



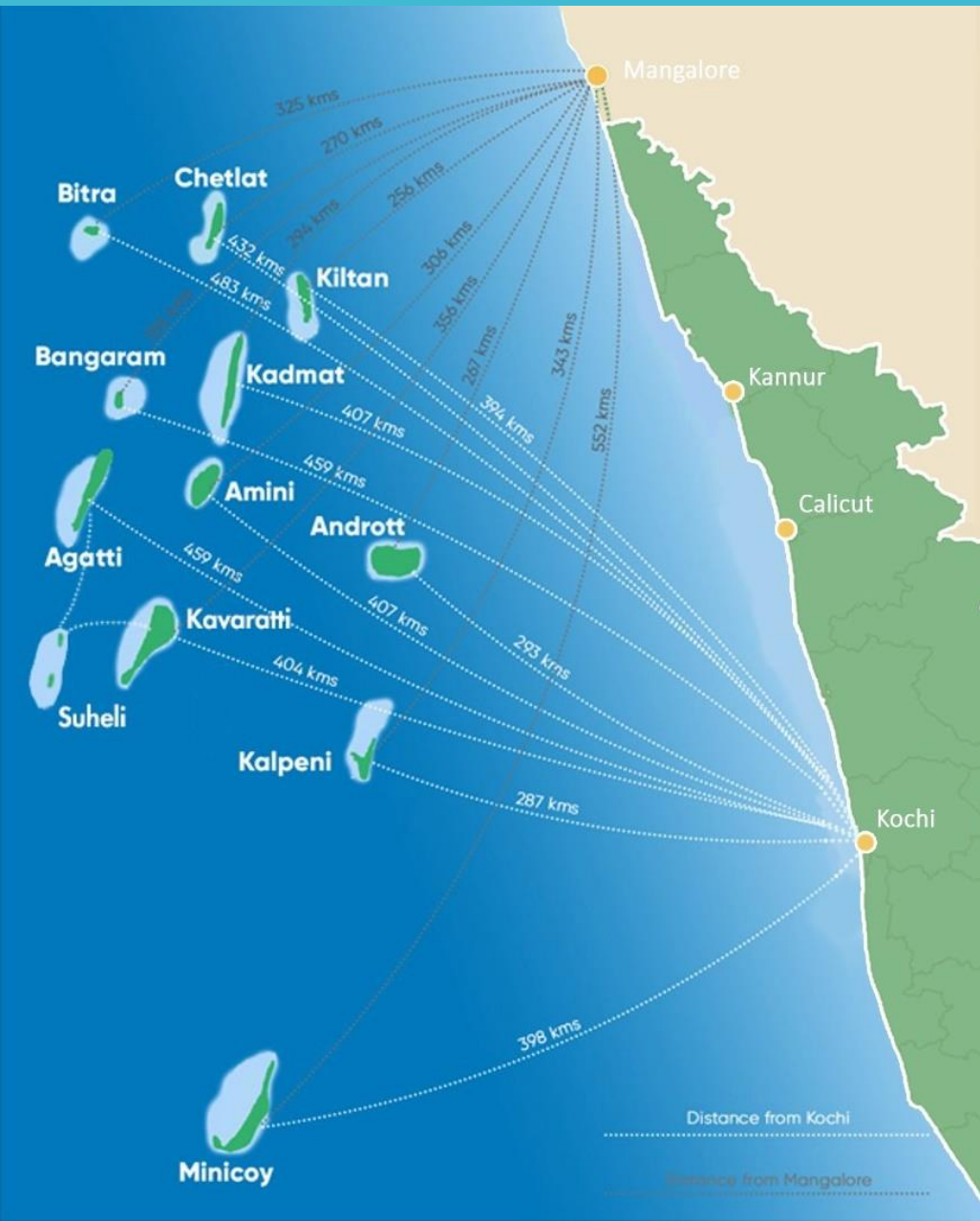
सत्यमेव जयते

UT of Lakshadweep Administration

OVERVIEW ON DISASTER MANAGEMENT



9th March, 2022

Introduction



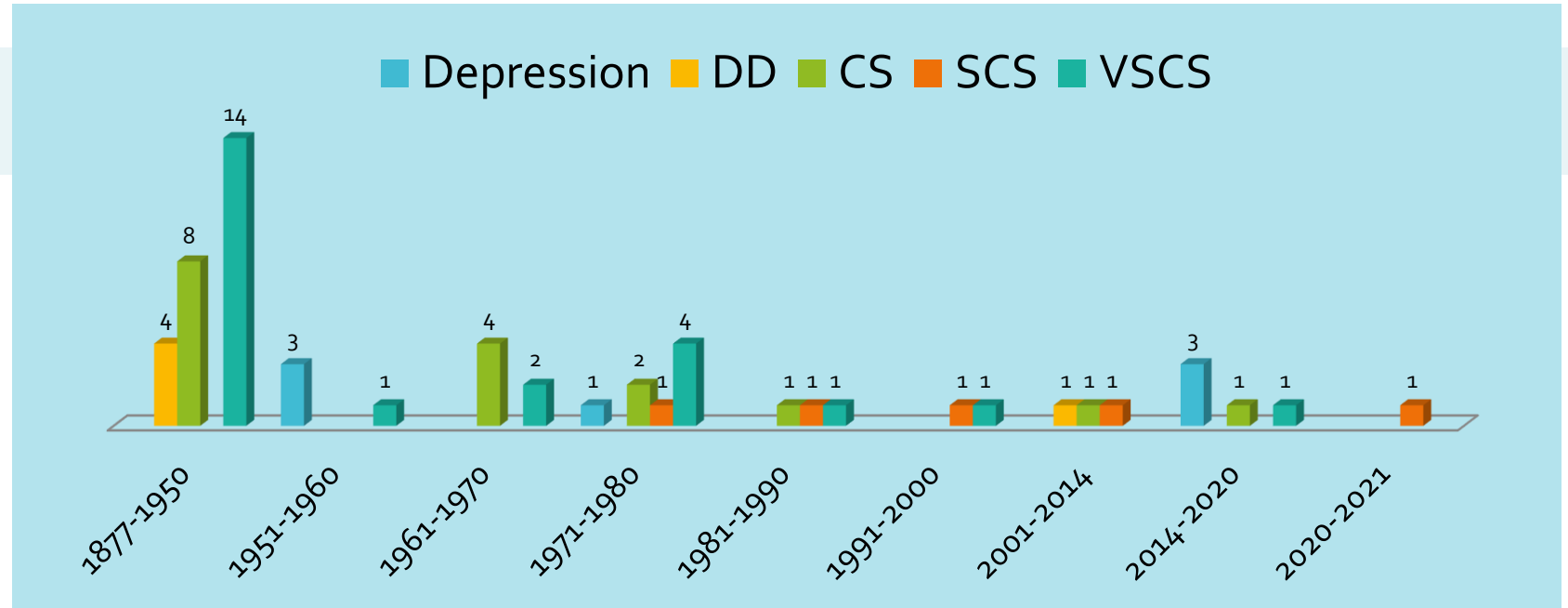
- Lakshadweep, the smallest Union Territory, is a group of 36 islands scattered in the Arabian Sea.
- Lakshadweep islands are located at a distance ranging from 200 km to 400 km from mainland and 60 to 400 km from each other.
- Lakshadweep islands are prone to heavy wind and Cyclonic storms. The India Meteorological Department has measured the degree of cyclone proneness as P2 (Highly prone to Cyclone) in Lakshadweep.
- Lakshadweep islands has classified in the Seismic Zone III with moderate damage risk zone. However, no major earthquake have been reported in islands

