

# A GUIDE TO PROMOTING DATA USE UNDER THE 50x2030 INITIATIVE

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#### I. Targeted Results and the Theory of Change

The main objective of the 50x2030 Initiative is increased and sustained evidence-based decision-making in agriculture in low and lower-middle income countries (L/LMICs), particularly to help achieve Sustainable Development Goal (SDG) 2. To reach this objective, the 50x2030 Initiative implements work under three Components: (1) Data Production, led by the Food and Agriculture Organization of the UN (FAO); (2) Methods and Tools Development, led by the World Bank's Development Data Group; and (3) Data Use, led by IFAD's Research and Impact Assessment Division. The work of the three Components is coordinated by a Program Management Team (PMT) within the World Bank.

In support of the main objective, the Data Use component will focus on achieving two outcomes under the 50x2030 Results Framework:

- Key actors using survey data in more and better ways in partner countries
- More sustainable and strategic agricultural data ecosystems in partner countries.

The Data Use component will achieve those outcomes by supporting countries to implement activities to strengthen the data ecosystem for data use through improved capacities, communication, policies, and practices. Ultimately, those outputs should lead to more evidence-based planning and data-driven policies, and investments both inside the governments and in the private sector.

The Initiative can only help facilitate progress towards achieving SDG targets 2.3 and 2.4 if the data from the surveys is used and applied to solutions across the agricultural and food security sectors. The Initiative focuses on data use to ensure that (i) Decision Makers have the needed motivation, access, and capacity to use the 50x2030 survey data and that (ii) the agricultural and rural data produced by national statistical offices and researchers aligns with the needs of Decision Makers. The 50x2030 Initiative defines the "Decision Maker" as the final consumer who applies the data to answer questions and solve problems relevant to their job. In practice, Decision Makers would include government staff from the Ministry of Agriculture and other relevant ministries (e.g. managing directors, permanent secretaries, ministers, etc.), staff of development organizations, business owners and staff, and other national, regional, and international stakeholders. The inclusion of a Data Use component recognizes that supply-side efforts focused on data production alone are insufficient to increase evidence-use in decision-making.

Throughout the data cycle, data is acted upon by three main types of stakeholder: Data Producers, Data Intermediaries, and Decision Makers (see Figure 1 at right). A **Data Producer** is an individual or entity that produces data through the steps of collection, curation/preparation, and dissemination. In 50x2030, the Data Producer collects survey data, generating the datasets and survey reports which can be utilized by Data Intermediaries for further analysis or Decision Makers to answer questions

and inform decisions. Examples of Data Producers include a National Statistical Office (NSO) carrying out

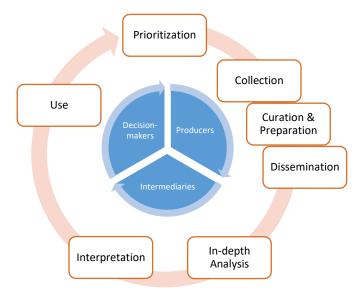


Figure 1: Stakeholders and role in Basic Data Cycle

an integrated agricultural and rural survey, creating a summary report, and disseminating survey microdata sets, or a Ministry of Agriculture (MOA) statistical unit carrying out an agricultural production survey and producing a summary report and microdata set for users.

**Data Intermediaries** are individuals or entities that take existing summary reports, summary tables, and microdata sets and add value to them by conducting analyses and interpreting them to answer questions and possibly make recommendations for action. Data intermediaries act like brokers, taking the data generated by Data Producers and turning it into information and evidence through an analytical or research process. Examples include MOA analysts producing policy briefs using survey data on agricultural production, journalists using the data to report on national policies for a newspaper article, an academic researcher conducting analyses for a paper on the impacts of a specific policy, and an analyst at a development organization using survey data to understand the relationship between agricultural production and food security.

A **Decision Maker** is an individual or entity that applies the data to answer questions and inform decisions related to programs, policies, or investments. Examples include: MOA officials researching and designing policy; Ministry of Finance staff drafting budget requests or allocations; a development organization deciding which districts might benefit the most from new farmers' organizations; and local business owners determining which commodities they might want to expand into the following year.

These three types of stakeholders all carry out essential functions within the **data ecosystem**. The Initiative builds on the Open Data Institute's¹ definition of data ecosystem as the <u>community of actors</u>, <u>stakeholders</u>, <u>and entities</u> who engage with data, the <u>data assets</u> (datasets, data products, platforms, tools, technologies) with which they interact, and the <u>rules</u>, <u>norms</u>, <u>and structures that govern those interactions</u> (policies, cultures, organizational structures, etc.).

Numerous factors must be present within the data ecosystem so that data will be used. Inversely, the absence of those factors results in the primary constraints prohibiting data use in any situation.

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<sup>&</sup>lt;sup>1</sup> Open Data Institute (2018) Mapping Data Ecosystems.

The 50x2030 Initiative uses the Data Use Framework in Table 1 to understand, examine, prioritize and address the enabling factors, which can also become the most binding constraints if absent in a particular context.

Table 1: The 50x2030 Data Use Framework

Factors that lead	Definition	Sub-factors
to Data Use		
		Decision Makers believe that data-
Demand	Decision Makers want to use data to	based decisions are beneficial
Demana	make their decisions	Political and cultural beliefs and
		norms enable data use
Expertise	Decision Makers know what data they	
Expertise	need and how to use it	
Availability	Data is produced and exists (may not be	
Availability	accessible/available to users)	
	Data Intermediaries and Decision	
Access	Makers have access to (and can obtain)	
	the data that is produced	
	Data Intermediaries and Decision	
Awareness	Makers know the data is available and	
	accessible	
	The data is relevant and useful to the Decision Makers for the decisions they need to make	Data is of the type needed for
		targeted decisions (useful
		variables, disaggregation,
Utility		periodicity, etc.)
Othicy		Data is in the necessary formats
		and products
		Information (analyzed data) is in
		needed formats and products
		Data quality based on producer
		capacity
	Data Intermediaries and Decision	Absence of political interference in
Trust	Makers believe the data is reliable,	one or more stages within the
	useful, and accurate	data cycle
		Cooperation with other data
		sources (not competition)

These factors are all embedded in the data ecosystem and the communication exchanges or practices between Data Producers, Data Intermediaries, and Decision Makers. All factors must be present to achieve optimal data use, yet, in reality, the presence of these factors varies greatly in any specific context. Upon identifying the degree to which these factors are present or absent in partner

countries, the Data Use component will address the most binding constraint by working to build a stronger data ecosystem and by improving data sharing and communication practices.

