

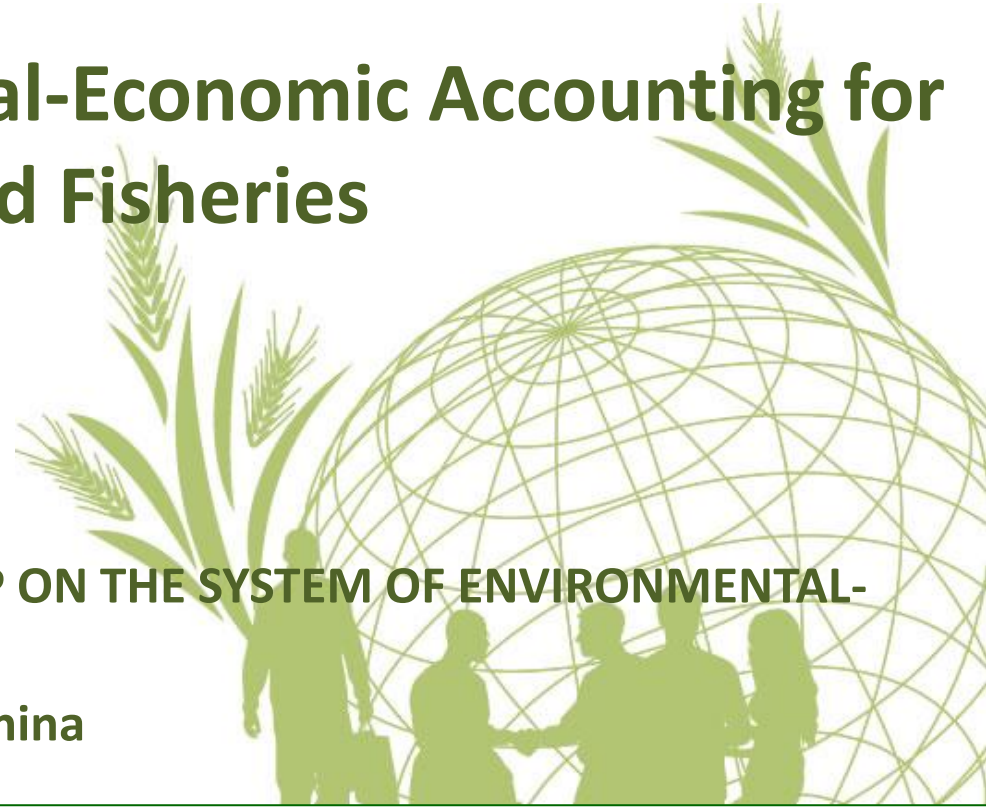


System of Environmental-Economic Accounting for Agriculture, Forestry and Fisheries

SEEA-AGRICULTURE

21st REGIONAL TRAINING WORKSHOP ON THE SYSTEM OF ENVIRONMENTAL-
ECONOMIC ACCOUNTING

16-18 November 2015, Shanghai, China



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Food and Agriculture Organization
of the United Nations

Summary

SEEA Agriculture:

- Progress and steps towards UNSC 2016
- Country Implementation: Tiered Approach and Reference Combined Presentation



