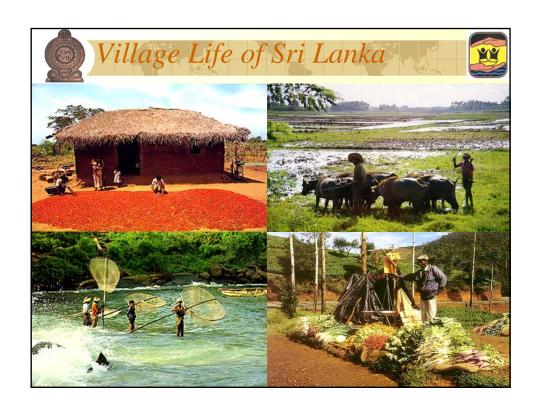
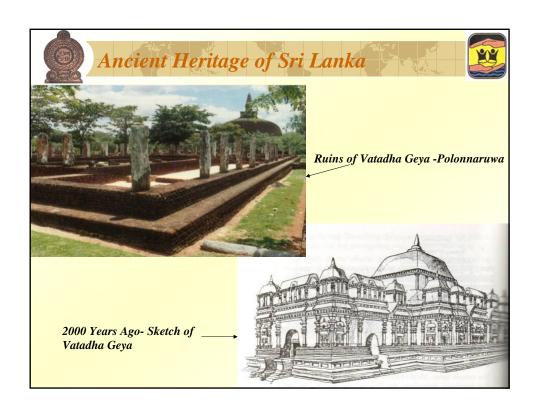






Ba	C	k ground Information	
Head of State	:	His Excellency the President Hon. Mahinda Rajapaksha	
Head of Parliament	:	Prime Minister Ratnasiri Wickramanayaka	
Capital	:	Colombo	
Population	:	19.9 Millions(2005)	
Language	:	Singhalese, Tamil	
Religion	:	Buddhism	
Member of	:	: ADB, C, CCC, CP, ESCAP, FAO, G-24, G-77, IAEA, IBRD, ICAO ICC, ICFTU, ICRM, IDA, IFAD, IFC, IFRCS, IHO, ILO, IMF, IMInmarsat, Intelsat, Interpol, IOC, IOM, ISO, ITU, NAM, OAS (observer), OPCW, PCA, SAARC, UN, UNCTAD, UNESCO, UNIUNTAET, UNU, UPU, WCL, WFTU, WHO, WIPO, WMO, WTOO WTOO	
Currency	:	Rupees (Rs.100 = 1.00 US\$)	
GNP	:	Rs.1,737bn US\$ 18 bn(2004) at current market prices	
Major Industries	dustries : Textiles and Garments ,Gem Cutting, Food Processing, Handy craft.		







## **Demographics**



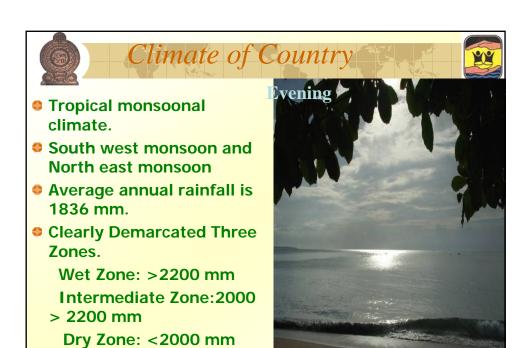


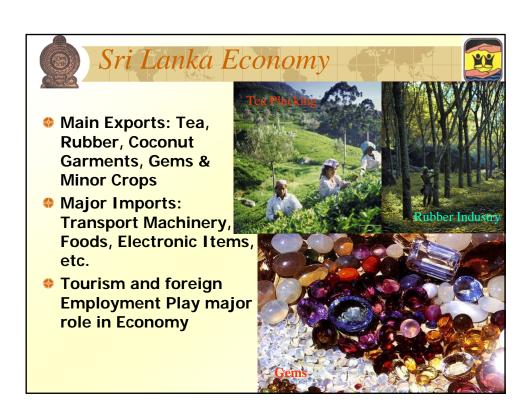
average temperature 25-

28 Degrees C.

- Population of 19.8 million,
- 75% are Singhalese,
- Female 51.8%, Male 48.2% Rural Population 78.9%
- Average annual population growth rate of 1.3%
- Life Expectancy- 72.8
- Force Participation Rate (percent) -48.6%
- Un Employment 8.6%

