

Natural Capital Accounting based on the example of "fast-track" forest accounts in the Kyrgyz Republic

International Conference on Natural Capital for the Transition to a Green Economy National Statistical Committee of the Kyrgyz Republic

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Global political framework

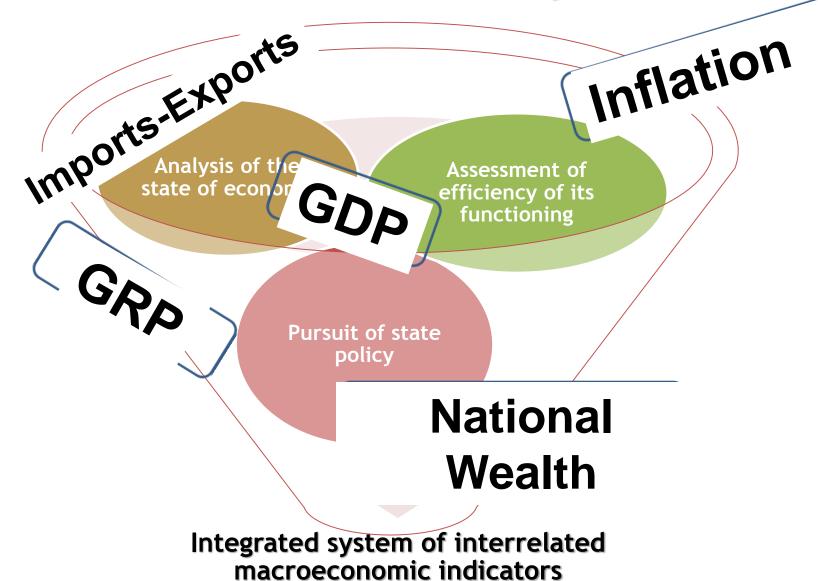
- ✓ Sustainable Development Goals
- ✓ UN DESA, UNEP, UNDP, OECD Green Growth/ Green Economy initiatives
- ✓ Beyond GDP
- ✓ World Bank Natural Capital Accounting / Wealth
 Accounting and Valuation of Ecosystem Services (WAVES)
- ✓ CBD Aichi Strategic Plan Goals 2011-2020 (e.g., Goal 2: By 2020, at the latest, biodiversity values have been integrated into national and local development and poverty reduction strategies and planning processes and are being incorporated into national accounting, as appropriate, and reporting systems.)

National political framework

- ✓ National Sustainable Development Strategy of the Kyrgyz Republic 2013-2017
- ✓ Program for Transition to Sustainable Development 2013-2017 (as approved by the Kyrgyz Parliament)
- ✓ Matrix of Indicators of Transition to Sustainable

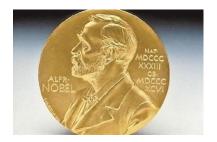
 Development (as approved by the Kyrgyz Government and based on the OECD Green Growth methodology)
- ✓ Biodiversity Conservation Strategy and Plan of Activities (as approved by a Resolution of the Kyrgyz Government)
- ✓ State Statistics System Improvement and Development Program till 2019 (as approved by a Resolution of the Kyrgyz Government)

