

# **Sectoral Perspectives focusing on the Needs, Priorities and Best Practices**

8<sup>th</sup> Philippine National Health Research System Week Celebraton

August 12-14,2014

Cebu City

**Governor Joey Sarte Salceda  
Climate Change Academy - DRRM Training Institute  
Province of Albay, Philippines**

- ☑ **Culture of reduction:** no risk= no response, no damage, no casualty
- ☑ **Goals-oriented: MDGs, Zero Casualty, Better Lives**
- ☑ **Rights-based (social justice):** duty of society / state to defend the vulnerable
- ☑ **Whole of Budget, Whole of Gov' t, Whole of Society:** Team Albay, CSOs most vital link

## **CORE STRATEGIES**

Creation Date: 16 July 2014  
Projection/Datum: WGS84  
Source: PAGASA, CGWD DROMB, Population Census 2010  
**Disclaimer:**  
The designations employed and the presentation of material on this map do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations concerning the legal status of any country, territory, city or area or of its authorities, or concerning the distribution of its frontiers.



# POST TY GLENDA

- Zero Casualty
- Zero Missing
- Cleared roads of debris in 2 days
- NGCP back on 3rd night, but distribution should take 2 weeks to town centers but 45 days to outer areas
- Flights back to normal
- Hotels have reopened

# **GLEND A ACTIONS**

- 1. Posting and monitoring of Storm Tracks JTWC starting Fri**
- 2. Advisory 1 on Sunday noon informing of Glenda and usual measures**
- 3. Advisory 2 on Monday morn: shock therapy ... ALL LEVEL CLASS SUSPENSION**
- 4. Advisory 3: PDRRMC full council Monday lunch w advice to C/MDRRMCs and BDRRMCs**
- 5. Advisory 4: Evacuation Order for Floods, Landslide and Lahar**
- 6. Advisory 5: Additional evacuation for storm surge and houses made of light materials**
- 7. Advisory 6: Suspension of gov't work w advice to private**
- 8. Advisory 7: Reiteration of no crossing of rivers and no sailing to sea**
- 9. Inputting of advisories and SWBs to Smart Infoboard and PINDOT**
- 10. Release of evac assistance 5kg packs and dispatch of trucks**
- 11. Activation of 14 DRUs and 3 HEMs**
- 12. Continuous radio interviews from Sunday afternoon to Tues evening**

# Albay PDRRMC ADVISORIES on TY Glenda

ALBAY PROVINCIAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL  
Provincial Disaster Operation Center  
Province of Albay

**PDRRMC Advisory 1**  
**Tropical Storm Rammasun (Glenda)**  
**7:00 PM July 13, 2014**

In view of the weather forecast briefier provided by the PAGASA Central Office through Dr. Dalida, TS Rammasun (Glenda) is expected to enter the PAR tonight and will bring moderate to heavy rain in the Bicol Region by Tuesday evening. After a careful analysis of the situation through the available weather forecasting models by the PAGASA, taking into consideration the risk and exposures of the public, the PDRRMC hereby ordered for public safety and countermeasures:

1. Residents along river system and steep slope to pre identify safer grounds and facilities for possible evacuation in case of flood and landslide evacuation for disaster avoidance
2. All LDRRMCs should be on heightened alert in their area of jurisdictions and to monitor status of the TS Rammasun (Glenda) through the PAGASA Legazpi, PDRRMC Infoboard and local broadcast media until the weather situation normalizes and
3. Expect periodic issuances of further emergency advisories through PDRRMC Infoboard and local broadcast stations.

So ordered.

  
**JOEY SARTE SALCEDA**  
Governor and PDRRMC Chairman

ALBAY PROVINCIAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL  
Provincial Disaster Operation Center  
Province of Albay

**PDRRMC Advisory 2**  
**Tropical Storm Rammasun (Glenda)**  
**5:00 AM July 14, 2014**

PAGASA has placed Albay under Signal Number 1 as of this morning:

1. Suspension of pre-school classes both in the public and private schools.
2. Residents along river system and steep slope to pre identify safer grounds and facilities for possible evacuation in case of flood and landslide evacuation for disaster avoidance.
3. All LDRRMCs should be on heightened alert in their AOR. and to monitor status of the TS Rammasun (Glenda).
4. No sailing to sea for small fishing vessels and passenger sea craft.
5. Expect regular and periodic issuances of further emergency advisories through Albay PDRRMC Infoboard and local broadcast stations.

  
**JOEY SARTE SALCEDA**  
Governor and PDRRMC Chairman

# Albay PDRRMC ADVISORIES on TY Glenda

ALBAY PROVINCIAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL  
Provincial Disaster Operation Center  
Province of Albay

**PDRRMC Advisory 3**  
**Tropical Storm Rammasun (Glenda)**  
**12:00 AM July 14, 2014**

PAGASA has placed Albay under Signal Number 2, I therefore direct all concerned of the following:

1. Placing Albay under preparedness status.
2. **SUSPENSION** of classes at **ALL** levels both in the public and private schools.
3. All Local Disaster Risk Reduction and Management Councils are directed to activate their respective Operations Centers for preparedness meeting and close monitoring of weather bulletins and PDRRMC advisories through Infoboard and for timely application of countermeasures for disaster avoidance in their respective jurisdictions.
4. Reiteration of residents along river system and steep slope to pre identify safer grounds and facilities for possible evacuation in case of flood and landslide evacuation for disaster avoidance.
5. No sailing to all fishing vessels and passenger sea craft.
6. Expect regular and periodic issuances of further emergency advisories through Albay PDRRMC Infoboard and local broadcast stations.

  
**JOEY SARTE SALCEDA**  
Governor and PDRRMC Chairman

ALBAY PROVINCIAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL  
Provincial Disaster Operation Center  
Province of Albay

**PDRRMC Advisory 4**  
**Tropical Storm Rammasun (Glenda)**  
**Reiteration of Evacuation Order**  
**5:00 PM July 14, 2014**

On its 5:00 PM Severe Weather Bulletin of PAGASA, Albay remains under PSWS No. 2 as Tropical Storm Glenda has intensified further as it continues to move westward threatening Bicol Region with the storm center located at 470 Km east southeast of Virac, Catanduanes or 500 km. east of Legazpi City (12.7°N, 128.9°E) and has a maximum sustained wind of 110Kph near the center and gustiness of up to 140 kph forecast to move West at 30 kph.

In view of this, the PDRRMC reiterates the verbal **EVACUATION ORDER** during the PDRRMC meeting this afternoon of all vulnerable population threatened by **flood** (Libon, Oas, Polangui, Malinao), **landslide** (Manito, Polangui, Sto. Domingo, Tiwi, Oas, Malinao), **lahar** (Guinobatan, Camalig, Daraga, Legazpi City and Sto. Domingo), **storm surge** (coastal population) and **wind** (houses made up of light materials) to safe public and private evacuation centers.

Reiterating deployment of trucks and other emergency evacuation vehicles to the municipalities of Polangui, Libon, Oas, Malinao, and Jovellar.

DepEd, municipal, C/M/BDRRMCs are hereby instructed to facilitate the immediate and full compliance of this order.

So ordered.

  
**JOEY SARTE SALCEDA**  
Governor and PDRRMC Chairman



# Albay PDRRMC ADVISORIES on TY Glenda

ALBAY PROVINCIAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL  
Provincial Disaster Operation Center  
Province of Albay

**PDRRMC Advisory 5**  
**Tropical Storm Rammasun (Glenda)**  
**Reiteration of Evacuation Order**  
**11:00 PM July 14, 2014**

Latest JTWC Bulletin (#17) expected Tropical Storm Glenda to intensify further to around 166 kph sustained and about 203 kph max gusts before making landfall then expected to weaken slightly as it traverses land. In view of these wind magnitudes, we are including WIND (HOUSES MADE OF LIGHT MATERIALS) / STORM SURGE (COASTAL RESIDENTS) HAZARD VULNERABLE COMMUNITIES FOR EVACUATION.

So ordered.

  
**JOEY SARTE SALCEDA**  
Governor and PDRRMC Chairman

ALBAY PROVINCIAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL  
Provincial Disaster Operation Center  
Province of Albay

**PDRRMC Advisory 6**  
**Tropical Storm Rammasun (Glenda)**  
**Suspension of Office Work**  
**5:00 AM July 15, 2014**

With rising risks to our zero casualty goal during disasters, work in government offices are hereby suspended except those:

1. Engaged in disaster response work like AFP (for evacuation and rescue), PNP (traffic management esp. in lahar and flooded roads in key trading and traffic routes) DOH (health emergency), BRTH and PHO (hospital care), DSWD and NFA (food security), DPWH and PEO DRU units (for clearing).
2. Upon standing request, fiscal and financial sectors like BIR, BSP, LBP and DBP.

So ordered.

  
**JOEY SARTE SALCEDA**  
Governor and PDRRMC Chairman

# Albay PDRRMC ADVISORIES on TY Glenda

ALBAY PROVINCIAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL  
Provincial Disaster Operation Center  
Province of Albay

**PDRRMC Advisory 7**  
**Tropical Storm Rammasun (Glenda)**  
**10:00 PM July 15, 2014**

Based on our initial assessments in the Execom of PDRRMC:

1. Back to business.
2. Back to work - public sector.
3. Classes remain suspended at all levels for just another day to enable clearing and cleaning of school facilities and to allow school children to help in their homes.
4. APEC, DPWH and PNP to immediately deploy teams to clear broken wires and fallen electric posts and trees and other barriers to transportation.
5. Full council meeting of PDRRMC to organise the PDNA teams to assess damage and propose / compose the Glenda Early Recovery and Reconstruction Plan.

So ordered.

  
**JOEY SARTE SALCEDA**  
Governor and PDRRMC Chairman

ALBAY PROVINCIAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL  
Provincial Disaster Operation Center  
Province of Albay

**PDRRMC Advisory 8**  
**Tropical Storm Rammasun (Glenda)**  
**Decampment**  
**10:00 PM July 16, 2014**

By 2 P.M., PDRRMC ordered a full decampment of 134000 both private and school-based evacuation over the past 60 hours. This is a consensus reached with PAGASA with respect to the residual hazards posed by Super Typhoon Glenda.

We request AFP to assist the decampment. And barangays should clean up the rooms they used.

So ordered.

  
**JOEY SARTE SALCEDA**  
Governor and PDRRMC Chairman

# Albay PDRRMC ADVISORIES on TY Glenda

ALBAY PROVINCIAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL  
Provincial Disaster Operation Center  
Province of Albay

**PDRRMC Advisory 9**  
**Tropical Storm Rammasun (Glenda)**  
**Resumption of Classes**  
**5:00 PM July 16, 2014**

Upon consultation with PDRRMC members and in consideration to the effects brought by Typhoon Glenda, classes in all levels will resume on Monday, July 21, 2014. However, work in government and private offices resumes tomorrow, July 17, 2014.

So ordered.



**JOEY SARTE SALCEDA**  
Governor and PDRRMC Chairman

# Albay PDRRMC ADVISORIES on TY Glenda



Joey Sarte Salceda with Cca-drrmti Albay and 19  
18 hrs · Edited ·

## PDRRMC Advisory 10 on Typhoon Glenda

### "Automatic price freeze on basic necessities"

This is to remind our local traders. The Sangguniang Panlalawigan has placed the entire province under a state of calamity last July 16, 2014 and therefore the following laws on Price Control for Basic Necessities and Prime Commodities are operative to protect public welfare:

RA 7581, Section 6(1): "Price freeze for basic necessities for 60 days unless lifted. .... Prices of basic necessities in areas under a state of calamity shall automatically be frozen at their prevailing prices or placed under automatic price control whenever."

RA 10121 Section 17(a): "Imposition of price ceiling on basic necessities and prime commodities by the President upon the recommendation of the implementing agency as provided for under Republic Act No. 7581, otherwise known as the 'Price Act,' or the National Price Coordinating Council."

RA 10121 Section 17(b): "Monitoring, prevention and control by the Local Price Coordination Council of overpricing/profitteering and hoarding of prime commodities, medicines and petroleum products."

In this regard, under the Price Act, a price freeze on basic

ALBAY PROVINCIAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL  
Provincial Disaster Operation Center  
Province of Albay

**PDRRMC Advisory 10**  
**Tropical Storm Rammasun (Glenda)**  
**Automatic Price Freeze on Basic Necessities**  
**August 04, 2014**

This is to remind our local traders.

The Sangguniang Panlalawigan of Albay has placed the entire province under a STATE OF CALAMITY last July 16, 2014 and therefore the following laws on Price Control for Basic Necessities and Prime Commodities are operative to protect public welfare:

**RA 7581, Section 6(1):** "Price freeze for basic necessities is implemented for 60 days unless lifted... Prices of basic necessities in areas under a state of calamity shall automatically be frozen at their prevailing prices or placed under automatic price control whenever."

**RA 10121 Section 17(a):** "Imposition of price ceiling on basic necessities and prime commodities by the President upon the recommendation of the implementing agency as provided for under Republic Act No. 7581, otherwise known as the 'Price Act,' or the National Price Coordinating Council."

**RA 10121 Section 17(b):** "Monitoring, prevention and control by the Local Price Coordination Council of overpricing/profitteering and hoarding of prime commodities, medicines and petroleum products."

In this regard, under the Price Act, a **price freeze on basic commodities** has been automatically imposed in areas placed under a state of calamity, in this case due to Typhoon Glenda:

- The price freeze covers basic necessities or goods vital to the needs of consumers for their sustenance and existence. These goods include canned fish and other canned marine products, processed milk, coffee, laundry soap, detergent, candles, bread and salt.
- The imposition of a price freeze means that goods covered should be sold at prevailing prices and would be in effect for 60 days unless lifted earlier.
- Violators of the price freeze will be summoned by the DTI. Those found selling above the prevailing prices could face fines of up to P1 million or imprisonment for a maximum of 10 years.

The DTI Provincial Director Rodrigo Aguilar is principal implementor of price freeze. In a 2007 MOA between DTI and PGA, we have set procedures for the deputization of price monitoring teams to ensure compliance with these laws and to conduct information, education and communications

So ordered.

**JOEY SARTE SALCEDA**  
Governor and PDRRMC Chairman

# PHILIPPINE DAILY INQUIRER

LOCAL ISSUES VIEWS

A TIME TO TEAR APART AND A TIME TO SEW TOGETHER  
A man pets an old tire on the roof of his shack on the roof of his shack that surprisingly remains standing on a seawall at Basoco compound in Tondo, Manila, despite powerful winds caused by Typhoon "Glenda." His neighbor is not as lucky as his home is on the brink of falling into the water. INQSnap this page (not just the logs) to view more photos.

SCOTT B.



# Albay model: Zero casualty

Email: feedback@inquirer.com.ph Website: opinion.inquirer.net

# OPINION

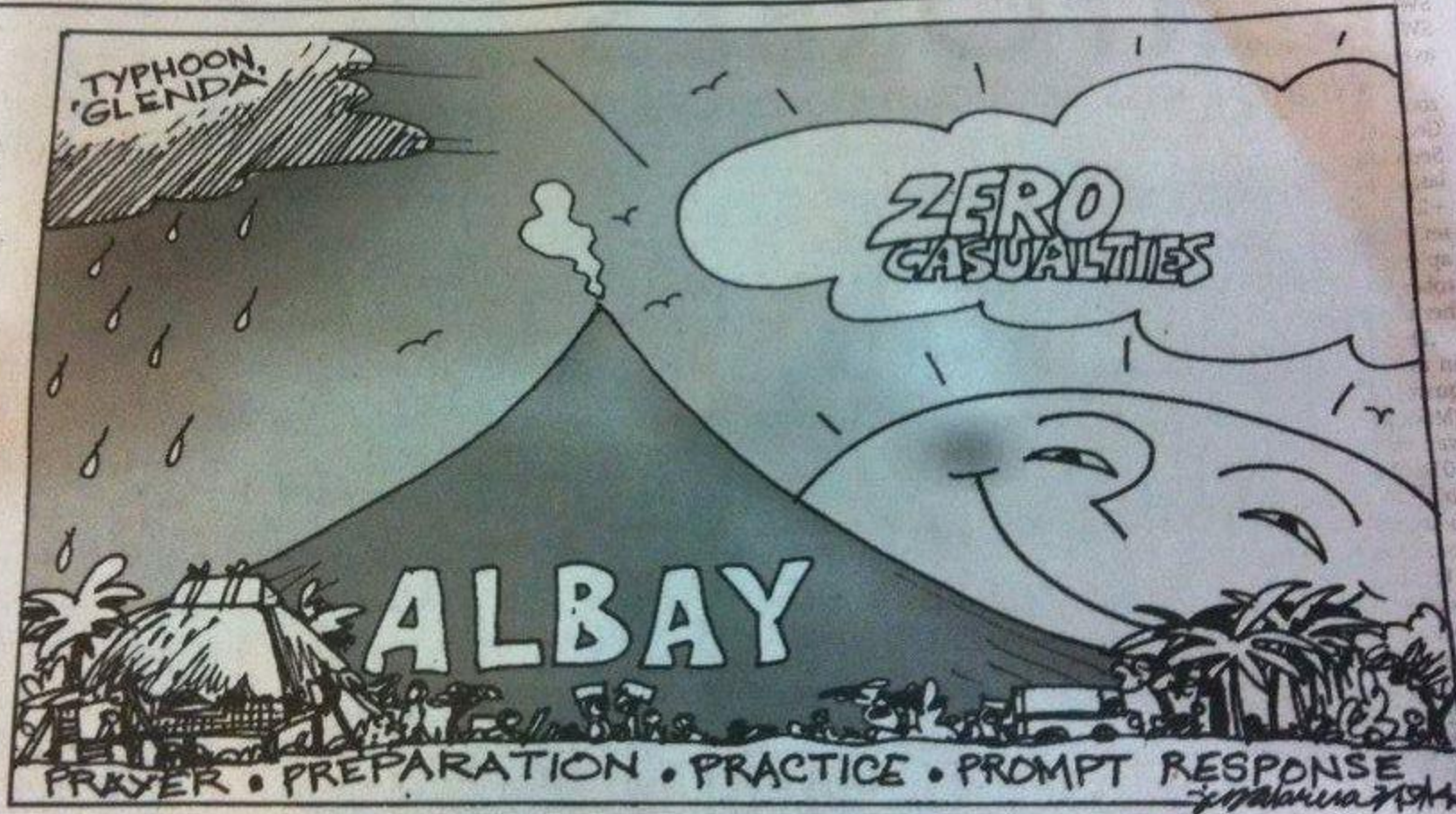
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• Chino Roces Ave corner Yague and Mascardo Sts., Makati City  
• P.O. Box 2153 Makati Central Post Office 1263 Makati City  
• Our telephone numbers are 897-8808 connecting all departments  
• Editorial Fax 897-4793 / 897-4794 • Advertising 897-4807  
• Circulation 523-5570  
• Subscription Hotline 896-6000



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but...

Glenda," the numbers are sense, encouraging: 40 Typhoon "Milenyo"—a struck in 2006; zero the City of Manila; like-unt of the storm but re- than 400,000 people gher grounds both in d in the provinces, ents cooperating fully overnment warnings of disaster. o falling trees and fly- he lack of dramatic ks Secretary Rogelio the aerial survey he cials, which found ughfares, was "bor- director of Project more and more oks like we're get-



## Perennial issue

"SOMETIMES THINGS could be right under your nose. The only problem is your eyes are above it." Doesn't this old saw fit the turmoil

### VIEWPOINT

subservient Hong Kong government tried ram through unpopular national security la

## Public Lives

# 'Antifragile,' not just resilient

By Randy David | Philippine Daily Inquirer  12:06 am | Sunday, July 20th, 2014

“A few local governments, like Albay, appear to have integrated scientific knowledge and disaster preparedness into everyday governance and public education, while many other provinces and towns are content to just talk about it. What spells the difference is what some sociologists call “resonance.” In some societies, environmental issues create a deep and enduring resonance in their institutional systems, and this resonance results in new awareness, new behaviors, new policies, new laws, and new ways of doing things. But, alas, in many others, including our own society, increasing environmental awareness has not always translated into an advance in institutional resonance.”

<http://opinion.inquirer.net/76707/antifragile-not-just-resilient>



Phil. Daily Inquirer

@Team\_Inquirer

DILG lauds LGUs for low  
#GlendaPH death count, cites  
Albay's 0 casualty; Roxas says "1  
death is 1 too many." |

@JulieMAurelio

7/20/14, 5:46 PM



Ricky Carandang

@rickycarandang

A pro-active local  
government can make a big  
difference in keeping people  
safe during typhoons. Look at  
Albay.

7/15/14, 6:40 PM

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## Philippine province proves mass storm deaths can be avoided

5:11pm EDT

By Rosemarie Francisco

MANILA (Reuters) - Nearly 100 people were killed in the Philippines last week when Typhoon Rammason roared through, raising doubts about efforts to end the heavy tolls from storms that are only expected to get more intense as the global climate changes.

But in Albay province, which bore the brunt of the strongest storm in the new typhoon season, no one was killed, proving that deaths can be prevented provided there is the will to force people to do what is necessary to save their own lives.

"Tools of leadership are lacking," Joey Salceda, the three-term governor of Albay told Reuters when asked about the tally of casualties in other provinces.

About 20 typhoons hit the Philippines every year, and recently they have been getting stronger. Meteorologists say that as ocean temperatures rise, storms will get more dangerous.

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The Philippines was ranked the world's third most disaster-prone country on the World Disaster Report of 2012, and Isberto said communities had to adapt to climate change.

"What if we had not just one, but 10 Albays in different parts of the country? Or better yet what if there are 20, or 30?," Isberto told a disaster forum of government, business and humanitarian officials on Tuesday.

"Wouldn't the country be a better place?"

(Additional reporting by Karen Lema and Erik dela Cruz; Editing by Robert Birsell and Michael Urquhart)







# UNISDR

The United Nations Office for Disaster Risk Reduction

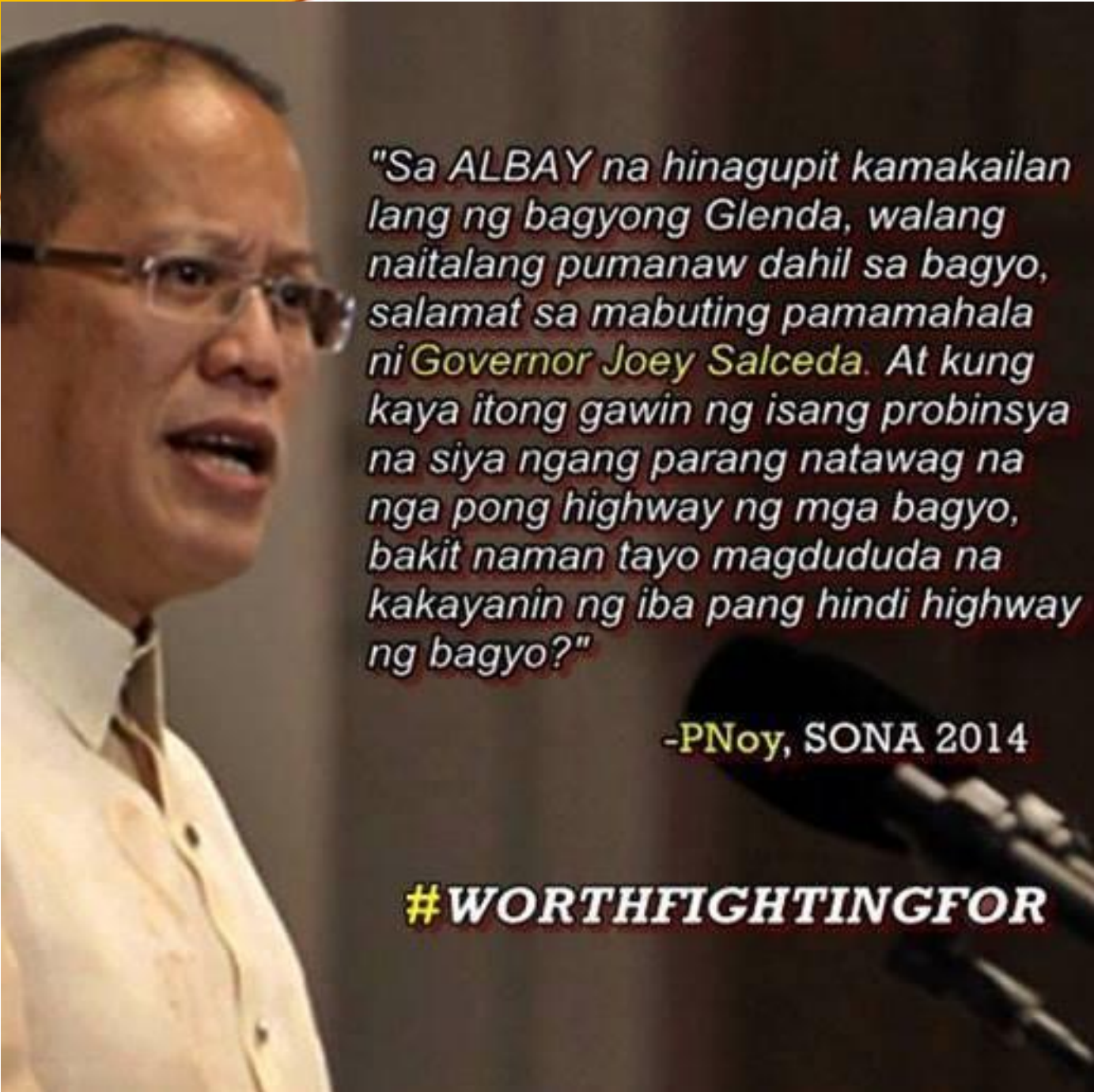
HOME

NEWS ARCHIVE

## “Zero Tolerance” in Albay pays off



*UNISDR champion, Governor Joey Salceda of Albay, Philippines, receiving sectoral updates from the province's disaster management team.*



*"Sa ALBAY na hinagupit kamakailan lang ng bagyong Glenda, walang naitalang pumanaw dahil sa bagyo, salamat sa mabuting pamamahala ni Governor Joey Salceda. At kung kaya itong gawin ng isang probinsya na siya ngang parang natawag na nga pong highway ng mga bagyo, bakit naman tayo magdududa na kakayanin ng iba pang hindi highway ng bagyo?"*

**-PNoy, SONA 2014**

**#WORTHFIGHTINGFOR**

# Typhoon Glenda Damage Report

PROVINCIAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL  
ALBAY PUBLIC SAFETY AND EMERGENCY MANAGEMENT OFFICE  
Provincial Disaster Operation Center  
Legazpi City

