



**UNSD-UNESCAP Regional Workshop on Census Data Processing:
Contemporary technologies for data capture, methodology and practice of
data editing, documentation and archiving**
Bangkok, Thailand, 15-19 September, 2008

Agenda

<i>Time</i>	<i>Topic</i>	<i>Responsibility</i>	<i>Document</i>
<u>Monday September 15, 2008</u>			
	Opening		
9:00-9:30	<i>Registration of participants</i>		
9:30 – 10:00	Session 1 – Opening remarks - welcoming remarks by UNSD, UNESCAP, administrative matters	UNSD (JMD)	
	Review of United Nations Principles and Recommendations for Population and Housing Censuses and the preparation of the 2010 round of censuses in the region Objective: To present revisions of the United Nations Principles and Recommendations for Population and Housing Censuses followed by a round table on the preparation of 2010 round of censuses in the region.		
10:00 – 11:00	Session 2 – The 2010 World Programme on Population and Housing Censuses / UN Principles and Recommendations for Population and Housing Censuses, Rev.2- major issues in the revision/ Status of Data Capture in Censuses in the ESCAP region – Presentation by UNSD – Presentation by each participant of the situation in his/her country – General Discussion	UNSD (JMD)	Pres. 1 (UNSD)
11:00 – 11:15	<i>Coffee break</i>		
11:15 – 12:30	Session 3 –Country Presentations- Data Processing/Questionnaire Results of UNSD pre-workshop questionnaire on capture/ editing (country/ regional analysis) Country/ Regional Presentations on Experiences with Data Processing – Presentation of questionnaire results by UNSD – Presentation of the status of data capture in the region by UNESCAP – Presentation by Thailand – General Discussion	UNSD (CB), UNESCAP, country	Questionnaire Pres. 2 (UNESCAP)
12:30 – 14:00	<i>Lunch</i>		
	Introduction to Data Capture Methods and Outsourcing versus in-house processing Objective: To present an overview of Data Capture management considerations and present and discuss the applications and issues of data capture using Optical Mark Recognition Technology; Optical Character Recognition/Intelligent Character Recognition, Manual Data Entry and provide an overview of different process stages		
14:00 – 15:30	Session 4 – Outsourcing versus in-house processing. Is outsourcing required? How to manage outsourcing. Country examples on outsourcing of data capture – Presentation by UNSD – General Discussion	UNSD (JMD)	Pres. 3 (UNSD)
15:30 – 16:00	<i>Coffee break</i>		

<i>Time</i>	<i>Topic</i>	<i>Responsibility</i>	<i>Document</i>
16:00 – 17:30	Session 5- Country Presentations on Data Processing (I) – Presentation by Nepal – Presentation by Vietnam – Presentation by Afghanistan – General Discussion	Presentations by Countries	Pres. (Country) Pres. (Country) Pres. (Country)
<u>Tuesday September 16, 2008</u>			
9:00 – 10:30	Session 6 – Introduction to Data Capture Methods of data capturing, advantages and disadvantages of each method, issues for consideration when choosing the method. – Presentation by UNSD – General Discussion	UNSD (CB)	Pres. 4 (UNSD)
10:30 – 11:00	<i>Coffee break</i>		
11:00 – 12:30	Session 7 - Data Capture: Optical Mark Recognition Construction/Design Characteristics, Hardware and Software Requirements and Scanning/Storage, Advantages and Disadvantages; overview of the major commercial suppliers. – Presentation by UNSD – Presentation by Expert (DRS) – General Discussion	UNSD (CB), Presentation by Experts	Pres. 5 (UNSD) Pres. B (Expert)
12:30 – 14:00	<i>Lunch</i>		
14:00 – 15:30	Session 8 - Data Capture: Optical Character Recognition/Intelligent Character Recognition/ Intelligent Recognition Construction/Design Characteristics, Hardware and Software Requirements and Scanning/Storage, Advantages and Disadvantages; overview of the major commercial suppliers. – Presentation by UNSD – Presentation by Experts (DRS – BetaSystem) – General Discussion	UNSD (CB), Presentation by Experts, Country Presentations	Pres. 6 (UNSD) Pres. C (Experts)
15:30 – 16:00	<i>Coffee break</i>		
16:00 – 17:30	Session 9– Data Capture: Manual Data Entry/ PDA-Handheld-computers/Internet Different technologies/processes in data collection using handheld devices (e.g. PDAs) and Internet. – Presentation by UNSD – Presentation by Republic of Korea – General Discussion	UNSD (CB), Country Presentation	Pres. 7 (UNSD) Pres. (Country)
<u>Wednesday September 17, 2008</u>			
9:00 – 10:30	Session 10 – Data Capture: Process Stages Scanning, Recognizing, and Verifying Processes associated with data capture and Quality assurance/ management system for data capture and logistic issues as well as how to balance timeliness versus quality – Presentation by UNSD – Presentation by Expert (DRS – BetaSystem) – General Discussion	UNSD (CB), Presentation by Experts	Pres. 8 (UNSD) Pres. D (Experts)
10:30 – 11:00	<i>Coffee break</i>		
11:00 – 12:30	Session 11- Country Presentations on Data Processing (II) – Presentation by Iran	Country Presentations	Pres. (Country) Pres. (Country)