**Department of Statistics and Census** 





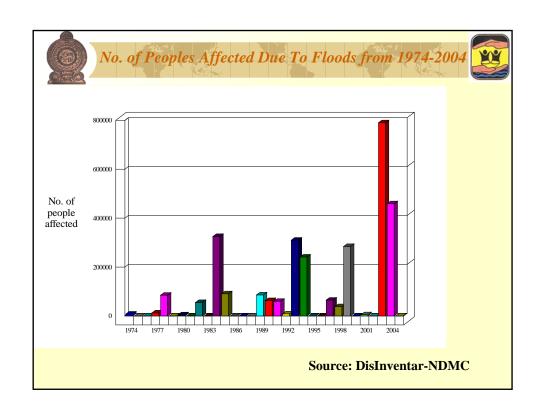


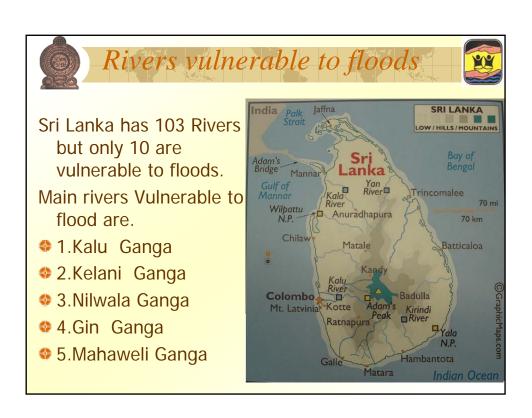


- \$8% Growth in GDP by 2010
- An Increase of in domestic savings from 17.3 percentile to 32% of GDP by 2010.
- An Increase of investment from 28% of GDP to 35% by 2010.
- Output Property And Increase of exports 39.1 % to 50.8 of GDP by 2010.





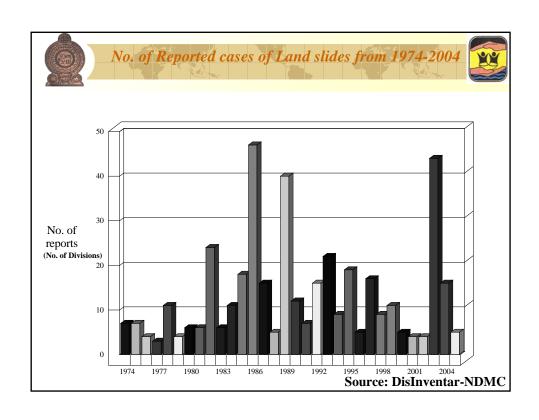


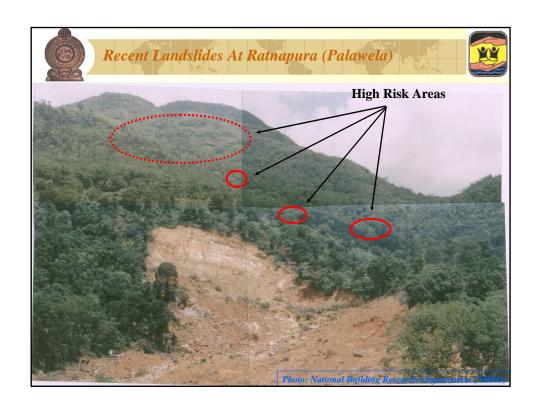


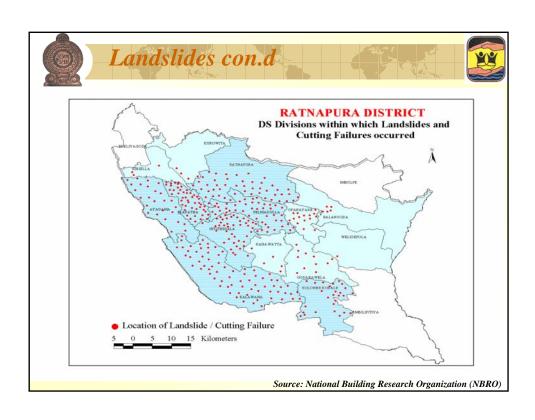




- Heavy rains, geological changes and indiscriminate clearance of steep slopes increased the occurrences of landslides in Central and South Western regions of the Island.
- Out of 25 Districts of Sri Lanka 9 Districts are vulnerable to Land slides, (Specially Ratnapura, Kegalle, and Matara)
- The landslides of January 1986, May and June 1989 and May 2003 surpassed all previous landslides in recent memory,





