DSWD
Department of Social Welfare and Development

DSWD CLIMATE & HAZARD INFORMATION in SCALING UP SOCIAL PROTECTION PROGRAMS

Dir. Clifford Cyril Y. Riveral
Disaster Response Management Bureau
[DRMB]

DSWD
Department of Social Welfare and Development

DRRM Programs and Projects

1. Prepositioning of standby funds and relief resources.
2. Mobilization of Quick Response Teams (QRT).
3. Emergency Cash Transfer
4. Risk Resiliency Program for Climate Change Adaptation and Mitigation (RRP-CCAM).
5. Cash/Food-for-Work (C/FFW).

DSWD
Department of Social Welfare and Development

DRRM Programs and Projects

6. Data and information management

7. Disaster Vulnerability Assessment and Profiling Project (DVAPP)

DROMIC
DROMIC.DSWD.GOV.PH

DSWD
Department of Social Welfare and Development

DROMIC
DROMIC.DSWD.GOV.PH

DISASTER RESPONSE OPERATIONS MONITORING AND INFORMATION CENTER

1. 24/7 disaster monitoring and disaster data management.
2. Central repository of all DRRM data and information of the Department.
3. Prepares Predictive Analytics for Disaster Response (PAHR)
4. Generates and analyzes data and information for affected areas and population, evacuation centers, damaged homes, relief aid, etc.

DSWD
Department of Social Welfare and Development

PREDICTIVE ANALYTICS

FOR HUMANITARIAN RESPONSE (PAHR)

- ➔ Making predictions on potential disaster events to prepare humanitarian response using mathematical theories, scientific processes, and spatial technologies.
- ➔ A tool used by the DSWD as basis for the prepositioning of goods to regional stockpiles since 2016.

DSWD
Department of Social Welfare and Development

PAHR Process Flow

LPA Enters PAR / There is significant amount of rainfall detected by PAGASA for the next 3 days.

→

PAGASA sends rainfall data to DSWD.

→

Rainfall data is processed and overlayed to existing DSWD hazard and exposure maps.

→

DSWD DROMIC Preparedness Report is created and released containing PAHR.

DSWD
Department of Social Welfare and Development

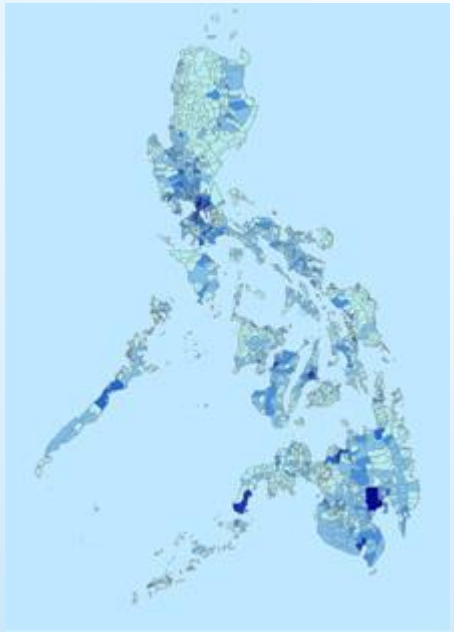
"Static" Data

Dynamic Data

GEOHAZARDS
(DENR-MGB [Landslide Susceptibility], UP-NOAH [Flood Susceptibility])

Hazard

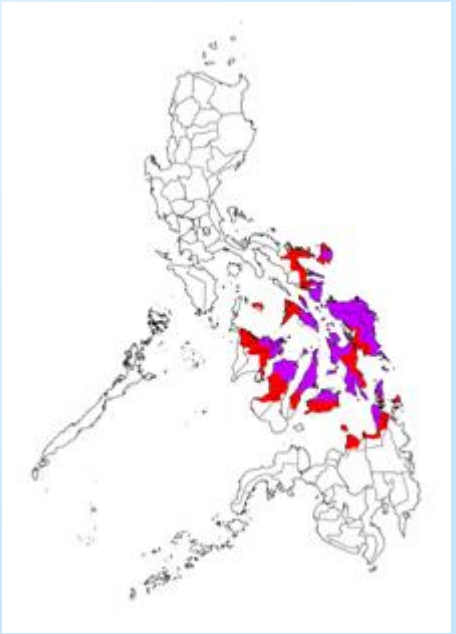
POPULATION AND POOR POPULATION
(PSA & DSWD)