National Accounts System

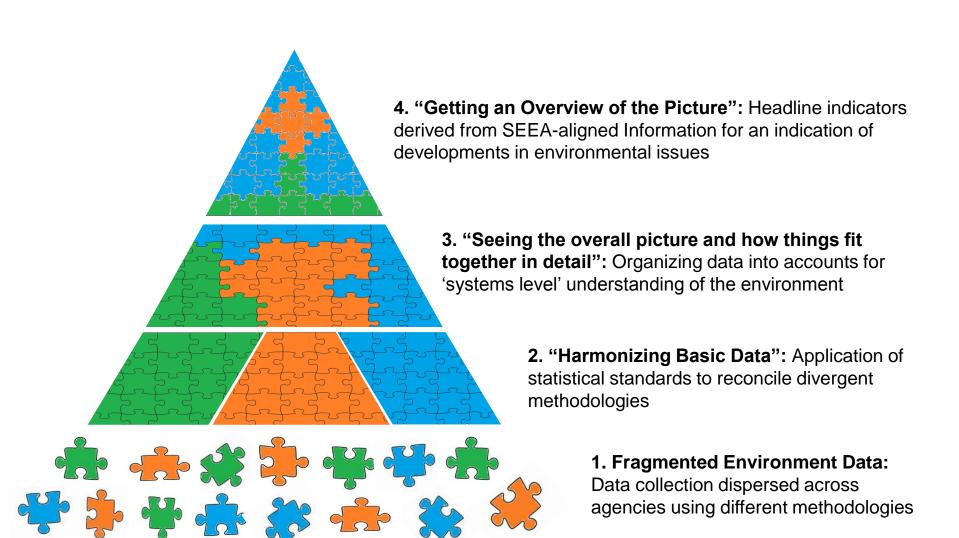


"Gross Domestic Product, the leading economic measurement, is outdated and misleading. Long the standard scorecard for any national economy, GDP has become deficient as a measure of long-term economic health in our resource-driven, globalizing world. Think about it. It's like grading a corporation based on one day's cash flow and forgetting to depreciate assets and other costs."

J. Stiglitz, a Recipient of the Nobel Memorial Prize in Economic Sciences



System of Environmental-Economic Accounts (SEEA): Conceptual Framework



System of Environmental-Economic Acocunts: What is it?

The System of Envionmental-Economic Accounts (SEEA) provides a framework for converting industry accounts/data into integrated, policy-relevant information:

Industry accounts

Industry accounts

Industry accounts

Industry accounts

Integrated information





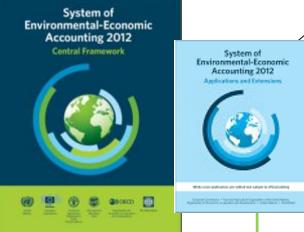


Types of environmental accounts

Energy accounts

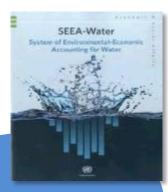
Environmental-Economic Experimental Ecosystem Accounting

