



National Disaster Risk Reduction and Management Centre (NDRRMC)

(Ministry of Social Security and National Solidarity, and Environment and Sustainable Development)

GET-19 Pre Event
Common Alerting Protocol Workshop

Intercontinental Hotel, Mauritius
5th March 2019



Represented by: **Darmen Ellayah**



Republic of Mauritius



Capital: Port Louis

Area: 2040 km²

Water: 0.07%

Population: 1, 265, 577

Currency: Mauritian Rupee

Per Capita: \$24.248



Vulnerability of Mauritius



Cyclones

Heavy Rain /
Torrential Rain



Flooding & Flash
Floods



Storm Surges



Landslides



World Risk Report 2017

The 15 countries with the highest risk worldwide

Country	Risk (%)
Vanuatu	36.45
Tonga	28.57
Philippines	27.69
Guatemala	20.46
Bangladesh	19.57
Solomon Islands	18.77
Costa Rica	17.16
Cambodia	16.92
El Salvador	16.74
Timor-Leste	16.37
Papua New Guinea	16.34
Brunei Darussalam	16.22
Mauritius	15.11
Nicaragua	14.88
Fiji	13.50

The 15 countries with the highest exposure worldwide

Country	Exp. (%)
Vanuatu	63.66
Tonga	55.27
Philippines	52.46
Japan	45.91
Costa Rica	42.61
Brunei Darussalam	41.10
Mauritius	37.35
Guatemala	36.30
El Salvador	32.60
Bangladesh	31.70
Chile	30.95
Netherlands	30.57
Solomon Islands	29.98
Fiji	27.71
Cambodia	27.65

“Disasters are unpredictable and can happen anytime”