POPULATION DISTRIBUTION
(Data interpolation from satellite data)

Exposure

RAINFALL DATA (WRF & GSM)
(PAGASA

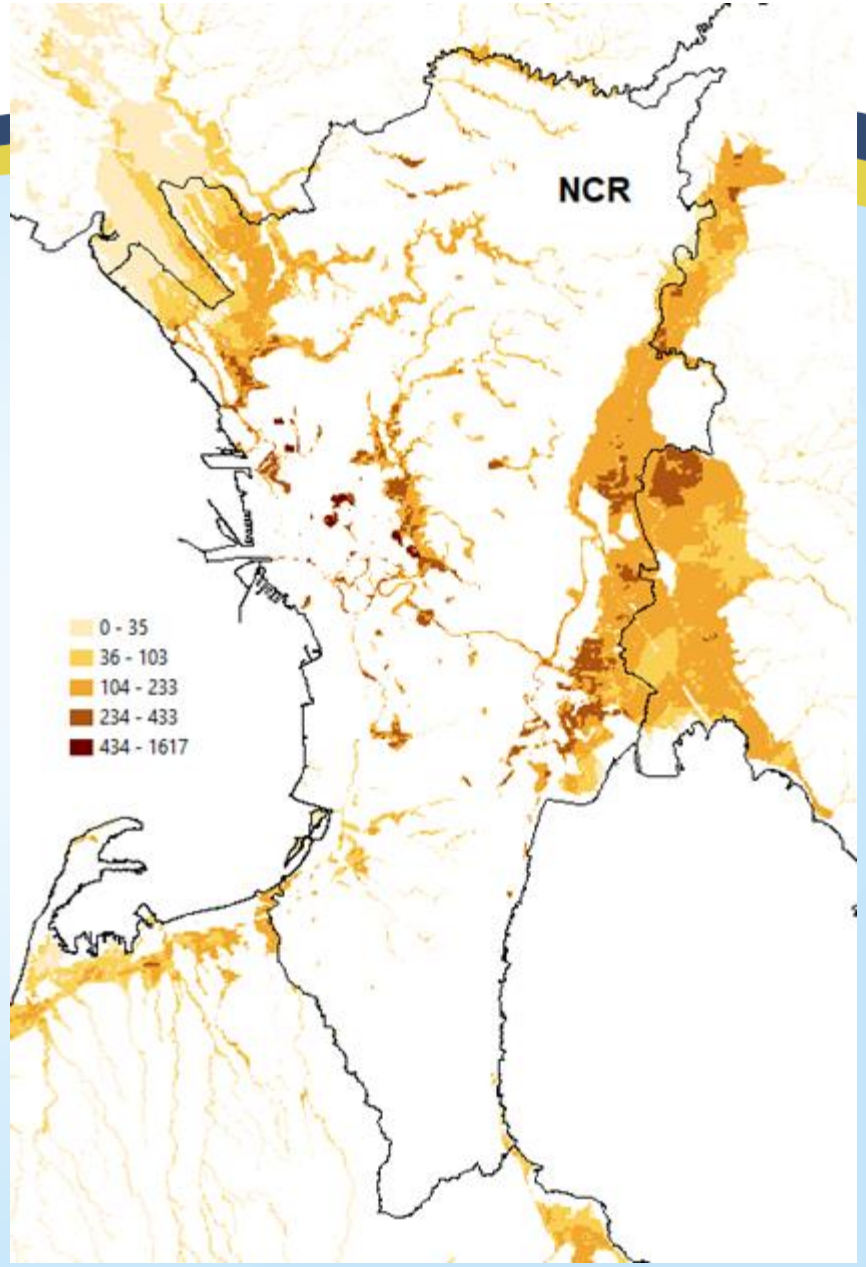


Hazard

DSWD
Department of Social Welfare and Development

PAHR Static Data

- ★ This is the data where rainfall data by PAGASA is overlayed to.
- ★ Composed of Flood and landslide susceptibility, population, and population distribution data.
- ★ Does not use politically-aggregated boundaries. Instead, boundaries were created using spatial interpolation of satellite image with population data as reference.



