



Rapid Assessment for Resilient Recovery (RARR)

**Best Practices and Existing Institutional Arrangements
for Rapid Damage Assessment
Sri Lanka**

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National Building Research Organization

CONTENT

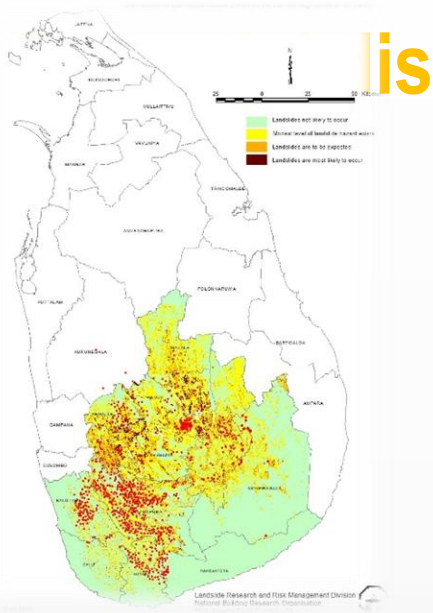
- Introduction
- Institutional Arrangement for Disaster Management in Sri Lanka
- Recent Disaster Background
- Rapid Need Assessments in Sri Lanka

INTRODUCTION

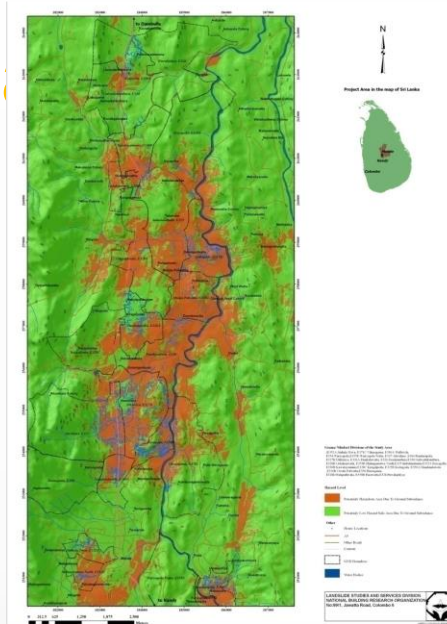
- Sri Lanka is a tropical country located in Indian Ocean.
- There are 02 main monsoon Seasons and 02 Inter Monsoon seasons.
- Flood, Droughts, Landslides, Lightning and high wind are main natural disasters in Sri Lanka.
- In 2004 December 26 Tsunami had devastated two thirds of the coastal belt of Sri Lanka.