Flash Flood in Port Louis on 30th March 2013

Times: 1000hrs

Normal activity in Port Louis



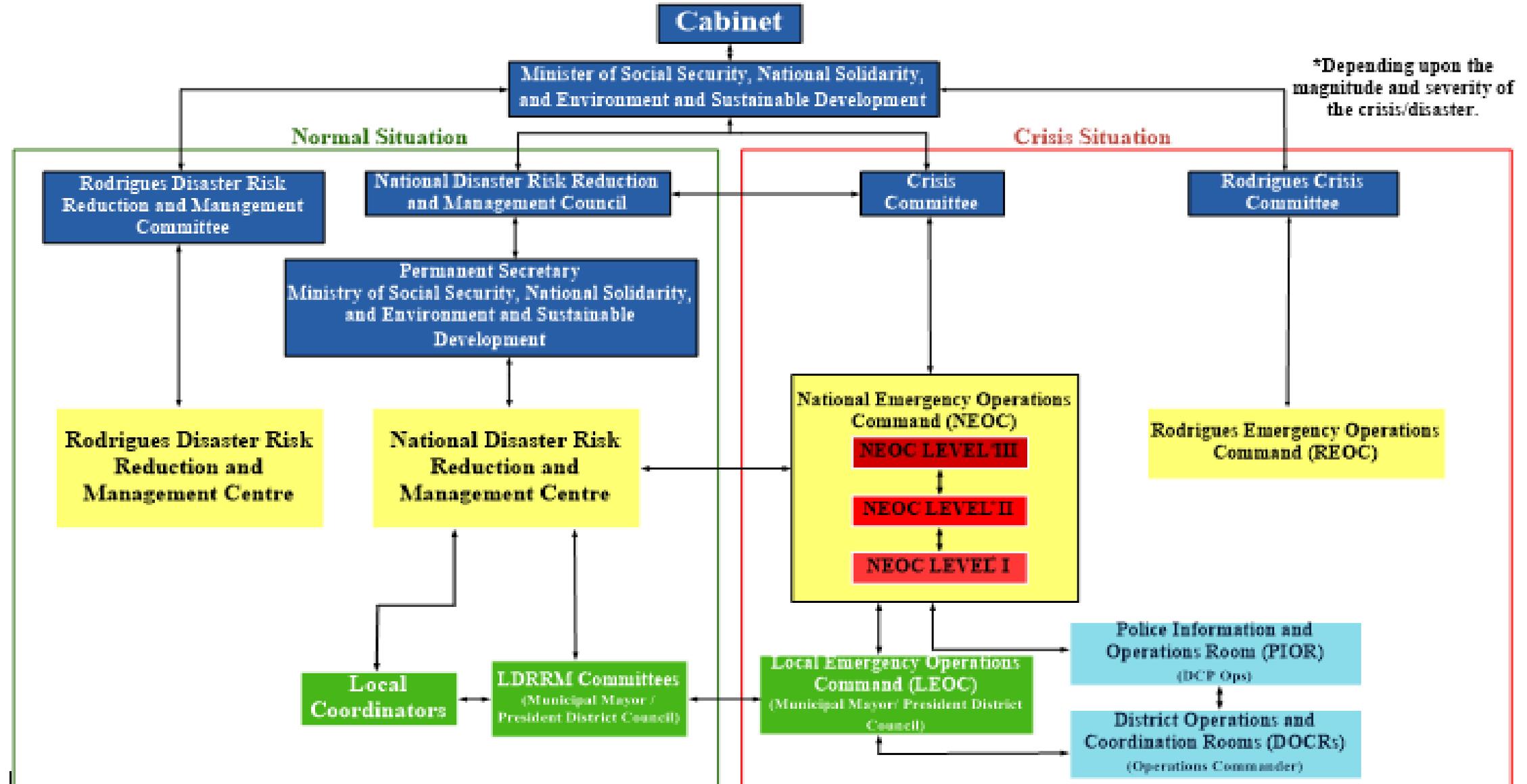
Time: 1400hrs

Flash Flood in Port Louis



[Video](#)

New Disaster Management Structure



National Disaster Risk Reduction and Management Centre (NDRRMC)

Vision

To effectively and efficiently reduce disaster risks and manage response operations to minimise casualty

Mission

To make Mauritius become more economically, socially, physically and environmentally resilient to disasters

Sendai Framework for Disaster Risk Reduction

1 OUTCOME

The substantial reduction of disaster risk and losses in lives, livelihoods and health and in the economic, physical, social, cultural and environmental assets of persons, businesses, communities and countries

1 GOAL

Prevent new and reduce existing disaster risk through the implementation of integrated and inclusive economic, structural, legal, social, health, cultural, educational, environmental, technological, political and institutional measures that prevent and reduce hazard exposure and vulnerability to disaster, increase preparedness for response and recovery, and thus strengthen resilience

4 PRIORITIES FOR ACTION – Local, National, Regional and Global Levels

<p>PRIORITY 1 Understanding disaster risk</p>	<p>PRIORITY 2 Strengthening disaster risk governance to manage disaster risk</p>	<p>PRIORITY 3 Investing in disaster risk reduction for resilience</p>	<p>PRIORITY 4 Enhancing disaster preparedness for effective response, and to “Build Back Better” in recovery, rehabilitation and reconstruction</p>
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7 GLOBAL TARGETS

<p>Target 1 Reduce Disaster Mortality by 2030</p>	<p>Target 2 Reduce affected people by 2030</p>	<p>Target 3 Reduce Economic loss by 2030</p>	<p>Target 4 Reduce Infrastructure damage by 2030</p>	<p>Target 5 Strengthen DRR National/ Local strategies by 2020</p>	<p>Target 6 Reinforce International Cooperation by 2030</p>	<p>Target 7 Strengthen Early Warning System and DRR Information by 2030</p>
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ROLES OF STAKEHOLDERS

