



# CDEMA-CROSQ Collaboration on Regional Disaster Management and Resilience

Presented by  
Ronald. H Jackson  
Executive Director, CDEMA



# PRESENTATION OVERVIEW

- ❖ **Caribbean Disaster Emergency Management Agency (CDEMA)**
- ❖ **Hazards Affecting CDEMA Participating States**
- ❖ **Comprehensive Disaster Management and Major Programming Initiatives**
- ❖ **Role of Bureaus of Standards**
- ❖ **Way Forward**

# CDEMA: WHO ARE WE?

- ❖ **Institution of the Caribbean Community (CARICOM)**
- ❖ **Caribbean Disaster Emergency Management Agency is the regional inter-governmental Agency responsible for disaster management in the Caribbean Community (CARICOM)**

# CDEMA: WHAT DO WE DO?

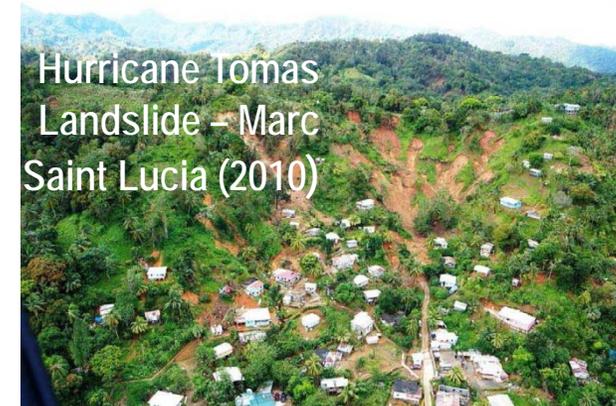
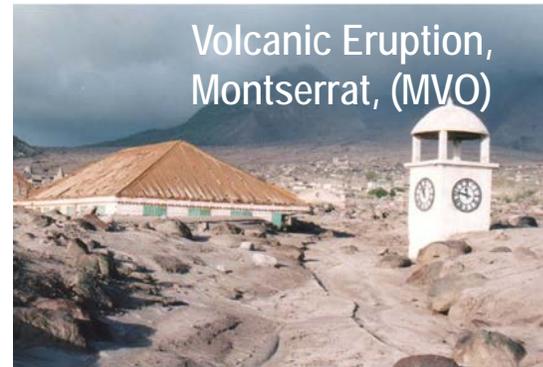
- 1. Relief and response coordination**
- 2. Mitigating consequences of disasters**
- 3. Providing comprehensive information on disasters**
- 4. Encouraging disaster loss reduction and cooperative arrangements and mechanisms to facilitate the development of a culture of disaster loss reduction**
- 5. Coordinating the establishment enhancement and maintenance of adequate emergency disaster response capabilities among the Participating States**



# CDEMA PARTICIPATING STATES



# HAZARDS



# HAZARD CONSIDERATIONS

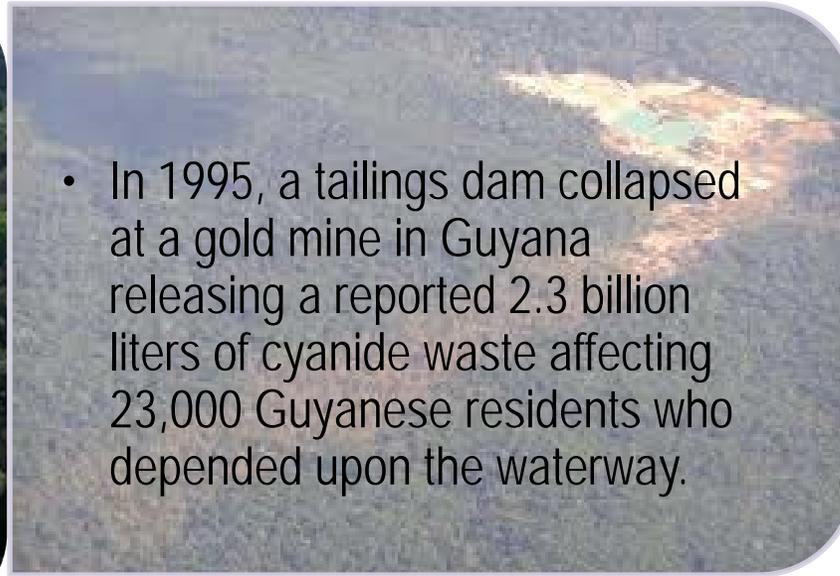
## ❖ **Implications of Climate variability & change**