INTRODUCTION

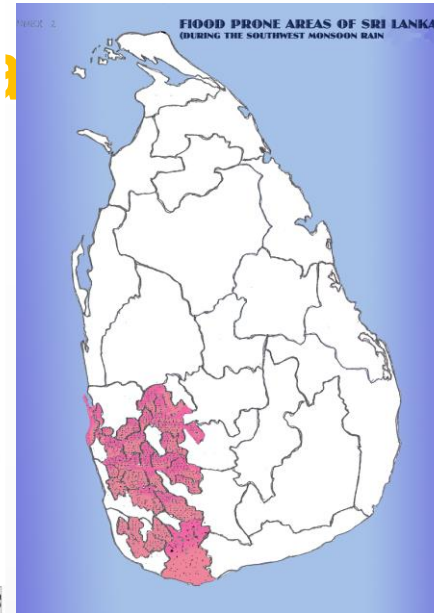
Landslide Prone areas



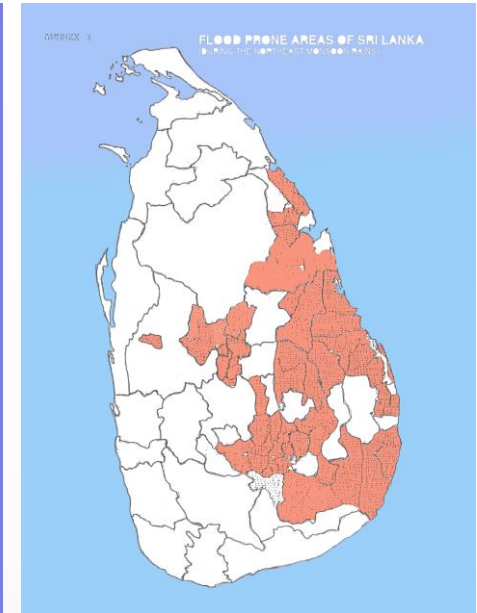
Land subsidence areas



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



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

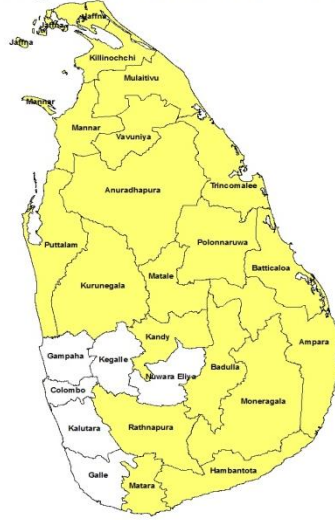


