



## Landscape Analysis of Abatement Cost in the Philippines: The Manupali Case Study

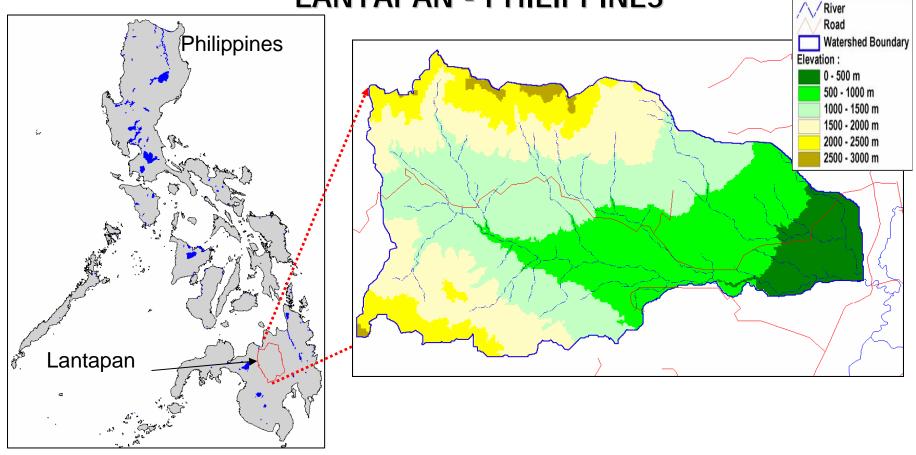


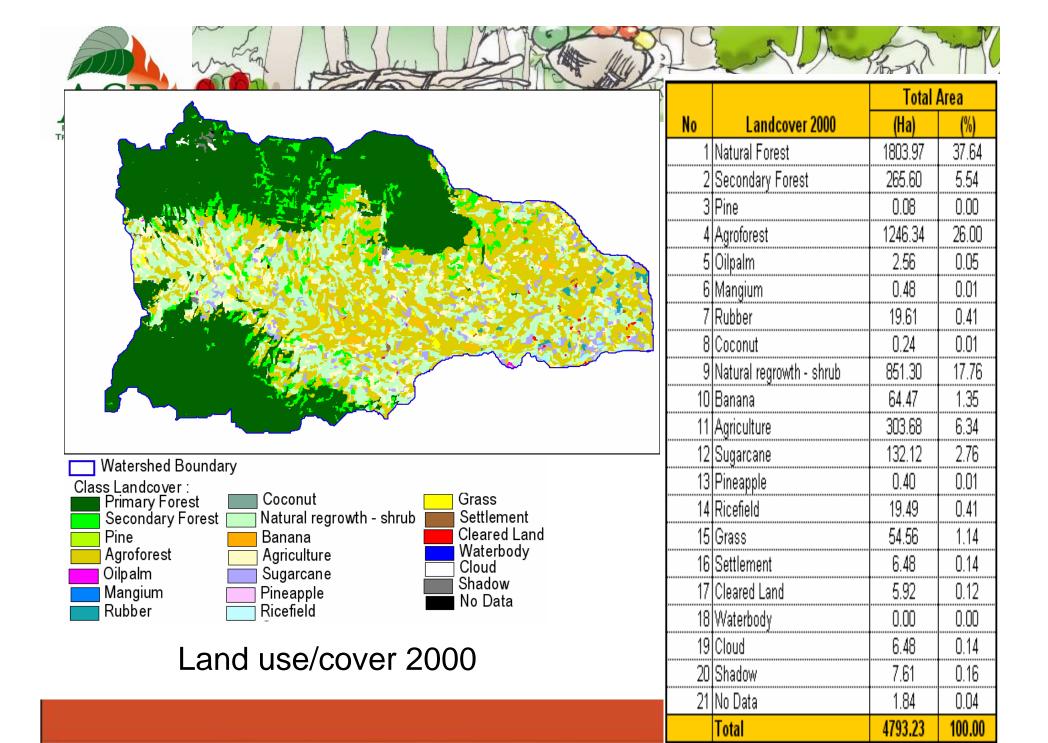
RD Lasco, J Alano, S Dewi, D Nugroho, RJ Delfino, D Catacutan, A Mercado Jr, and FB Pulhin





