



Global Strategy
IMPROVING AG-STATISTICS



Implementation of the Research Plan

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Priority topics to be addressed



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Outputs of the Global Logframe

- **Global Output 1** - Effective governing bodies set up and functioning at global and regional levels
 - **Output 2:** Coordinating bodies of the national statistical system, legal frameworks and strategic plans established (by the countries) in the target countries, to enable the integration of agriculture into the national statistical system
 - **Global Output 3** - New cost effective methods for data collection, analysis and dissemination developed and disseminated
 - **Global Output 4** - Increased capacity of agricultural statistics staff in regional training centres (i.e. trainers) and 90 target countries
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Identification and ranking of selection criteria

- Stakeholders Conference in Tunis in February 2010 identified the criteria for ranking research topics
- Survey of other stakeholders for ranking the criteria
- Final ranking of criteria discussed at ICASV





Final ranking of criteria discussed at ICASV

- Responding to explicit country data needs
 - Concerning the core set of variables and the Pillars of the Global Strategy
 - Ensuring the integration of agricultural statistics with other domains (e.g. household data integrated with area frame data)
 - Adding value to existing or planned operational programs
 - Producing economic and social benefit
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Thematic Domains

<p>Reference framework</p>	<ul style="list-style-type: none">•Creating an appropriate framework for development of an integrated agricultural statistics programme•Mainstreaming agriculture into NSDS•Implementing an Integrated Survey Framework
<p>Master frame for integrated survey</p>	<p>Using GPS, GIS and remote sensing for setting up master a sampling frame for integrated survey</p>
	<p>Identifying the most appropriate area frame for specific landscape types</p>
	<p>Research for improving methods for linking area frames with list frames</p>



<p>Data collection</p>	<p>Estimating crop area, yield and production of:</p> <ul style="list-style-type: none">● mixed crops
<p>methods</p>	<ul style="list-style-type: none">● repeated cropping● continuous cropping● root crops
	<p>Estimating post harvest loss and use of pesticides</p>
	<p>Estimating the cost of production in developing countries</p>
	<ul style="list-style-type: none">● enumerating nomadic livestock● estimating livestock products
	<p>Adopting new technologies</p>
	<p>Inland fishery and aquaculture</p>
	<p>Irrigated area and use of water for irrigation</p>



<p>Food security</p>	<ul style="list-style-type: none">● food security statistics● food stocks● edible forest products <p>Use of Nutrition indicators for food security indicators</p> <p>Use of households surveys / LSMS for food security indicators</p>
<p>Market information</p>	<ul style="list-style-type: none">● estimating farm gate prices● collecting data on agriculture rural and border market prices● estimating informal cross border trade data● collecting data on factors and product markets affecting agricultural activities and impact of bio-fuel on the market



Thematic Domains

Data analysis	<ul style="list-style-type: none">● reconciliation of census data with survey data● determination of user's information needs for decision making● use of small area estimation methods for improving agricultural statistics● crop forecasting and early warning
Administrative data	Improving the quality of administrative data More efficient and robust methods to use administrative data for improving agricultural statistics
Gender related data and indicators	<ul style="list-style-type: none">● appropriate indicators● data to be collected and survey designs



Thematic Domains

Small scale fisheries	Frame and methods for appropriate data collection
	Estimation of self-consumption
Better integration of geographic information and statistics	Robust and statistically based methods for spatial disaggregation and for integrating various kinds of geographical information and geo-referenced survey data
	Spatial interpolation and presentation



Remote sensing	More efficient and accurate methods for using remote sensing
	Evaluating cost efficiency of remote sensing in developing countries.
	Improving methods for using AFRICOVER or more detailed land use/cover data-bases
Agri-environment	Identifying indicators and data for: <ul style="list-style-type: none">● Agro-environmental indicators● Interactions among climate, environment, and agriculture● Impacts of biofuels and genetically modified organisms on biodiversity and the environment● Deforestation and land cover change



Research activities to be initiated in 2012

Priorities and strategy for implementation of the research plan	DFID	2012
Framework for the development of an integrated agricultural statistical programme	DfID	2012
Sectoral Strategic Plan for Agricultural and Rural Statistics and mainstreaming agriculture into the National Strategies for the Development of Statistics	DFID	2012
Integrated survey framework: Design and implementation	DfID	2012



