Sustainable Asia Leadership Program Overview

10-14 September 2012 Asian Development Bank





S4: Leadership

Governor Joey Sarte Salceda Province of Albay, Philippines









Adaptation 101

- 1. Rehabilitation is best opportunity for risk reduction
- 2. Agricultural adaptation: camote for rice
- 3. Economic adaptation: human capital formation for physical capital formation
- 4. Zero casualty goal subsumes and brings forth all other developmental imperatives





TYPHOON DURIAN: FINANCIAL IMPLICATIONS ON ALBAY

	Damage Sustained	Formal / Recorded Sources of Recovery	Amount	Item	Rate of Recovery
1. Public Infrastructure	4,005	27%	3,872		97%
Natl Roads/Bridges	2,700	DPWH	1,400	Spcl Item in Natl Budget	
			980	Realignment/Augmentation	1
			250	Supplemental Natl Budget	
Provincial Facilities	98	GSIS	28	Insurance Claim	
Natl Health Facilities	148	DOH	78	Spcl Item in Natl Budget	
Local Health Facilities	219	Transfer	160	Spcl Item in Natl Budget	
		AECID	28	Grant	
P41m from clai	ims				
r 41111 11 O111 Clai	630	Deped	630	Spcl Item in Natl Budget	
		AECID	170	Grant	
College	210	CHED	148	Spcl Item in Natl Budget	
2. Agriculture	903	6%	340		38%
Crops	570	DA	160	Spcl Item in Natl Budget	
		DAR	180	Spcl Item in Natl Budget	
		PCIC	13	Insurance Claim	
Irrigation	333	NIA	180	Spcl Item in Natl Budget	
3. Private Housing	10,045	67%	2,225		22%
Totally Damaged: 112,074	7,845	NHA	750	Spcl Item in Natl Budget	
Partlly Damaged: 99,986	2,200	DSWD	750	Spcl Item in Natl Budget	
		USAID	125	Grant	
		NGOs	300	Grants	
		HDMF	300	P100T home improvement loans	
Total	14,952)——	6,437	Becovery rate from formal sources	43%
200/ -4 411	CDD		5,078	Recovery from private sources	34%
36% of Albay	GDP		11,515	Total Recovery	77%
			3,437	Unrecovered	23%

Less than 0.7 per cent of the total relief aid goes to disaster risk reduction

- Only 0.1% of Aid went to Prevention in 2001 and 0.7% in 2008
- 10% of Humanitarian Relief Funds Agreed in 2009





Indicators for Palay	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Production (in Metric Tons)	107,274	142,425	124,062	104,001	131,895	131,882	155,700	179,467	156,892	148,036
Rank ¹	29	29	33	37		31	27	25	30	34
Per Capita	10.1	13.1	11.4	9.2	11.5	11.3	13.1	14.9	12.8	12.4
Rank ¹	42	43	50	55		53	49	41	51	
Area Harvested (in Hectares)	47,304	53,040	48,300	41,537	45,974	44,441	47,402	51,528	48,174	42,027
Average Yield Per Hectare	2.27	2.69	2.57	2.50	2.87	2.97	3.28	3.48	3.26	3.52
Utilization										
Seeds	3,548	3,978	3,623	3,115	3,448	3,333	3,555	3,865	3,613	3,152
Feeds and Wastes	6,973	9,258	8,064	6,760	8,573	8,572	10,121	11,665	10,198	9,622
Processed	96,753	129,189	112,375	94,126	119,874	119,977	142,024	163,937	143,081	135,262

148k mt of rice produced or only half of demand

Major	20	03	20	04	20	05	20	06	20	07
Temporary	Production	Area								
Crops	(in Metric	Harvested								
Crops	Tons)	(in Hectares)								
			_		_				_	
Ampalaya	508.0		735.8		776.9		758.0	75	815.3	
Cabbage	239.4	25	224.7	25	233.2	25	215.7	22	217.4	21
Camote	38,148.0	5,954	37,811.1	5,954	39,612.2	5,954	39,022.6	5,954	40,053.0	5,960
Cassava	14,348.0	1,867	14,273.3	1,877	15,115.3	1,887	14,863.1	1,887	15, 156.1	1,897
Chayote	382.0	55		55	645.0	55	604.0	53	620.0	55
Eggplant	2,501.0	376	2,497.8	376	2,639.9	376	2,638.0	358	2,766.5	365
Gabi	8,644.0	934	8,445.0	934	8,685.7	934	8,665.0	920	8,777.4	925
Ginger	88.2	16	86.0	16	88.7	16	86.1	15	91.6	
Gourd	178.0	16	656.1	30	678.3	30	664.0	29	675.3	32
Habitchuelas	282.6	74	287.7	72	304.1	72	307.1	70	313.3	75
Mongo	81.0	107	77.5	104	71.5	101	63.4	85	74.1	90
Okra	38.0	9	37.5	9	39.4	9	39.1	9	40.8	12
Peanut	639.9	837	636.1	837	662.5	837	662.4	827	675.5	833
Pepper	113.0	55	109.8	55	117.6	55	112.3	54	118.8	60
Sugarcane	68,669.5	1,060	66,768.8	1,060	68,525.3	1,060	67,800.0	1,040	60,472.7	530
Tomato	1,070.0	249	987.3	245	1,034.1	245	995.0	240	1,039.8	246
Ubi	657.1	90	612.7	81	624.0	78	580.0	75	587.0	75
Watermelon	163.9	38	157.8	38	149.5	60	144.9	30	141.0	

40k mt of camote as substitute for rice

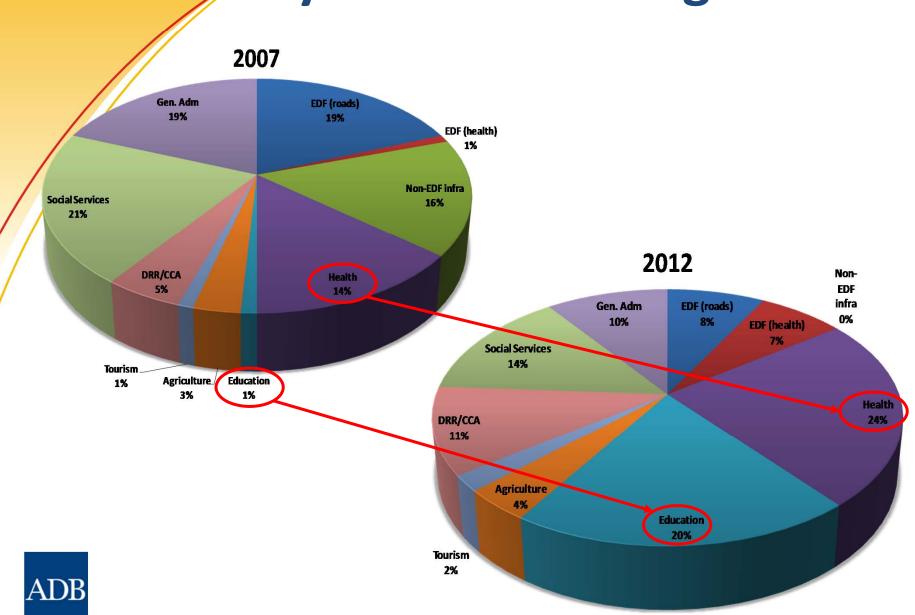
	20	003	2004		2005		20	06	20	07
Type of Major Crop	Production (in Metric Tons)	Area Harvested (in Hectares)								
Abaca	1,298	4,824	1,497	5,136	1,533	5,369	1,482	5,369	1,378	5,300
Banana	13,014	1,045	12,165	1,045	12,051	1,045	11,289	967	10,772	967
Cacao	13	90	13	90	14	90	13	90	12	85
Calamansi	158	185	159	167	159	167	153	150	146	150
Coconut	207,158	41,180	172,516	41,180	183,246	41,180	178,853	41,180	144,138	40,180
Coffee	98	341	99	341	100	341	96	335	95	328
Lanzones	2	7	-	2	_	2	-	2	0	2
Mandarin	17	75	16	75	15	75	13	70	13	70
Mango	12	60	12	60	12	60	12	60	9	56
Papaya	926	116	878	119	863	118	780	103	767	103
Pineapple	1,167	105	1,128	105	1,100	100	1,006	80	992	80
Rambutan	-	-		3	-	3	10	3	9	3

40k hectares for coconut, the 2nd biggest crop



Source: Bureau of Agricultural Statistics





Major Disaster Events in Albay Province 1995-2011: Zero Casualty in 16 years except 2006 and 2011

	Calamities	Date	Classification	Casualty	Damage Cost
	1. Typhoon Rosing	Nov. 3, 1995	Destructive	ZERO	P 1.7 B
	2. Typhoon Loleng	Nov. 2, 1008	Destructive	ZERO	7.1 B
	3. Mayon Eruption	Feb. 2000	Explosive	ZERO	284 M
	4. Mayon Eruption	June 2001	Explosive	ZERO	300 M
	5. Mayon Eruption	July 2006	Explosive	ZERO	50.5 M
	6. Typhoon Milenyo	Sept. 27 2006	Destructive	14 dead	1.3 B
/	7. Typhoon Reming	Nov. 30, 2006	Destructive	604 dead 419 missing	3.7 B
	8. Typhoon Mina, Lando and Nonoy	Nov. 2007	Destructive	ZERO	
	9. TECF, Monsoon Rains	Feb. 2008	Destructive	ZERO	127 M
	10. Typhoon Dante	April 2009	Destructive	ZERO	
	11. Typhoon Ondoy	Sep. 2009	Destructive	ZERO	
	12. Typhoon Peping	Oct. 2009	Destructive	ZERO	
	13. Mayon Eruption	Dec. 14, 2009 - Jan. 2, 2010	Explosive	ZERO	

Major Disaster Events in Albay Province 1995-2011: Zero Casualty in 16 years except 2006 and 2011

Calamitics	Data	Affected Population		Damage Cost	
Calamities	Date	Persons	Dead	(Php)	
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	
Typhoon Milenyo	Sep 25 2006	698,460	14	1,665,316,133	
Typhoon Reming	Nov 28 2006	1,060,875	618	3,230,435,702	
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	10
Mayon Volcano Eruption	July 2009	47,563	0	16,659,000	ο Λ -
TS Chedeng	May 25 2011	221,094	0	5,710,768	e AS
TS Falcon	June 22 2011	107,253	0	46,762,630	ogram



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
 - o MDG achievement
 - HDI improvement
 - o 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

MDGs are achieved ahead of 2015 exc. MDG 2 and 7

Goal		Indicator	Bicol Region	Albay
1	Poverty Incidence		M	Н
	Subsistence Inciden	ce	Н	Н
	Underweight (IRS)		Н	Н
2	Participation - Elen	NADO	L	Н
	Cohort survival - el	MDGs are	M	M
3	Gender parity - ele	achievable, but	Н	Н
4	Under-five mortalit		Н	Н
	Infant mortality	must be owned	Н	Н
	Proportion of fully-	by their	M	Н
5	Maternal mortality	by their	L	Н
	Contraceptive prev	beneficiaries	L	M
	Condom use rate		L	M
6	Deaths due to TB		L	Н
	Malaria positive cas	es	Н	Н
7	Household with acc	ess to sanitary toilets	Н	L
	Household with acc	ess to safe drinking water	Н	Н

)B

Legend:

L	L low probability		high probability
M	M medium probability		no data





2010-2011	3,000,000.00
	10,000,000.00
	14,000,000.00
	5,000,000.00
	5,000,000.00
	10,000,000.00
	20,000,000.00
	24,203,000.00
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JUL	ly 2007
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	262,238.00
	22,535,242.48
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	1,305,000.00
	66,201.06
	2,091,846.83
	147, 964.61
	50,000.00
	564,489.75
	P

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
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

P894m mobilized from partners (July 2007-Dec 2011)

	6,100,000.00
	20,000,000.00
	363,606.50
	3,000,000.00
	1,000,000.00
	66,670,000.00
2012	3,500,000.00
2012	7,000,000.00
2012	4,150,000,00
2012	2,000,000.00
	894,002,742.62
	2012 2012



Highlights of DRR/CCA Programs

- Risk Mapping
 - Comprehensive Land Use Plans
- Integration into PDP, PDIP, AIP, PPMP
- Geostrategic Intervention (Go)
- Relocation (Go)
- Engineering Interventions (Defend)
- Social Preparations (Run)
 - 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





STARTING THEM EARLY



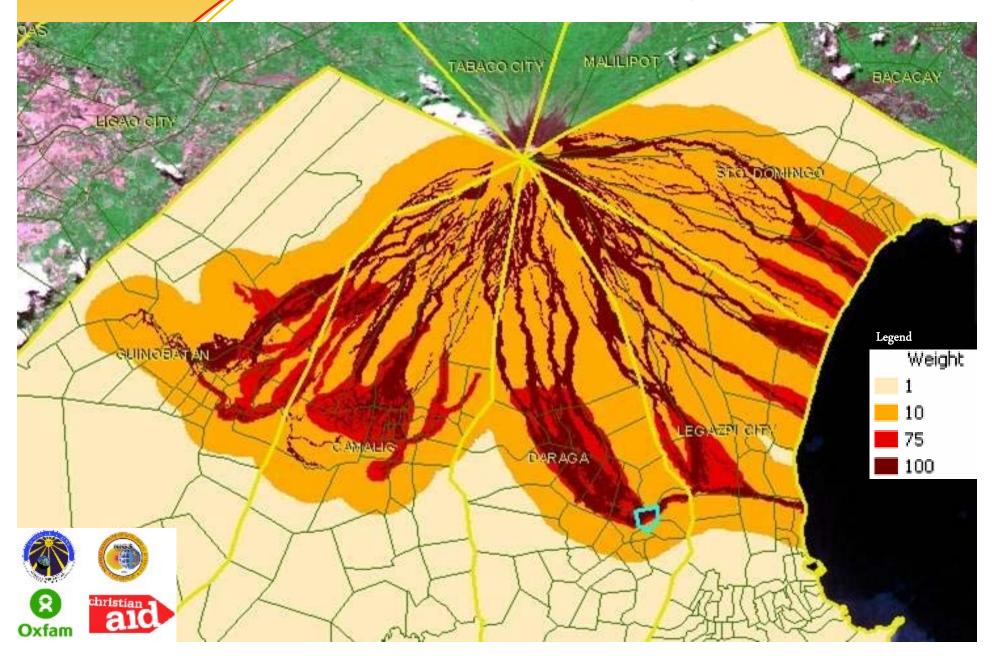
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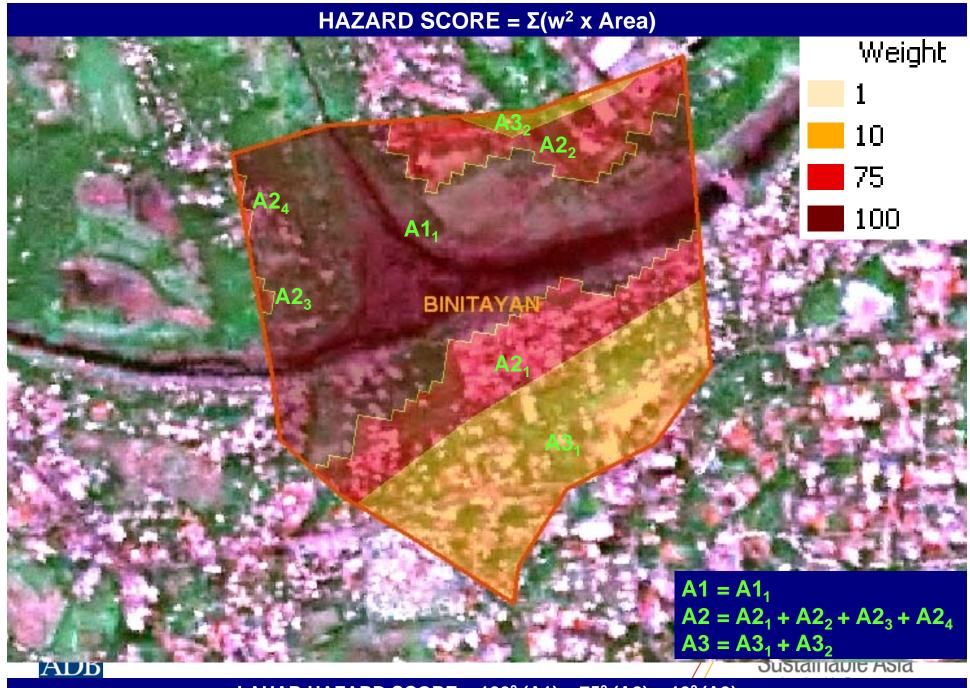
Sustainable Asia Leadership Program