## PARTIAL DAMAGE AND ACTIVITY MONITORING REPORT - TYPHOON GLENDA

as of August 04, 2014

### I- CASUALTIES:

Dead	0
Missing	0
Injured	38

### II- AFFECTED POPULATION:

Families	136,825
Persons	711,490

### III- EVACUATED POPULATION:

Families	100,936
Persons	500,506

### IV- DAMAGED HOUSES

		<i>Cost (PhP)</i>
Totally Damaged	25,656	769,680,000.00
Critically Damaged	77,496	2,324,880,000.00
<b>Sub-Total</b>	<b>103,152</b>	<b>3,094,560,000.00</b>

# Typhoon Glenda Damage Report

PROVINCIAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL  
ALBAY PUBLIC SAFETY AND EMERGENCY MANAGEMENT OFFICE  
Provincial Disaster Operation Center  
Legazpi City

## PARTIAL DAMAGE AND ACTIVITY MONITORING REPORT - TYPHOON GLENDA as of August 04, 2014

### V- DAMAGE TO AGRICULTURE FISHERIES:

<i>Type</i>	<i>Affected area</i>	<i>Production Loss</i>
Coconut (PCA est.)	9,417 has	1,300,000,000.00
Rice	10,420.47	178,712,643.34
Corn	1,333	31,455,716.00
Vegies, etc	11,051.45	905,215,430.00
Fisheries	50	1,845,500.00
<b>Sub-Total</b>		<b>2,417,229,289.34</b>

### VI- DAMAGE TO LIVESTOCK AND POULTRY:

<i>Type</i>	<i>Heads</i>	<i>Cost (PhP)</i>
Misc		4,942,175.00
<b>Sub-Total</b>		<b>4,942,175.00</b>

# Typhoon Glenda Damage Report

## VII- DAMAGE TO INFRASTRUCTURE:

DPWH	Public infra	1,210,017,000.00
	Other Govt Facilities	1,200,000,000.00
PEO	Roads	288,200,009.00
	Bridges	68,500,000.00
	Spillways, Ripraps, slope protection	117,850,000.00
	Flood Control	282,850,000.00
	Water System	17,600,000.00
	Irrigation System	48,700,000.00
	Provincial Buildings	80,150,000.00
	City/Municipal Infra Facilities	142,500,000.00
Oas	Misc facilities & Water system	2,150,000.00
Bacacay	Water System	15,000,000.00
Guinobatan		105,500,000.00
Polangui		190,000,000.00
Sto Domingo		67,500,000.00
Ligao City		18,010,000.00
Legazpi City		100,000,000.00
Tabaco City		31,571,980.00
Camalig		9,050,000.00
Malinao		14,098,709.75
	Water System	570,000.00
Tiwi		14,625,000.00
Rapu-rapu		50,000,000.00
Jovellar		9,725,000.00
DEPED	Totally Damaged	17,880,000.00
	Partially Damaged	43,150,870.00
PVS Facilities		2,122,500.00
	Communication Equipments (base, HH radios, antenna, repeaters & other paraphernalia)	8,700,200.00
<b>Sub-Total</b>		<b>4,156,021,268.75</b>

<b>GRAND TOTAL</b>	<b>9,672,752,733.09</b>
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# Typhoon Glenda : EVAC Report

PROVINCIAL DISASTER RISK REDUCTION MANAGEMENT COUNCIL  
 Provincial Disaster Operation Center  
 Legazpi City

AFFECTED / EVACUATED PERSONS REPORT : TYPHOON GLENDA  
 July 17, 2014, 5:00PM

CITY/MUNICIPALITY	BARANGAY	AFFECTED// EVACUATED POPULATION								Evacuation Center	Remarks
		FLOOD		LANDSLIDE		LAHAR/MUDFLOW		STORM SURGE/WIND			
		FAMILIES	PERSONS	FAMILIES	PERSONS	FAMILIES	PERSONS	FAMILIES	PERSONS		
1. Pioduran	Various Bgys	864	3,498							San Lorenzo Aca.	
<b>Sub-Total</b>		<b>864</b>	<b>3,498</b>								
2. Daraga	Malobago	183	952							AECID Hall, Bgy	
	Tagas	150	779							Halls, Safe Priv.	
	Busay	120	624							Houses and	
	Cullat	106	552							Schools	
	Banag	213	1,108								
	Salvacion	350	1,819								
	Miisi	350	1,821								
	Budiao	220	1,145								
	Banadero	450	2,341								
	Matnog	470	2,444								
	Kilicao	513	2,667								
	Alcala	783	4,071								
	Sagpon	116	603								
<b>Sub-Total</b>		<b>4,024</b>	<b>20,926</b>								
3. Guinobatan	Various Bgys	2,676	13,859							Halls, Safe Priv.	
<b>Sub-Total</b>		<b>2,676</b>	<b>13,859</b>							Houses and	
4. Tabaco City	Various Bgys	3,735	13,221							Halls, Safe Priv.	
<b>Sub-Total</b>		<b>3,735</b>	<b>13,221</b>							Houses and	
										Schools	
5. Ligao City	Various Brgys	4,378	19,971					2,004	10,421	Halls, Safe Priv.	
										Houses and	
<b>Sub-Total</b>		<b>4,378</b>	<b>19,971</b>					<b>2,004</b>	<b>10,421</b>	Schools	

# Typhoon Glenda : EVAC Report

CITY/MUNICIPALITY	BARANGAY	AFFECTED// EVACUATED POPULATION								Evacuation Center	Remarks
		FLOOD		LANDSLIDE		LAHAR/MUDFLOW		STORM SURGE/WIND			
		FAMILIES	PERSONS	FAMILIES	PERSONS	FAMILIES	PERSONS	FAMILIES	PERSONS		
6. Tiwi	25 Bgys	3,322	14,924							Halls, Safe Priv.	
<b>Sub-Total</b>		<b>3,322</b>	<b>14,924</b>							Houses and Schools	
7. Camalig	34 Bgys	7,134	27,318							Halls, Safe Priv.	
<b>Sub-Total</b>		<b>7,134</b>	<b>27,318</b>							Houses and Schools	
8. Oas	53 Bgys	8,710	45,292							Halls, Safe Priv.	
<b>Sub-Total</b>		<b>8,710</b>	<b>45,292</b>							Houses and Schools	
9. Jovellar	Various Bgys	1,599	7,995							Halls, Safe Priv.	
<b>Sub-Total</b>		<b>1,599</b>	<b>7,995</b>							Houses and Schools	
10. Sto Domingo	11 Bgys	3,552	12,652							Halls, Safe Priv.	
<b>Sub-Total</b>		<b>3,552</b>	<b>12,652</b>							Houses and Schools	
11. Rapu-Rapu	Various Bgys	5,003	25,015							Halls, Safe Priv.	
<b>Sub-Total</b>		<b>5,003</b>	<b>25,015</b>							Houses and Schools	
12. Libon	Various Bgys	1,653	7,564							Halls, Safe Priv.	
<b>Sub-Total</b>		<b>1,653</b>	<b>7,564</b>							Houses and Schools	
13. Malilipot	Various Bgys	6,801	31,493							Halls, Safe Priv.	
<b>Sub-Total</b>		<b>6,801</b>	<b>31,493</b>							Houses and Schools	
14. Polangui	Various Bgys	8,804	45,780							Halls, Safe Priv.	
<b>Sub-Total</b>		<b>8,804</b>	<b>45,780</b>							Houses and Schools	

# Typhoon Glenda : EVAC Report

CITY/MUNICIPALITY	BARANGAY	AFFECTED// EVACUATED POPULATION								Evacuation Center	Remarks
		FLOOD		LANDSLIDE		LAHAR/MUDFLOW		STORM SURGE/WIND			
		FAMILIES	PERSONS	FAMILIES	PERSONS	FAMILIES	PERSONS	FAMILIES	PERSONS		
15. Legazpi City	Various Bgys	21,337	120,305							Halls, Safe Priv. Houses and Schools	
<b>Sub-Total</b>		<b>21,337</b>	<b>120,305</b>								
16. Malinao	Various Bgys	7,612	38,060							Halls, Safe Priv. Houses and Schools	
<b>Sub-Total</b>		<b>7,612</b>	<b>38,060</b>								
17. Manito	Various Bgys	4,201	24,705							Halls, Safe Priv. Houses and JICA Bldg	
<b>Sub-Total</b>		<b>4,201</b>	<b>24,705</b>								
18. Bacacay	Various Bgys	3,527	17,507							Halls, Safe Priv. Houses and Schools	
<b>Sub-Total</b>		<b>3,527</b>	<b>17,507</b>								
<b>TOTAL</b>		<b>98,932</b>	<b>490,085</b>					<b>2,004</b>	<b>10,421</b>		

Source: LGUs; PSWDO

NOTE: Decamped as of June 16, 2014

Prepared by:

**MARIA CRISTINA S. ADOR**  
Statistician IV

Reviewed by:

**YOLANDA P. GUANZON**  
PSWDO Department Hed

**CEDRIC D. DAEP**  
Dept. Head- APSEMO & PDRRMC Exec. Officer

NOTED:

**JOEY SARTE SALCEDA**  
Governor & PDRRMC Chairman



# Executive Order 2014-08



Republic of the Philippines  
PROVINCE OF ALBAY  
Legazpi City



Office of the Governor

JOEY SARTE SALCEDA  
Governor

## EXECUTIVE ORDER NO. 2014-08

**Establishment, Organization and Adoption of the Plan for ALBAY GLENDA EARLY RECOVERY AND RECONSTRUCTION, to be known as "PAGERR", as the priority program of the Provincial Government of Albay for the immediate socio-economic recovery and reconstruction towards sustained disaster risk reduction and climate resilient development pathways**

**WHEREAS**, the Province of Albay was heavily affected by Typhoon Glenda (internationally known as Rammasun) last July 14-15, 2014, and suffered severe damage from the brunt of the said typhoon with wind force of 140-180 that lingered over the entire swathe of Albay landmass and Burias Pass and Albay Gulf for almost 7 hours;

**WHEREAS**, despite this hazard, the province was able to achieve Zero Casualty through its pre-emptive evacuation strategy benefitting 100,936 families or 711,490 individuals;

**WHEREAS**, although the Province has achieved Zero Casualty, Albay suffered massive damages of at least Php 6,107,462,295.00 as of July 19 including:

- 9.4 million coconut trees with an estimated output loss of Php 1.3 Billion
- 54,339 houses made out of light materials worth Php 1,640,170,000.00
- P670 Million public Infrastructure
- P540 Million in other infrastructure
- P620 Million in telecom infrastructure

**WHEREAS**, if such losses will not be compensated by infusion of new resources or net resource transfer, they consequently transmogrify inevitably into higher poverty and higher malnutrition;

**WHEREAS**, there is a need to create a Recovery and Rehabilitation Committee to spearhead the recovery program of Albay;

**NOW THEREFORE, I, JOEY SARTE SALCEDA**, Governor of the Province of Albay, by virtue of the powers vested in me by law, do order, as follows:

**ALBAY EMBASSY (Media Liaison Office)**

904-S Tower B, Skyland Plaza, Sen. Gil Puyat Avenue, Makati City 1200 Telefax No. (02) 887-7672 Tel. No. (02) 225-1940  
OFFICE OF THE GOVERNOR, PROVINCIAL CAPITOL BUILDING, LEGAZPI CITY  
☎ (052) 481-2555 ✉ (052) 480-3444 🌐 [albaysgovoffice@yahoo.com](mailto:albaysgovoffice@yahoo.com)

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Recovery  
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Secretariat

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date, time,  
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g - A tracking system shall be installed on computer order to monitor the flow of data and resources. It shall be planned and as implemented based on time duration and accomplishments.

ources - The Committee shall access funds and external sources. Implementation of projects and the Terms of Reference and other implementing nor.

nd - All donations/contributions to Albay PAGERR be deposited to the Trust Fund inclusive of Philippine pesos and other currencies.

ND BANK OF THE PHILIPPINES  
Legazpi City Branch, Legazpi City  
Provincial Government of Albay  
32-0137-80  
JUST CALAMITY

ation - Cluster head and members shall not be entitled as they render shall be considered part of the regular they perform in their respective agencies. Traveling are reimbursable according to government accounting ions.

y - This Executive Order shall take effect immediately.

this 15<sup>th</sup> day of July, 2014.

JOEY SARTE SALCEDA

# Executive Order 2014-08

**Section 1. Name** – Plan for Albay Glenda Early Recovery and Reconstruction otherwise known as “PAGERR” is hereby created and organized as the Recovery and Rehabilitation Committee of the Provincial Government of Albay to initiate post disaster plans, programs and interventions for the immediate as priority thrust of Albay towards sustained economic recovery and modernization.

**Section 2. Composition** – The PAGERR Working Groups shall be composed of:

**Chairman:** Joey Sarte Salceda, Governor  
**Vice Chairman:** Jesus Salceda Jr., Provincial Administrator, APSEMO, PPDO  
**Secretariat:** AMDGO

**Members:** Representatives from the following:

1. Economic Sectors Group – Electricity, telecom, banks, industry and manufacturing offices, including DTI, PPDO, ACCI, ABAP, APEC, NGCP
2. Agriculture/ Agri Facilities, Food Security – PAS, DA RFU, PVS, NIA, NFA
3. Health and Health Facilities – PHO, DOH V, BRTH, NNC,
4. Housing, Settlements and Livelihoods – PSWDO, MSWDOs, PCEDO, NHA
5. Public Infrastructure – PEO, DPWHV, DEO1, DEO2, DEO3
6. Education – DepEd Albay, DepEd Legazpi, DepEd Ligao and DepEd Tabaco, BU, CHED, CEAP
7. Environment and Natural Resources, Ecosystem Restoration and Enhancement of Ecosystem Services – ENRG, ENRG, PEROD, CENROs, DENR, EMB V
8. DRR (Response, Resources and Capacities) – OCD RDRRMC5
9. Hazard Review and Update – PAGASA (SLPRSD), PHIVOLCS, MGB, APSEMO

**Section 3. Functions and Responsibility of Cluster Members** – The Cluster members shall perform functions such as but not limited to the following:

**A. General Directives:**

- a) Assessment of needs
- b) Identification of projects, site and beneficiaries
- c) Formulation of Project proposals
- d) Implementation of projects
- e) Submission of formative and summative reports to the Secretariat

**B. Specific Functions:**

- (1) **ECONOMIC SECTORS GROUP** – Ensure immediate restoration of lifeline facilities and critical resources on telecommunications damaged by Typhoon Glenda and ensure livelihood opportunities to affected populace, including tourism, BPOs, bank, telecom, national security.
- (2) **AGRICULTURE/AGRIFACILITIES, FOOD SECURITY** – Ensure allocation and provision of rice and vegetable seeds and other farm implements, restoration and rehabilitation of support facilities for farmlands, fisheries, livestock, irrigation facilities, post-harvest facilities;

- (3) **HEALTH and HEALTH FACILITIES** – Ensure rehabilitation of damaged health facilities, provision of medicines and restoration of damaged water sources and distribution of potable water, provision of medicines and supplemental feeding and PhilHealth Coverage for indigents;
- (4) **HOUSING, SETTLEMENTS and LIVELIHOOD** – Adopt a Social Preparation Plan and ensure provision of shelter assistance, land acquisition, identification and development of safe relocation sites, and conduct programs of cash for work/food for affected population;
- (5) **PUBLIC INFRASTRUCTURE** – Ensure repair of damaged public infrastructures and other critical resources;
- (6) **EDUCATION** – Ensure repair of damaged schools and other school facilities, enhanced safe school program, scholarship to indigent students;
- (7) **DRR AGENCIES** – Review existing response mechanism, conduct of resource inventory and measurement of capacities of DRRMCs;
- (8) **HAZARD REVIEW AND UPDATE** – Conduct inter agency study on existing hazards and hazards and risks assessment of vulnerable areas, update maps for disaster response decision making.
- (9) **ENVIRONMENTAL PROTECTION** – Watershed rehabilitation, coastal reforestation, eco-tourism development (on site and off site), environmental protective measures, policy formulation.

**Section 4. Functions and Responsibilities of PAGERR** – The PAGERR shall perform as the main plan formulator and policy body of the Recovery and Rehabilitation Committee of the Provincial Government and decide on strategic matters, directions, structure, implementation procedures, mentoring and evaluation of the projects.

**Section 5. Functions and Responsibilities of Secretariat** – The Secretariat shall perform functions such as but not limited to the following:

1. Collect and collate data from clusters;
2. Validate reports from clusters and their informants;
3. Review proposals from clusters and other organizations prior to submission to the Office of the Governor for endorsement to funding donors;
4. Refer to cluster concerned requests from individuals, organizations, local government units and other entities for their action/intervention;
5. Access funds through the Provincial Government;
6. Allocate resources generated;
7. Organize and arrange meetings of the steering committee and each cluster;
8. Document all discussions during meetings;
9. Monitor and evaluate project through impact assessments;
10. Provide reports to the office of the Governor and the funding donor(s);
11. Perform such other functions relevant to the realization of each particular project or activity.

**Section 6. Meetings** – The regular meetings of the Committee shall be held every 1st Wednesday of the month at 1:30 PM in the afternoon or on the date, time, venue as may be agreed upon by the members. However, cluster meetings may be conducted as the need arises.

# POST TY GLENDA

- ❑ **DANA (Damage and Needs Assessment) in Wed**
- ❑ **PAGERR (Plan for Albay Glenda Early Recovery and Reconstruction) in Thurs DANA (Damage and Needs Assessment) in Wed**

# **MONETARIST APPROACHES to EARLY RELIEF**

- 1. Government Service Insurance System (GSIS)**
- 2. Home Development Mutual Fund (Pag-Ibig Fund)**
- 3. Small Business Guarantee and Finance Corp. (SB Corp)**
- 4. Land Bank of the Philippines (LBP)**
- 5. Social Security System (SSS)**
- 6. Expedite roll-out of infra projects**



**GSIS** Government Service Insurance System  
Maaasahan ng Lingkod-Bayan

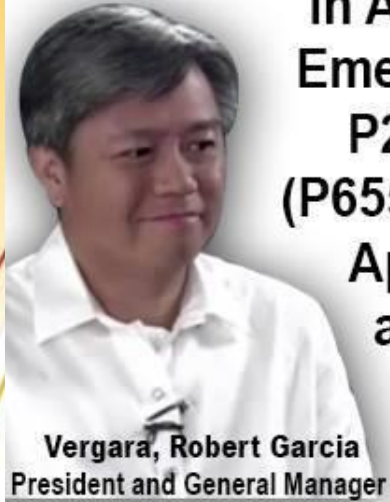


**Vergara, Robert Garcia**  
President and General Manager

**"GSIS Board approves  
Six-month moratorium on  
repayment of all loans of  
Albay-based members as  
requested by  
Gov. Joey Salceda and  
Sangguiniang Panlalawigan ng  
Albay Resolution."**



**GSIS old age pensioners residing in Albay can also now avail of Emergency Loan amounting to P20,000 payable in 3 years (P655.++/month) effective today. Application forms are now available in GSIS offices**



**Vergara, Robert Garcia**  
President and General Manager

**JOEL R. DEFE0**  
GSIS Legazpi Branch Manager  
Alternate Rd, Bitano, Legazpi City  
Tel: (052) 480-4685



# PATANID MARHAY NA BARETA



**PAG-IBIG MEMBERS PLEASE PREPARE NA PO**

**WHO:** 200,000+ Pagibig members of  
Legazpi Branch

**WHAT:** P100,000 Home Improvement Loan payable  
in 30 years at P750 per month at interest of  
6.9%. If minimum wage earner, lower interest  
of 4.5% or P510 monthly.

**HOW:** *Requirements are:*

- a. Payslips
- b. Title
- c. Minimum gross monthly income of P1897  
for non-minimum and P1500 for minimum
- d. no more minimum 24 contributions
- e. Lien to follow
- f. No need to submit construction plan.

## Regions

Loanable Amount	100,000.00
Term of Loan	30 years
Interest Rate	6.985%
GMI	1897.99
P & I	750

Loanable Amount	100,000.00
Term of Loan	30 years
Interest Rate	4.500%
GMI	1,500.00
P & I	510

## Regions

Loanable Amount	100,000.00
Term of Loan	20 years
Interest Rate	6.985%
GMI	2,212.57
P & I	860

Loanable Amount	100,000.00
Term of Loan	20 years
Interest Rate	4.500%
GMI	1,900.00
P & I	635







**SB Corp. approved a P37M Enterprise Rehabilitation Fund (ERF 2) enterprises affected by Typhoon Glenda. It will carry an 8% interest rate per annum; 5 years repayment period with a 6 to 9 months grace period.**



## Land Bank of the Philippines

# Major Disaster Events in Albay Province 1995-2014:

**Zero Casualty in 19 years except 2006**

Calamities	Date	Affected Population		Damage Cost (Php)
		Persons	Dead	
Typhoon Mameng	Sep 28 1995	10,126	0	71,499,797
Typhoon Rosing	Nov 1 1995	440,372	0	539,599,785
Typhoon Pining	Nov 12 1997	1800	0	37,663,000
Typhoon Loleng	Oct 15 1998	201,834	0	303,950,141
Typhoon Sendang	Nov 7 1999	1,122	0	110,000
Mayon Volcano Eruption	1999	68,626	0	284,076,061
Mayon Volcano Eruption	2001	46,914	0	11,937,460
Typhoon Dindo	May 13 2004	33,892	0	226,712,081
Typhoon Unding	Nov 14 2004	1744	0	42,394,231
Typhoon Yoyong	Dec 4 2004	18,372	0	50,590,299
Tropical Storm Caloy	May 9 2006	47,065	0	99,346,841
Mayon Volcano Eruption	2006	40,451	0	50,590,299
<b>Typhoon Milenyo</b>	<b>Sep 25 2006</b>	<b>698,460</b>	<b>14</b>	<b>1,665,316,133</b>
<b>Typhoon Reming</b>	<b>Nov 28 2006</b>	<b>1,060,875</b>	<b>618</b>	<b>3,230,435,702</b>
Typhoon Mina	Nov 21 2008	214,734	0	22,800,000
Typhoon Frank	Jun 18 2008	138,937	0	21,789,000
Typhoon Dante	May 1 2009	49,712	0	238,316,148
Typhoon Pepeng	Oct 9 2009	89,926	0	9,000,719
Typhoon Santi	Oct 30 2009	671,314	0	6,510,000
Mayon Volcano Eruption	July 2009	47,563	0	16,659,000
TS Chedeng	May 25 2011	221,094	0	5,710,768
TS Falcon	June 22 2011	107,253	0	46,762,630
TY Glenda	July 15 2014	711,490	0	9,117,017,374

- ✓ **Zero casualty in 18 of 20 years**
- ✓ **8,700 foreign tourists in 2006 to 339,000 in 2013**
- ✓ **Environmental Protection: Forest cover increased by 88% and Mangrove by 4x**
- ✓ **NAT from 177<sup>th</sup> in 2007 to 19<sup>th</sup> in 2012**
- ✓ **UNICEF-PIDS: 98% participation rate and dropout rate of 0.3%**
- ✓ **College grads from 34,000 to 188,000 with 77,137 assisted since 2007**
- ✓ **Philhealth from 17,000 to 172,000**
- ✓ **MMR of 33 versus 224 national or only 9 mother deaths out of 26,826 live births**
- ✓ **Population: +66,580 in 7 years from 1.2m to 1.26m or less than 10,000 pa**
- ✓ **Rice self sufficiency from 73% in 2008 to 94% in 2013; 2<sup>nd</sup> highest producer of camote**
- ✓ **Multi-awarded**

# Outcomes

# MDGs: Achieved ahead of 2015 exc. MDG 7

Goal	Indicator	Bicol Region	Albay
1	Poverty Incidence	M	H
	Subsistence Incidence	H	H
	Underweight (IRS)	H	H
2	Participation - E	L	H
	Cohort survival	M	M
3	Gender parity - E	H	H
4	Under-five mor	H	H
	Infant mortality	H	H
	Proportion of fu	M	H
5	Maternal morta	L	H
	Contraceptive p	L	M
	Condom use rat	L	M
6	Deaths due to TB	L	H
	Malaria positive cases	H	H
7	Household with access to sanitary toilets	H	L
	Household with access to safe drinking water	H	H

**MDGs have been achieved early through ownership of beneficiaries**

Legend:

L	low probability	H	high probability
M	medium probability		no data



# HEALTH

## ALBAY MDG ACHIEVEMENTS

### CY 2006 VS 2013

MDG Health Indicators:	2006	2013	Target	Remarks
Under-Five mortality rate (UFMR)	16.5% (357/1,000 live births)	11% (295 / 1,000 live births)	27/1,000 Live births	Achieved
Infant mortality rate (IMR)	9.43% (237 deaths / 25,132 live births) * 1,000	7.49% (201/26,826 live births) * 1,000	19/1,000 Live births	Achieved
Maternal mortality rate (MMR)	87% (22 / 25,132 live births) * 100,000	33.55% (9 / 26,826 live births) * 100,000	52/100,000 Live births	Achieved
Skilled-Birth Attendance (SBA)	43% (10,922 / 25,132 live births) * 100	90% (24,316 / 26,826 live births) * 100	80%	Achieved
Facility-Based Deliveries (FBD)	14% (3,483 / 25,132 live births) * 100	90% (24,117 / 26,826 live births) * 100	80%	Achieved

# HEALTH

## ALBAY MDG ACHIEVEMENTS

### CY 2006 VS 2013

MDG Health Indicators:	2006	2013	Target	Remarks
HIV Prevalence Rate	0.0004 (5 / 1% of total pop=12,120)	0.00101 (13 / % of total pop=12,786)	< 1% of total pop.	Achieved
TB Case Detection Rate (CDR)	90%	108%	100	Achieved
TB Cure Rate (CR)	91%	85%	85%	Achieved
Prevalence of Malnutrition	21%	14.01%	17%	Achieved
Households without Access to Safe Water	7.5%	3.8%	6%	Achieved
Households without Access to Sanitary Toilets	16.30%	12.44%	13%	Achieved

# HEALTH

## ALBAY MDG ACHIEVEMENTS

### CY 2006 VS 2013

MDG Health Indicators:	2006	2013	Target	Remarks
Fully-Immunized Child (FIC)	77.84%	85%	95%	
Anti-Measles Vaccination	83.54%	84.195	95%	
Contraceptive Prevalence Rate (CPR)	43%	35%	65%	



# HEALTH

- **PHILHEALTH ENROLMENT**

2006	2013
<b>18,510</b>	<b>173,262</b>

- **Albay has been declared Malaria-free in 2008 and Filarias-free in 2012**
- **Pioneered - **Alis Excess** policy esp. free hospitalization during calamities**

# HEALTH

- **Population: +66,580 in 7 years**

2006	2013
<b>1,212,020</b>	<b>1,278,600</b>

- **Live Births**

2006	2013
<b>25,132</b>	<b>26,826</b>

- **Other health indicators**

Other health indicators	2006	2013
<b>National Voluntary Blood Donation</b>	39%	54%
<b>Dengue cases</b>	55 cases	10 cases
<b>Rabies (Deaths)</b>	7 deaths	5 deaths

# Pantawid Pamilya Household

MUNICIPALITY	SET 1	SET 2	SET 3	SET 4	SET 5	SET 6	SET 7	Potential HH Beneficiaries (Extended Age Coverage 15-18 years old)	Grand Total
Bacacay			424	10	2	3,642	119	2,162	6,359
Camalig	1	1	3	4	3,170	96	893	2,010	6,178
City of Ligao		1	909	5	2	5,147	136	3,047	9,247
City of Tabaco	1		1,249	31	2	6,194	212	3,855	11,544
Daraga(Locsin)		1	829	46	3	4,278	120	2,536	7,813
Guinobatan			2	2	4,004	100	1,096	2,505	7,709
Jovellar	1		321	3		1,422	49	913	2,709
Legazpi City		2	1,333	13	6,690	289	145	4,158	12,630
Libon	2,526		1	3	4	2,696	78	2,847	8,155
Malilipot			431	20	2	1,866	39	1,198	3,556
Malinao			440	13	3	2,065	57	1,291	3,869
Manito	1		450	6	1	1,240	26	891	2,615
Oas				2	3,825	146	1,207	2,516	7,696
Pioduran	3	1	660	6	2	3,555	98	2,133	6,458
Polangui			434	5	2	3,475	57	1,949	5,922
Rapu-Rapu			450		1	1,952	31	1,216	3,650
Sto.Domingo (Libog)			387	9	2	1,685	74	961	3,118
Tiwi				2	2,516	37	25	1,426	4,006
<b>TOTAL</b>	<b>2,533</b>	<b>6</b>	<b>8,323</b>	<b>180</b>	<b>20,231</b>	<b>39,885</b>	<b>4,462</b>	<b>37,614</b>	<b>113,234</b>

- Started with only 2,533 beneficiaries in 2008 and lobbied for its increase to **75,600** (P 1.315bn) as of April 30, 2014. And possibly to 113,234 (P 1.785bn) in 2015.

