# Appendix-12: Supporting document for the DILG Manual

# Evacuation Planning for LGU level

**JICA Study Team** 

### Objective

- The contents of this presentation is to provide guidelines to assist the Local Disaster Risk Reduction and Management Officers (LDRRMO) in preparing evacuation plan from the LGU level.
- In behalf of the support from the LGU to the Barangay Level on evacuation planning, it is necessary that the LGU should aim community awareness if who are those needed to evacuate outside of their Barangays.
- From the experience of Typhoon Yolanda, it should be the LGU's duty to consider smooth and safe evacuation planning, especially if the whole area of the Barangay is affected. The community should have an idea on "Where to go" in case they need to evacuate.
- To address this situation, it is the LGU's obligation to prepare their evacuation plan that will serve as a guide for the barangay's evacuation plan.
- As a result, simple steps of evacuation planning for LGU level will be introduced in this power point presentation.

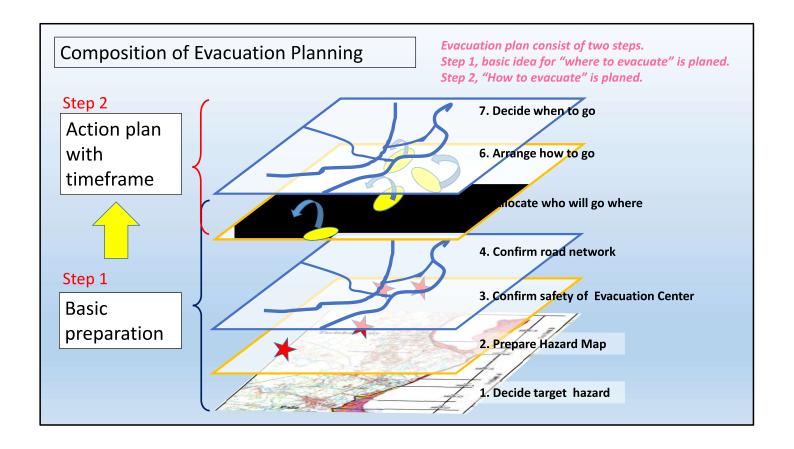
### Importance of Evacuation

Evacuation is the most effective precautionary measures for disaster survival.

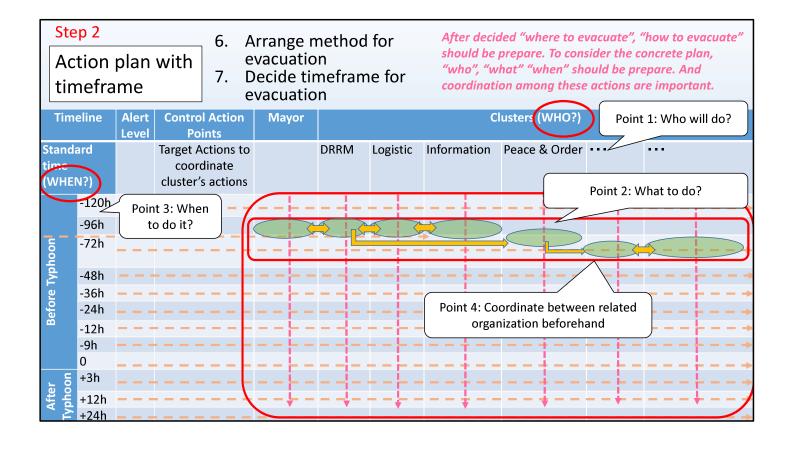
In case of large scale disaster, like Typhoon Yolanda, smooth evacuation is very important. Role of LGU

For smooth evacuation, each individual must know "how", "where" and "when" to go in times of disaster Massive evacuees will move in lesser timeframe, appropriate coordination should be prepared in advance.

Need to Prepare by LGU



# Step 1 Basic preparation 1. Decide target hazard 2. Prepare hazard map 2. Confirm safety of evacuation center 4. Confirm road network 5. Allocate evacuees to evacuation center (EC) Residential area Evacuees Evacuees 1. Decide target hazard 2. Through the process of 1 to 5, which barangay evacuate to which Evacuation center or barangay will be considered. Evacuation center (EC)