<p>Civil society, volunteers, community (women, children and youth, persons with disabilities, etc.)</p>	<p>Academia, scientific and research entities and network</p>	<p>Business, professional associations and financial institutions</p>	<p>Media</p>
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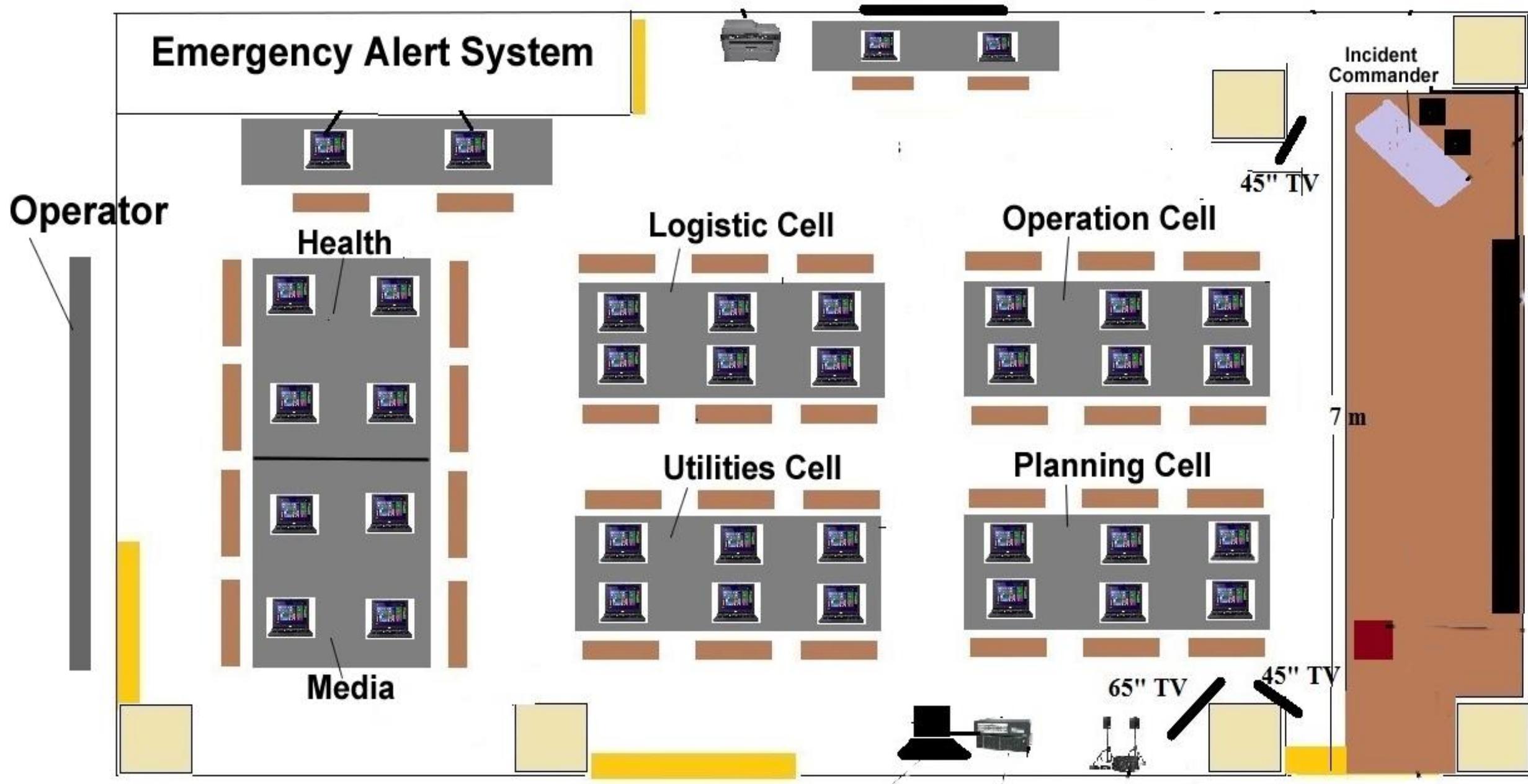
INTERNATIONAL COOPERATION AND GLOBAL PARTNERSHIP