- Amplification of hydro meteorological hazards – intensity & extremes; new norms?
- Amplification of vulnerability – economic, social and environmental
- Uncertainty ...

# hazards



- In 1995, a tailings dam collapsed at a gold mine in Guyana releasing a reported 2.3 billion liters of cyanide waste affecting 23,000 Guyanese residents who depended upon the waterway.



# SELECTED HAZARD IMPACTS IN CDEMA PARTICIPATING STATES

<b>TIME</b>	<b>PLACE</b>	<b>HAZARD</b>	<b>IMPACT</b>
1988	Jamaica	Hurricane Gilbert	65% GDP
1989	5 countries	Hurricane Hugo	US\$412 M
1999	Dominica	Hurricane Lenny	53% GDP
2004	Haiti & DR	Flooding	270 deaths
2004	Grenada	Hurricane Ivan	US\$895 M
2004	Jamaica	Hurricane Ivan	US\$592 M
2005	Guyana	Flooding	60% GDP
2010	Saint Lucia	Hurricane Tomas	334M US\$
2017	Dominica	Maria	226% GDP

# CDM STRATEGY 2014-2024 & PROGRAMMING INITIATIVES

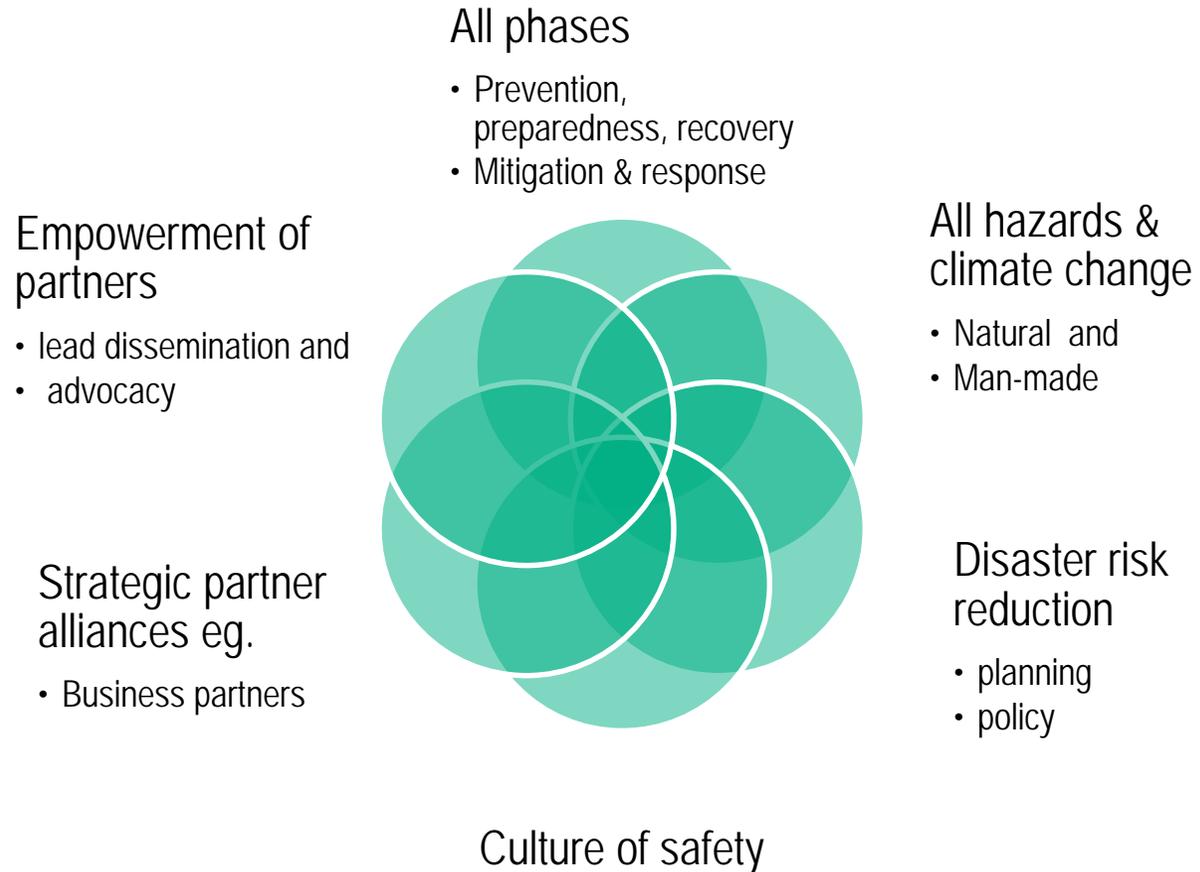


## RESILIENCE - UNISDR

### ❖ Resilience:

- The ability of a system, community or society exposed to hazards to resist, absorb, accommodate, adapt to, transform and recover from the effects of a hazard in a timely and efficient manner, including through the preservation and restoration of its essential basic structures and functions through risk management.

# COMPREHENSIVE DISASTER MANAGEMENT (CDM) – THE CARIBBEAN BRAND OF DISASTER RISK MANAGEMENT

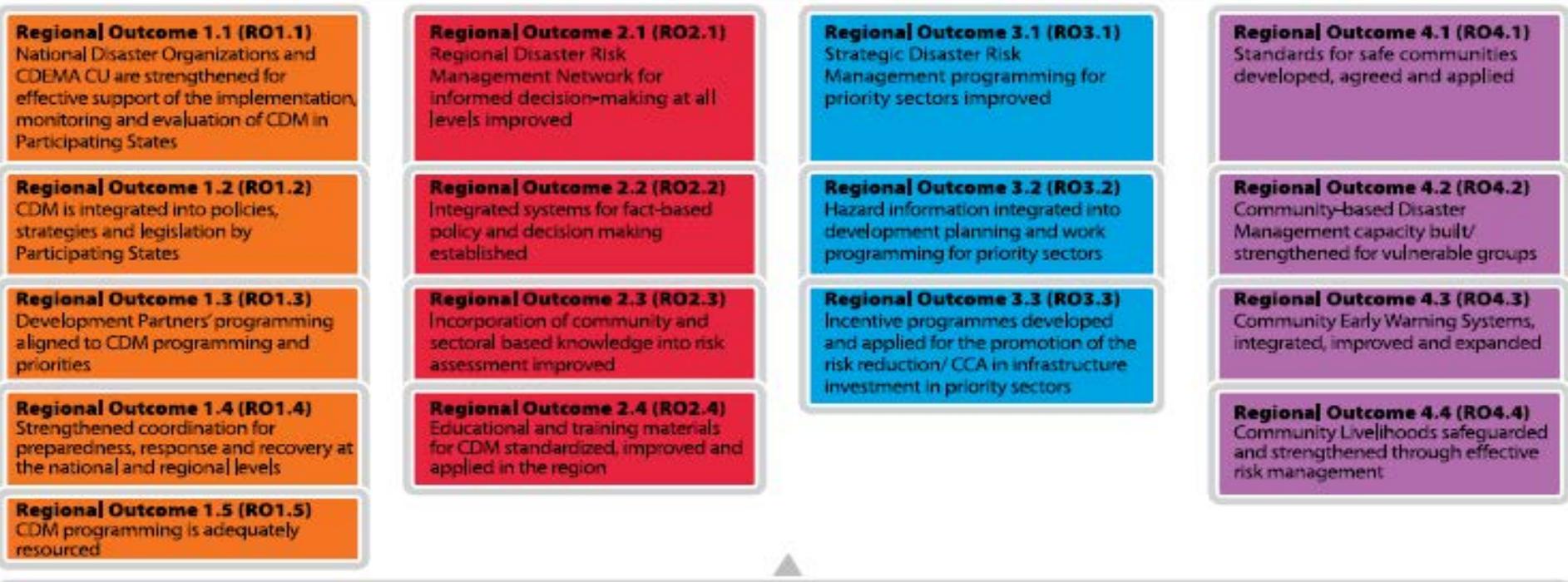


**REGIONAL GOAL** Safer, more resilient and sustainable CDEMA Participating States through Comprehensive Disaster Management