### Process of Evacuation Planning of LGU Level

### Step 1

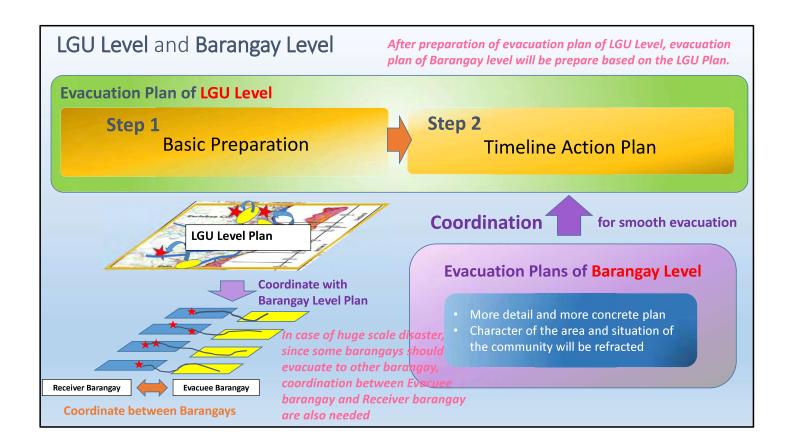
- 1. Decide target hazard
- 2. Grasp capacity of ECs in LGU
- 3. Estimate the number of evacuee's in each Barangay
- 4. Confirm the location of ECs on the hazard map
- 5. Consider allocation of evacuees to Evacuation Center, and confirm on the map
- 6. Show the LGU's evacuation policy to the Barangays
- 7. Designate BRGYs which need to evacuate outside of their BRGY
- 8. Coordinate evacuee BRGYs and Receiver BRGYs

We call this part as

### Step 2 "Timeline Action Plan"

- Confirm required roles and activities before, during and after calamity
- 10. Confirm the relationship of each Clusters
- 11. Show control action points
- 12. Prepare action plan of DRRM and Logistic cluster based on the control action points
- 13. Prepare action plans of each cluster based on the DRRM and Logistic cluster
- 14. Coordinate all action plans

**Coordination with BRGY evacuation plans** 



# STEP 1 Basic Preparation

### 1-1. Decide Target Hazard or Natural Phenomenon

- I. Confirm character of hazards in the LGU

  Using hazard map or disaster historical map etc., the hazard character such as frequency, impact, affected area etc. are organized from the view of LGU.
- II. Decide target hazard for evacuation planning

  Prioritize hazard for evacuation plan.

  For LGUs, evacuation plan should focus on the hazard that will have huge impact on the community and majority of the Barangay might be affected.

## 1-2. Sample of "Confirm Character of Hazards in the LGU"

2. Sample of Committee Character of Hazards III the 200											
Hazard	Flood	Storm Surge	Land slide	Tsunami							
Image											
Character	<ul> <li>Inundation area is huge but the depth is almost less than 1 m</li> <li>The water subside mostly within 24 hours except some areas</li> </ul>	<ul> <li>Coastal barangay inundate wide and deep</li> <li>Poblacion area including municipality hall also inundated</li> </ul>	<ul> <li>Hilly area exist in the municipality</li> <li>Since steep slope also exist, there is risk for landslide</li> <li>Landslide had occurred last Dec. 2014 during typhoon Senyang.</li> </ul>	- According to the inundation map by READY Project, inundation area is smaller than storm surge, but time for evacuation is very short.							
Hazard map			NO ROCKES LADOLAS RAP  MINISTER  MIN								



1-3	3. Sample of "De	ecide Hazards ir	the LGU", Leyte	e and Samar Cases			
	Tacloban •hazard map Storm Sage	Basey • hazard map Storm Sage	Guiuan •hazard map: Tsunami				
	Palo hazard map Storm Surge Flood	<ul> <li>Characteristics</li> <li>Municipalities of Palo and Tanauan took the precautionary measures against storm surge and frequent flooding, which occur every year with serious damages.</li> </ul>					
	Tanauan  hazard map  Storm Surge  Flood	·	hazard map, due t	evacuation plan is based to the damage seemed			

### 2-1. Grasp Capacity of Evacuation Center

To begin with, safety of the evacuation centers are confirmed

- Safety against hazards
- · Structure of the building
- Number of stories of the building
- Capacity that can be accommodated in the ECs

1. Selection Englander tentene safety

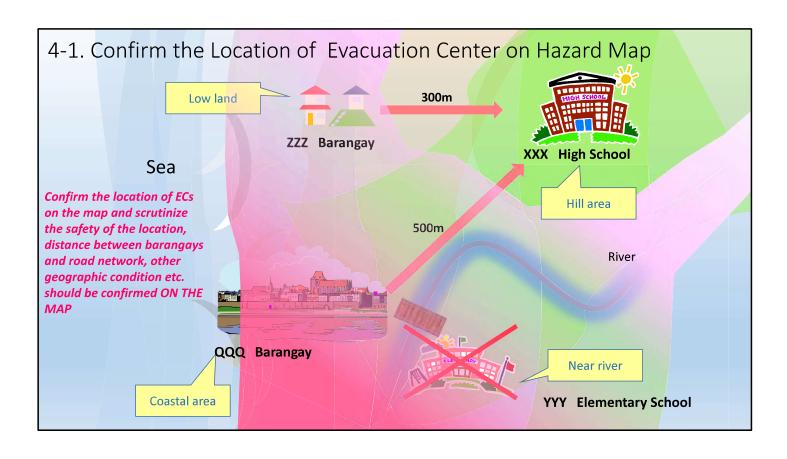
				<del>,</del>								
Nia	Franchise Control	S	Safety aç	gainst Ris	sks	Structo	ure of the	Building	No. of	Capacity of Persons	Evaluatio n	Remarks
No.	Evacuation Center	Flood	Storm Surge	Tsunami	Landslid e	Steel	Concret e	Lumber	Stories			
TAN- 001	XXX High School	No	No	No	No	Yes	Yes	Yes	3	1500	ОК	Sample
	YYY Elementary School	Yes	Yes	Yes	No	Yes	Yes	No	1	100	No	Sample

