



50x2030
DATA-SMART AGRICULTURE

50x2030 Initiative

February, 5th 2020

LD4D Meeting
Georgieva

Neli

The 50x2030 Initiative

WHAT

An *initiative and partnership* for data-smart agriculture to strengthen agricultural data systems in 50 countries

WHY

To close the agricultural data gap and promote evidence-informed decision making

HOW

By scaling up and adapting two agricultural survey programs (LSMS-ISA and AGRISurvey) to fit countries' needs

WHERE

~30 countries in Africa and the Middle East, ~15 in Asia, and five in Latin America and the Caribbean

WHAT? A Partnership for Data-Smart Agriculture That Combines:

The hard work and commitment of **partner countries:**
50 committed L/LMICS

The technical and operational capabilities of key **multilateral implementers:**
FAO, World Bank, and IFAD

The strategic influence, vision, and resources of **development agencies:**
USAID, Bill and Melinda Gates Foundation, Germany's BMZ, Italy's AICS, and Australia's DFAT

HOW? By Providing Flexible Tools for Varying Country Needs



50x2030 builds upon and adapts:

- FAO's Agricultural Integrated Survey (**AGRISurvey**) program and the World Bank's Living Standards Measurement Study-Integrated Surveys on Agriculture (**LSMS-ISA**), and
- Existing country survey programs

It offers two models:

- An Agricultural Survey Program
- An Integrated Agricultural and Rural Survey Program

At the country level, the 50x2030 survey programs are developed around **country needs, capacity, and the country's potential for technical and financial take-over.**

Agricultural Survey Program

Years	1	2	3	4	5	6	7	8	9	10
Core Agricultural Module	■	■	■	■	■	■	■	■	■	■
Income, Labor, and Productivity-AG	■			■			■			
Production Methods and the Environment-AG		■			■			■		
Machinery, Equipment and Assets-AG			■			■			■	

An example of an Agricultural Survey Program

Survey represents:



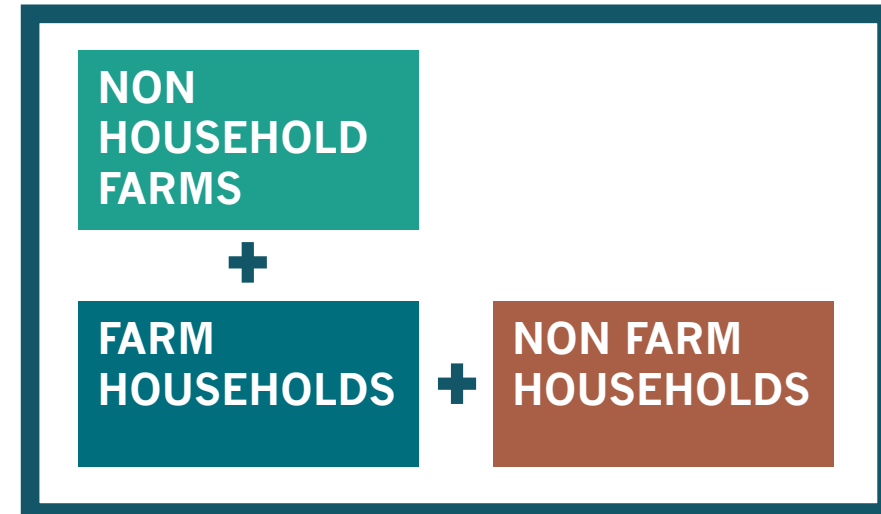
- A continuous approach that joins an **annual** core module and **periodic** rotating modules on key agricultural topics
- Provides fully representative data from both household and non-household (commercial) farms

Integrated Agricultural and Rural Survey Program

Years	1	2	3	4	5	6	7	8	9	10
Core Agricultural Module	■	■	■	■	■	■	■	■	■	■
Income, Labor, and Productivity-AG	■			■			■			
Production Methods and the Environment-AG		■			■			■		
Machinery, Equipment and Assets-AG			■			■			■	
Non-Farm Income and Living Standards	■			■			■			

An example of an Integrated Agricultural and Rural Survey Program

Survey represents:



- Combines the farm-based **annual** agricultural survey program with a **periodic** household-based rural socioeconomic survey program
- Provides more in-depth coverage of socioeconomics (income, employment, nutrition and food security, etc.)