A strong data ecosystem means data needs are being met through data assets and collaborative interaction between Decision Makers, Data Producers, and Data Intermediaries, and that, ultimately, data is being applied appropriately to make decisions. Data Use activities will be designed to increase or enhance **demand** for the data, improve its **utility**, and build **trust** between users and producers, thereby strengthening the data ecosystem.

Good data sharing and communication practices by the partner governments are essential to enable ecosystem actors to use the survey data in more and better ways. That often implies changes in data policies, data management tools and platforms, and stronger capacity to manage and share data. The Initiative will implement data-use activities to promote extensive access to the survey data and ensure Decision Makers are aware of the survey data and its uses. Both the Data Production and Data Use components will implement coordinated activities to improve access and awareness, through work with Data Producers, Data Intermediaries, and Decision Makers. Data availability will be addressed by the Initiative, but solely under the Data Production component.

The work under the Data Production and Methods and Tools Development components also directly and indirectly supports the work of the Data Use component. It aims to improve various aspects of the data systems related to the seven factors identified in the Data Use Framework.

#### II. Activities to Promote Data Use

Once a partner country is onboarded to the 50x2030 Initiative and a joint inception mission has taken place, the Initiative's Data Use component will begin activities in the country, in the following sequence:

- **A.** First, an **Agricultural Data Ecosystem Mapping and Report** will be created to inform the design of all future activities.
- **B.** Based on the findings of the Data Ecosystem Mapping exercise, country stakeholders will **jointly develop a multiyear approach** to promote data use, which will be included as a section of the broader 50x2030 Program Implementation Plan (PIP).
- **C.** The Data Use activities under the data use section of the 50x2030 PIP will include **technical assistance**, **training**, **and workshops**, designed to strengthen the data ecosystem, improve data sharing and communication practices, and monitor data use.

All of these activities will be designed and implemented using the Data Use Framework to achieve the desired outcomes of the Initiative. The implementation method for those activities is below.

#### A. The Agricultural Data Ecosystem Mapping and Report

The Agricultural Data Ecosystem Mapping and Report is a type of assessment process that identifies the components of the data ecosystem (actors or stakeholders, data assets, and the structures that govern them), how they interact, and where enablers and constraints to data use reside in it. The

mapping exercise employs a visual technique for understanding the actors, relationships and data flows in the particular country and will be accompanied by a written narrative that identifies key characteristics and findings related to the ecosystem. The process of drawing the main elements of the map enhances (i) the understanding of where important value exchanges happen (e.g., in the supply of data from one actor to another, in the use of data, and in the sharing of data within professional and social networks, etc.), and (ii) what kind of strategies or support might be needed to enhance effective collaboration between actors and more efficient and effective flows of data. Furthermore, the mapping will use a participatory approach that engages all relevant and key stakeholder groups for the 50x2030-supported survey program, specifically the NSO and the Ministries of Agriculture, Finance, Planning and any other relevant government agency. Information from surveys and interviews with key stakeholders is used to generate the map, followed by collaborative workshops to validate the draft. As such, the map emanates from the thoughts, concerns, and understandings of the stakeholders within the data ecosystem, using a process whereby those stakeholders exchange ideas and knowledge in a constructive way. The final product serves as a communication tool to support engagement and buy-in across the ecosystem.

In each country, mapping the agricultural data ecosystem will entail the following activities in the order below, although overlap is probable and desirable. They will be conducted by Initiative staff or Initiative-employed consultants:

- 1. **Conduct a desk review.** Research and draft a brief summary of existing documentation to create an Agricultural Data Profile for the country that includes:
  - a. National statistical capacity, technology, and digital infrastructure;
  - b. Data policies and laws within the country;
  - c. Other (non-governmental) data capacity in agriculture, research, or statistics;
  - d. The basic political situation and trends that might affect data production and use in the country;
  - e. Agricultural (and rural) data needs in the country, particularly those related to relevant national agricultural policy frameworks and international/regional monitoring frameworks;
  - f. Existing and planned data sources related to those agricultural and rural data needs (i.e. administrative data, satellite-derived data, etc.), including for regional and international data monitoring and reporting requirements;
  - g. The agricultural and rural data needs which could be met by the agricultural survey if designed accordingly;
  - h. Data Producers of the identified data sources;
  - i. Potential or presumed Data Users in the country and for the country, including national statistical office staff, line ministry analysts, line ministry policymakers, academics, civil society organization staff, development organization staff, agribusiness owners and staff, smallholders, and more.
- 2. Adapt draft questionnaires and interview protocol for stakeholder surveys and interviews. The Initiative's Data Use component will work from a standardized questionnaire (see Annex 1), aligned to the Data Use Framework and its seven factors, and will adapt it based on the country context, as needed. The interview protocol (see Annex 2) will be semi-structured and adapted to country context. The protocol is flexible and can be adapted for respondents

- who have not responded to the survey or those who have answered the survey questions, building on survey responses.
- 3. **Develop brief plans for country stakeholder engagement.** Plans will include a list of proposed stakeholders/respondents and a timeline for the interviews and workshops among any other considerations needed for the country.
- 4. Conduct a written survey among stakeholders. Surveys will be designed to yield both qualitative/open-ended and quantitative/categorical data, using the country-specific questionnaire. The quantitative data will inform indicators under factors and sub-factors of the Data Use Framework, and identify the most binding constraints to data use based on those factors. The qualitative data will support the Agricultural Data Ecosystem Mapping exercise and help identify all of the actors, entities, data assets, enablers and constraints to data use within the system. Through the written survey, the Data Use component will seek to engage a broad and representative sample that collects data from the primary stakeholder groups: government agencies, including the NSO, MOA, and other relevant ministries; development organizations; research institutes and universities; journalists or members of the media; and the private sector. Respondents will vary in rank, from mid-level to high-level, and technical capacity related to data. Respondents will represent Data Producers, Data Intermediaries and Decision Makers in order to understand the perspectives of all groups. The sample will be purposive and include 40-60 respondents, depending on the size and complexity of the stakeholder groups.
- 5. **Conduct key informant Interviews.** The interview process will coordinate with the written surveys to elaborate more qualitative and detailed information about data exchanges that happen or constraints that hinder them. The interviews will take place in person or via a videoconferencing platform, depending on the context and travel conditions. In all cases, Initiative or contractor staff will record the verbal interviews for transcription, if the respondent agrees, to ensure optimal qualitative analysis. The interviewing process will also seek to create a purposive sample that represents the various stakeholder groups under the categorization above: government agencies, including the NSO, MOA, and other relevant ministries; development organizations; research institutes and universities; journalists or members of the media; and the private sector. Respondents will be Decision Makers, Data Intermediaries, and Data Producers in order to understand the perspectives of all groups, although the majority will be Decision Makers. Key interviewees will be identified through the desk review process and from the written survey responses. The sample size is expected to be 12-20 interviewees, although the final sample size will be determined when the data saturation point is reached, meaning no new information is yielded from the interviews. Note, the interview process could start while the survey responses are still being received.
- 6. Create a preliminary Agricultural Data Ecosystem Map using data from the desk review and interviews. In each country, a preliminary map will be developed that identifies the actors and entities in the system (Data Producers, Intermediaries, and Users), the data assets (datasets, data products, platforms, tools, technologies) with which they interact, and the constraints to data use.