Number of people in NCR susceptible to flooding

DSWD
Department of Social Welfare and Development

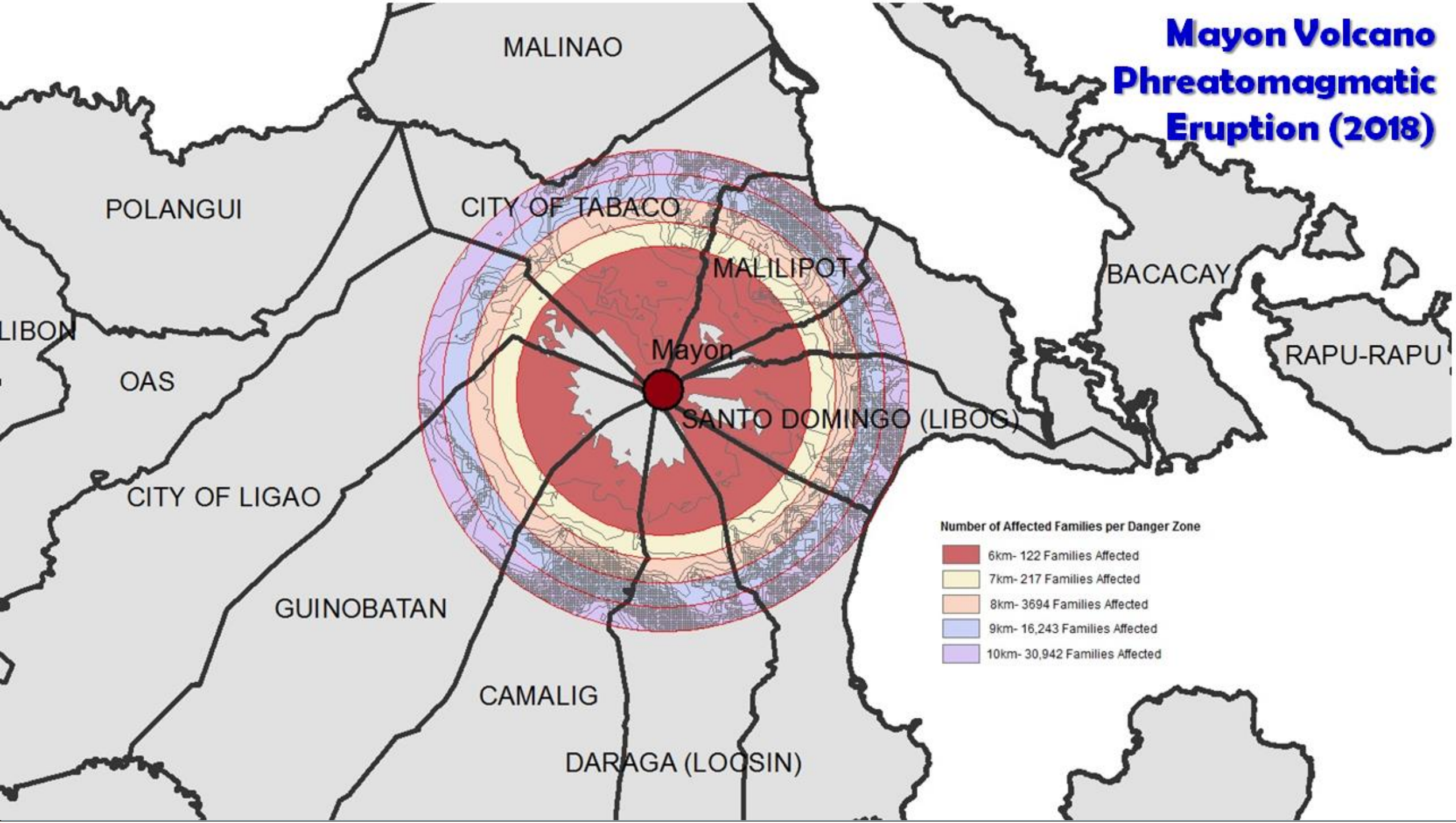
REGIONS THAT WILL RECEIVE AN ACCUMULATED RAINFALL OF AT LEAST 100 MM FOR THE NEXT 72 HOURS AND THE POPULATION EXPOSED