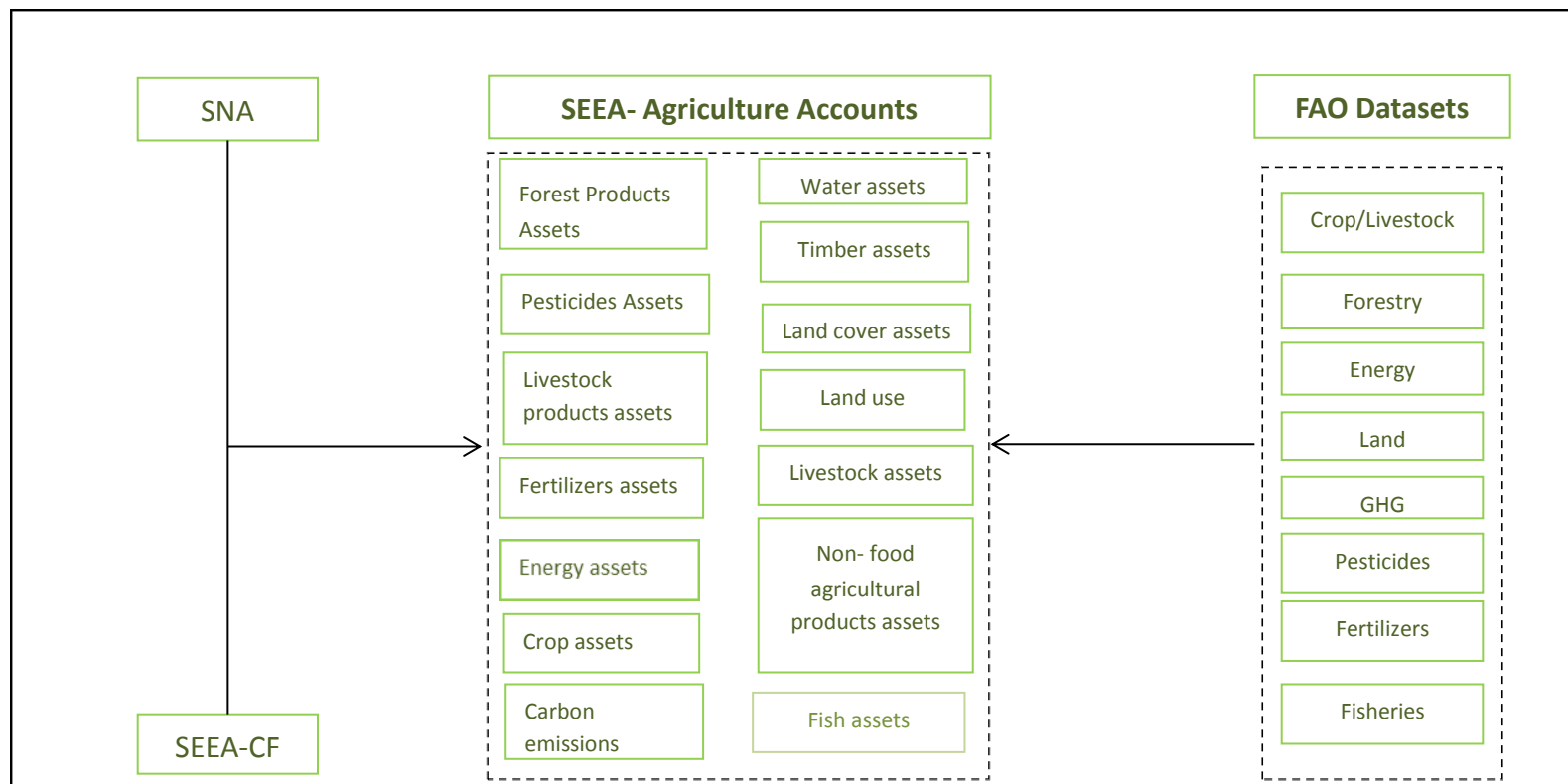
SEEA Agriculture progress to date

- The development of a **System of Environmental-Economic Accounting for Agriculture (SEEA Agriculture)** was proposed by the FAO in 2010 and endorsed by the **UN Committee of Experts on Environmental-Economic Accounting (UNCEEA)** in June 2011.
- UNCEEA also welcomed the involvement of the **London Group**, possibly through the establishment of sub-groups engaging additional experts on key agricultural statistics issues.
- The scope of SEEA Agriculture covers **agricultural, forestry and fishing** 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.
- Direct work on the design of the components of the **SEEA Agriculture** commenced in **June 2013** and has continued steadily since that time.



SEEA Agriculture progress to date

- A central aspect of the work has been the use of many separate FAO statistical datasets (e.g. agricultural production, fertilizer production and use, land use, water statistics, energy and emissions statistics, and others) within SEEA and SNA accounting framework.



