National Early Warning Network

Submitted by: Peru

APEC Resilience Week
Taipei, Chinese Taipei
30 September - 2 October 2019

National Early Warning Network

National Institute of Civil Defense of Peru

- 25 regions + Lima Province
- 196 provinces
- 1,874 districts

Heavy rain

Flood

Drought

Low temperatures, frost, hail, snow

Earthquake

Tsunami

Landslide

Mudslide

Volcanic activity

...

0   20km

High frequency

Multiple types

Regional discrepancy

National System for Disaster Risk Management

"(...) an inter-institutional, synergic, decentralized and participatory system, with the aim of identifying and reducing the risks associated with hazards or minimizing their effects, as well as avoiding the generation of new risks, and preparing for and dealing with disaster situations by establishing the principles, policy guidelines, components, processes and tools of Disaster Risk Management."

Law 29664 (2011)

Unplanned urban expansion

Scattered rural populations

Scattered rural populations

Climate Change

Yanamarey Glaciar (Ancash)

1982   **1987**   **1997**   **2003**   **2005**

REGULATORY FRAMEWORK

Supreme Decree No. 048-2011-PCM

Regulation of Law No. 29664 that creates SINAGERD

Article 44. National Early Warning Network

44.1 INDECI establishes the National Early Warning Network based on the participation of scientific technical entities and universities.

Ministerial Resolution No. 173-2015-PCM

Guidelines for the Formation and Operation of the National Early Warning Network and the Formation, Operation and Strengthening of Early Warning Systems

II. OBJECTIVE

Establish the guidelines that allow the implementation of the National Early Warning Network and the formation, operation and strengthening of Early Warning Systems at the three levels of government, community organizations, and private sector.

Early Warning System (EWS)

An EWS is the set of articulated capacities, instruments and procedures to generate and disseminate alert information in a timely manner, in order to allow people, communities and organizations exposed to hazards to prepare and act in an appropriate and anticipated manner to reduce or avoid loss of life.

Components

Risk Knowledge	Monitoring and Alert	Difussion and Communication	Response capacity
✓ Technical and scientific ✓ Regional, local and tradictional	✓ Technical-scientific agencies ✓ Emergency Operations Centers	✓ Clearly broadcast alert / alarm messages ✓ Multiple broadcast channels	✓ Contingency plans ✓ Drills, workshops ✓ Organized population
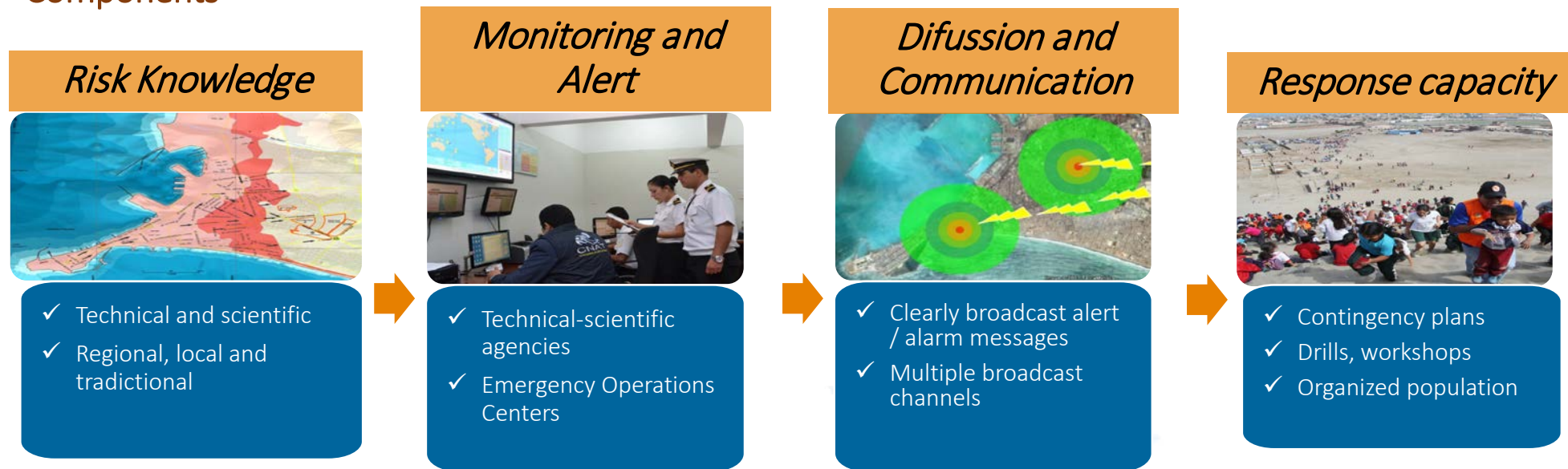
INFORMATION MANAGEMENT

