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

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

- 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

<table>
<thead>
<tr>
<th>Years</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
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<th>7</th>
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<th>10</th>
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<tbody>
<tr>
<td>Core Agricultural Module</td>
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<tr>
<td>Income, Labor, and Productivity-AG</td>
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<td>Production Methods and the Environment-AG</td>
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<td>Machinery, Equipment and Assets-AG</td>
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Survey represents:
- **NON HOUSEHOLD FARMS**
- **FARM HOUSEHOLDS**

An example of an Agricultural Survey Program
Integrated Agricultural and Rural Survey Program

- 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
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)

<table>
<thead>
<tr>
<th>Questionnaire Sections</th>
<th>Data Items / Indicators</th>
<th>Level of Data Collection</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Composite indicators</strong></td>
<td>SDG 2.3.1; 2.3.2; 2.4.1; 5.a.1 Ag income Intra-HH decision making CAADP</td>
<td></td>
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<tr>
<td>..... (crop related)</td>
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<tr>
<td><strong>Livestock - Ownership</strong></td>
<td>Control over and responsibility for raising livestock</td>
<td>Individual</td>
</tr>
<tr>
<td><strong>Livestock – Input Costs</strong></td>
<td>Costs related to raising livestock</td>
<td>Livestock Category</td>
</tr>
<tr>
<td><strong>Livestock – Labour</strong></td>
<td>Labour input for livestock production</td>
<td>LS category, worker type, gender</td>
</tr>
<tr>
<td></td>
<td>Labour cost for livestock production</td>
<td>LS Category, worker type</td>
</tr>
<tr>
<td><strong>Livestock - Health</strong></td>
<td>Livestock vaccination, parasite treatment, curative treatment</td>
<td>Livestock Category</td>
</tr>
<tr>
<td></td>
<td>Costs related to livestock health</td>
<td>Livestock Category</td>
</tr>
<tr>
<td><strong>Aquaculture; Fisheries Production&amp; Labour</strong></td>
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<tr>
<td><strong>Forestry Production &amp; Labour</strong></td>
<td></td>
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<tr>
<td><strong>Labor Input by Household Members</strong></td>
<td>Agricultural family labor input</td>
<td>Individual</td>
</tr>
<tr>
<td><strong>Labor Input (External Workers)</strong></td>
<td>Hired agricultural labor input</td>
<td>Gender and age</td>
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<tr>
<td></td>
<td>Free/exchange agricultural labor input</td>
<td>Gender and age</td>
</tr>
<tr>
<td><strong>Other Costs</strong></td>
<td>Costs for other items related to agricultural production</td>
<td>Cost Type</td>
</tr>
</tbody>
</table>
## Living Standards in 50x2030

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

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

<sup>1</sup> Individual-level data also allows for gender and age disaggregation.

<sup>2</sup> In line with ILO definitions.

<sup>3</sup> 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

NON-RESIDENTIAL BUILDINGS USED BY THE HOLDING

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

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
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!