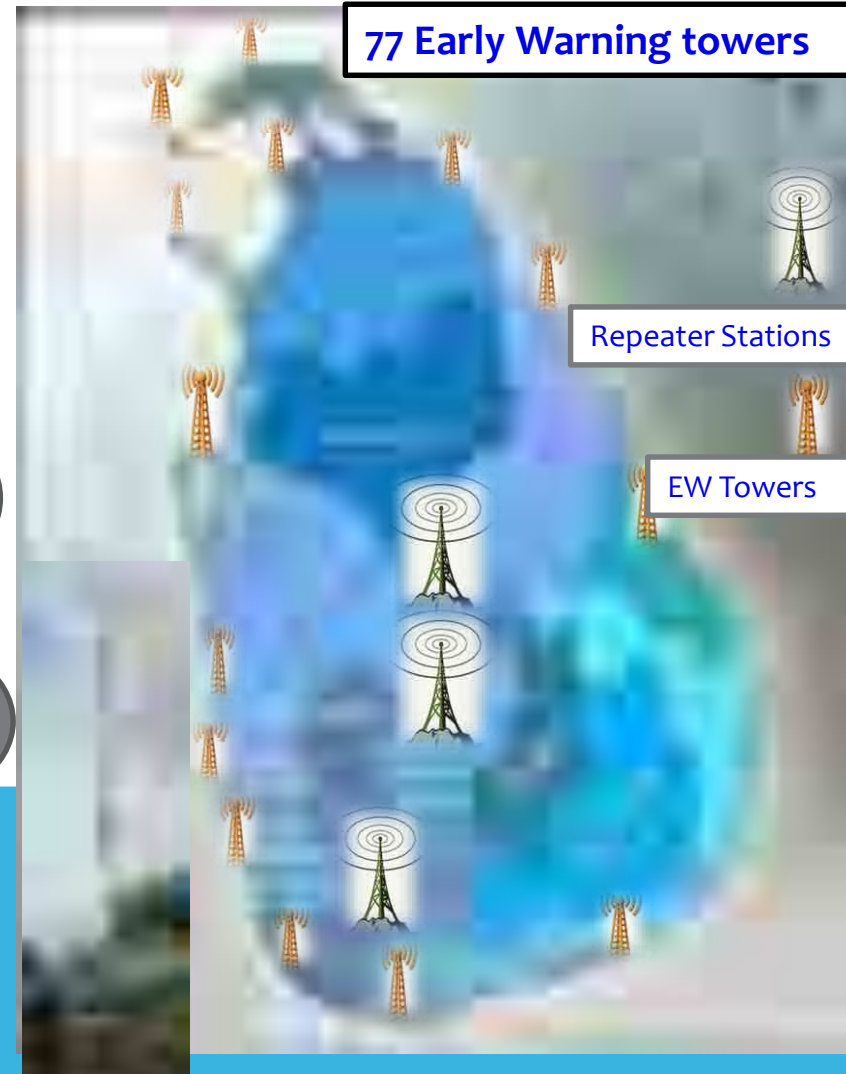