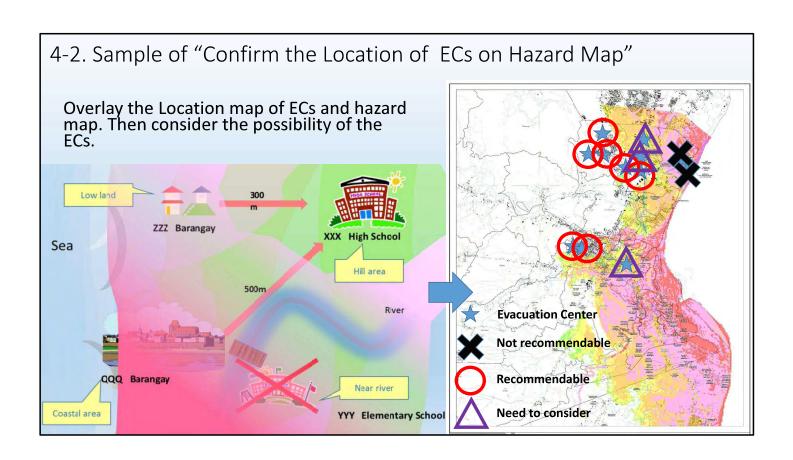
### 3-1. Barangay's Estimated Evacuees

Thereupon, to come up with an estimate number of evacuees from the LGU to grasp the scale of evacuation

- Total population
- Percentage of hazard area
- Compute the number of evacuees
- 2. Estimation of Evacuee No. of Barangay

	No.	Parangay	Total Population Flood Storm Surge	rd Area (%)		Estimated No.of Evacuees		
	IVO.	Darangay			Storm Surge	Tsunami	Max %	(Pop×Max %)
	1	ZZZ	700	30.0%	60.0%	40.0%	60.0%	420
	2	QQQ	1500	20.0%	100.0%	90.0%	100.0%	1500





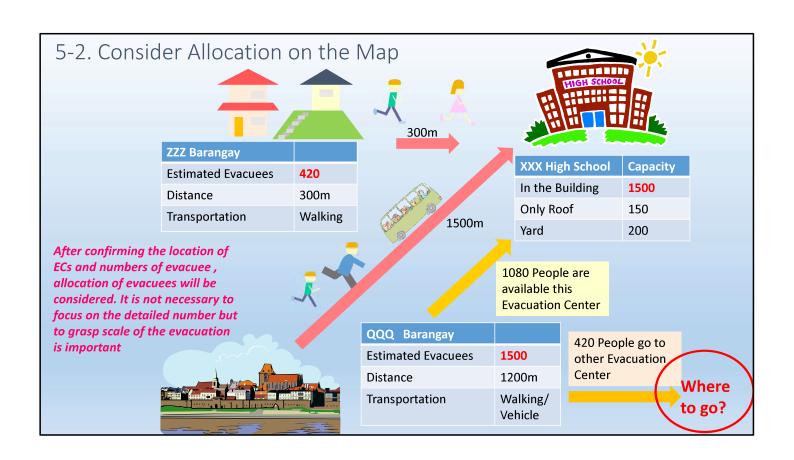
### 5-1. Consider Allocation of Evacuees to Evacuation Centers