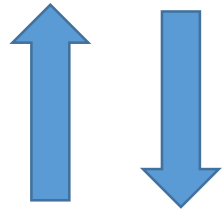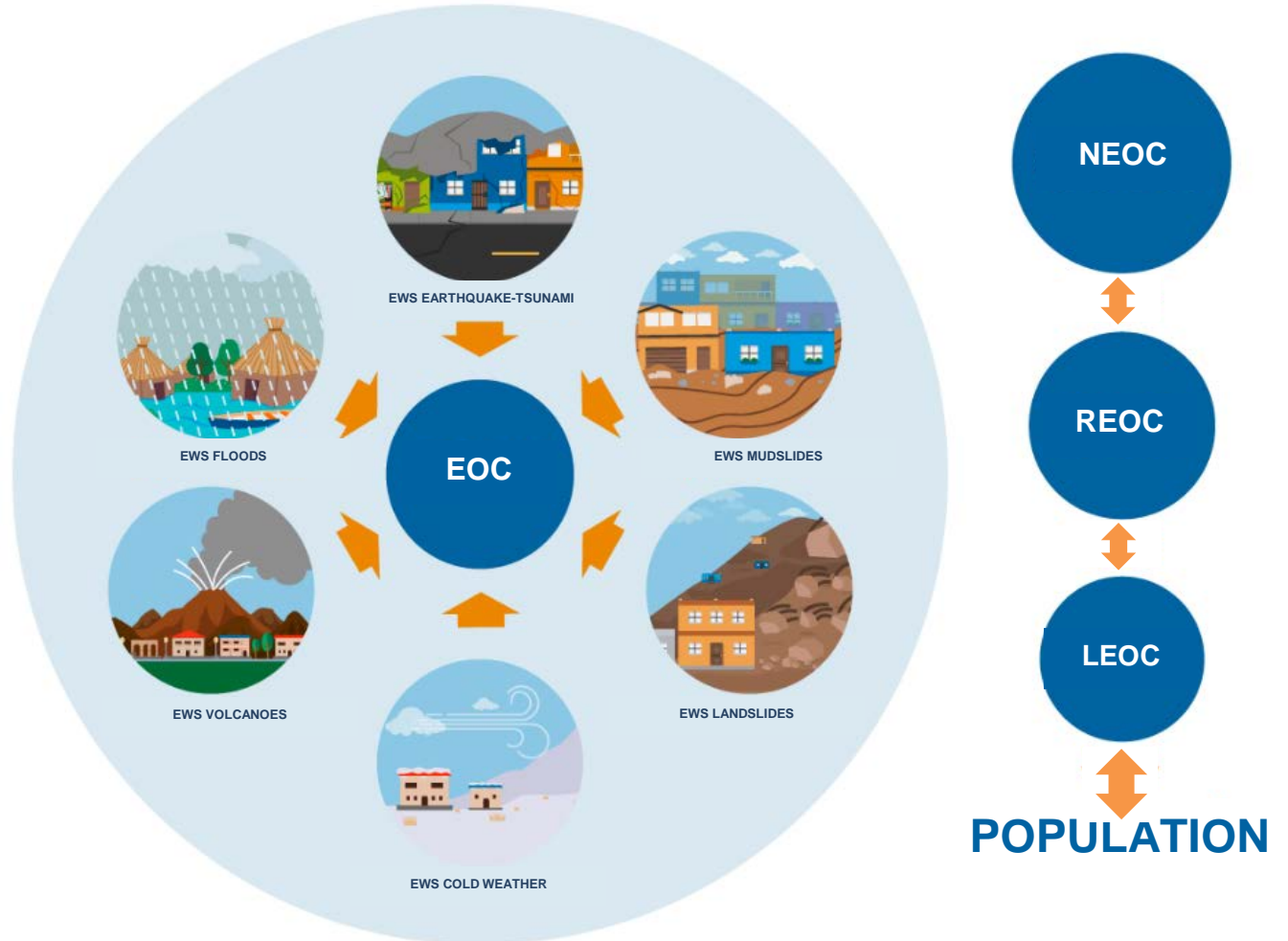The respective EOC manages the alert or alarm information in its jurisdiction; from generation to diffusion.

The National EOC manages all alert and alarm information nationwide.