- 7. Hold collaborative workshops (virtual or traditional) to validate the preliminary Data Ecosystem Map. Consulted interviewees will be brought together through a virtual or inperson format to examine the preliminary ecosystem mapping and findings. Jointly, the Initiative and the country staff will work through the mapping and findings and ensure that they reflect the main (majority) perspectives and that notable deviations in views, if any, will be noted in the final report. Beyond ensuring that the mapping and report are accurate, this workshop and collaborative discussion provide a means for Decision Makers, Data Intermediaries, and Data Producers to discuss the issues, build understanding and rapport, and thereby begin to strengthen the ecosystem.
- 8. **Create the final Country Data Ecosystem Maps and Reports.** A final Map and Report will be drafted for reach country that includes:
  - a. The Country Profile for agricultural data, including all components listed under the Desk Review.
  - b. The Current-State Ecosystem Map, which visualizes the relevant actors/entities engaging with the survey data, the specific data assets related to the survey, data flows, and any constraints to interactions.
  - c. A Future-State Ecosystem Map, which shows what an ideal data flow could look like, including barriers.
  - d. An Examination of the various constraints to data use assessed against the Data Use Framework.
  - e. Recommendations for activities and actions to overcome the most serious constraints to data use (general and country-specific).
  - f. references for all documents, resources, and processes used to create the final report.

In each country, the full Agricultural Data Ecosystem Mapping and Report process will take approximately two to three months. The timeframe may fluctuate based on whether activities take place virtually or in-person and other context-specific factors such as the availability of country stakeholders and public holidays.

#### B. Jointly-designed Approach: The Data Use section of the Program Implementation Plan

As stated above, country stakeholders will jointly develop a multiyear approach to promote data use that will be included as a section of the broader 50x2030 PIP. Initiative staff will work with the MoA, the NSO, and any other relevant government organizations through a participatory process to develop the Data Use section of the PIP. This will delineate the specific activities, timeline, and budget related to Data Use activities for the full period of the program.

Following the release of each country's Agricultural Data Ecosystem Mapping and Report, the Initiative will engage a number (10-20) of key expert stakeholders, identified through the interview process and representative of the relevant organizations, to formulate the Data Use section of the PIP based on the findings. The Initiative will facilitate the development of the Data Use section of the

PIP using the Data Use Framework (as a conceptual guide) and the Delphi method (as a negotiation approach) to consolidate ideas and build consensus among expert stakeholders.

The Delphi method is a consensus-building approach developed by the Rand Corporation<sup>2</sup> in the 1950s that engages a limited set of experts in a series of questionnaires, to which they anonymously respond and then receive feedback in the form of a statistical representation of the "group response." The questionnaire process repeats, each time reducing the range of responses based on the previous outcomes, until consensus is achieved. This approach will help the refine the priorities for reducing constraints to data use, resulting in a feasible plan that has the buy-in of the consulted experts and their organizations. 50x2030 will use the method to guide participants to prioritize the factors to address and the activities best suited to address them. For example, questionnaires will help participants choose the factors they think are most critical. Over a series of questionnaires, priorities will be identified as options are reduced and those receiving little support are dropped. The ultimate result should be a smaller set of priorities, such as building Expertise, improving Access, and increasing Trust by working to depoliticize how data are used.

The Delphi method will either be conducted remotely, using electronic questionnaires and videoconferencing, or in person, using paper or electronic questionnaires and in-person discussion of the results. If undertaken remotely, the method will take approximately two to three weeks. If inperson, most of the method will take place during a one- to two-day workshop.

After the constraints and solutions are prioritized and determined through the Delphi method, Initiative staff or consultants will develop a draft section of the PIP that addresses the key constraints and incorporates the desired solutions. Those desired solutions will be the Data Use activities that the Initiative and the country will implement under the Data Use component. The draft section of the PIP will be circulated, reviewed, and revised, as needed, until it is finalized and endorsed by the stakeholders.

The Data Use component will engage the Initiative's Program Management Team (PMT) and Data Production component staff to ensure the plan corresponds to other workplans under development, particularly to activities related to the Data Production component. PMT and Data Production staff will be encouraged to join all meetings or written processes to develop the Data Use section of the PIP.

#### C. Data Use Activities

The activities implemented in the country and delineated in the Data Use section of the PIP will be designed to (i) strengthen the data ecosystem; (ii) improve data sharing and communication practices; and (iii) monitor data use among stakeholders to provide a feedback loop for constant improvements.

The activities designed to **strengthen the data ecosystem** will aim to enhance the relationships and interactions between Decision Makers, Data Intermediaries, and Data Producers by increasing or enhancing **demand** for the data, improving its **utility**, and building **trust** between them. Specific

<sup>&</sup>lt;sup>2</sup> https://www.rand.org/topics/delphi-method.html

activities will vary by country, based on identified constraints, and include a combination of actions such as:

- Training for Data Producers in basic statistical analyses and to develop easy-tounderstand reports for needed audiences.
- Training for Data Intermediaries to conduct detailed analysis and present their findings to Decision Makers for specific policy or programmatic needs.
- Training for Decision Makers to understand, interpret, and apply data to decisions.
- Collaborative workshops to share information between Data Producers, Data
   Intermediaries, and Data users and build relationships and trust among partners
- National-level sensitization workshops and seminars for Decision Makers to improve the culture of using data for decision-making
- Technical assistance and training on data use monitoring methods to yield products that demonstrate how data are being used and the outcomes their use generates.

**Activities intending to improve data sharing and communication practices** will seek to enhance evidence-informed decision making by improving **access** to the survey data and ensuring Decision Makers are **aware** of the survey data and its possible uses. Specific activities will include:

- Technical assistance to strengthen data sharing and communication technologies, platforms, and practices. This will include recommendations and facilitation of key technologies, platforms, and processes that could address identified constraints to access.
- Technical assistance and guidance on needed policy reforms for data sharing.
- A global annual conference and regional conferences for dissemination and advocacy (not country-specific, but countries' contributions can be planned). These will be coordinated with similar initiatives or programs as far as possible.