Lahar Hazard Map



Lahar Hazard Map





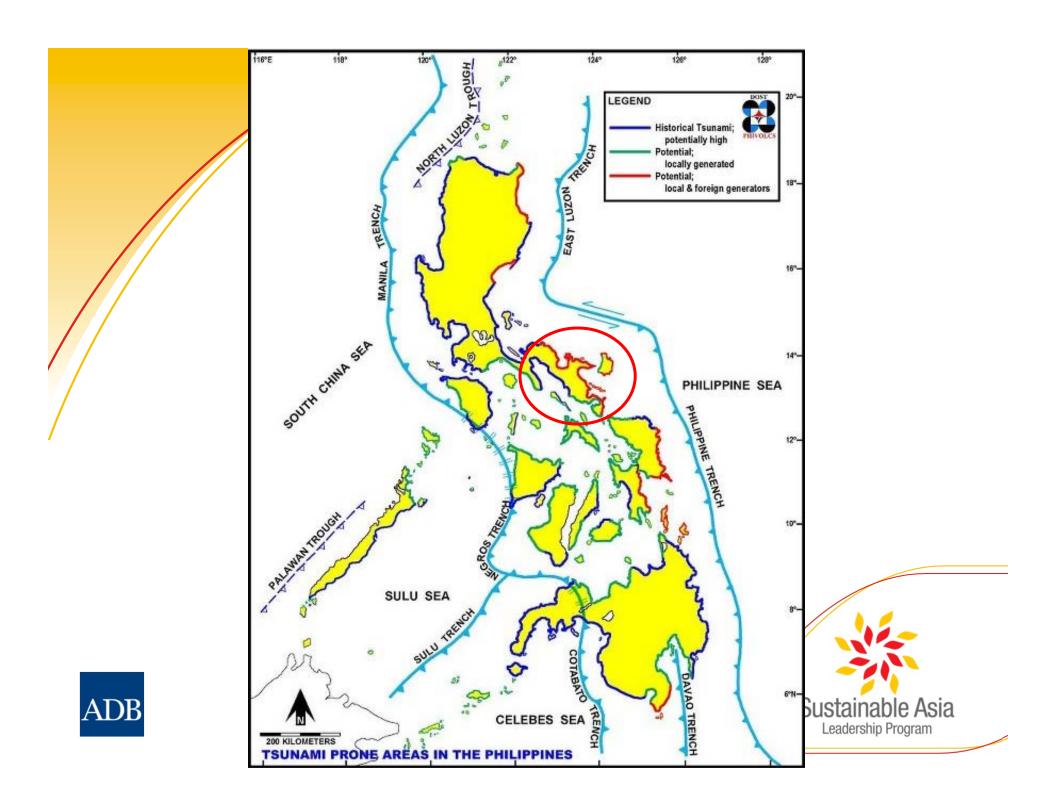
LAHAR HAZARD SCORE = 100^2 (A1) + 75^2 (A2) + 10^2 (A3)

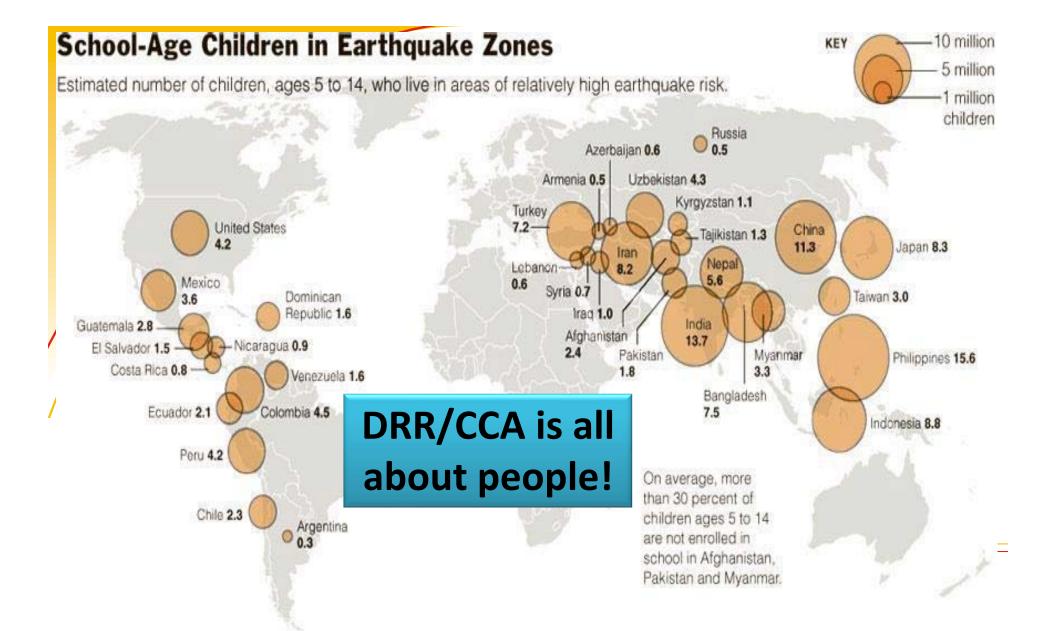
Disaster Risk Ranking of Albay

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









Sources: Susana Adamo and Maria Muñiz, Center for International Earth Science Information Network, Columbia University. Population estimates are based on data from the 2005 Gridded Population of the World data set and from the United Nations (with the exception of China, which is based on the Statistical Yearbook of the Republic of China, 2006). Earthquake hazard estimates are based on data from the Global Seismic Hazard Program.

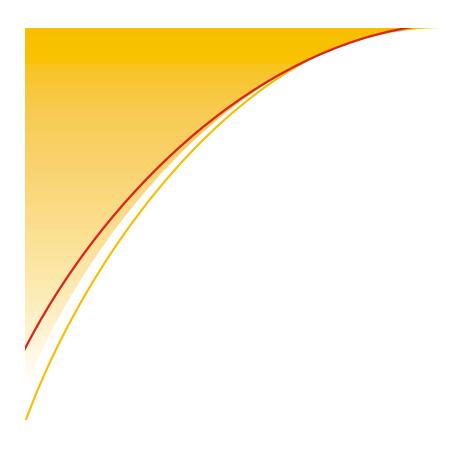


THANK YOU













DRR Practices of Albay

Hazard is largely science. Risk is hazard in the eye of the affected.



Governor Joey Sarte Salceda Province of Albay, Philippines







LIBON GUINOBATAN GAO CITY

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
- 2nd largest Province in the Bicol Region
- 4 major islands (CRaBS)
- Total coastline of 364 kms with 149 coastal barangays and 128,751 people



Disaster Risk and Vulnerability of Albay

Disasters

 19 to 21 occurrences of typhoon per year in the Philippines of which 3-5 major direct hits on Province of Albay.

Vatican of

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.



Jan 2012 Disaster Risk Assessment

											AUDELOW / LALIAB							
	NAME OF CITY/ MUNICIPALITY 1. TIWI 2. MALINAO 3. TABACO CITY 4. MALILIPOT 5. BACACAY 6. STO. DOMINGO		FLOODING						LANDSLIDE					MUDFLOW / LAHAR				
	N/	AME OF CITY/	No. of	Families	30% of the	Population	30% of the	No. of	Families	100% of the	Population	100% of the	No. of	Families	40% of the	Population	40% of the	
			Bgys	Affected	Affected		population	Bgys	Affected	Affected		population	Bgys	Affected	Affected		population	
			Affected		families			Affected		families			Affected		families			
	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	
7	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			-		-	
		TOTAL	468	56,384	16,915	294,584	88,375	152	13,322	13,322	63,964	63,964	67	37,729	15,092	172,665	69,066	

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.

Sustainable Asia Leadership Program



CULTURE OF RISK REDUCTION, not culture of response

- Reduction of risks boosts development. Development reduces risks.
- Poverty is key source of vulnerability- risky locations like danger zones and riverbanks are cheap.
- A well-educated, well-trained, healthy and well-employed population is a resilient population. [eg. Well-timed CCT in Manito enabled zero casualty in 2010 and 2011]
- Adaptation and DRR is an investment.
- No relocation, if homes are built safely. No evacuation, if vulnerable are relocated. No rescue, if evacuated. No rehab, if homes are built safely.



WHOLE OF GOVERNMENT WHOLE OF SOCIETY

- TEAM ALBAY (UN cluster approach)
- Seamless local national collaboration but local as convergence given primacy of local preference and indigenous knowledge
- Civilian-military seamless partnerships
- Government-Nongovernment cooperation including Church-State





Fairness to the poor, Fairness to the Future

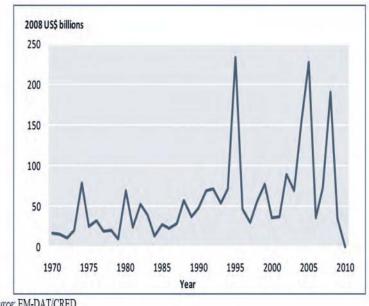
- Disasters kill poor people, make the poor poorer and breed more poor people. Thus, it is plain murder of the innocent and constitutes a moral failure. Social justice is the fundamental basis of DRR/CCA. It is the primordial duty of the state [and the civic duty of its elite and the markets they control] to save the vulnerable from disasters, climate change [and from themselves?].
 - The more disasters: the higher the rights of the vulnerable, the higher the duties of the state.
 - Zero casualty goal is a desirably ambitious and a socially desirable goal of the nation [Jesuits call it: holy desires]
- People have the basic right to the capacity to adapt.
 Relief, recovery and rehab is essentially a
 compensation [penalty] of the state for failing to
 reduce exposure and to increase capacity.

Economic Damage on the Rise

- **US\$** 1 trillion 2000 to 2010
- US\$109 billion 2010 alone
- The average cost of a disaster:

COUNTRY LEVEL	COST
Highly developed	US\$636M
Medium- developed	US\$209M
Low-income nation	US\$79M

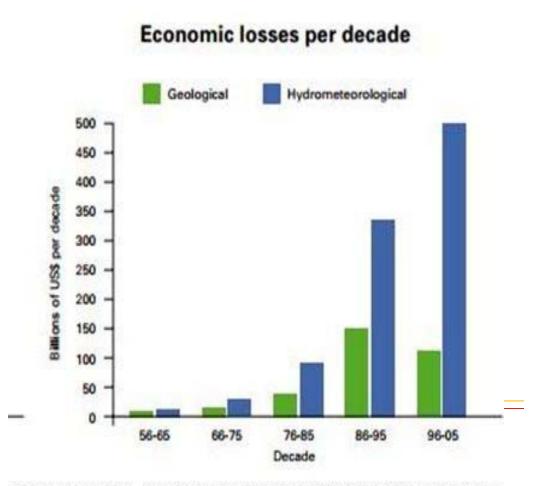


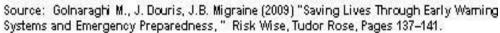


Source: EM-DAT/CRED

DRR is an Economic Issue

- Disasters are costing more and have longterm economic impacts
- Disasters caused
 US\$109 billion in
 economic damage in
 2010, three times more
 than in 2009.









Small-Scale Disasters Create Long-Term Impacts

- Tens of thousands of small-scale disasters occur each year
- Small-scale disasters are often unreported but have an increasingly huge impact on development and poverty.



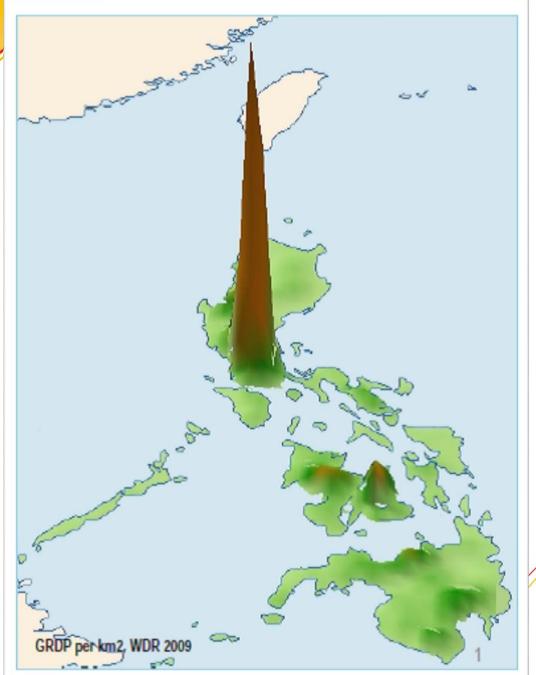


Less than 0.7 per cent of the total relief aid goes to disaster risk reduction

- Only 0.1% of Aid went to Prevention in 2001 and 0.7% in 2008
- 10% of Humanitarian Relief Funds Agreed in 2009











Average annual losses to infrastructure and agriculture in 10 most vulnerable provinces vs. their 2006 local calamity funds

	(1)	(2)	(3)	(1) - (2) - (3)		
Province	LCF	AAL INF	AAL AGR	Residual		
Albay	38,206,846	181,681,463	83,087,145	(226,561,762)		
Aurora	15,372,128	157,067,625	10,635,058	(152,330,555)		
Leyte	45,889,351	152,047,750	21,865,369	(128,023,768)		
Northern Samar	24,105,875	137,116,250	5,689,359	(118,699,735)		
Camarines Sur	40,279,550	135,439,000	173,851,548	(269,010,998)		
Western Samar	25,909,160	100,295,875	11,638,987	(86,025,702)		
Eastern Samar	20,636,040	78,787,500	12,184,160	(70,335,620)		
Sorsogon	28,002,809	77,714,250	79,660,002	(129,371,442)		
Catanduanes	15,285,628	65,753,579	41,626,084	(92,094,035)		
Quezon	60,531,722	62,009,699	48,098,181	(49,576,158)		
Total	314,219,109	1,147,912,992	488,335,892	(1,322,029,775)		

