

Global Workshop on Forest Accounting

Forest accounts implementation

Washington DC May 11-13 2014

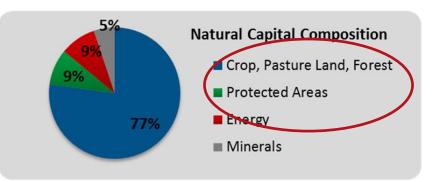


Forests are an important component of wealth

- The source of income and wellbeing is wealth, broadly defined to include: manufactured, natural and intangible capital.
- Change in GDP tells us if growth is occurring, changes in wealth tell us if growth is sustainable
- **Economic development** is a process of **building wealth** and managing this portfolio of assets

Wealth of Low Income Countries

2008 US\$	Per Capita
Total Wealth	7,670
Produced Capital	1,117
Natural Capital	2,403
Intangible Capital	4,290
Net Foreign Assets	-141





Beyond GDP: Forests in the national accounts

Key information about forest assets is missing or invisible in the System of National Accounts (SNA)

STOCKS

Depletion of natural forests is not captured

FLOWS

- Many non-market services are attributed to other sectors (tourism)
- ... or some are not represented (carbon storage)



What are the general uses of forest accounting?



Better indicators for **monitoring sustainable development:** Wealth and Adjusted Net Savings



Better tools for managing natural capital to promote growth and poverty reduction

- Weighing tradeoffs of land use
- Prioritizing investments in forest resources management, protected areas



What is the policy relevance?

.What is the real contribution of forests to the economy? .What are the linkages between forest and other sectors? .ls economic growth causing degradation of the resource and could limit future growth? **Problem** .What are the tradeoffs? definition .Who are the stakeholders? .What are the priorities? .Local aspects to be considered? Policy The Policy analysis and policy assessment formulation cycle .Is the policy contributing to sustainability? .What is the impact of non-forest Policy policies? implement. .How to better allocate financial

resources?

.What is the distribution of benefits?



How to do forest accounts?



The revised SEEA consists of three parts: the Central Framework, which was adopted by the UN Statistical Commission as the first international standard for environmental-economic accounting; Experimental Ecosystem Accounting and Applications and Extensions of the SEEA. Subsystems of the SEEA framework elaborate on specific resources or sectors, including: Energy, Water, Fisheries, Land and Ecosystems, and Agriculture. These 'subsystems' are fully consistent with the over-arching SEEA, but provide further details on specific topics and try to build bridges between the accounting community and the community of experts in each specific subject area.

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n on the revision of SEEA

Meetings

Technical Cooperation

Workshops

Global Assessment

UNCEEA

UNCEEA Meetings UNSC Reports

London Group

Library

Keyword Search Country Search with the SNA in order to facilitate the integration of environmental and economic statistics.

The SEEA is a system for organizing statistical data for the derivation of coherent indicators and descriptive statistics to monitor the interactions between the economy and the environment and the state of the environment to better inform decision-making. The SEEA does not propose any single headline indicator. Rather it is a multi-purpose system that generates a wide range of statistics and indicators with many different potential analytical applications. It is a flexible system in that its implementation can be adapted to countries' priorities and policy needs while at the same time providing a common framework and common concepts, terms and definitions. The SEEA brochure provides additional information on what environmental accounting has to offer.

A multi-year process of revision to the System of Environmental-Economic Accounting was initiated by the United Nations Statistical Commission. The revised SEEA consists of three parts: the Central Framework, which was adopted by the UN Statistical Commission as the first international standard for environmental-economic accounting; Experimental Ecosystem Accounting and Applications and



Energy

Information on Energy statistics and accounts



Nater

Information on Water statistics and



Land and Ecosystems

Information on land and ecosystems

Who does forest accounting?

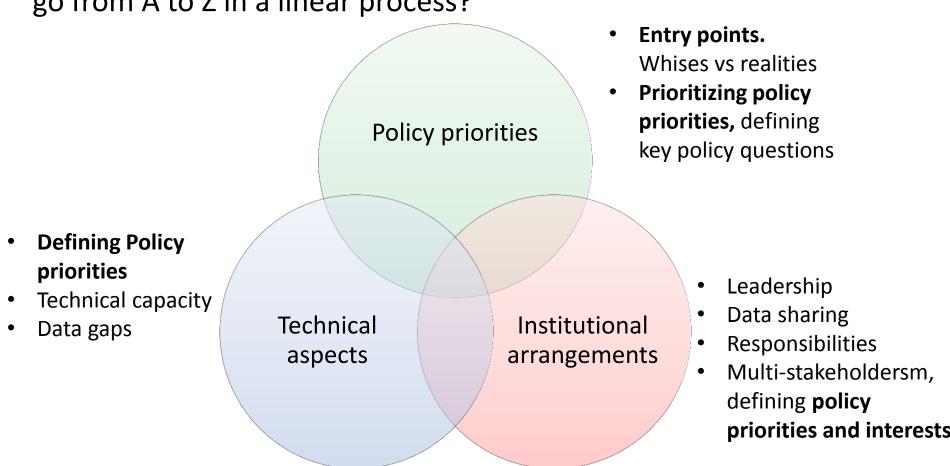
Countries	Most common `Flow' accounts	Most common `stock' accounts
27 EU countries, Australia, Canada, New Zealand, Norway	EnergyWaterAir and water pollution	Minerals & energy resources,Forest timber
Colombia, Korea, Mexico, South Africa	EnergyWaterPollution	Minerals and energyForest timber

