OPENING SECTION: INTRODUCTION TO THE CAPACITY BUILDING PROGRAMME ON THE COMPILATION OF THE SUPPLY AND USES TABLE (SUTs) IN AFRICA

Economic Statistics and National Accounts Section
ACS, UNECA

at
The UNECA/OECD/WB/WTO e-Training on the Compilation of Supply-Use Tables (SUTs) in Africa
Addis Ababa, Ethiopia, 14 Sept-26 Oct 2017
Outline of the Presentation

A. Purpose of the Capacity Building Programme on the Compilation of Supply-Use Tables (SUTs) in Africa
B. Objectives of phases 1 to 3
C. Activities and timeline of the programme
D. e-Training: Curriculum and timetable
E. Organization of the e-Training
F. Moving from Phase 1 to Phase 3
G. Selection of pilot countries
Capacity Building Programme: Purpose

• The purpose of the programme is to strengthen the capacities of national accountants in compiling SUTs by taking into account the informal sector and making good use of administrative data sources so that countries are able to provide quality, timely, and comparable economic statistics.

• There will be three phases in the programme:
  - e-Training module
  - Face-to-face seminar
  - National workshops and technical assistance missions to countries
Objectives of Phase 1: e-Training

• To increase a good understanding of the related concepts, definitions, classifications, accounting framework, and data sources that are important for the compilation of SUTs.

• To learn the needed knowledge and skills of related techniques in the compilation of SUTs.

• To exchange and share experience and best practices in compiling SUTs.
Objectives of Phase 2: Face-to-face Seminar

• To deepen the technical knowledge and skill in producing, compiling SUTs, and disseminating national accounts.
• To enable an exchange of experience and best practices between countries, and
• To increase the understanding of the process to compile SUTs.
Objectives of Phase 3: Technical Assistance

• To compile quality SUTs in a time-bound period.
• To help resolving problems and issues in the process of compiling SUTs and national accounts.
• To help countries to improve production and dissemination of their SUTs and national accounts.
## Capacity Building Programme on the Compilation of SUTs in Africa: Activities and Timeline

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Date/Time: 2018-2019
E-Training for All Countries in Africa

• To organize an e-training module to strengthen the capacities of national accountants in SUTs and national accounts compilation methods

• All the African countries are invited to participate in the e-training.

• At the end of the e-training, an assessment session will be held to evaluate if the participants have acquired the technical skills and to identify the pilot countries based on the technical readiness of the country task teams

• This is also to achieve the goal of promoting the compilation of SUTs in the Africa region.
# E-Training: Curriculum and Timetable [1 of 6]

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<thead>
<tr>
<th>Date</th>
<th>Session and Topics</th>
<th>Proposal Annotation of the Contents</th>
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<tr>
<td>Thursday, 14 Sept 2017</td>
<td>Opening/preparation Session</td>
<td>• WebEx instruction&lt;br&gt;• Introduction to the Capacity Building Programme on SUTs&lt;br&gt;• Briefing of training curriculum</td>
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<td>(E) 3:00-4:00 p.m. (Addis Time)&lt;br&gt;(F) 4:00-5:00 p.m. (Addis Time)</td>
<td>Session 1: Overview of 2008 SNA</td>
<td>• The 2008 SNA&lt;br&gt;- What is SNA&lt;br&gt;- SNA general principles&lt;br&gt;- The purposes of national accounts&lt;br&gt;- Uses of national accounts&lt;br&gt;- Towards the 2008 SNA&lt;br&gt;- The era of international guidelines&lt;br&gt;- Structure of SNA&lt;br&gt;- Boundaries of SNA&lt;br&gt;• Accounts&lt;br&gt;• Supply and Use Tables&lt;br&gt;• Main Changes of 2008 SNA</td>
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</table>
## Session: 2 Supply and Use Tables