# **AGRICULTURE & FOOD SECURITY**

- 1. Rice Self-sufficiency from 74% to 93%**
- 2. Irrigated from 17,000 hectares to 19,433 hectares**
- 3. 2nd biggest producer of camote and biggest exporter**
- 4. Largest pili hectarage at 2,972 from 1,200 has.**
- 5. On-going programs to make Albay - the GEONET CAPITAL OF THE WORLD seeking 30% or P12bn revenues versus current market leader Sri Lanka**
- 6. 15-year irrigation program targets 51,000 hectares including 3 degree slope areas**

# AGRICULTURE & FOOD SECURITY

PARTICULARS	2008	2009	2010	2011	2012	2013
Net Production (Palay)	147,291	174,165	147,422	155,340	188,532	200,088
Net Production (Rice)	95,739	113,207	95,824	100,971	122,546	130,059
Total Consumption	129,730	131,968	132,126	131,579	136,094	140,145
Population	1,190,185	1,199,706	1,201,143	1,207,149	1,215,127	1,229,343
Per Capita (mt)	109	110	110	109	112	114
<b>Sufficiency Ratio</b>	<b>74%</b>	<b>86%</b>	<b>73%</b>	<b>77%</b>	<b>90%</b>	<b>93%</b>
Sufficiency Ratio = ratio between net production (rice) and total consumption						



# ENVIRONMENT

- **Forest Cover Change, Albay Province  
(2003 vs 2010)**

Description	Land Area (Hectares)	% against total land area
Total land area	256,677.00	100%
2003 forest cover	26,298.71	10.25%
2010 forest cover	44,891.16	17.49%
<i>Forest cover change:</i>	<i>Land Area (Hectares)</i>	<i>% over total</i>
<i>Increase in forest cover in 7 years</i>	18,592.45	88%
<b>Annual rate of gross forest cover increase</b>	<b>2,656.06 ha/year</b>	<b>5.92 percent /year</b>

# ENVIRONMENT

## ■ Mangrove Reforestation, Albay Province (2009 vs 2013)

Description	Land Area (Hectares)
1950's	5,100
• 50% were converted to Fishponds	
• Leaving on 700 ha. vegetated	
2009	700
2013	2,400
<b>Increase in forest cover in 4 years</b>	<b>1,700</b>
• More than 3x mangrove forests	
Source: Gilbert Gonzales, DENR V	



# TOURISM

- Albay is the center of tourism boom in the Philippines from only 8,765 foreign tourists in 2006 (36,608 in 2007), Albay foreign arrivals are now at 383,000 of which 300,000 were added from 2010-2013.

Year	Domestic	Foreign	Tourist Arrivals
2009	187,462	48,395	235,857
2010	183,352	116,011	299,363
2011	212,256	138,373	350,629
2012	353,411	170,421	523,832
2013	535,013	339,445	874,458





# Model Relocation Sites (WB 2013, Oxford University)

- Taysan (Legazpi City)
- Banquerohan (Legazpi City)
- Sta. Monica (Legazpi City)
- Anislag Phases 1, 2,3 (Daraga)
- Baldo 1 (Daraga)
- Baldo 2 (Daraga)
- Amore (Daraga)
- Bascaran (Daraga)
- Penafrancia (Daraga)
- Pandan (Daraga)
- Cullat (Daraga)
- Balinad (Daraga)
- Banadero (Daraga)
- Tagaytay (Camalig)
- Baligang (Camalig)
- St. Francis of Assisi (Camalig)
- Mauraro (Guinobatan)
- Quitago (Guinobatan)
- Minto (Guinobatan)
- Tuburan (Ligao)
- Lanigay (Polangui)
- San Andres phases 1 & 2 (Sto. Domingo)



# Model Evacuation Centers (JICA)



# Model Evacuation Centers (AECID)

## 6 Emergency Evacuation Center from AECID:

- Daraga
- Guinobatan
- Camalig
- Ligao City





**JiCA** **JiCA**

**JiCA**

**JiCA**

**JiCA**

**JiCA**

# Team ALBAY Humanitarian Missions: 11 major deployments to Disaster Affected Areas)

1st Mission : Typhoon Frank (Fengshen) – Iloilo City on June, 2008

2nd Mission : Typhoon Ondoy (Ketsana) – Bagong Silangan, Quezon City and Cainta, Rizal on September, 2009

3rd Mission : Typhoon Juan (Megi) – Isabela on October, 2010

4th Mission : Typhoon Sendong (Washi) – Cagayan de Oro and Iligan City on December, 2011 [*also includes Christmas Treat*]

5th Mission : 6.9-Magnitude Earthquake – Guihulngan City, Negros Oriental on February, 2012 [*also includes Valentines Treat*]

6th Mission : Floods due to *Habagat* (Southwest Monsoon) – Marikina, Quezon City and Malabon on August, 2012

7th Mission : Cholera & Diarrhea Epidemic – Catanduanes on June, 2012

8th Mission : Typhoon Pablo (Bopha) – Davao Oriental and Compostela Valley on December, 2012

9th Mission : Typhoon Maring (Trami) – Laguna and Cavite on August 2013

10th Mission : 7.2-Magnitude Earthquake –Bohol on October, 2013

11th Mission : Typhoon Yolanda (Haiyan) – Leyte and Samar on November, 2013

12th Mission : Christmas Treat for Typhoon Yolanda Victims – Marabut-Basey, Samar on December, 2013



# Two National Laws

- Two national laws on DRR and CCA were based on Albay model
  - RA 10121 or **“The Philippine Disaster Risk Reduction and Management Act of 2010”** that mandates to institutionalize a Disaster Risk Reduction and Management Office aside from the Council.
  - RA 9729 or “The Climate Change Commission Law of 2009”

# DRR – CCA Knowledge Hub

- ❑ **OCD NDRRMC has designated Albay’s CCA-DRRM Training Institute (CCA-DRRM TI) as training institute as mandated in R.A. 10121 Sec. 9 “I”**
- ❑ **We have provided “observation-based” skills training to 7 countries (Laos, Myanmar, Cambodia, Vietnam, Kenya, Nigeria and Timor Leste ), while locally: 7 regions, 26 provinces, 31 cities, 210 municipalities and hundreds of barangays; and in partnerships with NGOs like CNDR -- provided training to firms and communities**



## PRONOUNCEMENT

The Office of Civil Defense in Partnership with Provincial Government offers this Training Institute as Knowledge Management on Climate Change Adaptation & Disaster Risk Reduction and Management and training ground of both local and national individual on CCA & DRRM.

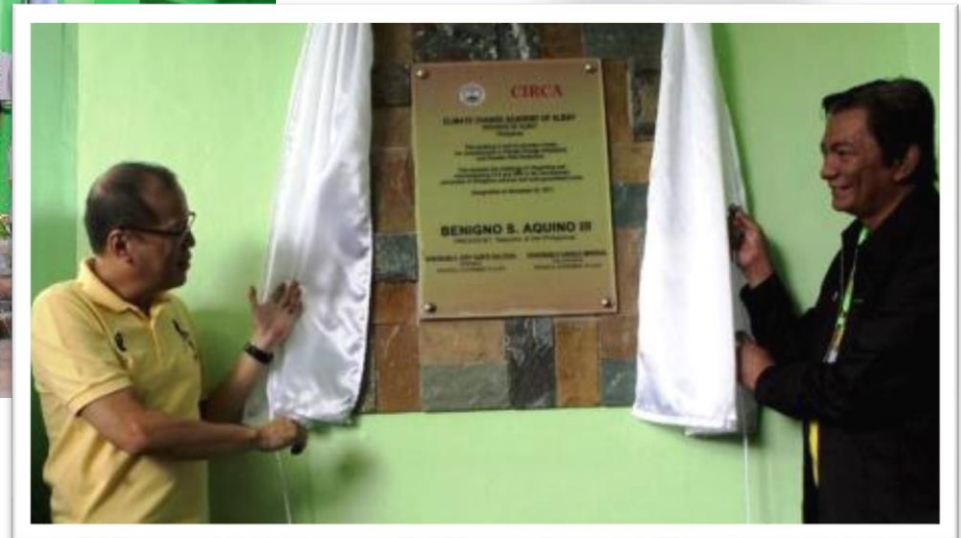


## CLIMATE CHANGE ADAPTATION AND DISASTER RISK REDUCTION AND MANAGEMENT TRAINING INSTITUTE

CCA & DRRMTI

*"Building Safer Adaptive and Disaster Resilient  
Community Towards Sustainable Development"*

BICOL UNIVERSITY COMPOUND  
LEGAZPI CITY ALBAY





# CLIMATE CHANGE ADAPTATION AND DISASTER RISK REDUCTION AND MANAGEMENT TRAINING INSTITUTE



SME in CCA & DRRM into Governance  
Governor, Province of Albay  
Co-Chairman United Nations Green Climate Fund  
Master's in Business Management, with distinction  
ASAIN INSTITUTE OF MANAGEMENT , 1990

## **1. JOSE MARIA CLEMENTE SARTE SALCEDA**



SME in National and Local Approach DRRM  
Regional Director, OCD5  
Master's in Peace and Securities Studies

## **2. DIR. BERNARDO R. ALEJANDRO IV**



SME in LGU approach on DRRM  
Department Head, PGA-APSEMO  
Doctor in Public Administration

## **3. DR. CEDRIC D. DAEP**



SME in DRRM and Policies  
Consultant ,Climate Change Academy

## **4. DIR. BLANDINO M. MACEDA**



SME in Mainstreaming DRR into Education  
and Curriculum  
SUC President IV, Bicol University

## **5. DR. FAY LEA PARTIA M. LAURAYA**



SME in CCA & DRR on Environment  
Regional Executive Director, DENR 5

## **6. RED GILBERT C. GONZALES**



SME in Earthquake and Volcanic Hazard  
Resident Volcanologist, SRS -PHIVOLCS

## **7. MR. EDUARDO LAGUERTA**



SME in Hydro-Metrological Hazard and Warning  
System  
Chief and Science Research Specialist, PAGASA

## **8. DR. LANDRICO U. DALIDA, JR.**



SME in Geological Hazard and Multi Hazard  
Mapping  
Supervising Geologist, MGB 5

## **9. MS. ARLENE DAYAO**



SME in DRR on Health Sector  
Regional Director, DOH 5

## **10. DR. GLORIA J. BALBOA**



SME in Health and Emergency Management  
Coordinator, BRRTH-HEMS

## **11. DR. ERICK RABORAR**



SME in Military Operations on DRR  
Brigade Commander, 901st PA

## **12. COL RAUL M FARNACIO PA (GSC)**

## **GUEST COURSE INSTRUCTORS**



SME in Incident Management System  
Training Officer, MMDA

## **13. MR. RYAN CASTANEDA**



SME in Incident Management System  
Fire Chief, SBMA

## **14. MR. RANNY MAGNO**

## **SUBJECT MATTER EXPERTS**

# AWARDS

- ❑ **Senior Global Champion for DRR awarded by UN-ISDR during the AMCDRR**
- ❑ **Best Province in Local Governance by DILG in 2010-2013 by DILG**
- ❑ **Most Outstanding Disaster Response Award (2013) for Team Albay from Publishers Association of the Philippines (PAPI)**
- ❑ **Gawad Kalasag Hall of Fame Award (2012), for the Province of Albay for Best Disaster Risk Reduction and Management Council for three consecutive years (2009 to 2011)**





The record of Albay lies in the consistency and cohesion of good governance, socially desirable and desirably ambitious goals for human development, innovations in programs and projects both in social and economic dimensions of development, productivity in resource utilization and allocation, and verifiable milestones in achievement of goals esp. early achievement of MDGs, participatory planning and execution sets Albay apart from all LGUs under this administration and in recent history.

– National Selection Committee

14 sections / Vol. 28 / No. 100 918

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BALANCED NEWS. FEARLESS VIEWS

DEPARTMENT OF THE INTERIOR AND LOCAL GOVERNMENT

**GAWAD PAMANA NG LAHI**

Award of Excellence in Local Governance

The Province of Albay, the City of Vigan, and the Municipality of Carmona, Cavite are this year's national awardees for the Gawad Pamana ng Lahi or GPL.

GPL is a total award system conceptualized by the Department of the Interior and Local Government (DILG) through the Bureau of Local Government Supervision (BLGS) to recognize provincial, city and municipal governments that show exemplary performance in governance.

Albay, Vigan and Carmona went through a highly competitive selection and validation process, along with other regional awardees in the first level assessment and with other national finalists in the second level assessment before bagging the award. The multi-sectoral and select Board of Judges was composed of representatives from the DILG, Union of Local Authorities of the Philippines (ULAP), civil society organizations, national government agencies, local resource institutions and the academe.

Criteria for the award are as follows:

- The LGU must be an **SGH Silver recipient**, being a recipient of the Seal of Good Housekeeping Silver Award as an indication of transparent and accountable governance; it particularly looks at the following elements: (1) Full disclosure of financial documents; (2) No adverse opinion by the Commission on Audit; (3) Compliant to procurement policy, i.e. posting in PHIGEPS; and (4) Passer of the Anti-Red Tape Acceptance Card Survey designed by the Civil Service Commission.
- The LGU must achieve a **High Overall Performance Index in the Local Governance Performance Management System or LGPMS**. The LGPMS is a total performance measurement tool which looks at the capacity of local governments in various areas of governance such as administration, local legislation, revenue generation and resource utilization, social governance, economic governance and environmental governance.
- The LGU must showcase innovations that lead to better service delivery.
- The LGU must be a recipient of a **National or International Award in Governance**.

For demonstrating exemplary performance in local governance, Regional and National Winners of the Gawad Pamana ng Lahi (GPL) are given incentives through the Performance Challenge Fund (PCF) aside from automatically receiving the Seal of Good Housekeeping (SGH) assessment. National GPL winners each receive a cash prize of P5Milion, while regional awardees bag P1Milion, P2Milion and P1Milion for the province, city and municipality categories, respectively.

With the Gawad Pamana ng Lahi, we expect more LGUs to practice participative, responsive, transparent and accountable local administrations in the delivery of essential services for every Filipino.

**GAWAD PAMANA NG LAHI 2012 NATIONAL AWARDEES, NATIONAL FINALISTS AND REGIONAL AWARDEES**

NATIONAL AWARDEES			
Province of Albay	City of Vigan	Municipality of Carmona, Cavite	
NATIONAL FINALISTS			
PROVINCE	CITY	MUNICIPALITY	
Cavite Iloilo Nueva Vizcaya	Makati City Puerto Princesa City Sanjago City Tacurong City	Atilao, Iloilo Jagna, Bohol Mankayo, Compostela Valley San Nicolas, Ilocos Norte	
REGIONAL AWARDEES			
REGION	PROVINCE	CITY	MUNICIPALITY
I	Pangasinan	Vigan City	San Nicolas, I Norte
II	Nueva Vizcaya	Santa Rosa City	San Nicolas, Ilocos Norte
III	Tarlac	San Carlos City	San Nicolas, Ilocos Norte
IV-A	Cavite	Batangas City	Carmona, Cavite
IV-B	Palawan	Puerto Princesa City	Sablayan, Occ. Mindoro
V	Albay	Ligao City	Trini, Albay
VI	Negros Occidental	Rolito City	Anilag, Rolito
VII	Bohol	Dumaguete City	Jagna, Bohol
VIII	Laguna	Tacloban City	No RGPI Awardee

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# AWARDS

- ❑ **Galing Pook Award for the Province of Albay for its Health Strategy towards the Early Attainment of the Millennium Development Goals [MDG] (2011)**
- ❑ **Galing Pook Award for the Province of Albay for its Outstanding Governance Program on Disaster Preparedness (2008)**



## DILG, SPANISH AID AGENCY TEAM UP TO REPLICATE ALBAY DRR STRATEGY

Written by Tribune Friday, 20 June 2014 00:00 font size Print Be the first to comment!

The Department of Interior and Local Government (DILG) and the Spanish Agency for International Development Cooperation or AECID have teamed up to replicate Albay's successful Disaster Risk Reduction (DRR) strategy in at least 10 provinces of the country.

Gov. Joey Salceda said the DILG-AECID-Albay team aims to transform the 10 chosen provinces to the standard set by Albay in DRR and at the same time further fortify Albay's already global standard DRR management capability. Albay is UN's DRR global model.

Essentially, Salceda said the project would have five components — training, technical assistance, equipment, infrastructure and IT-based early warning system. The sixth component is the reinforcement of Albay, being the model local government unit.

The P84-million budget includes a P74 million loan and a P10 million grant, all from the Spanish government through AECID (Agencia Espanola de Cooperacion Internacional para el Desarrollo).

Salceda said the Albay Climate Change Academy-Disaster Risk Reduction Management Training Institute perfectly fits the requirements of the first two components, training and technical assistance. He had recommended the project initially starts in Catanduanes, Pangasinan and Pampanga.

For the project's third component — equipment, Salceda said the water filtration machine and its truck lorry carrier, are critical requirements. Albay had made use of these equipments in the past, in both local post disaster response and in helping other disaster stricken areas, for which the province had received various national humanitarian awards.

The fourth component, which is infrastructure, concerns evacuation centers, of which Albay had already built several units. They are specially designed buildings that serve both as school rooms and evacuation centers, he said.

The fifth component, the IT-based early warning, is also something Albay has pioneered in partnership with Smart Telecommunications. It is an app designed as a fast communication and warning system using cellular phones during disasters. It is aptly

## → DILG, AECID TEAM-UP TO REPLICATE ALBAY DRR STRATEGY IN 10 PROVINCES


THE Department of the Interior and Local Government (DILG) and the Spanish Agency for International Development Cooperation (AECID) have teamed up to replicate Albay's successful disaster-risk reduction (DRR) strategy in at least 10 provinces of the country.

Albay Gov. Joey Salceda said the project, with an P84-million budget, responds to the need for a more effective disaster-mitigation and -response strategy in the country, which was severely felt, following the onslaught of Super typhoon Yolanda last year.

Salceda said the DILG-AECID-Albay team aims to transform the 10 chosen provinces to the standard set by Albay in DRR and, at the same time, further fortify Albay's already

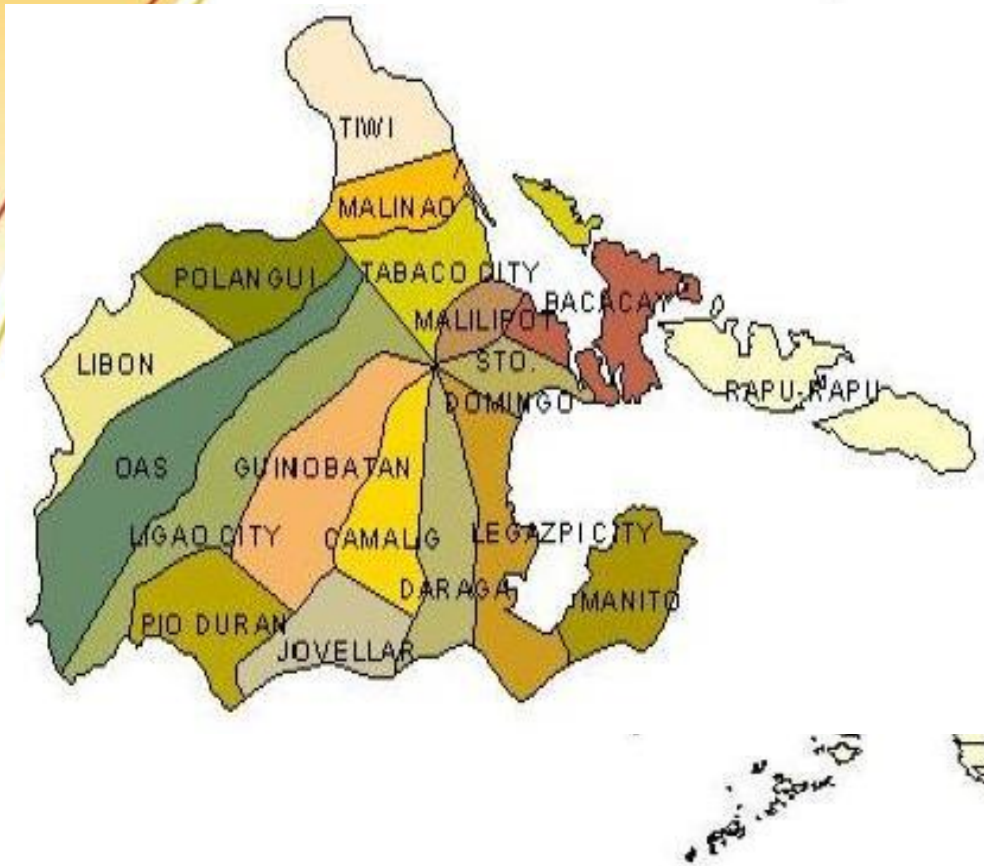
# MAJOR PROVINCIAL INFRA PROJECTS INITIATED; PREPARED FS, SECURED RDC/CABCOM APPROVAL; SECURED FUNDING AND BUDGET STRATEGY

1	Bicol International Airport	4.7bn
2	GuiCaDaLe Geostrategic Relocation	4.4bn
3	Almasor Tourism Roads	3.6bn
4	San Fernando-Oas-Daraga Road	1.8bn
5	Legazpi Urban Flood Control	1.4bn
6	Guinobatan-Jovellar-Donsol Road	878m
7	Albay West Coast Road	874m
8	Cagraray Circumferential Road	600m
9	PRDP- Oas Cagmanaba Road	550m
10	Palarong Pambansa 2016 Facilities Upgrading	530m
11	BRTTH Modernization	500m
12	Daraga-Donsol Road	300m
13	Manito-Bacon Road	300m
14	Pioduran-Donsol Road	300m
15	Albay Agri Tourism and MRH	240m
16	ONE-STEP USAid-DOT-DSWD	210m
17	Kalahi-CIDSS PLGU	200m
18	BUPC Modernization	200m
19	Bicol University College of Medicine	75m
20	Albay Agro Ethno Eco Village	75m
21	Rail Stations Modernization	50m

- 
- ☑ Multi-hazards: climate and geological
  - ☑ Persistent poverty
  - ☑ Net resource hemorrhage

## **THE CHALLENGE**

## Province of ALBAY



- ❑ Land Area = 2,566 sq. km.
- ❑ Population = 1,233,432  
(May 2010)
- ❑ Households = 231,750
- ❑ 3 legislative districts; 3 cities, 15 municipalities
- ❑ 2<sup>nd</sup> largest Province in the Bicol Region
- ❑ 4 major islands (CRaBS)
- ❑ Total coastline of 364 kms with 149 coastal barangays and 128,751 people



# KNOW YOUR RISKS

- 19 to 21 occurrences of typhoon per year in the Philippines of which 3-5 major direct hits on Province of Albay.
- About 198,000 houses threatened by wind destructions and at least 350,000 people have to evacuate.
- Mayon Volcano eruption threatens 3 cities and 5 municipalities
- 127 villages or 11,000 to 12,000 families threatened by landslides
- About 300,000 population out of 1.2M threatened by tsunami
- Eight municipalities and two cities threatened by floods.

