

UNECE Expert Meeting on Statistical Data Collection

29 September 2021

Tracking Government Expenditures in Agriculture: FAO application of IMF Methodology and Data

Gary Jones and Atang Moletsane
FAO Office of the Chief Statistician (OCS)

SDG GOAL 2, TARGET 2.a & INDICATOR 2.a.1

Indicator 2.a.1 monitors progress in achieving Target 2.a

Indicator 2.a.1: The Agriculture Orientation Index (AOI) for Government Expenditures:

- refers to domestic public flows to agriculture
- compares government's relative contribution to the agricultural sector compared to the sector's contribution to Gross Domestic Product (GDP).

2 ZERO
HUNGER



INDICATOR 2.A.1 – AOI FORMULA

$$AOI = \frac{\textit{Agriculture Share of Government Expenditures}}{\textit{Agriculture value added Share of GDP}}$$

Where:

$$\begin{aligned} \textit{Agriculture Share of Government Expenditure} &= \\ &= \frac{\textit{Government Expenditure on Agriculture}}{\textit{Total Government Expenditure}} * 100 \end{aligned}$$

Agriculture refers to IMF GFS COFOG category 042 (agriculture, forestry, fishing and hunting); and

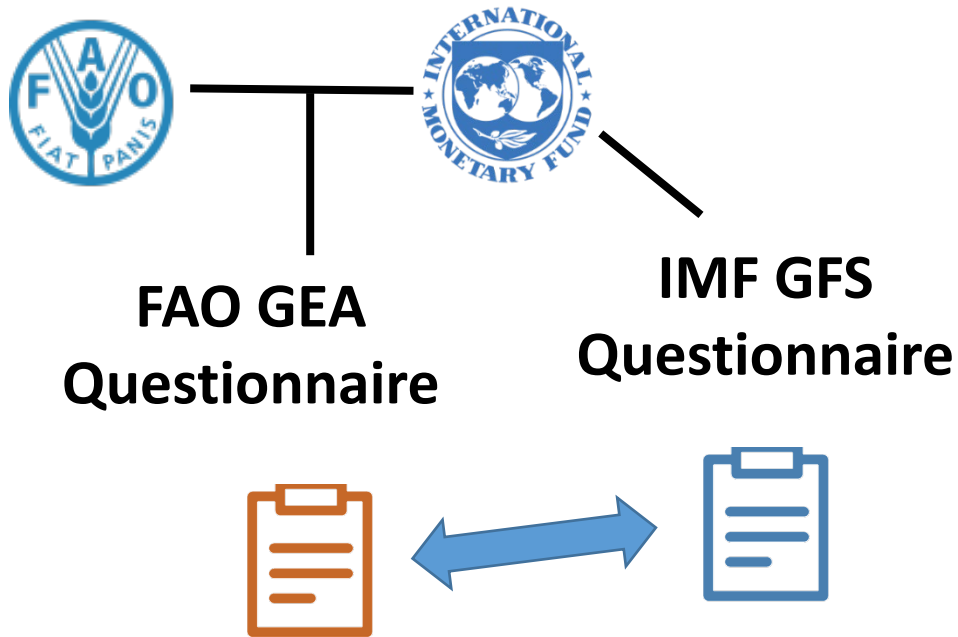
$$\begin{aligned} \textit{Agriculture value added Share of GDP} &= \\ &= \frac{\textit{Agriculture value added}}{\textit{GDP}} * 100 \end{aligned}$$

SDG GOAL 2, TARGET 2.a & INDICATOR 2.a.1

Indicator 2.a.1: is considered a Tier 1 Indicator

- conceptually clear
- has an internationally established methodology and standards are available
- data are regularly produced by countries for at least 50 per cent of countries in every region

FAO - GOVERNMENT EXPENDITURE ON AGRICULTURE (GEA) QUESTIONNAIRE



- Developed in collaboration with IMF;
- Aligns with Table 7 of the IMF GFS Questionnaire – “Expenditure by Function of Government (COFOG)”
- Seeks more details on Agriculture sector, plus recurrent/capital breakdown

The FAO GEA and IMF GFS Questionnaires

- FAO GEA Questionnaire replicates relevant aggregates of Table 7 of IMF GFS Questionnaire
- GEA requests additional detail related to agriculture and environmental protection sectors.