<p>General considerations</p>	<p>Means of implementation</p>	<p>Support from international organization</p>	<p>Follow-up actions</p>
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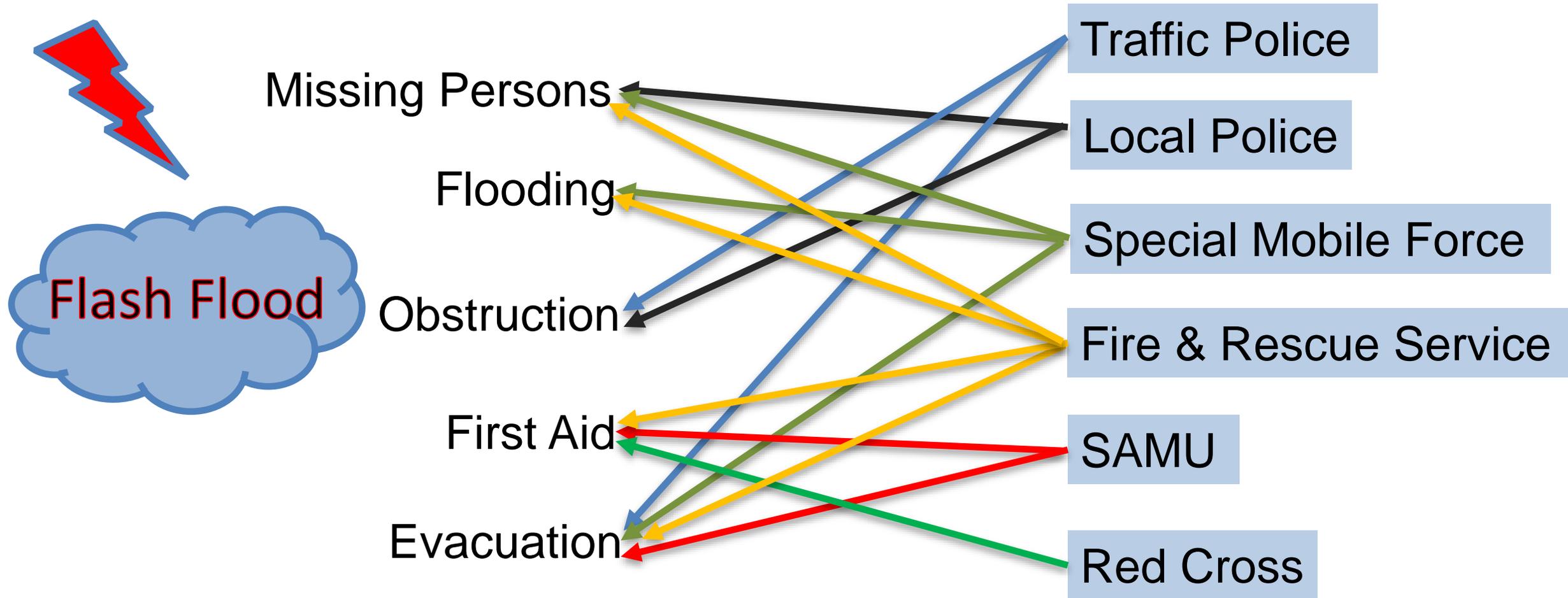
NEOC in Action