Major Hazards

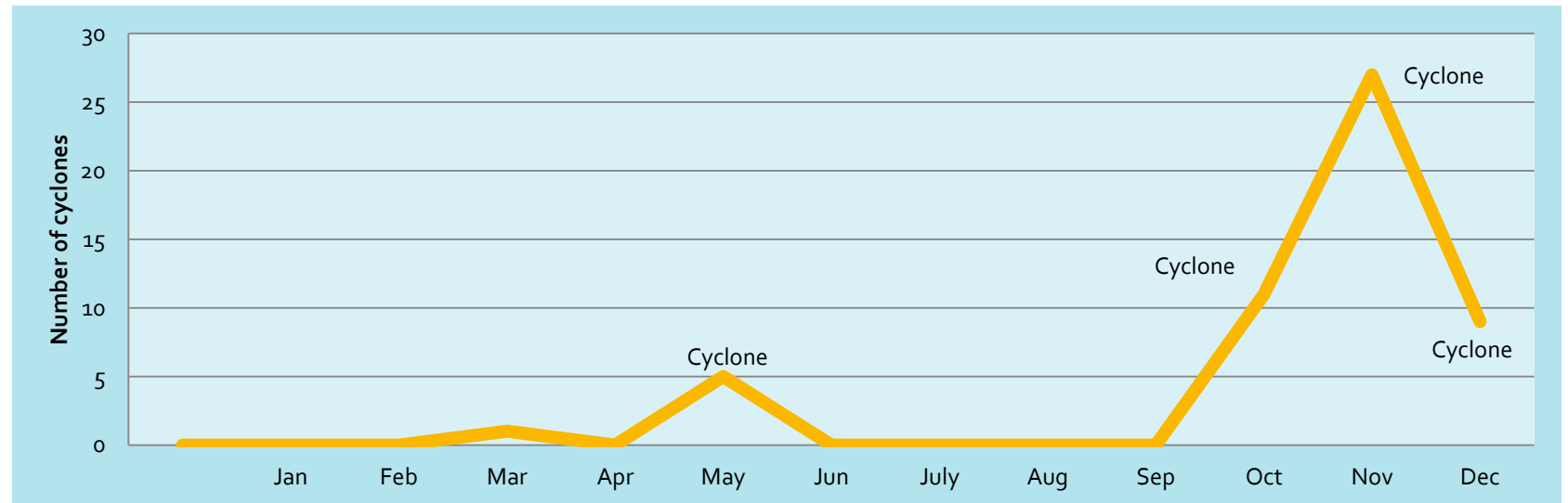
- **Heavy wind and Cyclone Storm** : The Lakshadweep islands are prone to heavy wind and Cyclonic storms. The India Meteorological Department has measured the degree of **cyclone proneness as P2 (Highly prone to Cyclone)** in Lakshadweep. 
- **Costal sea erosion** : The island shoreline are extremely dynamic in response to both natural process such as wind, waves and tide and human activities.
- **Tsunami** : West cost is generally less prone as compared to east coast since the tsunamigenic earthquakes generally in the **Java trench in the Andaman coast. Makran coast (North) is contributing Tsunami vulnerability to Lakshadweep islands.** Though effect of the recent Tsunami of 26th December 2004 was not adversely felt in and around Lakshadweep except for some minor effects in Minicoy and Andrott. 
- **Earthquake** : Lakshadweep islands has classified in the Seismic Zone III with moderate damage risk zone. However, no major earthquake have been reported in islands
- **Oil Spill** : **Lakshadweep islands are on the trade route.** There has been a dramatic increase in oil barge/cargo traffic. An event of oil pollution would cause irrevocable damage to these sensitive areas.

Disaster Risk Scenario

Cyclonic Events from 1877-2021



Monthly Probability for Cyclone Genesis in Lakshadweep



Institutional Arrangements

Structure of SDMA

Hon'ble Administrator
Chairperson

Secretary
(General Administration & Services) Chief Exe. Officer

Member of Parliament, UTL
Member

President – Cum Chief Counselor, District Panchayat
Member

Superintendent of Police
Member

Commandant, IRBn
Member

Managing Director, LDCL
Member

Director (Health Services)
Member

Director, Port
Member

Executive Engineer (Ele)
Member

Structure of State Executive Committee (SEC)

