

Costa Rica

Forest Accounting for Policy Decision Making

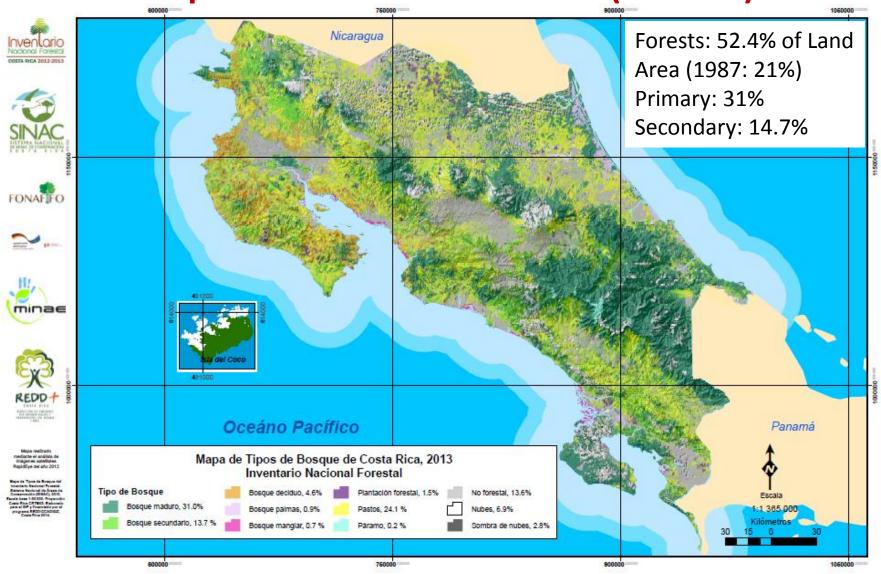
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Why a Forest Account?

- Relevant issues in the country:
 - First country to stop and revert deforestation
 - Significant investments in two decades: US\$300 million for Payments for Environmental Services (PES)
 - No comprehensive accounting of natural wealth
 - Pressures: agriculture, urbanization, land degradation
- Role of Forests for Development:
 - PES and climate change mitigation
 - Tourism (4% of GDP)
 - Relevance of Hydro-Power (80% of national electricity supply)
 - Impact in the rural economy (income, poverty, employment)

Map of Forest Cover (2013)



Source: Sistema Nacional de Áreas de Conservación (SINAC), MINAET (2012)

Policy Questions

- Return on natural capital investments:
 - Forests conservation and national wealth: contribution to GDP, employment, poverty
 - Impact on key industries: Hydropower, Sustainable Tourism, Agriculture (multiplier effect)
- Fiscal policy for environmental externalities (fossil fuels tax for PES financing)
- Land use changes and resource management:
 - Water resources protection: watersheds, reservoirs, etc.
 - Environmental services: biodiversity and its economic value
 - Public vs. Private investments (value and opportunity cost)

Contribution of a Forest Account for Policy Implementation

 Payments for Environmental Services (PES) and the National Climate Change Strategy (ENCC)

REDD+ Strategy

 National Plan for Forest Development (PNDF) 2011-2020

Forest Carbon Dynamics

Carbon Value: 1 - 1.2% of GDP; Forestry Industry: 0.4% of GDP

Forests (% of Total Land Area)	2005 48%	2010 50%	2015 56%	2020 59%	2025 62%	2030 64%
Stock 000 Tons CO2	752,245	783,761	869,381	929,262	977,212	1,015,684
Five-Year Flows 000 Tons CO2	51,558	31,516	85,620	59,881	47,950	38,472
Current Value @US\$5/TonCo2 000 US\$	257,790	157,580	428,100	299,405	239,750	192,360
Present Value @US\$5/TonCo2 and 5% Discount Rate 000 US\$	n.a.	627,014	457,327	n.a.	n.a.	n.a.

Source: Own estimation with data from Pratt, Rivera and Sancho (2010), and BCCR

Challenges

- Consolidation of technical working group:
 - Capacity building
 - Integration of information and data sources
 - Staff from relevant stakeholders
 - Skills and statistical capacity development
- Better dimensioning of Forest Accounting for policy decisions:
 - Institutionalization (long term commitment)
 - Interagency work and policy coherence
 - Cross-sectional approach for economic valuation: water resources, biodiversity, agriculture, industry, etc.

Next Steps

- Meetings with new Government authorities:
 - Information
 - Discussion
 - Institutional Support
- Coordination with key stakeholders:
 - SINAC: National Forestry Inventory (Assets account);
 Biodiversity Strategy (Ecosystem Services); Forest
 Information System (Industry)
 - FONAFIFO: Carbon Balance (Stocks and Flows account);
 Economic Valuation (Environmental Services)
 - OTHERS: Water and Electricity Utilities; NGOs, Universities



Thank You