Source: World Bank

Leadership Program

POVERTY HEIGHTENS EXPOSURE TO DISASTER RISKS

	Annual P	er Capita	Poverty	Pov	erty Inc	idence A	Among F	amilies	(%)		Magnitu	ide of Poor F	amilies	2003 2006 1.4 1.3 4.3 4.3 8.5 10.1 14 22.6 7.7 6.6 29.3 33.3	
Region/Province	Threshold (in Pesos)			Estimates (%)			Coefficient of Variation			Estimates			Coefficient of Variation		
	2000	2003	2006	2000	2003	2006	2000	2003	2006	2000	2003	2006	2000	2003	2006
PHILIPPINES	11,458	12,309	15,057	27.5	24.4	26.9	1.6	1.3	1.3	4,146,663	4,022,695	4,677,305	1.6	1.4	1.3
Region V	11,375	12,379	15,015	45.3	40.6	41.8	4.2	3.6	3.5	407,176	383,625	422,278	4.7	4.3	4.3
/															
Albay	12,144	12,915	16,128	40.3	34.4	37.8	11.5	8.1	8.4	83,398	76,200	88,676	11.2	8.5	10.1
Camarines Norte	11,505	12,727	14,854	52.7	46.1	38.4	10.9	14.4	18.8	50,670	44,874	39,421	11.8	14	22.6
Camarines Sur	11,054	11,873	14,634	40.8	40.1	41.2	9.3	7.0	5.6	120,762	121,936	134,599	11.8	7.7	6.6
Catanduanes*	11,587	11,815	13,654	43.9	31.8	37.3	10.9	10.3	22.1	18,541	13,604	16,999	10.4	29.3	33.3
Masbate	11,019	12,504	14,248	61.3	55.9	51.0	5.8	A	lbay p	overty	1,804	80,512	5.9	7.4	8.0
Sorsogon	11,146	12,452	15,687	41.4	33.7	43.5	7.3		ciden	_	5,207	62,071	7.6	14.5	5.6
* Coefficient of Variation (CV) of 2006 poverty incidence is greater than 20%								37	7.8%,	while					

lowest in region,

remains high





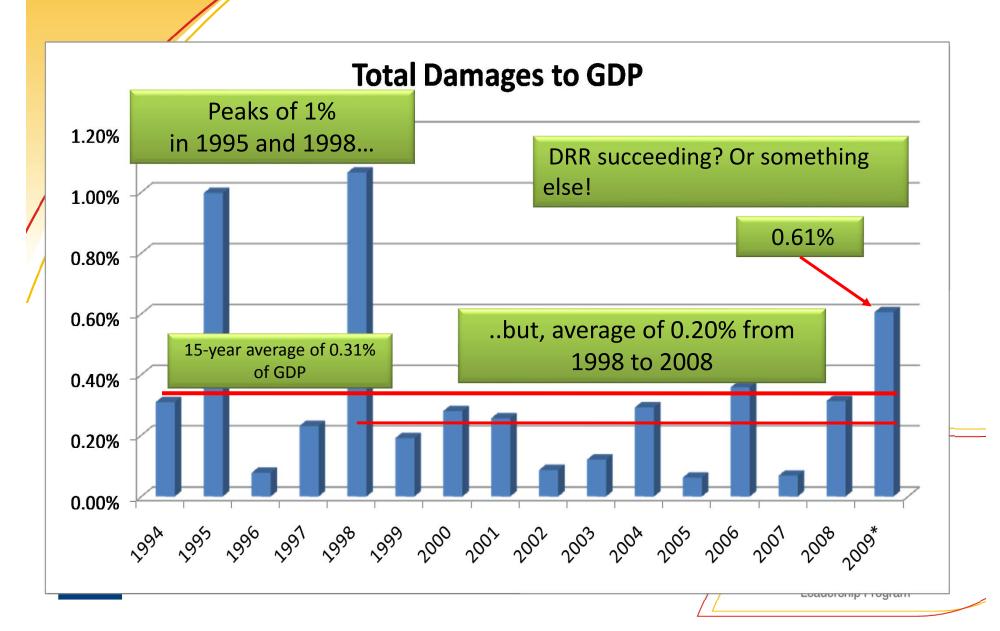
^{*} Coefficient of Variation (CV) of 2006 poverty incidence is greater than 20%

Climate Disasters make MDGs more expensive to achieve

Implications of Climate Change for Certain Key Millennium Development Goals								
Millennium Development Goals	Linkages with climate							
MDG 1	The Millennium Development Goal of eradicating extreme poverty and hunger involves reducing, by 50%,							
Eradicate extreme poverty and hunger	the number of people living on \$1 per day and the people affected by							
	hunger (with 1990 as baseline). It also encompasses the provision of productive employment for all. Destruction							
	of livelihood assets due to climate disasters, and the financial requirements of adaptation and mitigation, hit at							
	the core of development – poverty alleviation.							
	Climate variability, prevalence of floods and droughts, and the resultant water stress, have a pronounced							
	influence on farm productivity and consequently world food security. Rising food prices make basic nutrition							
	inaccessible while also reducing the finances available with the poor for education and health services.							
MDG 2	Destruction of educational infrastructure and deterioration in standards of living due to adverse climate							
Achieve universal primary education	conditions will impede achievement of universal primary education. Displacement due to climate-related							
	catastrophes can further exacerbate the situation.							
MDG 3	Women, given their roles in the household (which involve significant interaction with the environment), will							
Promote gender equality and	face the brunt of climate change.							
empower women	Agriculture, an important source of livelihood for women in rural areas, is one sector that is expected to be							
	amongst the worst hit.							
MDG 4	Programmes targeted at achieving health-related MDGs will need to contend with rise in the incidence of							
Reduce child mortality	vector-borne and water-borne diseases, and growing malnutrition. (The endemicity and epidemicity of							
	vectorborne diseases like malaria are influenced by climate changes [Hellmuth and Bhojwani 2007]).							
MDG 7	Climate change is closely tied with resource loss and nonavailability of adequate and quality water services,							
Ensure environmental sustainability	even while GHG emissions contributing to climate change are amongst the biggest threat to the environment.							
MDG 8	Developing a global partnership for development is not only a stand- alone MDG but is key to meeting the							
Develop a global partnership for	other goals as well. Climate change provides both a challenge and opportunity for building a global partnership							
development	that is equitable and effective. Environment as a 'global common' needs to be governed in a framework of transnational governance that takes on board the interests of all countries and communities.							
	transnational governance that takes on board the interests of all countries and communities.							

Source: http://www.adb.org/

Disaster Damages: Rising



NATURAL AND MAN MADE INCIDENTS

JANUARY 1, 1994 - DECEMBER 31, 2008

	YEAR	MMADE	NAT	C/	SUALTI	ES	AFFE	CTED	EVAC	JATED	DAMAG	ED HOUSES	DAMAGE	S TO PROP	ERTIES (P N	(ILLIONS)
		INCIDE	NTS	DEAD	INJ	MIS	FAMILIES	PERSON	FAMILIES	PERSONS	TOTALLY	PARTIALLY	INFRA	AGRI	PVT	TOTAL
	1994	171	104	643	1,120	600	726,802	3,601,757			66,564	260,390	1,766.140	2,243.645	1,236.096	5,245.9
	1995	299	111	1,873	5,148	708	1,793,438	8,907,608			296,860	842,065	3,706.770	13,627.964	1,666.835	19,001.6
	1996	148	106	527	550	193	313,297	1,530,923			5,004	24,004	359.260	601.187	717.944	1,678.4
	1997	196	72	360	624	20	584,311	524,694			5,341	22,076	1,302.600	1,701.566	553.524	5,586.7
	1998	229	40	1,155	1,320	186	1,761,911	8,272,191			137,964	406,455	5,282.000	19,090.000	3,312.000	28,368.0
	1999	167	94	870	773	110	1,584,810	4,369,941			23,128	76,621	1,720.000	2,408.000	1,540.000	5,668.0
	2000	240	108	1,557	1,751	147	1,810,772	9,036,699	36,841	181,238	36,934	198,999	2,995.790	6,101.860	308.370	9,406.0
	2001	244	71	867	1,399	227	982,544	4,704,550			20,753	58,501	4,324	4,241.85	701.338	9,267.2
	2002	231	60	610	2,187	3,098	848,017	5,055,025	55,294	293,190	6,985	11,232	730.381	1,534.333	1,155.461	3,420.2
/	2003	310	96	767	3,195	123	920,313	4,307,762	20,156	89,871			1,570.244	2,930.576	692.128	5,192.9
	2004	110	361	1,839	2,759	728	1,593,682	7,879,237	275,886	82,558	82,538	263,946	4,353.481	9,229.009	661.789	14,244.3
	2005	307	65	613	853	122	327,270	1,623,031	21,453	108,369	4,413	21,877	673.388	2,254.199	439.707	3,367.3
	2006	235	147	1,879	4,760	2,105	2,583,147	12,163,798	724,405	3,626,039	382,986	870,848	10416.666	11,060.201	174.262	21,651.1
	2007	337	233	671	1,457	94	891,694	4,287,763	76,888	377,527	9,460	22,853	1,326.655	2,889.204	31 .304	533.2
	2008	304	248	1,704	2,091	818	1,997,547	9,935,009	331,559	1,620,668	139,837	569,512	8,394.145	14,862.732	255 697	22,512.6
	Total	171	104	643	1,120	600	726,802	3,601,757	-	-	66,564	260,390	1,766	2,243.645	1,236.096	160,143.36

Source: Office of Civil Defense, Department of National Defense



Private property damages recorded at only P1.24bn or less than 1% of the total P160.14bn in 1994-2008!

RECOVERY: Calamity Fund

			110.05	50/ 05 4	1 011 110	0=1
		NG CF (Pm)	NG CF to	5% CF of	LGU + NG	CF to
	DAMAGES (Pm)	110 01 (1 111)	Damages	LGU (Pm)	(Pm)	Damages
1994	5,245.9	2,000.0	38.13%	2,350	4,350	82.92%
1995	19,001.6	2,000.0	10.53%	2,600	4,600	24.21%
1996	1,678.4	2,800.0	166.83%	2,850	5,650	336.63%
1997	5,586.7	2,000.0	35.80%	3,550	5,550	99.34%
1998	28,368.0	2,000.0	7.05%	3,850	5,850	20.62%
1999	5,668.0	1,000.0	17.64%	4,850	5,850	103.21%
2000	9,406.0	998.5	10.62%	5,600	6,599	70.15%
2001	9,267.2	998.5	10.77%	6,100	7,099	76.60%
2002	3,420.2	800.0	23.39%	6,700	7,500	219.29%
2003	5,192.9	700.0	13.48%	7,050	7,750	149.24%
2004	14,244.3	700.0	4.91%	If local calamity funds		
2005	3,367.3	700.0	20.79%	included, 121% but dedicate		اممدما
2006	Central gove	Central government can over only 27%		1		edicated
2007	_			to local ris	sks	
2008	20,012.0	∠,∪∪∪.∪	8.51%	10,550	12,550	53.38%
Total	160,143.4	21,047	26.68%	88,150	109,197	120.56%



..Huge interspatial variance in disaster risks

TYPHOON DURIAN: FINANCIAL IMPLICATIONS ON ALBAY

	Damage	Formal / Recorded	Amount	ltem	Rate of
1. Public Infrastructure	Sustained 4,005	Sources of Recovery	3,872		Recovery 97%
Natl Roads/Bridges	2,700	DPWH	1,400	Spcl Item in Natl Budget	3176
Hati Nodas, Bridges	2,700		980	Realignment/Augmentation	-
			250	Supplemental Natl Budget	1
Provincial Facilities	98	GSIS	28	Insurance Claim	1
Natl Health Facilities	148	DOH	78	SpcI Item in Natl Budget	
Local Health Facilities	219	Transfer	160	Spcl Item in Natl Budget	
		AECID	28	'	
P41m from cla	aims 🛼	Deped	630	Spcl Item in Natl Budget	
		AECID	170	Grant	
College	210	CHED	148	Spcl Item in Natl Budget	
2. Agriculture	903	6%	340		38%
Crops	570	DA	160	Spcl Item in Natl Budget	
		DAR	180	Spcl Item in Natl Budget	
		PCIC	13	Insurance Claim	
Irrigation	333	NIA	180	Spcl Item in Natl Budget	
3. Private Housing	10,045	67%	2,225		22%
Totally Damaged: 112,074	7,845	NHA	750	Spcl Item in Natl Budget	
Partlly Damaged: 99,986	2,200	DSWD	750	Spcl Item in Natl Budget	
		USAID	125	Grant	
		NGOs	300	Grants	
		HDMF	300	P100T home improvement loans	
Total	14,952)	6,437	Pecovery rate from formal sources	43%
200/ (All	CDD		5,078	Recovery from private sources	34%
36% of Albay	GDP		11,515	Total Recovery	77%
			3,437	Unrecovered	23%

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

Item of Expenditure	Amount	%
Personnel Services	302	38%
of which		
10% increase	27	3%
14th month + P12,000	24	3%
Regular Salaries	251	31%
Mem Health PS	139	17%
MOOE	127	16%
of which		
Health MOOE	57	7%
Regular MOOE	70	9%
Jail MOOE	10	1%
Programs	337	42%
of which		
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%
Debt Service		
Dobt Conjoins	38	5%
Debt Servicing		

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

Highlights

- 9% of <u>regular budget</u> 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

BREAKDOWN OF 5% PROVINCIAL DISASTER RISK REDUCTION MANAGEMENT FUND

CY 2012

PARTICULARS	NET AMOUNT (PhP)
 I - 30% Quick Response Activities: 1. Quick response and recovery which will be spent to any of the following: Relief and Food commodities, Medicines, Fuels and lubricants, emergency transportation services, Communication Services, Purchase of Rubber boats, training expenses & other recovery programs, such as: housing materials, monitoring & evaluation activities, repair and reconstruction and other works and services. 	15,013,839.68
SUBTOTAL	15,013,839.68

35,032,292.57
35,032,292.57
50,046,132.25



Prepared by:

APPROVED:

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APSEMO Dept. Head

& PDRRMC Exec. Officer

JOEY SARTE SALCEDA

Governor

& PDRRMC Chairman



ALBAY PUBLIC SAFETY AND EMERGENCY MANAGEMENT Provincial Disaster Operation Center Old Albay, Legazpi City