REGION	POPULATION (PSA)	FFPs REQUIRED	FFPs COST (@ PHP 360.00)
GRAND TOTAL	4,274,464	853,453	307,243,080
REGION I	136,233	27,200	9,792,000
REGION III	1,088,592	216,890	78,080,400
CALABARZON	739,452	147,523	53,108,280
NCR	2,057,894	411,428	148,114,080
MIMAROPA	252,293	50,412	18,148,320

DSWD
Department of Social Welfare and Development

REGIONS THAT WILL RECEIVE AN ACCUMULATED RAINFALL OF AT LEAST 100 MM FOR THE NEXT 72 HOURS AND THE POOR FAMILIES EXPOSED

REGION	POOR FAMILIES (DSWD)	FFPs REQUIRED	FFPs COST (@ PHP 360.00)
GRAND TOTAL	44,918	44,918	16,170,480
REGION I	5,023	5,023	1,808,280
REGION III	8,172	8,172	2,941,920
CALABARZON	4,903	4,903	1,765,080
NCR	8,613	8,613	3,100,680
MIMAROPA	18,207	18,207	6,554,520

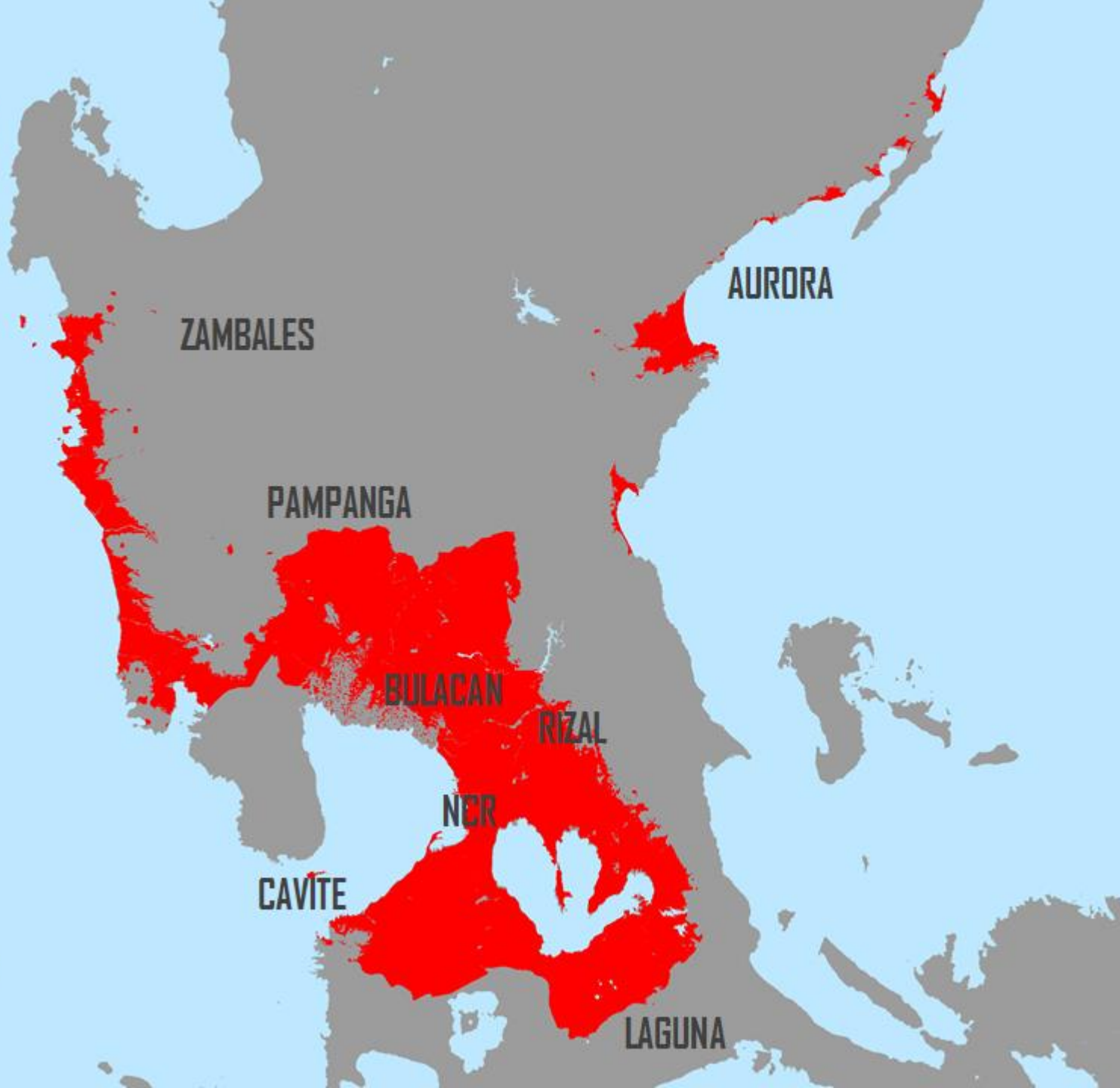

Mayon Volcano
Phreatomagmatic
Eruption (2018)
MALINAO
POLANGUI
CITY OF TABACO
MALILIPOT
BACACAY
LIBON
Mayon
RAPU-RAPU
OAS
SANTO DOMINGO (LIBOG)
CITY OF LIGAO
GUINOBATAN
CAMALIG
DARAGA (LOCSIN)