Advisor to the Administrator
Chairperson

Secretary (Revenue / Disaster Management)
Member

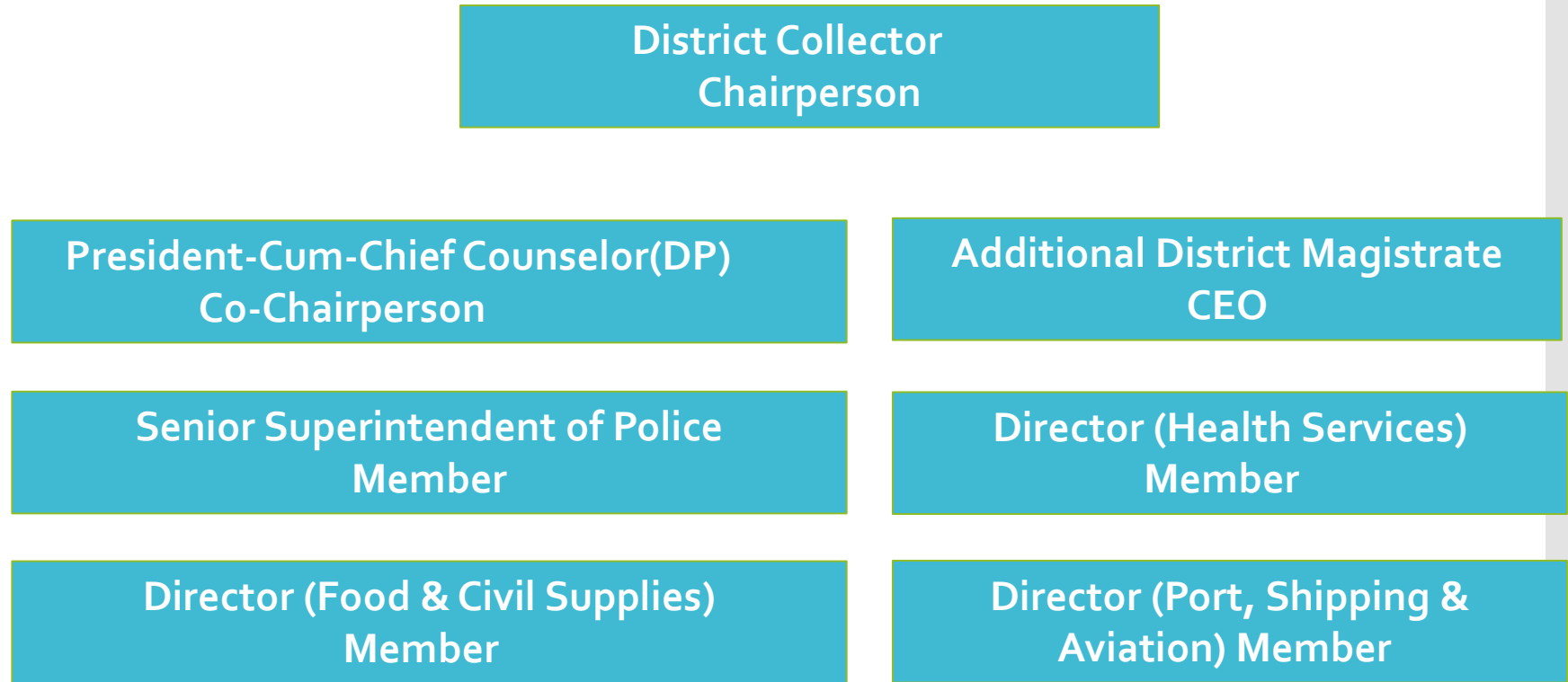
Secretary (Finance)
Member

Secretary (Port, Shipping & Aviation)
Member

Secretary (Health)
Member

Institutional Arrangements

Structure of DDMA



Lakshadweep Disaster Management Plan

- Lakshadweep State Disaster Management Plan was prepared in the year 2015.
- The institutional Frameworks were notified based on SDMP.
- The regular Annual up-dating is carried out up to March, 2021
- Revision of Lakshadweep State Disaster Management Plan is underway based on National Disaster Management Plan 2019.

Implementation of NDMA Projects

Implementation of CAP Projects

- Nominated Nodal officer and Second level Nodal Officer.
- Conducted hands on training
- Nominated officers to process alerts on common CAP platforms
- Created and activated user credentials for live access of NDMA CAP alert system

Implementation of ERSS Projects

- Lakshadweep is in IIIrd phase of implementation.
- A preliminary discussion with C-DAC officers conducted at Lakshadweep during January, 2022
- Site preparation and manpower recruitment process started

Implementation of NDMA Projects

Up-scaling of Aapda Mitra Scheme

- Nominated Nodal Officers.
- Empanelled Training Institute for training of volunteers
- Translation / printing of training manual : We have to get the training module translated into Malayalam. As agreed during last VC held on 22.2.2022 it was decided to get the translated material from Kerala for the use at Lakshadweep. Awaiting Malayalam version of module being translated by Kerala SDMA
- Volunteers for 1st round of training is already identified and list furnished to NDMA

Sendai Framework

- MoU Signed with NDMA.
- The recruitment process for hiring Consultant / Disaster Management Professional is commenced

NCRMP

- Appointed Nodal Officer.
- Shared all the required details to implementing agencies.
- Installation of software is in progress

Response Institutions

State Disaster Response Force

- State Disaster Response Force (SDRF) has been constituted under the Department of Fire & Rescue, Kavaratti in 2016.
- Strength of the SDRF is 34 personnel.
- The SDRF is functioning under the direct command of the Deputy Superintendent of Police (Fire & Rescue).
- Resources of Fire & Rescue department are using during emergencies .