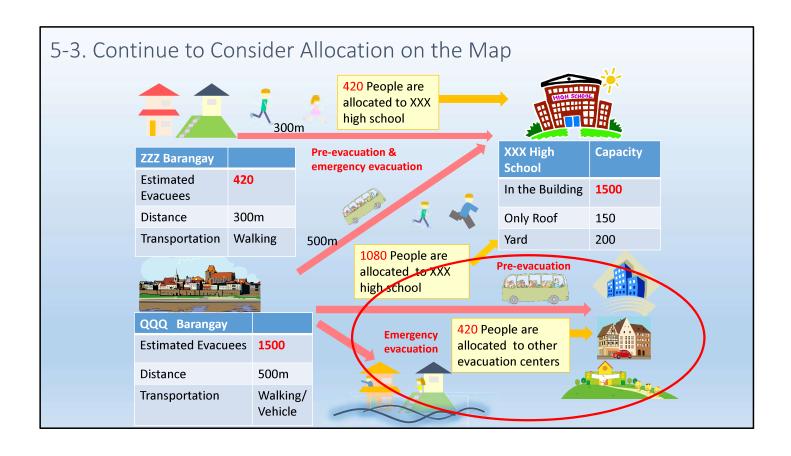
### Allocate evacuees to the ECs

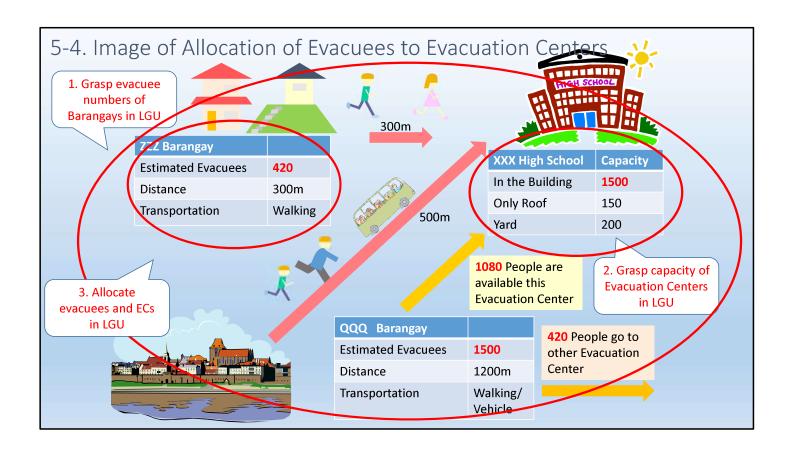
- Check the distance
- Compare the capacity of ECs and number of evacuees in Barangay
- Consider the distribution of evacuees

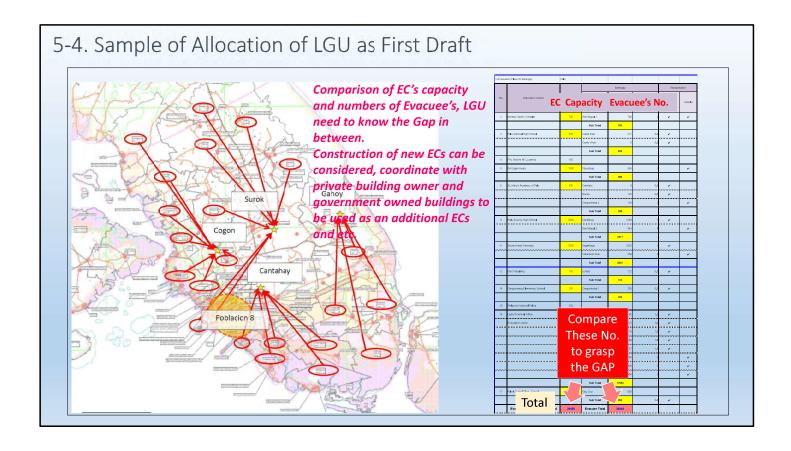
### 3. Evacuation Place for Barangay

	No.		Canacity		Barangay		Transportation Nee	Needs fo	Needs for consideration			
		Center	Capacity of Persons	Name	No. of Evacuees	Distance (km)	Walking	Vehicle	Provide Transportation	Emergency evacuation	Others	Evaluation
Ī	TAN-001	XXX High School	1500	ZZZ	420	0.3	Yes	Yes	No	No		
				QQQ	1500	1.2	Yes	Yes	Yes	Yes		Find EC for 420 People





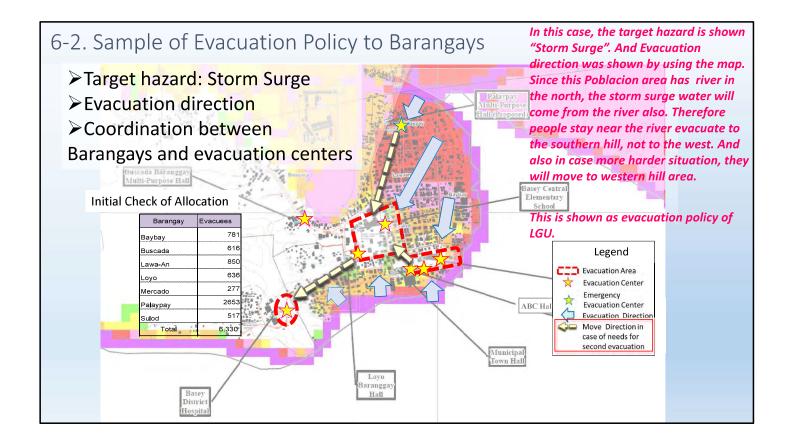




### 6-1. Show Evacuation Policy of LGU to Barangays

LGU need to show basic policy for evacuation, especially for the barangays whose people need to evacuate outside of their barangays