Table 7 of GFS questionnaire

7	EXPENDITURE [=2M]
701	General public services
704	Economic affairs
7041	General economic, commercial, and labor affairs
7042	Agriculture, forestry, fishing, and hunting
7043	Fuel and energy
7044	Mining, manufacturing, and construction
7045	Transport
7046	Communication
7047	Other industries
7048	R & D Economic affairs
7049	Economic affairs not elsewhere classified
705	Environmental protection
7051	Waste management
7052	Waste water management
7053	Pollution abatement
7054	Protection of biodiversity and landscape
7055	R & D Environmental protection
7056	Environmental protection not elsewhere classified

Table A of GEA questionnaire

7	EXPENDITURE (TOTAL OUTLAYS)
704	Economic Affairs
7042	Agriculture, forestry, fishing, and hunting
	→ Recurrent
	→ Capital
70421	Agriculture (crops and animal husbandry)
	→ Recurrent
	→ Capital
70422	Forestry
	→ Recurrent
	→ Capital
70423	Fishing and hunting
	→ Recurrent
	→ Capital
7048	R&D Economic Affairs
70482	R&D Agriculture, forestry, fishing, and hunting
705	Environmental protection
7054	Protection of Biodiversity and Landscape
	→ Recurrent
	→ Capital
7055	R&D Environmental Protection
	→ Recurrent
	→ Capital
7z1	Other, please specify: _____
7z2	Other, please specify: _____

FAO-GOVERNMENT EXPENDITURE ON AGRICULTURE (GEA) - COFOG

Albania - Consolidated General Government Lek, Millions / Fiscal Year ends December 31	2019
7 Expenditure	488,444.2
701 General public services	83,881.8
702 Defense	13,337.1
703 Public order & safety	30,908.5
704 Economic affairs	47,449.5
o/w: 7042 Agriculture, fishing, forestry, & hunting	8,675.2
705 Environment protection	3,125.0
706 Housing & community amenities	36,612.7
707 Health	51,181.8
708 Recreation, culture, & religion	7,310.0
709 Education	55,683.5
710 Social protection	158,954.4

