



UNESCWA
Workshop on Supply and Use Tables



Compiling Supply and Use Tables The Jordanian experience

**Amman, Jordan
November 2019**

Overview



- National accounts in Jordan
- 2016 Jordan SUT project
- Classification framework
- Information processing and management system

National accounts in Jordan, 2008-2016



- **GDP by production** at current and constant prices (21 activities)
- **GDP by expenditure** at current prices (6 categories)
- **GDP by income** at current prices (5 categories)
- **Supply and use tables** in 2006, 2010, 2013
 - Not used to benchmark GDP; Only 2006 completed; Not published

2016 SUTs project

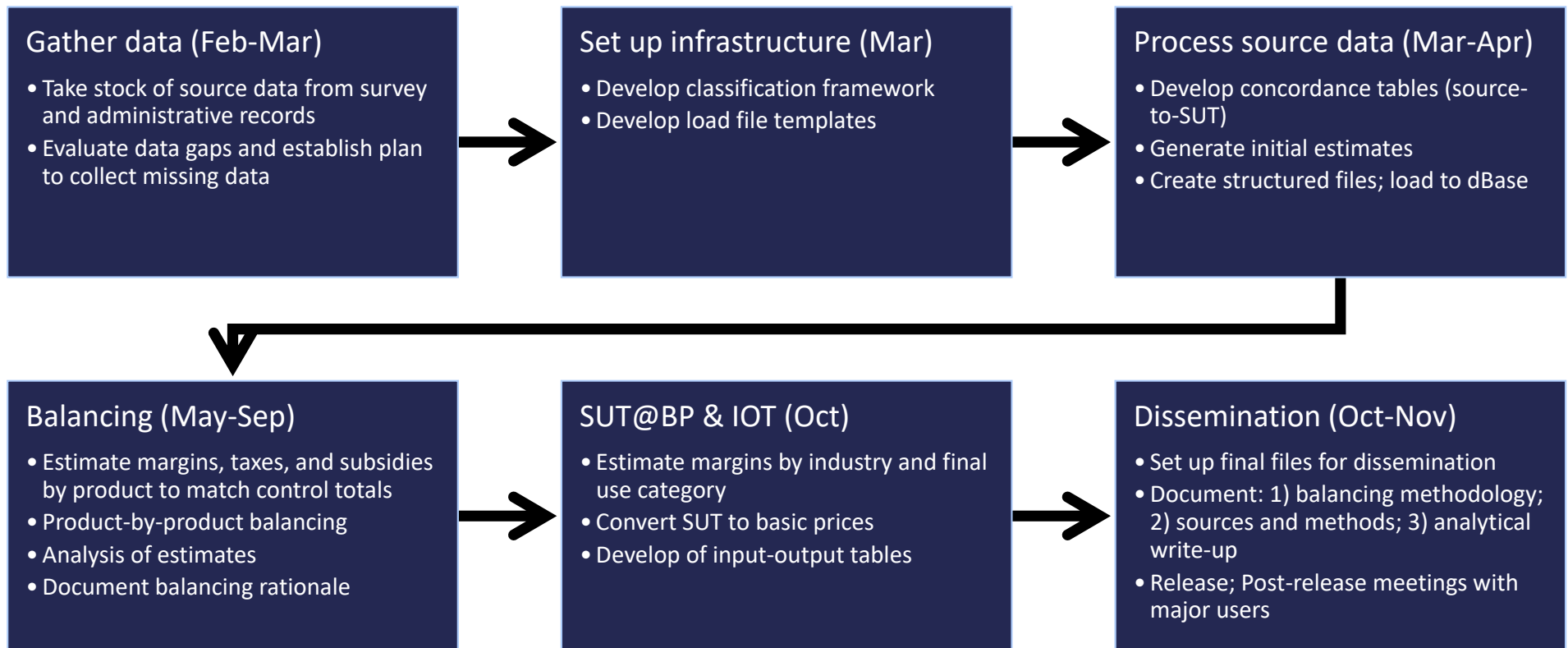
Objectives and resources



- Objectives
 - Provide a benchmark for GDP
 - Improve the statistical infrastructure
 - Compile input-output tables for economic modelling
- Duration
 - March 2019 – November 2019
- Resources and technical assistance
 - 5 staff (Jordanian Input-Output Unit)
 - 1 expert for 4 missions (METAC)
 - Computer hardware and MS Office software

2016 SUTs project

Workplan



2016 SUTs project

Recommendations / Lessons learned



- Have clear objective
- Strong management support
- Revision policy in place
 - GDP annual and quarterly time series
- Detailed work schedule
 - \approx 25% pre-balancing; \approx 60% balancing; 15% post-balancing

SUTs: Classification framework

- Jordan Industry Classification (JIC)
 - 41 industries
 - ISIC-based
 - Split of highest ISIC level when detail available and significant
 - Education, Health split into market and non-market
- Jordan Product Classification (JPC)
 - 102 products
 - CPC-based
 - Special products for FISIM, Non-market output, Imputed rent, Fictives (?)
- Jordan Margins Classification (JMC)
 - Separate columns for retail, wholesale, and transportation
 - 5 columns for the different types of taxes
- Jordan Final Uses Classification (JFC)
 - 13 categories, including 5 for exports, 3 for imports
- Working level has more detail than published