Core module questionnaire

LIVESTOCK

- Number of heads by type of livestock
- Herd's movement
 - Nb of births
 - Nb of animals bought/received/exchanged
 - Nb of animals deaths
 - Nb of animals slaughtered
 - Nb of animals sold/given/exchanged
- Production of livestock products
 - Milk, eggs, other products
 - Destination of livestock products

Main indicators	
✓	Number of heads by livestock types/ per farm
✓	Patterns of births (by type of livestock)
✓	Average number of entries/exits per farm (by type of livestock)
✓	Total milk production by type of livestock
✓	Milk production by type of livestock by heard/ by animal
✓	Total number of animals slaughtered by type of livestock
✓	Total egg production
✓	Egg production by farm/ by hen
✓	Labour input

Core module questionnaire – cont'd

CROP PRODUCTION

- Land use by main land use types
- Crops cultivated (data by crop)
 - Nb of harvests
 - Use of fertilisers and PPPs
 - Stock before the last harvest
 - Production by harvest; area planted/harvested;
 - Irrigation;
 - Mixed cropping
 - Continuous crops - production
 - Destination of crop production by harvest
 - Type of seeds used
- Production/marketing contracts

Main indicators
✓ Land according to main land use types
✓ Area planted/harvested by crop / per farm
✓ Production by crop (and by harvest)
✓ % of crop area on which fertilisers / PPP are applied
✓ % of area irrigated during the reference year
✓ Share of own-use/ selling/ other uses by crop
✓ Share of certified/uncertified varieties used
✓ Crop cultivated with production/marketing contracts
✓ Labour input

Income, labour, productivity questionnaire, ILP (periodically)

Questionnaire Sections	Data items / Indicators	Level of Data Collection
Composite indicators	SDG 2.3.1; 2.3.2 ; 2.4.1; 5.a.1 Ag income Intra-HH decision making CAADP	
..... (crop related)		
Livestock - Ownership	Control over and responsibility for raising livestock	Individual
Livestock – Input Costs	Costs related to raising livestock	Livestock Category
Livestock – Labour	Labour input for livestock production	LS category, worker type, gender
	Labour cost for livestock production	LS Category, worker type
Livestock - Health	Livestock vaccination, parasite treatment, curative treatment	Livestock Category
	Costs related to livestock health	Livestock Category
Aquaculture; Fisheries Production& Labour		
Forestry Production & Labour		
Labor Input by Household Members	Agricultural family labor input	Individual
Labor Input (External Workers)	Hired agricultural labor input	Gender and age
	Free/exchange agricultural labor input	Gender and age
Other Costs	Costs for other items related to agricultural production	Cost Type

Living Standards in 50x2030

ILS questionnaire – main household data and rural development data (periodically)

Questionnaire Section	Level of observation
<i>Household Member Roster</i>	Household, Individual ¹
<i>Education</i>	Household; HH member by gender, age
<i>Labour and time use</i> ²	Individual ¹
<i>Financial Access</i>	Individual ¹
<i>Housing Conditions, incl. Drinking water and sanitation</i> ³	Household
<i>Household Enterprises</i>	Enterprise, Individual ¹
<i>Other Income</i>	Income source
<i>Asset Ownership</i>	Asset type, individual
<i>Shocks and Coping Strategies</i>	Type of shock
<i>Food</i>	Household, Food group
<i>Land Tenure</i>	Parcel

¹ Individual-level data also allows for gender and age disaggregation.

² In line with ILO definitions.

³ In line with UNICEF *Core questions on water, sanitation and hygiene for household surveys*.