Countries initiating environmental accounting, or renewing earlier pilot programs: Botswana, Brazil, Costa Rica, Guatemala, Kenya, Madagascar, Mauritius, the Philippines, Qatar, Vietnam



How to implement forest accounts?

The "art" of accounting... Is it possible? Could we have a "recipe" to go from A to Z in a linear process?





What to expect from WAVES?

- Support to implementation programs
- Training material and guidelines
- Workshops
- Community of practice
- PTEC Work on methodologies for forest ecosystem services.



Forest Accounting for Development

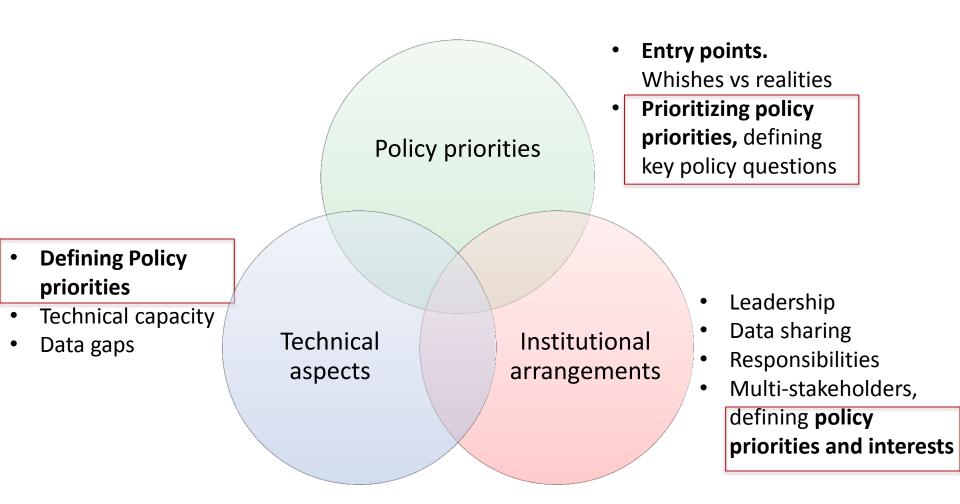
Capturing the Value of Forests Using Natural Capital Accounting

Day 2 – Establish indicators



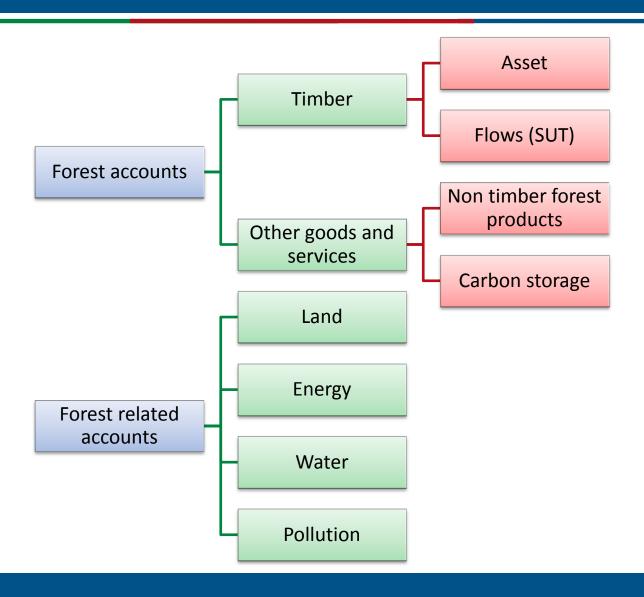


The "art" of forest accounting...





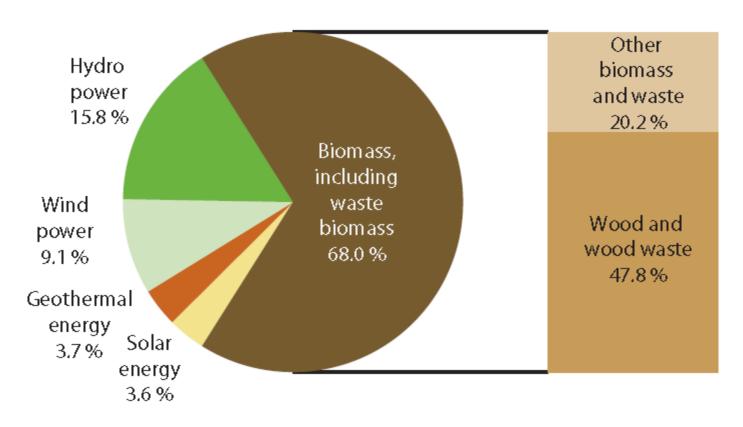
Forest and forest related accounts





An example of the links

Consumption of renewable energy, EU-28, 2011



Source: Eurostat (online data codes: nrg_1071a and nrg_1072a)