Problematic Soils -

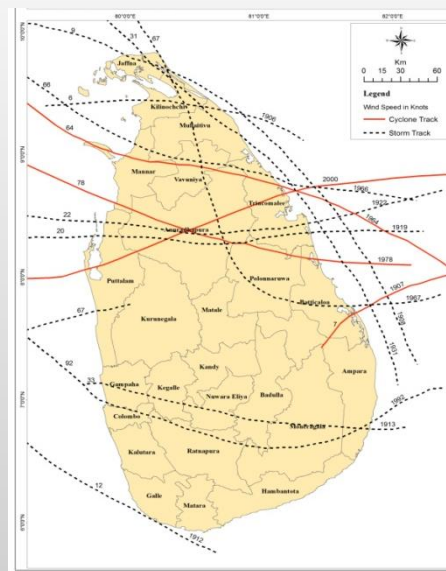


Drought Prone areas

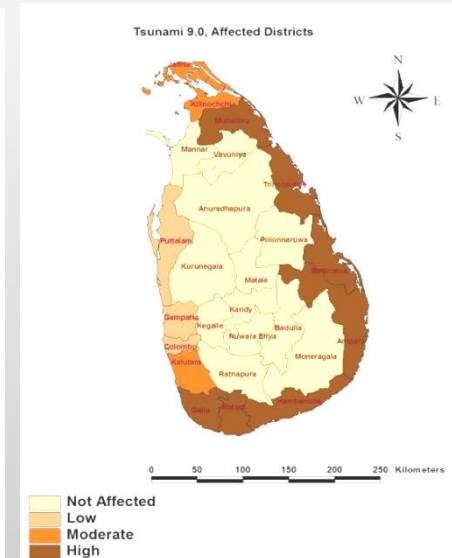
Drought Affected Districts in Sri Lanka



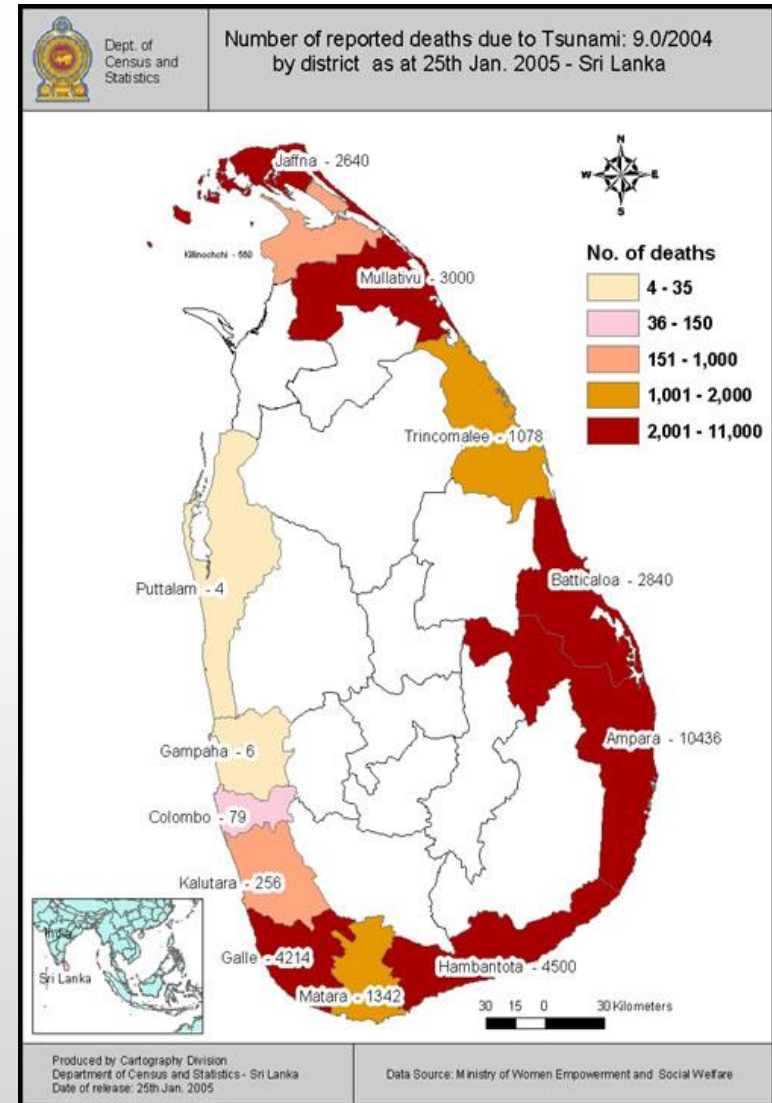
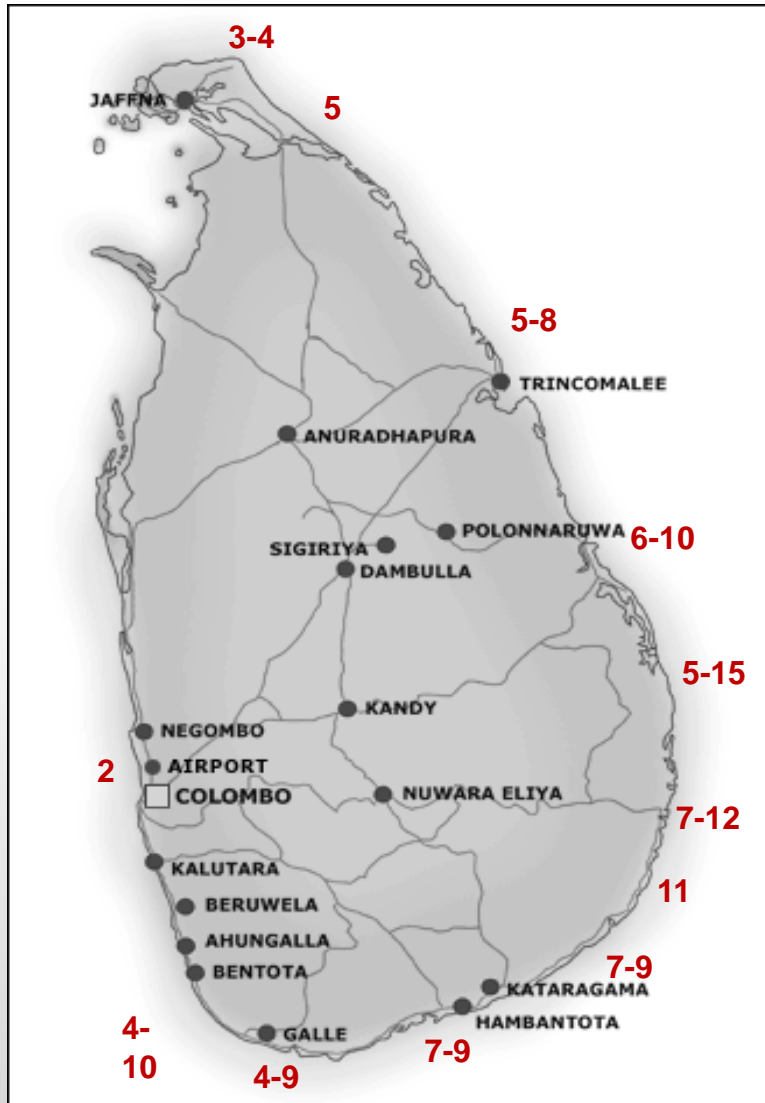
Tropical Cyclones