> **Experimental Ecosystem Accounts**



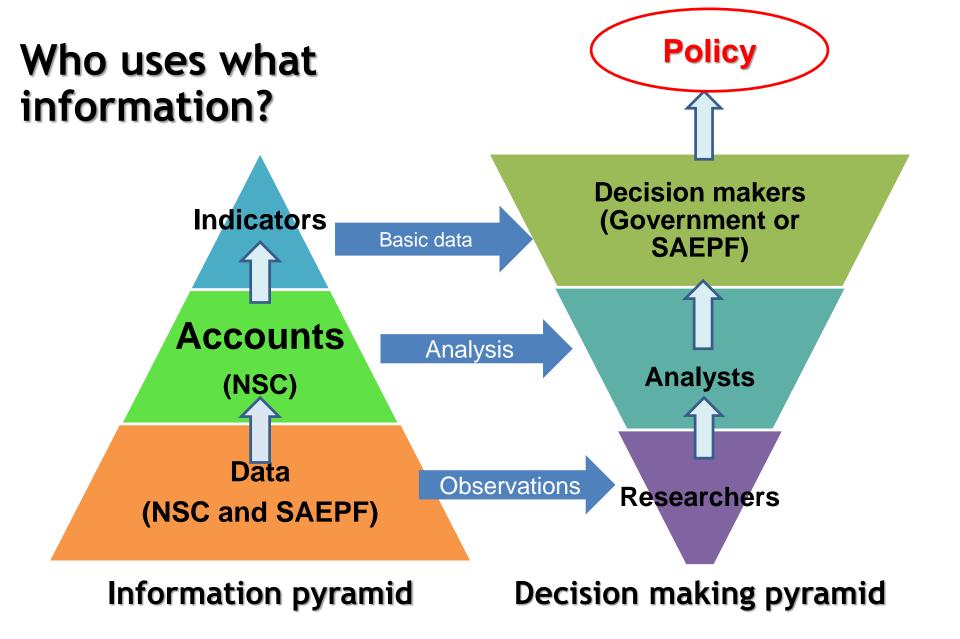


Forest accounts



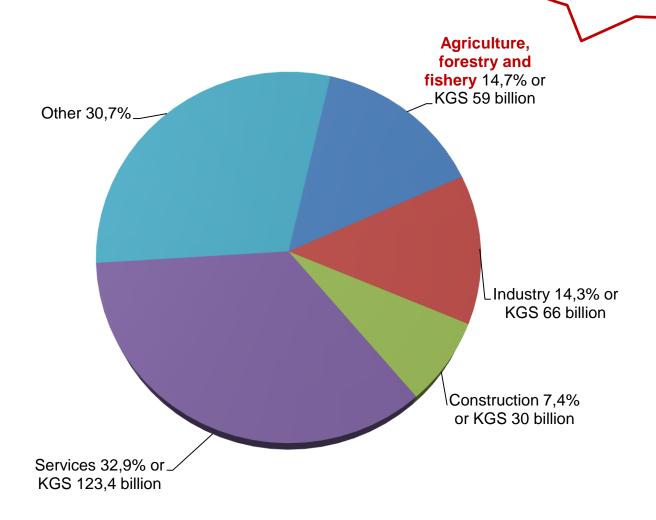
Water accounts

Land accounts



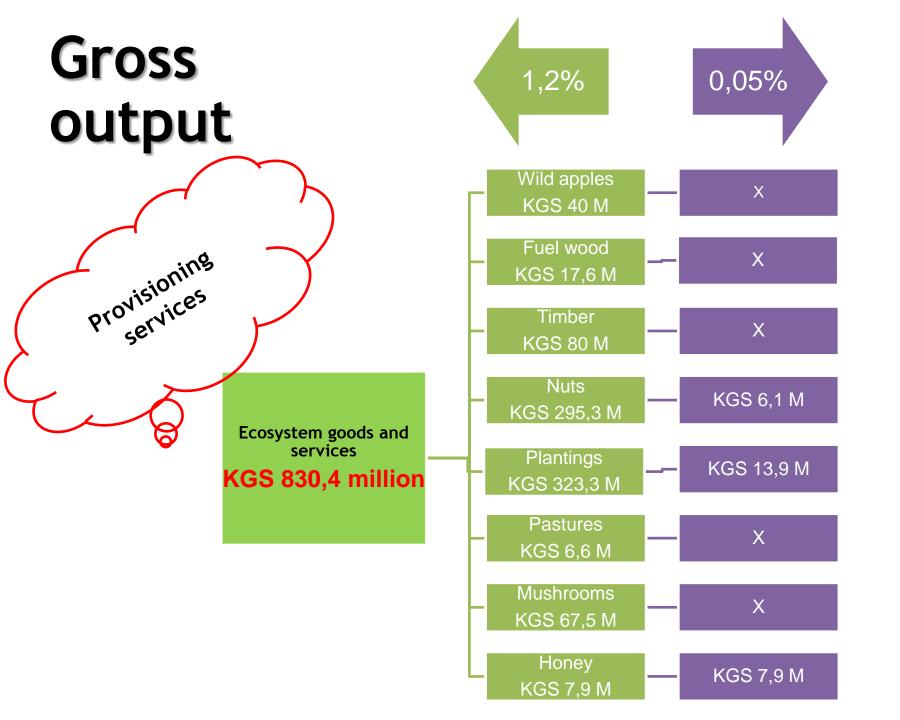
Kyrgyzstan 2014 GDP structure

- Agriculture -99,9% or KGS 58,4 billion
- Forestry -0,05% or KGS 0,3 billion



Forest accounts in the 2014 GDP structure

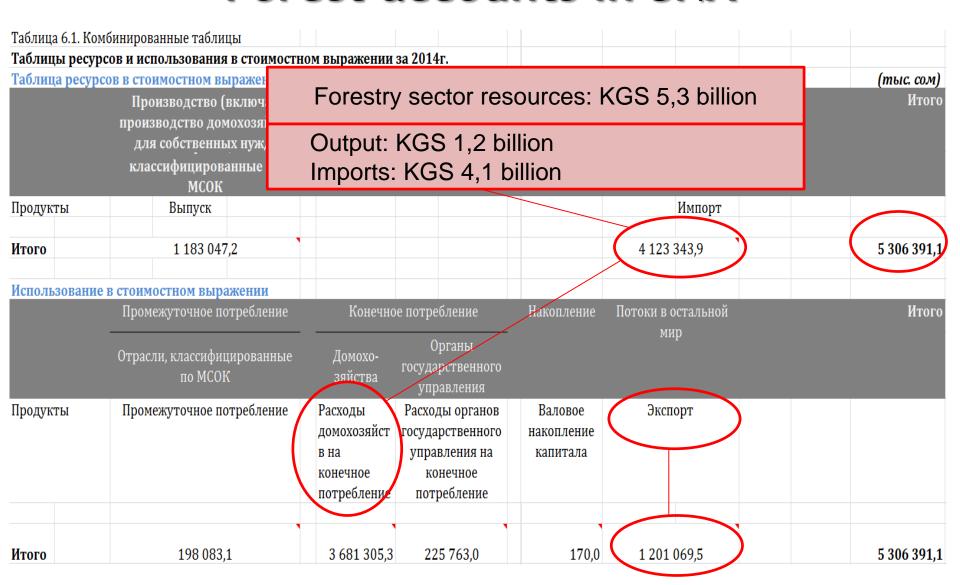
	Before		After		
	TOTAL	Including Forests	TOTAL	Including Forests	Delta
Share of agriculture, forestry and fishery in GDP					
and nonory in OD1	14,70%	0,05%	15,9%	1,24%	25 times
Gross output, KGS million	195 304,6	268,6	196 135,4	830,4	561,8
Interim consumption (current expenditures)					
	136 568,0	74,2	136 669,8	110,8	27,6
Gross Added Value	58 736,0	194,4	59 464,5	728,5	534,1



International classification of ecosystem services for SEEA ecosystem accounting

Экосистемные услуги*		Примеры: польза от лесов	
Снабжение	Древесина	Древесина	
	Дрова/уголь	Энергия от древесины	
	Недревесные продукты леса	Продукт питания, корма, медицинские препараты	
	Генетический материал	Разработка продукции	
	Выпас	Корм скота	
Регуляция	Опыление	Сельскохозяйственное производство	
	Регулирование расхода воды	Гидроэнергетика	
	Формирование и удержание почв	Контроль осадков	
	Регулирование воднего цикла	Снабжение (питьевой) водой	
	Атмосферное/климатическое регулирование	Хранение/секвестрация углерода	
Культурные услуги	Отдых	Туризм	
	Информация и знания	Исследование/образование	
	Духовное развитие	Культурное наследие, идентификация, духовные/религиозные функции	
	Неиспользование	Существование/наследие	

SEEA integrated indicators-Forest accounts in SNA



