GTAP Africa Data Base

Presented by

Badri Narayanan G.

Center for Global Trade Analysis

Purdue University
Outline of the Presentation

- Overview of GTAP Africa Project
- Overview of GTAP Africa Data Base
- I-O Tables
- International Trade Data
- GTAP Africa Project Phase II: Proposal
Overview of GTAP Africa Project

- **Funding:** Bank Netherlands Partnership Program via European Commission & World Bank
- **Identifying 5 African economists:** scholarships to contribute data and conduct research
- **Training:** GTAP short course and IO Table contribution course (August 2007)
- **Collecting data on IO tables and international trade to build GTAP Africa Data Base**
Overview of GTAP Africa Project

- Seeking comments on the data from:
  - Representatives of GTAP consortium Board Members
  - Reviewers for individual IO tables (2 for each region) and for the whole database

- Research on African issues by the selected economists

- 2 Special sessions at 11th Annual GTAP Conference, Helsinki (June 2008)

- Public Release of GTAP Africa Data Base after incorporating all comments (December 2008)
Overview of GTAP Africa Data Base

– 39 Regions: 30 African and 9 other regions

– New African regions:
  • Cameroon
  • Cote d’Ivoire
  • Democratic Republic of Congo
  • Ethiopia
  • Ghana
  • Kenya
  • Sudan.

– Other I-O tables and protection data: from GTAP v6.2 Data Base

– Improvements in international trade data
## Contribution of IO Tables

<table>
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<tr>
<th>Region</th>
<th>Base Year</th>
<th>No of Contrib. Sectors</th>
<th>Source</th>
<th>Contributor</th>
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<td>Cameroon (CMR)</td>
<td>2003</td>
<td>57</td>
<td>NIS, CMR</td>
<td>Christian Emini</td>
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<td>Cote d’Ivoire (CIV)</td>
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<td>31</td>
<td>INS, CIV</td>
<td>Yousuf Kone</td>
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<td>D. R. of Congo</td>
<td>1987</td>
<td>27</td>
<td>INS, Congo</td>
<td>Guyslain Ngeleza</td>
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<td>Ethiopia</td>
<td>2002</td>
<td>39</td>
<td>IDS, UK &amp; EDRI, Ethiopia</td>
<td>Dirk Willenbockel &amp; Sherman Robinson</td>
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<td>Ghana</td>
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<td>34</td>
<td>Statistical Sources, Government of Sudan</td>
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</tbody>
</table>

Most of the new tables are very recent and detailed!
International Trade

– There are numerous potentially non-zero intra-African bi-lateral trade flows missing due to the poor quality of trade data in many African countries: About 55% of the total number of transactions are missing!

– Nelson Villoria and Thomas Hertel have estimated these missing trade flows using gravity model and sample selection.
GTAP Africa Project Phase II: A Proposal

• Identify mentors from the GTAP network and African economists for data, modeling and research that are specific to African regions

• Capacity Building: Two Africa short courses

• Data improvements: new regions (Algeria, Angola, Libya, Niger, etc.), poverty data, improvements in protection data, factor shares, skill shares, etc.

• Greater focus on modeling and research issues.
Thank you!

Questions and/or Comments about GTAP Africa Data Base and/or the proposal for its Stage II?