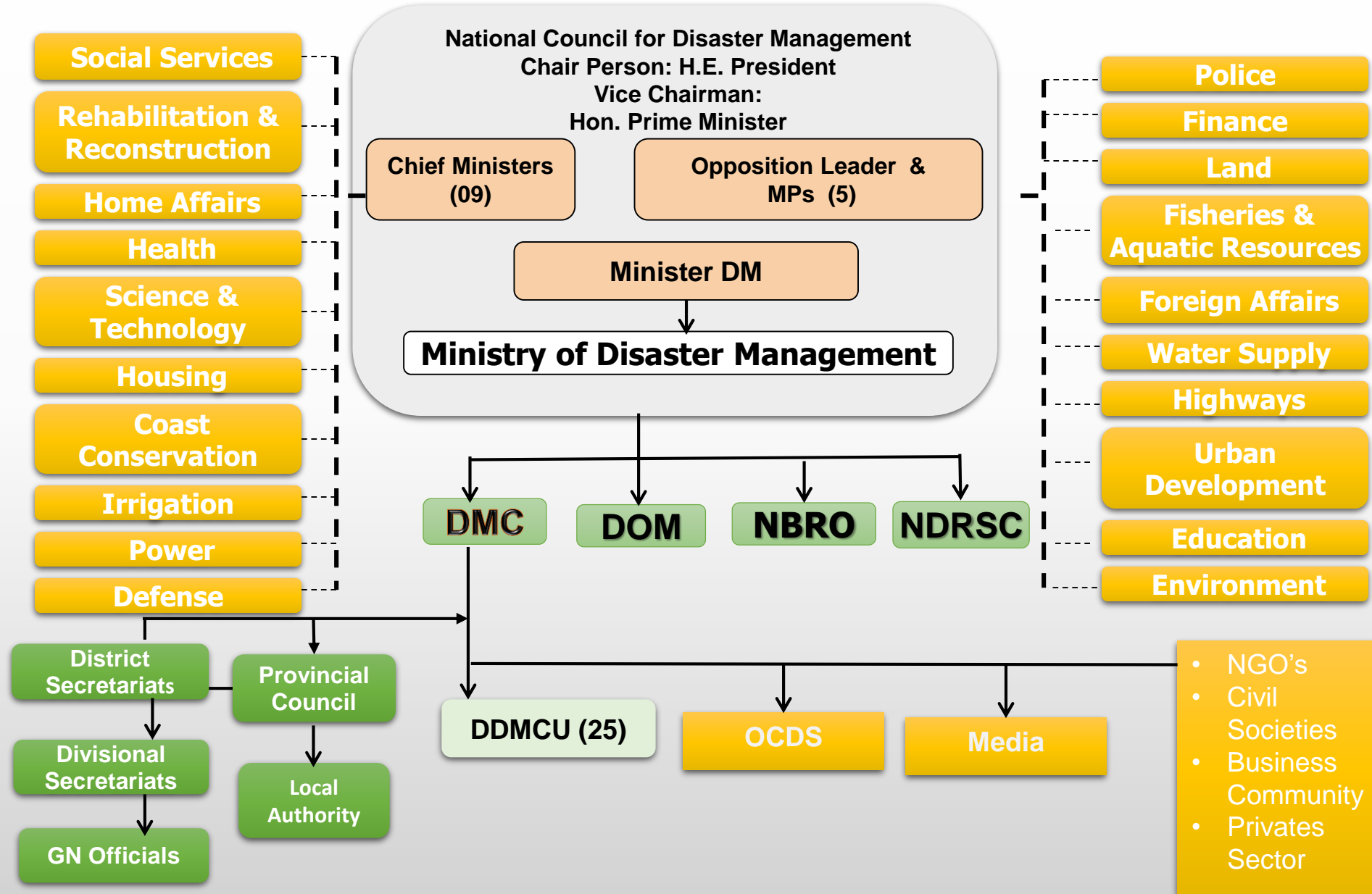
Tsunami Affected Coastal Areas



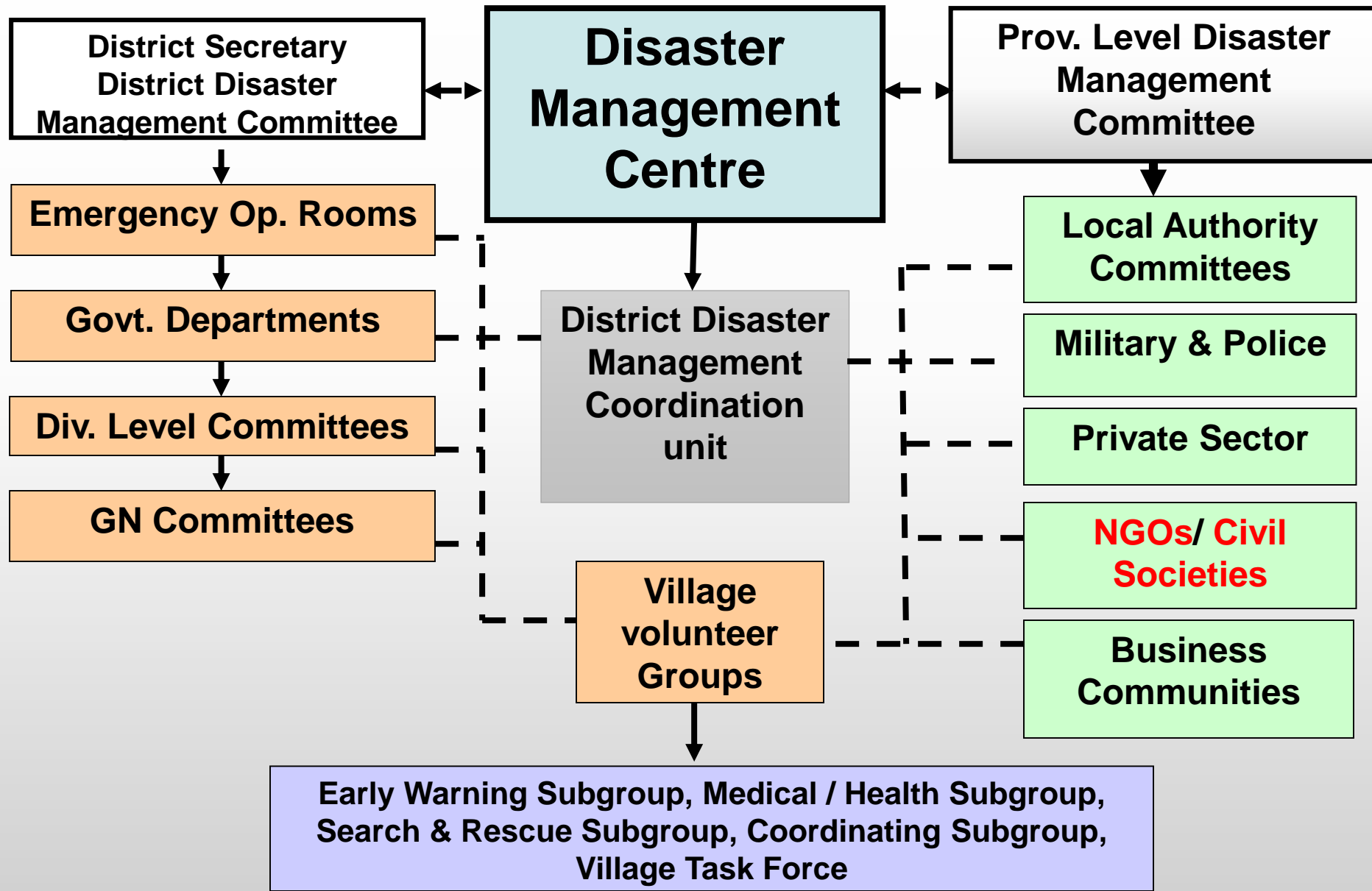
TSUNAMI IMPACT



LEGAL FRAMEWORK AND COORDINATION MECHANISUM OF DISASTER MANAGEMENT IN SRI LAKA



Disaster Risk Management Mechanism at Sub-national Level



ADMINISTRATION LEVELS OF THE COUNTRY

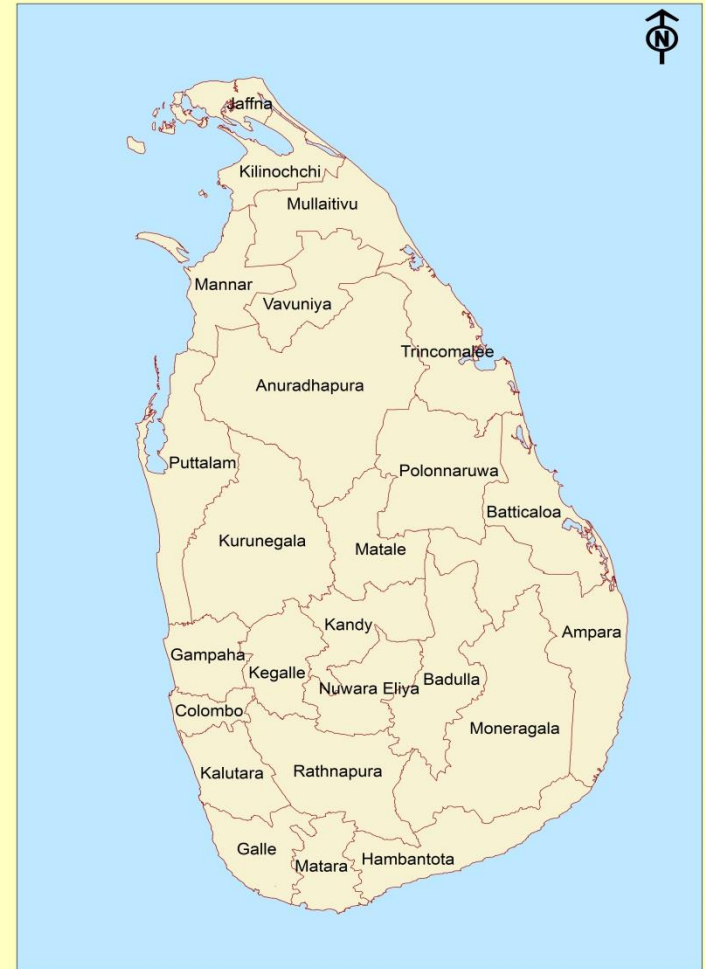
PROVINCE LEVEL – 9 PROVIENCIES