Activities for **data-use monitoring** will include forms of technical assistance to design a monitoring framework and corresponding methods to track data use. Monitoring activities will form a feedback loop to inform stakeholders on the current status of the data ecosystem, data sharing practices, whether actions to promote data use are generating desired results. In-country monitoring should align with the indicators in the 50x2030 Results Framework as far as possible.

Data Use activities will need to be developed and tailored according to the countries' needs. The groupings above demonstrate the types of activities that can be tailored and designed to address the targeted outcomes and constraints. As such, all possible activities will come in the form of technical assistance (expert consultants and guidance); trainings; workshops; and conferences.

While the specific activities can only be defined after the Agricultural Data Ecosystem Mapping exercise is completed and the constraints well understood, the general parameters and characteristics of those activity types are:

#### a. Technical Assistance

Technical assistance will be provided primarily in the form of expert guidance and identification of solutions for data sharing practices and data policies. The Initiative will identify experts to examine

countries' data accessibility constraints, and identify actions to strengthen data sharing and communication technologies, platforms, and practices. This will include recommendations and facilitation of access to key technologies, platforms, and processes (see Section D below for examples), such as linking country stakeholders to technology providers and organizing demonstrations or trainings on desired platforms and software. Technical assistance and guidance may also be provided to recommend and help draft the needed policy reforms for improved data sharing. The aim will be that the identified experts will deliver all technical assistance in-person, or at least following on an in-person mission to the country, if travel situations allow.

#### b. Training

Training will be designed, organized, and implemented for Data Producers, Data Intermediaries, and Data Users. Training will be delivered in-person or virtually depending on the needs, culture, and capacities of participants and on the nature of the training itself. As far as possible, it will bring them together to help coordinate their needs and promote cross-fertilization of skills development. Again, the particular topics, skill focus, duration, and number of participants will vary by country, but the Initiative will seek to standardize certain training modules and approaches as they are tested, to better understand the most effective practices.

Training for Data Producers will aim to build capacity among statisticians working directly on the surveys to generate relevant and useful information and products necessary to meet specific policy or programmatic needs. Many trainings for Data Producers would be conducted under the Initiative's Data Production component in coordination with the Data Use component. Training for Data Producers that specifically aim to promote Data Use will focus on improving skills and knowledge relevant to communicating and presenting data products as well as approaches to user engagement. Possible areas of focus might be visualization techniques or statistical software functions. An example would be a two-part training on Communicating Survey Results. The first part would include a three-day training with NSO staff on developing brochures, presentations, and flyers to share survey data with a variety of audiences, including instruction on using STATA or other software to visualize data findings in the form of infographics. This first training would be followed by a one-month period for trainees to put their skills in practice. Following this, a second, one-day training would be conducted with the same trainees to present their products and discuss their possible uptake and application.

Training for Data Intermediaries would focus on building the capacities of analysts, researchers, economists, and other data scientists to analyse the survey microdata and prepare analytical products and reports for Decision Makers related to specific policies or program needs. An example of training for Intermediaries would be a five-day training course that brings together staff from the Ministry of Agriculture (MOA), Ministry of Planning (MOP), and a local university to analyze livestock data from a recent survey and prepare analytical reports to develop or evaluate a livestock policy. A policy of increasing meat or milk production requires analysis of many factors, such as: breed of animals; animal feed; structures for animals; practices by farmers (disaggregated by sex); availability of veterinary services; sex-differentiated characteristics of livestock farmers; availability of vaccines; and quality of livestock inputs, such as medicines. Training would include guidance on the production of a system of reports necessary for the development and evaluation of policies. Training would also cover techniques to examine other specific issues such as the use/effects of livestock insurance among smallholders or the regions in which certain livestock diseases are most impacting farmers. The training would teach analytical techniques to examine and interpret the data and

present it as information in ways that MOA and MOP Decision Makers can use in livestock policy and program development.

Training for Decision Makers would be designed for different categories of users, including government agencies, development organizations, and the private sector, to understand, interpret, and apply data to decisions. The priority category of users would be from the first category, particularly governmental staff from Ministries of Agriculture, Economy, Gender and Women, Finance or Planning. Training sessions would focus on priority areas identified in the Ecosystem Mapping and Implementation Plan. An example would be a two-part training in Statistical Literacy and Applying Data in Decision Making for mid- and senior-level management staff in the MOA and other line Ministries. The training would build participants' skills and knowledge in basic survey concepts, types of statistical analyses, and understanding of/how to apply descriptive and parametric statistics. The structure would include a one-week course, a three-month practical application period, and a one-week follow-up course. A similar type of training program could be developed and offered with private sector or development partner Decision Makers to ensure they are aware of and know how to use the survey data.

#### c. Workshops

Workshops will be organized and implemented to bring together stakeholders to strengthen collaboration, build connections, develop joint plans or actions, and encourage data use through advocacy. Workshops will typically be one- to two-day event with 20–80 participants that engage Decision Makers, Data Intermediaries and Data Producers from the following institution types: staff from government ministries; universities, institutes and research councils; the media and journalists; and NGOs. They can be used in cases when formal, longer-term training or technical capacity building is not needed and when larger, more formal conferences are not necessary. These workshops will also be necessary to expand the networks of data users beyond just the agriculture sector to include partners working on gender and women's issues, environment, climate change, and other critical development areas.

In early stages of the Initiative, when there are fewer country partners, most activities will be developed at the country-level. As the Initiative grows and more countries join, some trainings and workshops may be developed jointly within a region, with other regional partners specializing in data and statistics, to strengthen local/relationships and institutions, leverage synergies between countries, and find cost-efficiencies in implementation.

#### d. Conferences

The Data Use component will carry out larger, more formal conferences at the global and regional levels to promote learning across country-level experiences and provide global and regional insights into the measurement and achievement of SDG 2.3 and 2.4, primarily among policymakers.

The **Global Annual Conference** will aim to (i) demonstrate how the survey data has and can be used to answer development questions and develop policy, programmatic, and investment solutions and (ii) showcase key examples of the application of the survey data in partner countries. A secondary aim of the Conference is to create networks of Decision Makers among regions of the world that face similar challenges in achieving food security and sustainable agricultural growth. Conference participants will primarily be Decision Makers from partner country government agencies and ministries, civil society organizations, donor/development organizations, academic institutions, and

private sector organizations. The Initiative will ensure that all partner countries and all sectors described above are represented. The number of participants will range between 100–250, including Initiative staff, with the numbers likely to increase as the Initiative grows and more countries are included.

