Evaluation of the Global Strategy to Improve Agricultural and Rural Statistics (GSARS)

ANNEXES

March 2019
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ANNEXES

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Annex 1. List of research topics and field tests

Field Tests and Desk Studies in +37 countries

16 Thematic Domains covering 45 Lines of Research

Source: Global Office, Global Strategy, 2018
Annex 2. List of Global Strategy documents produced (119)

**Guidelines and Handbooks**
1. Guidelines on rural statistics
2. Guidelines on SPARS (second version)
3. Guidelines on Agricultural Master Sampling Frames in Practice
4. Guidelines on Agri-Environment
5. Guidelines on crop statistics
6. Guidelines on farm typology
7. Guidelines on measuring youth employment
8. Guidelines for collecting data for sex-disaggregated and gender specific indicators in national agricultural surveys (second version)
9. Guidelines for the measurement of productivity and efficiency in agriculture
10. Guidelines for the Incorporation of a Wood-fuel Supplementary Module into Existing Household Surveys in Developing countries
11. Guidelines on methods for estimating livestock production and productivity
12. Guidelines on the measurement of harvest and post-harvest losses
14. Guidelines on improving and using administrative data in agricultural statistics
15. Handbook on the Agricultural Integrated Survey (AGRIS)
16. Guidelines for collecting data for sex-disaggregated and gender-specific indicators in national agricultural surveys
17. Guidelines for the compilation of Food Balance Sheets
19. Recent practices and advances for AMIS crop yield forecasting at farm and parcel level: A review
20. Guidelines for designing and implementing grain stock surveys
22. Guidelines to Enhance Small-Scale Fisheries and Aquaculture Statistics through a Household Approach
23. Guidelines for the Enumeration of Nomadic and Semi-Nomadic (Transhumant) Livestock
24. Crop Yield Forecasting: Methodological and Institutional Aspects
25. Handbook on Agricultural Cost of Production Statistics
27. Guidelines on International Classifications for Agricultural Statistics
28. Towards a System of Environmental-Economic Accounting 2015, Agriculture, Forestry and Fisheries
29. Guidelines to Enhance Fisheries and Aquaculture Statistics through a Census Framework
30. Guidelines for the Integrated Survey Framework
33. Guidelines for the In-depth Country Assessment (IdCA)
34. Guidelines on Strategic Plans for Agricultural and Rural Statistics (SPARS)
35. Guidelines for Assessing Country Capacity to Produce Agricultural and Rural Statistics
**Technical Reports and Working Papers**