**Vatican of  
Disasters**

# Disaster Risk Ranking of Albay

Type of Disaster Risk	Type of Hazard	Ranking
Climate Weather Related	(Historical) Typhoons	5 <sup>th</sup>
	(Projected) Rainfall Increase	1 <sup>st</sup>
	(Projected) Temperature Increase	16 <sup>th</sup>
	(Historical) El Nino	54 <sup>th</sup>
Geophysical (History)	Earthquake-Induced Shallow Landslides	1 <sup>st</sup>
	Earthquakes	59 <sup>th</sup>
	Tsunami	1 <sup>st</sup>
	Volcanic Eruptions	2 <sup>nd</sup>

- ☑ Make it (zero casualty, MDGs, SDGs) goal, the rest follows
- ☑ Ordain policies
- ☑ Give it a budget
- ☑ Execute programs and projects
- ☑ Build institutions
- ☑ Nurture partnerships / mobilize resources

## **THE STRATEGY**

# DRR/CCA Execution Strategy of Albay

- ✓ **Make MDG a goal, adaptation follows**
  - **Good goals**
    1. socially desirable
    2. desirably ambitious
- ✓ **Ordain policies**
- ✓ **Give it a budget**
- ✓ **Execute programs & projects**
- ✓ **Build institutions**
- ✓ **Nurture partnerships & mobilize resources**

- **safe and shared development**
  - MDG achievement
  - HDI improvement
  - Climate-proofed and disaster- proofed (HFA)
- **Zero casualty goal**

- Body of SP ordinances
- 2 national laws on DRR and CCA were based on Albay model (RA 10121 & RA 9729)

- Incremental budget on top of calamity fund
- Budget increase on Education and Health from 15% to 44%

- Disaster risk reduction
- Climate change adaptation
- Strategic shift to human capital formation (health and education) from physical capital formation

- **APSEMO** – Response, 1994
- **CIRCA** – Adaptation, mitigation and IEC, 2007
- **AMDGO** – Social Services / MDG, 2009
- **Climate Change Academy** – Knowledge Mgmt, 2010

- P894m raised from 2007 to 2011, P398m from JICA in 2012 and P30m from OCD

# Vision

- ❑ **Albay as most liveable province** known for good schools, good hospitals and good environment and **Albayanos as healthy and happy**, well-educated and well-trained people and taller and **leave a better living conditions to future generations**
  - ❑ Low-rise, low-energy intensity = low carbon development
  - ❑ Safe and shared development= sustainable and climate-resilient
- ❑ **Ultimate Goals:**
  - ❑ Life expectancy: 68.76 (Ph) to 74 (Thai) in 30 years beginning 2007
  - ❑ Change in height: looking for the science

# Resources for Institutionalized DMO

- **Permanent office: APSEMO**
  - Created in 1994 by ordinance in 1994 with regular plantilla of 25 including emergency research and disaster specialists.
  - First in the Philippines and First in Asia
  - has managed and survived disasters [including 7 governors!]
- **Sources of Funds**
  - Regular allocation from the annual provincial budget (IRA) separate from CF
  - Access to calamity fund for the operations 5% of IRA
  - Intermittent but steady flow of technical and logistical assistance from NG agencies, NGOs and INGOs for capacity building and skills training

# Resources for Institutionalized DMO



# Resources for Institutionalized Climate Office

- **Program office: CIRCA**

- created by ordinance in 2007 with regular provincial budget
- Implement MDG-F JP
  - Localized climate scenario
  - climate-proof CLUP
  - Integration of climate change into curriculum (Gr 4 to 4<sup>th</sup> year)
- Advocacy and knowledge management
  - National Conference on Climate Change Adaptation (2007, 2009)
  - LGU Summit (2010)
  - Climate Change Academy
    - Disaster City
    - Climate sciences center at Bicol University

- **Sources of Funds**

- Regular allocation from the annual provincial budget (IRA)
- P16m from MDG-F JP
- Intermittent but steady flow of technical and logistical assistance from NG agencies, NGOs and INGOs for capacity building and skills training



# Resources for Institutionalized Training

- **Program office: CCA-DRRM Training Institute**
  - Began as Climate Change Academy initiated by UNDP, CCC and Provincial Govt of Albay
  - **OCD NDRRMC has designated Albay's CCA-DRRM Training Institute (CCA-DRRM TI) as training institute as mandated in R.A. 10121 Sec. 9 "i"**
  - Office inaugurated by President Noy Aquino and visited by Queen Sofia of Spain
  - A knowledge hub or institution for knowledge management
    - **We have provided skills training to 7 countries (Laos, Myanmar, Cambodia, Vietnam, Kenya, Nigeria and Timor Leste ), while locally -- 7 regions, 26 provinces, 31 cities, 210 municipalities and hundreds of barangays; and in partnerships with NGOs like CNDR -- provided training to firms and communities**
- **Sources of Funds**
  - Regular allocation from the annual provincial budget (IRA)
  - Implement P5m from DENR and P30m from OCD

# Resources for Institutionalized MDG Office

- **Program office: AMDGO**
  - created by ordinance in 2009 with regular provincial budget
  - Oversight to MDG performance and secretariat to MDG Supercom
  - Management MDG projects
    - Manages relocation program
    - Social assets programs esp livelihood like SEA-K, ETODA
    - CRABS or coastal and marine resources management
    - AIDS Council – HIV/AIDS advocacy
- **Sources of Funds**
  - Regular allocation from the annual provincial budget (IRA)
  - Intermittent but steady flow of technical and logistical assistance from NG agencies, UNDP and other UN offices, INGOs, NGOs for capacity building and skills training

# Albay MDG Supercom

## EXECUTIVE ORDER NO. 2009-05

### CREATING THE PROVINCIAL MDG COMMITTEE IN SUPPORT TO THE MILLENNIUM DEVELOPMENT GOALS

**WHEREAS**, In September 2000, member states of the United Nations gathered at the Millennium Summit to affirm commitments towards reducing poverty and the worst form of human deprivation;

**WHEREAS**, to achieve the Millennium Development Goals (MDG) member states must get additional financial resources from both domestic and external sources, formulate policies and set up an institutional environment that will ensure that the resources are used efficiently and effectively;

**WHEREAS**, achievement of the MDG targets largely depends on the timely and effective delivery of devolved basic services by LGUs since they constitute a significant portion of public expenditure decisions at the local level;

**WHEREAS**, meeting the requirements of the MDGs requires the concerted efforts of major stakeholders – the national and local government sectors and the sector through related interventions get reflected in the local development agenda;

**WHEREAS**, LGUs are the primary delivery mechanism of programs, projects and activities that are consistent with the MDGs;

**WHEREAS**, the Millennium Development Goals (MDGs) are measurable goals and targets that require discrimination against work that leads to environmental degradation;

**WHEREAS**, the Millennium Development Goals (MDGs) have targets and 48 indicators as

### Section 2.5 MDG Secretariat

1. Take minutes of the meetings of the MDG Committee and MDG Sub-Committees.
2. Collect and collate data from the different sub-committee of the 8 goals.
3. Prepare reports of the MDG Committee and MDG Sub-Committee.

... and submit to concerned agencies, for the realization of each particular project or activity. The MDG Sub-Committee shall hold regular quarterly meetings by the Chairman and Sub-Committee heads.

... activities may be funded through internal and external sources and the implementation of programs, projects and activities shall be subject to regular monitoring and auditing rules.

... to take effect immediately and shall be enforce until further order.

Done at Legazpi City, Province of Albay.

  
JOEY SARIE SAICEDA  
Governor

Section 2.1 MDG Unit/ Sub-Committee

Section 2.2 MDG Unit/ Sub-Committee

Section 2.3 MDG Unit/ Sub-Committee

Section 2.4 MDG Unit/ Sub-Committee

Section 2.5 MDG Secretariat

Section 2.6 MDG Unit/ Sub-Committee

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Section 2.99 MDG Unit/ Sub-Committee

Section 3.00 MDG Unit/ Sub-Committee

Indicator	Target	Actual	Remarks
1. National Government Expenditure on Education	100%	100%	
2. National Government Expenditure on Health	100%	100%	
3. National Government Expenditure on Social Services	100%	100%	
4. National Government Expenditure on Infrastructure	100%	100%	
5. National Government Expenditure on Environment	100%	100%	
6. National Government Expenditure on Agriculture	100%	100%	
7. National Government Expenditure on Transportation	100%	100%	
8. National Government Expenditure on Communication	100%	100%	
9. National Government Expenditure on Science and Technology	100%	100%	
10. National Government Expenditure on Disaster Preparedness	100%	100%	
11. National Government Expenditure on Cultural Activities	100%	100%	
12. National Government Expenditure on Sports and Recreation	100%	100%	
13. National Government Expenditure on Social Security	100%	100%	
14. National Government Expenditure on Housing	100%	100%	
15. National Government Expenditure on Urban Development	100%	100%	
16. National Government Expenditure on Environmental Protection	100%	100%	
17. National Government Expenditure on Energy	100%	100%	
18. National Government Expenditure on Information and Communication Technology	100%	100%	
19. National Government Expenditure on Space and Aeronautics	100%	100%	
20. National Government Expenditure on Other	100%	100%	

# Resources for Institutionalized Training

- **Program office: Emergency Paramedic Training Institute**
  - Initiated by Bicol University, DOH-BRTTH and Provincial Govt of Albay
  - Organic unit of Bicol University
  - Funded by AECID-PGA
  - Training of EMTs with certifications from DOH and TESDA
- **Sources of Funds**
  - Training grants earmarked for EMT
  - Provincial Govt, DOH



# Resources for Institutionalized External Missions

- **Program office: Team Albay – OCD V**
  - Assisted OCD V and national government in 12 humanitarian situations
  - First on the ground during Yolanda
  - Provision of:
    - Search and Rescue and Retrieval (half of cadavers in Yolanda)
    - Water filtration and delivery (1.4m liters delivered in Yolanda)
    - Camp Management
    - Health Emergency Services
    - Operation of Pharmacy
    - Operation of Hospital (Cateel)
    - Operation of Public Health Operations (Yolanda)
    - Post Disaster Health Intervention System
    - Advisory to LGUs on PDNA (SAMAR)
    - Advisory to LGUs on ERRPs (SAMAR, Leyte)
- **Sources of Funds**
  - Provincial DRRMF Fund
  - Assistance from int'l NGOs

**Publishers Association of the Philippines, Inc.**

Suite 511 Marbella II Condominium,  
Roxas Blvd., Ermita Manila



**MOST OUTSTANDING  
DISASTER RESPONSE AWARD**

conferred on

**TEAM ALBAY- OCD V**

*in recognition of its prompt, timely, comprehensive and well organized response to the devastation in Leyte and Samar by monstrous Super typhoon Yolanda, as well as its demonstrated selfless and generous humanitarian services during various times of disasters and calamities that have not only saved lives but also inspired survivors to pick up their shattered lives, move on, and get themselves reintegrated as productive members of mainstream society.*

*In Tacloban City, Team Albay hit Ground Zero at time when lives could still be saved, and promptly undertook search, rescue and retrieval operations. It was the first response to the disaster from outside and was in fact the most organized response amidst extreme chaos.*

GIVEN this 21st day of February 2014 during the 18th National Press Congress of the Publishers Association of the Philippines, Inc. held in Cauayan City, Isabela, Philippines.

**SHERLY MALLARIASPREC**  
Board Secretary

**MACARTHUR DAQUIRO**  
Conference Coordinator

**NELSON S. SANTOS**  
Conference Director

**LUIS T. ARRIOLA**  
President

**TEAM ALBAY**

Organized in 2009 by Atty. Gen. Joey Salceda primarily as a home emergency response group, Team Albay, which is a volunteer response group composed of specially trained organic elements from various national government agencies including the Office of Civil Defense in Region V (OCD V), has since responded and rendered humanitarian relief services throughout the country. Its 11th every reason was in Leyte and Samar in November 2013 in the aftermath of monstrous Super typhoon Yolanda. With 17 vehicles and related equipment, Team Albay was among the very first to hit Ground Zero at the crucial time when lives could still be saved. It promptly undertook search, rescue and retrieval operations, distribution, health and medical services, sanitary and sheltering, stress and psychological (PTSD) debriefing, and water purification and potable water provision for the disaster survivors.

In Tacloban City, it proved to be the most organized response in the disaster area.

Team Albay spent Christmas Eve in Cebu and headed Noche Buena for Yolanda survivors in devastated Batangas, Marikina and San Antonio in Davao, Eastern Samar. That goes on record as Team Albay's 10th mission.

Since 2009, Team Albay has undertaken (including) humanitarian missions in various regions of the country headed by coordinators, as follows: 2009, 2008, Typhoon Frank; Metro Manila, 2009, Typhoon Typhoon Orling; Isabela, 2010, Typhoon Paping; Cagayan de Oro, 2011, Typhoon Sendang; Gullungan, City in Negros Occidental, 2012, E. R. T. H. G. U. A. K. E.; Cebu, 2012, Christmas epidemic; Samar, 2012, Earthquake; Compostela Valley and Davao, 2012, Typhoon; Metro Manila, 2013, Habagat; Laguna and Cavite, 2014, Habagat; Bohol, 2014, GAB; 2013, Samar, Leyte and Samar, 2013, Typhoon Yolanda.

In all these missions, Team Albay carried out 96 humanitarian services with utmost dedication and commitment to save lives, care for those in need and to grieve, and assured the victims and survivors they would not despair because there is always someone to care for them.

**PAPI to award Team Albay for 'Yolanda' response; Salceda as Filipino of the Year**

**T**HE Publishers' Association of the Philippines Inc. (PAPI) will honor humanitarian group Team Albay with a Most Outstanding Disaster Response Award in the aftermath of Super typhoon Yolanda (international code name Haiyan), and Gov. Joey Salceda, the team's creator, as 2013 Filipino of the Year.

PAPI President Luis T. Arriola said Team Albay richly deserves the honors if only for its consistent emergency response and humanitarian assistance to disaster victims and calamity-stricken areas in the country for the past six years, most particularly the heavily devastated Eastern Visayan provinces of Samar and Leyte.

Arriola said Salceda's 2013 Filipino of the Year award is in recognition of his international achievements during the year, particularly his recent election as chairman of the \$100-billion United Nations Green Climate Fund where he represents Southeast Asia and the developing countries.

The award, he added, likewise, honors his "pioneering and effective advocacy for Climate Change Adaptation (CCA) and creative Disaster Risk Reduction (DRR) programs that have now been adopted by other local government units and national government agencies; his gutsy and innovative leadership and signature brand of sound and responsive public governance that has vastly expanded tourism and the economy of his province, and his outreach humanitarian assistance to millions of Filipino calamity victims in various regions through disaster-response Team Albay."

Through Salceda's pioneering initiatives, Arriola noted, Filipinos, particularly local and national government leaders, have realized the need and urgency of the CCA-DRR in the country. The United Nations has declared him as its senior global champion and spokesman in CCA-DRR and Albay as its Global Model.

The awards will be conferred during PAPI's 18th National Press Congress scheduled on February 20 and 21, 2014, in Cauayan City, Isabela, where Team Albay undertook a massive humanitarian mission in the wake of Typhoon Paping in 2010. PNA



**TA tops in Yolanda response**

**ENVIRO-WATCH**  
The United Nations has designated Atty. Gen. Joey Salceda and Albay as its Global Model.

The awards would be conferred during PAPI's 18th National Press Congress slated Feb. 20-21, 2014 in Cauayan City, Isabela where TA undertook a massive humanitarian mission in the wake of typhoon Paping in 2010.

Arriola said Salceda's 2013 Filipino of the Year award is in recognition of his international achievements during the year, particularly his recent election as chair of the \$100-billion UN Green Climate Fund where he represents Southeast Asia and the developing countries.

The governor immediately dispatched TA with its complement of 17 personnel and related equipment to include a lorry-mounted water purifying machine, to Eastern Visayas, hours after Yolanda struck.

Salceda's 2013 Filipino of the Year award is in recognition of his international achievements during the year, particularly his recent election as chairman of the \$100-billion United Nations Green Climate Fund where he represents Southeast Asia and the developing countries.

Salceda organized TA in 2008, primarily as a home disaster response group. It had since then undertaken challenging humanitarian missions in various regions of the country through the calamities, as follows: 2009, Typhoon Orling; Metro Manila, 2009, Typhoon Chikang; Bohol, 2010, Paping; Cagayan de Oro, 2011, Typhoon Sendang; Gullungan, City in Negros Occidental, 2012, Earthquake; Compostela Valley and Davao, 2012, Typhoon; Metro Manila, 2013, Habagat; Samar, Leyte and Samar, 2013, Typhoon Yolanda.



**Albay keeps honors winning streak in 2014**

After amassing a stream of awards and citations for good public governance performance and achievements in 2013, Albay seems to sustain its awards winning streak this year.

The Publishers Association of the Philippines, Inc. (PAPI) will honor the popular humanitarian Team Albay with a Most Outstanding Disaster Response Award for its prompt response to the devastation by Super typhoon Yolanda in the Visayas, and Albay Gov. Joey Salceda as its 2013 Filipino of the Year.

The awards will be conferred during PAPI's 18th National Press Congress slated February 21-22, 2014 in Cauayan City, Isabela where Team Albay saw action in 2010 in the wake of Typhoon Paping.

Hours after Yolanda struck, Salceda promptly dispatched Team Albay-OCD V to Leyte and Samar with its complement of 179 trained experts in various disaster operations aspects, backed by 17 vehicles and related equipment including a lorry-mounted water purifying machine. It was the first well-coordinated disaster operations from outside, and hit Ground Zero in Tacloban City when lives can still be saved, Arriola said.

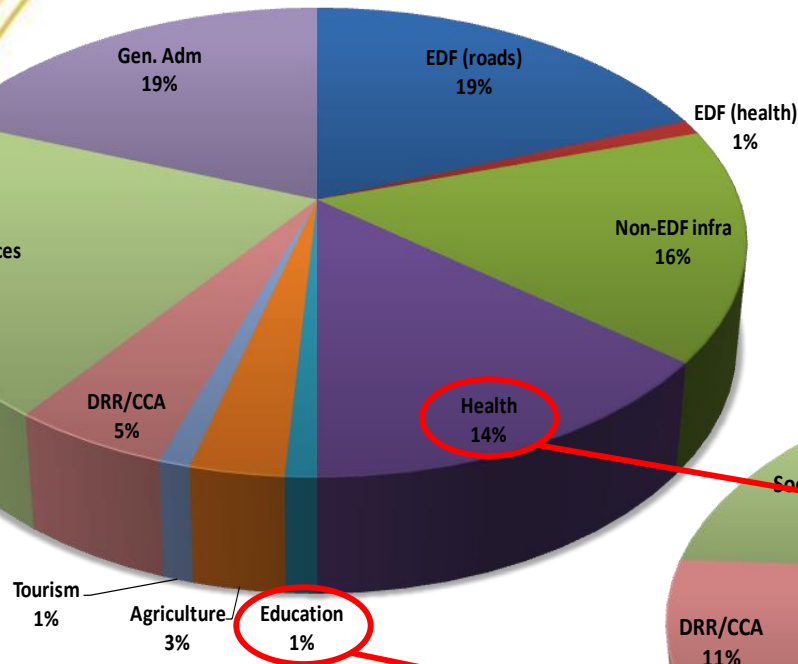
Salceda and Team Albay spent Christmas Noche Buena with Yolanda survivors in Basay, Eastern Samar, distributing relief goods and gifts to children. Already a tradition, they have also spent Christmas in Cagayan de Oro after Typhoon Sendang in 2011, in Cated, Davao Oriental after Typhoon Pablo in 2012, and a Valentine's party in Gullungan, Negros Oriental in 2013.

On record, Team Albay was the first to raise the Philippine flag in Tacloban City after Yolanda, the first coordinated effort to restore corpses, the first to open a gasoline station, the first to provide potable drinking water to survivors, and the first organized sign of its outside help upon arrival. It immediately undertook search, rescue and retrieval operations, medical and health services; relief distribution, stress debriefing, sanitary engineering and water purification and provision for the survivors.

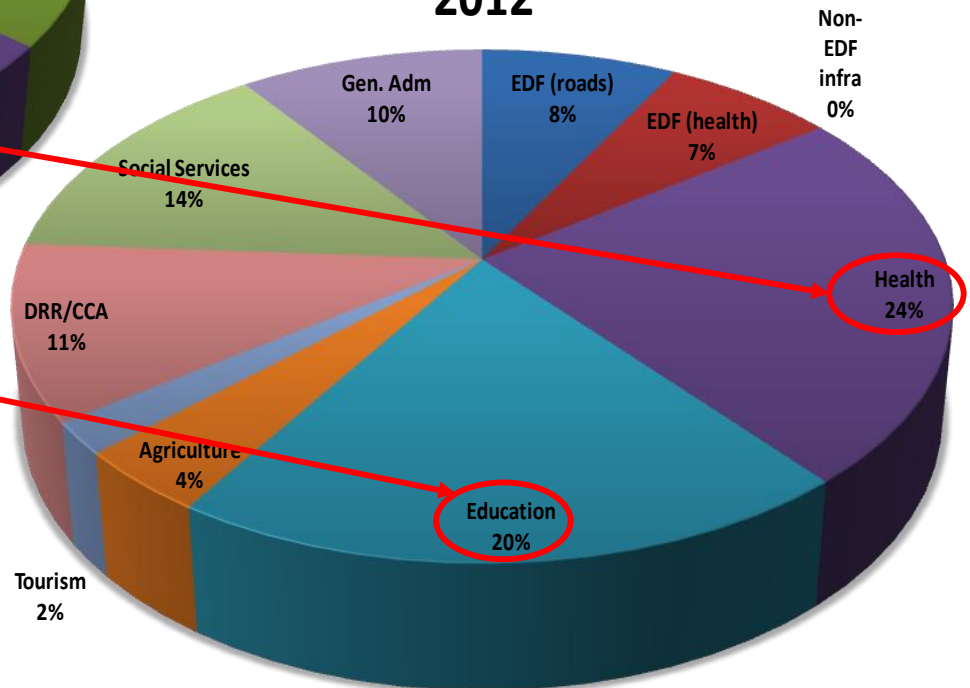
# Albay Provincial Budget

## more budget in Health and Education

2007



2012



# 2011 ALBAY PROVINCIAL BUDGET: 9% earmarked for adaptation but whole budget is sensitized to CCA/DRR

Item of Expenditure	Amount	%
<b>Personnel Services</b>	302	38%
<b>of which</b>		
10% increase	27	3%
14th month + P12,000	24	3%
Regular Salaries	251	31%
<i>Mem Health PS</i>	139	17%
<b>MOOE</b>	127	16%
<b>of which</b>		
Health MOOE	57	7%
Regular MOOE	70	9%
Jail MOOE	10	1%
<b>Programs</b>	337	42%
<b>of which</b>		
Counterpart to Bgys (P101T x 720 bgys)	73	9%
Counterpart to LGU programs (ARCDP, Kalahi)	30	4%
Scholarship	37	5%
Universal Philhealth	34	4%
Tourism Development	16	2%
CIRCA/A2C2	15	2%
Apsemo / Disaster Risk Reduction	16	2%
Calamity Fund	38	5%
Integrated Social Services	16	2%
Agricultural Production	24	3%
Other capex	38	5%
<b>Debt Service</b>		
Debt Servicing	38	5%
<b>TOTAL</b>	804	100%

The budget is the best articulation of public policy and instrument for its execution.

## Highlights

- 9% of regular budget for adaptation
- Entire budget is ADAPTATION budget
  - 24% for health
  - 2% for social services
- 3% for agriculture

## Internal sources:

- IRA
- Royalties geothermal

## External sources:

- UNDP/AECD- P16m
- BSWM- P5m



1. DEPT OF HEALTH (DOH)	2010-2011	3,000,000.00
2. DEPT OF HEALTH (DOH)		10,000,000.00
3. DEPT OF SOCIAL WELFARE & DEVELOPMENT (DSWD)		14,000,000.00
4. NCA - DBM		5,000,000.00
5. PCA		5,000,000.00
6. DBM		10,000,000.00
7. DEPT OF AGRICULTURE		20,000,000.00
8. DEPT OF HEALTH (DOH)		24,203,000.00
9. PAS		
10. SLRF		
11. NIA		
12. NCCA - DBM		
13. LGA-AIDS		
14. DBM		
15. PCSO ASSISTED ENDORSEMENT FUND PROGRAM		
16. PGA-NEDA MOA(LGU-SUMMIT)		
17. PAS-PCCARD		262,238.00
18. TF CALAMITY FUND		22,535,242.48
19. CRDESDA		366,000.00
20. DEPT OF HEALTH (DOH)		1,305,000.00
21. PCSO		66,201.06
22. ECCD - EARLY CHILD REC DEVT		2,091,846.83
23. BSWM		147,964.61
24. GAWAD KALASAG AWARD		50,000.00
25. DEPT OF AGRICULTURE CORN PRODUCTION		564,489.75
26. SEA-K MICRO FINANCING PROGRAM		33,400.00

**P894m mobilized  
from partners  
(July 2007-Dec 2011)**

27. DEPT OF AGRICULTURE		250,059.75
28. MOA NAT'L & LOCAL GOV'T COUNTERPARTING FOR CLASS-ROOM CONSTRUCTION		86,000,000.00
29. DOTC- INT'L AIRPORT		23,000,000.00
30. DOTC		13,000,000.00
31. DEPT OF HEALTH (DOH)		1,800,000.00
32. DBM		1,000,000.00
33. DBM (NAT'L SUMMIT HEALTH REG.)		
		3,649,200.00
		5,000,000.00
		42,000,000.00
		150,000,000.00
		55,000,000.00
		20,000,000.00
		6,100,000.00
43. DBM		20,000,000.00
44. HOSPITAL UPGRADING PROJECT OF DOH		363,606.50
45. DBM		3,000,000.00
46. DBM		1,000,000.00
47. HEALTH FACILITIES ENHANCEMENT PROGRAM		66,670,000.00
48. AGRI REHAB-RICE/HUCC	2012	3,500,000.00
49. AGRI REHAB-CORN PROD.	2012	7,000,000.00
50. AKO BICOL PARTY LIST	2012	4,150,000.00
52. PCSO	2012	2,000,000.00
<b>TOTAL</b>		<b>894,002,742.62</b>