**CDM PRIORITY AREAS**



**REGIONAL OUTCOMES**



**CROSS-CUTTING THEMES**



# BASIC PRINCIPLE

Standard Setting  
and Model  
Programming

Consistent approaches for interoperability  
Developing 'public goods' through model programming

## KEY PROGRAMME COMPONENTS: INSTITUTIONAL STRENGTHENING

### National CDM Policy Framework

- Long term policy framework for implementing CDM

### National CDM Strategy

- National plan of action for implementing the national CDM policy

### National CDM Legislative Framework

- Prescribe the necessary actions to be followed by society to ensure there is compliance with the principles and concepts of CDM

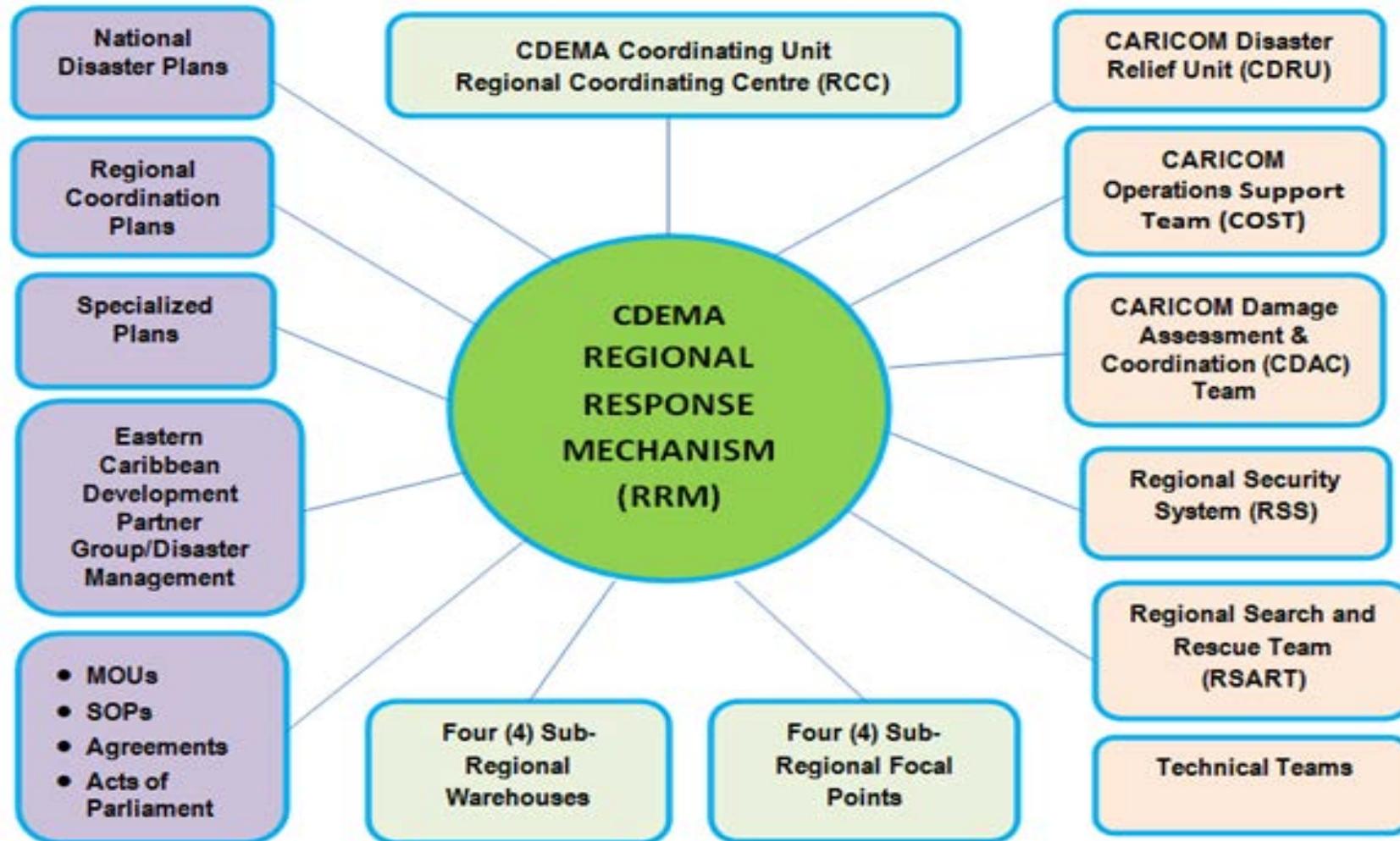
### National Multi-Year Work Programmes

- A road map for countries to implement CDM and a basic framework to facilitate the monitoring of achievements

### National Monitoring and Evaluation of Progress

- Measurement of progress being made towards expected results and documenting lessons learned for enhancing work programmes

