

Presented by: Juan Pablo Castaneda

Date: October 15, 2015





WAVES Global engagement

- 1. Policy Applications of NCA and Methodology Development of Ecosystem Accounting
- 2. Engagement with private sector initiatives
- 3. Communications

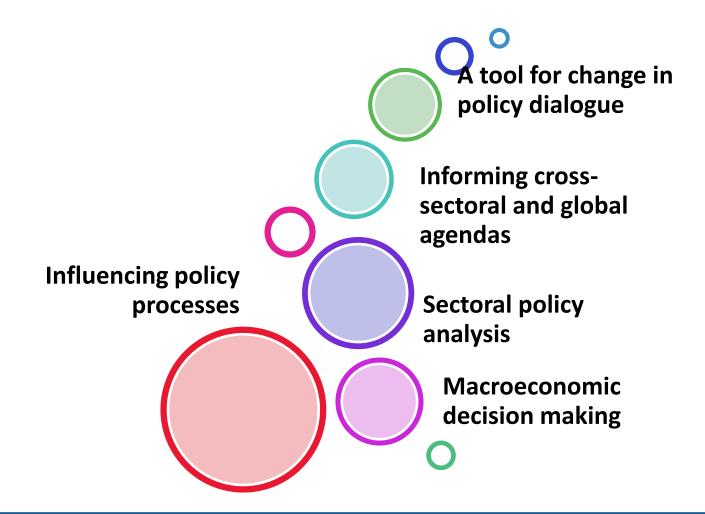
NCA in action



Natural Capital Accounting in Action



Five ways of looking at uses of NCA



NCA influencing policy processes

The policy cycle and forests

•Is the policy contributing to sustainability?

•What is the impact of non-forest

policies?

Evaluation
Problem definition

Analysis and design

•How to better allocate financial resources?

•What is the distribution of benefits?

•What is the real contribution of forests to the economy?

•What are the linkages between forest and other sectors?

Is economic growth causing degradation of the resource and could limit future growth?

.What are the tradeoffs?

.Who are the stakeholders?

.What are the priorities?

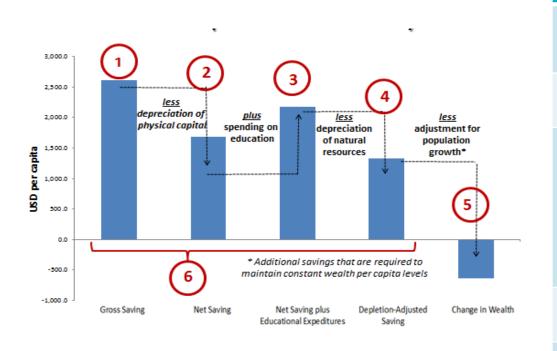
•Local aspects to be considered?

Guatemala forest policy



NCA and macroeconomic decision making

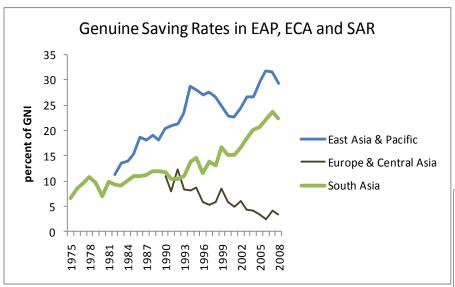
Improving sustainability in terms of total wealth

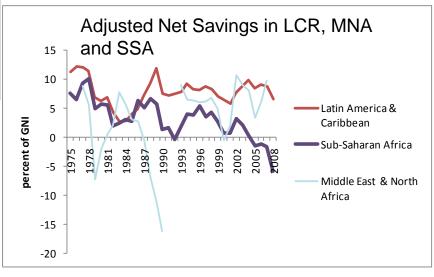


1. Increase the level of savings

- 2. Improve the quality of physical/built capital (with longer economic lives)
- 3. Increase spending on education and innovation
- 4a. Invest in the quantity of natural capital (some new resources, such as in mining and fossil fuels, can be discovered and the stock expanded)
- 4b. Invest in the quality of natural resources (such as land)
- 5. Higher population growth rates dilute a country's total wealth.
- 6. Increase total factor productivity