# Highlights of DRR/CCA Programs

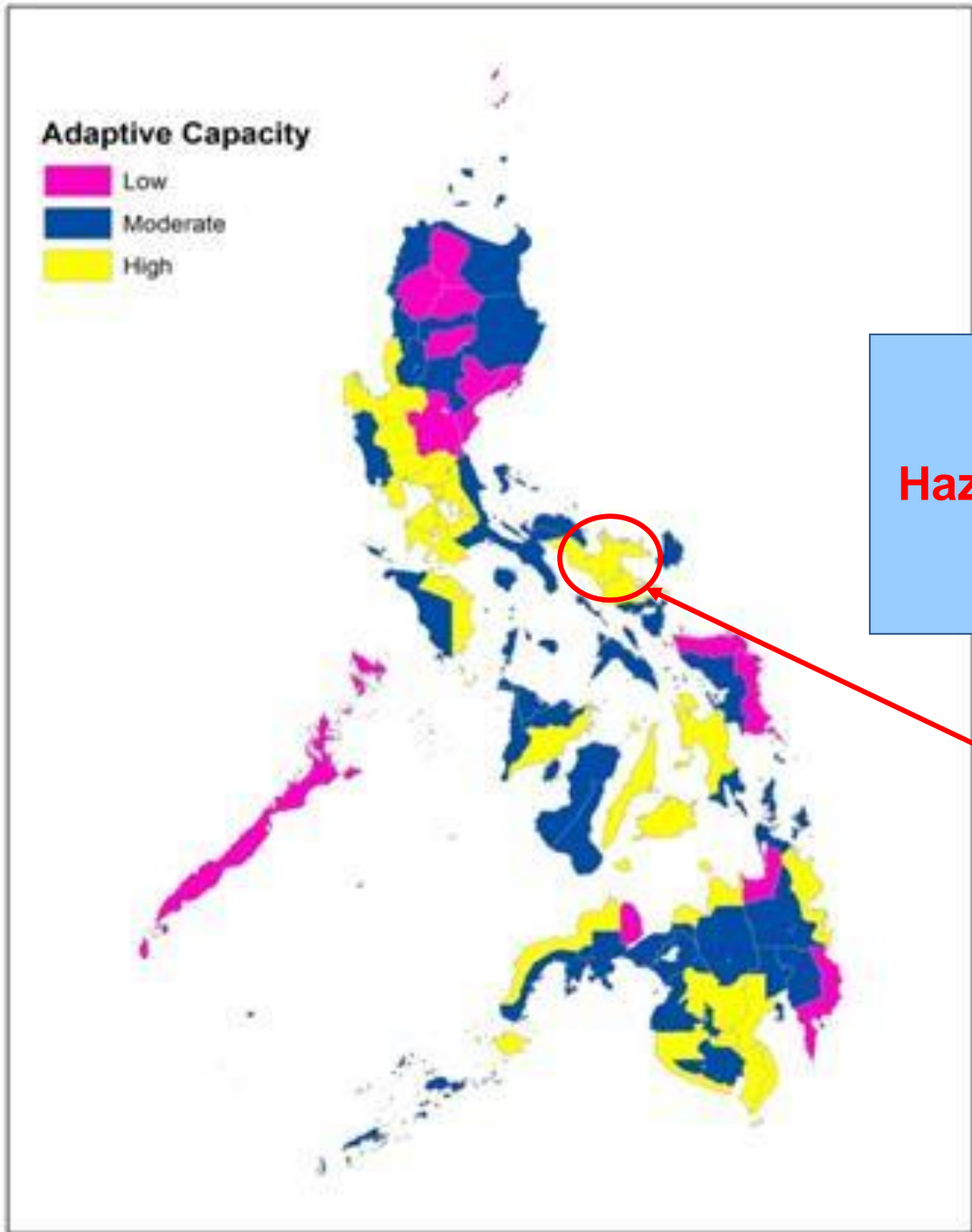
- **Risk Mapping**
  - Comprehensive Land Use Plans
- **Integration into PDP, PDIP, AIP, PPMP**
- **Geostrategic Intervention**
- **Relocation**
- **Engineering Interventions**
- **Social Preparations**
  - Community-based Warning and Evacuation Planning
  - Close coordination with Warning Agencies
- **Capacity Build-up**
  - Mobility Assets
  - Permanent Evacuation Center
- **Disaster Response**
  - Pre-emptive Evacuation
  - Pre-emptive Healthcare
- **Cluster Approach to Early Recovery**

# Risk Reduction: Risk Mapping

- **Risk mapping**
  - Risk mapping is a common resource to all phases of DRR- risk mitigation, preparedness, damage assessment, response, relief and recovery
- **Sources of Funds:**
  - **PHIVOLCS**
    - Earthquake mapping
    - Volcanic Hazard Mapping
    - REDAS training for LGUs
    - Tsunami
  - **PAGASA**
    - Flood Mapping
  - **Mines and Geo-Sciences Bureau**
    - Landslide mapping
  - **Manila Observatory**
    - Mudflow (Lahar) mapping
  - **Component LGUs (but technical assistance from province)**
    - Population and Resource Mapping
    - Comprehensive Land Use Plan

# PLUC deliberating STO. DOMINGO CLUP



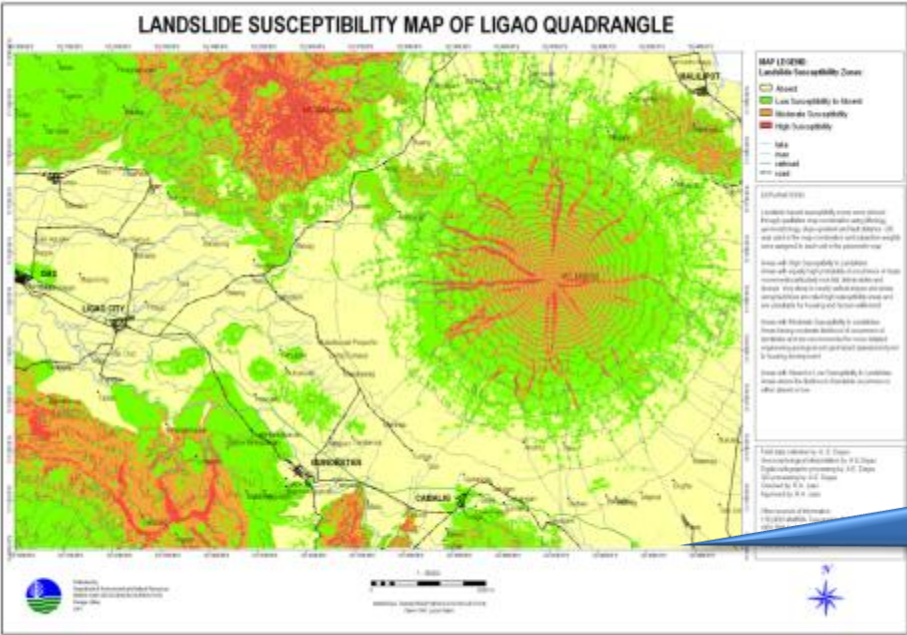
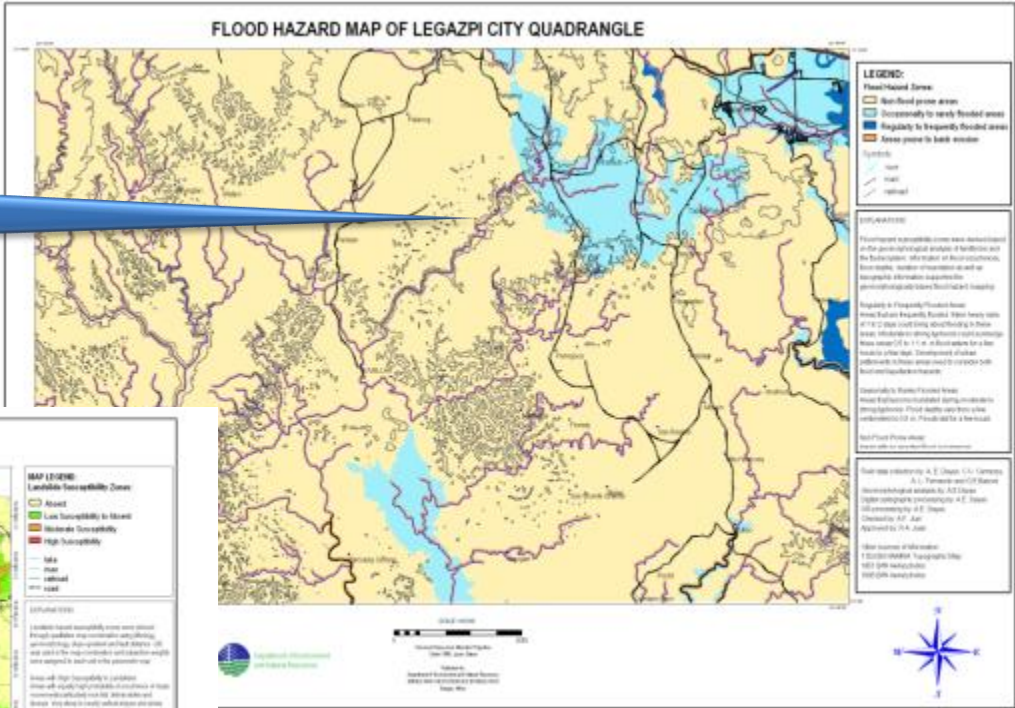


$$\text{Risk} = \frac{\text{Hazard} \times \text{Exposure}}{\text{Capacity}}$$

**ADAPTATION =**  
Increasing capacity so that development can proceed in the midst of risks

# Hazard Maps

Legazpi FLOOD Map

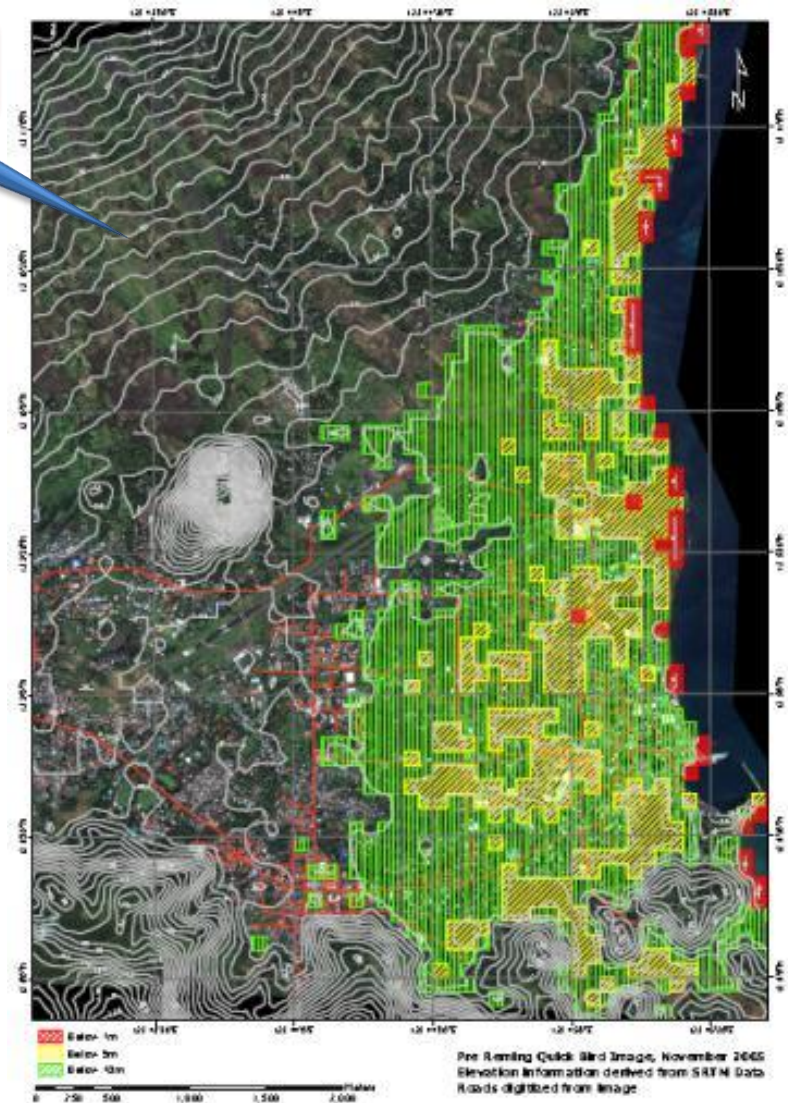


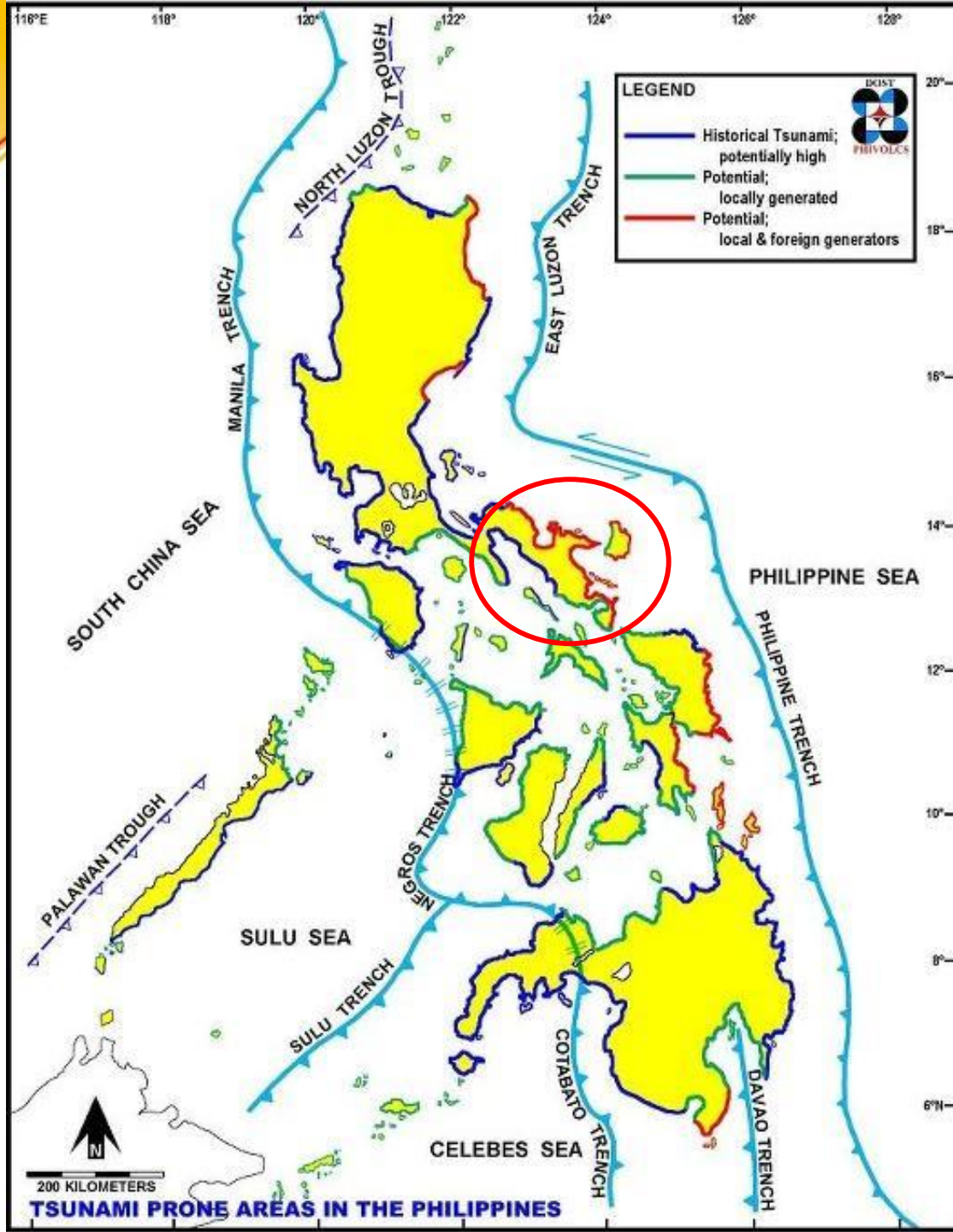
Ligao LANDSLIDE Map

# Earthquake /Tsunami Hazard Map

FAULTS

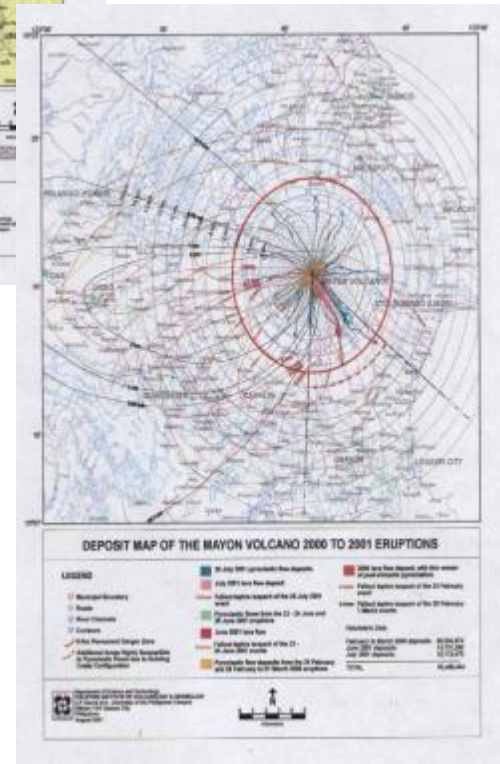
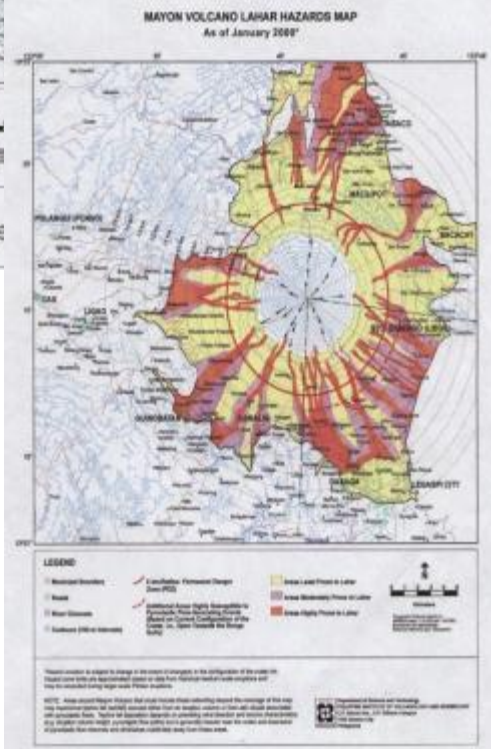
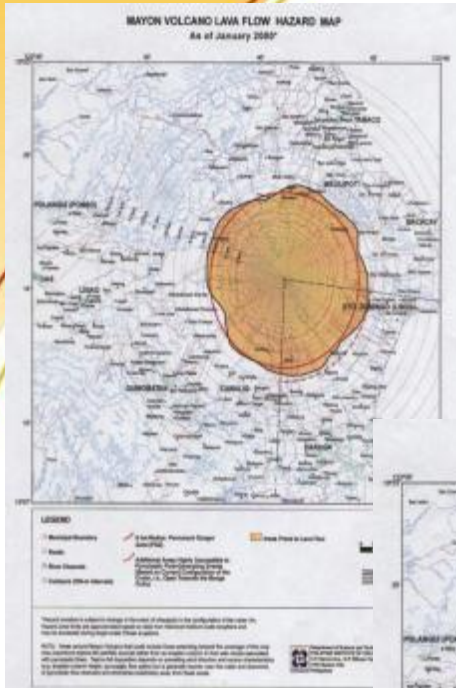
TSUNAMI