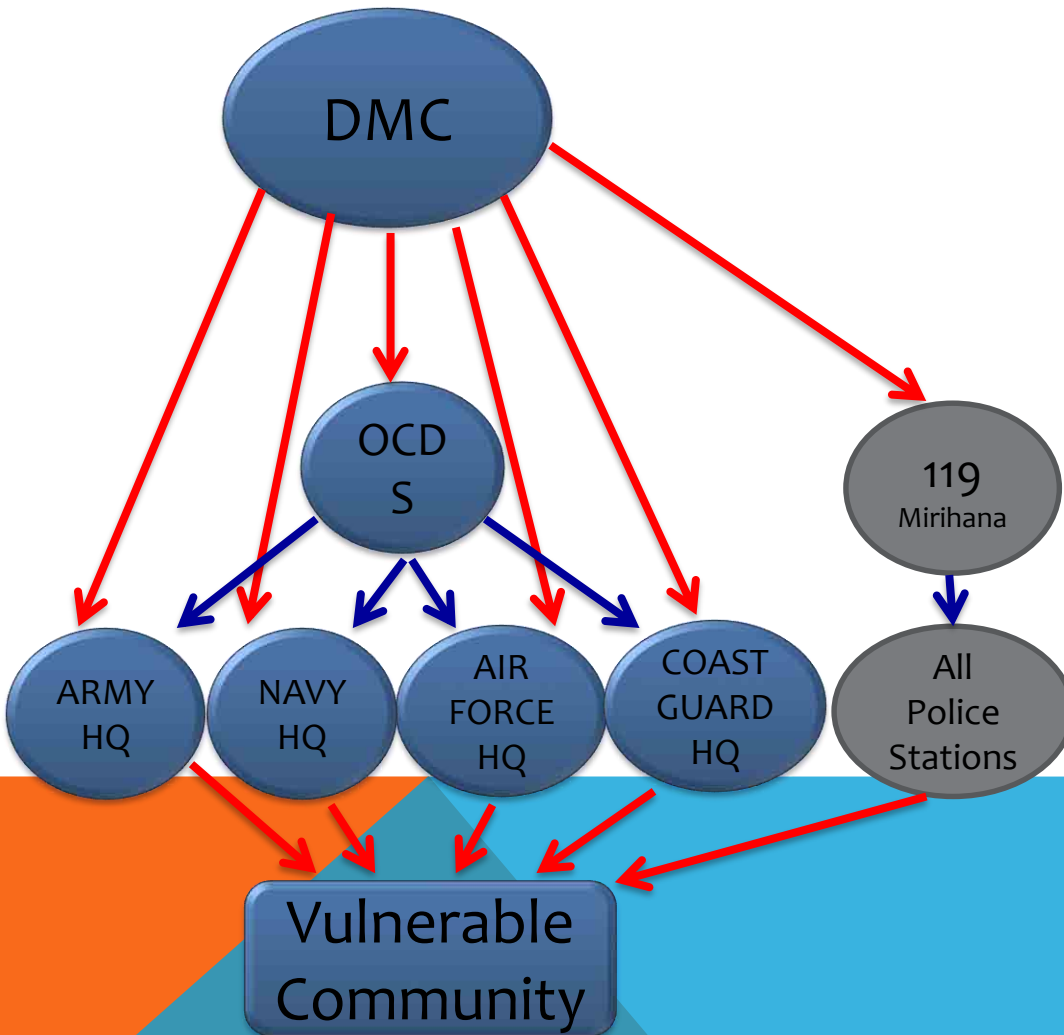