<i>Time</i>	<i>Topic</i>	<i>Responsibility</i>	<i>Document</i>
	<ul style="list-style-type: none"> – Presentation by Indonesia – Presentation by Bangladesh – Presentation by Philippines – General Discussion 		Pres. (Country) Pres. (Country)
12:30 – 14:00	<i>Lunch</i>		
14:00 – 15:30	Session 12 – Data Capture: Overview of Major Distributors/Commercial Suppliers <ul style="list-style-type: none"> – Presentations by Commercial Providers – General Discussion 	UNSD (CB)	Commercial Providers Presentations
15:30 – 16:00	<i>Coffee break</i>		
	Data Coding Coding is art of preparing data in a form suitable for entry into computer to facilitate analysis. In this connection, the objective of the session to present an overview of different methods of coding.		
16:00 – 17:30	Session 13 – Data Coding Coding systems: Manual (clerical), Computer-assisted, Automatic coding (automatic coding is usually partial) or combination of more than one system. Coding systems in light of the data collection and capture methods planned for the census. Coding of occupations, industry and educational characteristics: At what level of classification? Adapting the international classifications for national use and importance of maintaining international comparability and nationally over time. Coding indexes <ul style="list-style-type: none"> – Presentation by UNSD – General Discussion 	UNSD (JMD)	Pres. 9 (UNSD)
<u>Thursday September 18, 2008</u>			
	Data Editing Objective: Editing is the procedure for detecting and eliminate errors from data. The objective of the session is to present an overview of the concepts and methods and discuss the application and issues.		
9:00 – 10:30	Session 14 – Introduction to Data Editing Types of Errors (Coverage + Non-response + Content- questionnaire, enumerator, respondent, coding, data entry, etc.). What is editing (concepts of check, control, correct)? Why Edit (give examples of edited and unedited output tables to illustrate potential biasing)? Pitfalls of over-editing. General description of methods of how to edit and how to impute, concepts of manual and automatic edits <ul style="list-style-type: none"> – Presentation by UNSD – General Discussion 	UNSD (JMD)	Pres. 10 (UNSD)
10:30 – 11:00	<i>Coffee break</i>		
11:00 – 12:30	Session 15 – Concepts and Methods in Data Editing Within Record Editing – Concepts of validity and consistency checks, examples of both population and housing edits, example of how edit specifications done, concept and methods of imputation <ul style="list-style-type: none"> – Presentation by UNSD – General Discussion 	UNSD (JMD)	Pres. 11 (UNSD)
12:30 – 14:00	<i>Lunch</i>		
14:00 – 15:30	Session 16 - Data Editing <ul style="list-style-type: none"> – Exercises on CSPRO – General Discussion 	UNSD (JMD)	Pres. 12 (UNSD)
15:30 – 16:00	<i>Coffee break</i>		

<i>Time</i>	<i>Topic</i>	<i>Responsibility</i>	<i>Document</i>
16:00 – 17:30	Session 17- Country Presentations on Data Processing (III) – Presentation by Mongolia – Presentation by Bhutan – Presentation by Sri Lanka – Presentation by Country	Country Presentations	Pres. (Country) Pres. (Country) Pres. (Country) Pres. (Country)
<u>Friday September 19, 2008</u>			
Country Presentations on Data Processing (Cont.) Final Report, Recommendations & Conclusions			
9:00 – 10:30	Session 17- Country Presentations on Data Processing (IV) – Presentation by Country – Presentation by Country – Presentation by Country – Presentation by Country	Country Presentations	Pres. (Country) Pres. (Country) Pres. (Country) Pres. (Country)
10:30 – 11:00	<i>Coffee break</i>		
Data Documentation and Archiving			
11:00 – 12:30	Session 18 - Data Documentation and Archiving (I) Different methods and practices for documentation and archiving census data. – Presentation by UNESCAP – General Discussion	UNESCAP	Pres. 13 (UNESCAP)
12:30 – 14:00	<i>Lunch</i>		
14:00 – 15:30	Session 18 - Data Documentation and Archiving (II) Different methods and practices for documentation and archiving census data. – Presentation by UNESCAP – Presentation by Country – General Discussion	UNESCAP	Pres. 14 (UNESCAP)
15:30 – 16:00	<i>Coffee break</i>		
Final Report, Recommendations & Conclusions			
16:00 – 17:00	Session 19 - Final Report, Recommendations & Conclusions – Final Report, Recommendations & Conclusions: review and adopt report, conclusions and recommendations (Final report lead by Rapporteur, evaluation of Workshop)	UNSD	Final Report