Research activities to be initiated and/or completed in 2013

Developing a Master Sampling Frame for integrated surveys (use of GPS, GIS, and remote sensing)	DFID	2012-13
Improving methods for estimating cost of production in developing countries	DFID	2012-13-14
Improving methods for estimating Nomadic Livestock	DfID	2013
Improving methods for estimating Post harvest losses	DfID	2013
Improving methods for estimation of crop area, yield and production in different conditions mixed crops, repeated cropping and continuous cropping, root crops	DFID and BMGF	2013 - 2014
Adoption of new technologies: Use of GPS and CAPI/PDA/Tablet in agricultural statistics	BMGF	2013 - 2014



Other Funded Research Activities

Improvement of administrative data	DFID
Use of administrative data for improving agricultural statistics	BMGF
Developing more efficient and more robust methods for using remote sensing data for improving agricultural statistics	BMGF
Evaluation of cost efficiency of remote sensing in developing countries	BMGF
Estimation of farm gate prices	DFID
Collecting data on agriculture rural and border market prices	BMGF
Subsistence fishery - Identification of the frame and development of methods for appropriate data collection	BMGF



Other Funded Research Activities – cont

Developing robust and statistically based methods for spatial disaggregation and for integrating various kinds of geographical information and geo-referenced survey data	DFID
Improving statistical methods for spatial interpolation and presentation	DFID
Improving methods for using AFRICOVER or more detailed land use/cover data-bases	DFID
Agri-environment - Research to define the indicators to be adopted and consequently the guidelines	DFID

Consider funding of post harvests loss



Not Funded Research Activities

Inland fishery, aquaculture

Irrigated areas and use of water for irrigation

Methodology for the estimation of edible forest products, etc.

Collecting data on factors and product markets affecting agricultural activities and impact of bio-fuel on the market

Estimation of informal cross border trade data

Reconciliation of census data with survey data

Use of small area estimation methods for improving agricultural statistics



Not Funded Research Activities – cont.

Determination of users information needs for decision making

Subsistence fishery - Estimation of self-consumption

Interaction among climate, environment, global warming and agriculture

Impact of bio-fuel and of GMO on biodiversity and the environment

Forestry and deforestation and land cover monitoring

Gender related indicators-Research to define the indicators to be adopted and consequently the guidelines



Development of Partnership with other programmes under Global Strategy umbrella

- World Bank LSMS programme: *use of GPS in various conditions for crop area measurement*
 - BMGF/FAO Livestock project: *estimation of livestock production and other parameters*
 - EU/FS project: *use of Household surveys for compiling food security indicators*
 - BMGF/AMIS project: *Crop forecasting, Stocks, Food Price*
 - *Green House Gas project (Germany and Norway): Monitoring and Assessment of Greenhouse Gas Emissions and Mitigation Potential in Agriculture (MAGHG)*
 - *Improving methods for estimating post harvest losses*
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Output and activities of the research plan

Outputs	Activities
2.1 Report on on-going or already completed research activities on the research topic	2.1 Collect information concerning the on-going or already completed research activities on the specific research topic
2.2 Potential partners identified	2.2 Identify possible partner institutions for carrying out research on the specific research topic
2.3 Reports on:	2.4 Prepare the contracts for the partners (academic institutions, research centers, individual experts, etc.)
on-going or already completed research activities on the selected priority topic	2.5 Coordinate the activities of the partners
review of relevant literature (« état des lieux » and « state of the art »)	2.6 Facilitate networking among the partners
gaps analysis and remaining methodological issues identified	2.7. Identify the relevant literature concerning the specific topic
	2.8. Review of the literature concerning the specific topic
	2.9. Identify and analyze the gaps and remaining methodological issues
	2.10 Prepare a draft report on the on-going or already completed research activities and the gaps on the specific topic
	2.11 Technical workshop concerning the on-going or already completed research activities on the specific research topic



Output and activities of the research plan cont.

3. Empirical studies designed, and field tested by relevant technical partner institutions	3.1. Design studies for the field tests for the specific research topic
	3.2. Set up the methodology and the instruments (questionnaires, manuals, etc.)
	3.3. Select the countries and the samples for the experiments
	3.4. Conduct the field tests



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Output and activities of the research plan cont.

5. Methodological publication, dissemination of results	5.1. Analysis of the results of the peer review and the expert validation
	5.2 Prepare and submit methodological papers to important journal
	5.3. Dissemination workshop with countries and other stakeholders
	5.4. Disseminate the findings on the web
6. Guidelines for advanced technical assistance and training prepared on the basis of the results of the research	6.1. Contribution to preparation of guidelines and handbooks for advanced technical assistance and training which include the specific research topic



THANK YOU