SEEA Agriculture progress to date

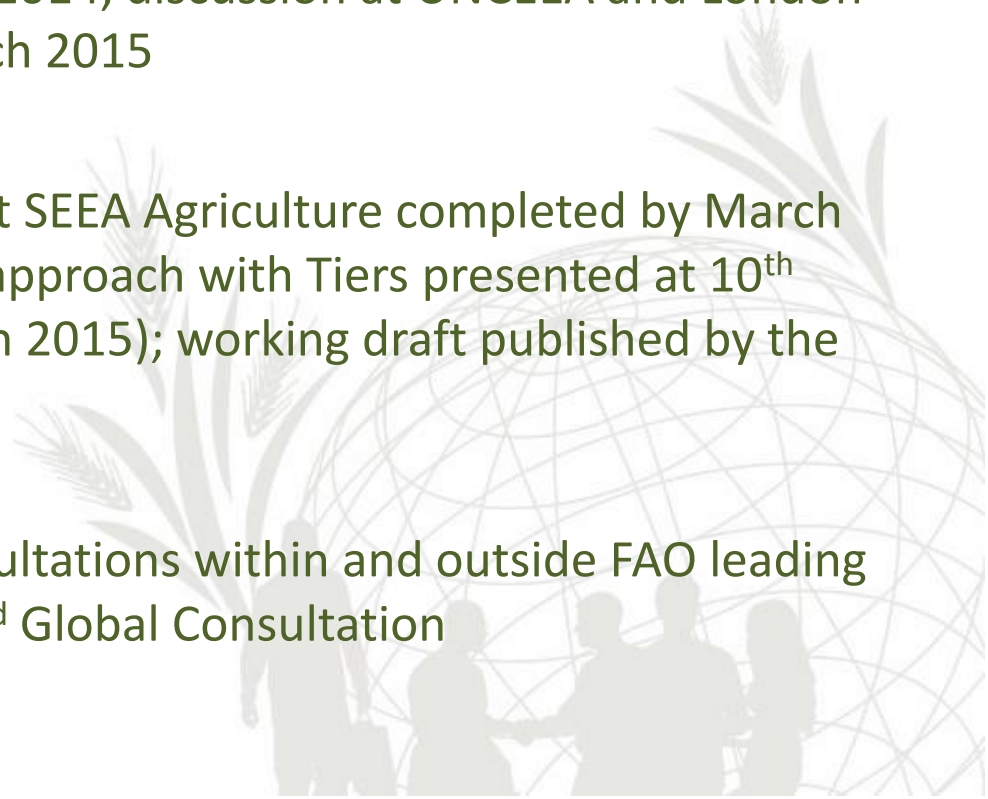
- Design of the SEEA Agriculture framework advanced to cover 10 broad data domains:

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
9	Soil resources
10	Other economic data



SEEA Agriculture progress to date

- Feasibility and usefulness of SEEA Agriculture tested in four countries (Australia, Canada, Guatemala, Indonesia)
- Expert Group Meeting October 2014, discussion at UNCEEA and London Group, side event at UNSC March 2015
- First global consultation on draft SEEA Agriculture completed by March 2015; country implementation approach with Tiers presented at 10th UNCEEA Meeting (New York, Jun 2015); working draft published by the Global Strategy in August 2015
- Additional informal expert consultations within and outside FAO leading to a Final Revised Draft for a 2nd Global Consultation



SEEA Agriculture next steps

- **Second Global Consultation planned Nov-15-Dec 15 2015, including close coordination with UNSD and UNCEEA for finalization process**
- **Finalised revised SEEA-Agriculture draft as background document for UNSC discussion by January 2016, aiming for UNSC adoption in March 2016**



SEEA Agriculture Country Implementation:

A Tiered Approach

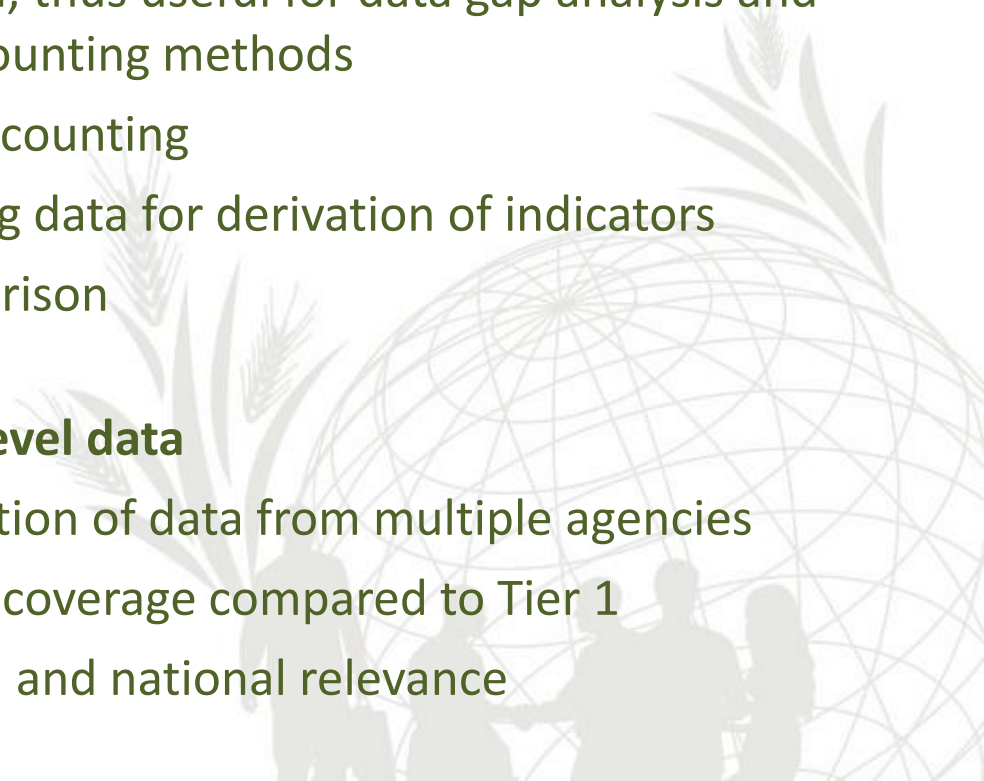
- As presented at the 10th Meeting of the UNCEAA, SEEA Agriculture will be implemented using a tiered approach, including use of combined presentations:

Tier 1: Compilation of accounts using global datasets of official country data, such as those communicate to FAO and disseminated via FAOSTAT

- Based on official national data, thus useful for data gap analysis and QA QC of more advanced accounting methods
- Designed as entry point for accounting
- Less detail, focus on organising data for derivation of indicators
- Basis for cross-country comparison

Tier 2: Use of available national level data

- Provide a platform for integration of data from multiple agencies
- Additional detail and broader coverage compared to Tier 1
- Additional analytical potential and national relevance