117

Call Center

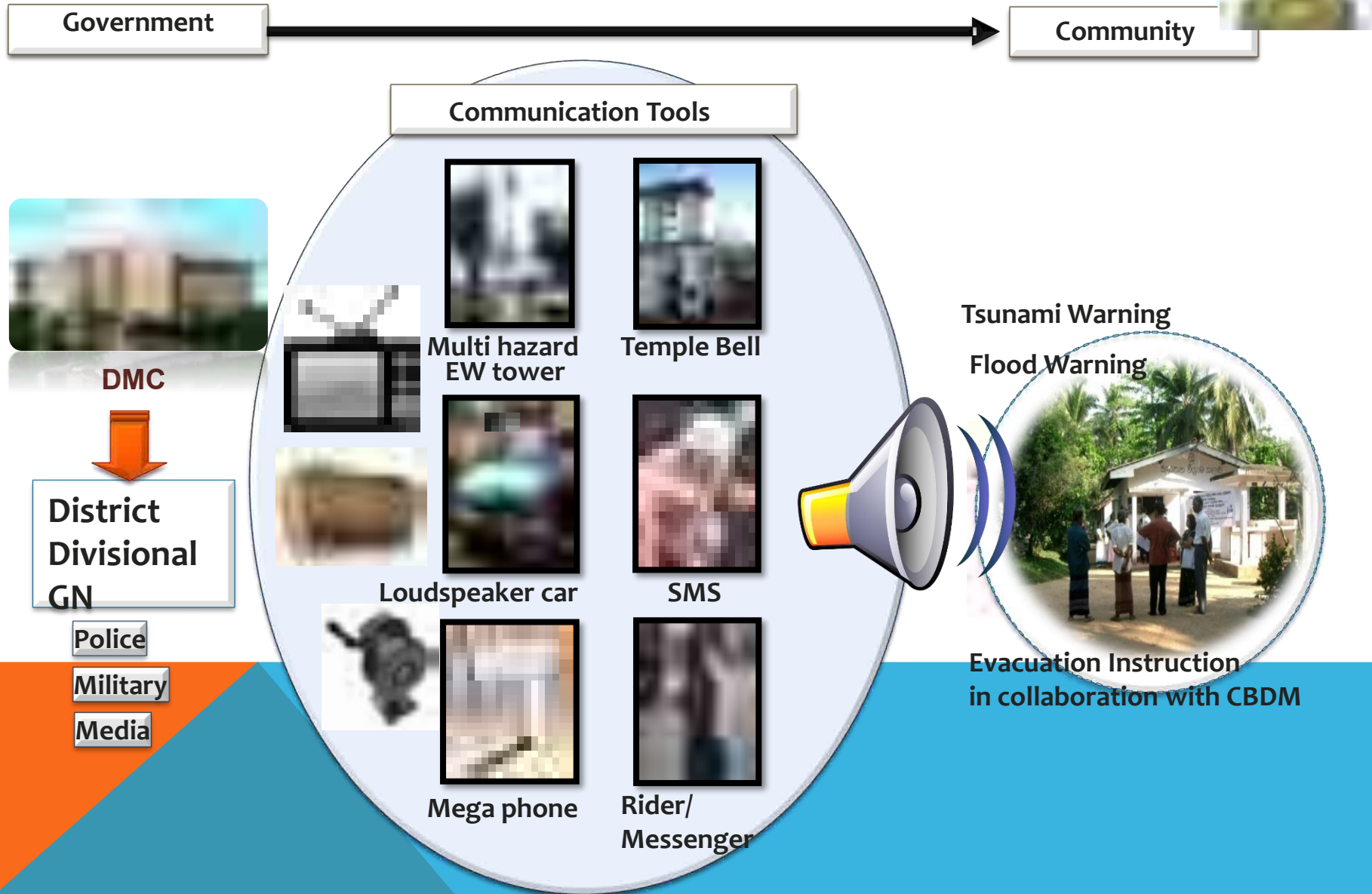


EW dissemination systems

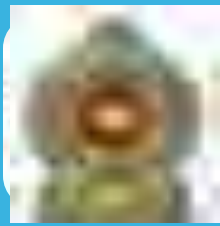


Use of Police & military Communication during disaster Warning and Evacuation

“Last mile” Dissemination



EW through media



TV channels

- ITN
 - RUPAVAHINI
 - SIRASA TV
 - DERANA TV
 - SHAKTHI TV
 - SWARNAVAHINI
 - SIYATHA TV
- NEWS WEB SITES
SATELLITE TV

PEO TV NEWS BAR



RADIO channels

- SLBC
- LAKHADA FM
- SIRASA FM
- DERANA FM
- SRI FM
- SIYATHA FM
- KIRULA FM
- LAK FM
- RANGIRI DAMBULU FM

NEWS ALERTS

- JNW NEWS ALERTS
- DERANA ALERTS
- LIVE @ 8 ALERTS

Emergency Response



MILITARY CONTRIBUTION

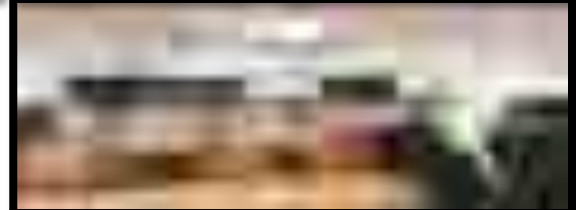
Supported since beginning for all search /rescue operations,
camp management and relief operations