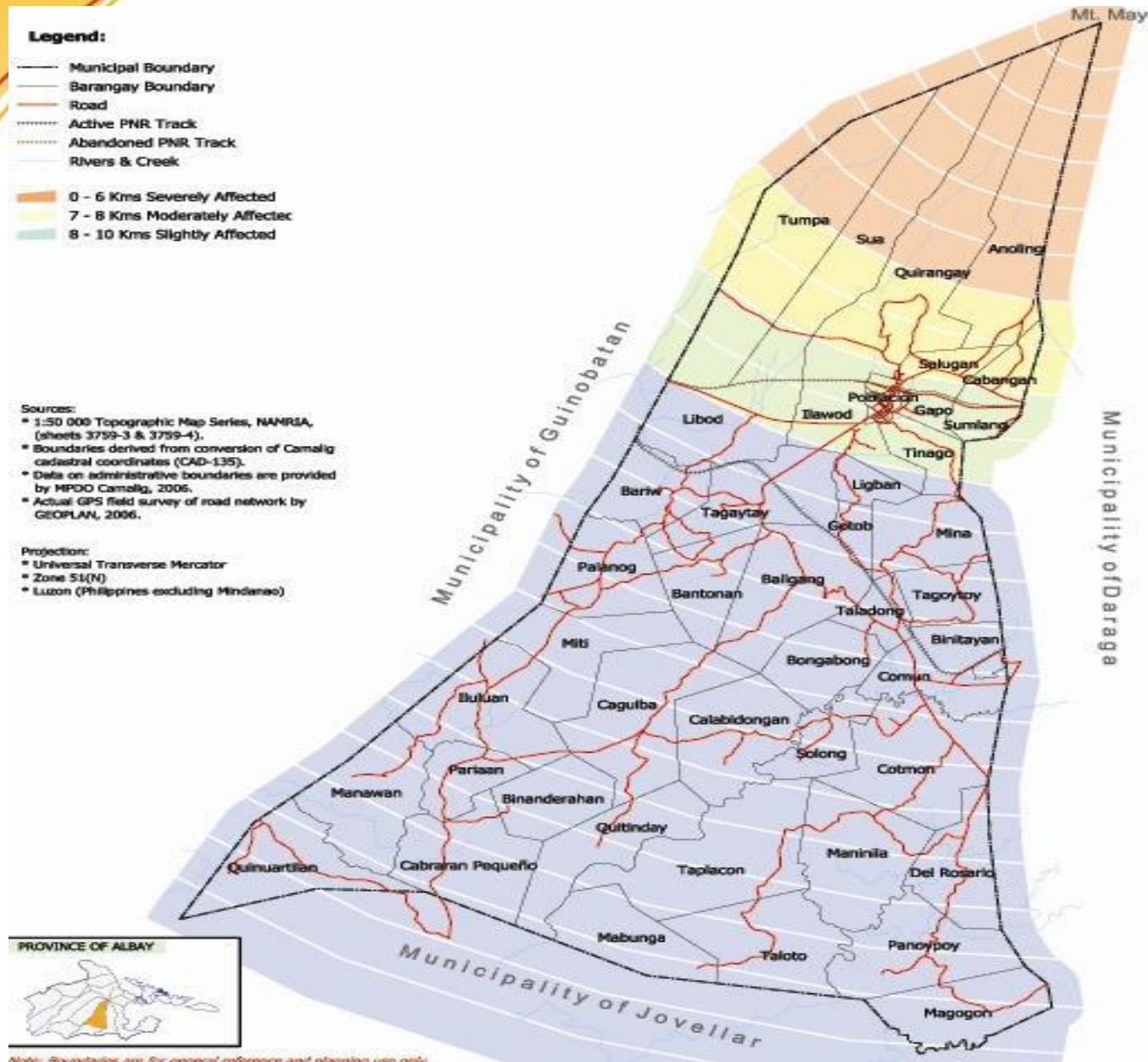




# Volcanic Hazard Map



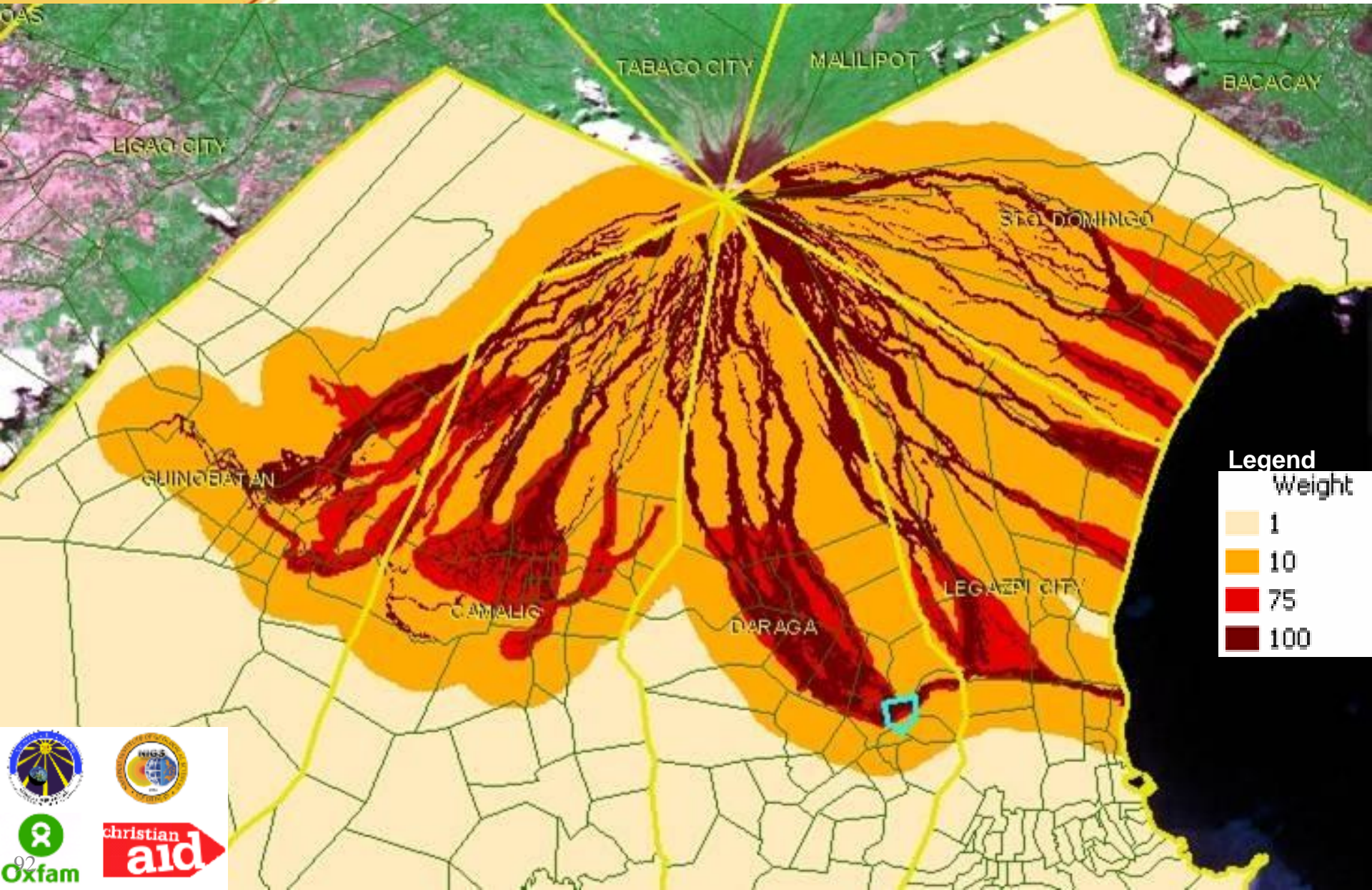
# Hazard Mapping



# Lahar Hazard Map



# Lahar Hazard Map



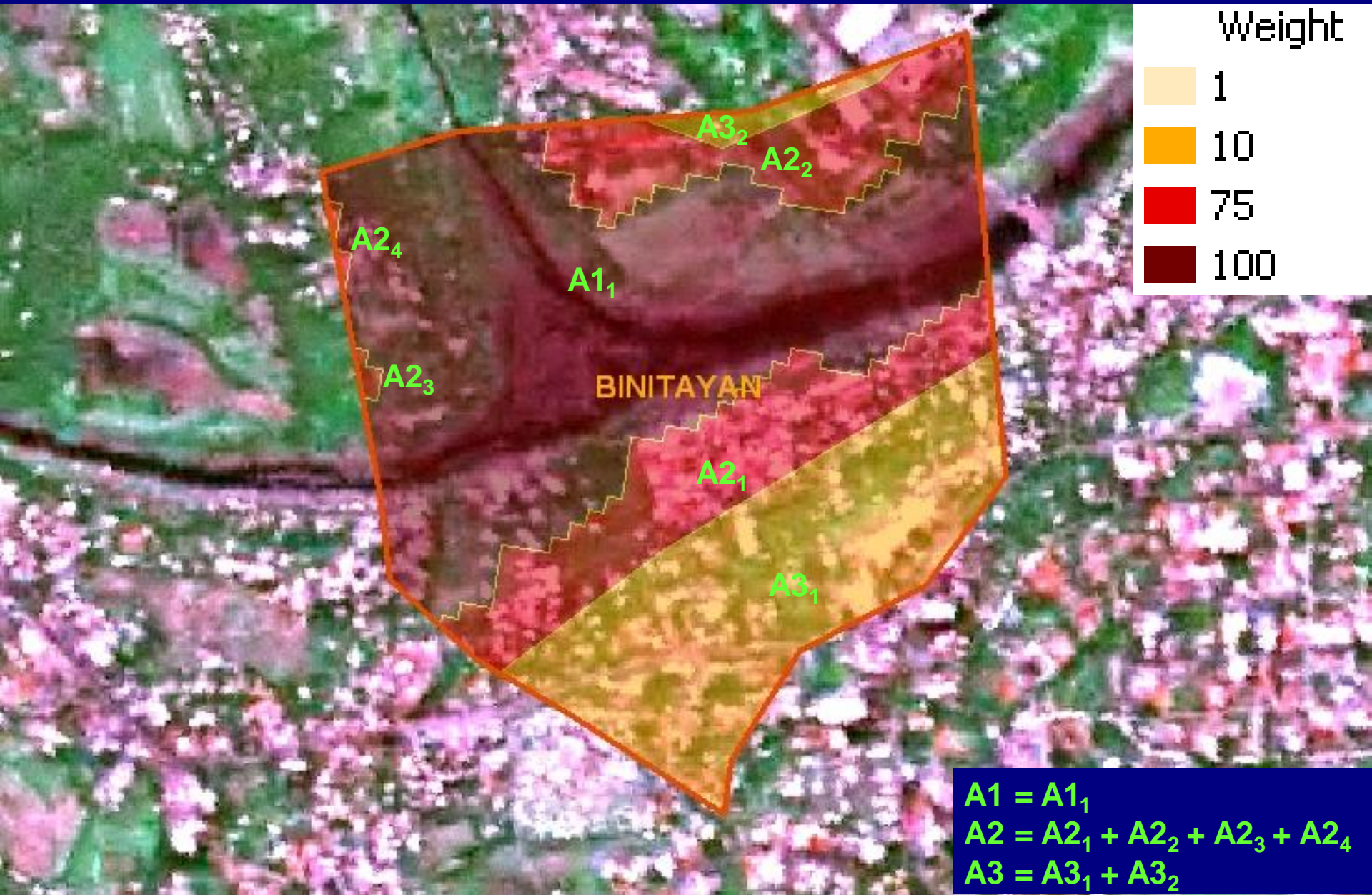
## Legend

Weight

- 1
- 10
- 75
- 100

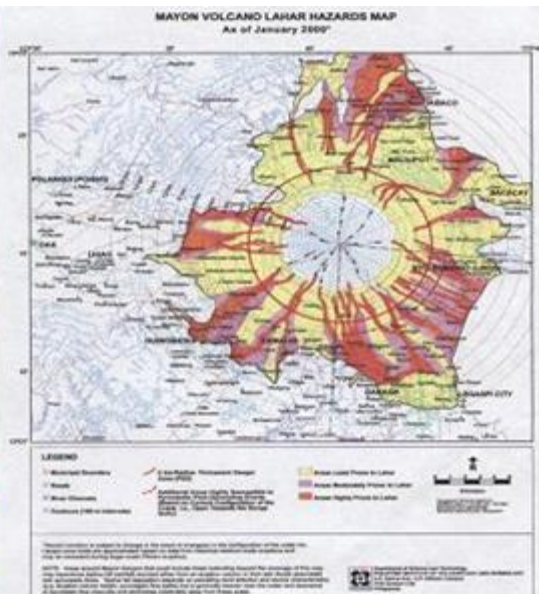
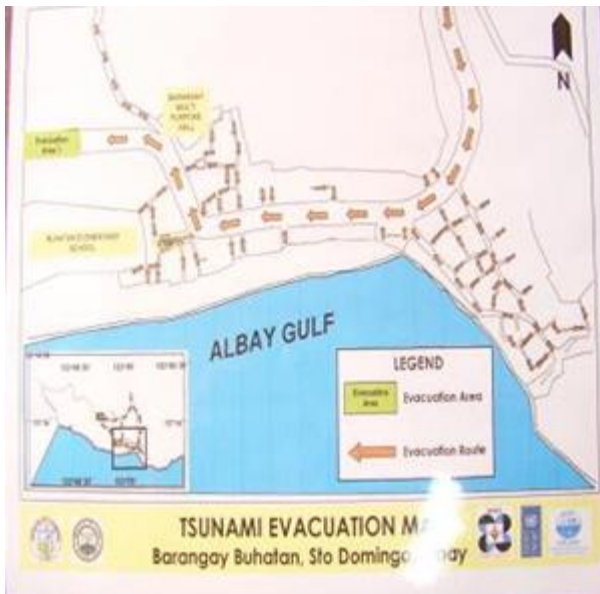


$$\text{HAZARD SCORE} = \Sigma(w^2 \times \text{Area})$$



$$\text{LAHAR HAZARD SCORE} = 100^2 (A1) + 75^2 (A2) + 10^2 (A3)$$

# Community-based Risk Mapping



# Resources for Social Preparations

- **Continuous Training and Education**

- **Components**

- Household preparedness
    - Community preparedness (first responder capacity)
    - LGU preparedness (first integrator)
    - Skills development for government and volunteers
    - Warning System Communication Protocol and Evacuation Procedures
    - Evacuation and Community Kitchen Management
    - Mountain Survival and compass reading
    - Critical Incidence Stress Debriefing
    - Community Risk Mapping and Contingency Planning
    - Education-On-Air with local broadcast media
    - Conduct of drills and exercises in schools, hospitals, hotels, malls and communities to pre-test the hazard specific contingency plan on volcanic eruption, earthquake typhoon and fire
    - Continuous and Periodic Education and Training

- **Source of Funds**

- Regular annual provincial budget

# Community Training and Seminar



**TAGAS VULNERABILITY / CAPABILITY ASSESSMENT**

VULNERABILITY	CAPABILITY
1. FLOOD PROMED NEAR YAWA RIVER	1. MOST RESIDENTS HAVE CELLPHONES AND OTHER MEANS OF COMMUNICATION
2. MORE OR LESS 30 DISABLED RESIDENTS	2. MOST RESIDENTS WERE ABOVE AVERAGE IN INCOME LEVELS
3. PRONE TO TRAFFIC ACCIDENTS DUE TO LACK OF TRAFFIC LIGHTS	3. PRESENCE OF VARIOUS BUS ESTABLISHMENTS
4. LACK OF STREET LIGHTS	4. NEAR THE TOWN / PROPER
5. INADEQUATE DRAINAGE SYSTEM	5. CENTER OF HEALTH SERVED BY RESIDENTS PHYSICIAN AND 1 HEALTH WORKERS
6. LACK OF WATER FACILITIES FOR DRINKING & KITCHEN CONSUMPTION	6. CENTER OF RELIGIOUS SET
7. TRACES OF ABSEY DUE TO LANDSLIDE APPEARANCE	7. NEAR TO THE AIRPORT
8. JUVENILE DELINQUENCY	8. WITH 2 STOREY BARS & HALL
9. WITH CASES OF MALNUTRIMENT	9. HAS MOBILE PHONES
10. ZONE PARK WITH INADEQUATE ROAD SYSTEM	10. SUFFICIENT IN BREAD



# Community-based Disaster Preparedness and Response Activities (Organizing, Education and Trainings)

Capacity must be  
Localized Hazard  
Awareness  
Refreshers

Workshops on  
DRR Activities by  
APSEMO for at  
least two  
barangays per  
day year-round

Training on  
Warning  
System  
Communication  
Protocol  
And Evacuation  
Procedures



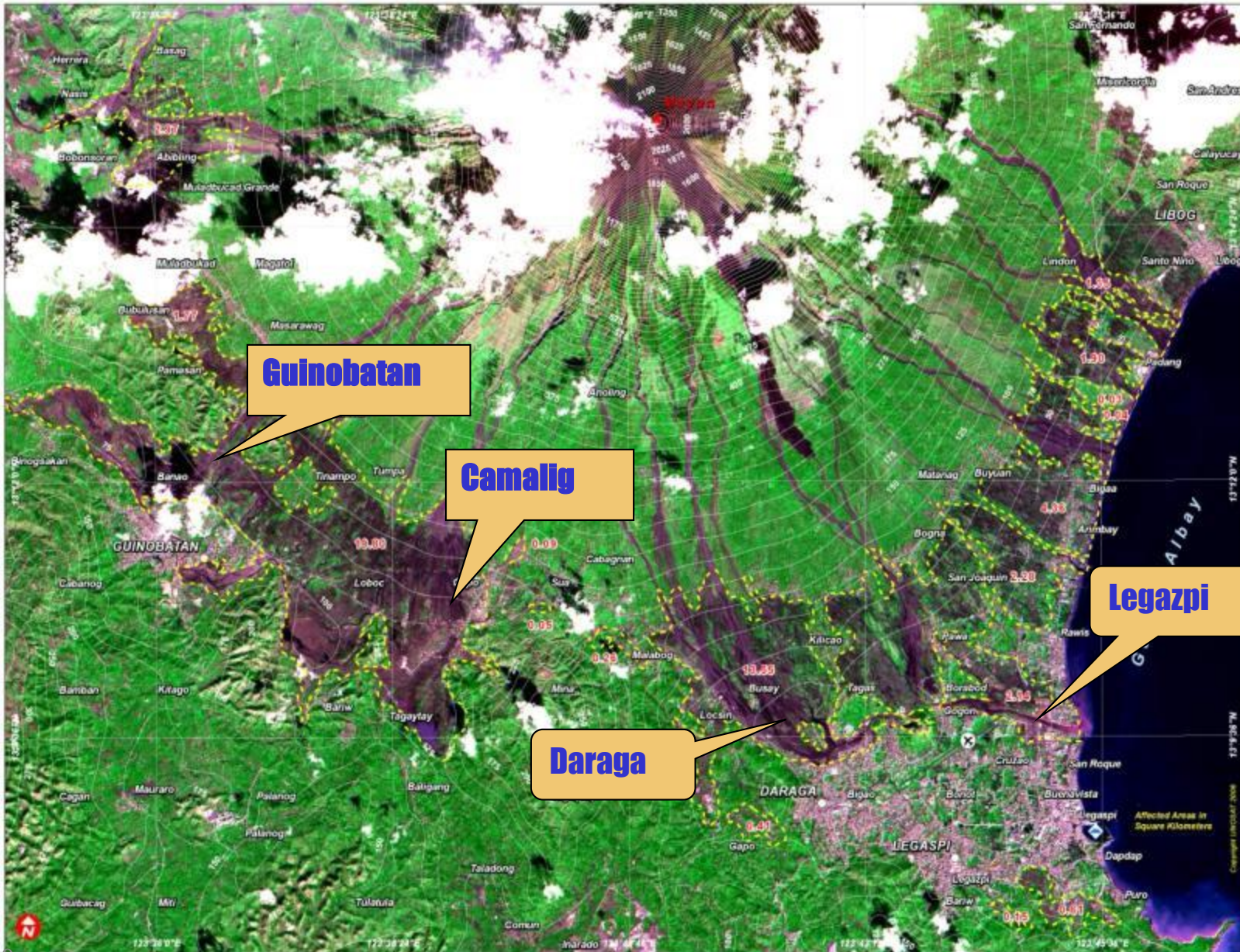
# Resources for Risk Reduction: Geostrategic Intervention

- **Geostrategic Intervention: Guicadale Economic Platform**
  - Both the flagship economic project and main DRR strategy of Albay
  - Redirection of centers of business and residential activities towards safe area
  - Components:
    - **Relocation of 10,076 households** in high-risk areas
      - Cost- P2bn for 8 resettlement sites
      - Source of Funding- NHA, province, INGOs
    - **New international airport** (ongoing)
      - Cost- P4.9bn
      - Source of Funding- DOTC national government
    - **Road networks**
      - Cost- P1.3bn
      - Source of Funding- Organic annual budget of DPWH, national transfers, JICA, multi-year from 20% economic development fund of the province
    - **New government center**
      - Cost- P176m
      - Source of Funding- province to acquire via long term loan from Philippine Veterans Bank

# Overview of Flooding & Mudslide Damage Surrounding Mt. Mayon Volcano, Albay Province, Philippines

Satellite Identified Damage from Typhoon Durian Using SPOT-5 Imagery Recorded on 12 December 2006

18 December 2006  
Version 1.0  
Glide No: TC-2006-000175-PHL



**Map Information**

This map illustrates the approximate areas of flooding and mudslide damage resulting from Typhoon Durian ("Reming") surrounding Mt. Mayon Volcano, Albay Province, Philippines. Damage identification has been done using SPOT-5 satellite imagery recorded on 12 December 2006 and Landsat imagery from 2002, and has not yet been validated in the field. The affected areas in square kilometers are labeled in red. The depiction and size of boundaries, geographic names and related data shown here are not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. This map was produced by the United Nations Institute for Training and Research (UNITAR) Operational Satellite Applications Programme (UNOSAT). UNOSAT provides satellite imagery and related geographic information to UN humanitarian and development agencies and their implementing partners.

**Map Legend**

- ▲ Mt. Mayon Volcano
- ★ Capital
- ✕ Airfield
- Town
- Province Boundary
- ~ Contour (25m)
- Yellow Dotted Area Flooding & Mudslide Areas
- Red Dotted Area Typhoon Track
- Urban Area
- Landslide / Flood Path
- Vegetation Cover
- Water Body

**Map Scale for A3**  
Prints 1:65,000

0 200 400 600 800 1000 1200 1400 Meters

Glide Number: TC-2006-000175-PHL  
Satellite Image: SPOT-5 (2.5m) 12/12/2006  
Image Copyright: UNOSAT 2006  
Distribution By: UNOSAT  
GIS Data: GIST, INGA, DCHS  
Map Production: UNOSAT 18 December 2006  
Projection: UTM Zone 50N WGS 1984

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satellite imagery for all  
www.unosat.org  
Contact Information: info@unosat.org 247  
tel: +63 2 887 4874

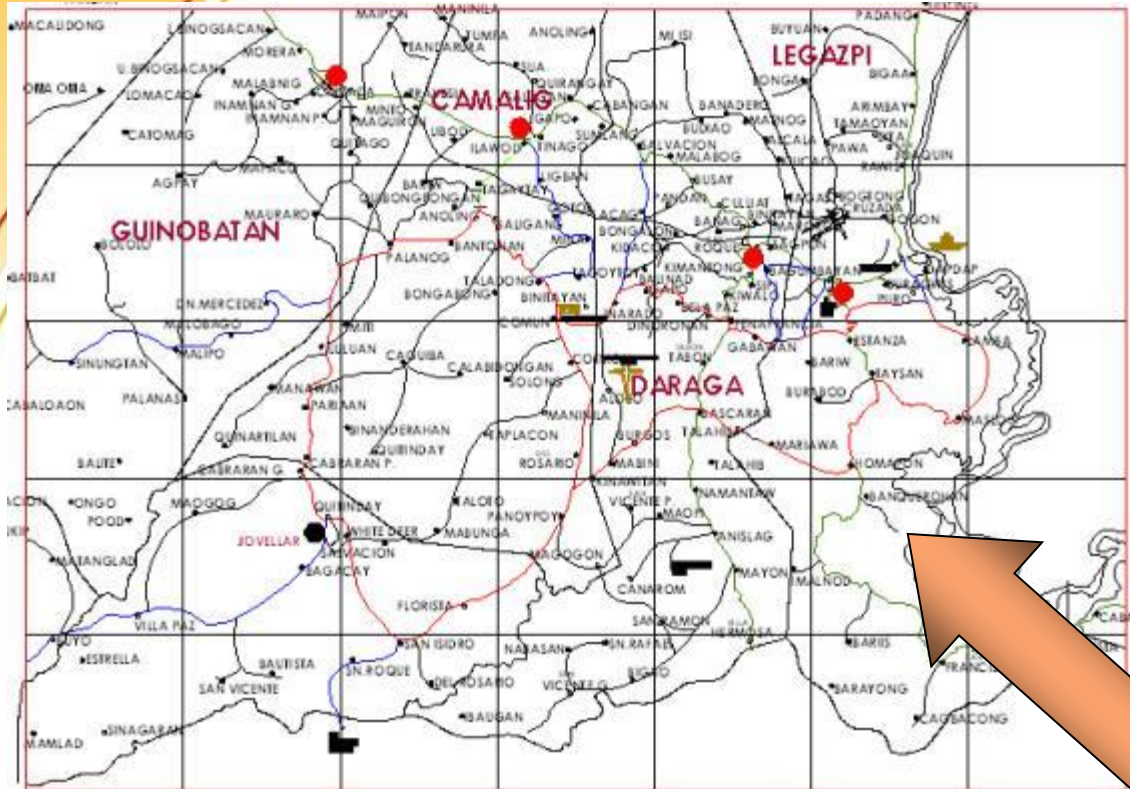
**Guinobatan**

**Camalig**

**Daraga**

**Legazpi**

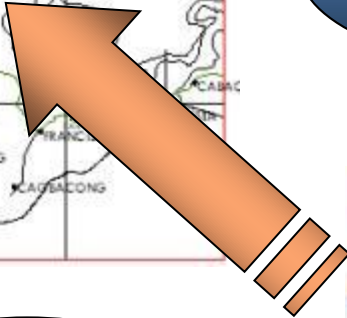
# GUICADALE ECONOMIC PLATFORM



DRR w/o  
DISASTER



ECONOMIC  
EXPANSION



DRR  
MEASURES



INVESTMENTS



LIGAO  
RESETTLEMENT  
PROJECT

CAMALIG  
RESETTLEMENT  
PROJECT

STO. DOMINGO  
RESETTLEMENT  
PROJECT

TAYSAN  
RESETTLEMENT  
PROJECT

MAURARO  
RESETTLEMENT  
PROJECT

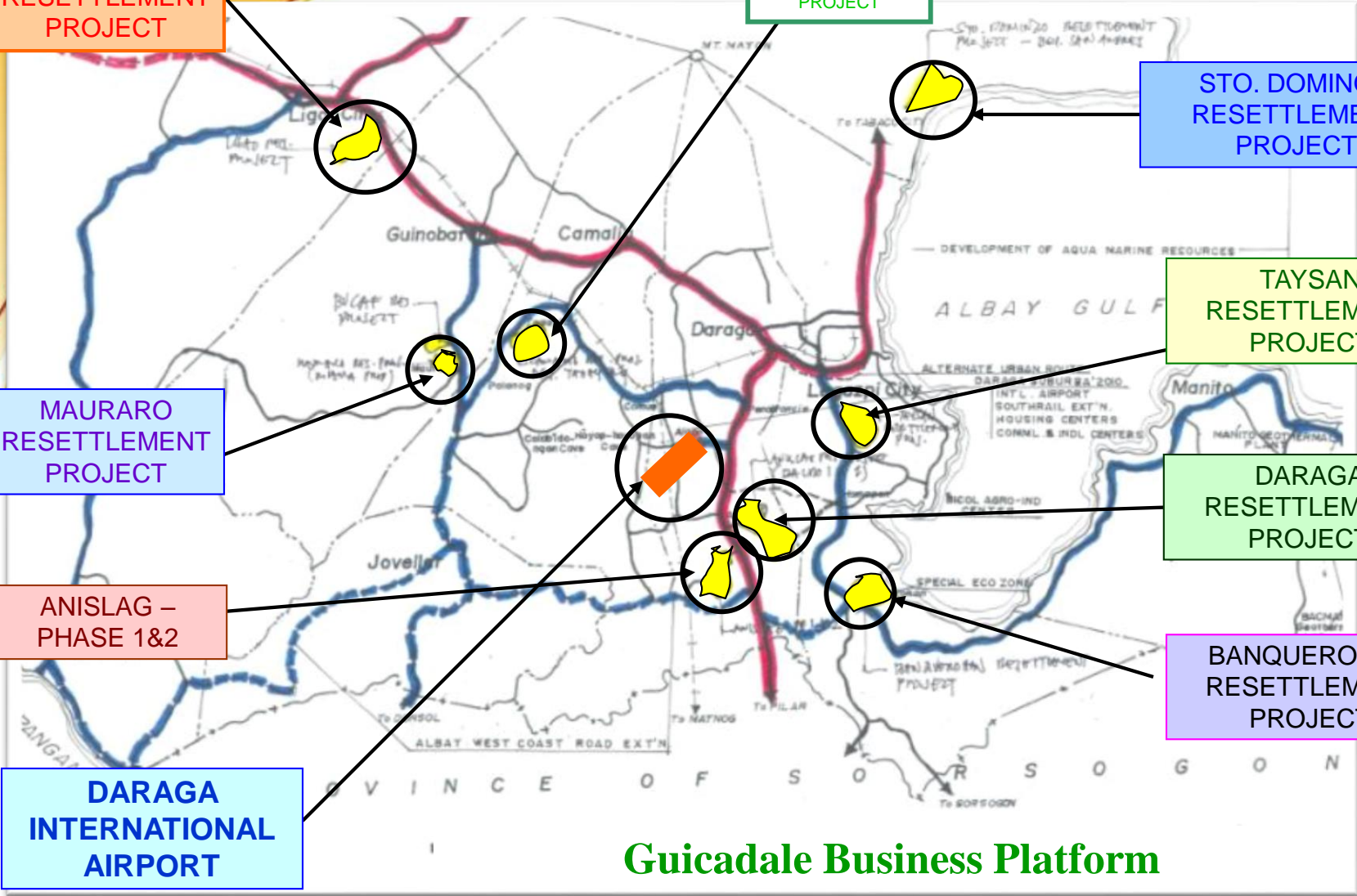
DARAGA  
RESETTLEMENT  
PROJECT

ANISLAG –  
PHASE 1&2

BANQUEROHAN  
RESETTLEMENT  
PROJECT

DARAGA  
INTERNATIONAL  
AIRPORT

# Guicadale Business Platform



# Resources for Risk Reduction: Relocation

- **Relocation**
  - Program being undertaken under Albay MDG Office
  - 10,076 households in high risks areas already provided with developed lots in safer locations (around the new int'l airport)
  - Lots are already sufficient
  - Shelter gap of 5,454
- Funded by NHA, DSWD, INGOs/NGOs
  - Provincial Government provided the sites

# Model Relocation Sites (WB 2013, Oxford University)

- Taysan (Legazpi City)
- Banquerohan (Legazpi City)
- Sta. Monica (Legazpi City)
- Anislag Phases 1, 2,3 (Daraga)
- Baldo 1 (Daraga)
- Baldo 2 (Daraga)
- Amore (Daraga)
- Bascaran (Daraga)
- Penafrancia (Daraga)
- Pandan (Daraga)
- Cullat (Daraga)
- Balinad (Daraga)
- Banadero (Daraga)
- Tagaytay (Camalig)
- Baligang (Camalig)
- St. Francis of Assisi (Camalig)
- Mauraro (Guinobatan)
- Quitago (Guinobatan)
- Minto (Guinobatan)
- Tuburan (Ligao)
- Lanigay (Polangui)
- San Andres phases 1 & 2 (Sto. Domingo)



# Training of Emergency Paramedics

# Training of Rescue Teams

# Community Drills





# STARTING THEM EARLY



# CHILDREN DRR THROUGH GAMES



# CHILDREN DRR THROUGH MAGIC



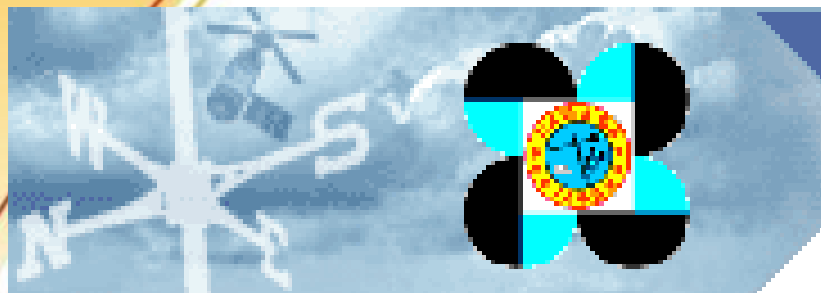
# Resources for Preparedness

## Warning Communications

- **Close coordination with warning agencies**
  - PAGASA is sole authority
  - Establishment of Regional Weather Bureau in Legazpi
  - Doppler radar in Virac
- **Community-based warning system**
  - Rainfall monitoring at village level
  - Continuous training
  - Source of Funds: Provincial Government budget
- **Warning communications protocol**
  - Facebook
  - Infoboard
    - Assigned 15,750 SIM cards to village officials
    - Source of Funds: CSR of Smart
  - **PINDOT**
    - GPS-based
    - Group mobile wifi
    - Source of Funds: CSR of Smart