LANDCOVER DYNAMICS IN MANUPALI WATERSHED,
LANTAPAN - PHILIPPINES









### **Agriculture**













### **Agro-forestry**







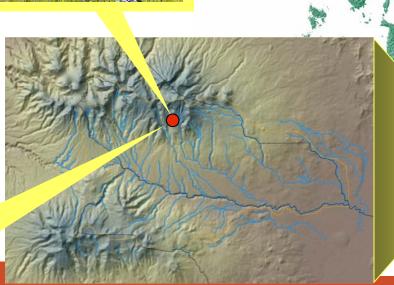




### **Secondary Forest (buffer zone)**











#### Banana

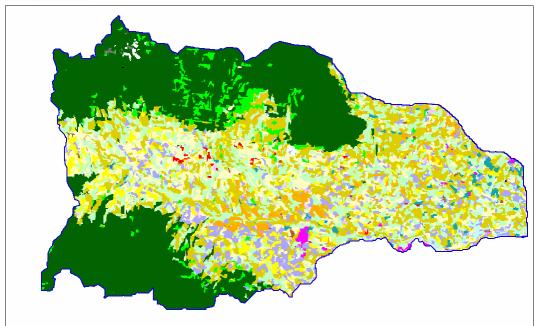












Watershed Bounda	ıry	
Class Landcover : Primary Forest	Coconut	Grass
Secondary Forest	Natural regrowth - shrub	Settlement
Pine	Banana	Cleared Land
Agroforest	Agriculture	Waterbody
Oilpalm	Sugarcane	Cloud
Mangium	Pineapple	No Data
Rubber	Ricefield	INO Data

Land use/cover 2005

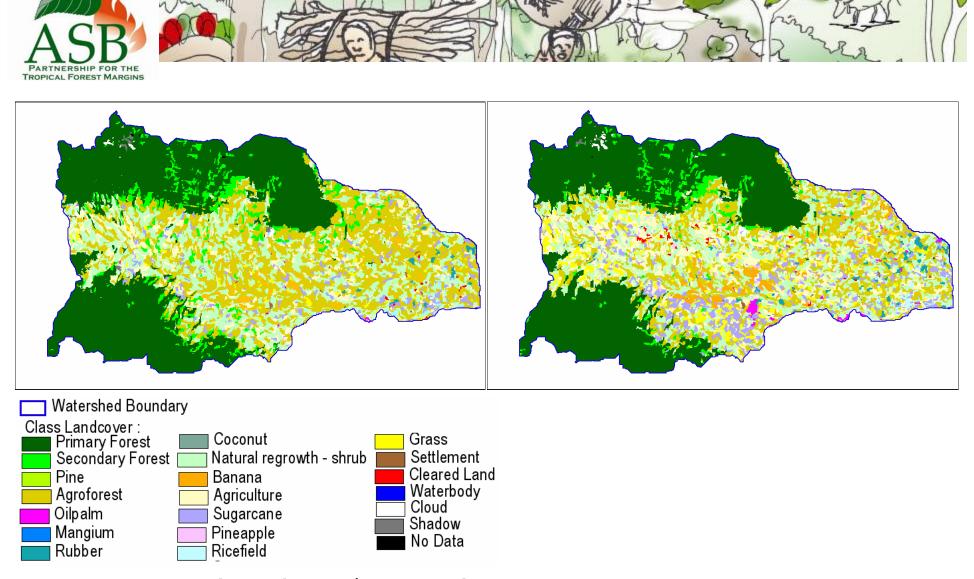
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		Total Area		
No	Landcover 2005	(Ha)	(%)	
1	Natural Forest	1695.47	35.37	
2	Secondary Forest	159.61	3.33	
	Pine	0.56	0.01	
4	Agroforest	839.52	17.51	
5	Oilpalm	19.53	0.41	
6	Mangium	2.80	0.06	
7	Rubber	45.79	0.96	
8	Coconut	0.64	0.01	
9	Natural regrowth - shrub	816.15	17.03	
10	Banana	104.52	2.18	
11	Agriculture	511.10	10.66	
12	Sugarcane	286.81	5.98	
13	Pineapple	23.12	0.48	
14	Ricefield	44.05	0.92	
15	Grass	211.55	4.41	
16	Settlement	8.16	0.17	
17	Cleared Land	10.64	0.22	
18	Waterbody	0.16	0.00	
19	Cloud	10.01	0.21	
20	Shadow	2.88	0.06	
21	No Data	0.16	0.00	
	Total	4793.23	100.00	



