



ASIA AND PACIFIC COMMISSION ON AGRICULTURAL STATISTICS

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The System of Environmental-Economic Accounting for Agriculture, Forestry and Fisheries (SEEA Agriculture)

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The System of Environmental-Economic Accounting for Agriculture, Forestry and Fisheries (SEEA Agriculture)

26TH MEETING OF THE ASIA-PACIFIC COMMISSION
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Summary

SEEA Agriculture Forestry and Fisheries:

- Introduction
- Progress towards adoption by UNSC 2016
- Country Implementation Plans
- Linkage to SDG indicators, national systems



System of Environmental Economic Accounting

- The SEEA links the economic accounts in the System of National Accounts to relevant environmental statistics
- Attempt to better capture the costs and benefits of economic activities in relation to natural resource use, in a coherent framework
- Provide methodological base for contextualizing, linking and measuring sustainable production and consumption
- The **SEEA Central Framework** is a UN Statistical Standard adopted by the UNSC in 2012

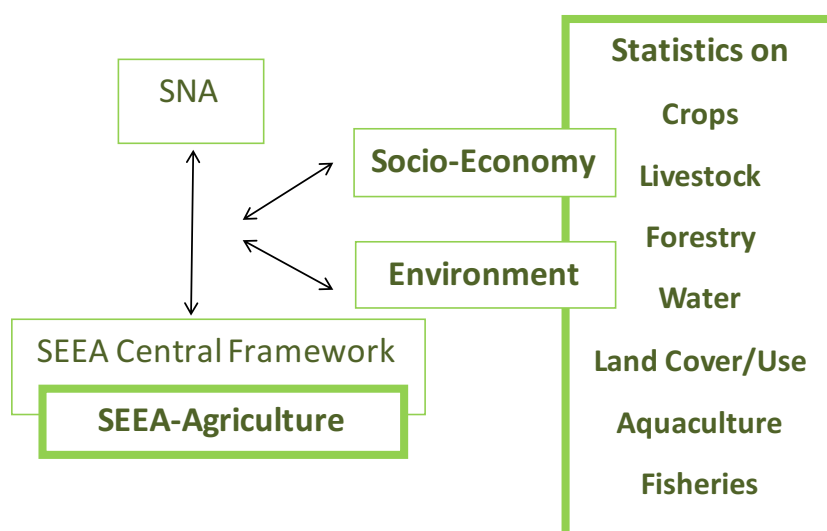


SEEA Agriculture Forestry and Fisheries

- The development of a **System of Environmental-Economic Accounting for Agriculture, Forestry and Fisheries** by FAO was endorsed by the **UN Committee of Experts on Environmental-Economic Accounting (UNCEEA)** in Jun 2011
- The scope of SEEA Agriculture covers **agriculture, forestry and fisheries** activities, and the design of the relevant accounts reflects an application of the tables and accounts of the **SEEA Central Framework** to the organization of data on these activities.



SEEA Agriculture Forestry and Fisheries



SEEA-Agriculture: Progress towards adoption

	2013	2014	2015	2016
Start	X			
Feasibility Pilots		Canada Australia	Indonesia Guatemala	
Regional Commissions	IICA AFCAS	APCAS		IICA AFCAS APCAS
International Events			UNSC UNCEEA	London Group
Global Consultation			1 st GC	2 nd GC
Editorial Board			X	X
UNSC Submit				X
Country Pilots				Uruguay
Training				Uganda

SEEA Agriculture Forestry and Fisheries: Structure

- SEEA-Agriculture covers 10 broad data domains:

1	Agricultural products and related environmental assets
2	Forestry products and related environmental assets
3	Fisheries products and related environmental assets
4	Water resources
5	Energy
6	Greenhouse Gas (GHG) emissions
7	Fertilizers, nutrient flows and pesticides
8	Land Cover and Land Use
9	Soil resources
10	Other economic data