1. Technical report on Agri-environmental indicators
2. Technical report on Block-chain
3. Measuring Decent Work and Youth Employment in Agriculture. Methodological issues and gaps
4. Global Strategy to improve Agricultural and Rural Statistics. Methodology for definition and spatial delimitation of rural areas
5. Informe Final Encuesta Piloto de Combustibles de Madera - EPICOMAD. Incorporación del Módulo de Combustibles de Madera en Encuestas Existentes en Países en Desarrollo.
6. Informe Final de la Prueba Cognitiva Realizada en Ecuador. Incorporación de un Módulo sobre Combustibles de Madera en Encuestas Existentes en Países en Desarrollo
7. Field Test Report 1 – Lesotho. Developing a Wood-fuel Survey Module for Incorporation into Existing Household Surveys in Developing Countries
8. Master Sampling Frames for Agriculture. Supplement on selected country experiences
12. Agri-Environmental Statistics and Indicators: A Literature Review and Key Agri/Environmental Indicators
13. Use of artificial intelligence and web scraping methods to retrieve information from the World Wide Web
14. How to Include the Wood-fuel Supplementary Module into Existing Surveys and Derive Woodfuel Indicators
15. A Protocol for Desktop Analysis on Master Sampling Frames for Fisheries and Aquaculture
16. Technical Report on Reconciling Data from Agricultural Censuses and Surveys
18. Leveraging crowdsourcing techniques and technologies to generate better agricultural information: three case studies, in Indonesia, Nigeria and the Philippines
20. Field Test Report: Intra-household decision making in agriculture
22. A Literature Review on Frameworks and Methods for Measuring and Monitoring Sustainable Agriculture
23. Methodology for Estimation of Crop Area and Crop Yield under Mixed and Continuous Cropping
24. A Review of Literature Related to Master Sampling Frames for Fisheries and Aquaculture Surveys
25. Productivity and Efficiency Measurement in Agriculture - Literature Review and Gaps Analysis
26. Review of National Surveys and Censuses that could incorporate a Wood-fuel Supplementary Module
27. The Social Dimension of Rural Statistics
28. Findings from the Field Tests Conducted in Three Countries: Indonesia, Rwanda and Jamaica
29. Beyond Ownership: Tracking Progress on Women's Land Rights in Sub-Saharan Africa
30. Forestry products classification and definitions
31. A Minimum Set of Environmental Indicators for Improving Rural Statistics
34. Literature Review – Report and Proposal for an International Framework for Farm Typologies
35. Information on Land in the Context of Agricultural Statistics
36. Improving the Methodology for Collecting and Using Administrative Data in an Agricultural Statistics System
37. Literature Review on Reconciling Data from Agricultural Censuses and Surveys
38. Conceptual Framework and Territorial Definitions for Improving Rural Statistics
40. Strategy and Methodology for Improving the Use of Administrative Data – A protocol for In-Country Testing
41. Agricultural Cost of Production – Country Field Test and Desk-Study Reports
42. Critical Analysis of Agricultural Administrative Sources Being Currently Used by Developing Countries
43. Analysis of Agricultural Administrative Data Gaps and Ways of Improving the Quality and Use of Admin. Data Sources
44. Sex-Disaggregated Data and Gender Indicators in Agriculture – A Review of Data Gaps and Good Practices
45. Improving Methods for Estimating Livestock Production and Productivity – Literature Review
46. Improving methods for using existing land cover databases and classification methods – A literature review
47. Crop Yield Forecasting: Methodological and Institutional Analysis (AMIS)
48. Literature, Framework on Improving Methods for Estimating Crop Area, Yield and Production under Mixed, Repeated, Continuous Cropping
50. Gap Analysis on Improving Methods for Estimating Crop Area, Yield and Production under Mixed, Repeated and Continuous Cropping
51. Administrative Data and the Statistical Programmes of Developed Countries
52. Technical Report on Linking Area and List Frames in Agricultural Surveys
55. Reviewing the Relevant Literature and Studies on the Quality and Use of Administrative Sources for Agricultural Data
58. Literature Review on Cost of Production Methodologies
59. Technical Report on Identifying the Most Appropriate Sampling Frame for Specific Landscape Types

**Training Materials**
1. Training Course to enhance Fishery and Aquaculture Statistics
2. Training Course on Livestock Production and Productivity
3. Training Course on Post-Harvest Losses
4. Basic Training on Agricultural Statistics
5. Training Course on Food Balance Sheets
6. Training Course on Master Sampling Frames
7. Training Course on Nomadic and Semi-Nomadic Livestock
8. Training Course on CAPI
9. Training Course on Agricultural Cost of Production (CoP)
10. CAPI e-learning course on Using Computer Assisted Personal Interviewing for Agricultural Surveys
11. e-Learning Course on Linking Population and Housing Censuses with Agricultural Censuses

**Brochures, Leaflets and Other Publications**
1. Improving rural statistics. Defining rural territories and key indicators of rural development
2. Methods for measuring crop area and yield. Improved crop statistics for better decision-making in agriculture
3. Harvest and Post-Harvest Loss statistics. Improving the availability and quality of data for better design, monitoring and evaluation of loss reduction and prevention programs
4. Use of remote sensing for agricultural statistics. Harnessing new technologies to improve the availability and quality of agricultural statistics
5. Small-Scale Fisheries and aquaculture statistics. Producing cost-efficient and reliable statistics for small-scale operators
6. Improving and using administrative data in agricultural statistics. Achieving quality and better use of administrative data for informed decision-making
7. Methods for estimating livestock production and productivity
8. Food Balance Sheets (FBS). Producing analytical data sets for monitoring and analysing food security and food policies
9. Computer-Assisted Personal Interviews with Survey Solutions
10. Master Sampling Frames for Agricultural Statistics. Providing a coherent and cost-effective foundation for data collection based on sample surveys
11. 8-page brochure on The Agricultural Integrated Survey (AGRIS)
12. 8-page brochure on Strategic Plans for Agricultural and Rural Statistics (SPARS)
13. 8-page brochure on Agricultural Cost of Production Statistics

*Source: Global Office, Global Strategy 2018.*
Annex 3. List of training programmes - UNECA


10. Training workshop on agricultural statistics. March 2017


12. Training on Food Balance Sheet. Tunis, Tunisia. October 2017


Source: UNECA (2018)
Annex 4. List of training programmes - SIAP


Source: SIAP (2018)
### Annex 5. EASTC Master’s Agriculture Statistics – Curricula

**Postgraduate Programs Masters in Official Statistics (MOS)**

**Entry Qualifications**
Bachelor’s degree in Statistics, Mathematics, Economics or any other science related subjects. Candidates who are non-degree holders but do hold Advanced or Postgraduate Diplomas may be considered for admission provided that such Diplomas are in the Upper second/Distinction category and are from institutions considered to be Institutions of Higher Learning recognized by Tanzania Commission for Universities (TCU).