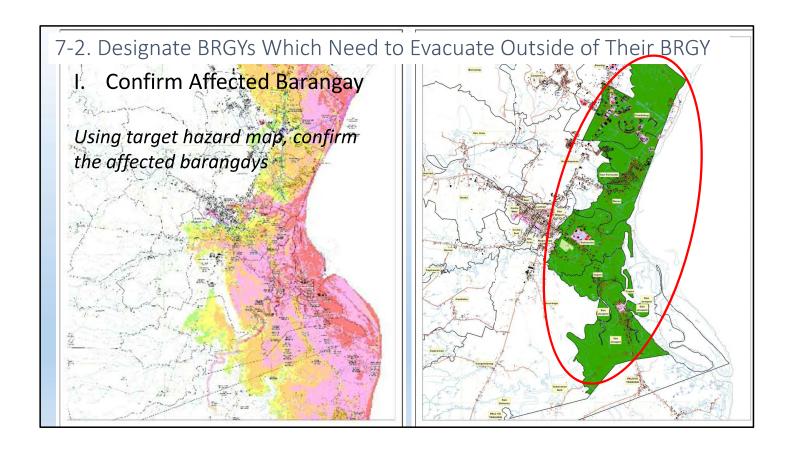
- Target hazard (priority of hazard) for evacuation planning
- Evacuation direction
- Coordination between Barangays and evacuation centers

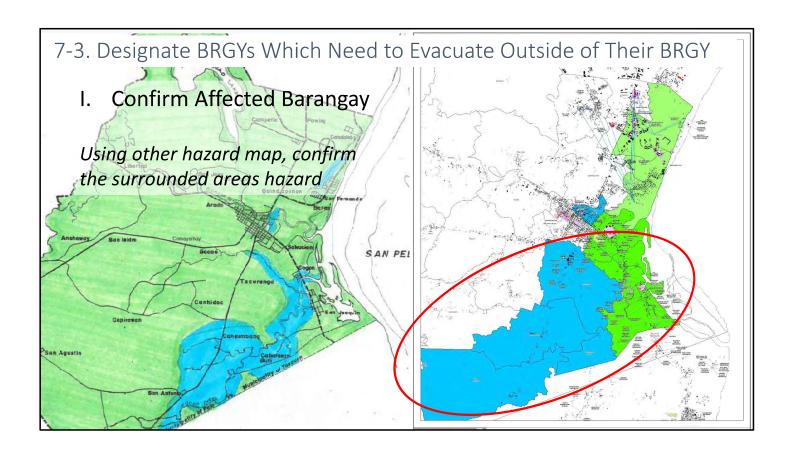


### 7-1. Designate BRGYs Which Need to Evacuate Outside of Their BRGY

LGUs should envision the evacuation planning and will serve as a guide to the Barangay level.

- Based on the target hazard map, confirm affected Barangays.
- II. Considering other hazard areas, <u>designate</u> Barangays which are needed to <u>evacuate outside of their Barangay</u>
- III. As the LGU, it is essential to support the Barangays through coordination between Barangay evacuees and receiver Barangays.



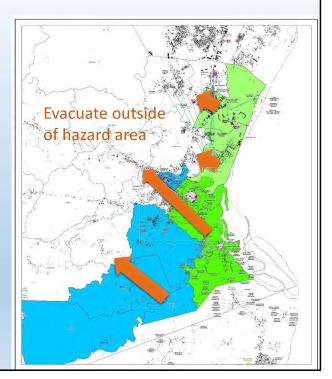


### 7-4. Designate BRGYs Which Need to Evacuate Outside of Their BRGY

### II. Designate Barangays

Designate Barangays whose people need to evacuate outside of their Barangays

Essentially, the people in the hazard area should evacuate outside of the hazard, specially those barangays that might be totally affected by the hazard. Affected Barangays should coordinate with the safer Barangays for evacuation policy. Before long, other hazard which has possibility of occurring simultaneously should be considered. In this case, storm surge and flood might occur at the same time, the coastal barangay and flood prone Barangays should be evacuated.