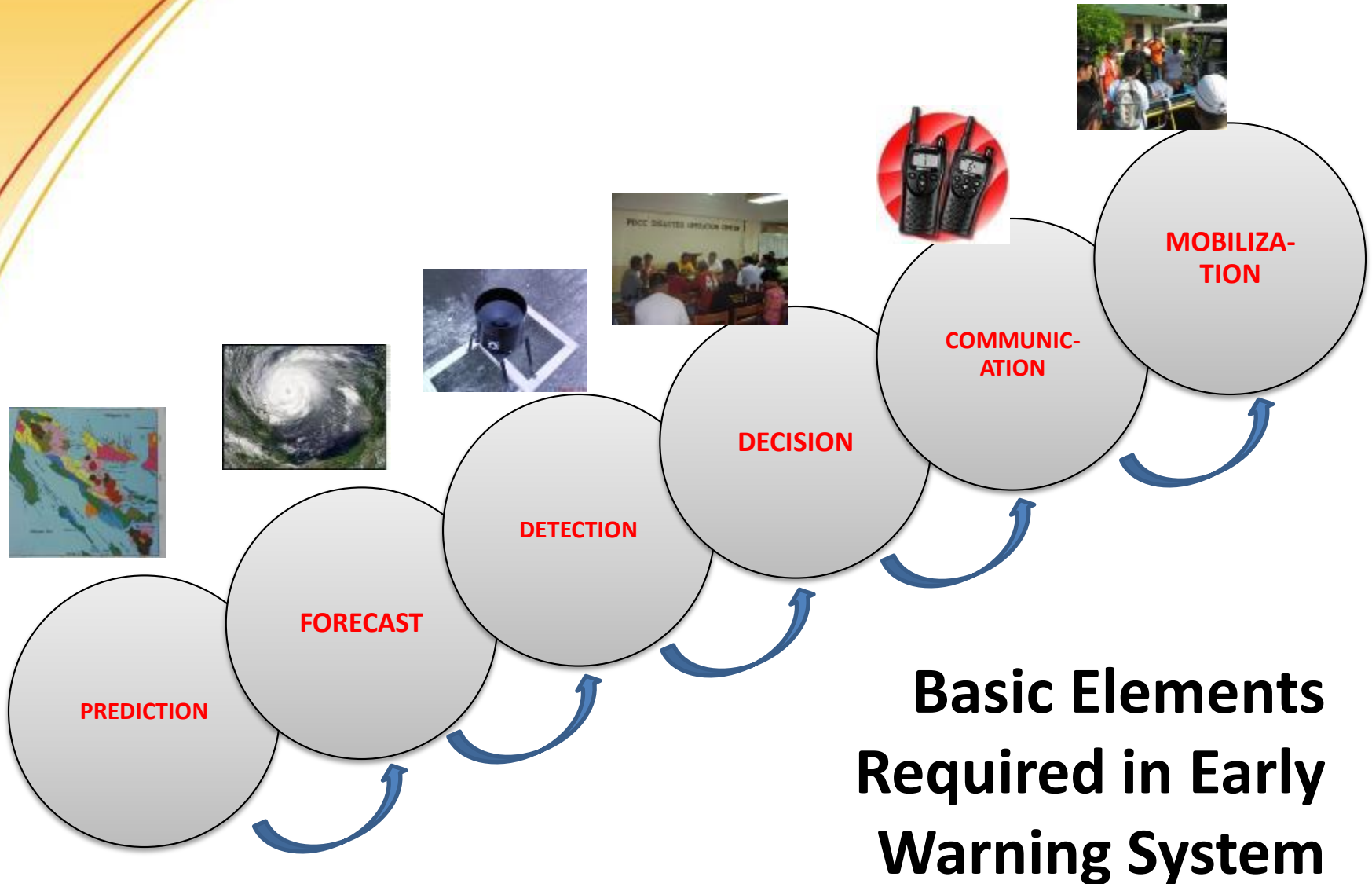
# The Source of Official Warning Bulletins

**PAGASA**



**N/DRRMCs**

# Early Warning System



# The Normal Procedures on Early Warning System

## PHIVOLCS/PAGASA



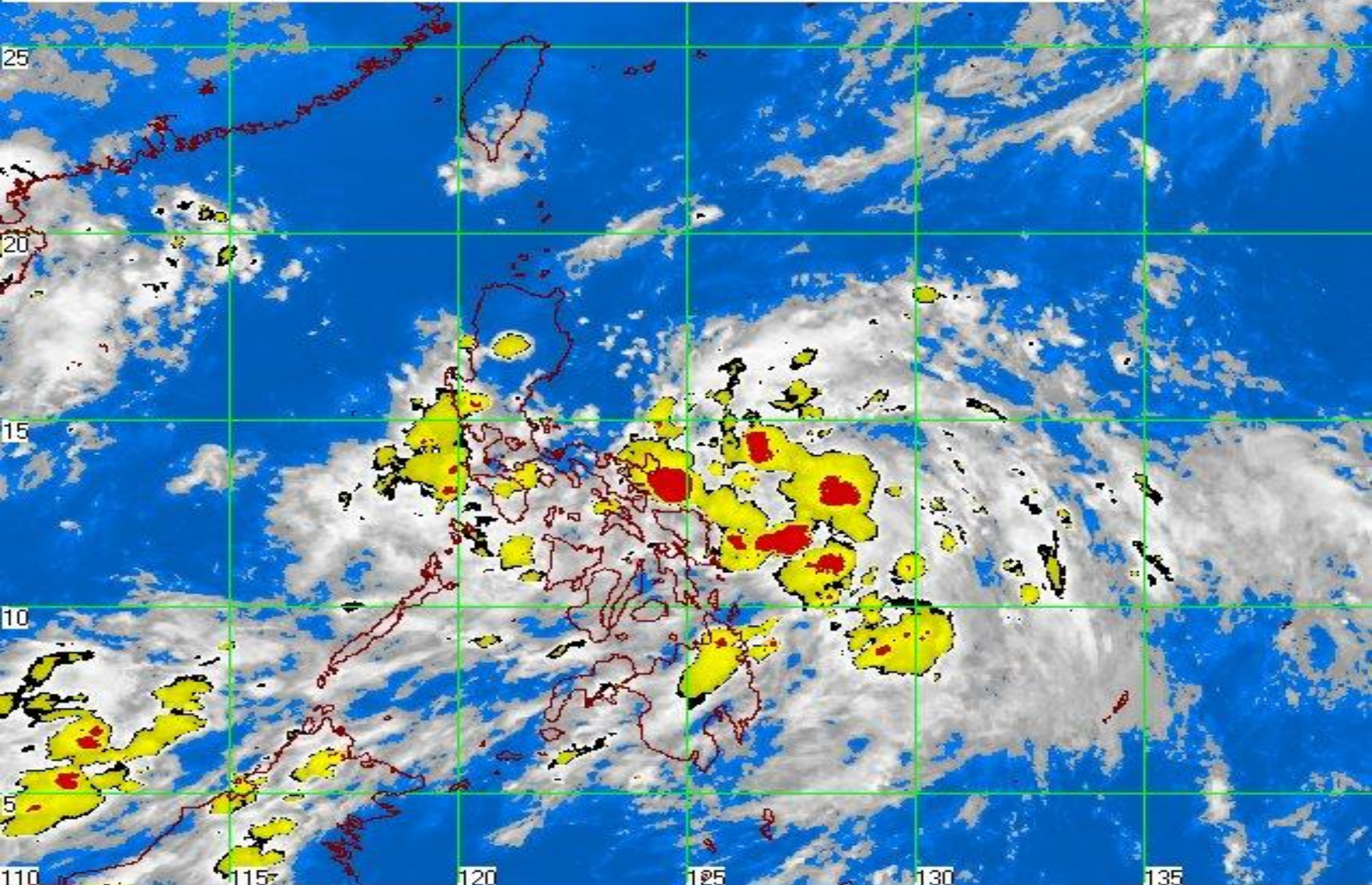
## By the Local Authorities







# DOST PAGASA MTSAT IR1 11:32 UTC 31/05/2012



-1-90 -70 -50 -30 -10 10 30 50

-10-80 -60 -40 -20 0 20 40

20:10 UTC  
31 May 2012 PHT

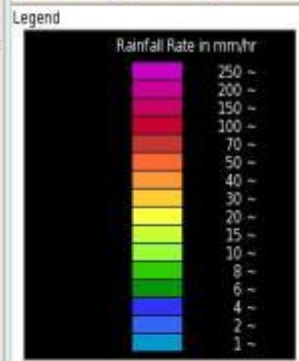
Height : 4 km  
Range : 200 km

Data Select  
VIRAC  
CAPPI R  
4km

Replay  
Manual

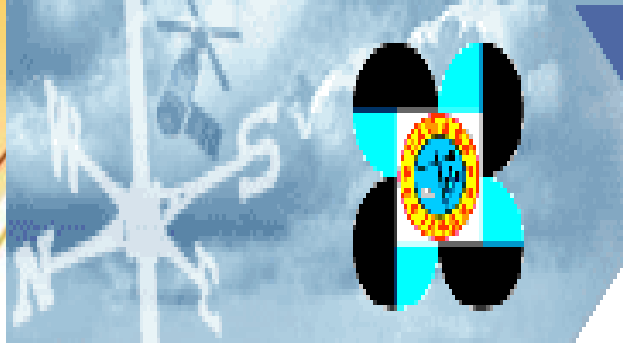
Data Assistance  
Cursor X-Section Track

Overlay  
Map Coast  
Range / AZ lat. / lon. Marker  
Wind Shear Line Microburst



VIRAC

# Community-Based Early Warning



**Warning  
Agencies**



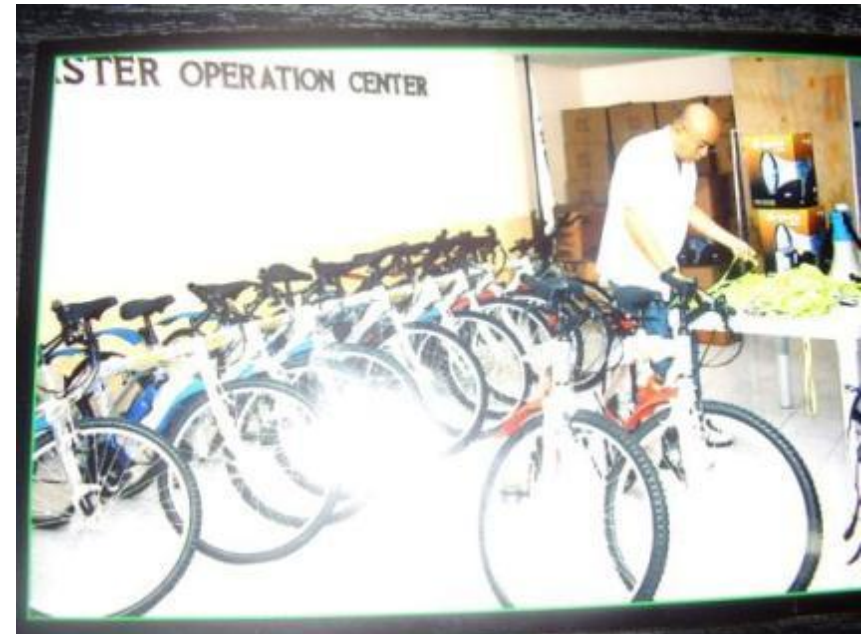
**APSEMO**



**Communities  
LGUS**



# Community-based Warning Communications



# COMMUNICATIONS PREFERENCES

- FACEBOOK
- INFOBOARD ... w/ SPA ordinance
- Email blast: Responders / Partners / Traditional Media
- PINDOT (adapted from Tudlo):  
Infoboard with GPS

- About**
- Works at People of Albay**  
Past: ING Baring Securities (Phil.) Inc and Provincial Government of Albay
  - Studied at Asian Institute of Management**  
Past: Ateneo de Manila University and Zamora Memorial Institute
  - Lives in Daraga, Albay**
  - From Polangui, Albay, Philippines**
  - Followed by 54,159 people**



Post Photo

Write something...

SirChief TourGuide Joey Salceda  
9 minutes ago

 **WOW Facts Of Life**  
@WOWFactsOfLife

Vodka is made from potatoes.  
Potatoes are vegetables.  
Vegetables are good for you.  
You're welcome.

9/21/13, 5:40 AM

Sponsored Create Ad

**FLASH SALE: 'Til Sep 22!**  
An extra 8% off @ Agoda, when you book your hotel w/ your BPI Card & promo code "BPIEXTRA8"  
Ryann Soon and Julius Borja Romero like this.

**Hate your Boss?**  
Partners Wanted  
If you want to fire your boss, HIT us up and see if you qualify to run our empire. As Boss  
22,817 people like this.

**IACAT-News DO] June-sept**  
IACAT-News DO]  
The online news & information portal of the PH's Inter-Agency Council Against Trafficking



 PressReader is the killer newspaper app for your Pad! Receive 7 trial issues for free.

- Recent**
- 2013
  - 2012
  - 2011
  - 2010
  - 2009
  - 2008
  - 2007
  - 2000
  - 1990
  - 1987
  - 1981
  - 1977
  - Born
- Chat (Off)**

OFFICE FOR WINNING 2013 CSC PAG-ASA AWARD  
Provincial Government of Albay  
Legazpi City, Albay

Team Leader: **Cedric D. Daep**

Members:  
Ms. Crisline S. Ador  
Abundio V. Nunez, Jr.  
Ray M. Alfonso  
John Eugene Vincent N. Escobar  
Francisco G. Banua  
Johanne D. Sierio  
Romero R. Belgica  
Roslyn M. Dineros  
Jose M. Villanueva

**JOEY SARTO BALCEDA**  
Governor - Province of Albay

**APSEMO**

Albay Pdrmmc

**Albay RISING**

**Albay PDRRMC**

Ocd-rrmmc Bicol

**OCD 5**

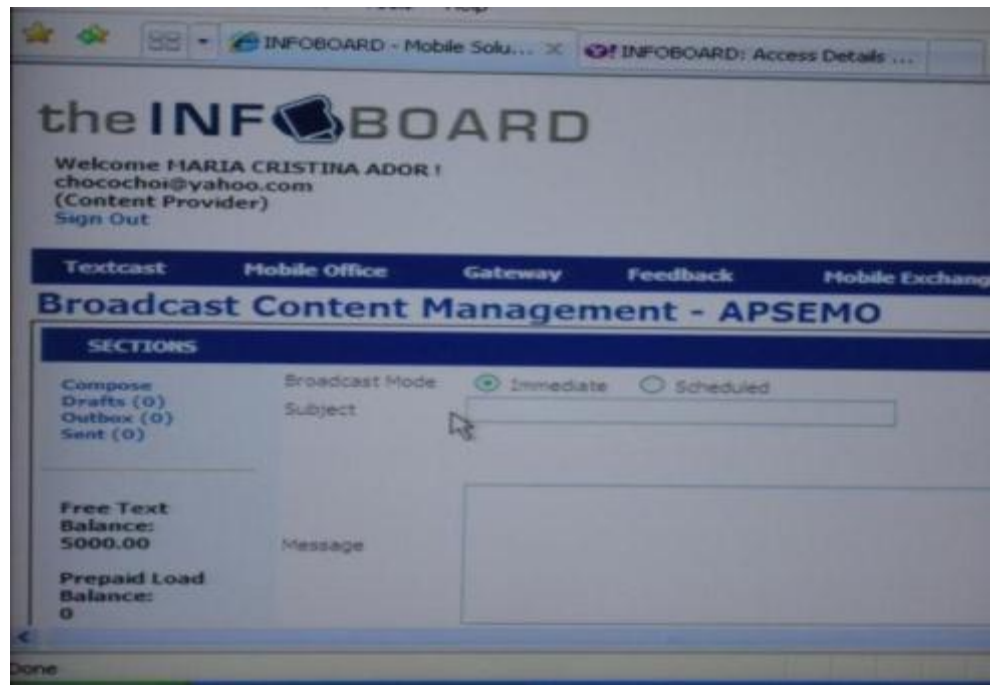
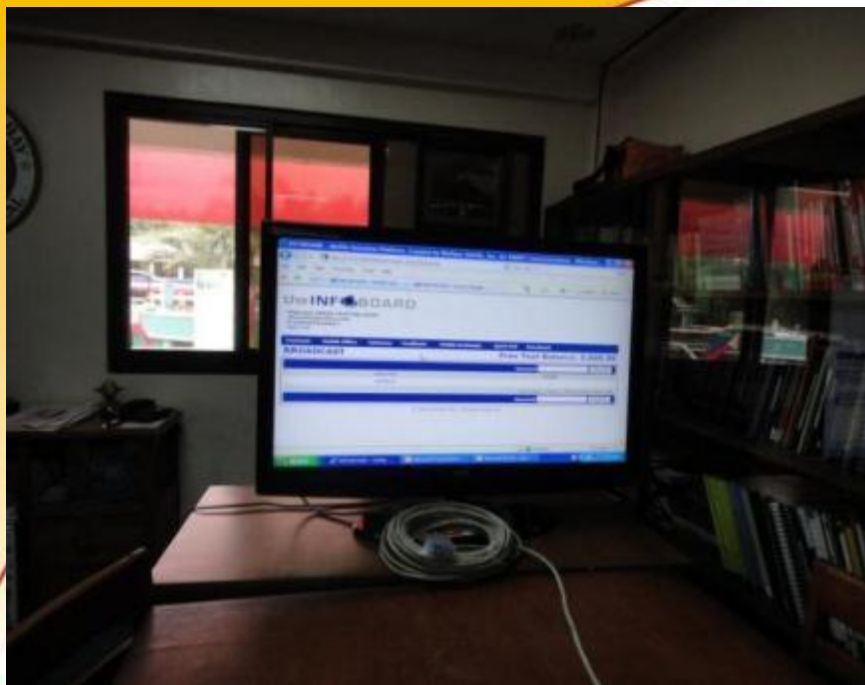
Bicolano Man

**Bicolano Man**

# Resources for Warning Communications - INFOBOARD

- ▶ PDRRMC Executive Office/ APSEMO Dept Head– serve as the administrator of the infoboard.
- ▶ APSEMO Selected Staff as Sub-Administrators.
  - Collect and register the cp numbers of all the target recipients in the Province of Albay.
  - Send emergency communications to selected segment.
- ▶ Sectors– recipients of the information sent by the administrator.
- ▶ Source of Funds: Private Sector participation!
  - ▶ **Smart Phil** – provides free initial sending cost of P30,000
  - ▶ PDRRMC may request additional allocation as maybe needed.
  - Feedback will be received by APSEMO by sending “APSEMO space FEEDBACK space (Message) send to 70025229





# Resources for Warning Communications - PINDOT



So how does it works?



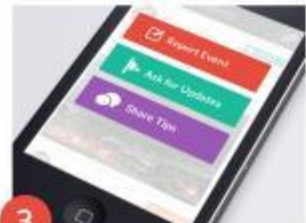
1

Simple, On the **home screen** are recent events where you can input remarks and see action taken. You can also **share it to your family and friends** so they can be warn.



2

Now, you can also contribute an event, add an event description and put some hashtags. It automatically gets your location but you can change it by clicking. Then add a Photo either through camera or photo library. Now take a **snapshot**. Then press **send**.



3

Once submitted, it will then alert **government agencies** and notify nearby people includes your family and friends. You can still navigate while it's sending....



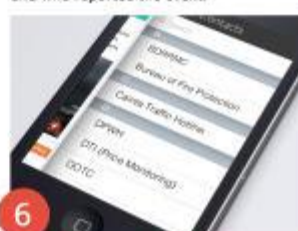
4

Now, let's go to the **map**. You can see multiple events on the map.. You can zoom in and zoom out...The details are complete with description, date and time and who reported the event.



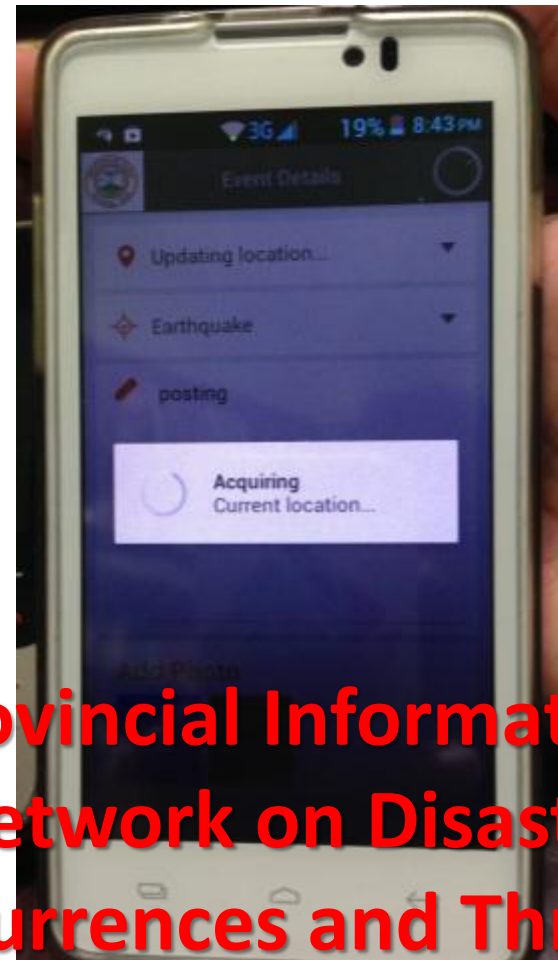
5

But that's not yet... we've created **valuable tools** for you..to help in times of emergencies and in decision making or help you better prepare on possible hazards that will come to you and your family.

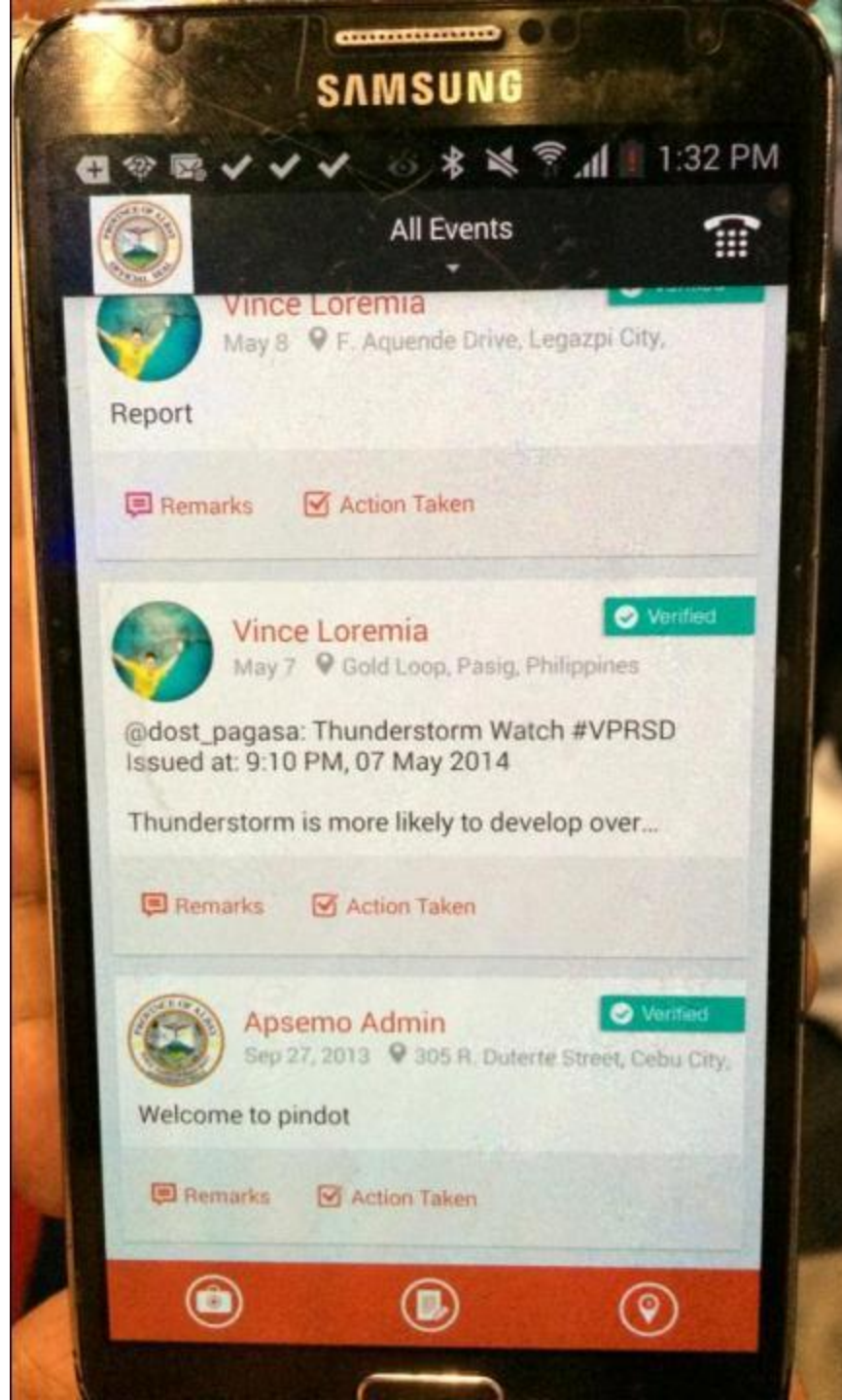
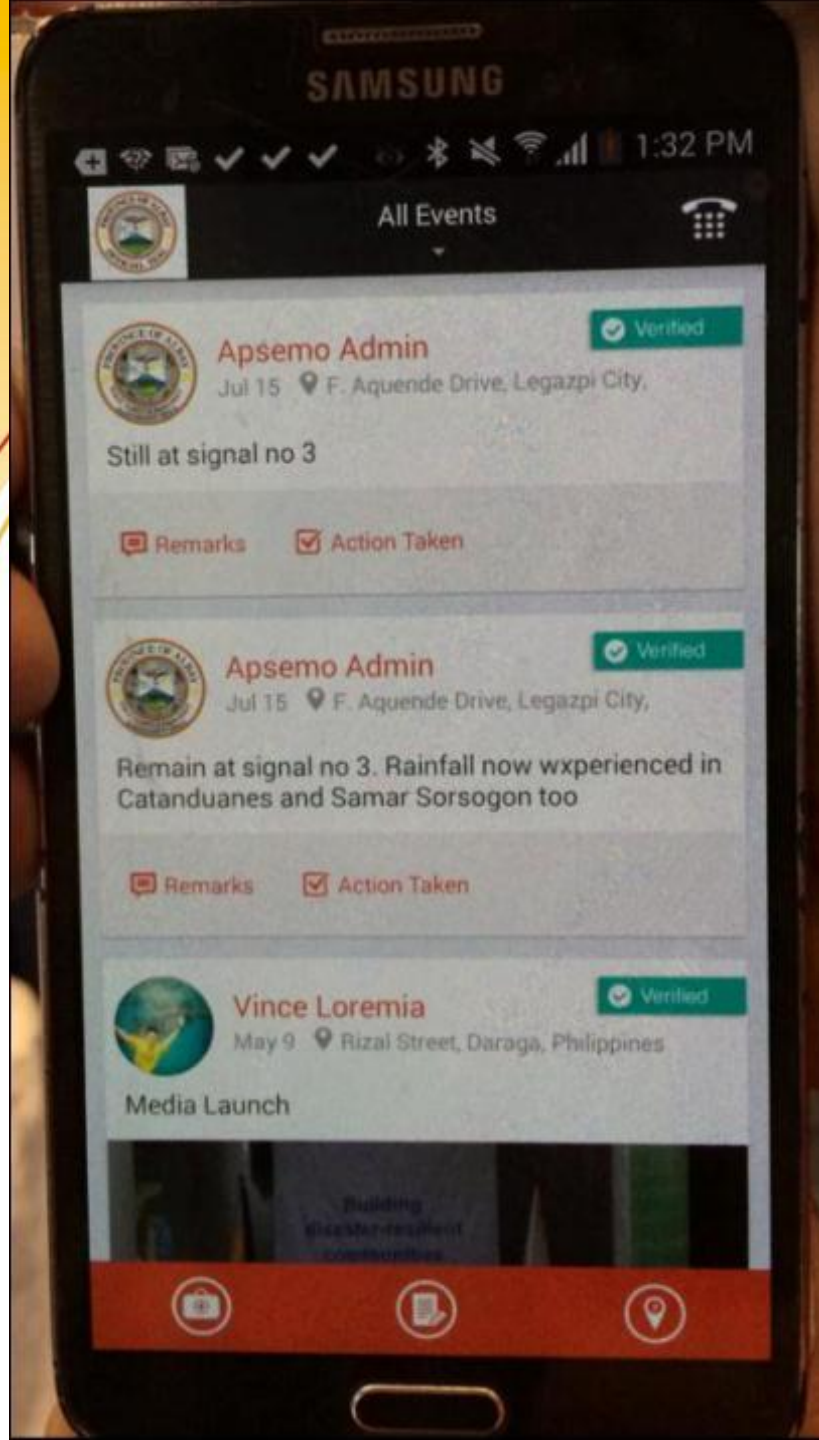


6

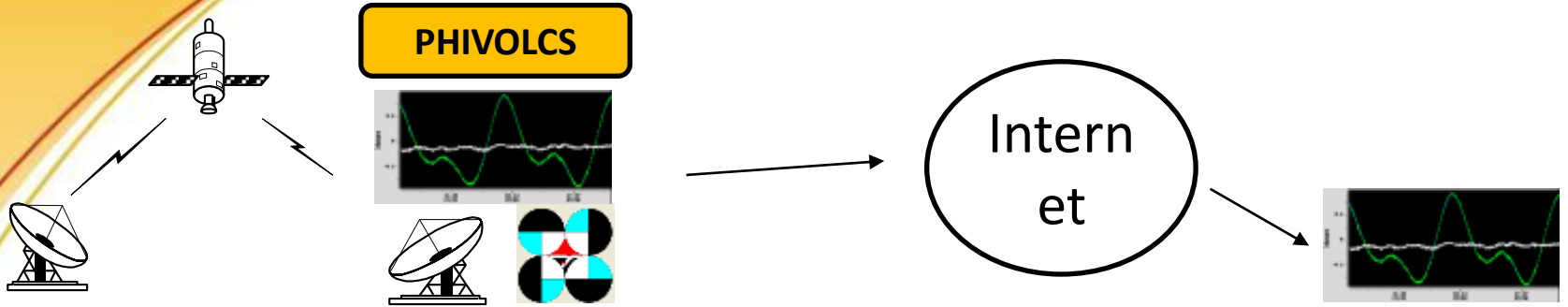
**Emergency Contact Numbers** are in place...where you can call or send text message...You are always up to date with Feeds from the government...