- Army
 - Navy
 - Ari force
 - Police
- Around 1000 troops were
deployed

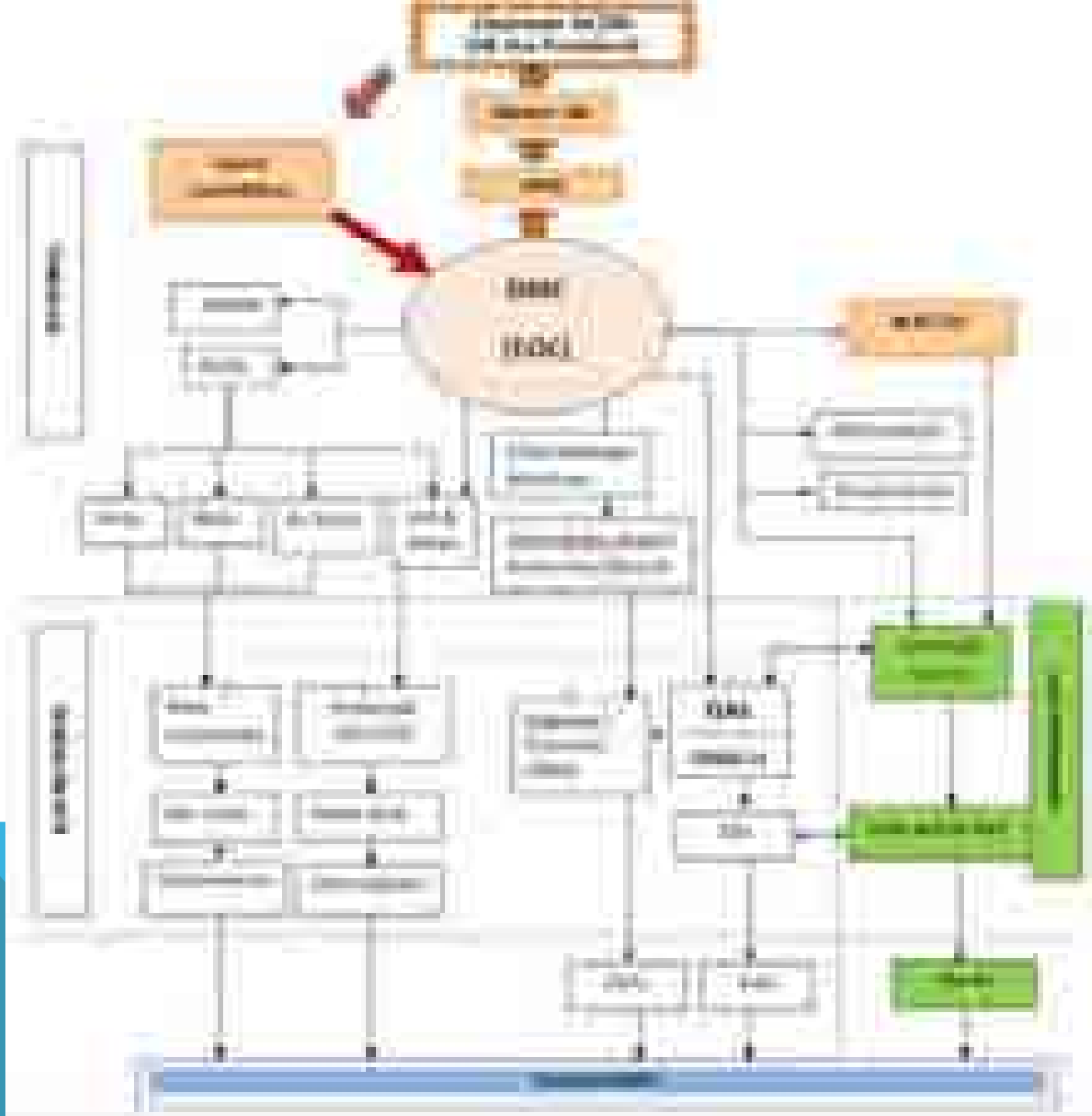
National EOC



**24 x 7 National Emergency
Operations Centre**

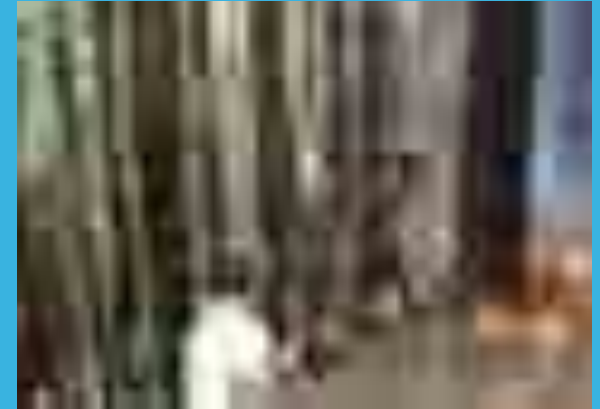


OVERALL
EMERGENCY
RESPONSE
COORDINATI
ON
FLOWCHART



Emergency Response

SAR Teams Develop by Army



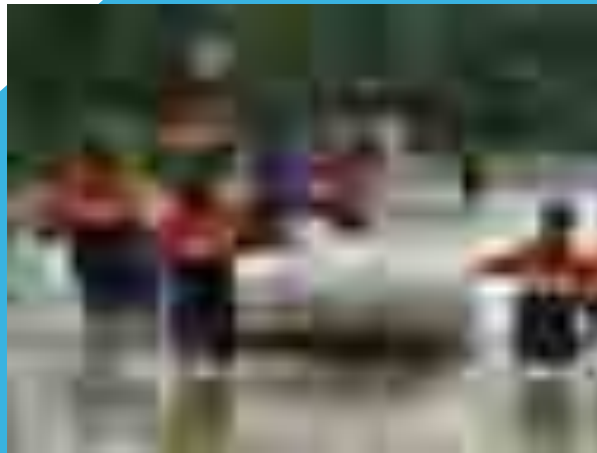
Equipment allocated to the SAR teams by the DMC

Air Rescue missions by Sri Lanka Air force



More than 150 fire incidents - 2014

4RS Teams by NAVY



June-2014 (people rescued in Kalutara and Rathnapura Districts)
May-2016 (people rescued in Colombo district)
Feb-2017 (people rescued in Kalutara boat wreckage)