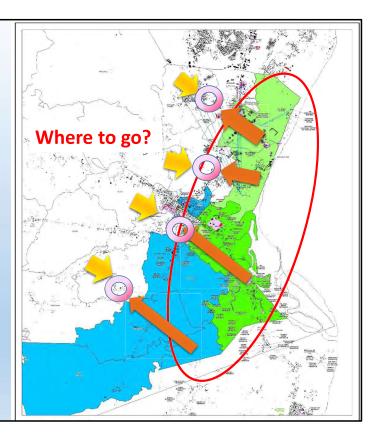


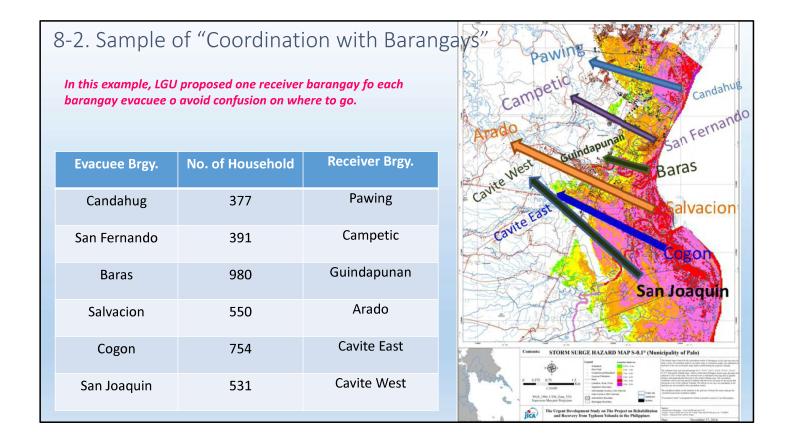
# 8-1. Coordinate evacuee BRGYs and Receiver BRGYs

### III. Barangay coordination

- LGU supports by coordinating in between the Evacuee Barangay and receiver Barangay
- LGU designates collaboration of the Barangays officially

After designation of the evacuee barangays, they need to find where to evacuate. Since they have to evacuate outside of their barangay, they need support from the LGU to find other barangay which can provide ECs for them. This coordination is the role of LGU. And the barangays agree the corporation, then it is recommended to have MOU officially.





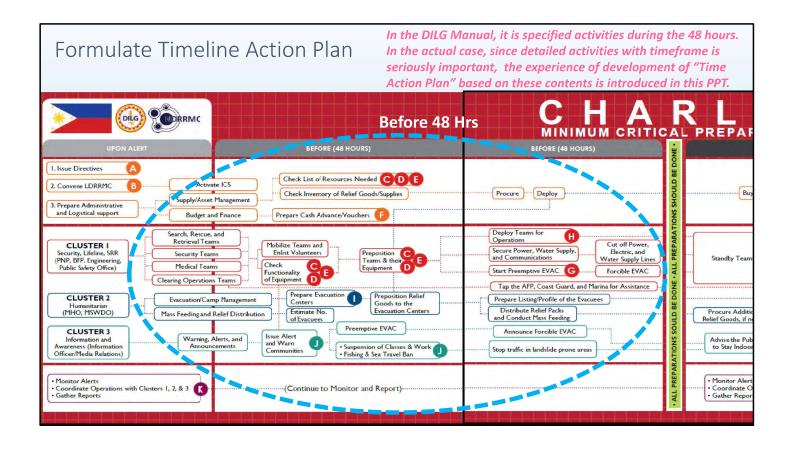
# STEP 2 Timeline Action Plan

### Importance of Timeline Action Pan

3 Important points to consider

- 1. Where to evacuate
- 2. Who will evacuate
- 3. Which evacuation center
- After preparing the list of the evacuation centers, next step is to identify the names of evacuees and their assigned evacuation center.
- This arrangement should be prepared by the Barangays to consider their situation.
- The role of the LGU is to formulate a plan on WHAT, WHO and HOW to support the community in smooth evacuation.





### What is the Timeline Action Plan?

### Objective

Establish systematic action plans to support smooth evacuation by visualizing actions thru timeframe

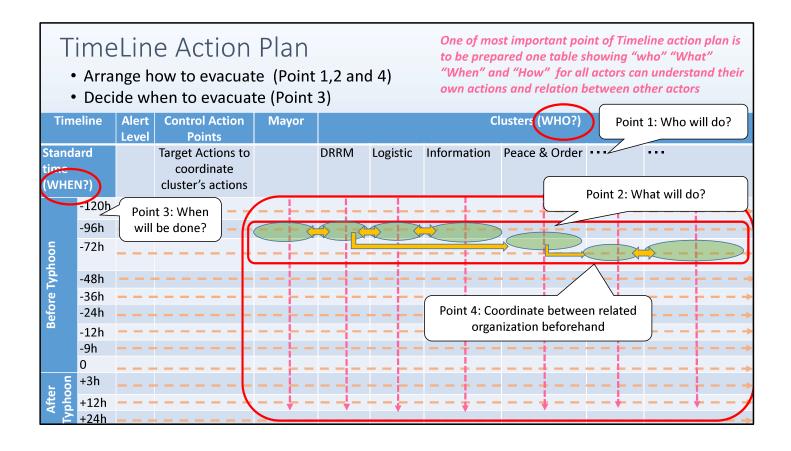
Since the timing of action will be clear, coordination of the actions among clusters will be easier

### Benefits of Timeline Action Plan

- Identify relation among each response group of actions by visualizing in one table;
- Utilize as checklist for each action;
- Make action without decision making;

Since those activities are confirmed beforehand, this would be useful as checklist

Since those actions are confirmed in advance among response group, each actor just follows the actions without waiting any decisions.