Achievements



- Fulfilment of national and international obligations
- Efficient inter-agency cooperation
- National ownership of project results/activities
- Identification of gaps and needs
- Availability of a local expert capacity

Problems and challenges



- Complexity of integration into national accounts
- Incomparability of indicators due to differences in methodologies of collection and processing
- Lack of comprehensive system of accounting and reporting, reliability of databases;
- Lack of sectoral methodologies for calculation of indicators;
- Lack of uniform and precise definitions and terms;
- Impossibility of recalculation of sectoral macroeconomic indicators (e.g., share of the forestry sector) due to estimated expert data and lack of their systematic collection

Next steps and needs



- Reforming the existing agency-specific systems of accounting for natural resources that are traditionally oriented at information collection mainly for industryspecific goals;
- Developing a set of indicators not included into the system of the state statistical observation and assigning an official status to them;
- Creating a system for managing of integrated databases;
- Coming up with uniform terms and definitions and solidifying them in the Kyrgyz legislation.

...We cannot manage what we cannot measure...



✓Over a single sunny day, 1 hectare of forest sequesters from air 120-280 kg of carbon dioxide and emits 180-200 kg of oxygen ✓A single medium-sized tree produces enough oxygen for 3 people to breathe ✓A single hectare of conifers catches over a year 40 tons of dust, while a single hectare of deciduous - 100 tons

Thank you!