



Food and Agriculture Organization
of the United Nations

SDG Indicator 2.4.1 – Data collection instruments

Virtual Training

(September–October 2020)

Arbab Asfandiyar Khan
ESS Division (FAO)

DATA COLLECTION INSTRUMENTS

Farm surveys:

1. Standalone farm survey questionnaire module
2. AGRISurvey programme and 50x2030 initiative

Alternative data sources:

1. EO (GIS / Remote sensing)
2. Administrative records
3. Household surveys
4. Monitoring systems
5. Census

OPTION 1: STANDALONE SURVEY QUESTIONNAIRE

- Designed as a module with minimum set of questions
- Flexible as it can be administered as an independent survey or attached as a module or integrated with existing national farm surveys.
- Cognitive Tests in Mexico, Bangladesh and Rwanda to:
 - Refine design, flow, comprehension, recall, respondent judgment
 - Assess if the questions are sufficient and fully understood
- Extended tests in Bangladesh to:
 - Collect data to test the sustainability criteria
 - Assess time of survey (50 minutes on average)
 - Revise the support documents

OPTION 1: STANDALONE SURVEY QUESTIONNAIRE

The survey questionnaire has 5 sections:

1. Introduction
2. Area of the holding
3. Economic dimension
4. Environmental dimension
5. Social dimension

OPTION 1: STANDALONE SURVEY QUESTIONNAIRE

<p>Survey Module SDG Indicator 2.4.1 Proportion of Agricultural Area under Productive and Sustainable Agriculture <small>Revision 6: 07 August 2019</small></p>
<p>QUESTIONNAIRE</p>

SURVEY INFORMATION

Surveyor first name:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

 Surname:

--	--	--	--	--	--	--	--	--	--	--	--

 Surveyor number:

--	--	--	--	--

Start time of the survey:

--

 hour

--

 minutes Date:

--	--	--	--	--	--	--	--	--	--	--	--

Holding Identification Number:

--	--	--	--	--	--

Section I: INTRODUCTION TO THE SURVEY MODULE AND IDENTIFICATION OF THE HOLDING AND HOLDER

TEXT TO READ:

Hello, my name is -----, I work for the -----, We collect data that the Government and other stakeholders use for planning purposes. I am visting you to collect data on your farm. This is part of a worldwide exercise to measure progress in agriculture organised together with the Food and Agriculture Organization of the United Nations. The information you provide will be treated confidentially. It will only be used for statistical purposes and will be put together with responses from other farmers for use in the formulation of programmes and policies to promote more productive and sustainable agriculture. This interview should take approximately one hour. We appreciate your participation in answering these questions.

If you have any questions regarding this survey, you are welcome to telephone the number indicated on the visiting card of our organization that I leave for you here. I express my gratitude for your participation in this survey in advance.

I.1 Record the following information about the respondent

I.1.1 First name

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

I.1.2 Surname

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

OPTION 1: STANDALONE SURVEY QUESTIONNAIRE

- Support documents:
 - Enumerators manual
 - Instruction Manual for data entry operations and analysis
 - Guidelines on data analysis to compute sub-indicators
 - Sampling guidance for 2.4.1
 - FAO statistical toolkit: comprised of a code book, tabulation plan, and modular STATA scripts to support data analysis

<http://www.fao.org/sustainable-development-goals/indicators/241/en/>

OPTION 1: STANDALONE SURVEY QUESTIONNAIRE

- **Enumerators Manual**
 - Training document for the enumerators
 - Define terms and concepts
 - Provide meaning behind the questions asked
 - How to use of SKIP and FILTER questions
 - Examples of instance where questions and responses may not be easy to administer and record respectively

OPTION 1: STANDALONE SURVEY QUESTIONNAIRE

- **Instruction Manual on Data Entry Operations**
 - Describe data entry operations
 - Procedures to code, clean and process the data
 - Assumes enumerators and data analysts are familiar with the survey questionnaire and the methodology for the SDG 2.4.1

OPTION 1: STANDALONE SURVEY QUESTIONNAIRE

- **Guidelines on data analysis and reporting**
 - Can be used by data producers and data users
 - Provide steps on how to generate data and statistics for calculating the sub-indicators
 - Calculation of thresholds and eventual reporting of the 11 sub-indicators as dashboard.