- 9. Confirm required role and activities during calamity
  - To comprehend smooth evacuation, it is needed to organize "who" will function and "how".
  - To classify above actions, it is necessary to make clear each roles and responsibilities and set their functionalities.
  - The roles and activities were adapted based on the activity list specified in the DILG Manual.

### 9-2. Sample of "Confirm required role and activities during calamity" General Roles and Responsibilities Monitor Alerts Coordinate operations with clusters Gather Reports Monitor Alerts Mayor In this case, the LGU Based on COMMUNICATION & CDRRM level has 12 clusters the existing Gather Reports 4. Issue heightening response and early wa MOTOR POOL, PRIVATE CON groups, the Logistics &TRANS, PROCUREMENT TACRU, BFP, TCPO, Greer Delta, Chamber and others, PARA, PRC, AFP, PCG, Co with this type of Report to command center and coordinat Report to the IC and provide updates Ensure safety and security of responders Directs and controls all rescue activities w roles is Search & calamity, roles and Rescue Preserves life though proper medical trea Organizes search and rescue committee Based on the Organizes search and rescue committee. Adopt the registration card system The overall responsible of addressing the Maintain liaison with the CDRRMC OPCE! Maintains peace and order in affected are: Provide security to identified evacuation ce quipment etc. responsibilities of each DILG manual, Peace & CLUSTER 1 clusters were confirmed contents of the Order Come up with a list of evacuation centers during the meeting. Organizes Peace and Order committee Organized Engineering and Reconstructing CITY HOUSING, CFO, CAO Shelter/ actors are CPDO, CEO CITY DILG, CSWD, CH a. Identify temporary mortuary facility, a place o. Ensures a plan for physical and psycholog arge number of corpses can have an enormou. 1. Coordinate the local officials and private sector-systemized course of action in relation to the move Infrastruct The LGUs has its own ure CSWD. BRGY AFFAIRS. CIT escue teams and equipment, and utility crew, transport of relief prohibition of facilities needed in the cluster with their rescued persons and/or evacuees, casualties, goods, medical supplies and basic commodities particular role, and it C. CAMP MANAGEMENT unters Assign evacuation centers, with info on capacity and catchment areas Assign personnel and volunteers per evacuation center (adopt the system used during

EMERGENCY SUPPORT FUNCTION (WHO?)

WASH, NUTRITION EMERGENCY, DISEASE PREV, MENTAL HEALTH, GAD

lections)
Organizes Relief Service committee
Facilitate systematic distribution of vehicles to the requesting party
prioritize vulnerable sectors

. pnortize vulnerable sectors Assist in matter related in the evacuation centers . Supervise the sanitary conditions of the community during and after an emergency . Ensures that the local health system are preserved and access to health care including frugs and vaccines is guaranteed . Provide medical treatment areas for victims of disaster

Monitor and isolate persons with communicable diseases
 Provide a Task Unit not involved in the preparation for the Papal Visit to facilitate Disaste

was confirmed that it

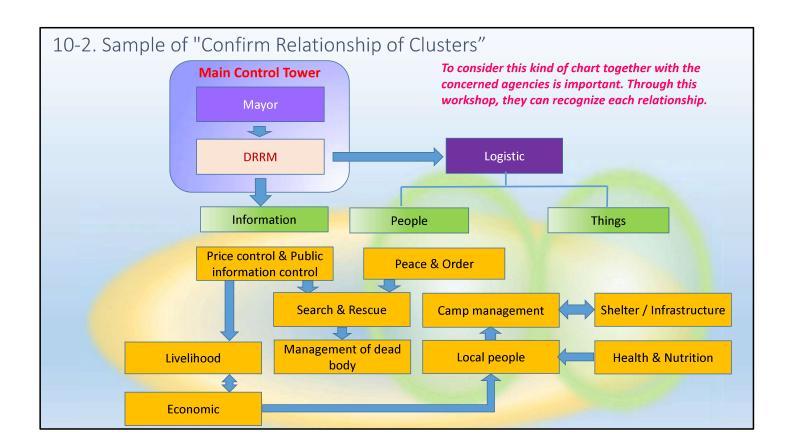
was utilized based on

their experience.