#### Semester I Core Modules
- Mathematical Methods
- Probability Theory
- Statistical Methods
- Principles of Agriculture
- Matrix Algebra
- Farming Systems and Sustainable Livelihood Analysis
- Research Planning and Management

#### Semester I Elective Modules
- Design of Experiments
- Statistics in Genetics
- Linear Models
- Survey Sampling Techniques

#### Semester II Core Modules
- Agricultural Administration and Management
- Agribusiness Supply Chain Management

#### Semester II Elective Modules
- Economics
- Regression Analysis
- Statistical Inference
- ICT and Statistical Computing in Agriculture
- Applied Multivariate Analysis

#### Semester III Core Modules
- Advanced Economic Development
- Statistics and Data Management

#### Semester III Elective Modules
- Statistical Forecasting Techniques
- Advanced Sample Survey
- Econometrics
- Applied Data Mining and Statistical Learning
- Official and Agricultural Statistics

#### Semester IV Core Modules
- Gender and Development
- Practical Research Design, Management and Presentation

#### Semester IV Elective Modules
- Research Methodology
- Remote sensing, Agricultural & Official Statistics
- Analysis of Messy Data, Statistical Graphics & Statistical Software
- Population Statistics/Demography
- Office Management
- Monitoring & Evaluation

**Masters of Science in Agricultural Statistics (MAS)**

**Entry Qualifications**
Bachelor’s degree in Agriculture, Statistics, Mathematics, Economics or any other science related subjects. Candidates who have NTA level 6 / Bachelor qualifications with Statistics or Science related Subjects with a GPA of 2.7 or above. Candidates who are non-degree holders but do hold Advanced or Postgraduate Diplomas may be considered for admission provided that such Diplomas are in the Upper second/Distinction category and are from institutions considered to be Institutions of Higher Learning recognized by Tanzania Commission for Universities (TCU).

<table>
<thead>
<tr>
<th>Semester I Core Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematical Methods</td>
</tr>
<tr>
<td>Probability Theory</td>
</tr>
<tr>
<td>Statistical Methods</td>
</tr>
<tr>
<td>Principles of Agriculture</td>
</tr>
<tr>
<td>Matrix Algebra</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester I Elective Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Farming Systems and Sustainable Livelihood Analysis</td>
</tr>
<tr>
<td>Research Planning and Management</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester II Core Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Statistical Methods</td>
</tr>
<tr>
<td>Design of Experiments</td>
</tr>
<tr>
<td>Statistics in Genetics</td>
</tr>
<tr>
<td>Linear Models</td>
</tr>
<tr>
<td>Survey Sampling Techniques</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester II Elective Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural Administration and Management</td>
</tr>
<tr>
<td>Agribusiness Supply Chain Management</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester III Core Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics</td>
</tr>
<tr>
<td>Regression Analysis</td>
</tr>
<tr>
<td>Statistical Inference</td>
</tr>
<tr>
<td>ICT and Statistical Computing in Agriculture</td>
</tr>
<tr>
<td>Applied Multivariate Analysis</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester III Elective Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Economic Development</td>
</tr>
<tr>
<td>Statistics and Data Management</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester IV Core Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Statistical Forecasting Techniques</td>
</tr>
<tr>
<td>Advanced Sample Survey</td>
</tr>
<tr>
<td>Econometrics</td>
</tr>
<tr>
<td>Applied Data Mining and Statistical Learning</td>
</tr>
<tr>
<td>Official and Agricultural Statistics</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester IV Elective Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender and Development</td>
</tr>
<tr>
<td>Practical Research Design, Management and Presentation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester V Core Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Methodology</td>
</tr>
<tr>
<td>Remote sensing, Agricultural &amp; Official Statistics</td>
</tr>
<tr>
<td>Analysis of Messy Data, Statistical Graphics &amp; Statistical Software</td>
</tr>
<tr>
<td>Population Statistics/Demography</td>
</tr>
<tr>
<td>Office Management</td>
</tr>
<tr>
<td>Monitoring &amp; Evaluation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester V Elective Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Impact Assessment and Management</td>
</tr>
<tr>
<td>Ecosystems Valuation and Accounting</td>
</tr>
</tbody>
</table>

