

Workshop on Statistics of International Trade in Services:
Challenges and Good Practices
Rio de Janeiro, 1 – 4 December 2009



United Nations Statistics Division
Statistics of International Trade in Services Section



Outline

Conducting enterprise surveys for SITS

- Recommendations in the Manual on SITS
- Recommendations in BPM5 compilation guide
- Defining the population of enterprises
- The sampling frame
- Sampling
- Data collection
- Validation and quality control of the data
- Estimation and weighting procedures
- Reconciliation with ITRS and other data sources



Recommendations in Manual on SITS

3.153. Surveys of enterprises collect information in aggregate form on the transactions of resident enterprises with non-residents. Such surveys may be full coverage or conducted on a sample basis.



Recommendations in Manual on SITS

Surveys of enterprises may be conducted to collect information from enterprises engaged in specific activities (for example, airlines that are engaged primarily in carriage of passengers and freight, legal firms that supply only a small range of services, or hotels and restaurants that cater primarily to overseas visitors) or may be applied to a wide range of enterprises to collect information on all of their services transactions, or even on all of their balance of payments transactions.



Recommendations in Manual on SITS

To be successful, such surveys require the use of an up-to-date register of enterprises and good survey techniques (such as appropriate follow-up, and verification and imputation techniques).



Recommendations in BPM5 compilation guide

131. The approaches of enterprise surveys may range from data collection by telephone from a few large companies to highly organized, large scale, mailbased collections. An enterprise survey may be designed to capture a specific type of data or to obtain data that supplements other sources, such as an ITRS.



Recommendations in BPM5 compilation guide

132. ES should be based on clearly defined objectives, sound collection methodology, and a well-established legal basis; properly designed collection forms, full coverage of the population, well-defined data structures and classifications, and effective data validation and aggregation procedures are also required for ES.



Defining a population of enterprises

 Resident enterprises in the reporting economy involved in international trade in services with nonresidents.



The sampling frame

- International Transaction Reporting System ITRS
- Administrative registers of enterprises that do international transactions, ex. VAT registers.
- National business register all registered enterprises



The sampling frame

- Which enterprises should always be surveyed?
- Is there a 'stable' population of enterprises involved in international service transactions?
- Coverage of smaller enterprises, stratification (ex. By size and industrial activity)



The sampling frame – example Spain

The population frame

Stable population from ITRS

Big firms from VAT-register

 All over 10-employees firms from INE's business register (DIRCE)

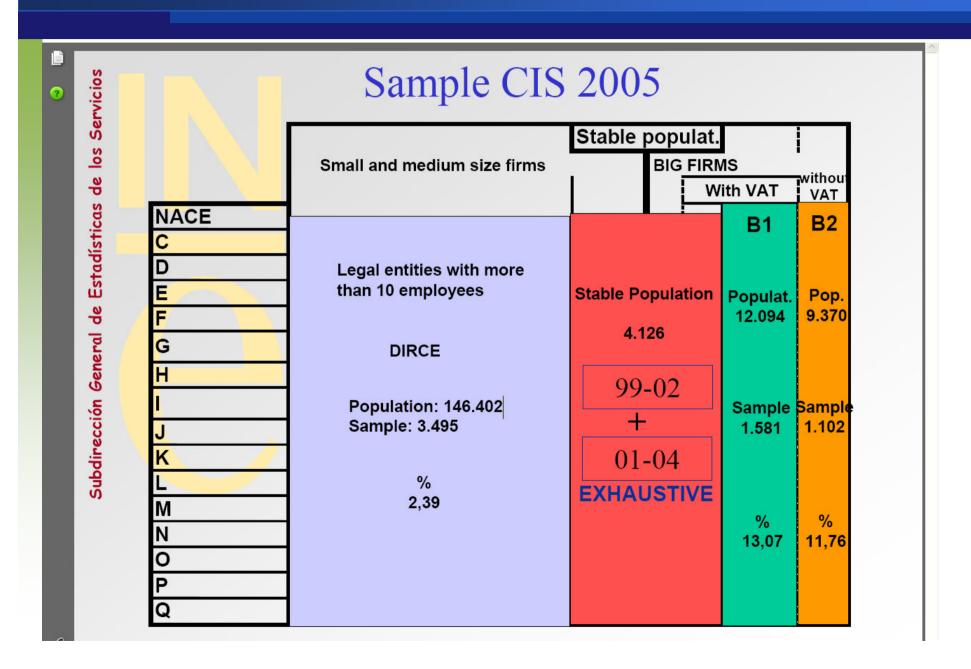
- Stratification on activity (NACE) and size
- Correlation main activity/foreign trade?
 - Import vs export
 - Stable vs unstable population



Sampling

- Sample size: How many enterprises to survey?
- Frequency of survey: quarterly, yearly?
- Different surveys to cover different service items or customized to different industries (airliners, hotels and restaurants, construction firms etc.)
- ... or one survey 'fits all'?
- Can data from existing administrative sources be used?
- Include questions on external trade in services in other already established enterprise surveys?