# KEY PROGRAMME COMPONENTS: INSTITUTIONAL STRENGTHENING – OPERATIONAL READINESS

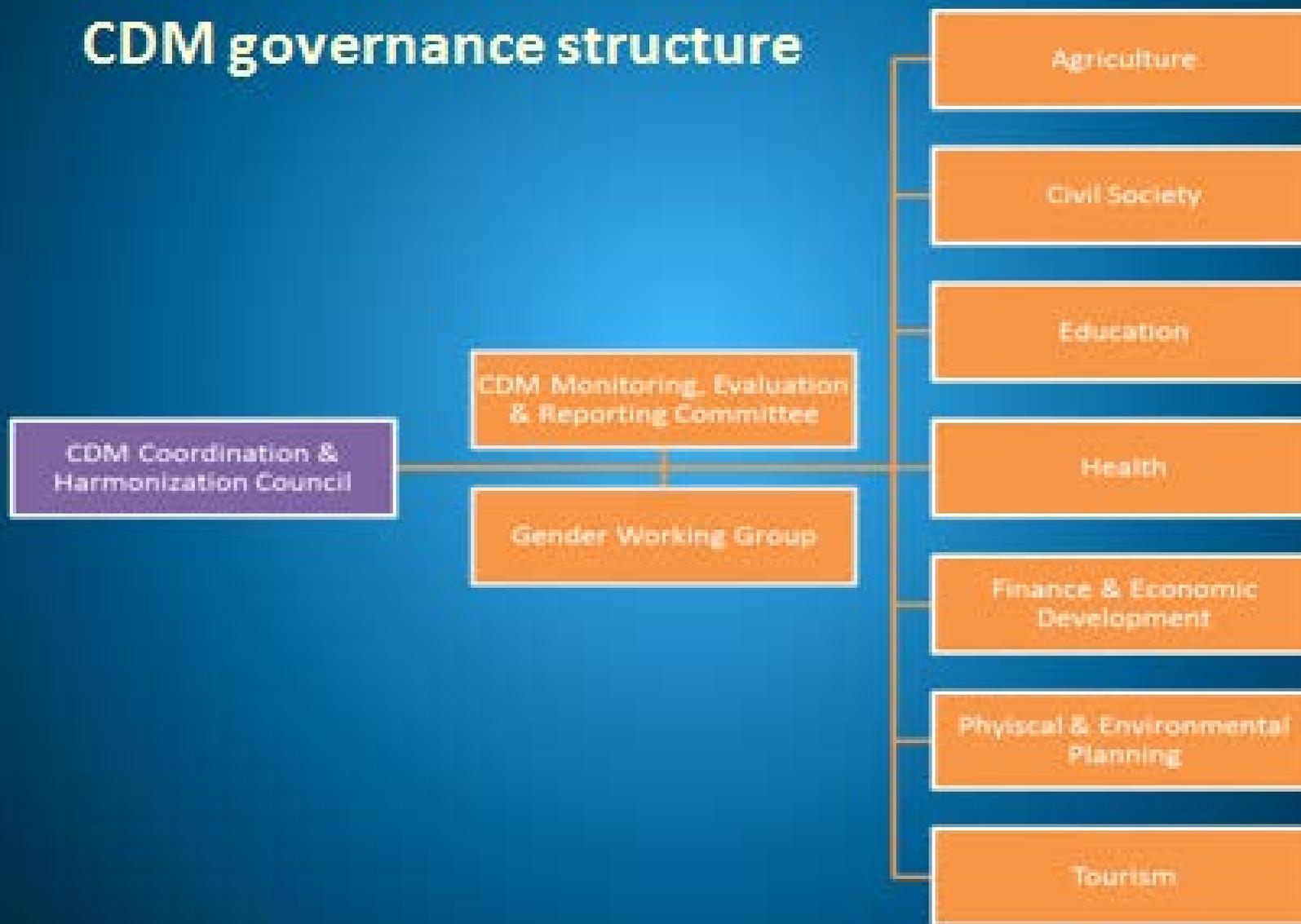


## KEY PROGRAMME COMPONENTS: KNOWLEDGE MANAGEMENT

- ❖ Caribbean Risk Information System (CRIS)
- ❖ CDEMA Regional Training Centre (RTC)
- ❖ Safe Schools Programme

## KEY PROGRAMME COMPONENTS: SECTOR MAINSTREAMING

### CDM governance structure



## KEY PROGRAMME COMPONENTS: COMMUNITY RESILIENCE

- ❖ Community Resilience Framework
- ❖ Early Warning Systems
- ❖ Community Emergency Response Teams

# ROLE OF BUREAUS OF STANDARDS



## TREATMENT OF STANDARDS IN THE AGREEMENT ESTABLISHING CDEMA: ARTICLE XI – FUNCTIONS OF THE TAC

- ❖ (b) recommend standards and procedures for the fair and equitable deployment of resources for disaster management made available by Participating States
- ❖ (c) recommend the standards and procedures for triggering the disaster response mechanism



## IMPLICIT STANDARDS REQUIREMENT: ARTICLE XIII – FUNCTIONS OF THE CDEMA CU

- ❖ (a) develop and maintain a reliable damage assessment system and procedures to facilitate rapid and effective evaluation of national disasters
- ❖ (c) establish, equip and maintain a *coordinated emergency operations system* capable of responding to emergency situations