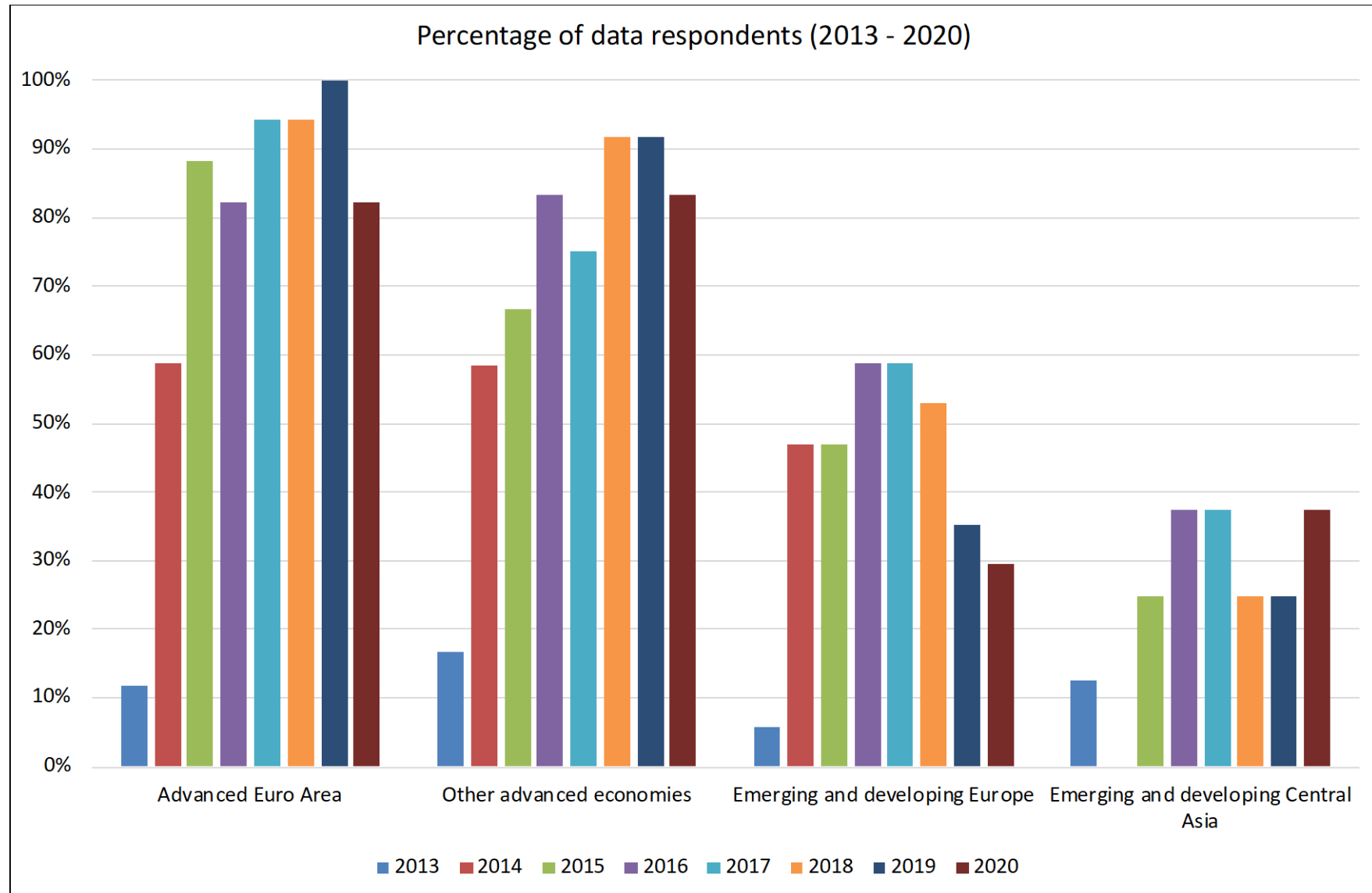
TABLE A: Albania -Government expenditure on agriculture and related functions		2019
		General Government
7	EXPENDITURE (TOTAL OUTLAYS)	488,444.2
704	Economic Affairs	47,449.5
7042	Agriculture, forestry, fishing, and hunting	8,675.2
	→ Recurrent	0.0
	→ Capital	3,944.0
70421	Agriculture (crops and animal husbandry)	8,181.0
	→ Recurrent	0.0
	→ Capital	8,181.0
70422	Forestry	1,527.0
	→ Recurrent	1,111.0
	→ Capital	416.0
70423	Fishing and hunting	0.0
	→ Recurrent	114.0
	→ Capital	134.0
70424	Other agriculture, forestry, fishing, and hunting	0.0
	→ Recurrent	0.0
	→ Capital	0.0
705	Environmental protection	3,125.0
7054	Protection of Biodiversity and Landscape	14.0
	→ Recurrent	14.0
	→ Capital	0.0
7055	R&D Environmental Protection	0.0
	→ Recurrent	0.0
	→ Capital	0.0