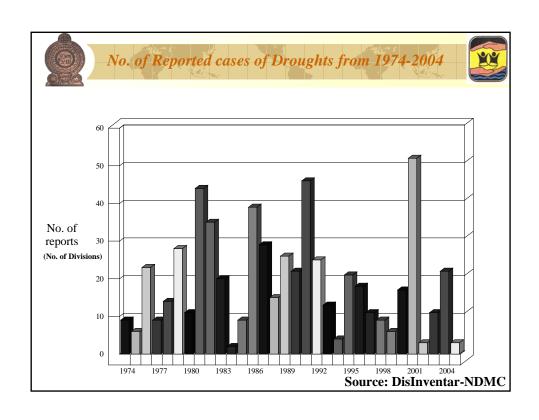




## Droughts of Sri Lanka

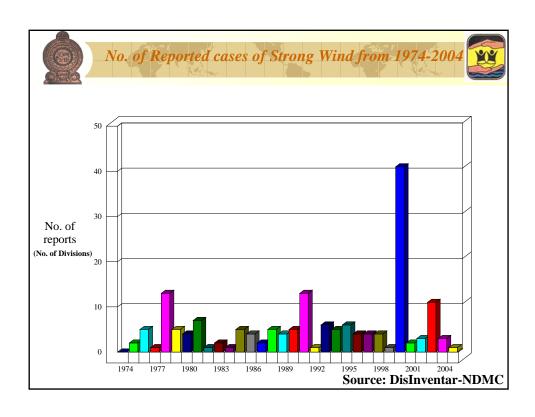


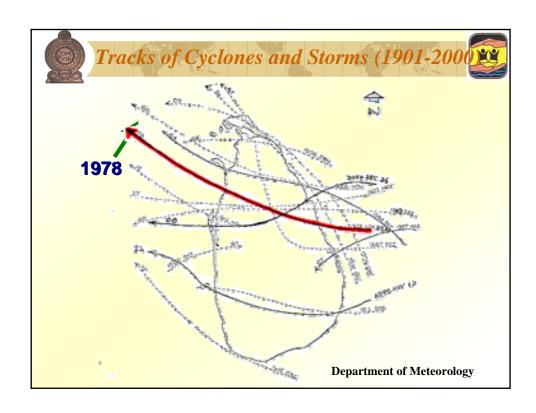
- 2/3 rd of the country is under the Dry Zone, so that vulnerable to Droughts as
- Local Significant Drought: Every Year
- Regional Significant Drought: Every 2 to 3 years.
- National level Drought: Every 10 to 15 years.





- A large number of cyclonic disturbances had either formed or passed close to Sri Lanka, only 35 cyclonic storms/cyclone had crossed the coasts during the period 1881 - 2001
- 26 cyclonic storms/cyclones had crossed the coast in November and December. Therefore in Sri Lanka November/December is recorded as the cyclone season.



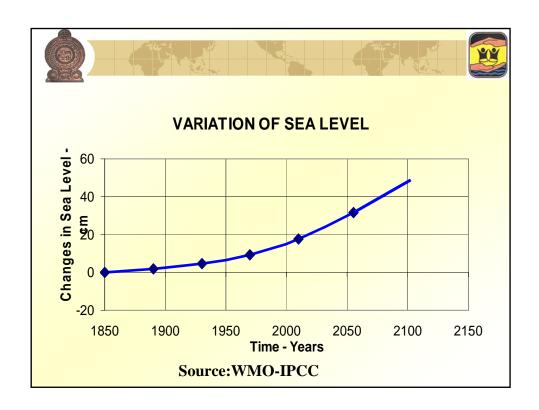


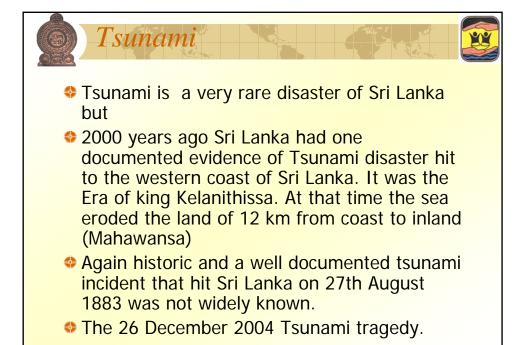


## Sea Erosion of Sri Lanka



- Length 1620 km including shoreline bays
- Coastal erosion along 340 km of Coastline The most critically affected areas are those between Kalpitiya in the Northwest and Matara in the South.
- Coastal zone supports
  - 34% of Population and 24% of land area of the country
- 3 Major commercial ports located
  - -Colombo
  - -Galle
  - Trincomalee