Additionally, a series of **Regional Conferences** will be conducted to promote the dissemination of useful practices and advocacy among policymakers within the six World Bank subregions covered by the Initiative: Latin America and the Caribbean (LAC); East Asia and the Pacific (EAP); Central Asia; South Asia; the Middle East and North Africa (MENA); and Sub-Saharan Africa (SSA). Regional Conferences take place on a multi-annual basis, across regions and will be organized strategically, based on the regional distribution of onboarded Initiative countries. Staff working on the Data Use component will engage partner countries to leverage their experiences and plan their contributions to the Regional Conferences.

#### D. Tools to Promote Data Use

Many tools that can support the promotion of data use already exist, including computer software and online platforms. The 50x2030 Initiative will assist partner countries to identify the best tools to address the priority constraints identified in their respective Data Ecosystem Mapping exercises. While not exhaustive, the table below provides an illustrative list of tools that can be employed for promoting data use in 50x2030 countries.

Table 2: Illustrative List of Tools that Can Promote Data Use

Tool	Possible Usage and/or Description
Advanced Data Planning Tool (ADAPT) by PARIS21	ADAPT is a free, cloud-hosted, multilingual and consultative data planning tool that helps Data Producers adapt their data production to priority data needs. Functions include promoting the reuse of data and the quality assessment of data sources; reinforcing a co-ordinated data infrastructure in a national or regional context; enabling detailed data demand and supply analysis; monitoring of data plan activities, including costing and budgeting; producing a wide range of reports to inform decision-making.
Africa Information Highway (AIH) by African Development Bank	The Africa Information Highway (AIH) was developed by the Statistics Department of AfDB as part of the Bank's statistical capacity building program (SCB) in Africa. AIH is a mega network of live open data platforms (ODPs) electronically linking all African countries and 16 regional organizations. The overall objective is to significantly increase public access to official and other statistics across Africa, while at the same time supporting African countries to improve data quality, management, and dissemination.
Food and Agriculture Microdata Catalogue (FAM) by FAO	FAM provides and promotes public access to datasets collected through farm and household surveys which contain information related to agriculture, food security, and nutrition. Its aim is to be a one-stop-shop containing metadata on all agricultural censuses and surveys that are publicly available as well as provide direct access and/or links to the microdata.

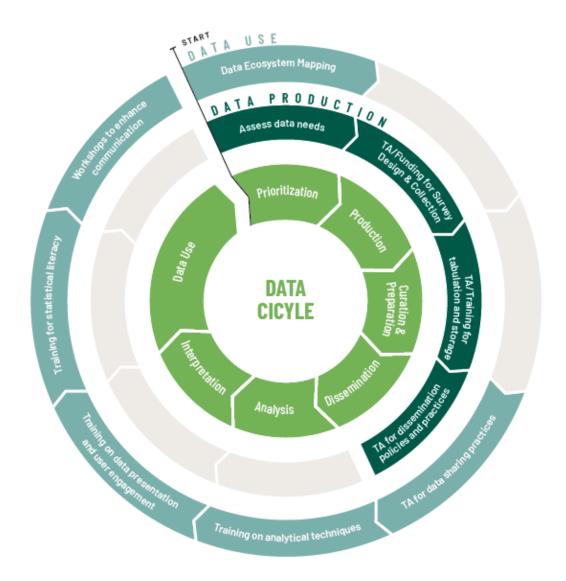
	Organizations which collect relevant data are also highly
	encouraged to submit datasets for dissemination through FAM.
QGIS	QGIS (until 2013 known as Quantum GIS) is a free and open-
	source platform desktop geographic information system (GIS)
	application that supports viewing, editing, and analysis of
	geospatial data. The application could be used to visualize survey
	data by geographic disaggregation.
ReSAKSS Country eAtlas	The RCeA is a GIS-based data exploration platform designed to
	help policy analysts and policymakers access and use high-
	quality and highly-disaggregated data on agricultural, socio-
	economic and biophysical indicators to guide agricultural policy
	and investment decisions.
Statistical Software	These multipurpose data analysis and statistical software
Packages, including R, SPSS,	packages can be used for a range of needs such as data
<u>Stata</u>	visualization and advanced analytical functions. They offer a
	wide array of estimation and statistical features that apply both
	standard and advanced statistical methods and techniques. They
	enable data visualization techniques which can be printed,
	published, and reproduced. R is a free software; SPSS and Stata
	have associated costs.
<u>Tableau</u>	Tableau is online data visualization software that has both free
	(Tableau Public) and paid versions. It is described as a business
<u>Tableau Public</u>	intelligence system that helps companies visualize and
	understand their data.

#### III. Interaction and Synergies with 50x2030 Data Production Activities

Promoting the use of data requires addressing all of the factors identified in the Data Use Framework, which are linked to the various stages of the Data Cycle. While Data Use is the end objective, the Data Use activities will need to be designed to improve the demand, availability, access, awareness, utility and trust for data so that data will be used. As such, the activities and actions under the Data Use Component will interact with, parallel, and build from activities implemented under the Data Production Component.

Figure 1 shows where activities under the Data Production and Data Use components fall in the Data Cycle. The rust-colored arrows show the links in the Data Cycle and the Data Production activities (green arrows) and Data Use activities (blue arrows) that relate to each of those links.

Figure 2. Diagram of the interaction of Data Use and Production Activities along the Data Cycle



#### Annex 1

### Data Ecosystem Survey Questionnaire

This survey will collect information related to the use of agricultural data in your country. Your responses will be kept confidential and will be reviewed along with reports from multiple respondents.

There are five sections of the questionnaire addressing the following topics:

- 1. Current use of data
- 2. Data demand and expertise
- 3. Data availability, awareness, and access
- 4. Data utility
- 5. Trust in data

\* Required

Please provide some general information about yourself and your organization below to assist in summarizing the survey results.

If you wish to participate beyond the survey for potential clarifications and potential follow-up activities and projects, please provide your name and email address.