Source: EASTC (2018)
Annex 6. Key survey results - Scholarship participants

Respondents - 38

<table>
<thead>
<tr>
<th>Gender</th>
<th>Male – 27 (71%); Women - 11 (29%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Place of work</td>
<td>MOA – 3 (8%); NSO – 26 (68%); Others - 5 (13%); None – 4 (11%)</td>
</tr>
</tbody>
</table>

Key Results

**How did you know about the scholarship for the Master’s program? Please select one that is most appropriate.**

(n=38)

- My boss or Director of the Department/Chief of the Unit: 66%
- Internal office memo/circular: 18%
- Others: 10%
- UNECA newsletter: 3%
- Colleague: 3%

**What was the reason for you to do the Master’s program in Statistics/Agricultural Statistics?**

- Opportunity to grow within my organization/institution: 21%
- Opportunities with international organizations: 31%
- Got the scholarship: 17%
- Demand for qualified statisticians/agricultural statisticians in my country: 31%

**How relevant was the Master’s program to the work you were doing in your country?**

(n = 32)
To what extent did the Master's program increase your knowledge skills in agricultural statistics?

(n=32)

To what extent are you able to use the knowledge and skills that you learned in agricultural statistics in your work, currently? Will you be able to use in the future?

(n=32)

Please select the one that is the most appropriate for you, after the completion of the Master's program?

(n=30)
Overall, how satisfied are you in getting the scholarship to study the Master's program?

(n=32)

Very satisfied 50%
Satisfied 40%
Moderately satisfied 10%

Would inform others about the scholarship program?

(n=32)

Yes 94%
Maybe 6%

Source: Evaluation Surveys (October 2018)
Annex 7. List of thesis produced by scholarship recipients

**English**
1. Actors Contributing To Method Of Solid Waste Disposal At Household Level In Tanzania: A Case Of Dar Es Salaam
2. Measurement of poverty using the Multidimensional versus the Income approach
3. A study of user satisfaction with official statistics in Zimbabwe
5. The Impact Of Oil Production On Human Health
6. An Analysis Of Aggregate Maize Production by Smallholder Farmers In Tanzania
7. Dynamic Relationship between inflation, money supply and GDP
8. Socio-Economic Factors Influencing Solid Waste Disposal Methods At Household Level In Kampala City, Uganda
10. The Impact Of International Trade On Economic Growth In Lesotho
12. The effect of minimum wage, inflation and gross domestic product on unemployment in Ghana
13. Child Labour and Children's Education in Sierra Leone
14. Assessment of the Contribution of Agriculture Sector to The Gambia's Economic Growth
15. Dynamic relation in Unemployment, Inflation and GDP

**French**
1. Analyse socio-économique et technique des exploitations maraîchères dans le zone Nord de Libreville : Cas des exploitations du périmètre maraîcher d’Alibandeng.
2. Analyse des stratégies de resilience des menages en situation de crise alimentaire
3. Pour le moment aucun. Mais je serait disponible en cas d'obtention de bourse
4. Main d'oeuvre, superficie et mode de faire valoir : cas de la Nawa en Côte d'Ivoire
5. Étude d'évaluation d'impact du projet du conseil sur les producteurs d'anacarde en Côte d’Ivoire
6. L'analyse de l'impact des prix de produits agricoles dans le panier de la ménagère, cas de la ville de Yaoundé.
7. Analyse des déterminants de la production des étangs piscicoles au Burundi : cas des provinces de Bubanza et de Bujumbura rural
8. Impacts nutritionnels et environnementaux des pertes post récoltes au Burundi
9. impact de la possession de la terre sur la participation des femmes à la prise de décision au sein des ménages agricoles au Cameroun
10. Analyse des disponibilités alimentaire et nutritionnelle des produits riz et manioc au Congo : approche des bilans alimentaires.
11. Méthodologie des comptes économiques de l'agriculture
12. typologie des exploitations des maraîchers sur les barrages du nord de la Cote d’Ivoire : cas du Gombo et du Piment


16. Élaboration de l’annuaire des statistiques forestières du Ministère des Eaux et Forêt de la Côte d’Ivoire

Source: Compiled from Survey of Scholarship Recipients (October 2018)
### Annex 8. Key survey results – Training participants