SEEA-Agriculture: Physical Supply and Use Tables

- As example of **Physical Supply and Use Table**, the **Crop Physical Supply and Use Table** (PSUT) records the flows in physical terms of selected crop commodities.
- Distinction between agricultural activity (including forestry and fishing) and other economic activities (particularly manufacturing) and therefore among raw and processed commodities

Crop and Crop product physical flows (MU = 000 tonnes) Ver 1.3 4 Feb 2014

Product	Output				TOTAL	Imports	Total Supply	Intermediate consumption					HH consumption		Waste	Stock Variation	Exports	Total Use	
	Gross production	Harvest losses	Ag. Industry	Manu. Industry				OUTPUT	Agricul. Ind. (Feed)	Agricul. Ind.(Seed)	Energy Use	Food Processing	Non-food processing	Food					Other uses
	Maize			376				N.A.	376	1	377	293	1						121
Maize (processed)			N.A.	132	132	23	155						112	9	1113.08	99.92	155		



SEEA-Agriculture: Asset Accounts Tables

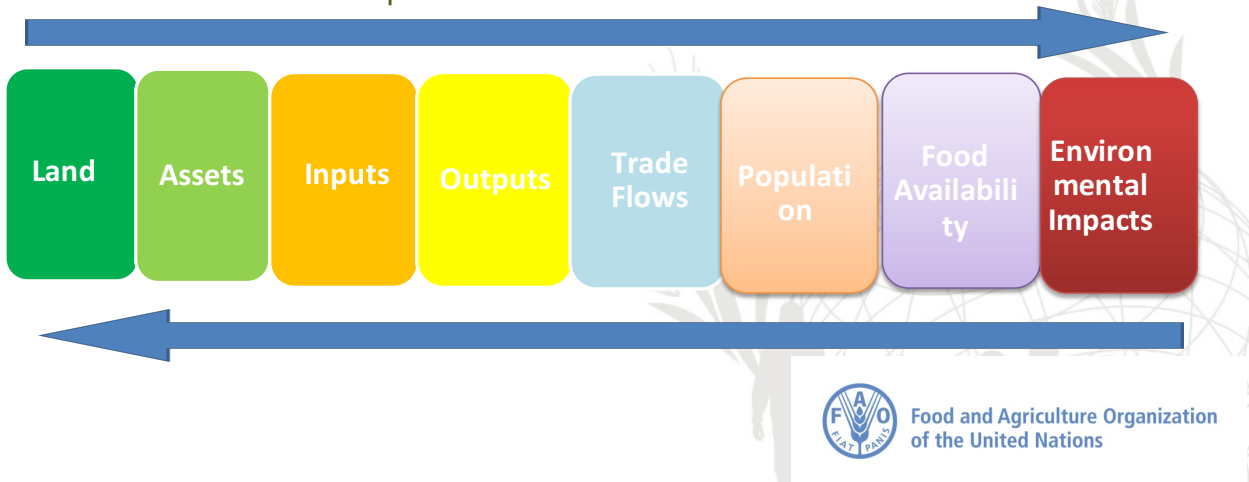
- As example for forest and timber resources (MU = 000 ha) records both the stock and the changes in stock of the area covered by forest

Australia, 2005-2010	Opening stock	Additions to stock		Reductions in stock		Net changes in stock	Closing stock
		Managed expansion	Natural expansion	Managed regressions	Natural regression		
Primary forest	5233					-194	5039
Other naturally regenerated forest	147059					-4700	142359
Naturally generated forest	152292					-4894	147398
Planted forest	1628					275	1903
Forest land	153920					-4620	149300
Other wooded land	118					1	119



SEEA Agriculture Forestry and Fisheries: A coherent data framework

- The SEEA Agriculture Forestry and Fisheries offers a cross cutting perspective of environmental and economic variables, and a coherent framework for analysis across relevant data domains: Land, Assets, Inputs, Outputs, Trade Flows, Population, Food availability and Environmental Impacts.



