UN Committee of Experts on Business Statistics
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Dr. Saleh ALKAFRI

SUPPLY AND USE TABLES AND DATA QUALITY
SUT, Data quality

Supply and Use Tables (Tool)

Improve data quality (NA)

Better measurement for production, productivity and VA
What is SUT?

- It is a statistical tool that describes the linkages in the economy
- It tries to answer questions on:
  - Where goods and services are coming from and going to;
  - Who are involved in the transactions; and
  - How are the benefits are distributed
- The framework has two main tables: the supply table and the use table, which are closely linked together
Components of SUT:

Supply
- Production
- Imports

Use
- Capital Formation
- Inter. Consumption
- Final Consumption
- Export
**SUPPLY AND USE TABLE: SCHEME**

<table>
<thead>
<tr>
<th>Description</th>
<th>Market Production</th>
<th>Own Consump.</th>
<th>Other</th>
<th>TOT OUTPUT B.P.</th>
<th>IMPORT</th>
<th>M.Duty</th>
<th>Taxes</th>
<th>Tr.Mrg</th>
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<td>GROSS OUTPUT</td>
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**INTERMEDIATE CONSUMPTION (DEMAND) OF INDUSTRIES**

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<thead>
<tr>
<th>Description</th>
<th>INTERMEDIATE CONSUMPTION (DEMAND) OF INDUSTRIES</th>
<th>FINAL DEMAND</th>
<th>TOTAL USES G&amp;S</th>
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<td>Dates</td>
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<td>Other</td>
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<td>TOTAL USES G&amp;S</td>
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**Value Added**

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<th>Value Added</th>
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<tr>
<td>Wages</td>
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<td>Taxes</td>
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<td>Cons. Fixed Cap.</td>
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<td>Op.Surpluss</td>
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<td>GROSS OUTPUT</td>
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</table>

**Product:** \( ID + C + FCF + ChI + X - M = \text{Output} \)

**Industry:** \( IC + VA = \text{Gross Output} \)

\[ N. \text{Products} \neq N. \text{Industries} \]
Information Flow in SUT
Compilation

Source Data → Transform to NA Format → Source Data – NA Format → Setting up SUT

Feedback

Data Editing & Error correction

Edited SUT → Final Balancing → Final Balanced SUT
Advantages:

- Checking consistency of economic statistics
  - Quality assurance framework for the computation of GDP

- Statistical Tool
  - First building block for the IO
    - For policy making, planning and forecasting

- Analytical Tool
  - How to reconcile different data sources in balancing consistent SUT
Types of Discrepancy:

Supply

Use

232,397 (8% of GDP)
Balancing:

- Total Supply\(_p\) = Total Use\(_p\) such that,
- Domestic Supply\(_p\) + imports\(_p\) + Margins\(_p\) + Taxes on products\(_p\) – Subsidies on products\(_p\) =
- Intermediate Consumption\(_p\) + Final Consumption\(_p\) + Gross Capital Formation\(_p\) + Exports\(_p\)
SUT and Data Quality:

First: Treatment of VAT:

Accrued VAT receipts by Government (Total), No product

Estimation Model

Using estimates of final household consumption on which VAT is charged as an inputs (VAT is a consumption tax) **and** rate of VAT applied

Administrative records
SUT and Data Quality:

First: Treatment of VAT:

VAT accrued = Expenditure at purchasers’ prices * VAT rate/ (1+ VAT rate)
SUT and Data Quality:

Second: Products and Industries
- Livestock and Meat Products
- Milk and Dairy Products
- Olive and Olive oil
Over Supply of Livestock:

Supply of Livestock

Use of Livestock

179 million
Over Use of Meat:

Use of Meat

Supply of Meat

206 million
Animals

Supply
- Output: 24
- Imports: 185

Use
- Inputs: 26
- Final-Con: 23
- Inventory: 346

Meat

Use
- Export: 1.5
- 1.9
- 290

Supply
- 15
- 17

179.8 Million $

205.5 Million $
Animals & Meat Production:

Supply=Use Animals: 228,820

Supply=Use Meat: 293,720
Olives & Olive oil:

Supply

Olives 28,688$

Use

Olive Oil 7,342
Checks process:

Olive Oil:
- Intra-trade with Gaza Strip

Olives:
- Household enterprises (Use)
- Check consistency with the Agricultural Statistics (Value = Price \times Quantity)

Quantity assuming that: Total 128,000 tons (Agr Stat), around 38,000 not recorded in the Oil Press Survey.
Olives & Olive Oil:

Supply=Use
Olives

Supply=Use
Olive Oil

108,296

89,478
THANKS FOR YOUR ATTENTION