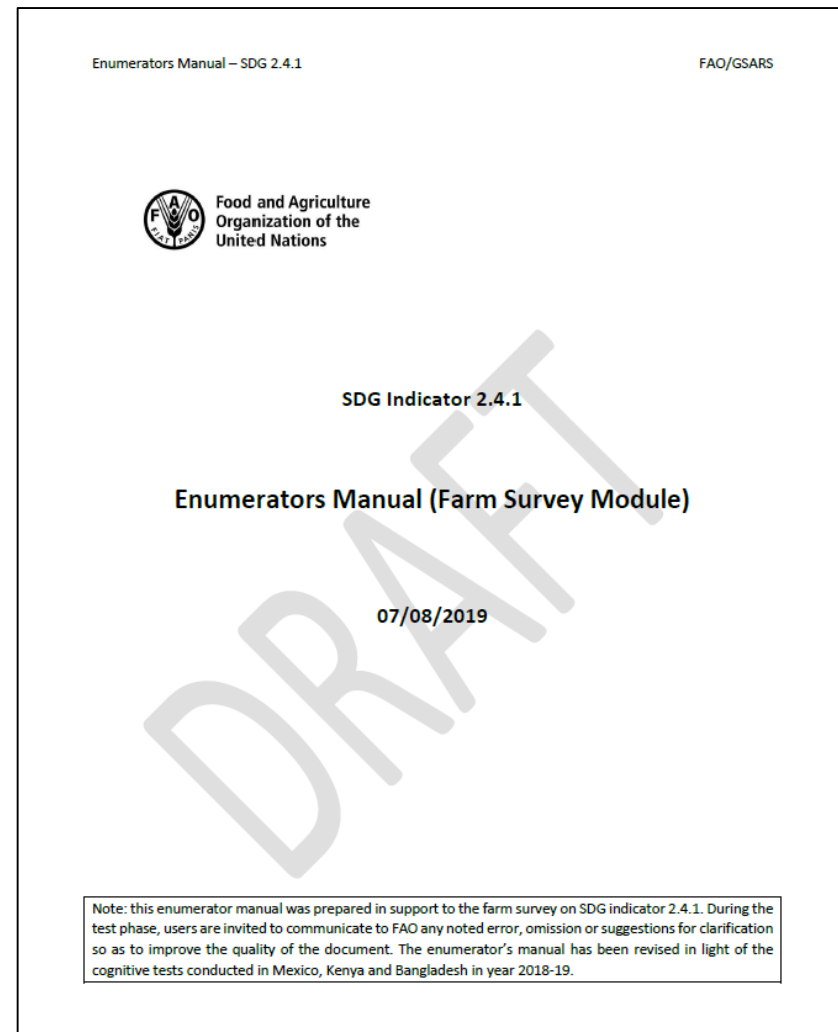
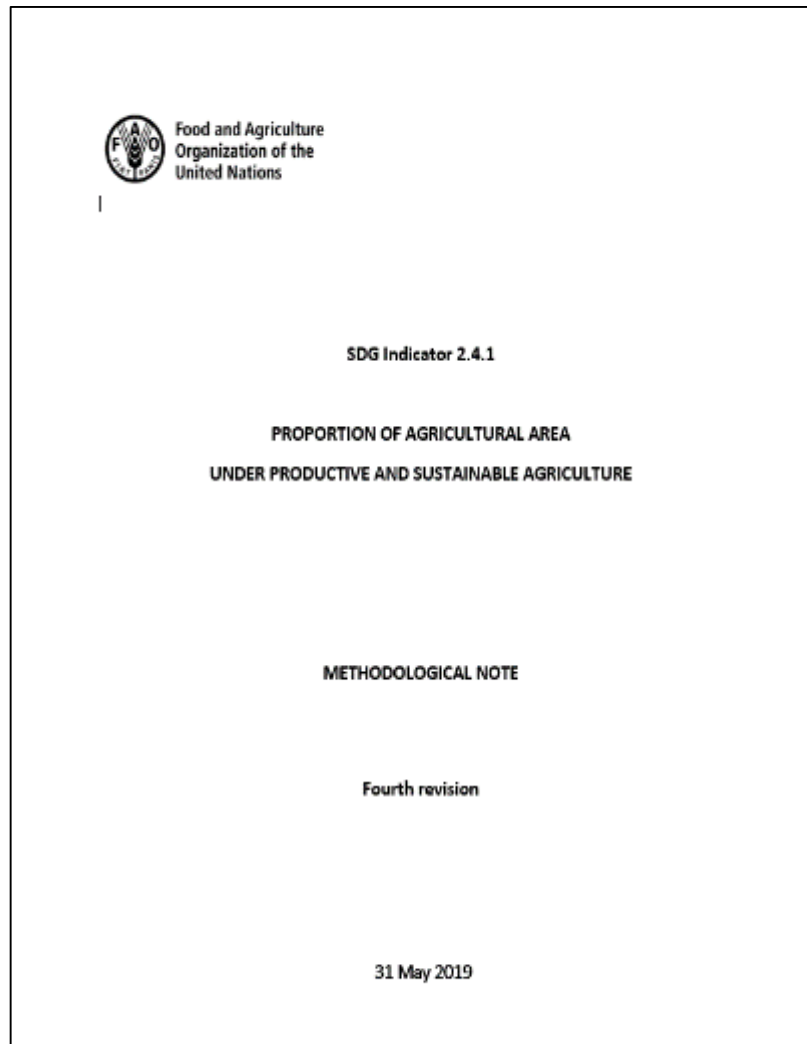
OPTION 1: STANDALONE SURVEY QUESTIONNAIRE