EWS EARTHQUAKE-TSUNAMI

EWS MUDSLIDES

EWS FLOODS

EOC

EWS LANDSLIDES

EWS VOLCANOES

EWS COLD WEATHER

NEOC

REOC

LEOC

POPULATION

The National Early Warning Network is the articulated organization of EWS at the community, district, provincial, regional and national levels.

It must contemplate:
- ✓ Governance and effective institutional arrangements (coordination and vertical and horizontal communication)
- ✓ Multi-Hazard Approach
- ✓ Participation of local communities
- ✓ Consideration of cultural diversity

The National Early Warning Network operates through a Technical Coordination Committee, chaired by INDECI.
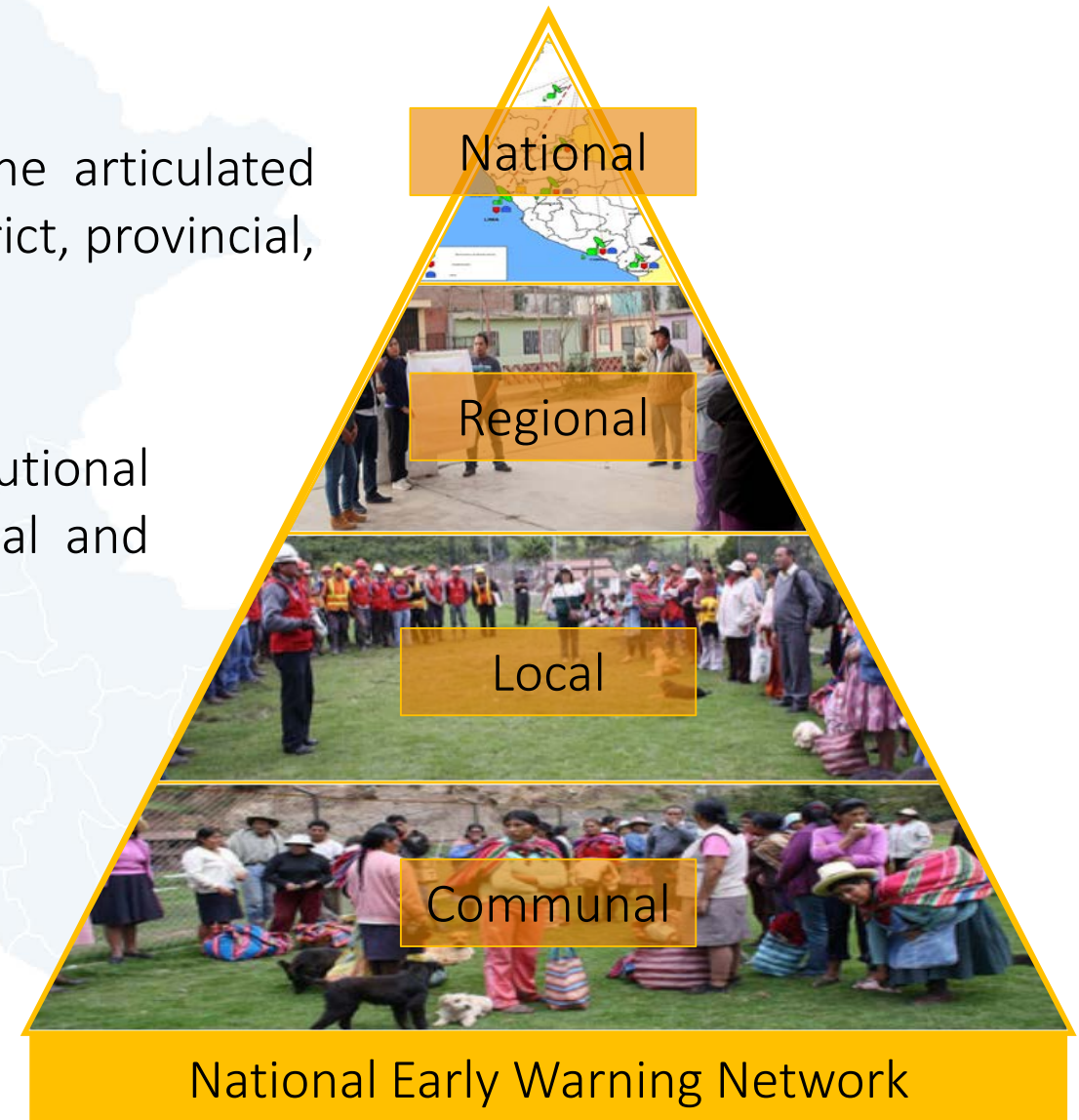
National

Regional

Local

Communal

National Early Warning Network

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Technical Coordination Committee

ACTION PLAN

→ Assessment of early warning systems nationwide to identify gaps and determine strategies.