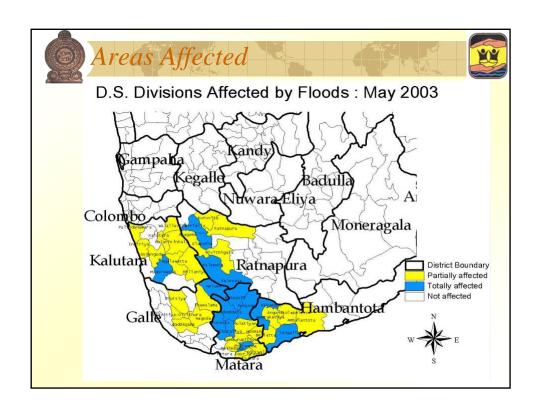








Floo	od 2003	Distri	cts at a	gland	ce
As at 06th Oc	tober, 2003				
	Affected			Damaged	
District	Families	Deaths	Missing	Houses	
				Fully	<b>Partly</b>
Hambantota	2241	21		585	649
Kalutara	24555	11		944	2330
Galle	28173	16		1533	4037
Matara	47642	64	17	2145	7201
Ratnapura	34478	122		3668	9531
Nuwara Eliya	132	1		360	255
<b>Grand Total</b>	137221	235	17	9235	24003
	1	National Disa	ster Manage	ment centre.	(NDMC)



	Plan of Action	on	
n),			
	Activity	Ву	Between
1	Identification of affected families	District Secretary	01 - 10 July
2	Identification of Lands	District Secretary	01 - 10 July
3	Recommendation of NBRO/Irrigation	NBRO / Irrigation	03 - 19 July
4	Awareness Creation Programme	National Disaster Mng. Centre,	
		of the Ministry of Social Welfare	
		University of Moratuwa	
		Sri Lanka Ins. Of Architecture	10 - 20 July
5	Finalization of plans types & cost of	Sri Lanka Ins. Of Architecture	
	Houses	Sri Lanka Ins. Of Town Planning	
		NHDA	19 - 24 July
6	Construction of Houses	Dept. of Social Services	
		of the Ministry of Social Welfare	20 July to
		District Secretary	15 October
		NHDA	





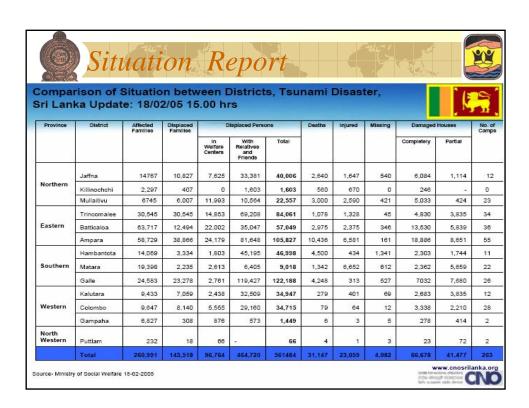
#### Tsunami 26th December 2004



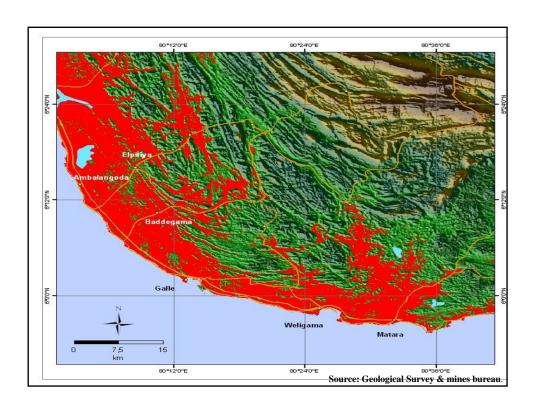
December 26,2004 Massive earthquakes of magnitudes ranging from 8.6 to 9 that have occurred in Sumatra (Indonesia) and Nicobar region (India) have caused tsunamis (tidal waves).

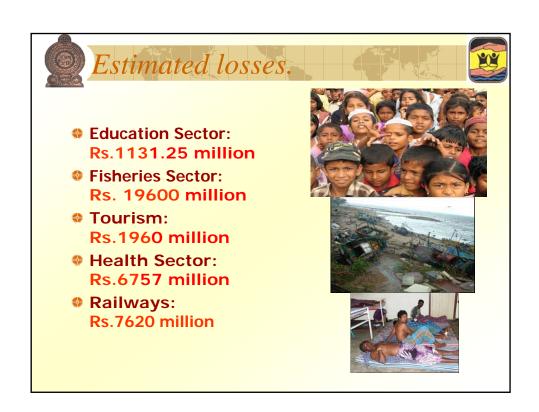
- These waves hit the Eastern, Northern, Southern and Western coast of Sri Lanka on 26<sup>th</sup> December 2004.
- This has caused extensive damage to life and property in those areas.