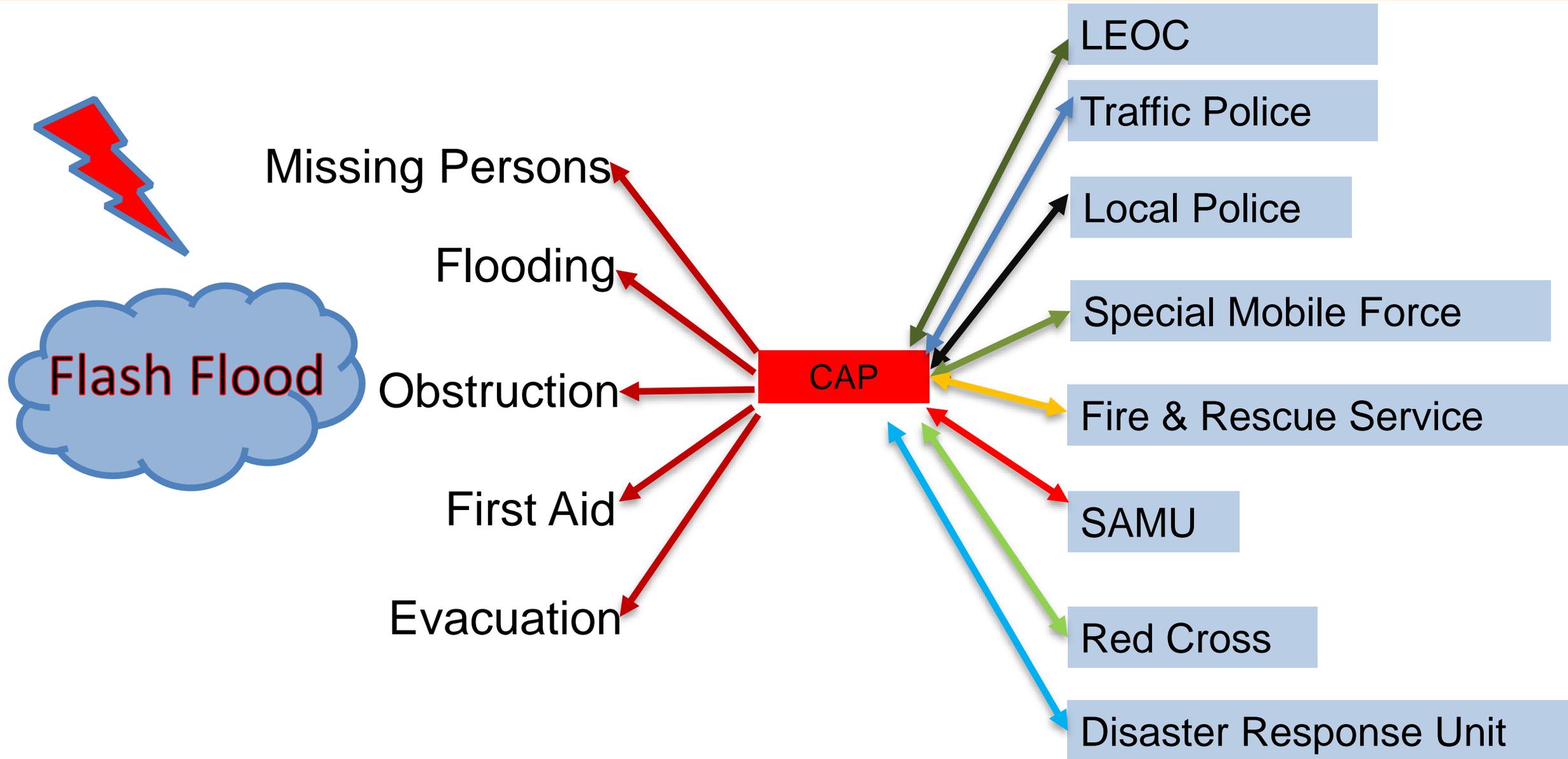
ICS - Incident Command System



Confusing and Unstructured Approach



Effective and Structured Approach



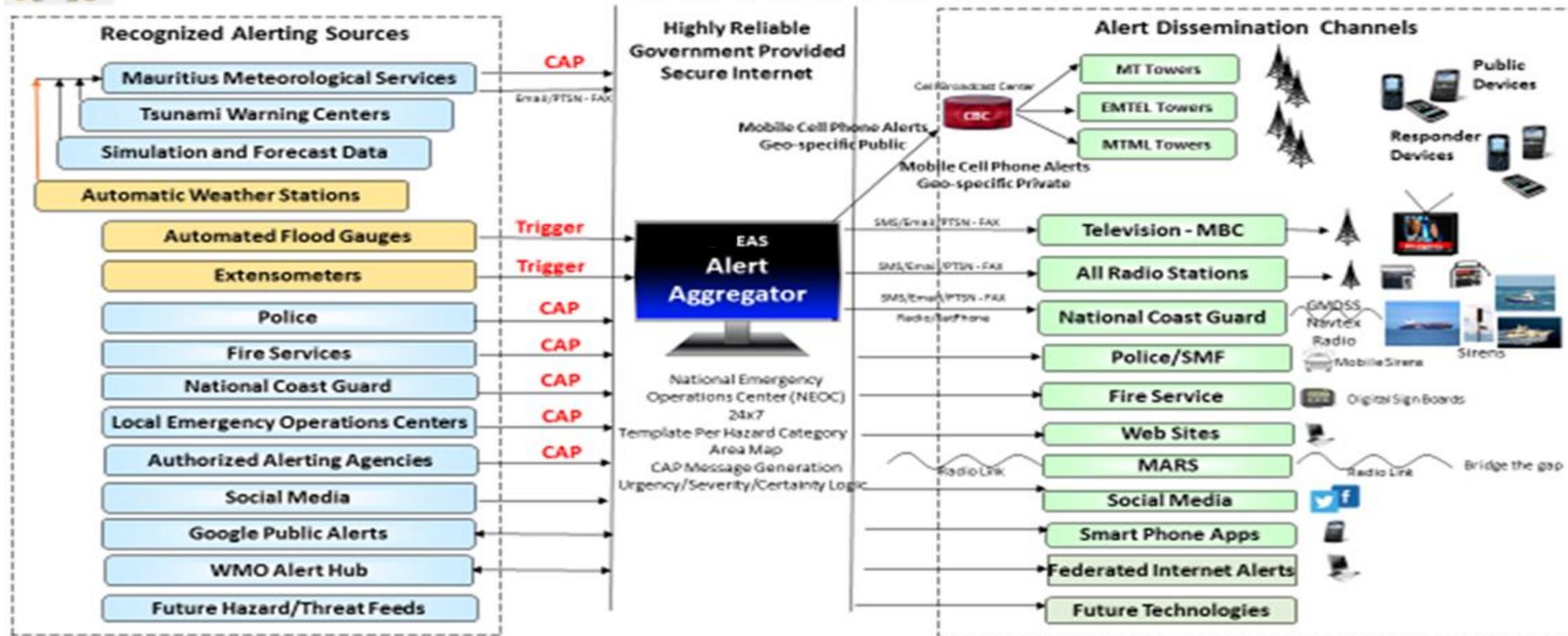
Why using Common Alert Protocol (CAP)

