



National Disaster Risk Reduction and Management Centre (NDRRMC)

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

Global Forum on Emergency Telecommunications (GET-19)

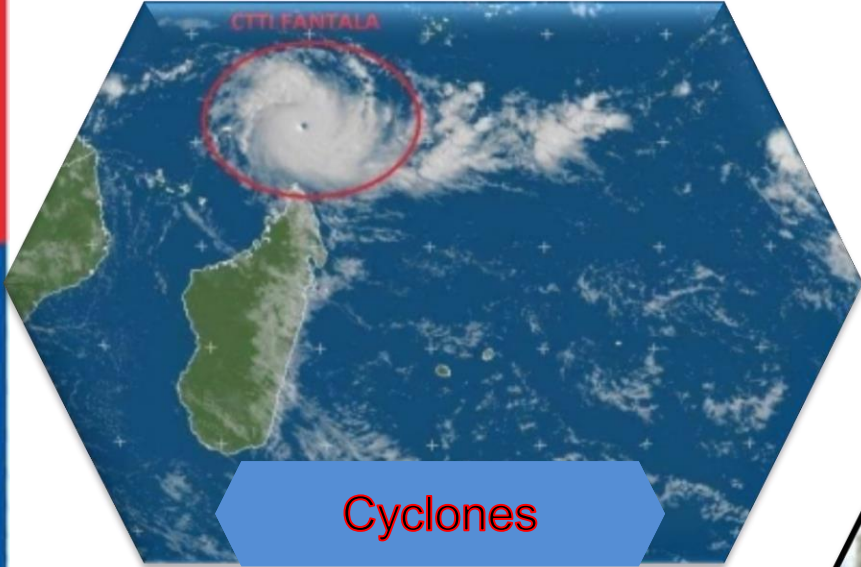
Improving Disaster Resilience

8 March 2019, Intercontinental Hotel
Mauritius

Republic of Mauritius



Main Hazards and Vulnerability



Cyclones



Storm Surges



Flooding & Flash
Floods



Heavy Rain /
Torrential Rain



