Regional Workshop on International Merchandise Trade Statistics

Strengthening Data Compilation and Analytical Capacity

11-13 September, 2017

Suzhou, China

Agenda item 9: Data Processing



Workshop on IMTS Suzhou, 11-13 Sep 2017 United Nations Statistics Division



PART II. DATA PROCESSING SYSTEM

15:45 – 17:00 Agenda item (9)

Data processing system; validation, consistency checking, detections of outliers and data estimation/ imputation; and ensuring quality of quantity information

- (a) Introduction (UNSD)
- (b) Outliers detection (ITC)
- (c) Country experiences (China Customs, Cambodia)

17:00 – 17:30 Agenda item (10)Data processing system of UN Comtrade (UNSD)





Quality indicators related to Data Processing "Coverage – Do you include everything?"

- Share of electronic declarations in data collected by Customs (% of total trade value)
 - Do you still use paper declarations? How are they being processed? When are they added? What is their quality?
- Share of trade data collected via Customs declarations (% of total trade value)
 - How much data is collected from other sources such Oil Ministry, Electricity companies, etc?
- Estimation of low value trade not requiring Customs declarations
 - Is this done? How is it done?





Quality indicators related to Data Processing "Availability of quantity information"

- Number of 8-digit product codes without quantity
- Share of records without quantity (% from total trade value)
- Share of estimated quantity (% of total trade value)

"Revision policy"

- How often do you revise data?
- Do you archive all revisions?
- Estimation of low value trade not requiring Customs declarations





Quality indicators related to Data Processing "Data Validation"

- Validation of input
 - Does the declaration system of Customs contain mandatory fields, relevant for trade statistics?
 - Does the Customs system check immediately for validity of codes (country, commodity, quantity, currency)?
 - Does the Customs system immediately do credibility checks of commodity prices?
- Validation by Statistical unit
 - What is the percentage of records with coding errors?
 - Do you do checks on values and unit-values (outliers, time series, checks against other data sources)?





Quality indicators related to Data Processing "Quality reporting"

- Do you keep logs of all corrections?
 - Which corrections do you keep?
 - Do you keep the original data as well?
 - Is everything time-stamped.
- Do you publish meta-data which each data release?
 - Which data do you publish?





Documentation of the Data Processing System

- Procedures for code validation
- Procedures for value and quantity checking
- Editing procedures
- Estimation procedures
- Procedures for unit value checking, time series checking, checking of plausibility of vale for commodity by trading partner