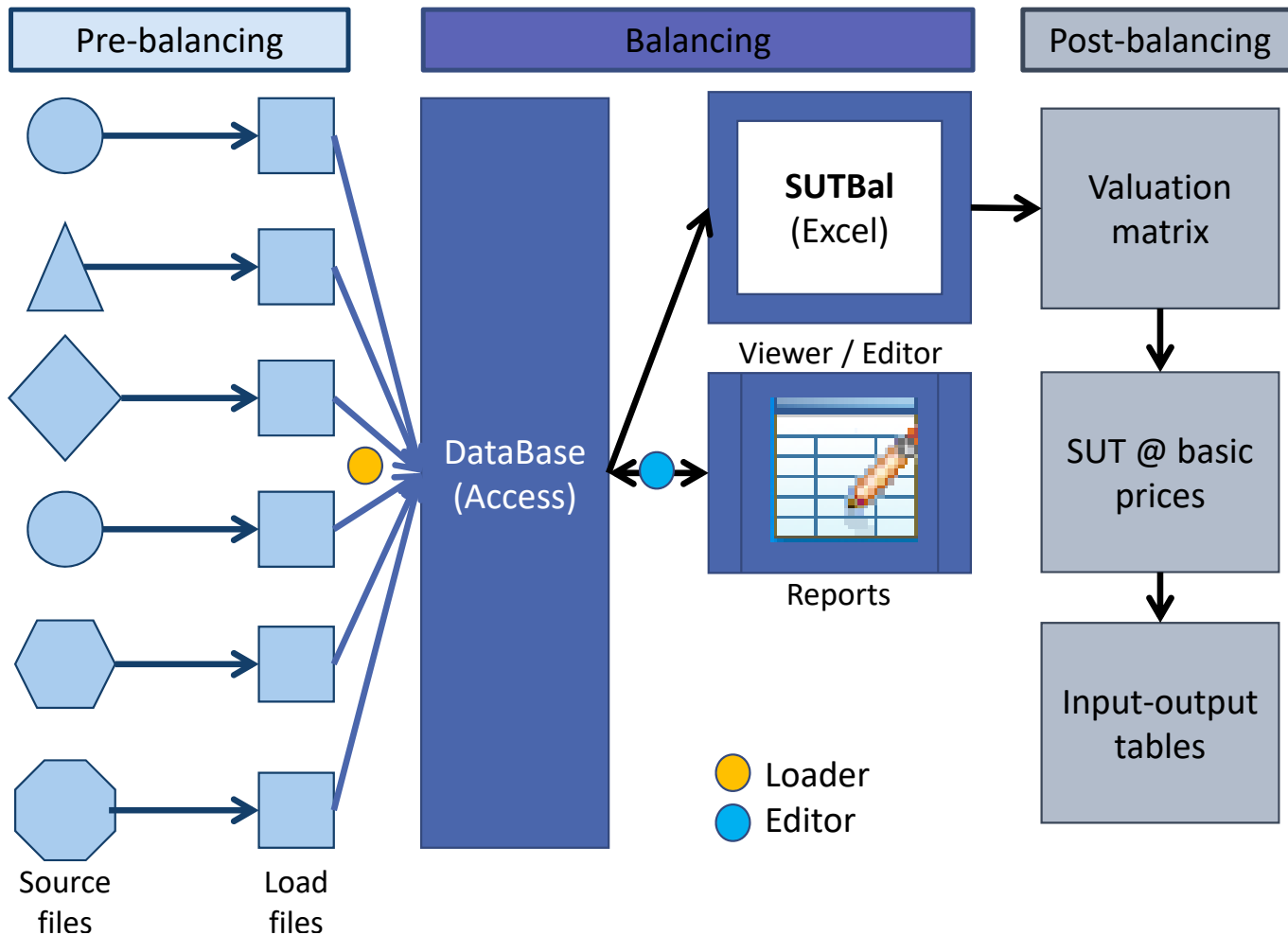
SUTs: Classification framework

Recommendations / Lessons learned



- ISIC-based industries and CPC-based products
- Create concordances: ISIC-JIC and CPC-JPC
- Deviations that facilitate balancing are acceptable
 - E.g. FISIM, non-market, Fictive/Virtual products

Information system



- Excel- and Access-based information system
- Data stored in dBase format
- Fields include
 - JPC,
 - JIC/JFC/JMC
 - IOTable
 - AdjustmentType
 - Analyst
 - Date
 - Comment
- View through Excel pivot table reports
- Edit dBase using Excel
- SUTBal linked to dBase
- SUTBal → Valuation matrix → SUT@BP → IOT

Information system

Recommendations / Lessons learned



- SUT compilation systems recommended features:
 - More than one simultaneous user/balancer
 - Multiple adjustments
 - Documentation of adjustments
- SUT Balancing Tool (SUTBal) extremely helpful
 - Automatic balancing
 - Very fast and allows for late changes
 - Covered in next presentation
- Need to increase system robustness
 - Involve IT section
 - Loader module done in a few days
 - Editor module to follow
- Construct dBase for source data holdings, especially DOS surveys
 - Adds analytical depth through time series analysis
 - Saves time looking up during balancing phase

Organizational issues

Recommendations / Lessons learned



- Documentation very important
 - Methodology | Processing | Adjustments | How to use
 - Departmental action plan to address data gaps
- Capacity development
 - Time investment required to build SUT
 - But annual compilation helps develop expertise, shorten time required to compile, and improve national accounts
 - Presence of expert required in a sustained way during the first compilation initiative

Lessons learned and recommendations



- Objectives and schedule
 - Have clear objective for compiling SUT
 - Work with a schedule
 - Revision policy
 - Strong management support
- Information system
 - SUTB save time and allows for late changes
 - IT involvement required to make system more robust
 - Data holdings need to be set up for IOT team use
- Documentation very important
 - Methodology | Processing | Adjustments | How to use
 - Departmental action plan to address data gaps
- Capacity development
 - Annual compilation to develop expertise
 - Sustained technical assistance initially