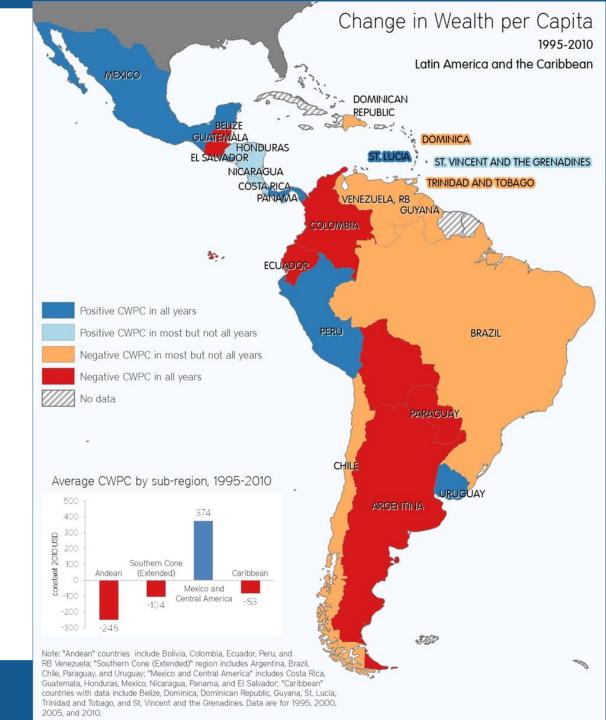
Is wealth growing or declining?





WAVES © 2015

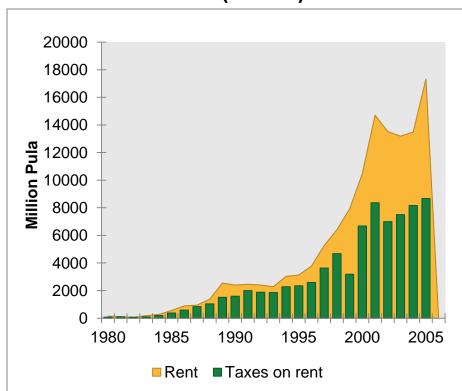
Wealth per capita in LAC



NCA and sectoral policy analysis

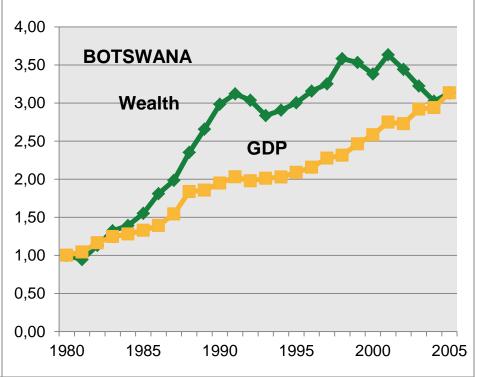
Mineral accounts - Botswana

1. Botswana government recovers mineral revenues ("rent")



2. The investment of mineral revenues builds wealth and income

(index of real, percapita growth in wealth, GDP)



Vietnam: The value of forests

Account 1: Economic value of forest services

Unit: billion dong

		2010		2011		2012	
	Indicators	2010 constant price	current price	2010 constant price	current price	2010 constant price	current price
Provisioning	1. Tangible values - Forest products	14,948	14,948	16,161	18,844	17,602	22,611
	1.1 Timber	6,549	6,549	7,601	8,614	8,507	10,549
	1.2 Firewood	3,704	3,704	2,921	3,289	3,880	4,810
	1.3 Bamboo and other similar things	2,478	2,478	2,483	2,796	3,469	4,603
	1.4 Food	248	248	205	239	299	396
	1.5 Other NTFP	1,969	1,969	2,951	3,906	1,447	2,253
	2. Tangible values - Forest environmental services	8,328	8,328	8,284	9,395	8,729	10,547
	2.1 Tourism/recreation	36	36	44	46	48	60
at	2.2 Watershed protection	81	81	254	282	949	1,172
Regulat	2.3 Coastal protection (a)	2,197	2,197	1,963	2,183	1,672	2,065
	2.4 Carbon sequestration	6,014	6,014	6,023	6,884	6,060	7,250
Cultural	3. Intangible values						
	3.1 Landscape values (a)						
	3.2 Forest biodiversity protection (a)						
	3.3 Cultural values (a)						
	Total economic value	23,276	23,276	24,445	28,239	26,331	33,158

⁽a) While it is possible to assign values to these items, estimates are not yet available.