- Flexibility for geographic targeting
- Multiple channel, language and audience messaging
- Phased and delayed effective times
- Enhanced message update and cancellation features
- Support framing complete and effective warning messages
- Digital Signature Capability
- Digital Text, Images and Audio
- Easy to use

National Multi-Hazard Emergency Alert System



EAS Architecture



Input Interfaces

Logic of message Processing within the EAS server

Dissemination Methods

Emergency Alert App

Mobile App – Component of Emergency Alert System for issue of real-time information, alerts, warnings and advisories to the general public and key stakeholders in times of emergencies and disasters.

Downloadable on PlayStore and App Store

2019 Champion for the World Summit on the Information Society



MyT weather

Private and Public Partnership by the Mauritius Telecom.

Common platform for emergency information on Weather Bulletin, Sea Info, Rainfall Weather Forecast, Cyclone Tracks, Cyclone Bulletins, Major Incidents, Traffic Bulletin, Education Bulletin, Emergency Info.

Downloadable free on PlayStore and App Store



MEDIUM OF COMMUNICATION & DISSEMINATION



Mauritius Meteorological Services

Saturday, March 2, 2019

Weather Cyclone Torrential Rain High Waves Tsunami Climate Services Sun, Moon & Tides Satellite & Chart

January 2019

7-Day Probabilistic Forecast for Mauritius

SAT, MAR 2	SUN, MAR 3	MON, MAR 4	TUE, MAR 5	WED, MAR 6	THU, MAR 7	FRI, MAR 8
Occasional showers E & CP	Morning passing showers	Mainly fair	Partly cloudy Few night showers	Afternoon localised showers N, NW & CP	Partly cloudy	Partly cloudy
22° 33°	21° 33°	22° 33°	22° 33°	20° 32°	20° 33°	20° 33°

my.t weather app

Current conditions

Rodrigues (Pte Canon)
partly cloudy day
31°

Facebook post for NDRRMC

NDRRMC

"Tracking the sky... Helping the country."

HELP US TO REDUCE DISASTER RISK

NDRRMC

212k likes



National Disaster Risk Reduction & Management Centre

HELP US TO REDUCE DISASTER RISK

NDRRM Act 2016

Sendai Framework

Sendai Framework for Disaster Risk Reduction 2015 - 2030

National Disaster Scheme

- Warnings & Alerts
- Cyclone Warning
 - High Waves Warning
 - Landslide Warning
 - Torrential Rain Warning
 - Tsunami Warning
- Safety & Security Advice
- Cyclone
 - Earthquake
 - Flooding
 - Landslide
 - Tsunami