1.	Respondent Name: *
2.	Respondent Organization: *
3.	Respondent Email Address (Optional):
4.	Which of the following best describes your role? *
	Mark only one oval.  Data Producer: An individual who produces data through the steps of collection, curation/preparation, and dissemination. Data Producers work with raw survey data, generating

	datasets and survey reports which can be utilized by Data Intermediaries for further analysis or Decision Makers to answer questions and inform decisions.		
	tables or microdata sets	(researcher or analyst): An individual who takes existing summary and adds value to them by conducting analyses and interpreting them do possibly make recommendations for action. These individuals take the by Data Producers and turn them into information and evidence rocess.	
		n individual who applies the data to answer questions and inform grams, policies, or investments.	
	urrent use of ata	The following questions address the topic of if and how data is currently used.	
5.	_		
6.	Please describe ways i country.	n which you use agricultural and rural data produced in your	
7.	If you are not able to u	use data but want to, what support or interventions would help	

D ar	ata emand nd xpertise	The following questions will address the topic of demand for data, the extent to which decision makers and data users want data to use to make their decisions, and whether they know how to use it.
8.	What	agricultural or rural data do you need most for your work?
9.	To wh	at extent do you depend on accurate agricultural and rural data to do your job
	Mark o	nly one oval.
		My work must be informed by accurate data to be done well
		Accurate data is useful for my work, combined with other factors like experience and political priorities
		Experience, intuition, and political priorities are as important in my work as accurate data
		Experience, intuition, and political priorities are usually more helpful in my work than accurate data
		I don't need data to do my job well
10.	agenc	trongly do you agree or disagree with the following statement: Government ies within the country support evidence-informed approaches when developing es, national plans, and strategies.
	Mark	only one oval.

		Strongly Disagree
		Disagree
		Neither Agree nor Disagree
		Agree
		Strongly Agree
		Do not know
11.	How w	vell can you understand the agricultural and rural data produced in your y?
	Mark c	only one oval.
		I understand the data perfectly and can apply it in all situations
		I can understand and use most of the data I receive
		I understand and can use some of the data I receive, but there are some formats or statistics I don't understand or know how to apply
		I really do not understand and cannot use much of the data I have, but I would like to
		I do not understand and cannot use much of the data I have, but it does not matter
Data	. A 11 - 1	
	ı Availal	
_	ess, and	
AWa	areness	The following questions will address the issue of data availability, awareness and access.  Availability relates to data that is produced and exists but it does not necessarily mean it is available to Decision Makers and data users. The section on data awareness evaluates the extent to which Decision Makers or Data Users know the data is available and their
12.	How m	access to it.  nuch of the agricultural or rural data needed by you is produced in the country?
	Mark c	only one oval.

Most of the data Some of the data Almost none of the data None of the data What agricultural or rural data should be produced in your country that is not being produced?  Which agricultural and rural data sources are available to you to use in your work? (If "Other" is selected, please enter a description in the space provided)  Check all that apply.  Agricultural surveys Rural household surveys Agricultural census Population/household census
Almost none of the data  None of the data  What agricultural or rural data should be produced in your country that is not being produced?  Which agricultural and rural data sources are available to you to use in your work? (If "Other" is selected, please enter a description in the space provided)  Check all that apply.  Agricultural surveys  Rural household surveys  Agricultural census
What agricultural or rural data should be produced in your country that is not being produced?  Which agricultural and rural data sources are available to you to use in your work? (If "Other" is selected, please enter a description in the space provided)  Check all that apply.  Agricultural surveys  Rural household surveys  Agricultural census
What agricultural or rural data should be produced in your country that is not being produced?  Which agricultural and rural data sources are available to you to use in your work? (If "Other" is selected, please enter a description in the space provided)  Check all that apply.  Agricultural surveys  Rural household surveys  Agricultural census
Which agricultural and rural data sources are available to you to use in your work? (If "Other" is selected, please enter a description in the space provided)  Check all that apply.  Agricultural surveys  Rural household surveys  Agricultural census
"Other" is selected, please enter a description in the space provided)  Check all that apply.  Agricultural surveys  Rural household surveys  Agricultural census
"Other" is selected, please enter a description in the space provided)  Check all that apply.  Agricultural surveys  Rural household surveys  Agricultural census
Administrative data  Sector Reports  Other:
Where or how are those data sources currently published? (national government websites, other organizational websites, online data repositories, journals, etc)

	Mark only one oval.
	Strongly Disagree
	Disagree
	Neither Agree nor Disagree
	Agree
	Strongly Agree
17.	How much access do potential Data Users and Decision Makers have to existing agricultural or rural data produced in your country?
	Mark only one oval.
	Users can get all of the data produced
	Users can get most of the data produced
	Users can get some of the data produced
	Users do not get most of the data produced
	Users get none of the data produced
18.	How strongly do you agree or disagree with the following statement: In my country, there are adequate procedures that govern access to agricultural and rural data and adequate channels for disseminating and accessing that data.
	Mark only one oval.
	Strongly Disagree
	Disagree
	Neither Agree nor Disagree
	Agree
	Strongly Agree
	Do not know
19.	How easy is the process to get the data you want to access?

Mark only one oval.

Very Easy	
Easy	
Difficult	
Very Difficult	
20. What are the barriers that complicate access to agricultural and rural data produced	
in your country? (If "Other" is selected, please enter a description in the space	
provided) Check all that apply.	
No barriers exist	
Financial	
Technical	
Administrative	
Legal	
Other:	
21. If any of the barriers were selected above, please provide details on how access to	
agricultural and rural data produced in your country is restricted.	
Data Utility  The following questions will address the topic of data utility. Utility involves data being and useful to Decision Makers or Data Users in their work.	relevant
22. Is the agricultural and rural data available to Data Users currently insufficient or	
inadequate in any of the following ways? (Please check all that apply)	