National Disaster Management Center



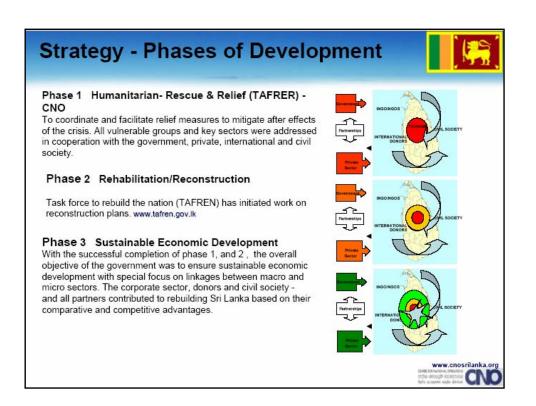








#### Government Response to the Disaster Government of Sri Lanka established three main task forces On the 28th December 2004; 1. Task Force for Rescue and Relief TAFRER Task force for Rebuild the Nation Task force for Logistic Law and Order TAFREN TAFLOL Operational Structure TAFRER - Emergency Rescue and Relief පාකික මෙහෙලුම් මධ්පත්ථානය Орби усоцька ирди фини TAFLOL **TAFREN** Logistics, Rebuild the Law and Nation Order





# Current Disaster Management Situation of Sri Lanka



By The extra ordinary gazette notification on 8<sup>th</sup> Dec. 2005 His Excellency the President Mahinda Rajapaksha formed Two Ministries to Disaster Management.

- ➤ Ministry Of Disaster Management.
- ➤ Ministry Of Disaster Relief Services.



## Agencies and Functions allocated to Ministry of Disaster Management



**Agency:** National Disaster Management Council.

#### **Functions:**

- Coordinating and management of relief activities pertaining to natural and man made disasters.
- Coordinating awareness programmes on natural disasters.
- Early warning systems.
- Administration of Sri Lanka Disaster Management act No. 13 of 2005.



# Agencies and Functions allocated to Ministry of Disaster Relief services.



#### **Agencies:**

- National Disaster Management Centre.
- Emergency Relief unit.

#### **Functions:**

- Formulation and Implementation of projects and programmes to provide emergency relief to the affected parties in disaster situations.
- Implementation of rescue operations under natural and man made Disasters.
- Coordination with relevant authorities to provide relief facilities to the affected parties.
- Formulation and Implementation of programmes to restore normal life and livelihood of people affected by natural and man made disasters.



# Early warning Systems of Sri Lanka



### Responsible organizations



- Meteorological Department has a responsibility of early warning for Tsunami, Flood, Cyclones and other geologically induced Disasters with collaboration of Irrigation Department, Geological survey Department, NDMC and other relevant Organizations.
- Around Clock Warning centre functioning at Meteorological Department.
- Yet we have not properly organized and developed early warning systems for all natural Disasters.



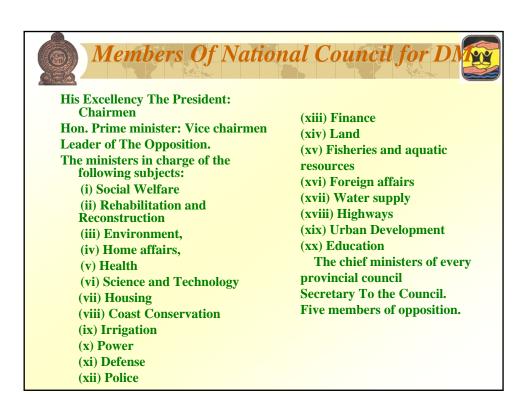
# Proposed Disaster Management System For Sri Lanka