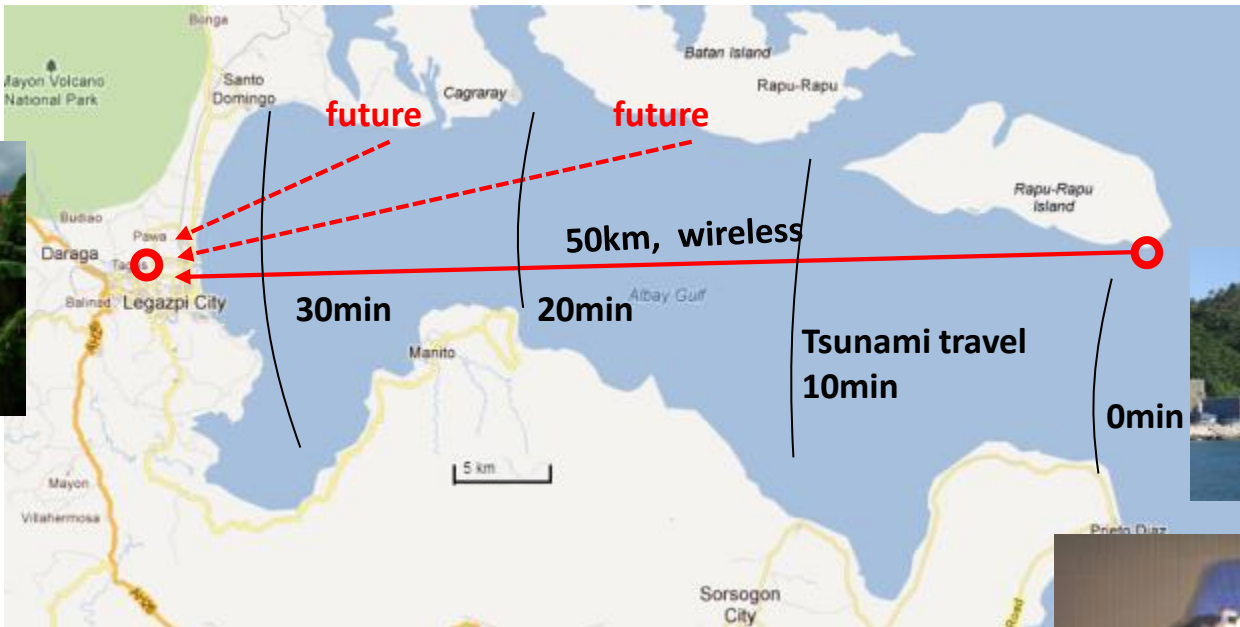
**Provincial Information Network on Disaster Occurrences and Threats (PINDOT)**



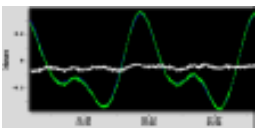
# Albay Gulf Tsunami Monitoring System



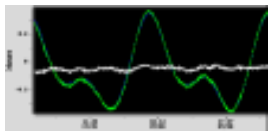
**PHIVOLCS  
Lignon Hill**



**RapuRapu  
Mine Port**



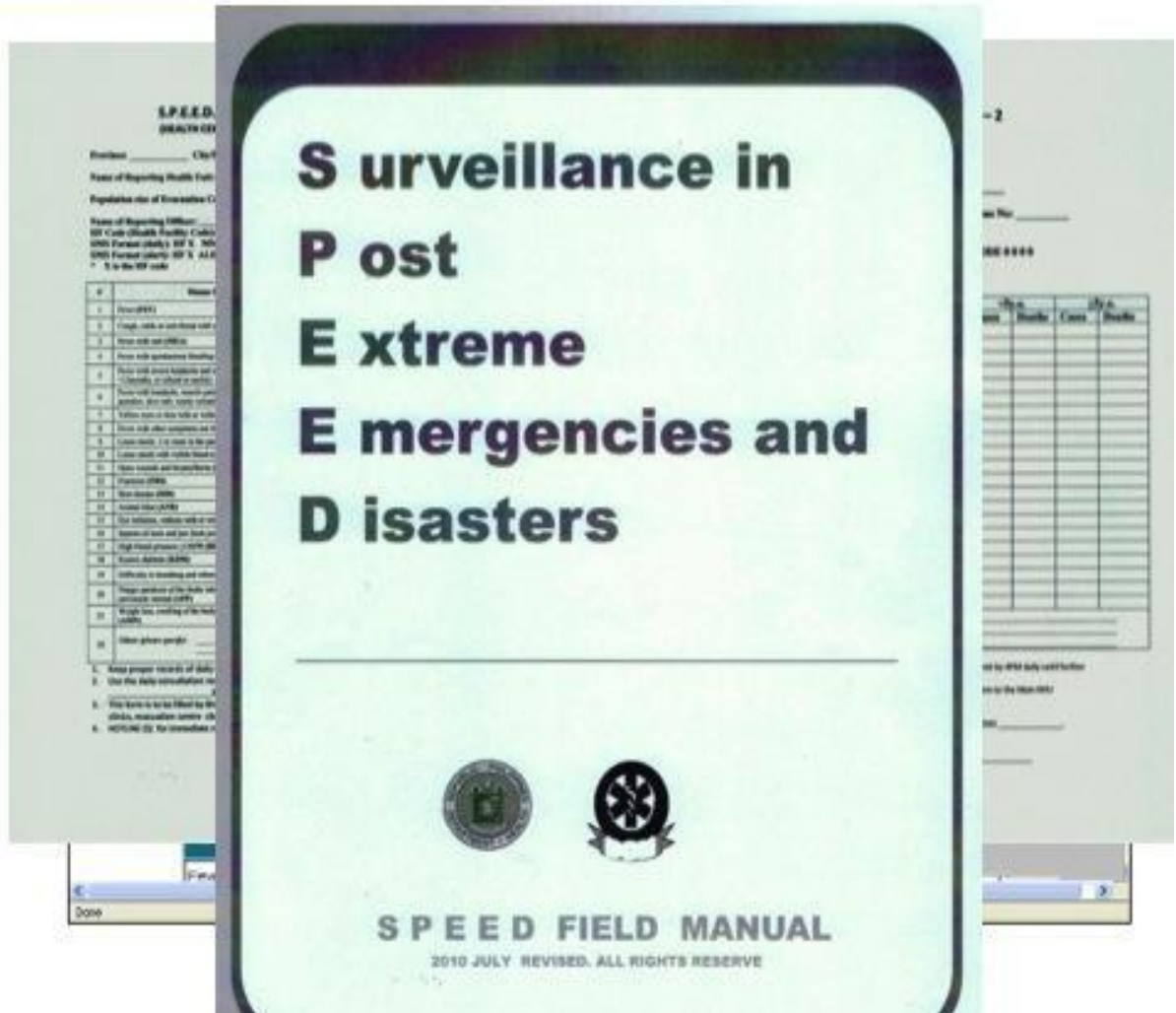
**APSEMO**



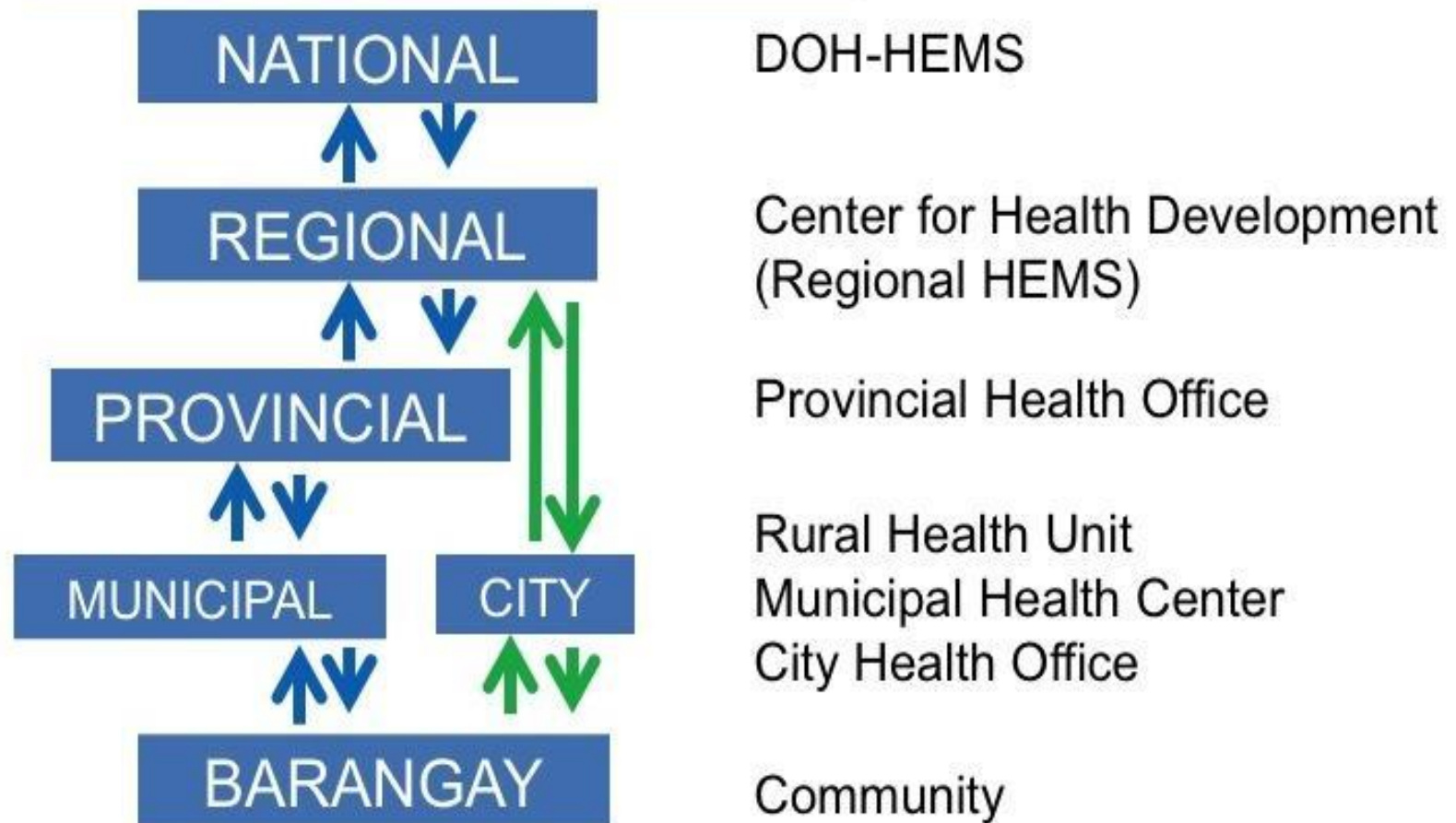
**Tide Gauge**

# HEALTH INFORMATION FOR EMERGENCIES: SPEED

- Software
- Hardware
- Data collection tools
- Field Manuals
- Training Materials



# HEALTH INFORMATION FOR EMERGENCIES: SPEED



# Resources for Preemptive Evacuation

- **Safe Evacuation Centers**

- Construction of Emergency Evacuation Centers.
  - In times of no disaster, they will operate as classrooms or in the case of Daraga as municipal activity centers
  - Cost: P250m
  - Source of Funding: **AECID**, Deped, LGUs
- Emergency Educational Preparedness Program for Mayon Volcano Disaster Areas
  - In times of no disaster, they will operate as schools
  - Cost: P780m
  - Source of Funding: **JICA**

- **Safe Schools**

- Validation survey of all school buildings for structural safety (design), safety from hazards (location) and safety for health
- Provision of water-sanitation facilities to 700 school buildings
- Source of Funds: DOH HEMS-Unicef

# Physical Capacity-Building: Mobility Assets could evacuate 160,000 persons/day

	LGU Provincial	Nat' l Agencies	Private
Ambulance	59	4	7
Rubber boats	18	8	
Passenger Trucks	3	54	300+
Helicopter		4	1
Firetrucks		26	8
Water Purifying Machine	1 (32t li/hr) from AECID		
Water Tank Lorry	1 worth P3m		
Com Vehicle	1 worth P14m		



# Capacity Buildup: Mobility and Communications



# Permanent Evacuation Centers

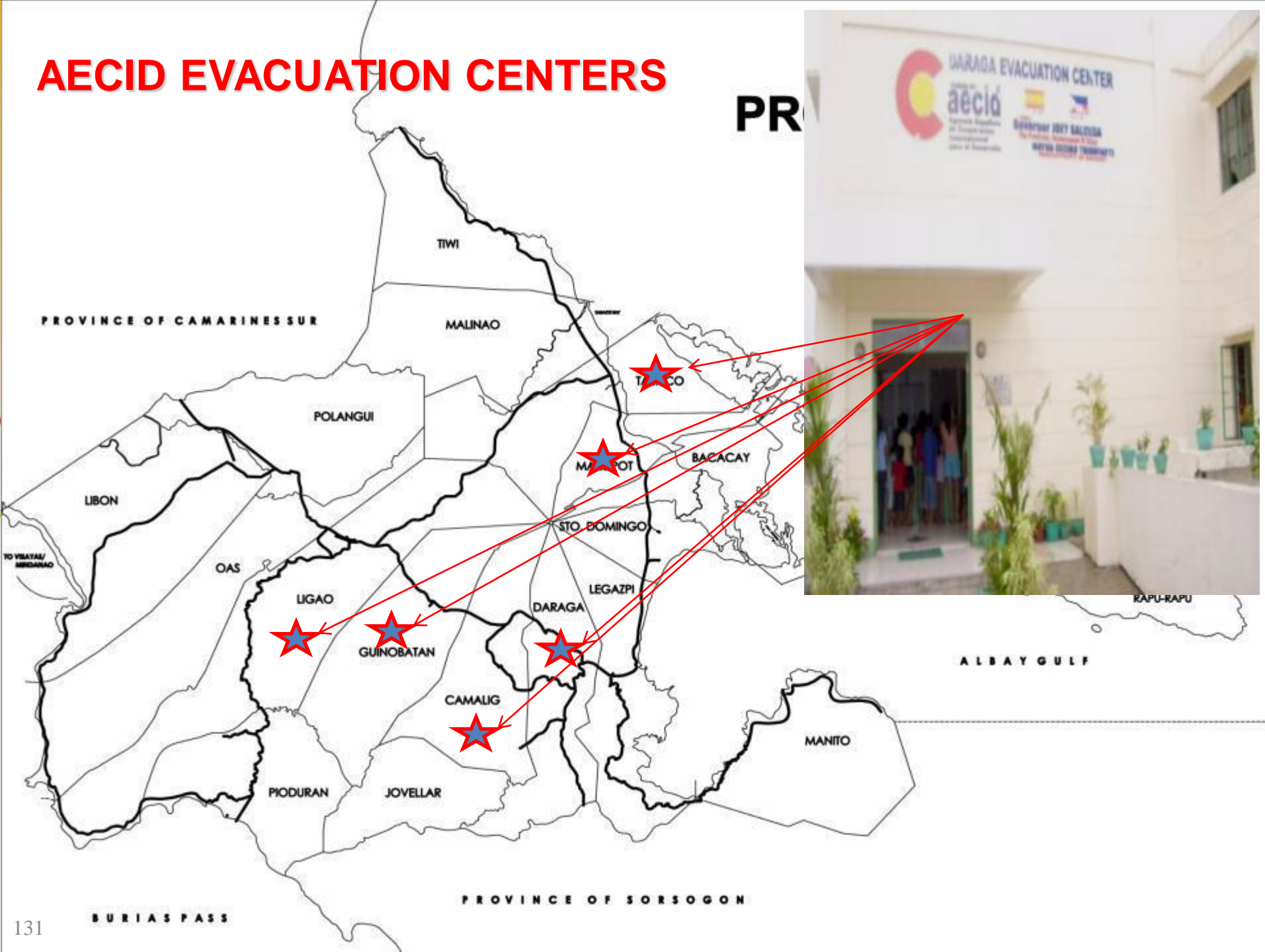
6 Emergency Evacuation Center from AECID:

- Daraga – Completed as of December 2008
- Guinobatan – 95% Completed
- Camalig – 95% Completed
- Malilipot- For Construction
- Tabaco City- For Construction
- Ligao City- For Construction



# AECID EVACUATION CENTERS

PR



# Permanent Evacuation Centers





**THANK YOU**

# Know the vulnerable

## Jan 2014 Disaster Risk Assessment

NAME OF CITY/ MUNICIPALITY	FLOODING			LANDSLIDE			MUDFLOW / LAHAR		
	No. of Bgys	Families Affected	Population	No. of Bgys	Families Affected	Population	No. of Bgys	Families Affected	Population
	Affected			Affected			Affected		
1. TIWI	17	1987	10281	8	934	4794			
2. MALINAO	26	2991	14589	12	1874	5547			
3. TABACO CITY	40	1062	5535	2	122	645	11	5134	28008
4. MALILIPOT	17	608	3173	6	209	942	3	1476	7298
5. BACACAY	53	1193	6207	7	451	2396	1	2505	6980
6. <b>STO. DOMINGO</b>	15	<b>644</b>	<b>2936</b>	5	446	<b>2087</b>	5	<b>2965</b>	<b>12158</b>
7. LEGAZPI CITY	66	16372	84182	10	305	1611	8	5348	23814
8. RAPU-RAPU	33	1392	7993	5	522	2643			
9. MANITO	12	958	5802	13	1063	6376			
10. DARAGA	26	2393	11584	6	669	3450	17	10431	47888
11. CAMALIG	23	4604	24105	10	822	4228	7	3220	16075
12. GUINOBATAN	18	2923	15214	4	14	84	8	4545	18948
13. JOVELLAR	13	302	1603	3	54	282			
14. LIGAO CITY	29	897	4608	21	1928	10052	7	2080	10820
15. <b>PIODURAN</b>	<b>17</b>	<b>3291</b>	<b>16375</b>	9	134	699			
16. <b>OAS</b>	<b>28</b>	<b>2597</b>	<b>17263</b>	11	<b>399</b>	<b>1876</b>			
17. <b>POLANGUI</b>	<b>23</b>	<b>5742</b>	<b>29124</b>	<b>25</b>	<b>3781</b>	<b>10844</b>			
18. LIBON	28	7465	38822	8	819	3345			
<b>TOTAL</b>	<b>484</b>	<b>57,421</b>	<b>299,396</b>	<b>165</b>	<b>14,546</b>	<b>61,901</b>	<b>67</b>	<b>37,704</b>	<b>171,989</b>

# Know the vulnerable

## Jan 2014 Disaster Risk Assessment

NAME OF CITY/ MUNICIPALITY	STORM SURGE & TSUNAMI			WIND			MAYON ERUPTION		
	No. of Bgys	Families Affected	Population	No. of Bgys	Families Affected	Population	No. of Bgys	Families Affected	Population
	Affected			Affected			Affected		
1. TIWI	12	1644	8550	25	1856	9649			
2. MALINAO	4	298	1552	29	1678	8721			
3. TABACO CITY	17	2559	13196	47	3477	18085	8	3230	15555
4. MALILIPOT	3	595	3150	18	1406	7313	3	1527	7168
5. BACACAY	34	2345	12190	56	1339	6961			
6. <b>STO. DOMINGO</b>	8	<b>402</b>	<b>1946</b>	23	<b>2649</b>	<b>12186</b>	9	<b>5541</b>	<b>25941</b>
7. LEGAZPI CITY	20	5816	28019	70	2379	12370	12	7658	32757
8. RAPU-RAPU	28	4215	21885	34	755	3926			
9. MANITO	7	346	1988	15	985	5121			
10. DARAGA				54	686	3563	6	3222	12841
11. CAMALIG				50	2646	13759	6	1842	8128
12. GUINOBATAN				44	1849	9610	5	2222	10460
13. JOVELLAR				23	855	4447			
14. LIGAO CITY	3	239	1250	55	1543	8023	7	1209	6367
15. <b>PIODURAN</b>	<b>10</b>	<b>5240</b>	<b>25500</b>	33	1479	7687			
16. <b>OAS</b>	5	<b>647</b>	<b>4652</b>	53	<b>4985</b>	<b>25858</b>			
17. <b>POLANGUI</b>				44	<b>10844</b>	<b>54224</b>			
18. LIBON	6	2808	15444	47	4924	25605			
<b>TOTAL</b>	<b>157</b>	<b>27,154</b>	<b>139,322</b>	<b>720</b>	<b>46,335</b>	<b>237,108</b>	<b>56</b>	<b>26,451</b>	<b>119,217</b>

# Know the vulnerable

## Jan 2014 Disaster Risk Assessment

NAME OF CITY/ MUNICIPALITY	FLOODING					LANDSLIDE					MUDFLOW / LAHAR				
	No. of Bgys Affected	Families Affected	30% of the Affected families	Population	30% of the population	No. of Bgys Affected	Families Affected	100% of the Affected families	Population	100% of the population	No. of Bgys Affected	Families Affected	40% of the Affected families	Population	40% of the population
1. TIWI	17	1,987	596	10,281	3,084	8	934	934	4,794	4,794			-		-
2. MALINAO	26	2,991	897	14,589	4,377	12	1,874	1,874	5,547	5,547			-		-
3. TABACO CITY	40	1,062	319	5,535	1,661	2	122	122	645	645	11	5,134	2,054	28,008	11,203
4. MALILIPOT	17	608	182	3,173	952	6	209	209	942	942	3	1,476	590	7,298	2,919
5. BACACAY	53	1,193	358	6,207	1,862	7	451	451	2,396	2,396	1	2,505	1,002	6,980	2,792
6. STO. DOMINGO	14	464	139	2,425	728	5	446	446	1,563	1,563	5	2,990	1,196	12,834	5,134
7. LEGAZPI CITY	66	16,372	4,912	84,182	25,255	10	305	305	1,611	1,611	8	5,348	2,139	23,814	9,526
8. RAPU-RAPU	33	1,392	418	7,993	2,398	5	522	522	2,643	2,643			-		-
9. MANITO	12	958	287	5,802	1,741	13	1,063	1,063	6,376	6,376			-		-
10. DARAGA	26	2,393	718	11,584	3,475	6	669	669	3,450	3,450	17	10,431	4,172	47,888	19,155
11. CAMALIG	23	4,604	1,381	24,105	7,232	10	822	822	4,228	4,228	7	3,220	1,288	16,075	6,430
12. GUINOBATAN	18	2,923	877	15,214	4,564	4	14	14	84	84	8	4,545	1,818	18,948	7,579
13. JOVELLAR	13	302	91	1,603	481	3	54	54	282	282			-		-
14. LIGAO CITY	29	897	269	4,608	1,382	21	1,928	1,928	10,052	10,052	7	2,080	832	10,820	4,328
15. PIODURAN	10	1,691	507	8,799	2,640	9	134	134	699	699			-		-
16. OAS	18	1,946	584	13,663	4,099	11	1,841	1,841	9,530	9,530			-		-
17. POLANGUI	25	7,136	2,141	35,999	10,800	12	1,115	1,115	5,777	5,777			-		-
18. LIBON	28	7,465	2,240	38,822	11,647	8	819	819	3,345	3,345			-		-
<b>TOTAL</b>	<b>468</b>	<b>56,384</b>	<b>16,915</b>	<b>294,584</b>	<b>88,375</b>	<b>152</b>	<b>13,322</b>	<b>13,322</b>	<b>63,964</b>	<b>63,964</b>	<b>67</b>	<b>37,729</b>	<b>15,092</b>	<b>172,665</b>	<b>69,066</b>

Sources: MGB V; CDCCs/MDCCs/BDCCs; NSO 2007

**NOTE:** Some of the population threatened by Mayon Volcano eruption are also threatened by other hazards like flood and lahar due to weather hazards. Some Coastal Barangays which are threatened by Storm Surge/Tsunami are also threatened by flooding. Hence, overlapping on total number of population (by barangay) affected by 2 or more types of hazards is possible.





**THANK YOU**