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| **Thursday, 21 Sept 2017**  
(E) 3:00-4:00 p.m.  
(Addis Time)  
(F) 4:00-5:00 p.m.  
(Addis Time) | **Supply and Use Tables** |  
- Overview of supply and use tables  
- Structure of supply table  
  - domestic production columns  
  - the vectors of imports of goods and services, trade margins and transport costs; and taxes less subsidies on products  
- Structure of use table, quadrants of use table  
  - Quadrant I:  
    - Intermediate consumption  
  - Quadrant II  
    - Vectors of final consumption expenditure: Government, households and NPISHs; Gross fixed capital formation, change in inventories and valuables; and Exports  
  - Value added quadrant  
    - Compensation of employees, Other taxes less subsidies on production. Consumption of fixed capital, and Net operating surplus.  
  - Supplementary rows  
    - Employment, GFCF and capital stock |
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| Tuesday, 26 Sept 2017 | **Session 3**: Steps for Compilation of SUTs                      | • Outline of Steps to compile SUTs  
• Establishing five tables (unbalanced)  
  - Table 1: Supply table at basic prices (domestic production table and import table);  
  - Table 2: Valuation tables (taxes less subsidies on products, margins);  
  - Table 3: Intermediate consumption at purchasers’ prices;  
  - Table 4: Final uses at purchasers’ prices;  
  - Table 5: Value added at basic prices by industry and its components |
| (E) 3:00-4:00 p.m.    |                                                                     | (Addis Time)                                                                                                                                                                                                                       |
| (F) 4:00-5:00 p.m.    |                                                                     | (Addis Time)                                                                                                                                                                                                                       |
| Thursday, 28 Sept 2017| **Session 4**: Balancing SUTs, Valuation Matrices and SUTs at Constant Prices | • Analyzing and balancing five tables to ensure consistency of SUTs  
  - Balancing SUTs at purchasers’ prices;  
    o Missing data  
    o Coherence of the system of supply and uses  
    o Balancing  
  - Compilation of valuation matrices;  
  - Transformation of SUTs from purchasers’ prices to basic prices;  
  - Balancing SUTs at basic prices  
• SUTs at constant (previous year) prices  
  - Balancing of SUTs at constant prices  
  - Estimates  
    o GDP by production  
    o GDP by expenditure  
    o GDP by income |
| (E) 3:00-4:00 p.m.    |                                                                     | (Addis Time)                                                                                                                                                                                                                       |
| (F) 4:00-5:00 p.m.    |                                                                     | (Addis Time)                                                                                                                                                                                                                       |
## E-Training: Curriculum and Timetable [4 of 6]

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<tr>
<th>Date</th>
<th>Session and Topics</th>
<th>Proposal Annotation of the Contents</th>
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<tr>
<td><strong>Tuesday, 3 Oct 2017</strong></td>
<td><strong>Session 5:</strong> Classifications and Data Sources for</td>
<td>• Classifications</td>
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<td><em>(E) 3:00-4:00 p.m.</em></td>
<td>SUTs</td>
<td>• Data Sources for supply tables</td>
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<td><em>(Addis Time)</em></td>
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<td>- Agriculture, livestock, forestry and fisheries:</td>
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<td><em>(F) 4:00-5:00 p.m.</em></td>
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<td>- Mining, manufacturing, construction, services:</td>
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<td>- Taxes and subsidies on products</td>
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<td>• Data sources for final use matrix:</td>
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<td>- Final consumption expenditure</td>
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<td>• Concluding remarks</td>
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<td><strong>Thursday, 5 Oct 2017</strong></td>
<td><strong>Session 6:</strong> Accounts of Non-Financial Corporations</td>
<td>• Introduction</td>
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<td><em>(E) 3:00-4:00 p.m.</em></td>
<td>to National Accounts</td>
<td>• Accounting system</td>
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<td>• National accounts and company accounts: practical issues</td>
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<td><em>(F) 4:00-5:00 p.m.</em></td>
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<td>• Compilation of national accounts from company accounts</td>
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<td><strong>Tuesday, 10 Oct 2017</strong></td>
<td><strong>Session 7:</strong> Accounts of Financial Corporations to</td>
<td>• Translating financial statements to national accounts</td>
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<td><em>(E) 3:00-4:00 p.m.</em></td>
<td>National Accounts</td>
<td>- Central Bank</td>
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<td>- Commercial Banks</td>
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| Thursday, 12 Oct 2017       | **Session 8: Using Government Accounts and Balance of Payments for National Accounts** | - General Government accounts to national accounts  
- Introduction  
- Definition and coverage of government  
- Sources of data  
- Structure of government accounts  
- Estimating output, intermediate consumption, value added and government consumption  
- Compiling the columns of intermediate consumption of government services and GFCE in the use of table of SUTs  
- Balance of payments and rest of the world accounts  
- Accounting principles and concepts  
- Data and classifications  
- Relationship between international accounts and ROW accounts  
- Special cases |
| (E) 3:00-4:00 p.m. (Addis Time) | **Session 9: Informal Sector**                                                       | - Informal economy  
- Operational guidelines for identifying informal sector and informal employment  
- Measuring informal sector  
- Data to be compiled  
- Surveys on informal sector  
- Direct approaches to estimate informal sector  
- Indirect approaches to estimate informal sector  
  o Compiling labor input matrix  
  o Estimating productivity coefficients  
- Suggested template for compiling informal sector estimates |
### Session 10: GDP exhaustiveness
- **Introduction**
- **Production boundary**
- **Links between production and income approach GDP**
- **Links between production and expenditure approach GDP**
- **Non-observed economy (NOE problem areas), estimating NOE**
- **Eurostat tabular framework (Non-Exhaustiveness Types: N1 to N7)**
- **Findings from Eurostat and OECD studies on country experiences in improving GDP exhaustiveness**