Humanitarian response by volunteers & NGO's



Maha Willachchiya



Ipalogama





Padaviya



Divers in Nachchaduwa Tank



Madawachchiya



Horrowpathana



Stockpiling of Machinery and equipment for emergency response



Armed forces/Police :

Public Addressing Systems, HF/VHF Sets,
Ropes,
S&R Boats, Safety Jackets, Search Lights,
sirens,
Megaphones

District & Divisional Secretariats:

Water bowsers, Rescue boats, Mega Phones,
Chainsaws, VHF/HF sets, Canopies, Sirens

Local Authorities:

Backhoe loaders, Water bowsers, Gully Emptier,
Water pumps, Generators, Sirens

Communities:

Megaphones, Fire extinguishers, Safety Jackets, PA
Systems, Kitchen Utensils, First aids kits, Rain
Gauges

Schools:

First aids kits, Rain Gauges



Simulation Exercises

24 x 7 National Emergency Operation Centre

Purpose of conducting Exercises

- Check the preparedness level at each level
- Check the efficiency of early warning dissemination mechanisms
- To Assess the responding **capacities** of community
- To get familiarize with SOPs on Early Warning Dissemination

Exercises

• Information Transferring Exercises

National level up to community level through district, division, GN

• Information transferring and Evacuation Exercise

• Community evacuation exercise

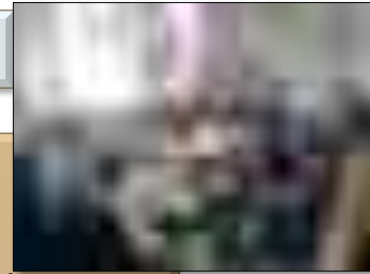
One village, several villages, all vulnerable GN divisions,

• Table Top Exercises

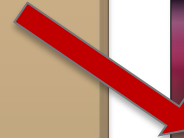
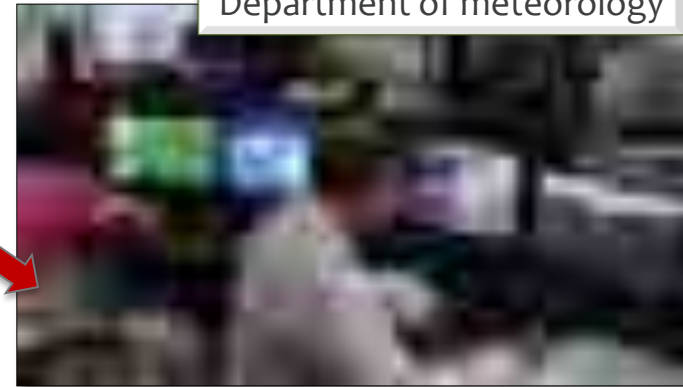
With other Institutions,

• Role Play Exercises

For institutions



Department of meteorology



Killinochchi District

National DRM Plan



Objective: National DRM Plan

Establishment of mechanisms/systems for Disaster Risk Management (DRM) in Sri Lanka as a multi-sectoral, inter-ministerial, and inter-agency activity, by identifying and assessing the capacities of existing agencies for improving their capacities and mandates as necessary to implement the identified tasks, using methodologies and concepts already developed and field tested.

**Sri Lanka has ratified the UN Agreement on
“Sendai Framework for Disaster Risk Reduction:
2015-2030”, in 2015**

2.1. Consideration of priority Action for DRR given under Sendai Framework

There are Sendai Framework Guiding Principles (13)

- Priority 1: **Understanding disaster risk**
- Priority 2: **Strengthening disaster risk governance** to manage disaster risk
- Priority 3: Investing in disaster risk reduction for resilience
- Priority 4: Enhancing disaster preparedness for effective response and to **“Build Back Better”** in Recovery, Rehabilitation and Reconstruction

LESSON LEARNT/ BEST PRACTICES

INCIDENT	LESSON
2004 TSUNAMI	2005 No 13 Disaster Management Act/ Establish – Disaster Management Centre/ Ministry of Disaster Management / 24*7 Emergency Operation Unit
2010 FLASH FLOOD	Implement Land Reclamation Act/ Flood Control and City Development Plan
2013 High Wind	Strengthen Early Warning / Improve Fisheries Awareness/ Distribute Life Jackets
2013/2014 Drought	Improvement of Drought Control Method
2014 Landslide	Awareness of State sector/ Landslide Safety Location Identification/ Safety Reconstruction Method / Building Codes
2016 Flood/ Landslide	Insurance System

By people
awareness
and vigilance...



THANK YOU

Let's integrate disaster risk and
let's work on village level for
country