Questions to indicators/measures

- What is the total economic contribution of forests and what are the benefits from sustainable management?
 - Total value of forests including non-market forest goods and services
 - Measure of the value of forests' contribution to GDP
 - Value of forest services to non-forestry sectors
 - Measure of the economic importance of forest services to agriculture, electricity, fisheries, water supply, etc.
 - Value of forest goods and services used by local communities
 - Measure of dependence of forests and opportunities for management



Value to other non forest sectors

Production of forest goods and services in Swaziland by ecological zone, 1999 (million emlangeni)

	Cultivated	Natural forests and woodlands				Total	
	forests (mainly highveld)	High- veld	Middle- veld	Low- veld	Lubom bo	Sub- total	
1. Commercial timber	40.7						40.7
2. Forest products for own-use, mainly non-market Timber Edible plants Medicines Thatch, weaving grass Livestock grazing Sub-total		56.9 0.4 0.1 3.1 1.5 62.0	44.3 0.2 0.4 3.0 1.6 49.6	38.1 0.5 0.1 2.7 1.1 42.6	15.7 0.1 0.0 0.1 0.3 16.2	155.0 1.2 0.7 9.0 4.6 170.4	155.0 1.2 0.7 9.0 4.6 170.4
3. International tourism						0.1	0.1
4. Carbon storage	91.3	Carbon values for natural forests and woodlands not distributed by ecological region 7.9				99.2	
Total							310.4
GDP, 1999 Forest values omitted from GDP	use (except liv	estock*					8,410.0
Forest products for own use (except livestock)* Carbon storage Sub-total						165.8 99.2 264.0	

^{*}Assumes virtually the entire production value of non-market forest goods is value-added (labour cost), so the production value and contribution to GDP are the same. (See discussion in Chapter 2).

Note: The currency of Swaziland, the emlangeni, is equivalent to the South African rand and was worth 0.154 euros in 1999. Source: Adapted from Hassan, Mbuli and Dlamini, 2002, p.40, Table 11, and author's calculations.



Value of forest goods and services in Sweden (Million Euros)

	1993	1995	1999
Timber harvest	2080	2540	2370
Non-timber goods	273	233	225
Forest services			
Recreation*	2370	2370	2370
Protection from noise	20	20	20
Carbon storage	1050	630	810
Subtotal	3440	3020	3200
Total output of forests	5793	5793	5795

Based on FAO, 2004



Forest Accounting for Development

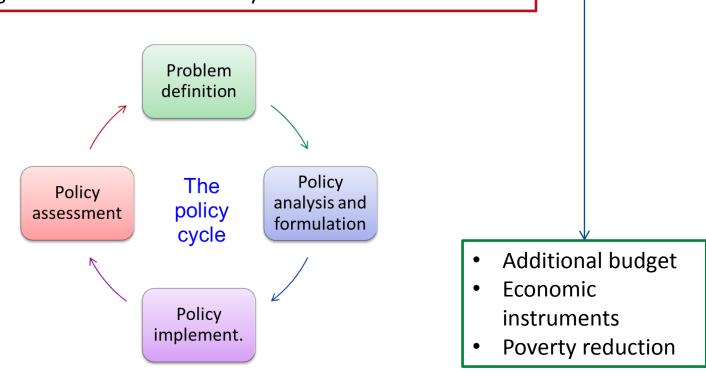
Capturing the Value of Forests Using Natural Capital Accounting

Day 2 – Policies (Making the links)





- Total value of forests including non-market forest goods and services
- Value of forest services to non-forestry sectors
- Value of forest goods and services used by local communities





- Measure of the value of forests' contribution to GDP
 - Showing a higher value for forest contribution to GDP may increase the forestry sector's ability to request a larger share of national budget for forest management and investment.



- Economic importance to other sectors
 - Design of economic instruments to promote sustainable forest use:
 - Hydroelectricity tariffs
 - Tourism fees
 - Negotiate international finance
 - Build multi-sectoral alliances on the basis of mutual benefits
 - Identify institutional weaknesses, who benefits but is not paying



- Share of forest goods in rural livelihoods provides measure of dependence on forests of local communities.
 - Useful for design and implementation of Poverty reduction strategies.



Linking accounts and indicators to policy: Background

Using the set of indicators you developed in Exercise 2

- Chose the best indicators to support the policy ensuring they are relevant for your decision makers
- Explain how your indicators will help inform the policy decisions you have selected.
- What is your story?
- What do you think the policy responses are likely to be?