# Drivers of Land Use Change

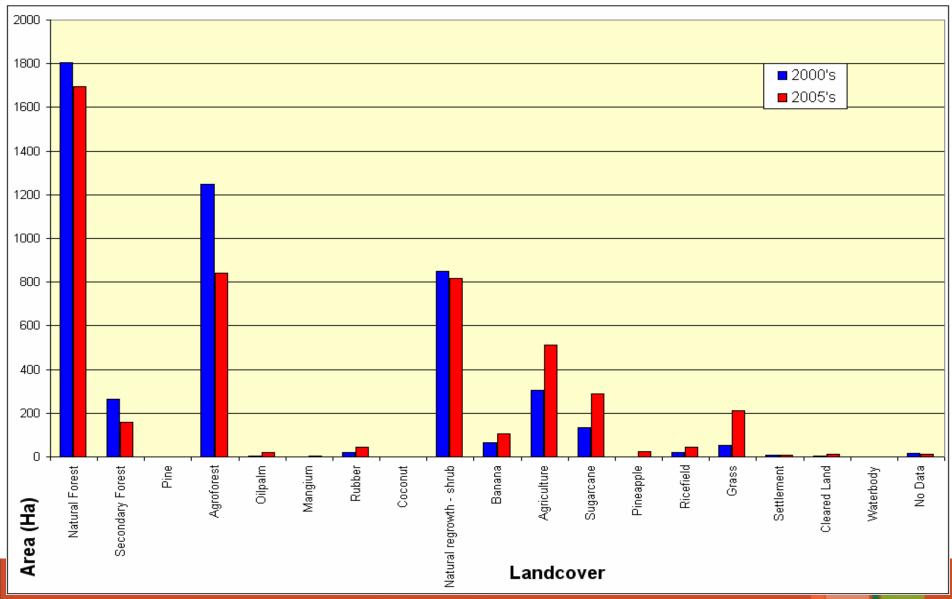


- Forest→ corn
- Vegetable farming
  - Corporate banana plantations
- Presence of two sugar mills
- Agribusiness

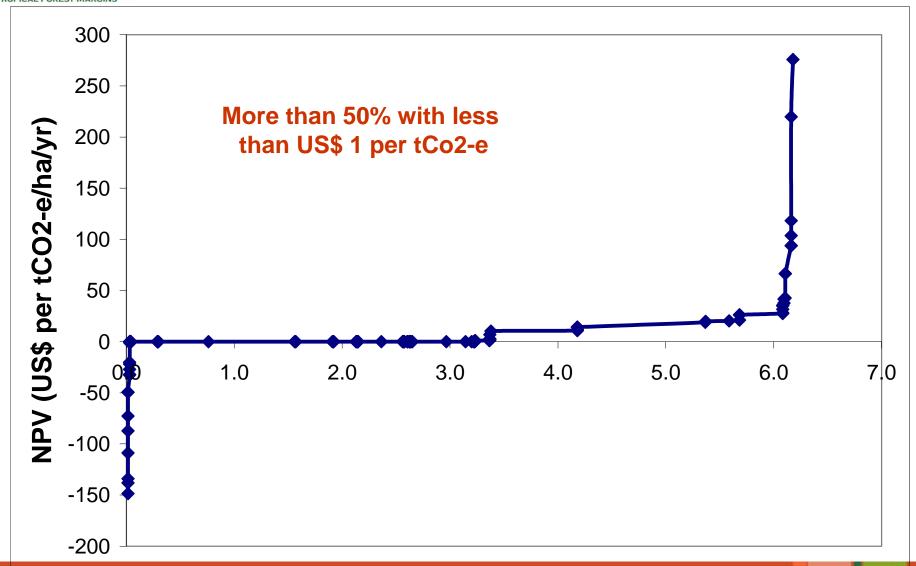


Land use/cover changes 2000 - 2005





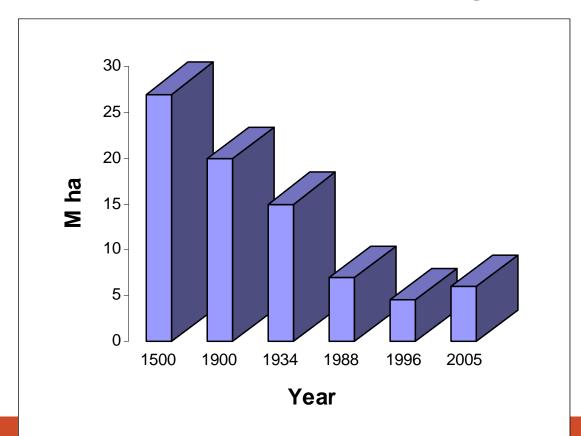






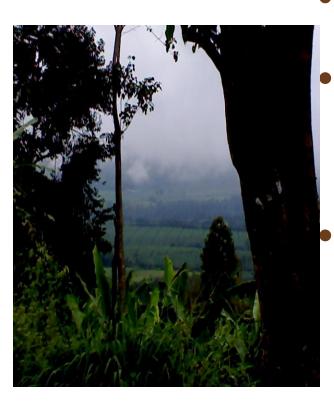
# The Philippines and REDD

Rate of deforestation is declining





# The Philippines and REDD



- Forest degradation is more significant source of carbon?
- All primary forests are protected by law
  - Protection from illegal cutting
  - Biodiversity conservation
- Logging is allowed in secondary forests
  - Reduced impact logging
  - Community based forest mgt
  - Landcare groups





# Thank you!