Production methods and env. questionnaire

LIVESTOCK PRODUCTION METHODS

- Breeding practices
- Veterinary services/products
- Use of hormones/antibiotics, by type
- Use of traditional medicine
- Transport of livestock – methods and frequency
- Animals used for transport or draft power
- Animal housing, by type of livestock
- Major type of feed used, sources of feed
 - Fodder purchase
- Watering animals
 - Main water sources
 - Problems in watering animals
- Major feeding practices and animal grazing practices

Contributes to the analysis of farm productivity, together with other elements (other sections of this questionnaire and from the core), and to the compilation of AEI

Elements to determine the type of livestock production systems;

Can contribute to productivity analysis

Machinery, equipment , assets questionnaire

MACHINERY AND EQUIPMENT USED

- Manually operated equipment
 - For crop production: type, number, owner (HH-AS)
 - For livestock production: type, number, owner (HH-AS)
- Animal powered equipment
 - Type, number, age, owner (HH-AS)
- Machine powered equipment (by type)
 - Number of machines used
 - owned by AH
 - Average age
 - Number of machines rented
 - Number of machines used under another agreement

Contributes to the analysis of farm productivity, together with other elements (from core and economic modules)

Information on ownership will be a useful element for social and gender related indicators

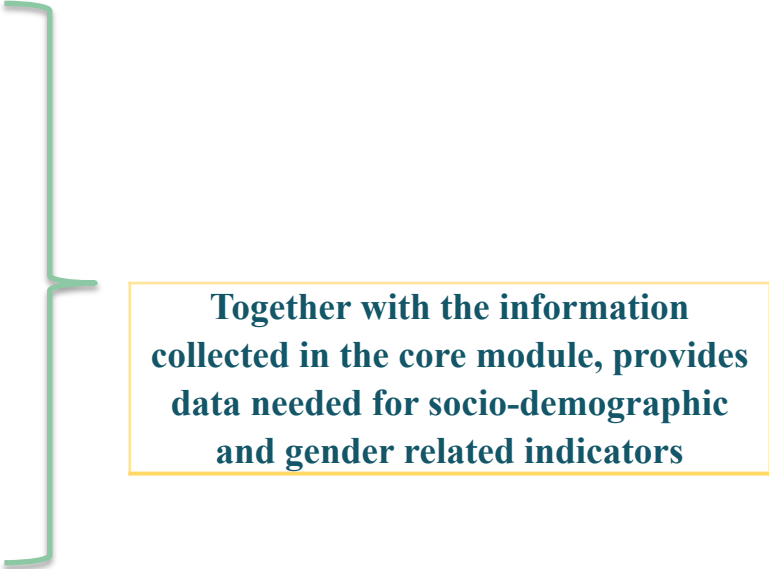
NON-RESIDENTIAL BUILDINGS USED BY THE HOLDING

- For crops – volume/area; type of tenure
- For livestock - area; type of tenure

MEA questionnaire – cont'd

ASSETS OWNED (HH-AS)

- Agricultural land
- Livestock
- Household dwellings
 - Ownership;
 - Main material used
 - Facilities
- Drinking water – access
- Household assets



Together with the information collected in the core module, provides data needed for socio-demographic and gender related indicators

What Does 50x2030 Offer?

DATA PRODUCTION

Survey Program Design

- Questionnaires and manuals
- Cognitive and pilot tests
- Sampling design
- Training of field staff
- Advanced data-collection technologies

Data collection and processing

Data Dissemination

- Tabulation plans and dissemination programs for both macro- and micro-data
- Technical support on data curation, documentation and preservation, data anonymization

DATA USE

Assesses national data ecosystems and develops strategic plans to address most critical gaps

Training of NSO, MoA, and others to better analyse, interpret, and present relevant agricultural data for decision making

Provides **advocacy and training** to decision makers on the value of evidence-informed decision making

Supports **data and knowledge sharing** events and **communication** strategies at the country and regional level

METHODS & TOOLS

Tests new and better methods for agricultural and rural surveys:

- **Integration of survey approaches:** Sampling, thematic coverage
- **Integration of technology, updating of methodologies:** CAPI, key themes
- **Integration with other data sources:** Satellite imagery, administrative data

Develops and promotes new cost-effective, high-quality tools for national survey programs

Country Ownership

Country demand and leadership are prerequisites.

The partner government is in the driver's seat and leads the design and implementation of the survey program, with technical support from FAO, IFAD, and the World Bank.

Cost-sharing, implementation takeover, and data use for policymaking are requirements.

Partner countries commit to **contributing financial and in-kind resources** to their programs from the start, increasing each year until they fund it independently.