	Variables or indicators provided are insufficient
	Level of disaggregation is insufficient
	Categories of disaggregation (geographic, sex, etc) are insufficient
	Timeliness is insufficient
	Frequency is insufficient
•	u answered that data is not sufficient in any of the ways described above, please
prov	ride details on what specifically needs to be improved.
Is th	e agricultural and rural data produced in your country (e.g., datasets and
sum	mary tables) offered in the most useful formats to support decision making?
Mar	k only one oval.
	The datasets are in the best formats possible
	The datasets are in useful formats
	The datasets are in useful formats  The formats are useful, but could be improved
	The datasets are in useful formats
	The datasets are in useful formats  The formats are useful, but could be improved
	The datasets are in useful formats  The formats are useful, but could be improved  For the most part, the formats are not useful
	The datasets are in useful formats  The formats are useful, but could be improved  For the most part, the formats are not useful
Whi	The datasets are in useful formats  The formats are useful, but could be improved  For the most part, the formats are not useful
	The datasets are in useful formats  The formats are useful, but could be improved  For the most part, the formats are not useful  The datasets are not in useful formats at all
and	The datasets are in useful formats  The formats are useful, but could be improved  For the most part, the formats are not useful  The datasets are not in useful formats at all  ch formats of agricultural and rural data produced in your country are the best
and	The datasets are in useful formats  The formats are useful, but could be improved  For the most part, the formats are not useful  The datasets are not in useful formats at all  ch formats of agricultural and rural data produced in your country are the best most useful to support targeted decision making? (For example, datasets in Excel es, datasets in CSV files, other statistical software formats, online data portals,
and table	The datasets are in useful formats  The formats are useful, but could be improved  For the most part, the formats are not useful  The datasets are not in useful formats at all  ch formats of agricultural and rural data produced in your country are the best most useful to support targeted decision making? (For example, datasets in Excel es, datasets in CSV files, other statistical software formats, online data portals,
and table	The datasets are in useful formats  The formats are useful, but could be improved  For the most part, the formats are not useful  The datasets are not in useful formats at all  ch formats of agricultural and rural data produced in your country are the best most useful to support targeted decision making? (For example, datasets in Excel es, datasets in CSV files, other statistical software formats, online data portals,
and table	The datasets are in useful formats  The formats are useful, but could be improved  For the most part, the formats are not useful  The datasets are not in useful formats at all  ch formats of agricultural and rural data produced in your country are the best most useful to support targeted decision making? (For example, datasets in Excel es, datasets in CSV files, other statistical software formats, online data portals,

26.	Is the analyzed information produced from data provided in the most useful products (summary reports, policy briefs, infographics, push SMS) to help Decision Makers with their work?		
	Mark o	only one oval.	
		The information is in the best product possible	
		The information is in useful products	
		The products are useful, but could be improved	
		For the most part, the products are not useful	
		The information is not provided in useful products at all	
27.		information products (reports, policy briefs, infographics) are the most useful o provide data that support targeted decision making?	
Tru in Da		The following questions will address the topic of trust in the data and to what extent Decision Makers and Data Users believe the data is useful and accurate.	
28.		at extent do you believe the agricultural or rural data made available, which described in the previous section, is accurate and trustworthy?	
	Mark d	only one oval.	
		Completely	
		The majority are accurate and trustworthy	
		Some are accurate and trustworthy, but some are not	
		For the most part, the data are not accurate and can't be trusted	
		The data are not accurate or trustworthy at all	
		Do not know	

29.	If you answered that some data is not accurate or trustworthy, why do you think this is? If "Other" is selected, please enter a description in the space provided)
	Check all that apply.
	The organization producing the information has insufficient capacity to produce accurate data  The organization producing the information has insufficient capacity to protect and
	manage data
	Data is altered due to political interference  Other:
30.	What about the agricultural or rural data and information could be improved to increase accuracy and trustworthiness?
31.	With the support of the 50x2030 Initiative, the National Statistical Office will be conducting an agricultural or rural survey with the aim of producing much of the data needed by Decision Makers. Which other agricultural or rural data sources could provide similar or complementary data?
32.	Are there other agricultural or rural data sources available that you think will be more useful or important than the agricultural or rural survey the National Statistical Office will produce?

	Mark only one oval.
	The survey will be the official source, but there are other data sources that will complement it
	The survey is important, but other sources are just as important
	There are other data sources that will be more accurate and trusted
	The survey data is not/will not be accurate or trustworthy at all
33.	How strongly do you agree or disagree with the following statement: Agricultural and rural data produced by the National Statistical Office is well documented and of good quality.
	Mark only one oval.
	Strongly Disagree
	Disagree
	Neither Agree nor Disagree
	Agree
	Strongly Agree
	Please provide the information below for summary purposes.
R	espondent Information
34.	What is your age (in years)?
35.	What is your sex?
	Mark only one oval.
	Male
	Female

36.	What is the highest degree or level of schooling you have completed? (If "Other" is
	selected, please enter a description in the space provided)
	Mark only one oval.
	Primary school
	Lower-secondary school
	Post-secondary vocational or technical training
	Bachelor's degree or equivalent/University first degree
	Master's degree or equivalent
	Doctoral degree or equivalent
	Other
	What field(s) best describe your educational background? (If "Other" is selected, please enter a description in the space provided)  Check all that apply.  Agronomy Agricultural Economics Agricultural Sciences Economics Finance Public Administration Public Policy Statistics Social Science Veterinary Medicine
	Other:
38.	Which of the following best describe your current position? (If "Other" is selected, please enter a description in the space provided)

	eck all that apply.
	Agronomist
	Academic Researcher
	Development Worker
	Economist
	Public Planning
	Budget Analyst
	Program Analyst
	Professor/Instructor
	Statistician
	Veterinarian or Veterinary Specialist
Oth	er:
In v	vhich of the following languages can you read and write?
	ck all that apply.
	LANGUAGE 1
	LANGUAGE 1 LANGUAGE 2
	LANGUAGE 1 LANGUAGE 2 LANGUAGE 3
	LANGUAGE 1 LANGUAGE 2

#### Annex 2

#### DATA ECOSYSTEM MAPPING

#### STANDARD INTERVIEW PROTOCOL

#### Overview

This Protocol provides instructions on the script and procedures to be used for the interviews under the 50x2030 Data Ecosystem Mapping exercise. These interviews are intended to be semi-structured, providing a framework of the interview's intended objectives, while allowing flexibility for the interviewer to use her/his judgment to determine the most productive course of questioning. Interviews conducted under the Data Ecosystem Mapping exercise may involve respondents who have (i) already responded to the written Data Ecosystem Survey Questionnaire, building from their responses, or (ii) not yet responded to the Survey (e.g. high-level officials).

The interviews are intended to collect information on the current status of data use and the seven factors (and their sub-factors) that enable data use. To ensure each interview covers all needed topics, while flowing naturally, the Protocol is organized in five sections:

- 1. Current use of data
- 2. Data demand and expertise
- 3. Data availability, awareness, and access
- 4. Data utility
- 5. Trust in data

#### <u>Instructions to the Interviewer</u>

Your goal is to elicit information to meet the objectives stated under each section. You should prepare before the interview by reviewing the protocol and any background information on the respondent before the interview. The interview will be impacted by whether the respondent has previously completed the written Survey, and if so, the interviewer should ensure they have read the survey responses prior to the interview. Questions should also be strategically selected or worded based on whether the respondent is a Data Producer, Data Intermediary, or Decision Maker. The interview should take 45 minutes to one hour, and questioning should be developed accordingly.