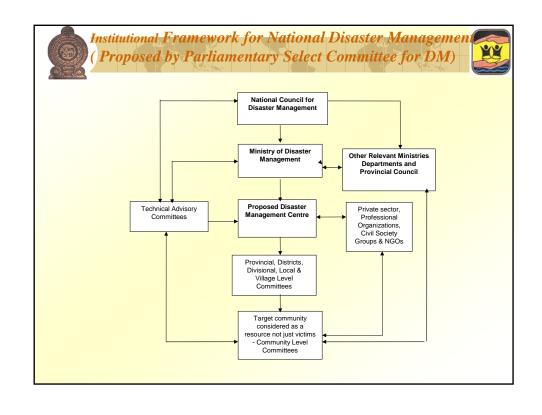


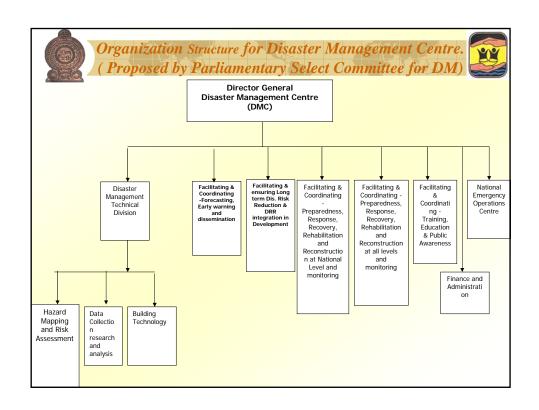
## Legal System:

- Sri Lanka Disaster management act No. 13. (Already Passed by parliament on 13<sup>th</sup> may 2005)
- According to act formed, National council for Disaster Management. (NCDM)

Disaster Management Centre (DMC)
Technical Advisory committees.









## Main Functions of DMC



- Assisting to Council to Prepare & Implement: National Disaster Management Plan (NDMP) Emergency Operation Plan
- **Ensure**:

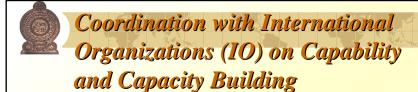
Preparation of Disaster Management Plans by ministries, departments and public corporations

- Facilitate and support: local and community self reliance
- prepare and implement programmes:
  For preparedness, mitigation, prevention, relief, rehabilitation and reconstruction





Counter measures and
International commitment
for Disaster Reduction In
Sri Lanka





Asian Disaster Reduction Center (ADRC)

Asian Disaster Preparedness Center (ADPC)



- WFP, UNDP, UNICEF, WHO, WMO and FAO
- European Commission Humanitarian Office (ECHO)
- Office for the Coordination of Humanitarian Affairs (OCHA)
- International Federation of Red Cross and Red Crescent Societies (IFRC)



#### Counter Measures-Flood Mitigation



- Flood protection Bunds for Kelani Ganga. 1935-1945
- Gin Ganga Flood Protection Scheme-1975 (Funded by China)
- Nilwala Flood Protection scheme-1993
- Kelani Ganga Flood protection Study & Flood forecasting System -2000(DANIDA Project)





- Land slide Hazard Mapping (LHMP) Project GOSL/NBRO/UNCHS
- Transition Recovery Support to Flood and Landslides Disasters in Sri Lanka 2003. (NDMC & UNDP)
- Drought Mitigation: Rain Water Harvesting Project in Monaragala and Hambantota Districts (NDMC & ITDG).
- Disaster Risk Information Management DisInventar system (NDMC & UNDP).
- Sri Lanka Urban Multi-hazard Disaster Mitigation Project (SLUMDMP) - CHPB & Asian Urban Disaster Mitigation Programme (AUDMP).



## Current needs



#### Disaster Management and Preparedness

- Establishment of multidisciplinary national disaster operation center. Including training of core staff, equipment to improve communication and information management.
- Geographic Information System to determine priority areas for disaster mitigation and preparedness and create hazard maps upgrading disaster preparedness at village, divisional, district and national levels.

National Disaster Management Center





- Development of Disaster Information Management System.
- Stock filing and providing equipments
- Establishment of a National Emergency Response capacity.
- Enhancement of Training and educating.
- Strengthening international and regional cooperation.
- Establishment of an Early Warning System.

National Disaster Management Center



# Objective of the Visiting Research and Expected Outputs



- Research on the facts leading to Natural disasters with special reference to Tsunami, earthquakes, floods, droughts, landslides etc. and studying the counter measures taken in Japan and studying how it could be applied to Sri Lanka.
- The awareness programmes on Disaster preparedness, emergency drills etc. to general public, school children, Community leaders and develop systems to improve the local system in comparison with Japan.
- The systems to be adapted for prevention, preparedness arresting emergency hazards giving with special attention to early warning systems for Natural disasters, and study planning of education, and training on Disaster reduction.
- Studying how the International Cooperation works disaster prevention, mitigation, and preparedness at central and local administrative levels.