PROVINCE OF SRI LANKA



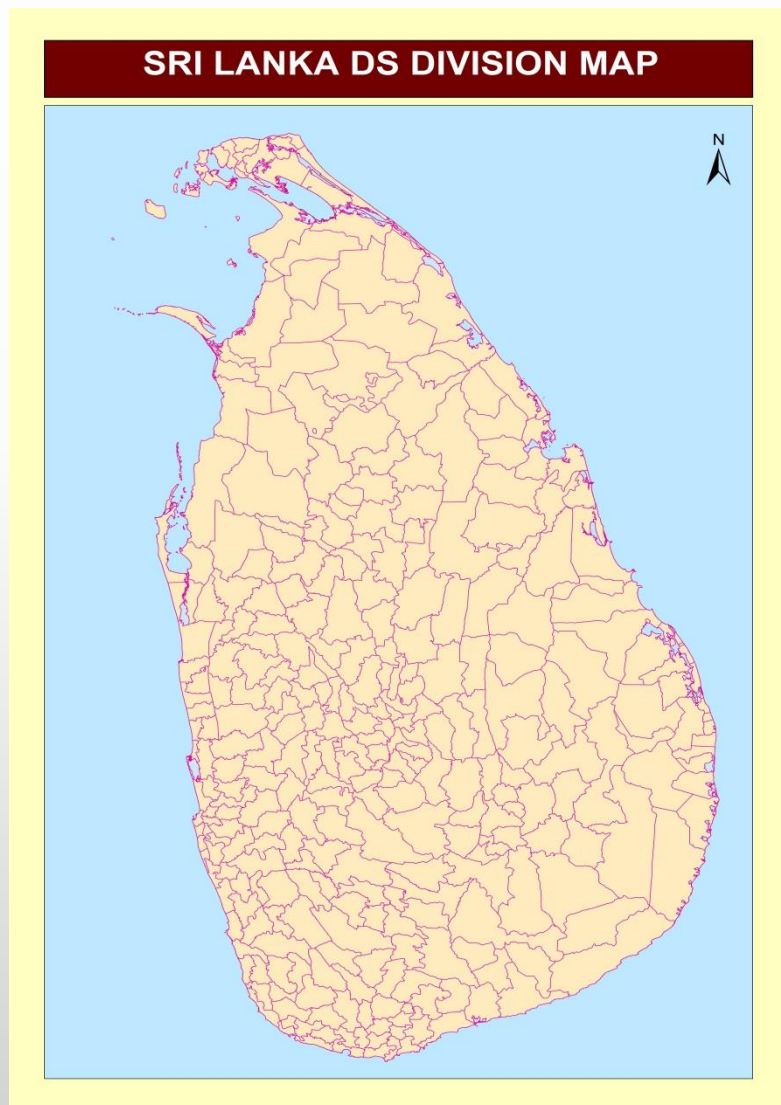
DISTRICT LEVEL – 25 DISTRICTS

DISTRICTS OF SRI LANKA

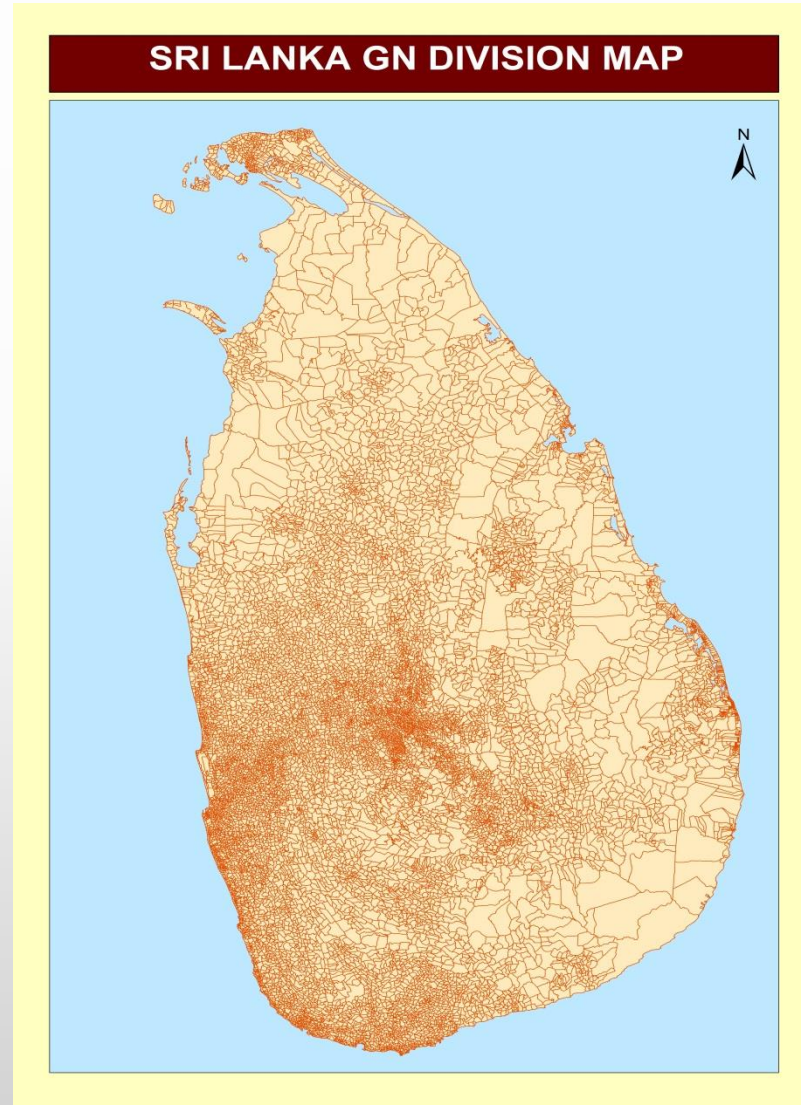


ADMINISTRATION LEVELS OF THE COUNTRY

D.S.DIVISION LEVEL – 331 DSD'S



G.N.DIVISION LEVEL – 14021 GNS



POLITICAL STRUCTURE

- S.L. is a republic and a unitary state governed by presidential system.
- Legislative Parliamentary system
- 225 parliamentary seats (196 elected by voters and 29 by National List)
- 9 provincial councils (by Governor and Chief minister)
- 335 Local Authorities

Province	MC	UC	PS	Total
Central	4	6	33	43
Eastern	3	5	37	45
North Central	1	0	25	26
North Western	1	3	29	33
Northern	1	5	28	34
Sabaragamuwa	1	3	25	29
Southern	3	4	42	49
Uva	2	1	25	28
Western	7	14	27	48
Total	23	41	271	335