Year Personal Services MOQE Capital Outley TOTAL Remarks 2012 7,501,895.60 1,340,000.00 0 8,841,895.60 8 2011 6,874,005.60 1,380,000.00 0.00 8,254,005.60 9 2010 6,265,769.86 1,380,000.00 50,000.00 7,695,769.86 9 2009 5,114,684.16 2,738,484.32 2,015,289.00 9,868,457.48 2008 4,993,894.92 1,155,000.00 220,000.00 6,368,894.92 2007 4,606,243.00 1,151,000.00 117,608.00 5,874,851.00 2008 4,336,894.00 1,151,000.00 117,608.00 5,605,502.00 2009 3,227,748.00 1,139,000.00 160,000.00 4,526,748.00* PS- Items under Med Serv Div Transf to hospitals (incliding, funding) 2004 3,446,536.38 1,157,000.00 190,000.00 4,703,536.38 2003 3,882,603.00 1,072,000.00 100,000.00 5,054,603.00 33,465.7 2002 3,840,465.12 1,172,000.00 189,585.00 5,202						
2011	Year	Personal Services	MOOE	Capital Outlay	TOTAL	Remarks
2010 6,265,769.86 1,380,000.00 50,000.00 7,695,769.86 2009 5,114,684.16 2,738,484.32 2,015,289.00 9,868,457.48 2008 4,993,894.92 1,155,000.00 220,000.00 6,368,894.92 2007 4,606,243.00 1,151,000.00 117,608.00 5,874,851.00 2006 4,336,894.00 1,151,000.00 117,608.00 5,605,502.00 2005 3,227,748.00 1,139,000.00 160,000.00 4,526,748.00 PS- Items under Med Serv Div Transf to hospitals (Inciding, funding) 2004 3,446,536.38 1,157,000.00 100,000.00 4,703,536.38 2003 3,882,603.00 1,072,000.00 100,000.00 5,054,603.00 33,465.7 Salary adjustments (PS) 2002 3,840,465.12 1,172,000.00 189,585.00 5,202,050.12 Purchase of Motorcycles under Supplemental Bud. (Capital Outlar) 2001 2,832,162.00 1,172,000.00 - 4,004,162.00 821,880.7 Salary adjustments (PS) 2000 2,720,005.00 1,000,000.00 - 3,720,005.00 1998 2,409,900.00 394,700.00 350,000.00 3,154,600.00 1998 2,189,385.00 391,900.00 - 1,747,527.00 1996 463,150.00 288,910.50 - 752,060.94	2012				8,841,895.60	
2010 6,265,769.86 1,380,000.00 50,000.00 7,695,769.86 2009 5,114,684.16 2,738,484.32 2,015,289.00 9,868,457.48 2008 4,993,894.92 1,155,000.00 220,000.00 6,368,894.92 2007 4,606,243.00 1,151,000.00 117,608.00 5,874,851.00 2006 4,336,894.00 1,151,000.00 117,608.00 5,605,502.00 2005 3,227,748.00 1,139,000.00 160,000.00 4,526,748.00 PS- Items under Med Serv Div Transf to hospitals (Inciding, funding) 2004 3,446,536.38 1,157,000.00 100,000.00 4,703,536.38 2003 3,882,603.00 1,072,000.00 100,000.00 5,054,603.00 33,465.7 Salary adjustments (PS) 2002 3,840,465.12 1,172,000.00 189,585.00 5,202,050.12 Purchase of Motorcycles under Supplemental Bud. (Capital Outlar) 2001 2,832,162.00 1,172,000.00 - 4,004,162.00 821,880.7 Salary adjustments (PS) 2000 2,720,005.00 1,000,000.00 - 3,720,005.00 1998 2,409,900.00 394,700.00 350,000.00 3,154,600.00 1998 2,189,385.00 391,900.00 - 1,747,527.00 1996 463,150.00 288,910.50 - 752,060.94						
2009	2011	6,874,005.60	1,380,000.00	0.00	8,254,005.60	
2009						
2008	2010	6,265,769.86	1,380,000.00	50,000.00	7,695,769.86	
2008						
2007	2009	5,114,684.16	2,738,484.32	2,015,289.00	9,868,457.48	
2007						
2006	2008	4,993,894.92	1,155,000.00	220,000.00	6,368,894.92	
2006						
2006						
2005 3,227,748.00 1,139,000.00 160,000.00 4,526,748.00 PS- Items under Med Serv Div Transf to hospitals (Inclding, funding) 2004 3,446,536.38 1,157,000.00 100,000.00 4,703,536.38 2003 3,882,603.00 1,072,000.00 100,000.00 5,054,603.00 33,465.7 Salary adjustments (PS) 2002 3,840,465.12 1,172,000.00 189,585.00 5,202,050.12 Purchase of Motorcycles under Supplemental Bud. (Capital Outlay) 2001 2,832,162.00 1,172,000.00 - 4,004,162.00 821,880.7 Salary adjustments (PS) 2000 2,720,005.00 1,000,000.00 - 3,720,005.00 1999 2,409,900.00 394,700.00 350,000.00 3,154,600.00 1998 2,189,385.00 391,900.00 - 1,747,527.00 1996 463,150.00 288,910.50 - 752,060.94	2007	4,606,243.00	1,151,000.00	117,608.00	5,874,851.00	
2005 3,227,748.00 1,139,000.00 160,000.00 4,526,748.00 PS- Items under Med Serv Div Transf to hospitals (Inclding, funding) 2004 3,446,536.38 1,157,000.00 100,000.00 4,703,536.38 2003 3,882,603.00 1,072,000.00 100,000.00 5,054,603.00 33,465.7 Salary adjustments (PS) 2002 3,840,465.12 1,172,000.00 189,585.00 5,202,050.12 Purchase of Motorcycles under Supplemental Bud. (Capital Outlay) 2001 2,832,162.00 1,172,000.00 - 4,004,162.00 821,880.7 Salary adjustments (PS) 2000 2,720,005.00 1,000,000.00 - 3,720,005.00 1999 2,409,900.00 394,700.00 350,000.00 3,154,600.00 1998 2,189,385.00 391,900.00 - 1,747,527.00 1996 463,150.00 288,910.50 - 752,060.94						
2005 3,227,748.00 1,139,000.00 160,000.00 4,526,748.00 PS- Items under Med Serv Div Transf to hospitals (Inclding, funding) 2004 3,446,536.38 1,157,000.00 100,000.00 4,703,536.38 2003 3,882,603.00 1,072,000.00 100,000.00 5,054,603.00 33,465.7 Salary adjustments (PS) 2002 3,840,465.12 1,172,000.00 189,585.00 5,202,050.12 Purchase of Motorcycles under Supplemental Bud. (Capital Outlay) 2001 2,832,162.00 1,172,000.00 - 4,004,162.00 821,880.7 Salary adjustments (PS) 2000 2,720,005.00 1,000,000.00 - 3,720,005.00 1999 2,409,900.00 394,700.00 350,000.00 3,154,600.00 1998 2,189,385.00 391,900.00 - 1,747,527.00 1996 463,150.00 288,910.50 - 752,060.94						
2005 3,227,748.00 1,139,000.00 160,000.00 4,526,748.00 PS- Items under Med Serv Div Transf to hospitals (Inclding, funding) 2004 3,446,536.38 1,157,000.00 100,000.00 4,703,536.38 2003 3,882,603.00 1,072,000.00 100,000.00 5,054,603.00 Salary adjustments (PS) 2002 3,840,465.12 1,172,000.00 189,585.00 5,202,050.12 Purchase of Motorcycles under Supplemental Bud. (Capital Outlay) 2001 2,832,162.00 1,172,000.00 - 4,004,162.00 821,880.7 2000 2,720,005.00 1,000,000.00 - 3,720,005.00 1999 2,409,900.00 394,700.00 350,000.00 3,154,600.00 1998 2,189,385.00 391,900.00 - 2,581,285.00 1999 1,377,527.00 370,000.00 - 1,747,527.00 1996 463,150.00 288,910.50 - 752,060.94	2006	4,336,894.00	1,151,000.00	117,608.00	5,605,502.00	
Serv Div Transf to hospitals (Inclding, funding) 2004						
Serv Div Transf to hospitals (Inclding, funding) 2004						
2004 3,446,536.38 1,157,000.00 100,000.00 4,703,536.38	2005	3,227,748.00	1,139,000.00	160,000.00	4,526,748.00	*PS- Items under Med
2004 3,446,536.38 1,157,000.00 100,000.00 4,703,536.38						Serv Div Transf to hos-
2004 3,446,536.38 1,157,000.00 100,000.00 4,703,536.38 2003 3,882,603.00 1,072,000.00 100,000.00 5,054,603.00 33,465.7 2002 3,840,465.12 1,172,000.00 189,585.00 5,202,050.12 Purchase of Motorcycles under Supplemental Bud. (Capital Outlay) 2001 2,832,162.00 1,172,000.00 - 4,004,162.00 821,880.7 2000 2,720,005.00 1,000,000.00 - 3,720,005.00 1999 2,409,900.00 394,700.00 350,000.00 3,154,600.00 1998 2,189,385.00 391,900.00 - 1,747,527.00 1999 463,150.00 288,910.50 - 752,060.94 1995 496,727.00 174,031.00 31,500.00 702,258.00						
2003 3,882,603.00 1,072,000.00 100,000.00 5,054,603.00 33,465.7 2002 3,840,465.12 1,172,000.00 189,585.00 5,202,050.12 Purchase of Motorcycles under Supplemental Bud. (Capital Outlay) 2001 2,832,162.00 1,172,000.00 - 4,004,162.00 821,880.7 2000 2,720,005.00 1,000,000.00 - 3,720,005.00 1999 2,409,900.00 394,700.00 350,000.00 3,154,600.00 1998 2,189,385.00 391,900.00 - 2,581,285.00 1999 1,377,527.00 370,000.00 - 1,747,527.00 1996 463,150.00 288,910.50 - 752,060.94						3,
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Statistician IV

MA. CRISTINA S. ADOR

Noted:

CEDRIC D. DAEP, PhD Department Head



ALBAY PUBLIC SAFETY AND EMERGENCY MANAGEMENT OFFICE Provincial Disater Operation Center Legazpi City

FUNDING ASSISTANCE TO THE PROVINCIAL GOVERNMENT OF ALBAY

DONOR / AGENCY	YEAR	AMOUNT	AMOUNT (PhP)
FOREIGN:			
1. AGENCIA ESPANOLA DE			
COOPERACION			
INTERNACIONAL			
PARA EL DESARROLLO (AECID)	2008	60,000,000.00	
	2008	10,500,000.00	
	2009	25,189,980.00	
	2011	30,000,000.00	
	2011	13,425,800.00	
(DOH)	2011	17,000,000.00	
(DOH-Vehicle)	2011	1,568,000.00	
SUB-TOTAL (PhP)		157,683,780.00	
2. GOVERNMENT OF KOREA		PhP2147000	
3. UNDP (CIRCA- Dollars)	2009-2012	400,000.00	
(HIV- PhP)	2012	PhP150000	
LOCAL (PHIL. AGENCY)			
Natl Irrigation Authority	2007		4,750,000.00
DAR			6,000,000.00
DA			40,000,000.00
NIA			14,000,000.00
CF - CARE			50,000,000.00
I L O -Intl Labor Org			86,420.00
MVUC - SLRF			1,745,580.22





2010-2011	3,000,000.00
	10,000,000.00
	14,000,000.00
	5,000,000.00
	5,000,000.00
	10,000,000.00
	20,000,000.00
	24,203,000.00
	396,377.00
	3,261,334.14
	135,000,000.00
	83,250.00
	200,000.00
	6,068,000.00
	101,496.89
	3,500,000.00
	262,238.00
	22,535,242.48
	366,000.00
	1,305,000.00
	66,201.06
	2,091,846.83
	147, 964.61
	50,000.00
	564,489.75
	33,400.00
	2010-2011

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. DOH- (NAT'L PHILHEALTH REG.		
DAY)		3,649,200.00
36. DONATION FROM CEBU		5,000,000.00
37. TF CALAMITY FUND-OCD		42,000,000.00
38. BSWM		150,000,000.00
40. DBM-NCA		55,000,000.00
41. DBM		20,000,000.00
42. DILG-PAMANA NG LAHI		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 ENHANCE-		
MENT 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
TOTAL		894,002,742.62



Leadership Program

Resources for Institutionalized DMO

Permanent office: APSEMO

- created by ordinance in 1994 with regular plantilla of 25 including emergency research and disaster specialists.
- has managed and survived disasters [including 7 governors!]

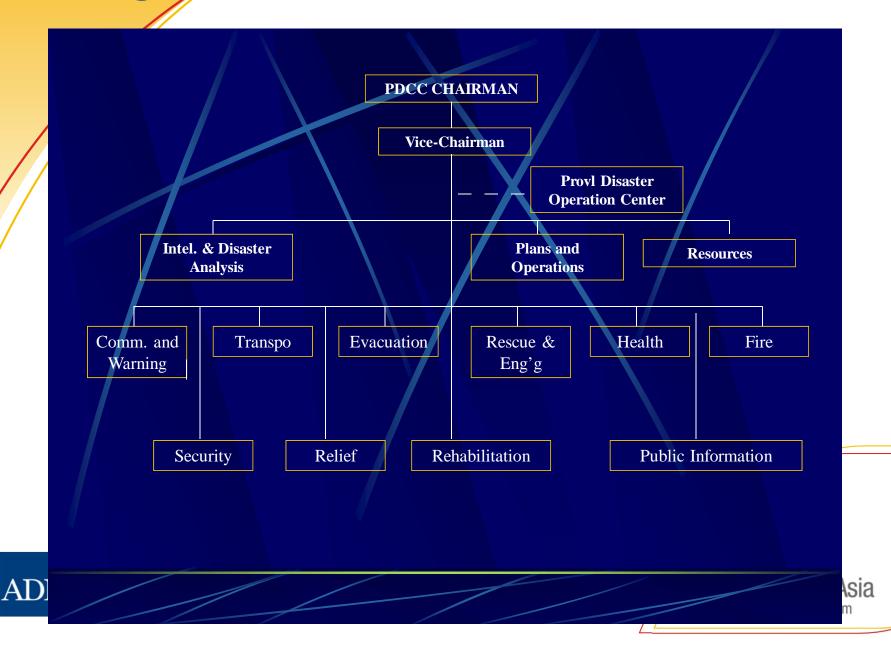
Sources of Funds

- 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





Organizational Structure as a Council



Organizational Structure as DRR Permanent Office **Albay** Public Safety & Emergency Management Office Provl. Govt. Dept. Head Asst. Provl. Govt. Dept. Head Medical & Research **Documentation** Emergency Services **Road Safety** & Statistics Division Division Division Information & Planning & **Operations Training** Division Division Sustainable Asia Leadership Program

Emergency Management Structure when emergency situation is declared

Disaster Management Coordinator

Asst. Disaster Management Coordinator

Administrative

Operations





Emergency Management Structure when emergency situation is declared

ADMINISTRATIVE

Budget & Data Bank Finance Documentation & Sanggunian Research liaison Housekeeping Institutional Warehousing **Networking NGO Assistance Risk Mapping Others**



Planning

Sustainable Asia Leadership Program

Emergency Management Structure when emergency situation is declared

Area Based Emergency Response Functions

Security Relief Warning **Engineering** Transportation Stress Management Communication Health & **Rescue & Evacuation** Sanitation Educ. & Trng. Info. & Media Releases Livelihood Livestock Price Monitoring &

ADB

Control

nable Asia

rship Program

Evacuation

Emergency Management Structure when emergency situation is declared

OPERATIONS

Hazard-Based Permanent Specialized Structure

Volcanic Hazards

Seismic Hazards

Geologic Hazards

Hydrologic Hazards

Meteorologic Hazards

Area Based Emergency Response Coordinators

District 1 – (Tabaco)

5 Mun & 1 City

District 2 – (Legazpi)

4 Mun & 1 City

District 3 – (Polangui)

6 Mun & 1 City

Sustainable Asia Leadership Program



Disaster Operation Center Facilities and Equipment

- Office spaces in 3-floor PDMO Bldg (Provincial Disaster Management Office)
- Warehouse
- Powerhouse and 3 units of power generators (5 kva, 3kva & 600 volts)
- Information room
- Conference room (70 persons capacity)
- Radio room
- Staff quarters
- Communication and documentation equipment
- GPS
- 2 vehicles (one 4x4 nissan frontier and one rescue ambulance with stretcher, spine board and emergency medical and rescue kits)



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 4th 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 Asia agencies, NGOs and INGOs for capacity building and skills training Leadership Program

Resources for Institutionalized MDG Office

Program office: AMDGO

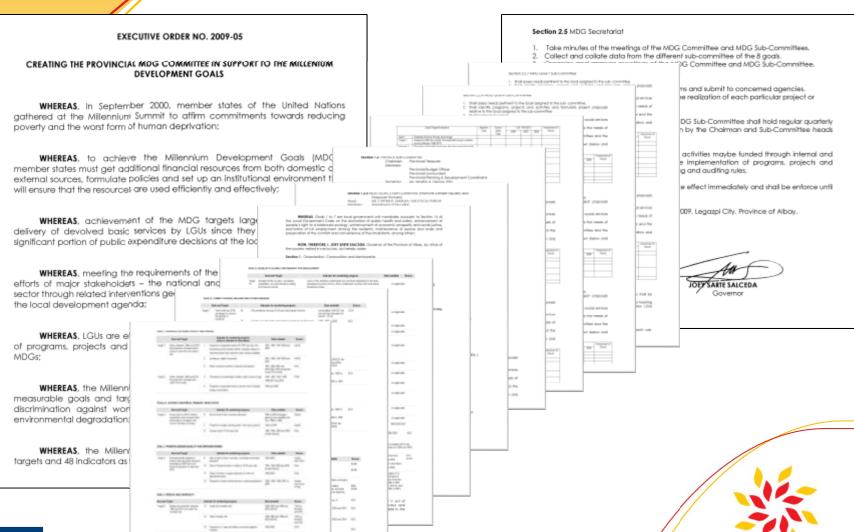
- created by ordinance in 2009 with regular provincial budget
- Oversight to MDG performance and secretariat to MDG Supercom
- Management MDG projects
 - Manages relocation program
 - Social assets programs esp livelihood like SEA-K, ETODA
 - CRABS or coastal and marine resources management
 - AIDS Council 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



Sustainable Asia Leadership Program



Resources for Institutionalized Training

Program office: Climate Change Academy

/Initiated by UNDP, CCC and Provincial Govt of Albay

- Office inaugurated by President Noy Aquino
- Visited by Queen Sofia of Spain
- Institution for knowledge management
 - International trainees- Laos, Myanmar, Cambodia, Vietnam, Kenya, Nigeria and

Timor Leste

• Local- 57 LGUs

Sources of Funds

- Regular allocation from the annual provincial budget (IRA)
- To implement P5m from DENR
- To implement P30m from OCD