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

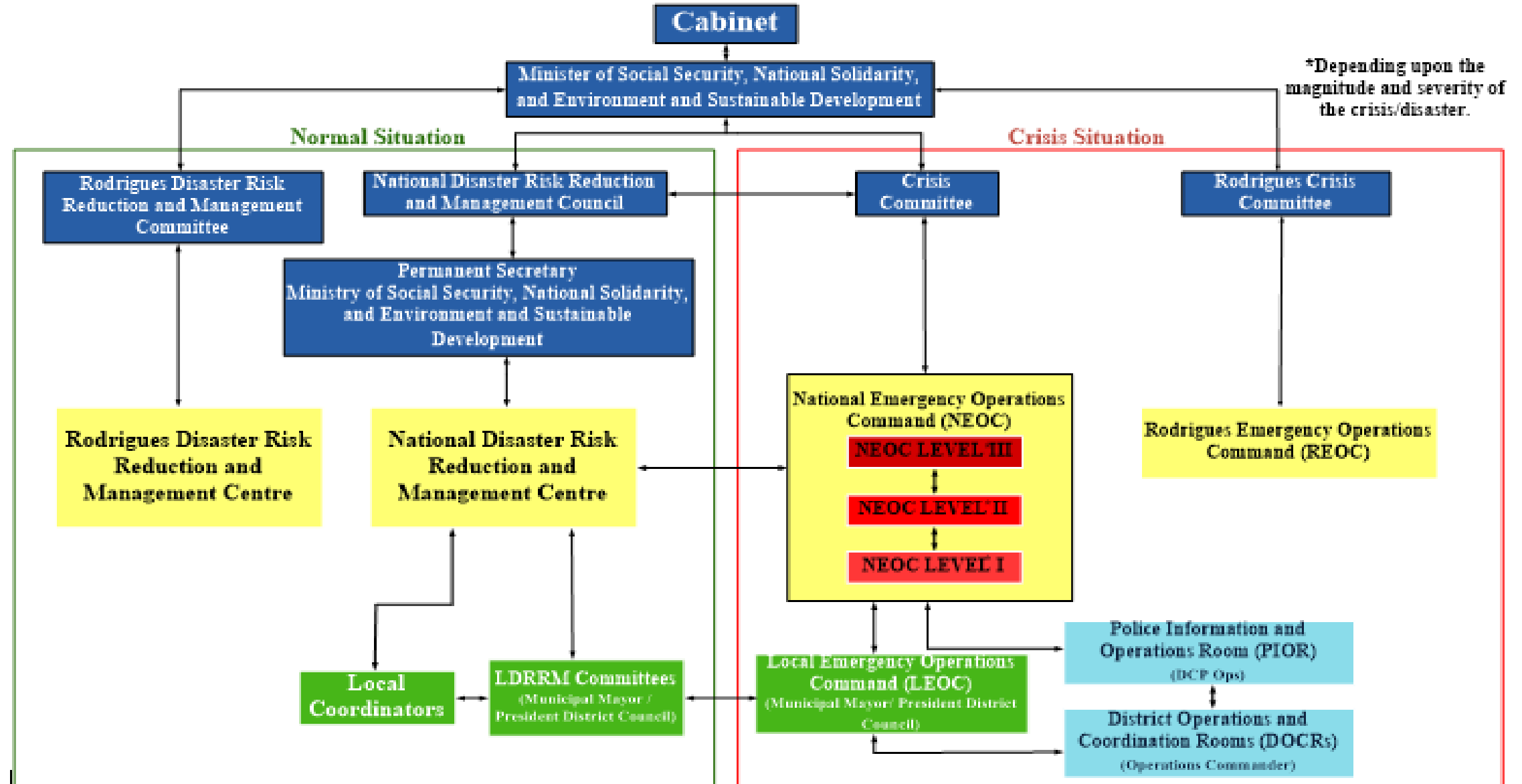
Flash Flood in Port Louis



153 mm of Rainfall in 2 hrs = 11 lost of lives



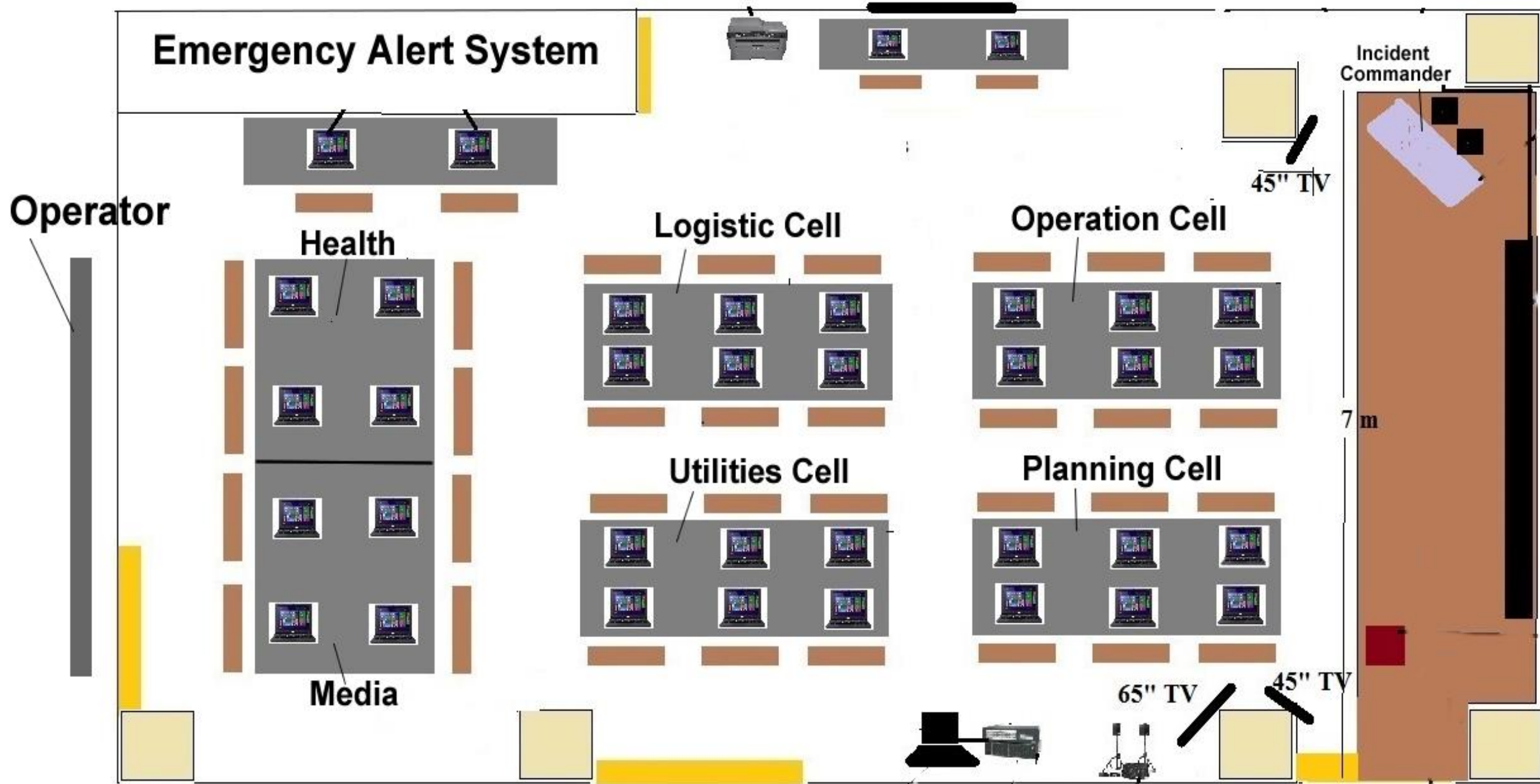
Disaster Management Structure



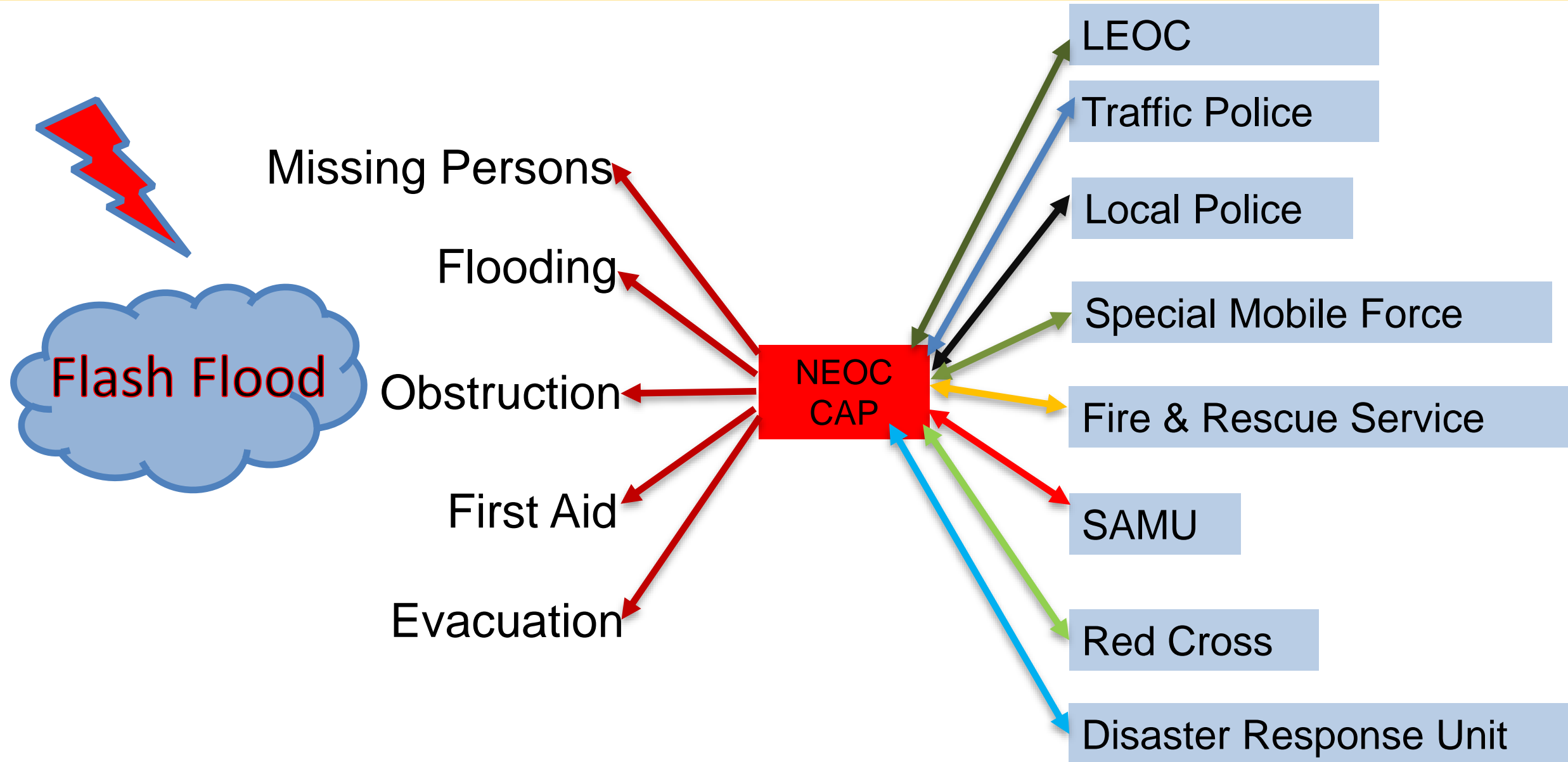
National Emergency Operations Command



ICS – Incident Command System



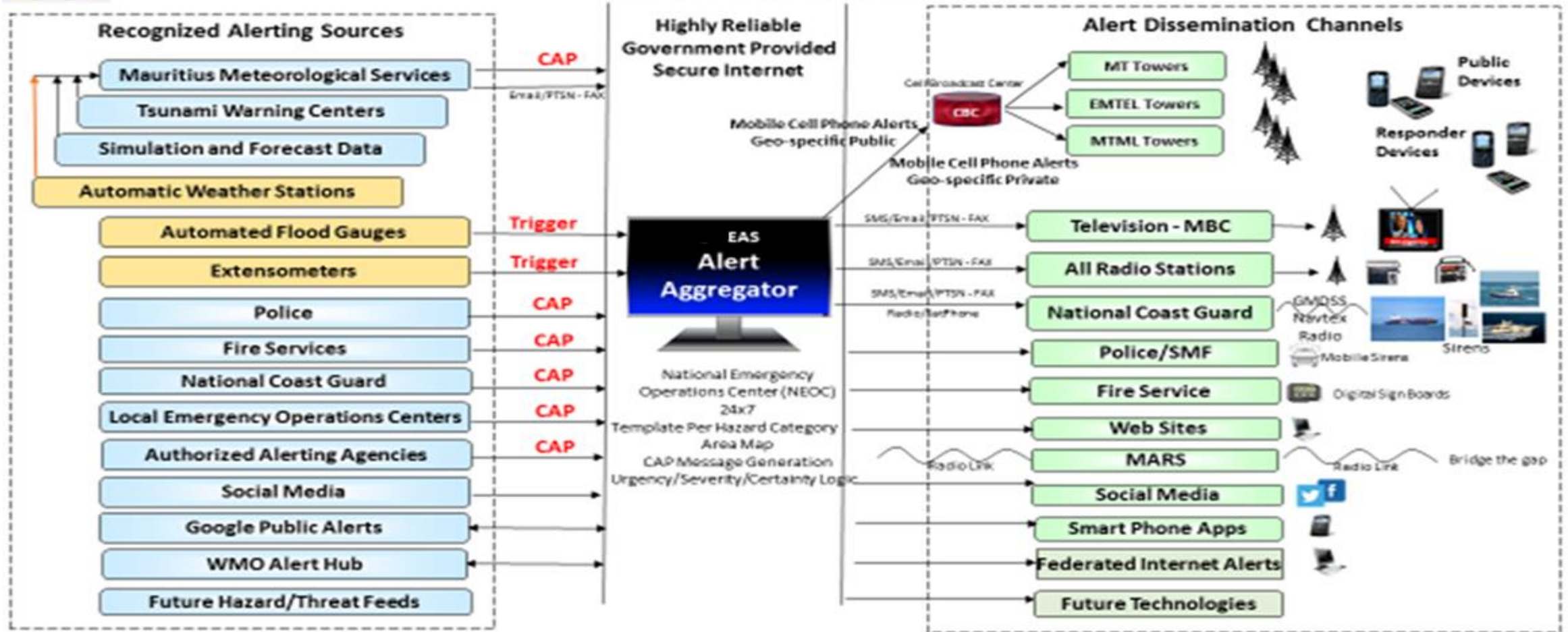
Effective and Structured Communication



National Multi-Hazard Emergency Alert System