- ❖ (d) establish and maintain an *efficient and reliable system of communications* with sub-regional operational focal points in order to facilitate the mobilisation deployment and coordination of disaster response supplies and services,
- ❖ (e) establish and maintain a *reliable system of communications with the heads of national disaster management Agencies and ensure that their disaster response capabilities are maintained at agreed levels of operational efficiency*

# SYSTEMS ASSUME

- ❖ Interoperability
- ❖ Standards exist
- ❖ All parties aware of standards and implement them

# STANDARDS WHICH ARE ENFORCED REQUIRED FOR:

## Built Environment

### ❖ Public Buildings

- BVI - 95% damage to Central Administration Complex which housed several government ministries

### ❖ Housing: Wide spread damage

- Barbuda - 99% of building stock damaged
- Dominica - 98% roof damage

### ❖ Critical Infrastructure

- Eg. Hospitals, Police stations

### ❖ Schools



Central Administration Complex  
Road Town, Tortola. Credit Liz Riley



Virgin Islands – Maria's By the Sea Credit: Liz Riley

# WAY FORWARD

- ❖ Engagement of Bureaus of Standards in national Disaster Risk Management governance mechanisms
- ❖ Facilitating standards development and adoption in support of resilience building
- ❖ Lobbying and advocacy on the modernization, legislation and enforcement of building codes

# THANK YOU