Highlights of DRR/CCA Programs

- Risk Mapping
 - Comprehensive Land Use Plans
- Integration into PDP, PDIP, AIP, PPMP
- Geostrategic Intervention (Go)
- Relocation (Go)
- Engineering Interventions (Defend)
- Social Preparations (Run)
 - 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:

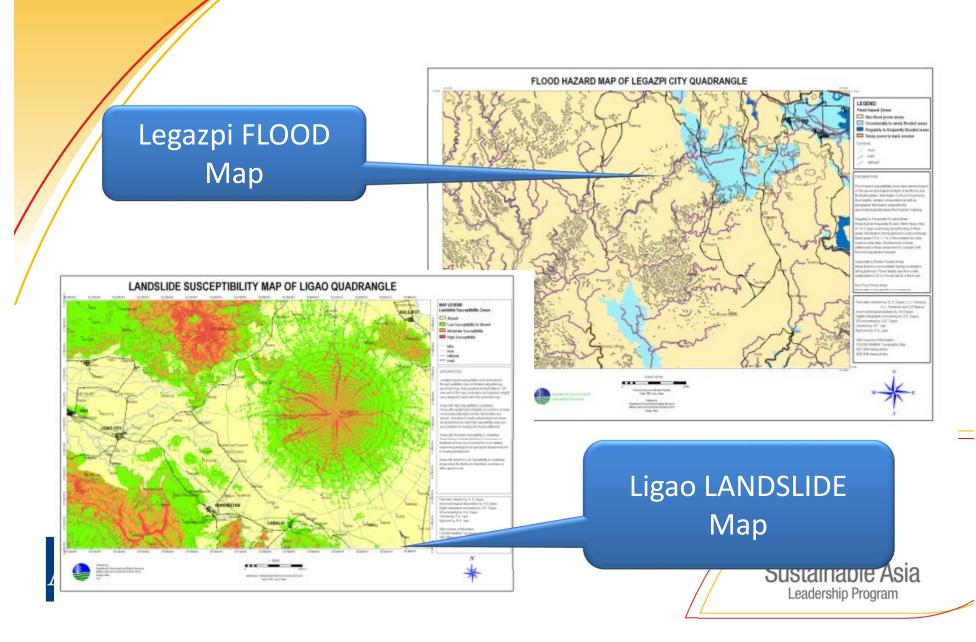
- PHIVOLCS
 - Earthquake mapping
 - Volcanic Hazard Mapping
 - REDAS training for LGUs
 - Tsunami
- PAGASA
 - Flood Mapping
- Mines and Geo-Sciences Bureau
 - Landslide mapping
- Manila Observatory
 - Mudflow (Lahar) mapping
- Component LGUs (but technical assistance from province)

Sustainable Asia

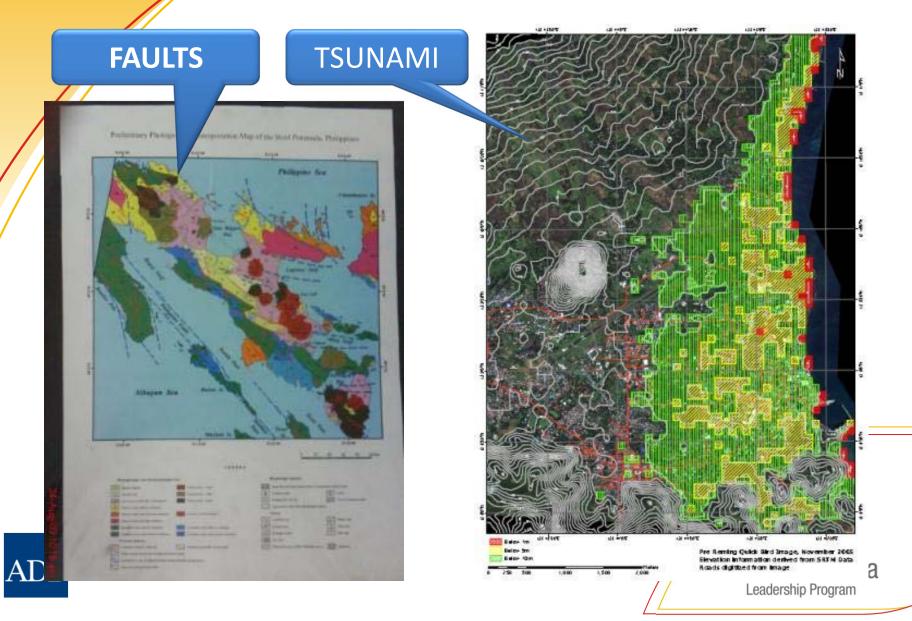
- Population and Resource Mapping
- Comprehensive Land Use Plan



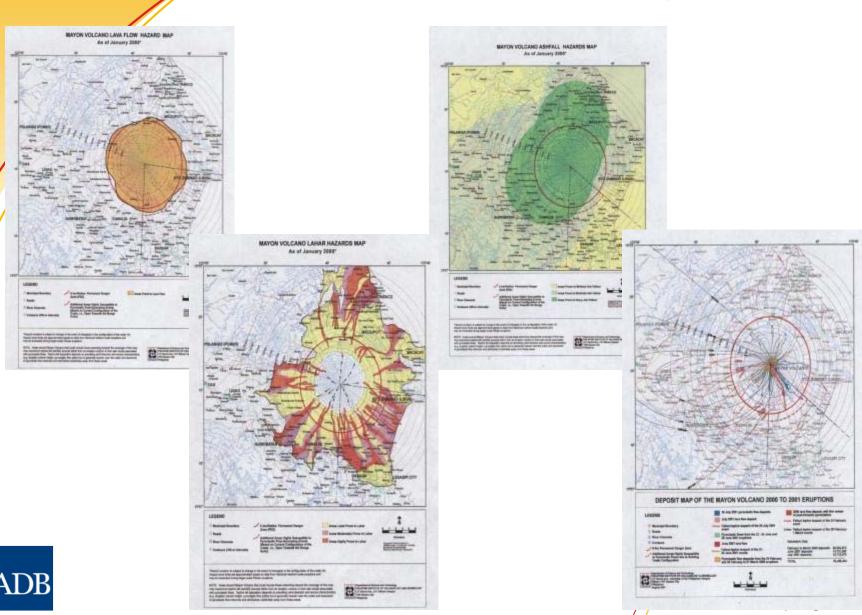
Hazard Maps



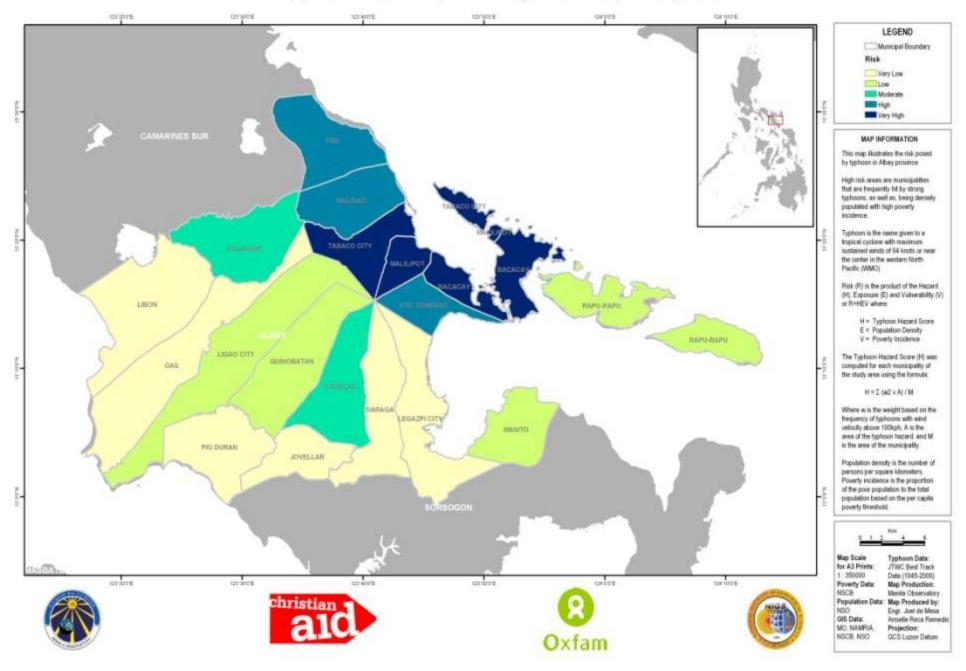
Earthquake Map



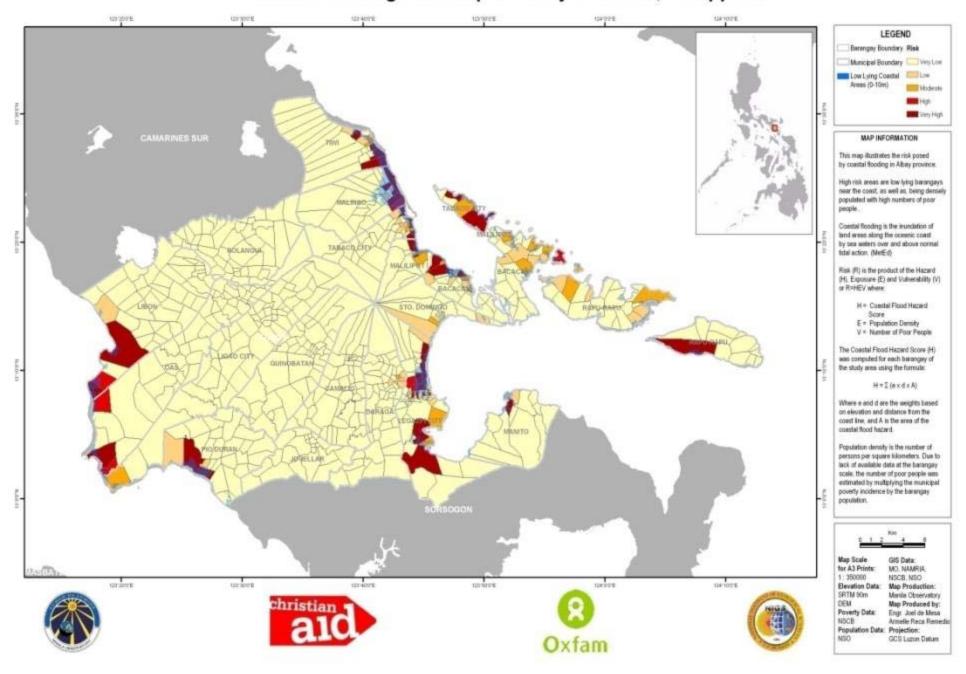
Volcanic Hazard Map



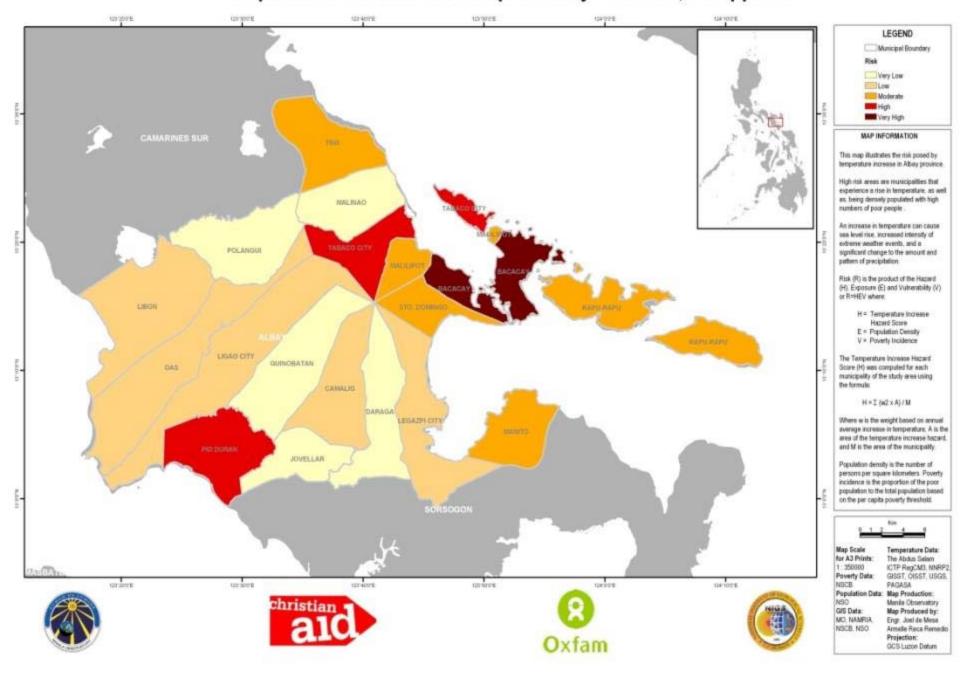
Typhoon Risk Map of Albay Province, Philippines



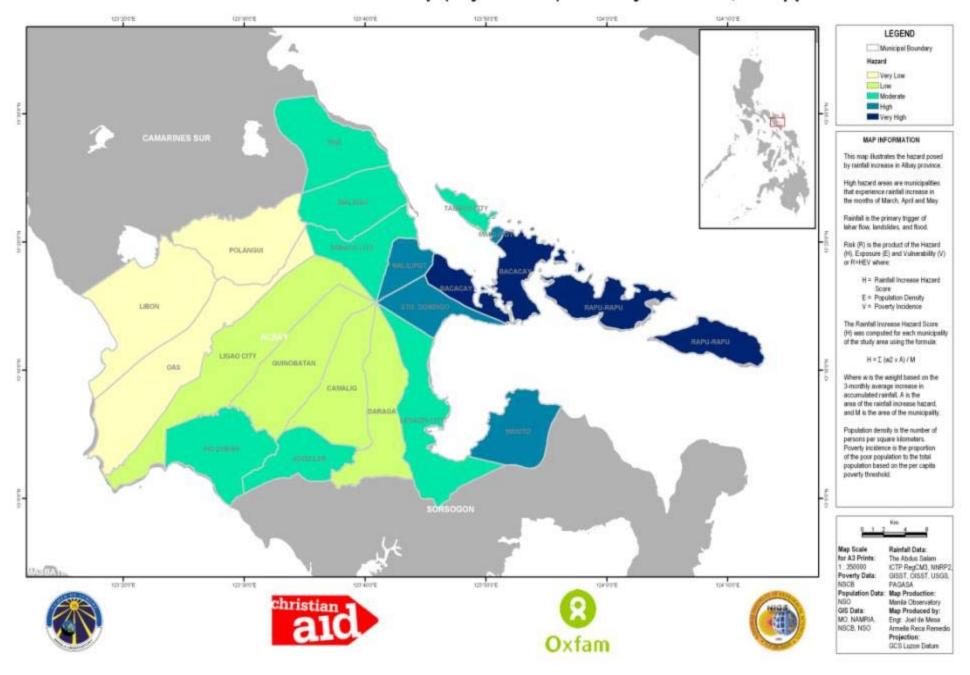
Coastal Flooding Risk Map of Albay Province, Philippines