→ Inter-institutional protocols for the generation and dissemination of alert and alarm messages.

→ Implementation of the National Early Warning Network integrated platform.

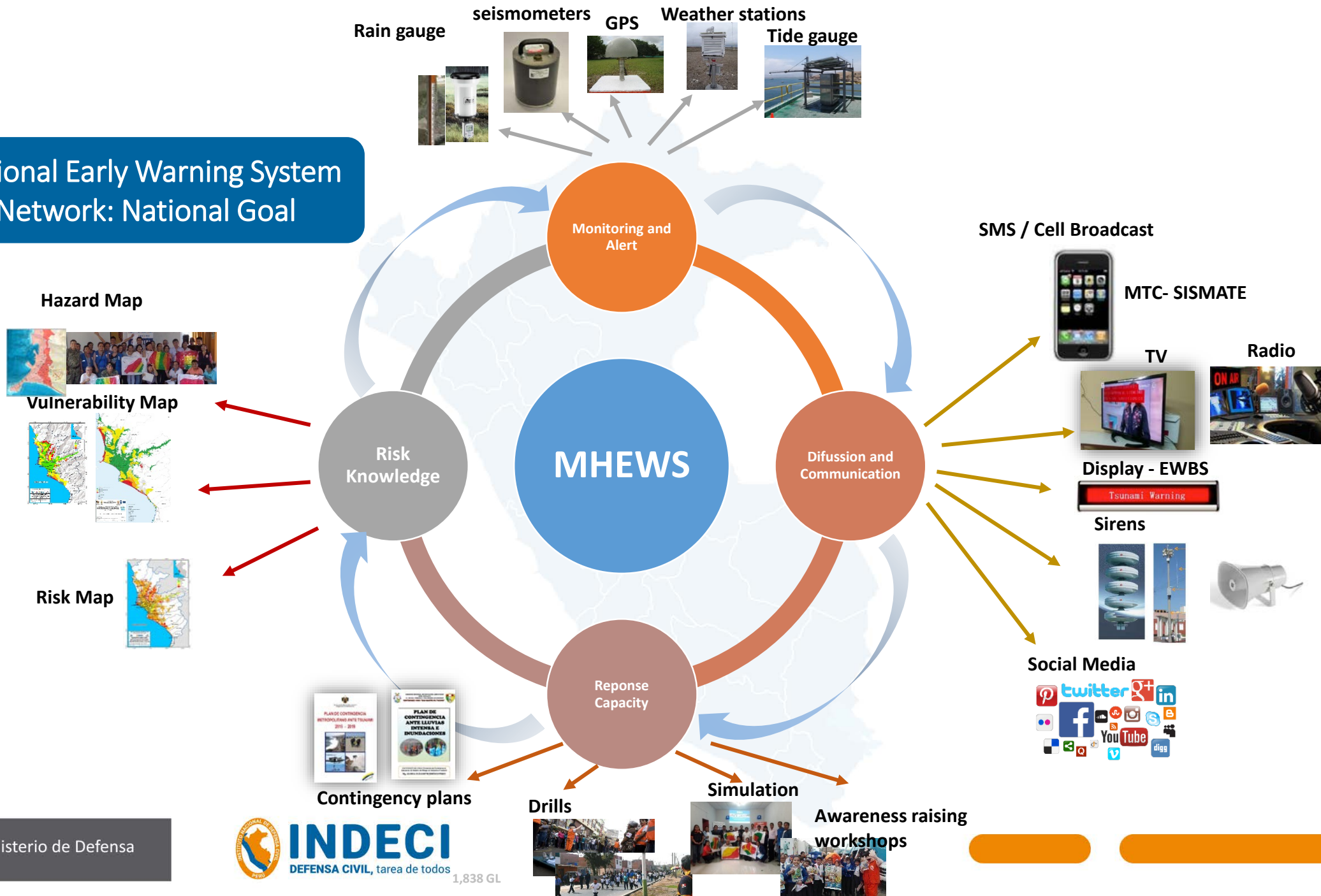→ Identification and implementation of EWS projects.

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National Early Warning System Network: National Goal

seismometers
GPS
Weather stations
Rain gauge
Tide gauge

Monitoring and Alert

SMS / Cell Broadcast
MTC- SISMATE
TV
Radio
Display - EWBS
Sirens
Social Media

Difussion and Communication

MHEWS

Risk Knowledge

Hazard Map
Vulnerability Map
Risk Map

Reponse Capacity

Contingency plans
Drills
Simulation
Awareness raising workshops

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