

United Nations Statistics Division

**2010 World Programme on Population and Housing Censuses: Sub-regional Workshop on
Census Cartography and Management**

Bangkok, Thailand

15 – 19 October 2007

Preliminary Agenda

Monday, October 15, 2007

1. Opening

8.30 – 9.00 Opening Remarks
 Administrative Matters

2. Review of United Nations *Principles and Recommendations for Population and Housing Censuses and a Discussion on Census Management & Planning*

Objective: To present revisions of the United Nations Principles and Recommendations for Population and Housing Censuses followed by a presentation on international recommendations on quality control and national issues for census management and planning.

9:00 – 10:30

a. Review of United Nations *Principles and Recommendations for Population and Housing Censuses*

Presentation of revised international standards for conducting population and housing censuses.

- **Presentation by UNSD**
- **General discussion**

10:30 – 12:00

b. Census Management and Planning

International recommendations on quality control, national issues and gender issues.

- **Presentation by UNSD**
- **General discussion**

12:00 – 13.30 *Lunch Break*

3. The role of population and housing censuses in disaster management

Objective: Focus on the role that the population and housing census has to play in cases of extreme disasters. Discuss and emphasize the flexibility of aggregating data at a small area level for identifying endangered populations as well as the necessity to harmonize coding schemes across relevant government authorities for unique identification of small areas. Attention will be given to the advantages of geo-referencing of inhabited areas in case they are affected by disasters of any kind. A leading regional disaster management agency will be invited to present the needs for statistical data in their work.

13:30 – 16:30 Population and housing censuses and disaster management

- **General points – presentation by UNSD**
- **Statistics necessary for disaster management – presentation by Asian Disaster Management Center**
- **National experiences in this field – presentations by two countries**
- **General discussion**

Tuesday, October 16, 2007

4. Report of the Expert Group Meeting on Contemporary Practices in Census Mapping and Use of Geographical Information System (GIS) and assessing current practices;

Objective: Presenting the report of the Expert Group Meeting held in May 2007 in New York; assessing the current state of the art of the use of contemporary technologies in countries in the region.

8:30 – 9:30 a. Presenting and discussing the report of the Expert Group Meeting on Contemporary Practices in Census Mapping and Use of Geographical Information System (GIS)

Present, review and discuss the report

- **Presentation by UNSD**
- **General discussion**

9:30 – 12:00 b. Assessing the use of contemporary technologies for census geography in the participating countries

Presentation of the findings from the questionnaire disseminated prior to the workshop followed by general discussion on the situation

of census mapping using GIS in participating countries as well as associated issues and difficulties and restraining factors for the use of this technology.

- **Presentation by UNSD**
- **General discussion**

12:00 – 13:30 Lunch Break

5. GIS fundamentals, database design, data collection, and data conversion

Objective: Presentation on the elements of a Geographical Information System

13:30 – 15:00 a. GIS fundamentals and database design

Present GIS concepts, definitions, and characteristics, geographic databases modelling, and data structure (Vector vs. Raster); Pre-requisites to and instructions on how to build a GIS project.

- **Presentation by UNSD**
- **General discussion**

15:00 – 16:30 b. Data collection and data conversion

Discuss different data collection methods such as Global Positioning System, imagery acquisition, and local knowledge as well as data conversion such as scanning or digitizing; introduce a GIS platform and conduct a digitizing exercise such as EA creation and splitting.

- **Presentations by UNSD**
- **General discussion**
- **Presentations will be followed by Q&A sessions**

Wednesday, October 17, 2007

6. Demonstrations of spatial statistics applications/technologies and issues

Objective: To present and discuss applications and issues with new approaches in census geography, including the use of Geographical Information Systems in census mapping, data collection and dissemination and to demonstrate some of the capabilities of the various platforms.

8:30 – 10:30 a. Spatial statistics applications and issues and the use of geospatial technologies

EA design: different factors/considerations; Practical examples of delineating EAs; Advantages and constraints of these technologies with regard to the production of EA maps.

- **Presentations by UNSD and others**
- **General Discussion**

10:30 – 12:00 b. Demonstration of spatial statistics applications

Practical examples of geo-coding from direct collection using GPS, geo-coding features in a GIS, and integration of data; advantages and constraints of these technologies with regard to geo-coding.

- **Presentations by UNSD and others**
- **General discussion**

12:00 – 13:30 *Lunch Break*

13:30 – 14:30 Demonstration of spatial statistics applications (cont.); Dissemination issues

Practical examples of segmentation using object oriented technology, basic spatial analysis such as buffer, nearest neighbour, advanced spatial analysis such as spatial autocorrelation and probability thresholds. Dissemination Issues introduced.

- **Presentations by UNSD and others**
- **General discussion**

14:30 – 16:30 c. Dissemination issues (cont.)

Discussion on the issues involving authoring maps and data, metadata requirements, technology issues

- **Presentations by UNSD and others**
- **General discussion**
- **Presentations will be followed by Q&A sessions**

Thursday, October 18, 2007

7. National experiences: Case study presentations and institutional and organizational issues associated with census management and planning for the use of GIS

Objective: Explore approaches to census mapping with GIS through case studies presented by countries and discuss institutional and organizational issues associated with census management and

planning for the use of Geographic Information Analysis and Systems

8:30 – 10:30 a. Case studies of National Experiences:

Presentation of national experiences on the use of contemporary practices in census mapping using GIS, GPS, Remote Sensing, etc.

- **Country presentation 1**
- **Country presentation 2**
- **General discussion**

10:30 – 12:00 Case studies of National Experience (cont.)

- **Country presentation 3**
- **Country presentation 4**
- **General discussion**

12:00 – 13:30 *Lunch Break*

13:30 – 16:30 b. Census management and planning for the use of Geographic Information Systems

Discussion on the institutional and organizational issues related to commercial and non-commercial technologies and purpose and responsibilities in the selection of geospatial statistics technologies.

- **Country presentation 1**
- **Country presentation 2**
- **General discussion**

Friday, October 19, 2007

9:00 – 10:30 Commercial suppliers' demonstrations

Presentation by corporate (commercial) providers of GIS/Remote sensing solutions for censuses (ESRI, GeoSpace International, etc.).

- **Presentations will be followed by Q&A sessions**

8. Adoption of the final report, recommendations and conclusions

10:30 – 13:00 Review and adoption of the workshop report, conclusions and recommendations