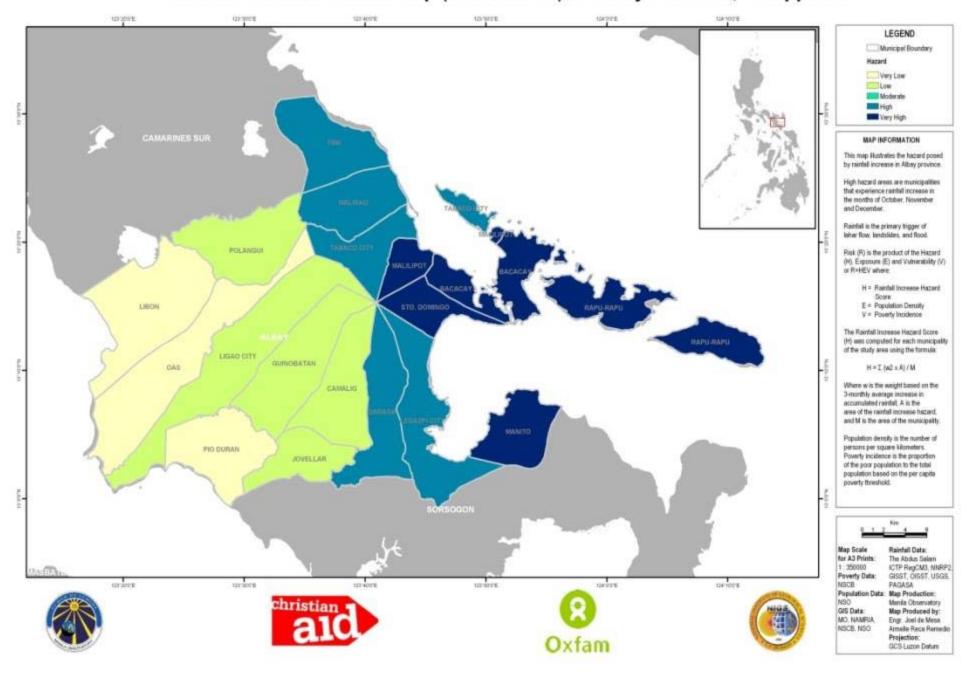
Temperature Increase Risk Map of Albay Province, Philippines



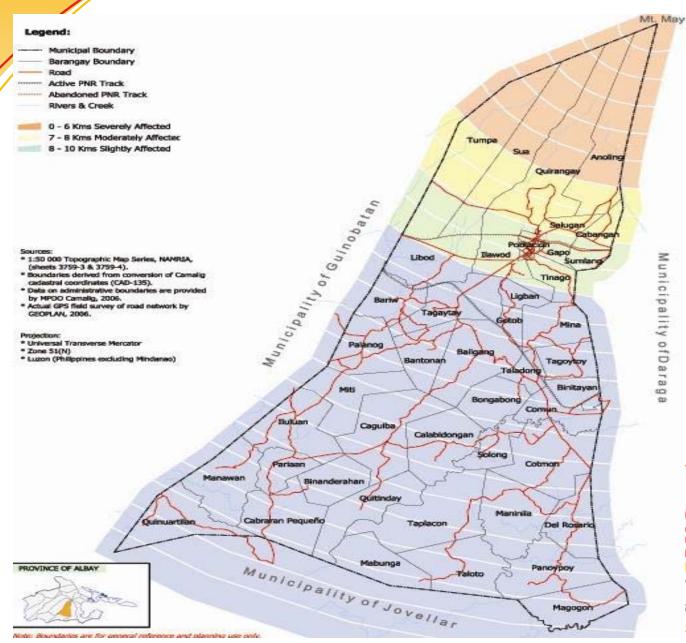
Rainfall Increase Hazard Map (Dry Season) of Albay Province, Philippines



Rainfall Increase Hazard Map (Wet Season) of Albay Province, Philippines



Risk Mapping



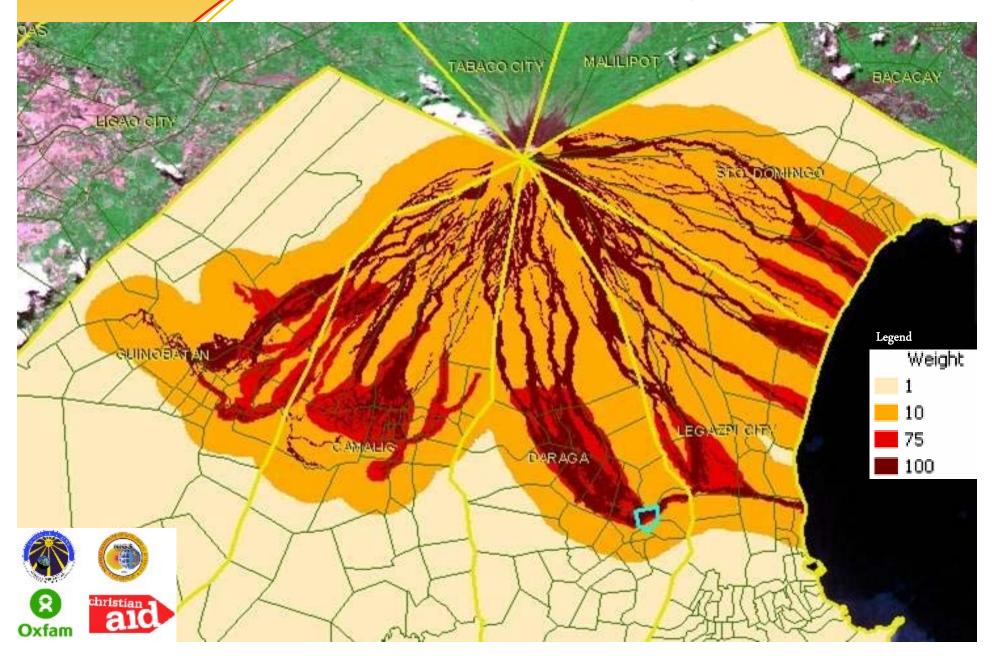


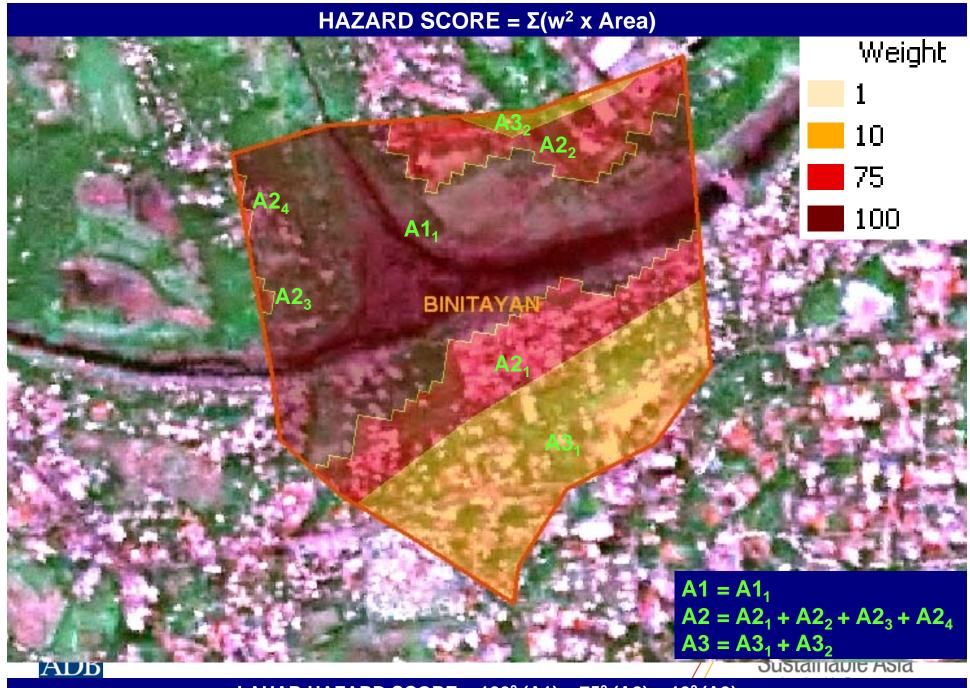


Lahar Hazard Map



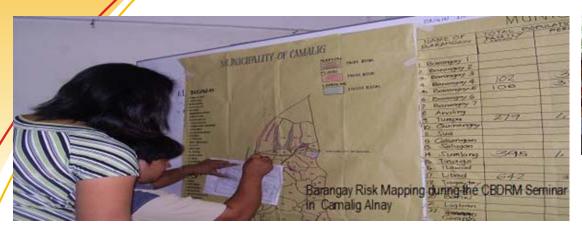
Lahar Hazard Map





LAHAR HAZARD SCORE = 100^2 (A1) + 75^2 (A2) + 10^2 (A3)

Community-based Risk Mapping











Risk Reduction: Land Use Plan and Zoning

Comprehensive Land Use Plan

- First line of defense against disaster: science-based adaptation
- SIMCLIM (localized climate scenario) software customized for Albay
- Training of 18 municipalities in preparation of CLUPs on integration climate risks at municipal level
- VA / SEI analysis now complete (vulnerability assessment) / socioeconomic impacts
- Integration of climate and disaster risks into zoning ordinance remains a continuing task
- Source of Funds: P16m from UNDF MDGCF

Soil Analysis

- BSWM-led soil testing of 15 LGUs with 3 already done (Polangui, Ligao and Tiwi)
- Source of Funds:P5m from Dept of Agriculture MOOE downloaded to Provincial Government



Albay Prov'l Devt Investment Plan 2011-16

	NAME OF PROJECT/PROGRAM	TOTAL PROJECT COST
	DRR/CCA Receptive Infrastructure PPAs	
	1. GUICADALE ROAD PROJECTS	2,893,657,402.71
	2. SOUTHERN LUZON INTERNATIONAL AIRPORT	3,400,000,000.00
	3. ALBAY WEST COAST ROAD	663,520,000.00
	4. BICOL ALTERNATIVE HIGHWAY - DARAGA - OAS SECTION	250,000,000.00
/	5. OAS -CAGMANABA ROAD	250,000,000.00
	6. COMPREHENSIVE DISASTER PREVENTION AROUND MAYON VOLCANO	39,257,300,000.00
	7. SAFE SCHOOLS	592,195,000.00
	8. SAFE HOSPITALS	100,000,000.00
	9. ALBAY TRES or Albay section of Bicol River Basin Development Plan	1,499,011,800.00
	10. ALBAY DOS or Donsol River Watershed Plan	427,000,000.00
	11. CRaBS++	1,253,020,000.00
	SUB-TOTAL	50,585,704,202.71
	Non-infra DRR/CCA Receptive PPAs	17,746,782,237.17
	Non-infra/non DRR/CCA receptive PPAs	12,305,513,560.12
٨	GRAND TOTAL	80,638,000,000.00
F		// Justailiable Asia

Leadership Program

Resources for Investment Plan: Albay Sustainable Handbook for Tiwi / Malinao

- Albay Sustainable Handbook is a data-based, science-based and community-based approach to development planning
 - ▶ Limited to towns of Tiwi and Malinao
 - To be replicated to:
 - 1. Oas Graben (3rd District)
 - 2. Guinobatan-Sto. Domingo (lahar zone), and
 - 3. CRAB Islands (Cagraray, Rapu-Rapu, Batan, San Miguel)
- ▶ Source of Fund: CSR of Chevron P5m
 - ► Future commitments- Shell Foundation for Oas Graben



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

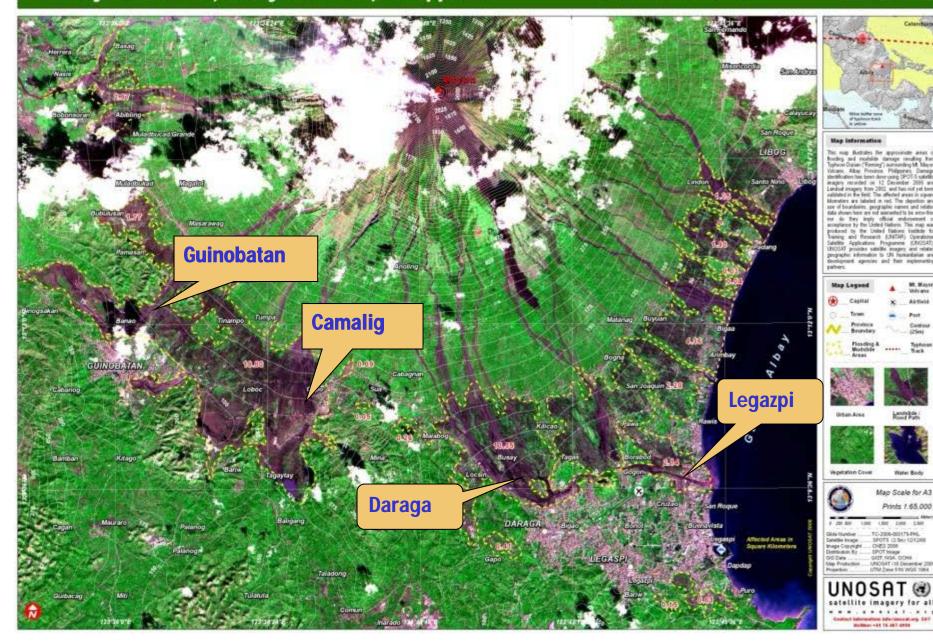


Overview of Flooding & Mudslide Damage Surrounding Mt. Mayon Volcano, Albay Province, Philippines

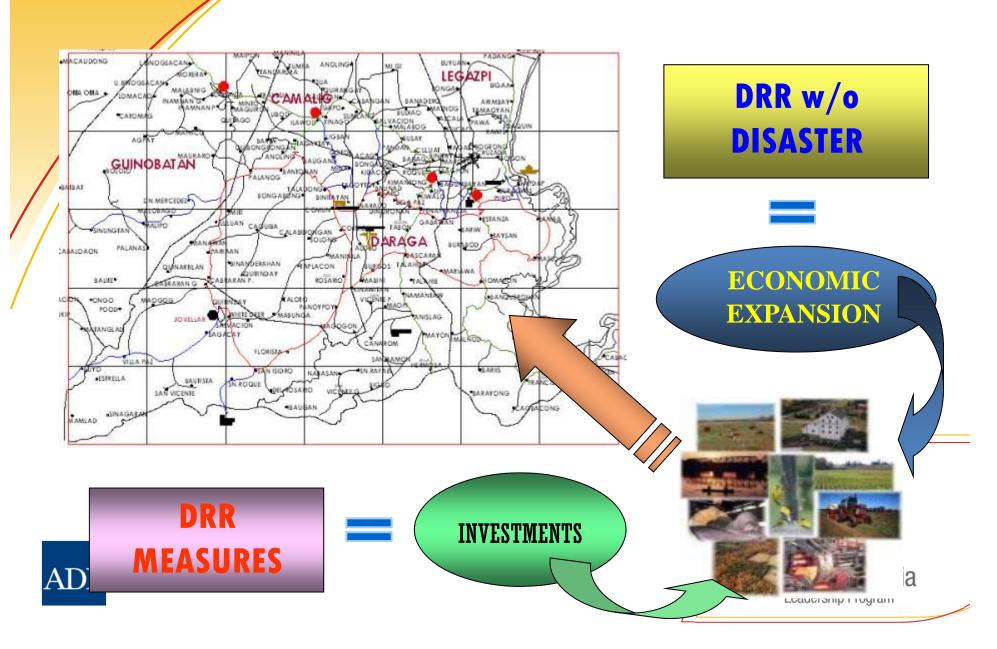
Satellite Identified Damage from Typhoon Durian Using SPOT-5 Imagery Recorded on 12 December 2006 18 December 2006

Version 1.0

Glide No: TC-2008-000175-PHL



GUICADALE ECONOMIC 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 intl airport)
- Lots are already sufficient
- Shelter gap of 5,454
- Funded by NHA, DSWD, INGOs/NGOs
 - Provincial Government provided the sites





Resources for Risk Reduction: Relocation Sites

- ☐ 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)