# Suggested Interview Script Good morning (afternoon). My name is \_\_\_\_\_\_\_. I work for \_\_\_\_\_\_\_ and am helping conduct interviews that are part of the assessment of the data ecosystem for the 50x2030 Initiative. Thank you for your time today. Your input is really important to helping us understand how agricultural and rural data are being used to inform decisions in \_COUNTRY \_\_\_\_\_ and any reasons as to why data and information aren't being used in the decision-making process. The purpose of this interview is to get information on your experiences and thoughts on the use of agricultural and rural data in \_\_\_\_\_ COUNTRY \_\_\_\_\_. We asked you to participate in an interview because of (provide appropriate reason such as...your role in your organization, your involvement

<u>with XXX survey, etc.)</u>. There are no right, wrong, desirable or undesirable answers. I would like you to feel comfortable with saying what you really think and feel. Your responses will be kept confidential and will be reviewed along with reports from multiple respondents.

Your privacy is important to us. Private information, like your name or title, will not be shared with anyone outside the researchers working on the Data Ecosystem Assessment. Some parts of your responses may be shared with the public, but no information will be shared that can link you to the response.

If it is okay with you, I will be recording our conversation. The purpose of recording is so that I can get all the details but still have an attentive conversation with you and so that we can transcribe the conversation into written form for more objective analysis along with other interviews. I assure you that all your comments will remain confidential. We will be using your responses to inform the design of the Ecosystem Map for \_\_\_\_\_\_ COUNTRY \_\_\_\_.

There are five sections of the questionnaire addressing the following topics:

- 1. Current use of data
- 2. Data demand and expertise
- 3. Data availability, awareness, and access
- 4. Data utility
- 5. Trust in data

Do you have any questions about the interview before we begin? (wait for comments/questions and then resume) If in the future you have any questions or comments, you can contact Emily Hogue from the International Fund for Agricultural Development in Rome, which is overseeing this study. Her email is <a href="mailto:e.hogue@ifad.org">e.hogue@ifad.org</a> and her phone number is +1-305-519-4848.

Let's get started. Our first questions are around the use of agricultural and rural data in your country.

#### Section 1: Current use of data

Objective: To elicit information on if and how agricultural data is currently used by the respondent			
and/or in the country.			
	Proposed Questions		
For all respondents:	Do you think people are using the agricultural and rural data produced in your country for making decisions?		
	<ul> <li>a. Can you give a specific example?</li> <li>b. Which stakeholder groups are using it the most? By that I mean government, private sector, academia, development partners, and civil society.</li> <li>c. Which group is not using it?</li> <li>d. Why do you think that is?</li> </ul>		
For survey respondents only:	<ol> <li>On the survey, you responded thatwould help you use data better. Can you tell me more about that? (Interviewer should ask specific, relevant follow-up questions).</li> </ol>		

#### Section 2: Data demand and expertise

Objective: To elicit information on the extent to which Decision Makers and Data Users want data to help them make decisions and whether they know how to use data in their work.

#### to help them make decisions and whether they know how to use data in their work. **Proposed Questions** For all What are the goals of your organization in terms of using data in decision making? respondents: 4. How do you think people in your organization feel about using data? 5. How does data help you make decisions in your organization? a. Can you give a specific example of that? 6. Can you describe an instance when you were able to use data and apply it in a way that made a difference in your work? (Interviewer should ask follow-up questions to clarify the type of data and data source in the example.) 7. Can you describe an instance when data was available but you found it difficult to use for some reason? a. What do you think would have helped you use the data? Alternate wording for high-level officials: Can you describe an instance when data was available but staff at your ministry found it difficult to use? In terms of understanding the data and being able to use it, what capacities do you think are missing within the statistical system, or particularly within your organization? a. Who lacks those capacities? b. How could they be improved? For survey 9. In the previous survey, we asked you how data helps you make respondents decisions in your organization. Could you talk through a specific example only: of that? Alternate wording: I'd like to follow up on the example you gave. Could you

## Section 3: Data availability, awareness, and access

Objective: To elicit information on the extent to which the data needed by stakeholders is available, whether they have access to it, and whether they are aware of existing data sources in the country. (Note that awareness will be assessed by comparing objective information gleaned from the desk review and other interviews versus what the respondent believes to be true.)

tell me more about \_\_\_\_\_

from the desk review and other interviews versus what the respondent believes to be true.)		
Proposed Questions		
For all respondents:	10. Is the data you/a data user needs available to use? a. If the data you need isn't available, why do you think that is?	
	11. In the last 12 months, was there a particular type of data or piece of information you needed that was not available? <ul> <li>a. Can you tell me more about that?</li> </ul>	
	12. What do you think needs to happen to make needed data available?	
	13. What agricultural and rural data collected by your country can you and your staff access?	

	a. What isn't available to you?
	14. What agricultural and rural data can the public access? What isn't available to the public?
For survey respondents only:	<ul><li>15. In your survey response, you listed X as a barrier to accessing data.</li><li>a. Can you explain that a bit more?</li><li>b. How do you think that barrier could be removed?</li></ul>

#### Section 4: Data utility

occion 4. Data u		
Objective: To elicit information on whether generated data and data products are relevant and		
useful to Decision Makers and how they could be made more useful.		
Proposed Questions		
For all respondents:	16. Of the agricultural and rural data produced in your country that you have used, was any not useful to you for some reason?  a. Why do you think that was?	
	17. How could the data available be more useful?	
	<ul> <li>18. Could the formats in which the data is provided be made more useful?</li> <li>a. How?</li> <li>b. (Interviewer can prompt about data platforms, report types, microdata sets, and other data products.)</li> </ul>	
	<ol> <li>What would be the best way for you to receive the information you need?</li> <li>a. (Interviewer can give examples of reports, presentations, text messaging, infographics/flyers, etc.)</li> </ol>	
	20. Is there any way to make the information products you currently receive more useful?	
For survey respondents only:	21. On the survey, you said were the most useful ways to receive data for targeted decision making, do you have any good examples of that from your experience?	

#### Section 5: Trust in data

Objective: To elicit information on whether data is trusted and believed to be accurate and if not,		
why not.		
		Proposed Questions
For all respondents:	22.	How much do you trust the quality of the data you receive now?  a. Why is that?
	23.	Do you think ORGANIZATION has the right capacities and staff to produce the needed data?  a. What could be improved?
	24.	Beside capacity constraints, are there any other reasons the data released is not accurate?
	25.	Are there other data sources that are as important or more important than the [INSERT NAME OF ANNUAL AGRICULTURAL AND RURAL SURVEY]?
		a. How do they address data needs better than the [SURVEY]?

For survey	26. On the survey, you said could help increase the accuracy and
respondents	trustworthiness of the data. Can you provide more details on that?
only:	• •