BEST PRACTICES

PDNA - 2016



PDNA - 2017



Sectors	Damages (LKR)	Losses (LKR)	Total Effect (LKR)	Total Effect (US\$)
Social Sectors	56,825,850,000	472,872,285	57,298,722,285	395,163,602
Housing, Land and Settlements	55,821,850,000	256,000,000	56,077,850,000	386,743,793
Health and Nutrition	478,500,000	118,682,285	597,182,285	4,118,499
Education	525,500,000	98,190,000	623,690,000	4,301,310
Productive Sectors	23,593,530,000	10,971,860,000	34,565,390,000	238,382,000
Food Security, Agriculture, Livestock, Fisheries	1,698,050,000	1,901,750,000	3,599,800,000	24,826,207
Industry and Commerce	21,895,480,000	9,070,110,000	30,965,590,000	213,555,793
Infrastructure Sectors	6,441,100,000	574,220,000	7,015,320,000	48,381,517
Irrigation	1,723,420,000	0	1,723,420,000	11,885,655
Water and Sanitation	366,620,000	76,520,000	443,140,000	3,056,138
Transport	4,143,400,000	43,500,000	4,186,900,000	28,875,172
Power Supply	207,660,000	454,200,000	661,860,000	4,564,552
Cross Cutting Issues	167,400,000	5,851,203,455	6,018,603,455	41,507,610
Environment	27,400,000	542,842,332	570,242,332	3,932,706
Disaster Risk Reduction	140,000,000	254,361,123	394,361,123	2,719,732
Employment & Livelihoods	0	5,054,000,000	5,054,000,000	34,855,172
Gender and Social Inclusion	0	0	0	0
Total	87,027,880,000	17,870,155,740	104,898,035,740	723,434,729
Total US\$ (1 US\$ = 145 LKR)	600,192,276	123,242,453	723,434,729	

Table 9. Floods and landslides 2016, total damages and losses. Sources: PDNA team.

Year 2016

The distribution of available damages and losses by district is given in Figure 3 below.

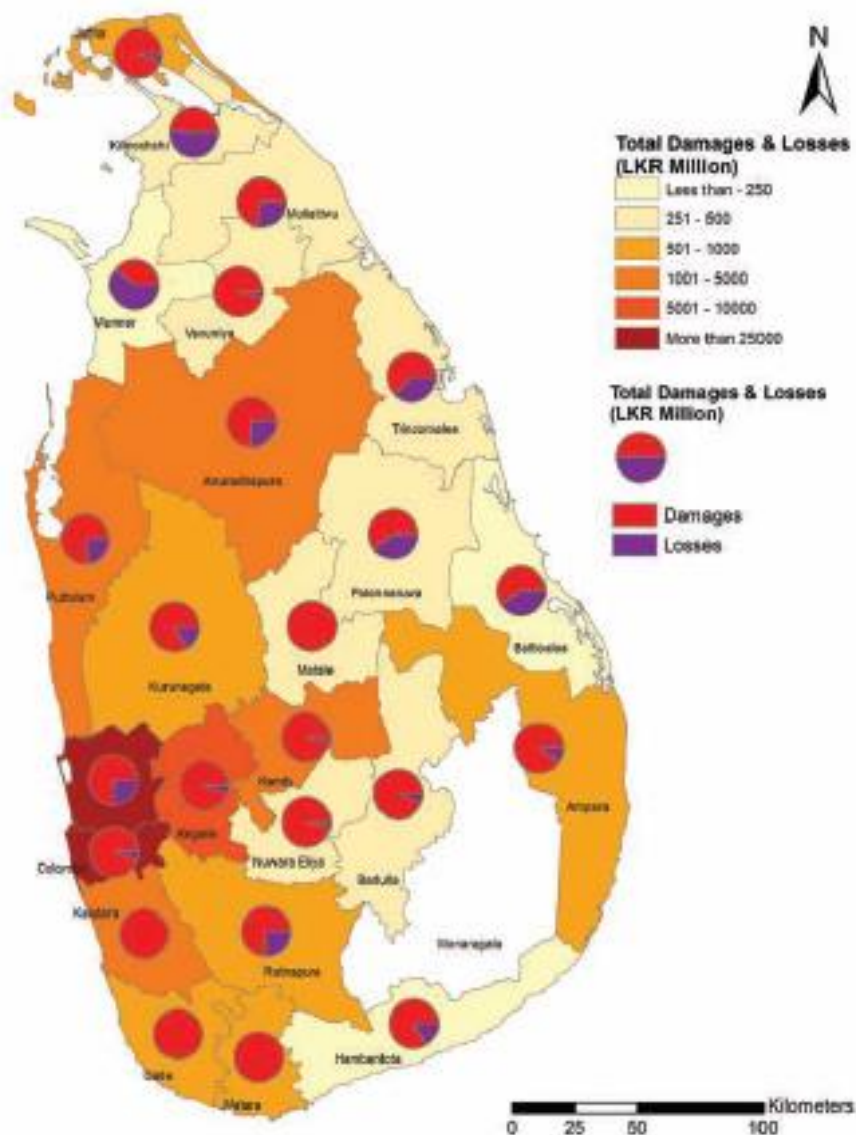


Figure 3. Available district-wise distribution of damages and losses. Source: PDNA team.