### Session 11: From SUTs to Inter-Country Input-Output Tables (ICIO)
- **The data behind TiVA**
  - National accounts, supply-use tables, trade statistics
  - ICIO tables (structure, pros and cons)
- **History of major ICIO tables**
- **Coverage comparison**
- **Pros and Cons**

### Session 12: Introduction on Trade in Value Added (TiVA) and Global Value Chain (GVC) Trade
- **Measuring value added and GVC trade**
  - Case studies
  - Trade in intermediates
  - ICIO and TiVA
- **Basics on TiVA Methodology**
- **Main TiVA and GVC indicators**
  - Decomposition of gross exports into value added components
  - GVC indicators
- **Guidelines/recommendations on using TiVA data**
- **TiVA-GVC online databases**
Organization of the e-Training [1 of 3]

• Total sessions: 12 sessions of e-training
• Total period of time: 6 weeks (from 19 Sep to 26 Oct)
• Two sessions per one week: Tuesday and Thursday) each of which will be for 2 hours (1 hour in English and another hour in French)
• Reading list and assignment: At the end of each session, one or two papers or chapters will be recommended as a reading assignment and two to three review questions will be proposed to the participants for review. Participants are welcome to submit to ECA their answers to the review questions by the due date.
• Resources related to this e-training, include presentation slides, quiz and solutions, recordings and supporting materials can be found at the e-training website: http://ecastats.uneca.org/acsweb/FocusAreas/eLearning/EtrainingonSUT.aspx
# Organization of the e-Training [2 of 3]

## Time of course activities

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: Training Date
Organization of the e-Training [3 of 3]

• Submission of answers: Please submit your answers to Mr. Sheng Zhao at zhao14@un.org. For our easy correspondence, please name all submission email subject and attached files in the format of "Answers_Session XX_Parcitipant’s Country_Participant’s First Name_Participant’s Last Name".

• Final assessment: At the completion of the 12 sessions, a final assessment will be conducted in about two to three hours to evaluate the level of technical knowledge and skills that participants have acquired from the e-training.
Moving from Phase 1 to Phase 3

- **e-Training module**: is open to all.

- **Face-to-face seminar**: participants of the e-training have successfully passed the assessment at the end of the e-training.

- **Pilot countries of Phase 3**: countries with participants who have successfully completed both the first and second phases of the programme will be invited to be pilot countries.

- **Phase 3** is to compile SUTs and national accounts by the participating countries in a year with needed support in the form of national workshops and on-site technical assistance from the programme.
Selection of Pilot Countries

• Pilot countries will be selected based on two assessments to be conducted at the end of the e-training:
  – The first assessment will evaluate the knowledge and skills developed from the e-training; and
  – The second assessment will be on country data availability administered among those who have done well in the first assessment.
THANKS / MERCI