- **Sampling guidance on SDG 2.4.1**
 - Sample design: Sample size, sampling units and frame
 - Reporting units
 - Estimation domains
 - Sample design, estimator and stratification variable
 - Sample allocation in strata
 - And other issues related to SDG 2.4.1 sample selection etc.

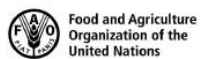
OPTION 1: E-LEARNINGS

- Provide information on the keys aspects of the indicator
- Scope and coverage
- Dimensions, themes and sub-indicators
- Periodicity
- Data collection
- Reporting

OPTION 1: SUPPORTING DOCUMENTS



OPTION 1: SUPPORTING DOCUMENTS



SDG Indicator 2.4.1

**Guidelines for
Data Entry Operations and Data Analysis**

10/09/2019



SDG Indicator 2.4.1

Sampling guidance

11/06/2019



Indicator 2.4.1

From Raw Data to computation of the Indicator

10/09/2019

OPTION 2: EFFORTS TO ENHANCE NATIONAL DATA PRODUCTION

Leverage and capitalize on the AGRISurvey programme, soon to be scaled up into the 50X2030 initiative that aims to support 50 L/LMICs with a survey program by 2030.

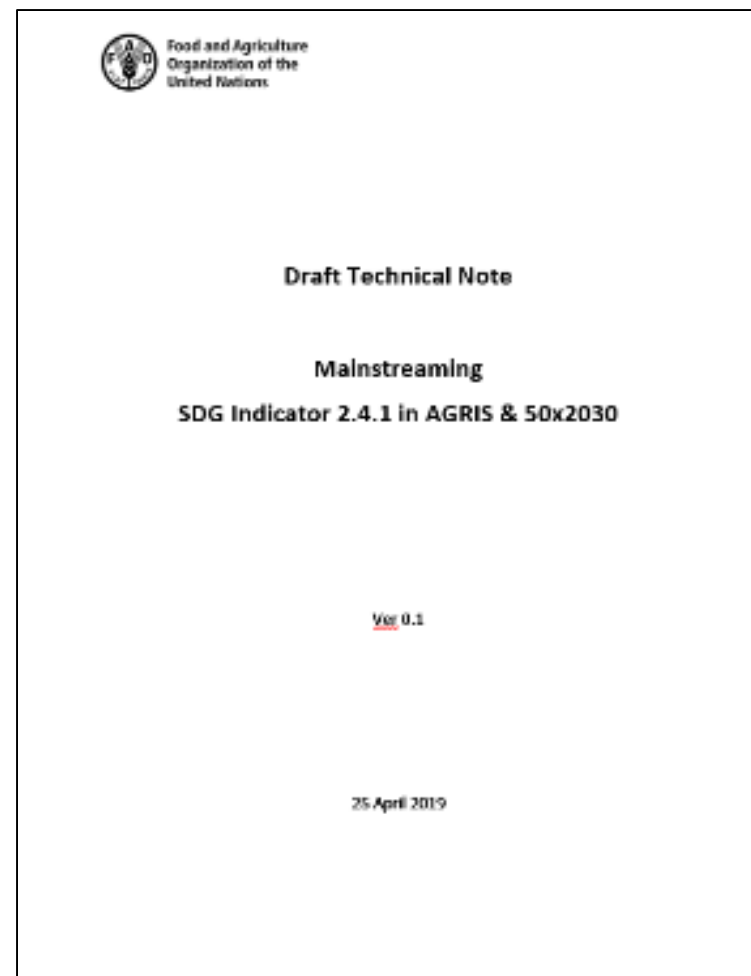
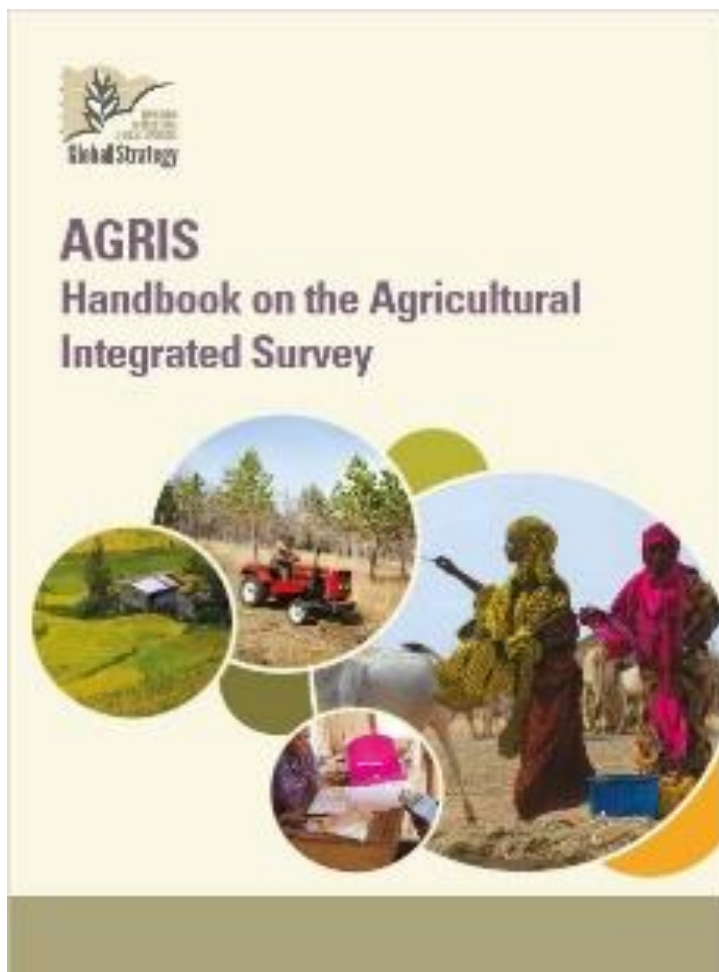
AGRISurvey programme:

- **Core module** : Allowing for 2.4.1 data collection in one single year.
- **Economy & PME modules:** Allowing for 2.4.1 data collection in two consecutive years. Questions for sub-indicators in the social and economic dimensions are integrated in the core module, while questions on environmental sub-indicators are integrated with the Production Methods and Environment Module (PME).

50X2030:

- **PME module with 2.4.1. questions:** Allowing for 2.4.1 data collection in one single year.

OPTION 2: SUPPORTING DOCUMENTS



OPTION 3: USE OF ALTERNATIVE DATA SOURCES

No.	Sub-indicators	Admin data	Ag/livestock census	Ag surveys	Env. monitoring systems	GIS/remote sensing	Household surveys	Other
1	Farm output value per hectare		X	X		X	X	X
2	Net farm income		X	X			X	
3	Risk mitigation mechanisms	X		X			X	X
4	Prevalence of soil degradation			X	X	X		
5	Variation in water availability	X		X	X	X		X
6	Management of fertilizers	X		X	X	X		
7	Management of pesticides	X		X	X			X
8	Use of biodiversity-supportive practices			X	X	X		
9	Wage rate in agriculture	X		X			X	X
10	Food insecurity experience scale (FIES)			X			X	X
11	Secure tenure rights to land	X		X			X	

Note: Environmental monitoring systems include soil sampling, river flows records, and groundwater abstraction records. GIS/RS includes models,

OPTION 3: CONDITIONS FOR USING ALTERNATIVE DATA SOURCES

- Respects the recommended stratification (farm type i.e. sector, production system, etc.) i.e. data are available at the same level of territorial disaggregation as the farm survey.
- Captures the same phenomenon as proposed by the farm survey.
- Compliant with international/national standards and classifications systems to be internationally comparable.
- Reference year and periodicity homogenous across the sub-indicators.

COMPLEMENTING FARM SURVEY DATA

- Replace farm survey questions, when alternative sources of information are available and respond to the criteria.
- Complement farm survey questions, by providing additional contextual information helpful probe the right answers.
 - This can be done ex-ante or during the data collection by providing contextual information to the enumerators before going to the field.
- Crosscheck the farm survey results to identify any inconsistencies and to ensure its robustness
 - Ex-post information to triangulate and validate survey data after the data collection and analysis has been completed.

THANK YOU

Contact us:

Arbab.khan@fao.org – Arbab Asfandiyar Khan

SDG241-indicator@fao.org