EAS Architecture

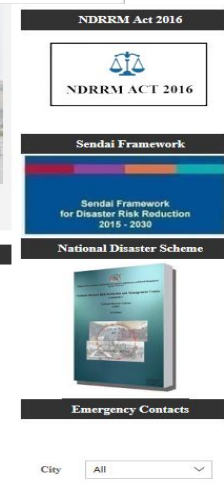
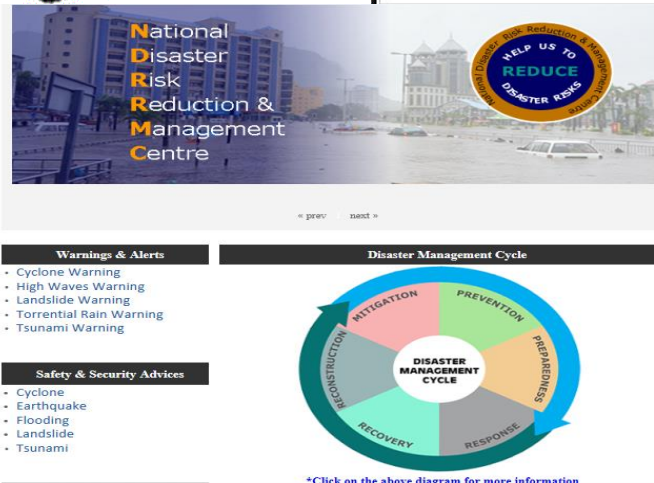
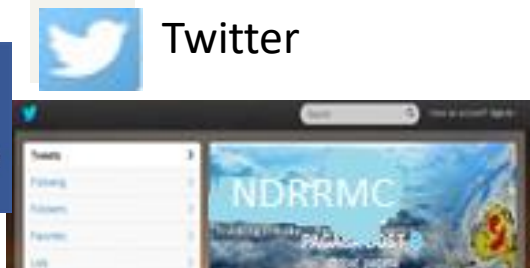


Input Interfaces

Logic of message
Processing within
the EAS server

Dissemination
Methods

MEDIUM OF COMMUNICATION & DISSEMINATION



Emergency Alert App

Issue real-time information, alerts, warnings and advisories to the general public and key stakeholders in times of emergencies and disasters.

Downloadable free on PlayStore and App Store

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MyT weather

Private Public Partnership with 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



Use of ICT in Disaster Management

1. Storm Surge Early Warning System – 3D/6H
2. Automatic Weather/ Rainfall Stations
3. MESA Flood Service
4. Satellite Phones/ BGAN
5. Landslide Warning System
6. Mobile Command Post
7. Drone

Use of ICT in Disaster Management

1. Emergency Alert System – CAP Aggregator
2. SAFE City Project - Call Handling and Dispatching, CCTV Live Streaming, Disaster Management Module, Decision Support System
3. Cell Broadcast System
4. Flood Monitoring and Warning System
5. IoT Sensors
6. Cube SAT

Some other important preparedness measures



Republic of Mauritius

Protocol on Heavy Rainfall for the Public Sector



Ministry of Civil Service and Administrative Reforms
...for a professional public service committed to excellence





Thank You