SEEA Agriculture Tiered Approach

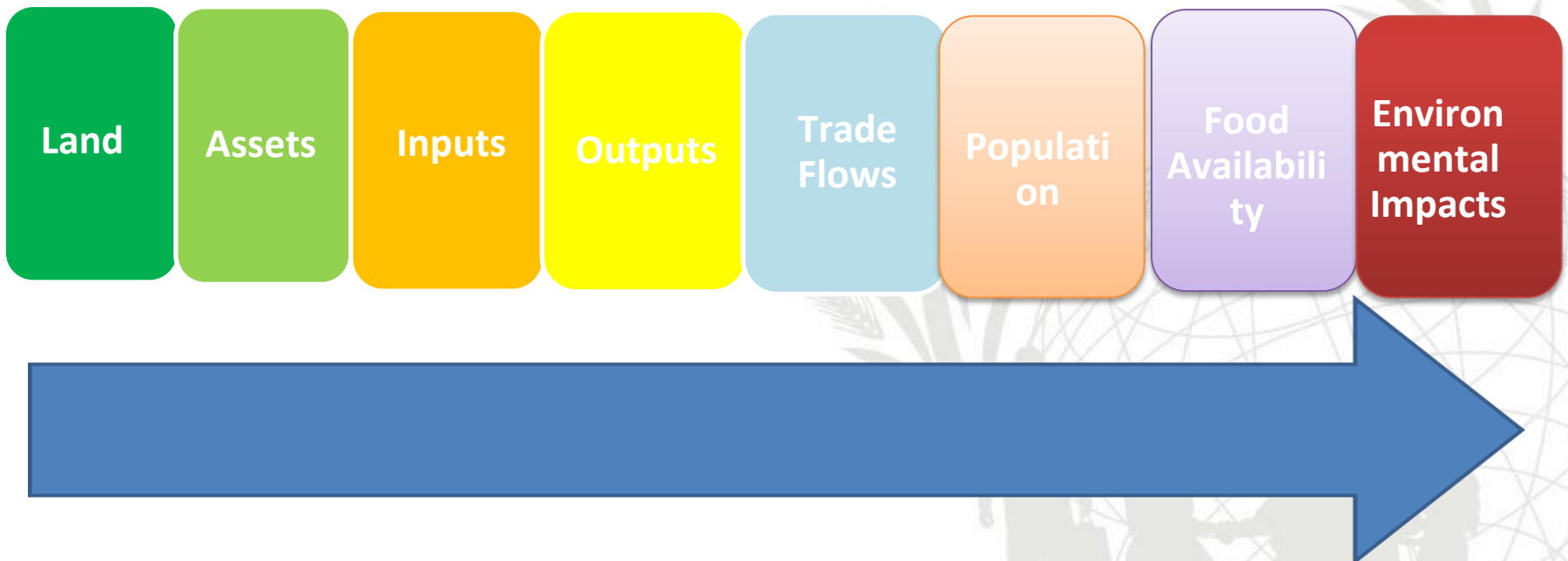
Tier 3: Full implementation

- Likely to require additional data collection
- Extend to sub-national, geo-spatial data
- Build progressively, perhaps develop Tier 3 accounts as benchmarks



SEEA Agriculture Tier 1 Approach: Reference Combined Presentation

- The SEEA-Agriculture Reference Combined Presentation is a cross cutting perspective on a critical set of environmental and economic variables, based on the following structure: Land, Assets, Inputs, Outputs, Trade Flows, Population, Food availability and Environmental Impacts.



SEEA Agriculture Reference Combined Presentation

SEEA-AGRICULTURE COMBINED PRESENTATION

	Assets					Inputs								
						Water Withdrawal	Energy Use	Synthetic Fertilizer			Organic Fertilizer			Pesticides
	Land Area (000 ha)	Harvested Area (000 ha)	Biomass stock (million tonnes)	Number of Heads (Stock) (000 heads)	Producing Animals (000 heads)	(m3)	(terajoules)	N (000 tonnes)	P ₂ O ₅ (000 tonnes)	K ₂ O (000 tonnes)	N (000 tonnes)	P ₂ O ₅ (000 tonnes)	K ₂ O (000 tonnes)	(000 tonnes)
TOTAL				*See note 1	*See note 1									
Agriculture				*See note 1	*See note 1									
Arable Land														
Permanent Crop														
Permanent Meadows and Pastures														
Crops Primary														
Cereals														
Roots and tubers														
Pulses														
Nuts														
Oil-bearing crops														
Vegetables														
Fruits														
Fibres														
Fodder Crops														
Other Crops														
Cattle and Buffaloes														
Beef and buffalos meat														
Milk														
Sheep and Goats														
Sheep and Goats meat														
Milk														
Pigs														
Meat, pigs														
Poultry Birds														
Eggs primary														
Meat, poultry														
Other livestock														
Meat, other livestock														
Forest														
Planted forest														
Primary forest														
Other naturally generated forests														
Game meat and edible forest products														
Wood Fuel														
Industrial Roundwood														
Sawlogs and Veneer Logs														
Pulpwood, Round and Split														
Other Industrial Roundwood														
Other forest products														
Water														
Inland water														
Coastal water (EEZ)														
Aquaculture products														
Fisheries products														



SEEA Agriculture Reference Combined Presentation

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SEEA Agriculture Reference Combined Presentation

	Outputs				Trade flows								Population	Food availability		Environmental Impacts		
	Actual Production		Gross Production Value	Value added	Exports			Imports				(000)		Food (000 tonnes)	Food supply (Kcal/capita / day)	GHG Emission (CO2 eq) from Agriculture		
	(000 tonnes)	(m3)	USD million dollars (current)	USD million dollars (current)	USD million dollars (current)	(m3)	(000 heads)	(000 tonnes)	USD million dollars (current)	(m3)	(000 heads)		(000 tonnes)	USD million dollars (current)	(000)	(000 tonnes)	(Kcal/capita / day)	(gigagrams)
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SEEA Agriculture Reference Combined Presentation

- The SEEA-Agriculture Reference Combined Presentation (CP) provides national experts with an entry point for compilation of SEEA variables at Tier 1 level, using FAOSTAT data to provide synthetic information in a robust, transparent and internationally comparable manner.
- The SEEA-Agriculture Reference CP provides a common basis to highlight data gaps and further data development needed for addressing more detailed national analysis.



Thank you!

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