Number of Affected Families per Danger Zone
6km- 122 Families Affected
7km- 217 Families Affected
8km- 3694 Families Affected
9km- 16,243 Families Affected
10km- 30,942 Families Affected

GROUND SHAKING

HOW MANY ARE EXPOSED?

PROVINCE	FAMILIES	POOR FAMILIES
GRAND TOTAL	5,828,967	179,176
NCR	2,570,188	83,946
CAVITE	732,983	13,092
BULACAN	646,909	14,436
LAGUNA	597,557	12,672
RIZAL	569,369	8,627
PAMPANGA	514,481	24,445
ZAMBALES	156,681	12,931
AURORA	40,799	9,027

DSWD PAHR on "The BIG ONE"



DSWD
Department of Social Welfare and Development

PROVINCE	POOR FAMILIES	FAMILY FOOD PACKS (@PHP360.00)
GRAND TOTAL	179,176	64,503,360.00
NCR	83,946	30,220,560.00
CAVITE	13,092	4,713,120.00
BULACAN	14,436	5,196,960.00
LAGUNA	12,672	4,561,920.00
RIZAL	8,627	3,105,720.00
PAMPANGA	24,445	8,800,200.00
ZAMBALES	12,931	4,655,160.00
AURORA	9,027	3,249,720.00

GROUND SHAKING

RELIEF REQUIREMENTS (POOR)

84K FFP

PHP 64.5M

FIRST 2 DAYS

DSWD PAHR on "The BIG ONE"