Timeline and Next Steps

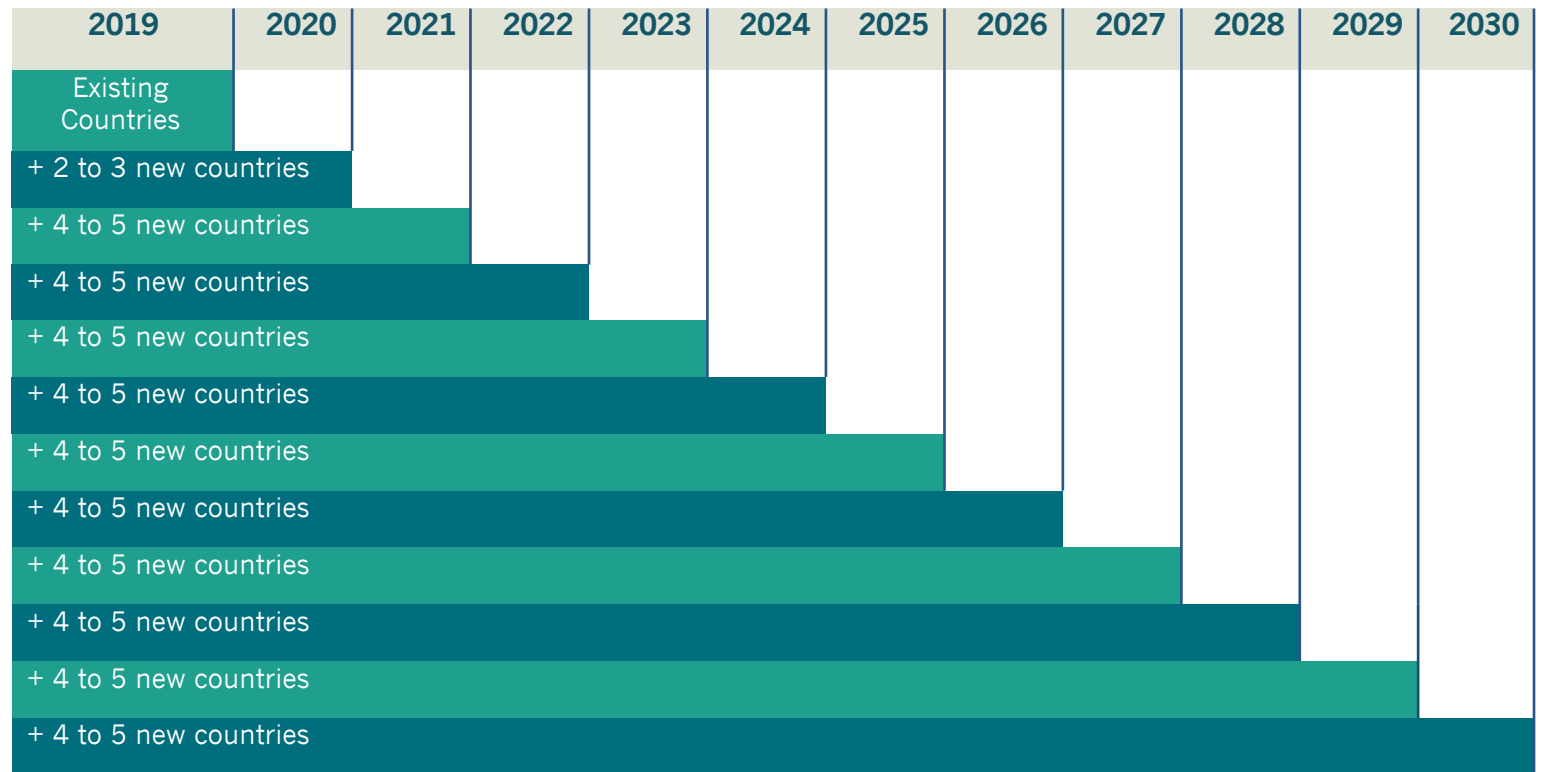
Start date: **JULY 2019**

12 existing countries transitioned into Initiative

New countries onboarded in 2019, based on:

- Country commitment
- Potential for impact
- Financial contribution from national resources
- Income classification
- Regional affiliation

Illustrative Country Roll-out



Thank you!



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