Sampling – example Spain





Data collection

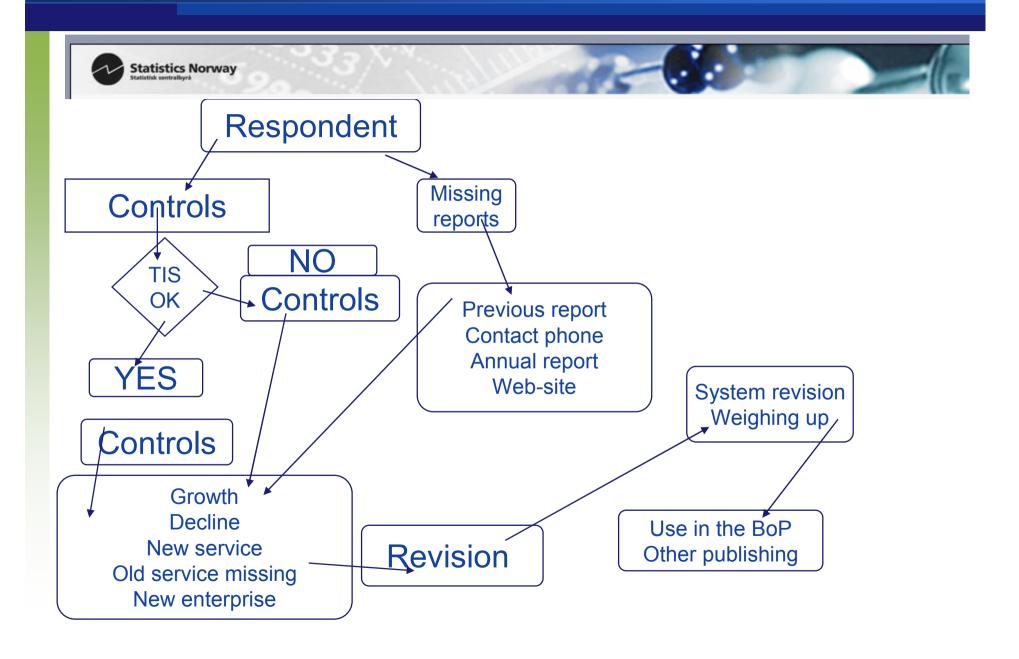
- Ways of data collection
 - telephone interview
 - questionnaires by mail,
 - electronic questionnaires,
 - web-surveys



Validation and quality control of the data

- Follow up on non-response
- Reduce respondent errors
- Make sure there is as little processing error introduced as possible – sound system for data revision

Validation and quality control – example Norway





Estimation and weighting procedures

- Linking the survey responses to initial sample design
- Making sure we have a sample that is representative of the underlying population of all enterprises
- Non-response
- Imputation



Reconciliation wit ITRS and other sources

- Comparing the grossed up results of survey and ITRS
- If possible, study on micro-level any discrepancies
- If needed, do adjustments to reconcile the statistics

Reconciliation with ITRS – example Spain



COMPARISON BOP-ITS SURVEY RESULTS (V): STRUCTURE BY TYPE OF SERVICE



Table 3

	EXPORTS				IMPORTS			
	2006		2007		2006		2007	
BOP ITEM	ITS (adjust.)	ВОР						
Transport	52,26%	33,07%	49,34%	30,45%	36,22%	33,31%	44,98%	31,54%
Communication	5,93%	2,57%	4,73%	2,33%	4,15%	3,64%	5,65%	3,72%
Construction	3,33%	3,98%	4,04%	5,16%	1,31%	2,13%	1,78%	2,20%
Insurance	2,02%	1,38%	3,14%	2,10%	3,73%	3,15%	5,21%	3,33%
Financial	7,26%	7,07%	7,68%	8,56%	2,97%	6,76%	4,36%	7,42%
Computer and Information	15,79%	7,22%	13,73%	7,36%	5,29%	3,40%	5,66%	3,23%
Royalties	2,12%	1,71%	1,54%	0,75%	9,75%	4,07%	12,49%	3,92%
Personal	1,95%	2,25%	2,99%	2,37%	0,59%	3,11%	1,53%	3,13%
Government	1,68%	1,45%	1,48%	1,37%	0,68%	0,68%	1,01%	0,60%
Other business services	7,64%	39,29%	11,33%	39,56%	35,32%	39,76%	17,33%	40,90%

Source: Banco de España.

- > Regarding structure by BOP item, stands out the loose of weight of Other business services
- ➤ Gaining in importance Transportation, Communication, Computer and Information services and Royalties and license fees
- ➤In the case of the imports, it is worthy to mention the increase of the weight over total of the Royalties and license fees component