DSWD
Department of Social Welfare and Development

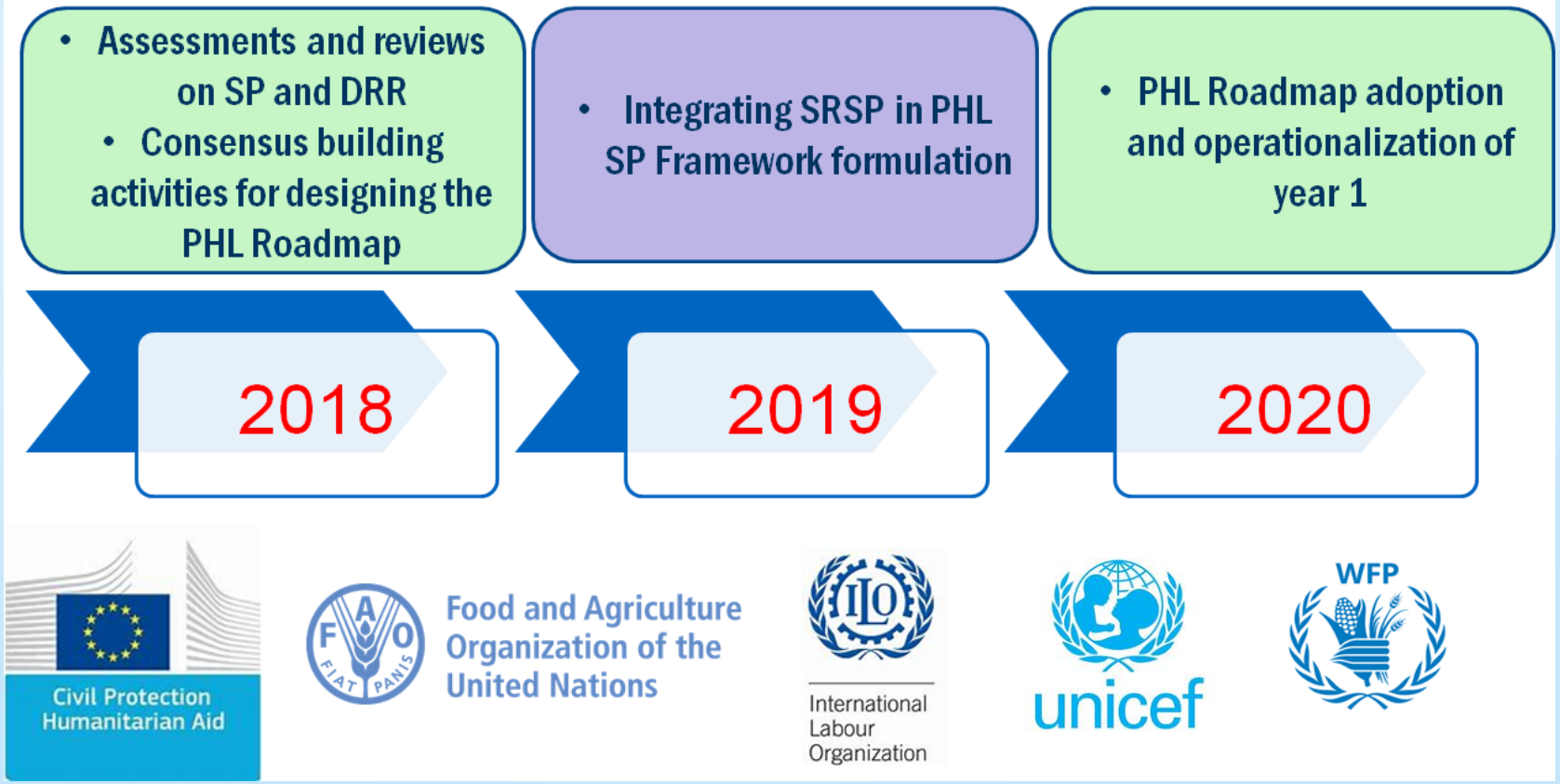
Social Amelioration Program

The Social Amelioration Program (SAP) is the cash emergency program of the agency to assist low-income families who were greatly affected by the community quarantine.

It has provided cash assistance to 17.6M families for the 1st tranche and 14M families for the 2nd tranche. (DSWD Agency Operation Center)

DSWD
Department of Social Welfare and Development

Implementation of the Roadmap on Shock Responsive Social Protection in the PH



DSWD
Department of Social Welfare and Development

Steps in Strengthening Anticipatory Action in DSWD

- Building internal capacities for using vulnerability and risk analysis to complement targeting and delivery of AAs and forecasts, early warning systems;
- Agree on a set of relevant anticipatory actions and provide guidelines on thresholds and triggers that will activate the AA within limited given lead time or window of action especially for fast-onset types of disasters;
- Development of the DSWD CARES Information System

DSWD
Department of Social Welfare and Development

Disaster Vulnerability Assessment and Profiling Project

★ Development of the DSWD CARES IS
(Comprehensive Assistance for disaster Response and Early recovery Services)

★ Establishment of database on the profile of families at the LGU level thru family profiling

★ Digitization of the old DAFAC of DSWD

➔Profiling of families' pre-disaster vulnerabilities.

➔Verification tool in claiming assistance for disaster response and recovery.