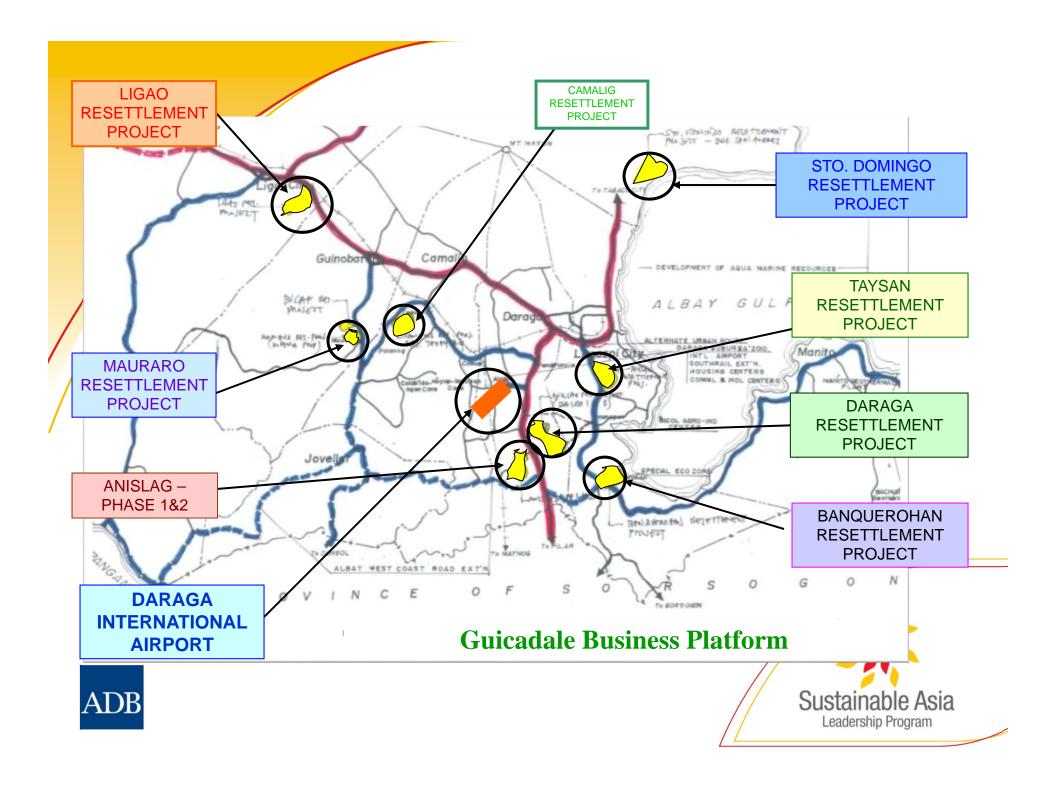












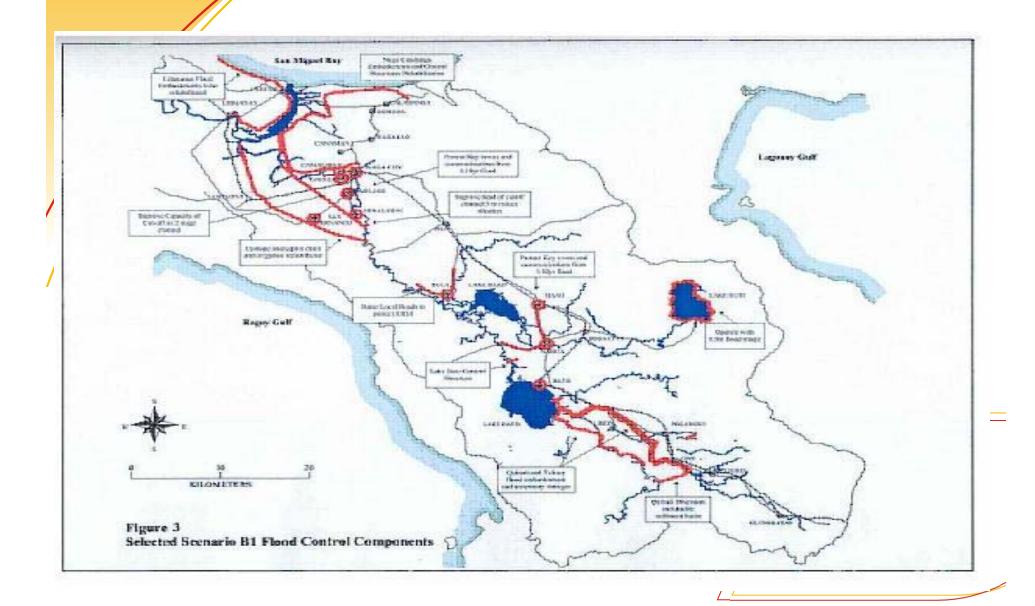
Risk Reduction: Engineering Interventions

- Engineering Interventions
 - Flood Control
 - Phase 1 of Legazpi Flood Control already approved for DPWH funding in 2012 GAA: P575m out of total P2.1bn
 - Bicol River Basin and Watershed Project
 - Flood control for flood plains
 - Watershed protection and reforestation
 - Irrigation rehabilitation
 - Multi-year P3.4bn
 - Source of Funds
 - World Bank country assistance with NG counterpart





Bicol River Basin Flood Control



Engineering Interventions: Biggest Gap











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



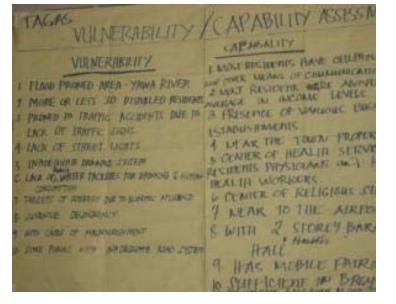


Community Training and Seminar













Community Drills







Training of Emergency Paramedics







Sustainable Asia Leadership Program





Training of Rescue Team











STARTING THEM EARLY



Leadership Program

CHILDREN DRR THROUGH GAMES



ADB

Sustainable Asia Leadership Program

CHILDREN DRR THROUGH MAGIC







Resources for Preparedness

- Close coordination with warning agencies
 - Pagasa is sole authority
 - Establishment of Regional Weather Bureau in Legazpi
 - Upper air balloon to improve detection
 - JICA Reming assistance: Doppler radar in Virac
- Community-based warning system
 - Rainfall monitoring at village level
 - Continuous training
 - Source of Funds: Provincial Government budget
- Warning communications protocol
 - Infoboard
 - Assigned 15,750 SIM cards to village officials
 - Source of Funds: CSR of Smart





Community-Based Early Warning



Warning Agencies

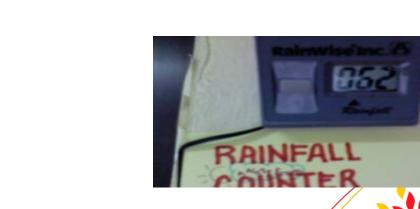


APSEMO



Communities LGUS

Sustainable Asia Leadership Program

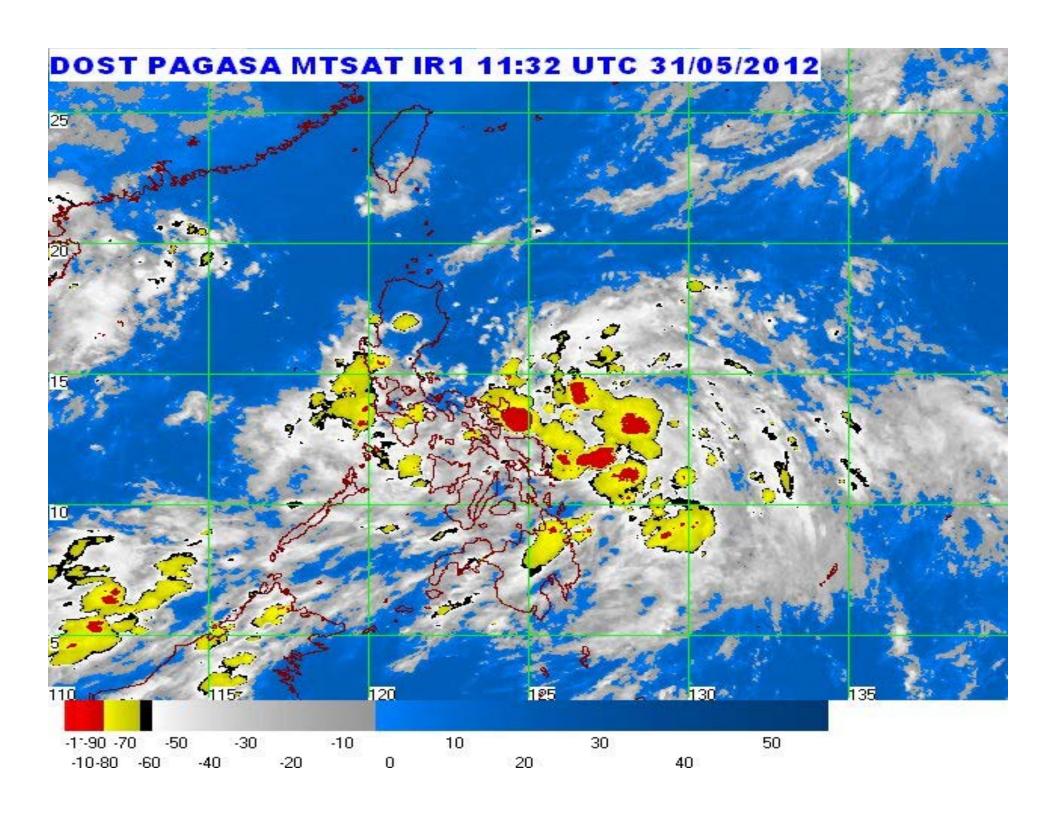


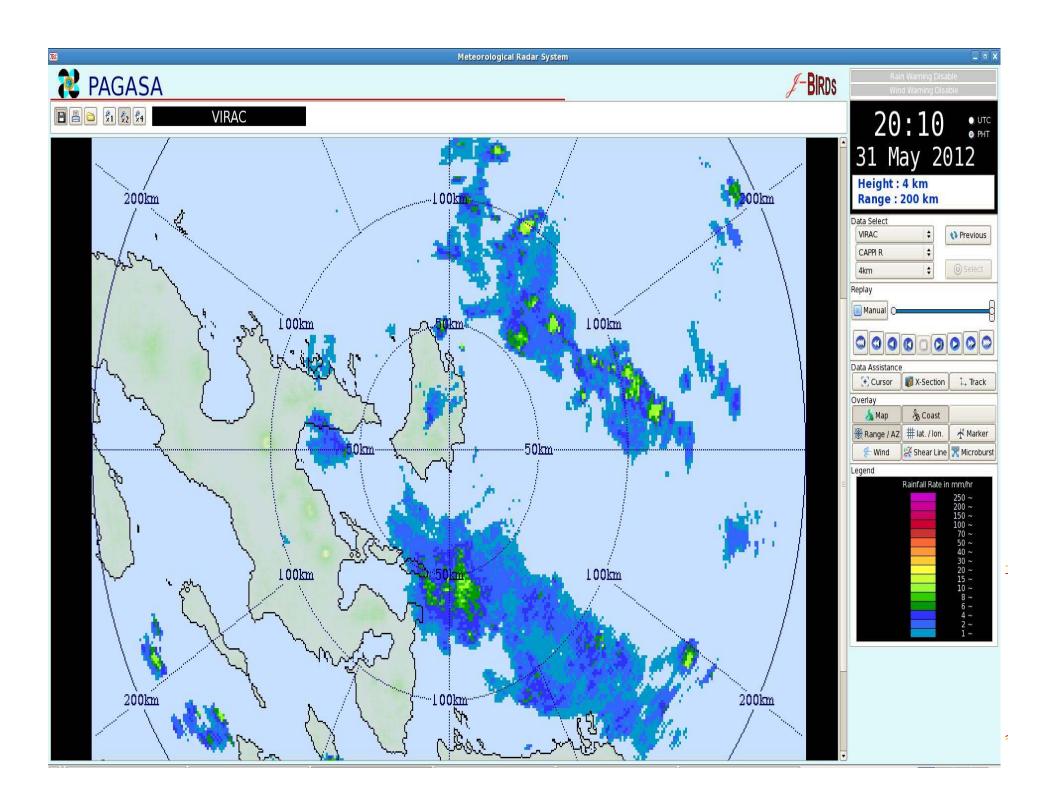






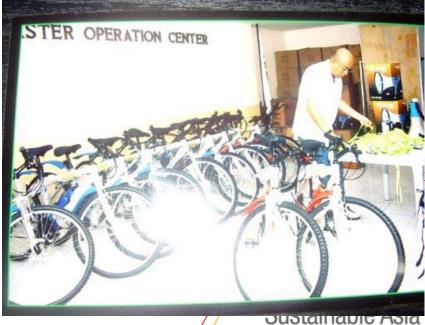
Asia





Community-based Warning Communications







Leadership Program

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







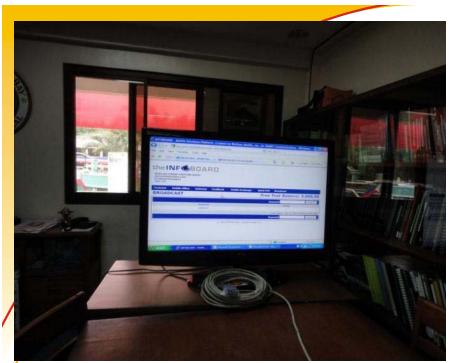


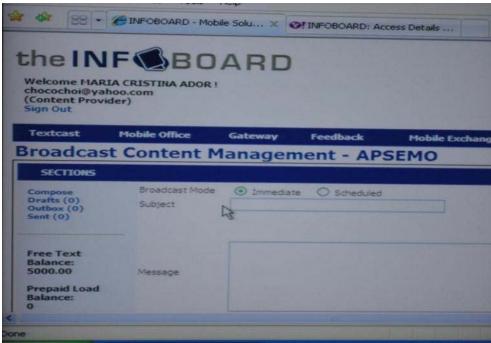


Resources for Warning Communications- INFOBOARD

- 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 theProvince of Albay.
 - Send emergenmcy 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

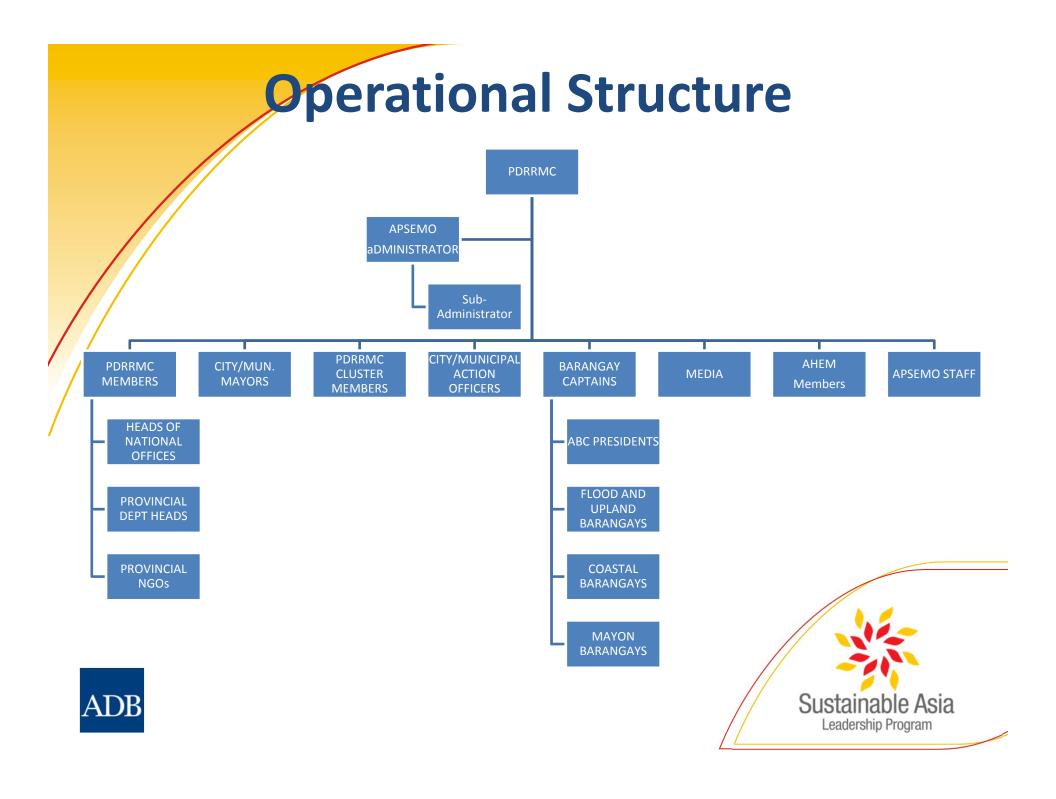












Uses of Infoboard

Sending

- important and emergency communication and information to the concerned recipients like:
 - PAGASA and PHIVOLCS bulletins
 - PDRRMC Advisories
 - Emergency instructions from the governor
 - Public Announcements
 - Other important messages

Receive

- Feedback from the recipients.
- Distress call from the barangay.