Emergency Contacts

City: All

météo

Antenne
St-Benoît
Maurice, Rodrigues
Réunion

PAGASA Mobile

Download the app

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CREATE YOUR OWN APP

YouTube

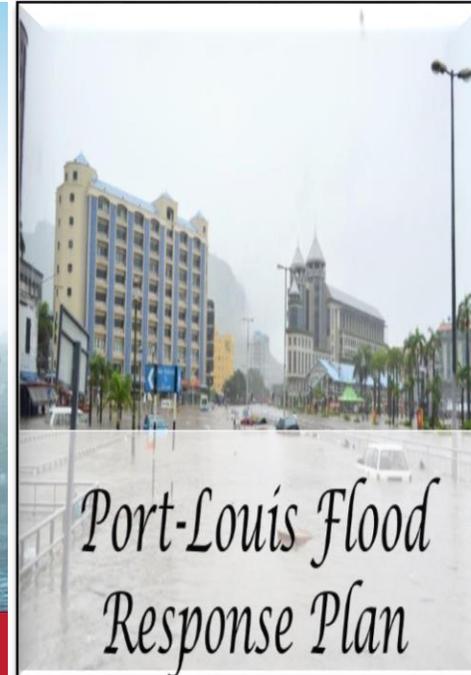
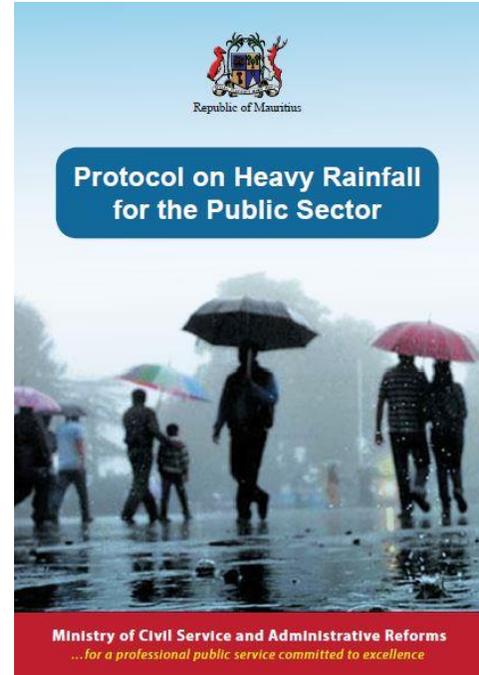
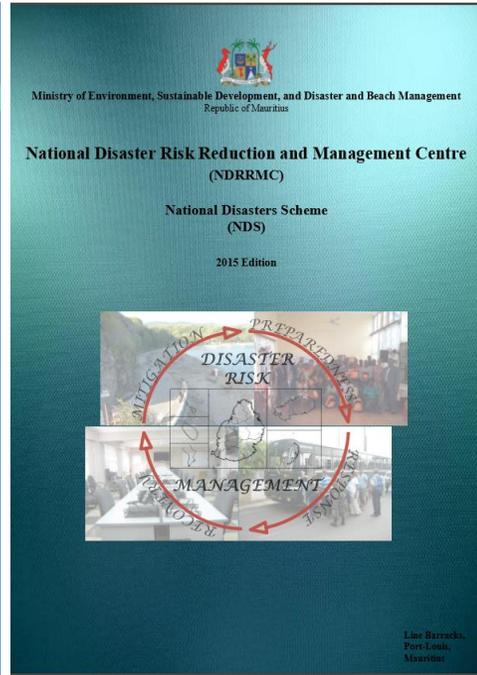
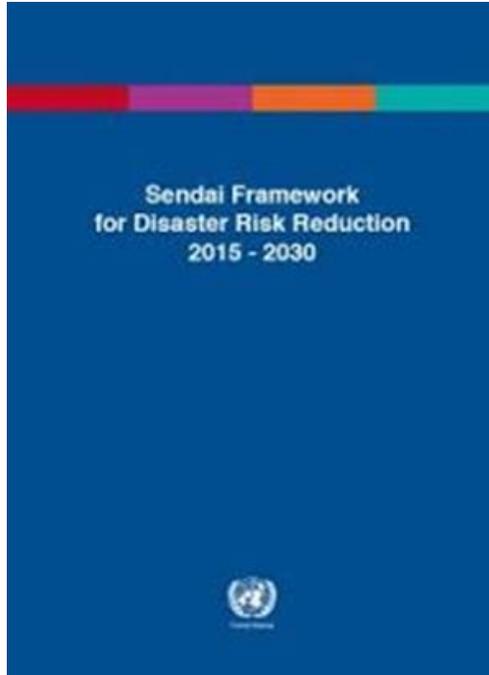
Twitter feed for NDRRMC

NDRRMC

Follow PAGASA-DDEET

Tweets by @NDRRMC

Sustainability



Incorporate Future Technologies

- SAFE City Project
- Cell Broadcast Service
- Cube SAT
- IoT Sensors
- Flood Monitoring System
- Automatic Rainfall Stations
- SigFox IOT Network for the Mascarenes Connect Project

Contact Us

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Questions



Thank You