TABLE 5: FLOODS AND LANDSLIDES 2017, TOTAL DAMAGES AND LOSSES

Sectors	Damages LKR (Million)	Losses LKR (Million)	Total Effects LKR (Million)	Total Effects US\$ (Million)
Social Sector	30,408.31	2,406.96	32,815.27	218.77
Housing	29,047.01	1,992.53	31,039.54	206.93
Education	1,205.20	212.60	1,417.80	9.45
Health	156.10	201.83	357.93	2.38
Productive sector	12,945.42	4,725.19	17,670.61	117.8
Agriculture	10,292.95	2,401.1	12,694.05	84.63
Industry & commerce	2,652.47	2,324.09	4,976.56	33.17
Infrastructure sector	16,386.71	584.84	16,971.55	113.13
Irrigation	1,535.9	31.6	1,567.5	10.45
Water & sanitation	1,531.90	143.49	1,675.39	11.17
Transport	12,844.60	231.60	13,076.20	87.17
Power	474.31	178.15	652.46	4.34
Cross cutting issues		2,814.58	2,814.58	18.76
Disaster risk reduction		2,262.46	2,262.46	15.08
Environment		552.12	552.12	3.68
Total effect lkr	59,740.44	10,531.57	70,272.01	468.48

US\$ 1 = LKR 150

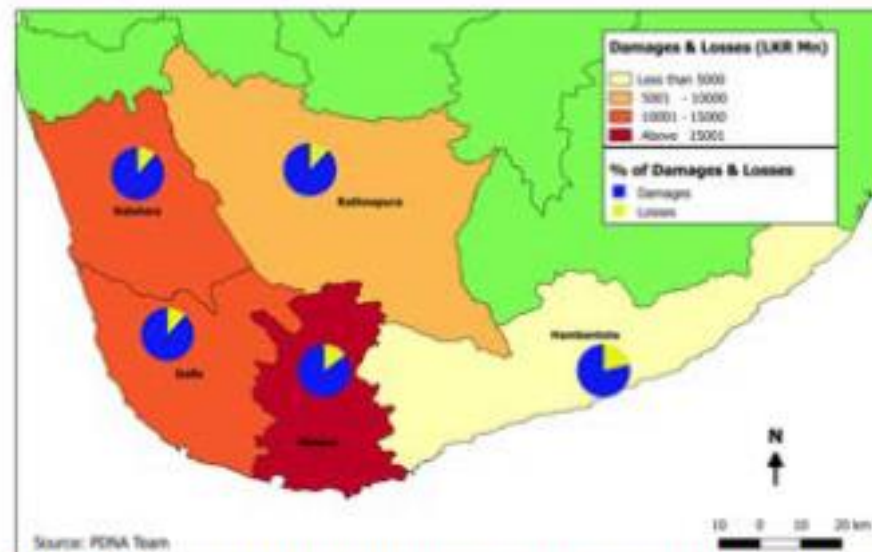
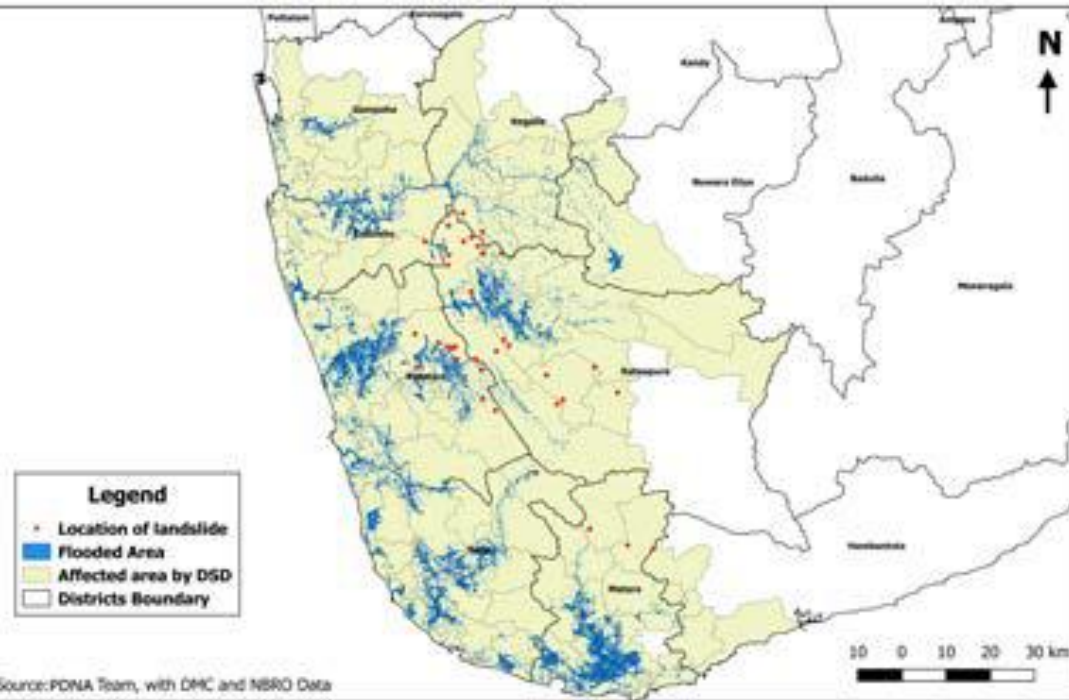


FIGURE 3: MAP OF DISTRIBUTION OF EFFECTS DISTRICT WISE (AVAILABLE DATA)
SOURCE: PDNA TEAM

Thank you !