Country Implementation: Phased Approach

Tier 1: Default, international datasets such as FAOSTAT

- Use for gap filling and QA/ QC
- Trend analysis and indicators
- Transparent, coherent cross-country comparison

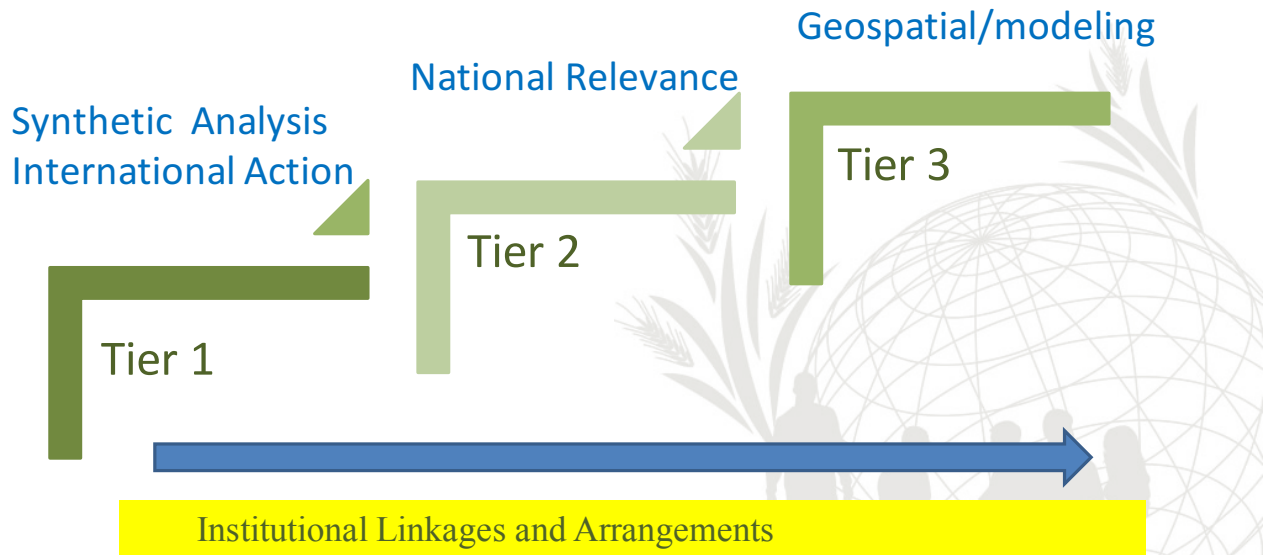
Tier 2: National data

- Appropriate for domestic action
- Broader coverage of sector detail
- Increased analytical potential

Tier 3: Sub-national detail

- Geo-spatial data
- Data and Model Integration
- Additional data collection, large data handling capacity