Other Response Institutions

- The 4th Battalion NDRF Arakkonam (TN) is extending support.
- Indian Navy is stationed at Kavaratti.
- Indian Coast Guard having District Headquarter at Kavaratti
- Lakshadweep State Disaster Management Authority is working in close coordination with all response agencies.

Status of Notification

- Incident Response System is not yet notified.
- The process of notification of Incident Response System is in the final stage and expected to notify before 31st March, 2022
- However a robust system is in place to response to incidents as per SOPs.

Disaster Risk Reduction (DRR) Initiatives

- **Multipurpose Evacuation cum Community shelter** construction work has been completed at **Minicoy**.
- All the school building (RCC building) in each island has identified as shelters for evacuating the vulnerable population during disaster..



Evacuation shelter at Minicoy

Evacuation Shelters

Source of Fund	Prime Minister's National Relief Fund (PMNRF)
Capacity	250 Persons (Approx.)

Disaster Risk Reduction (DRR) Initiatives

Community Based Disaster Risk Management

- Every Year Familiarization Exercises (FAMEX) are conducting for Public, School Children, NGOs etc with support of National Disaster Response Force (NDRF) 4th Battalion Arakkonam, Tamil Nadu at various islands for generating cyclone awareness among the public.
- Capacity building programmes were also conducted for officials and students in association with NIDM and NYK at Lakshadweep. More training programmes and mock exercises are planning to build the capacity of community.
- The community participation is ensured by conducting training to fisherman in safe berthing of boats, First Aids, CPR, etc



Oil Spill Disaster Contingency Plan & Mass Rescue Operation (MRO) Plan

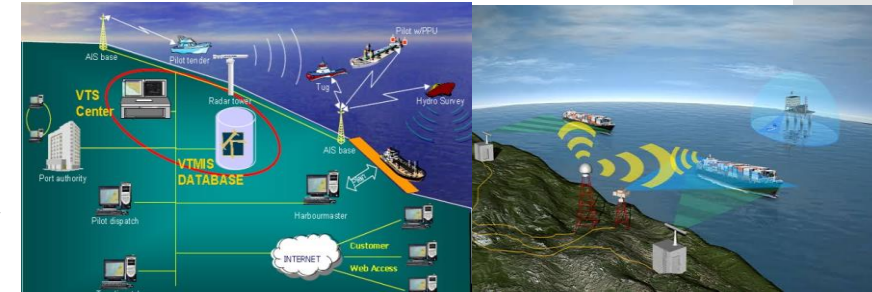
- Oil Spill Disaster Contingency Plan (OSDCP) has been prepared and updated to prevent, control, and combat oil pollution of the territorial waters and shoreline and also for Minimize their impact on public health and welfare and on the maritime environment .
- Mass Rescue Operation (MRO) Plan has also been prepared to ensure prompt and coordinated response to mass rescue operation for saving of lives at sea due to ship collision, a downed aircraft, call for the immediate rescue of large numbers of passengers and crew in poor environmental conditions etc.



Way Forward

Vessel Tracking & Monitoring System

- A comprehensive **Vessel Tracking & Monitoring System** including for fishing boats has been proposed under Sagarmala Scheme in consultation with Coast Guard & Indian Navy (~ Rs. 55 Cr. Estimated cost)



Integrated Island Management Plan

- Implementation of Integrated Island Management Plan in letter and spirit
- Scientific marking of NDZ areas in all inhabited islands completed. Initiated demolition of all unauthorised structures in the NDZ areas in all inhabited islands
- New Doppler Radar will be installed at Agatti airport under IMD for specific weather predication.
- Planned to provide safe parking facilities for fishing boats

Challenges

- Geographical isolation of islands demands higher level of preparedness and alert to mitigate the effect of Disaster
- Global Warming & Climate Change make the islands' territory more vulnerable to Natural Disasters
- Deployment of NDRF teams at the time of disaster is a challenge
- The co- existence of people with thick vegetation of coconut trees is a challenge as major damages during heavy wind are due to falling / up rooting of coconut trees on houses.

Thank You

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