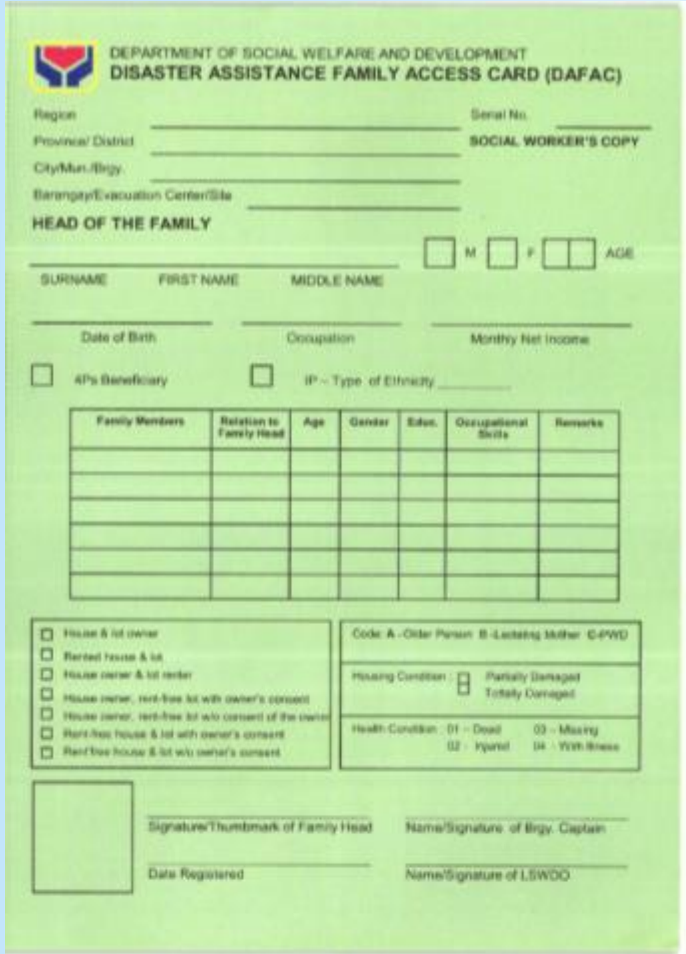
➔Managing fraud risks, abuses and wastage (with barcode and fingerprints)

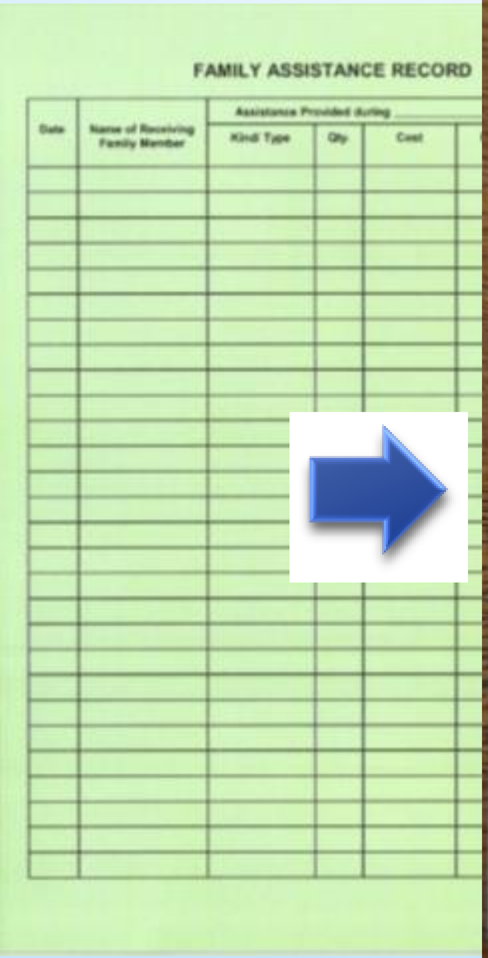
➔Recording and monitoring assistance accessed.

➔Forecasting needs

Department of Social Welfare and Development

Digitization of the DAFAC into DSWD CARES Card





DSWD
Department of Social Welfare and Development

Steps in Strengthening Anticipatory Action in DSWD

- Accessibility to the Quick Response Fund to ensure that it can be released in a timely manner using the existing delivery mechanisms;
- Close coordination with other government and non-government agencies, private organizations, and Humanitarian actors.
- Clear delineation of roles, guidelines, policies, and cluster coordination.

DSWD
Department of Social Welfare and Development

Thank you!