REPORTING BY UNECE COUNTRIES

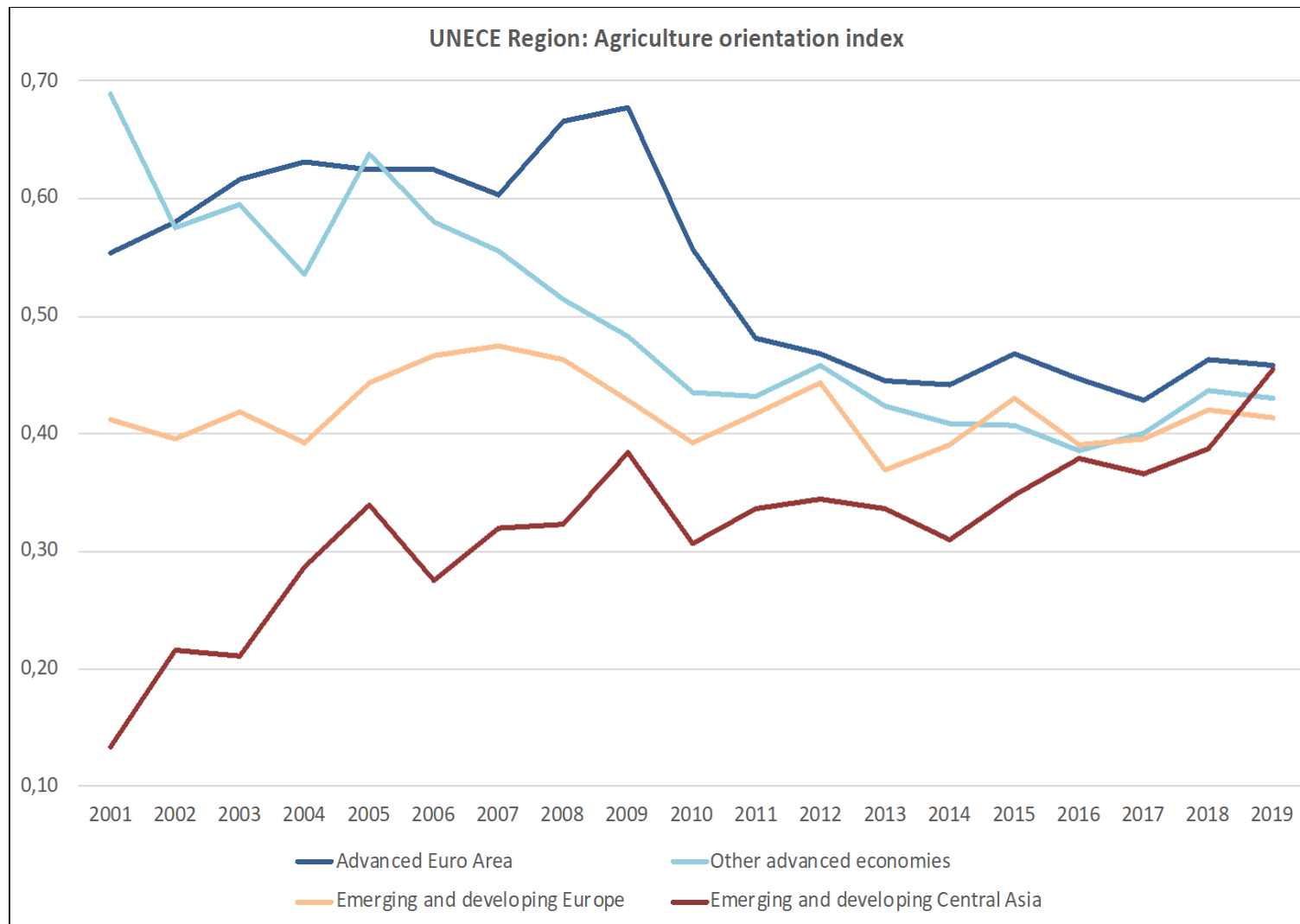
GFS reporting to the IMF and GEAQ to the FAO by UNECE countries is relatively comprehensive

- FAO conducts benchmarking exercise comparing government expenditure on agriculture in the IMF and FAO databases to identify non-reporting countries
- Few UNECE countries (Andorra, Bosnia and Herzegovina, Montenegro, North Macedonia, Tajikistan and Turkmenistan) have not yet reported (or only irregularly report) through GEAQ or GFS

REPORTING BY UNECE COUNTRIES



AOI OUTCOMES IN UNECE COUNTRIES



- AOI for **advanced economies** is generally **higher** but has **declined** in comparison to emerging market and developing countries.
- In **emerging and developing UNECE countries** the trends have been **steadier**, and there has been a **slight rise in the AOI since 2010**
- Emerging and developing UNECE countries spend a **much higher proportion of their budgets on agriculture**

QUESTIONS FOR DISCUSSION

- Future focus should be on optimizing the use of available CD resources by tailoring them to countries' specific circumstances. Do participants see the need for a general (virtual) UNECE workshop on the status of the SDGs for which FAO is the Custodian Agency?
- There is also scope for reducing the reporting burden. For many countries this could be addressed by adopting the Statistical Data and Metadata Exchange (SDMX) Data Structure Definitions under Domain 2: Economic statistics for Domain 2.5 Government finance to the GEAQ, fiscal and public sector statistics. Do participants support – and are there UNECE countries willing to pilot – SDMX data transmission of the disaggregated data included in the FAO GEAQ?
- FAO would welcome the opportunity to participate in UNECE's formal platforms of cooperation where relevant for SDG Indicator 2a.1. Are there UNECE member countries that would like to engage with FAO to develop (or further develop) GEAQ reporting capacity?

Thank
You

Contact us at: Gary.Jones@fao.org and Atang.Moletsane@fao.org