**Respondents - 182**

<table>
<thead>
<tr>
<th>Gender</th>
<th>Male - 127 (70%); Women - 55 (30%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Place of work</td>
<td>MOA – 51 (28%); NSO – 118 (65%); Others (13 (7%)</td>
</tr>
</tbody>
</table>

**Key Results (see legend at the end)**

**How did you know about the training/workshop on cost-effective methodologies and tools? Please select one that is most appropriate**

<table>
<thead>
<tr>
<th>Option</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colleague</td>
<td>1%</td>
</tr>
<tr>
<td>Others</td>
<td>4%</td>
</tr>
<tr>
<td>Internal office memo/circular</td>
<td>14%</td>
</tr>
<tr>
<td>Training/Workshop that you attended</td>
<td>29%</td>
</tr>
<tr>
<td>Global Strategy newsletter</td>
<td>4%</td>
</tr>
<tr>
<td>UNECA newsletter or UNESCAP/SIAP newsletter</td>
<td>4%</td>
</tr>
<tr>
<td>My boss or Director of the Department/Chief of the Unit</td>
<td>44%</td>
</tr>
</tbody>
</table>

**As, part of Global Strategy, in which of the following topics have you attended training and/or workshops? Please select all that you have attended.**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fisheries Stats</td>
<td>6%</td>
</tr>
<tr>
<td>PHL</td>
<td>6%</td>
</tr>
<tr>
<td>COP</td>
<td>14%</td>
</tr>
<tr>
<td>FBS</td>
<td>31%</td>
</tr>
<tr>
<td>CAPI</td>
<td>23%</td>
</tr>
<tr>
<td>MSF</td>
<td>39%</td>
</tr>
<tr>
<td>SPARS</td>
<td>43%</td>
</tr>
<tr>
<td>MScD</td>
<td>25%</td>
</tr>
<tr>
<td>Others</td>
<td>17%</td>
</tr>
</tbody>
</table>

(n=160)
Evaluation of the Global Strategy to Improve Agricultural and Rural Statistics - Annexes

To what extent did the training/workshops that you attended were **relevant** to (take into account the needs of) the country/stakeholders or organizations involved? Please indicate your perception for the topics that you attended.

(n=160)

---

How **satisfied** are you with the content of the training/workshops that you attended? Please indicate your satisfaction level for the topics that you attended.

(n=160)

---

In your opinion, specifically in each of the following areas (topics), to what degree did the training/workshops **enhance capacities**, in the country?

(n = 160)
### To what degree has the capacity building (training/workshops) enabled your organization/institution to be more cost-effective and efficient due to using the following methodologies? (n=160)

<table>
<thead>
<tr>
<th>Methodology</th>
<th>Large degree</th>
<th>Medium degree</th>
<th>Some degree</th>
<th>Not at all</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish Stats</td>
<td></td>
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<tr>
<td>PHL</td>
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<td>CAPI</td>
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<tr>
<td>SPARS</td>
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<tr>
<td>MSCD</td>
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</table>

### Have you shared the knowledge gained and training materials with others in the organization/in the country? Please select one (n = 149)

- Yes, everything: 54%
- Yes, some information: 36%
- Very little: 7%
- None at all: 3%

### Are there frameworks and policies in place in the country/organization to continue using the new capacities gained? Please select one (n = 146)

- Yes: 80%
- No: 20%
### Evaluation of the Global Strategy to Improve Agricultural and Rural Statistics - Annexes

<table>
<thead>
<tr>
<th>Question</th>
<th>Response Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is there <strong>adequate budget/resources allocated</strong> in the country/organization to continue using the new capacities gained? Please select one.</td>
<td><img src="image1.png" alt="Pie Chart" /></td>
</tr>
</tbody>
</table>
| (n=145)                                                                 | **Yes** 41%  
**No** 59% |
| How satisfied were you with the overall design of the training/workshop that you attended? | ![Pie Chart](image2.png) |
| (n=160)                                                                 | **Very satisfied** 31%  
**Satisfied** 62%  
**Neutral** 4%  
**Dissatisfied** 1%  
**Very dissatisfied** 2% |

MSCD - Minimum Set of Core Data; SPARS - Strategic Plan for Agricultural and Rural Statistics (SPARS)  
MSF - Master Sampling Framework; CAPI - Computer-assisted Personal Interview; FBS - Food Balance Sheet; COP - Cost of Production; PHL - Post-harvest Losses; Fish Stat - Fisheries Statistics  
*Source: Evaluation Surveys (October 2018)*
Annex 9. Mapping of UNECA Scholarship Recipients

Source: UNECA (2018)