DATA SOURCE: GSO, MARD, VAFS



WAVES © 2015 24February2015

Thailand: Making informed decisions

MARKET value of mangrove: under current use

\$864 per ha (timber and non-timber)

Additional NON-MARKET value:

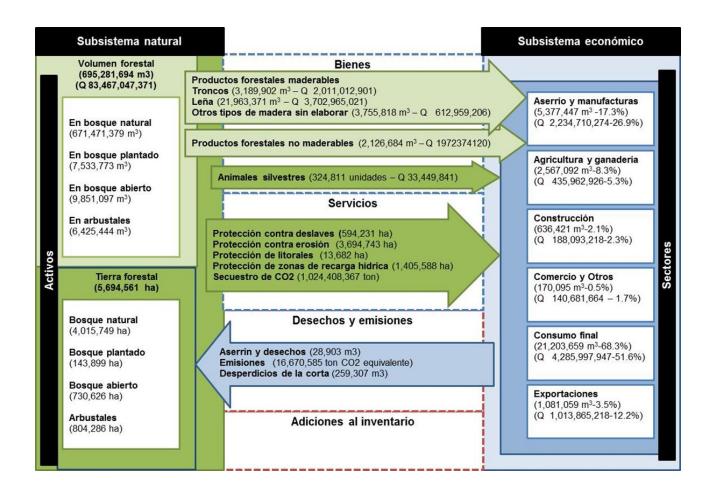
\$16,861 per ha--Coastal protection from storms

MARKET value of mangrove: if converted to shrimp farm

\$9,632 per ha (shrimp)



Guatemala: The forest economy





NCA and cross-sectoral / global agendas

Bangladesh: Climate change impacts on food security

Results:

- National-level impacts were small reducing GDP by 0.11% or US\$81.2M in 2030.
- Caloric consumption was 17% less; some households remained food insecure.
- Factor reallocation to manufacturing.
- Greater dependence on agricultural imports.

Difference in AAGR (%) from baseline

	Sealevel	Paddy	Wheat	Joint							
Indicator	rise	yield	yield	impact							
Private consumption	-0.0036	-0.0130	0.0001	-0.0165							
Fixed investment	0.0057	0.0071	0.0001	0.0129							
Exports	0.0125	0.0168	-0.0001	0.0293							
Imports	0.0120	0.0162	-0.0001	0.0282							
GDP	0.0001	-0.0049	0.0001	-0.0047							

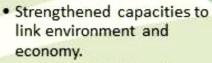
NCA as a tool for change in policy dialogue

NCA as a tool for change

Products

- Conceptual/methodology frameworks and findings of SEEA.
- · Technical/scientific publications.
- · Databases.
- Courses and events under different modes.
- Specialized advisory.
- Tools for incidence and politic actions.
- Proposals of policies and tools (economic, regulations).
- · Institutional strengthening.

Results



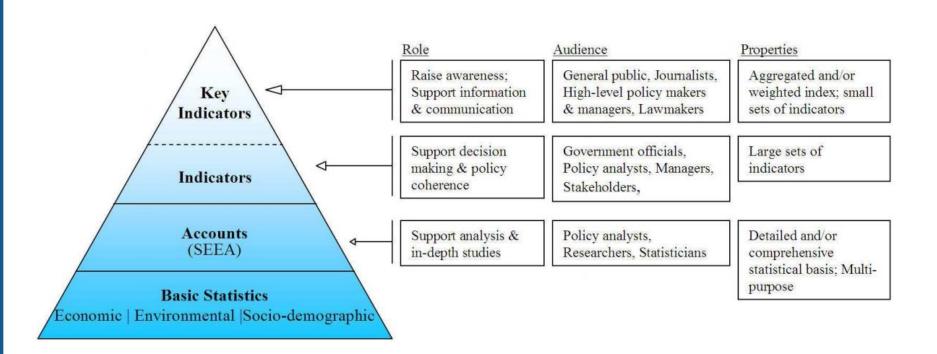
- · New or strengthened structures in institutions.
- Improved performance from knowledge use.
- Induced alliances and intersector coordination.

Impacts

- · Formulation/modification of policies, plans, programs and projects by stakeholders.
- · Design and negotiation of budgets.
- · Strengthened institutions.
- Strengthening of social auditing from new knowledge.
- Environmental social awareness (via media monitoring approach).



From basic statistics to accounts to indicators



Thank you!