Other Uses

- Data gathering and validation
- Updates of weather, flood and landslide situations from the field.
- Dispatch and monitoring of emergency quick response teams (SAR)
- Media relations.
- DRRMC Coordination
- Invitations for emergency conferences





MAINTENANCE AND SUSTAINABILITY

- Minimal budget allocation from PGA through APSEMO.
- Good SMART communication signal in the field
- Use of mobile phone using SMART sim cards or sim cards of other networks
- Phone numbers recognized are those registered by APSEMO to avoid spam messages.
- Use of computer hardwares existing at APSEMO.
- Operations and maintenance of INFOBOARD are through the organic personnel of APSEMO.





Albay Gulf Tsunami Monitoring System PHIVOLCS Intern et **PHIVOLCS** Jayon Volcano RapuRapu **Lignon Hill** Rapu-Rapu Cagraray future future **Mine Port** Rapu-Rapu 50km, wireless Daraga 20min Albay Gur Salmed Legazpi City 30min Tsunami travel 10min 0min 💹 5 km Mayon Transmitter Sorsogon Antenna **APSEMO** Sensor **Wireless** LAN **Tide Gauge**

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

















Executive Order Creating Albay Provincial Committee on Safe Schools



PROVINCE OF ALBAY Logazpi City



Office of the Governor

JOEY SARTE SALCEDA

Governo

EXECUTIVE ORDER No. 2009- 10

CREATION OF THE ALBAY PROVINCIAL COMMITTEE ON SAFE SCHOOLS

WHEREAS. The Province of Albay has continued to recover from the devastation brought about by Super Typhoon Reming in 2006 wherein various government buildings and facilities particularly school buildings, were destroyed causing disruptions in the delivery of basic education services in the affected areas;

WHEREAS, School campuses are vulnerable to risks due to large population mostly children;

WHEREAS, The probable risks in campuses that must be prevented are natural, physical, psycho-social and health hazards;

WHEREAS, Part of the risk reduction plan of the province is to increase the resiliency of all schools in the province through gender sensitive capacity building to ensure not only the continuity of provision of basic education during disasters but as well as the safety of the school children and school management;

WHEREAS, this is in support to the national government initiated programs in compliance to the Hyogo Framework for Action (HFA) in building resilience among nations and communities.

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

Section 1 - The Albay Provincial Committee on Safe Schools is hereby created with the following composition:

Chairman Vice Chairman The Governor

: The Schools Division Superintendent of Albay

: The Department Head of APSEMO

Members : The Schools Division Superintendent of Legazpi City

The Schools Division Superintendent of Tabaco City

The Schools Division Superintendent of Ligao City

The Provincial Engineer

The District Engineer, DPWH District 1

The District Engineer,, DPWH District 2

The Provincial Fire Marshall

The Provincial Health Officer

The Education Quality for Albayanos (EQUAL) Coordinator

The Representative from the organization of Private Schools

in Albay

The Representative from the Provincial Local School Board The Physical Facilities Coordinator from each of the four (4)

DEPED Divisions

Secretariat

ABSEMIO

Section 2 — Functions—The Committee shall function as the task unit of the Provincial Disaster Coordinating Council (PDCC) in terms of school safety especially schools used as evacuation centers during disasters As such it shall have the following functions:

- Evaluate all public and private school facilities in the Province of Albay for its safety, making it gender sensitive and provide recommendations to improve existing facilities and structures.
- Promote gender sensitive school safety programs through the creation of disaster action teams to be composed of school management staff as part of their disaster preparedness plan.
- Conduct regular inspection of all schools in the elementary and secondary levels to ensure compliance of the recommended remedial measures.
- Develop gender sensitive plans, programs and projects that will ensure safety in schools and protect both children, personnel and the community as a whole.
- Optimize options that would spontaneously generate commensurate funds for the rehabilitation of school facilities impacted by disaster and for their upgrading into disaster-resilient status, among others, a universal insurance of all public elementary and secondary school buildings with the GSIS-General Insurance Found
- Perform such other functions in consideration of the above stated concerns or as tasked by the Chairman.

Section 3- Technical Working Group- A technical working group shall be constituted to act as technical and administrative arm of the Committee. It shall be composed of the following:

- 1. Physical Facilities Coordinator from DEPED Division of Albay
- 2. Physical Facilities Coordinator from DEPED Division of Legazpi City
- 3. Physical Facilities Coordinator from DEPED Division of Tabaco City
- 4. Physical Facilities Coordinator from DEPED Division of Ligao City
- 5. Representative from APSEMO
- Representative from EQUAL.

Section 4- Meetings- The Committee shall hold regular meetings the date of which shall be decided by the Committee.

<u>Section 5</u>- Secretariat – To assist the Committee, a Secretariat shall be created to be composed of two (2) staff from the Alboy Public Safety and Emergency Management Office and shall have the following functions:

- Coordinate with the different members of the Committee regarding its activities.
- 2. Prepare minutes and other administrative requirement of the committee.
- 3. Perform other functions assigned by the Committee.

Section 6 - Effectivity - This order takes effect immediately.

Done this 4th day of September 2009 at Legazpi City, Province of Albay.

GOEY SARTE SALCEDA

e Asia

Leadership Program



Physical Capacity-Building: Evacuation Centers up to 320,000 persons

	Permanent Evacuation Centers (Provincial Government)	3 constructed by Provincial Government funded by AECID 3 being procured funded by AECID 5 are planned, funded by JICA Total Capacity: 10,200
	School Camps (National Government)	5,128 classrooms of the Dept of Education identified as safe evacuation centers Total Capacity: 320,000





Permanent Evacuation Centers

6 Emergency Evacuation Center from AECID:

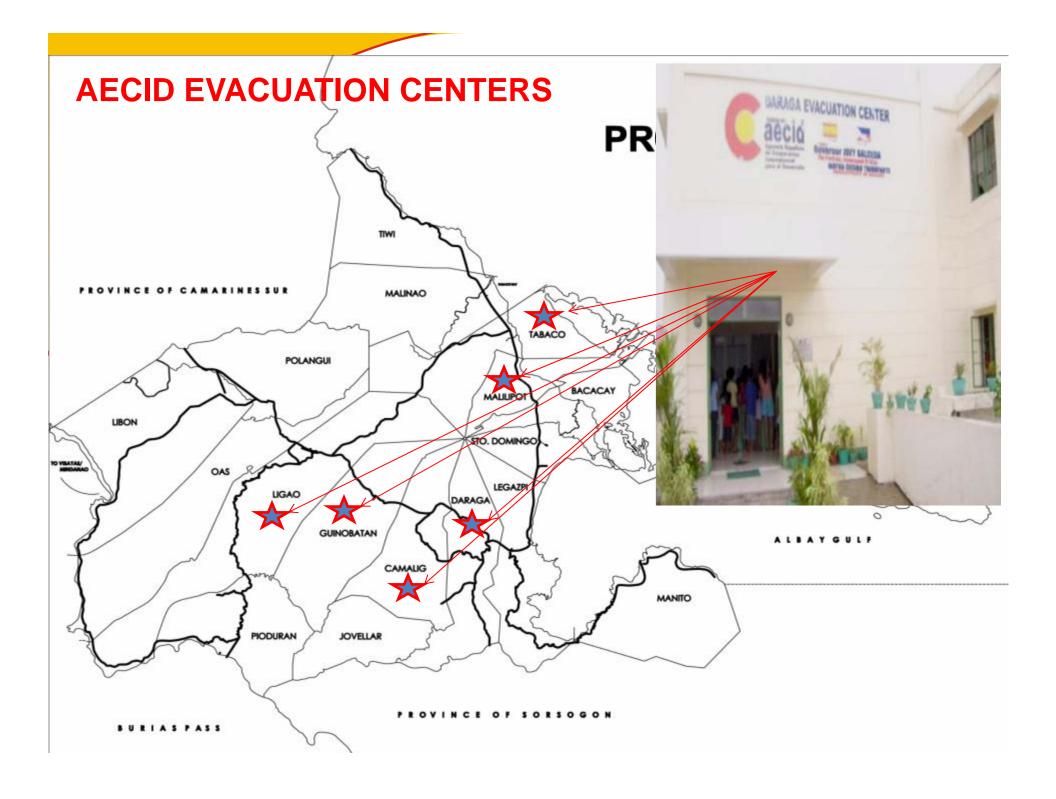
- Daraga Completed as of December
 2008
- Guinobatan 95% Completed
- Camalig 95% Completed
- Malilipot- For Construction
- Tabaco City- For Construction
- Ligao City- For Construction











Permanent Evacuation Centers



AECID Emergency Evacuation Centers

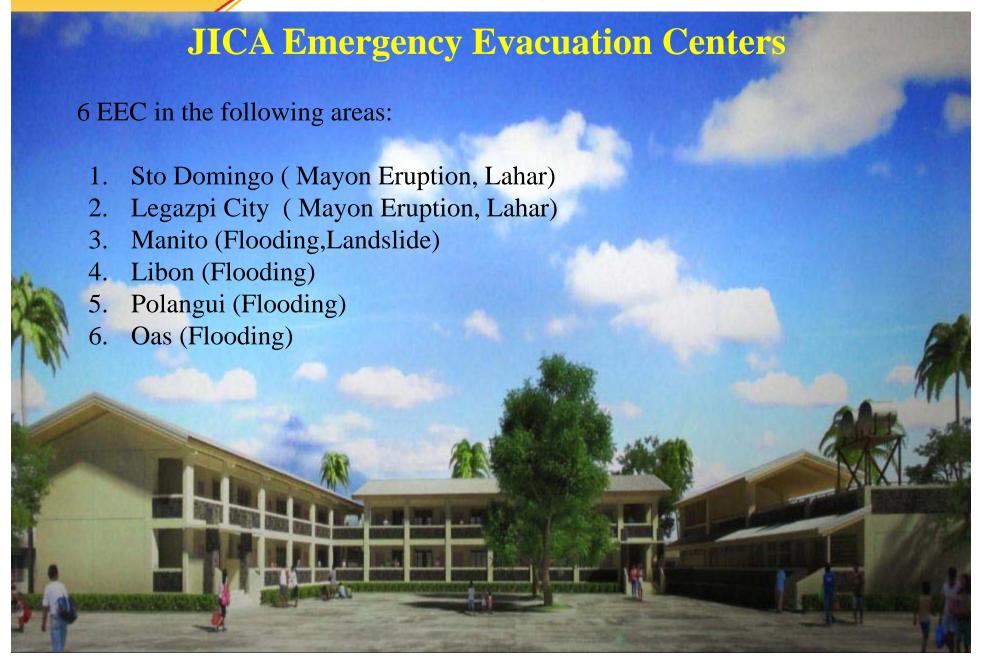
Costing P30M each the EEC consist of:

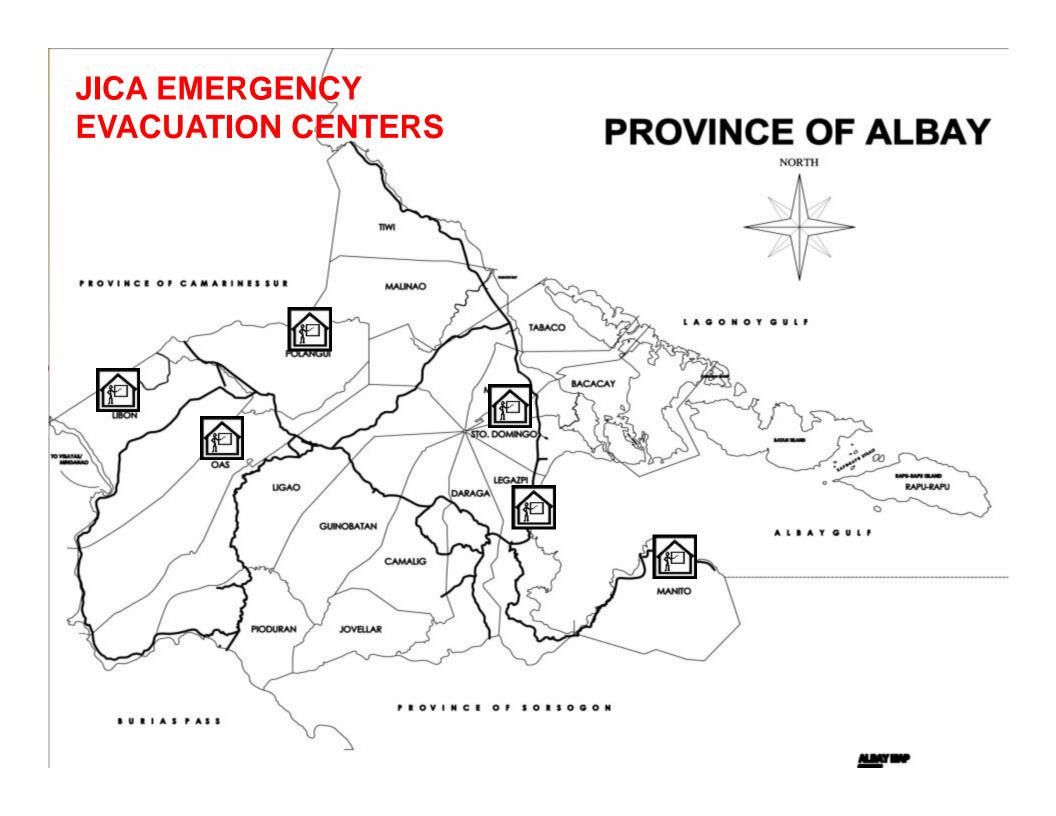
- 10 classrooms (100 Families or 600 Persons)
- 4 office spaces
- 1 community kitchen
- Gender-sensitive WASH: 2 separate bath for 15Male and 15Female
- 2 separate Toilets for 15Male and 15Female (with 1 dedicated for Differently Abled Persons)
- 1 Power House
- 1 Water Pump
- 4 Overhead Water Tanks
- 1 Supply Room for Relief Commodities





Resources for Preemptive Evacuation







Resources for Preemptive Evacuation

JICA EEC Facilities: (Cost P50M each)

- Two Storey Building
- 20 classrooms (200 Families or 1,200 Persons)
- 4 office spaces
- 1 community kitchen
- 2 separate bath for Male and Female
- 2 separate Toilets for Male and Female (with 2 dedicated for Differently Abled Persons)
- 1 Power House
- 1 Water Pump
- 4 Overhead Water Tanks
- 1 Supply Room for Relief Commodities





Those who have less in life, have more in risks

- Disasters kill poor (mostly young) people, make the poor poorer and breed more poor people. Thus, it hurts the innocent and constitutes a moral failure.
 Social justice is the fundamental basis of DRR/CCA.
- It is the primordial duty of the state to save the vulnerable from disasters, climate change
 - The more disasters: the higher the rights of the vulnerable,
 the higher the duties of the state.
 - Zero casualty goal is a desirably ambitious and a socially desirable goal of the nation [Jesuits call it: holy desires]
- No relocation, if homes are built safely. No evacuation, if vulnerable are relocated. No rescue, if evacuated. No rehab, if homes are built safely.

Sustainable Asia

Those who have less in life, have more in risks

- People have the basic right to the capacity to adapt. Relief, recovery and rehab is essentially a compensation [penalty] of the state for failing to reduce exposure and to increase capacity.
- Given zero casualty goal, <u>socio-economic</u> <u>impacts are the state imperatives</u> as they require inter-class, inter-spatial and inter-temporal risk transfers.





THANK YOU