# 9-3. Sample of "Confirm required role and activities during calamity" Convene LDRRMC Activate ICS Q Clusters Security, Weline, SRR Search, rescue, and retrieval teams/ Sec **Activities** specified in the **DILG Manual** Roles of each The format was prepared to check which actor will take which activities. Amtur alerts porgitate operations with dissters 1, 2 & 3 hather reports

### 10-1. Confirm Relationship of Clusters

- To achieve good coordination among clusters for timeline action plan, it is important that cluster members need to understand relationship of each clusters
- To consider how to accomplish smooth mobilization of the "COMMUNITY, SUPPLIES and INFORMATION" is important.
  - ✓ Supplies means; food, vehicle, equipment, etc.
- Center of this structure:
  - ➤ DRRM as Control tower
  - Logistics as the management tower for mobilization of Community and supplies



### 11.-1 Set Control Actions

Control Action Point is an action associated to all the clusters with target time.

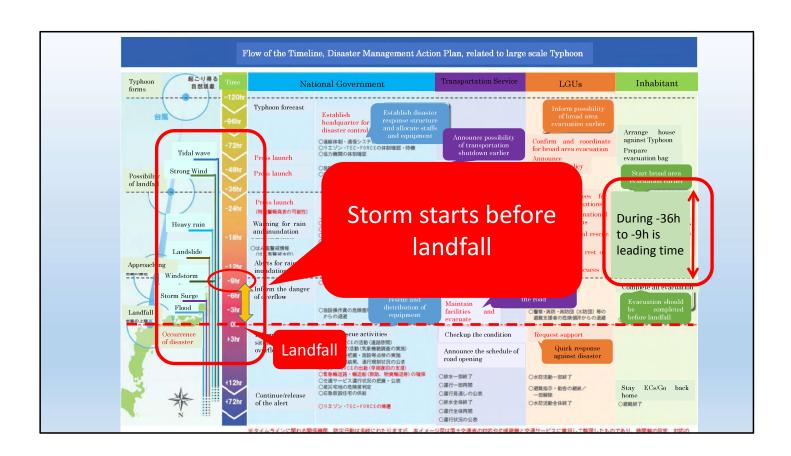
E.g., When to establish the Operation Center,
When to start the evacuation, When to finish and etc.



Based on these control actions, each cluster must classify on their their functions.

### Note:

- · 6h before landfall, storm surge might occur
- Final time limit is up to 9h

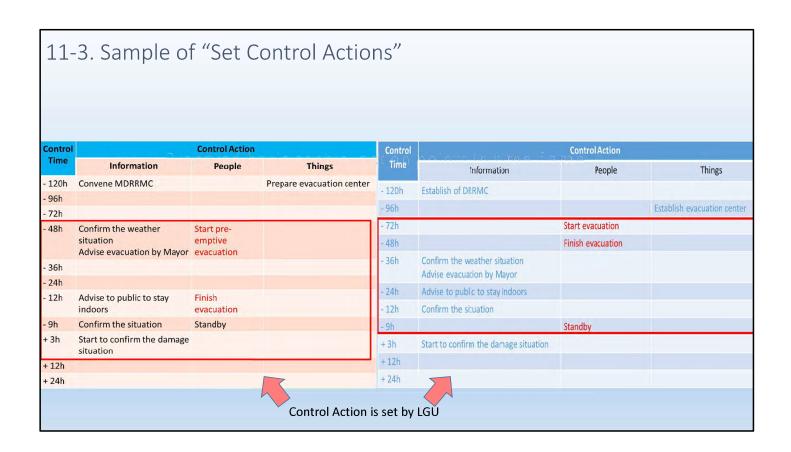


### 11-2. Set Control Actions

◆ Prepare contingency plan in all possible cases

Action points should be set based on the actual time, however, possible scenarios should be considered

- There are people who do not evacuate after "Finish evacuation" points
- There are cases that some of the Ecs are being affected by the typhoon after the people has already evacuated
- After establishment of ideal case, LGU should prepare contingency plan in all possible scenarios that might occur.



# 12-1. Prepare Action Plan of DRRM and Logistic Cluster Based on the Control Action Points

- DRRMC is the most important cluster, since one of their function is to administer all the clusters in case of disaster.
- One of the most important thing in smooth evacuation is the dissemination of "information", mobilization of the community and supplies
- After all, logistic cluster should also manage the mobilization of the community and supplies, roles of this clusters should be prepared.
- Furthermore, DRRM and Logistic clusters should coordinate their functions and finalize
- Accordingly, other clusters should adjust their functionality basing on DRRM and Logistics' capacity.

# 13-1. Prepare Action Plans of Each Cluster Based on the DRRM and Logistic Cluster

• Based on the control action points, each cluster prepare their actions