A Phased Tiered Approach for national analysis

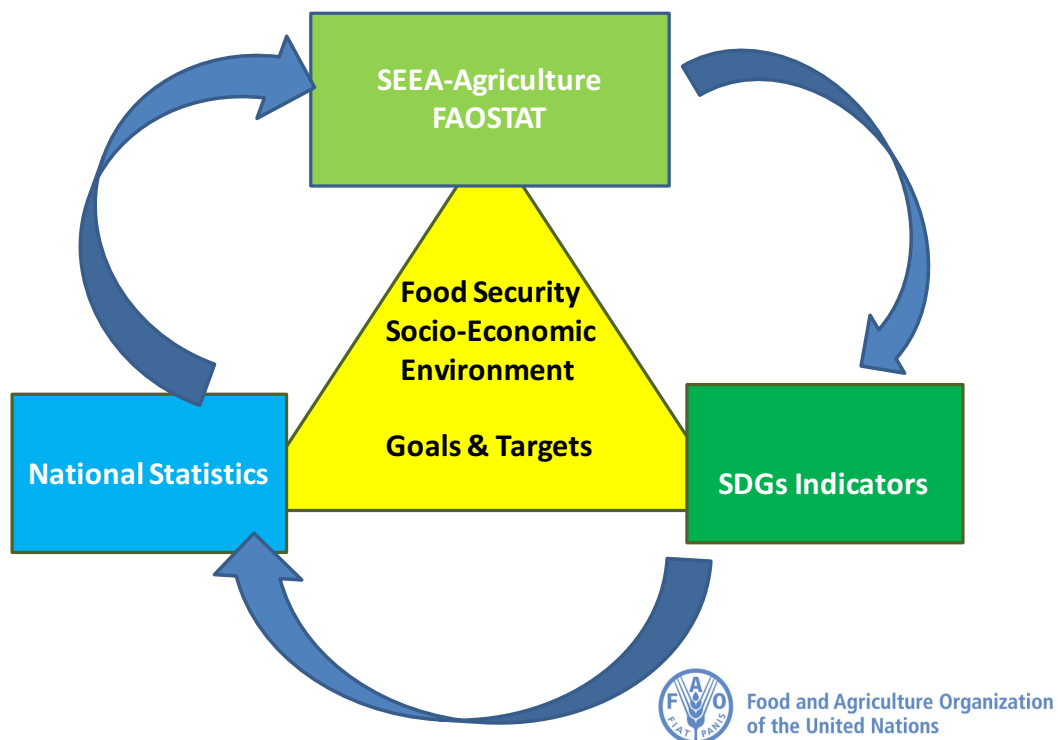


SEEA Agriculture Forestry and Fisheries: Reference Combined Presentation

	Output				Trade Flows				Population	Food availability		Environmental impacts
	Actual Production	Gross Production Value	Value added	Total GDP	Exports		Imports			Food tonnes	Food supply (Kcal/capita / day)	
	(100 tonnes)	(Mt)	USD million dollar (current)	USD million dollar (current)	(Mt)	(100 tons)	(100 tons)	USD million dollar (current)		(M)	(100 tons)	
TOTAL												
Agriculture												
Arable Land												
Permanent Crop												
Permanent Meadows and Pasture												
Cocoa, Primary												
Cocoa												
Rum and tobacco												
Rubber												
Wool												
Oil bearing crops												
Vegetables												
Fruit												
Fiber												
Yucca Crop												
Other crops												
Cattle and Buffalo												
Swine and Poultry meat												
Milk												
Sheep and Goats												
Sheep and Goats meat												
Milk												
Pigs												
Meat, pigs												
Poultry, fresh												
Eggs, primary												
Meat, poultry												
Other livestock												
Meat, other livestock												
Forestry												
Planted forest												
Primary forest												
Other naturally generated forests												
Some meat and edible forest products												
Wood fuel												
Industrial Roundwood												
Sawlogs and veneer logs												
Palings, board and logs												
Other industrial Roundwood												
Other forest products												
Water												
Internal water												
Global water (SDG)												
Agriculture products												
Industrial products												



SEEA and SDGs: A virtual cycle for improving national statistical systems



SEEA Agriculture Forestry and Fisheries: Conclusions and Recommendation

APCAS delegates are asked to deliberate on the following key issues:

- Welcome the proposed adoption of the SEEA Agriculture as a UN statistical standard
- Endorse the proposed SEEA Agriculture strategy, characterized by a phased approach in data complexity, in support of statistical capacity development activities in member countries
- Encourage FAO to develop a strategy for exploring the usefulness of SEEA Agriculture towards development of SDG indicators within a coherent, transparent and comparable monitoring framework
- Recommends FAO to support member countries in Asia-Pacific through establishment of country pilots.



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y la
Alimentación

Thank You!

For additional information:

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<http://www.fao.org/economic/ess/agri-environment/en/>



Food and Agriculture Organization
of the United Nations