

United Nations Statistics Division

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

**Lusaka, Zambia, 8 – 12 October 2007**

**Preliminary Agenda**

**Monday October 8, 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 assurance & national issues for census management and planning.

9:00 – 10:30

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

(Handbook Discussion) Presentation of revised international standards for conducting population and housing censuses.

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

10:30 – 12:00

**Census Management & Planning**

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

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

12:00 – 13.30 *Lunch Break*

13:30 – 16:30 **Census Management & Planning (cont.)**

**Tuesday October 9, 2007**

**3. Review of EGM on Contemporary Practices in Census Mapping and Use of GIS and present GIS Fundamentals, Database design, Data Collection, and Data Conversion**

**Objective:** Briefly introduce EGM conclusions, recommendations and related country issues as well as to introduce the necessary concept and design issues with concern to geographic information systems.

**8:30 – 9:30 Review of EGM on Contemporary Practices in Census Mapping and Use of GIS**

To review and assess recommendations made in the EGM and discuss the situation of census mapping with GIS in participating countries as well as associated issues and difficulties (based on the results from the Questionnaire).

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

**9:30 – 12:00 Invite discussion on the situation of Census Mapping with GIS in the participating countries**

Continue discussion the situation of census mapping with GIS in participating countries as well as associated issues and difficulties.

- **General discussion**

12:00 – 13:30 *Lunch Break*

**13:30 – 15:00 Introduce GIS Fundamentals/ GIS 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 Data Collection and Data Conversion**

Discuss different data collection methods such as GPS, 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 10, 2007**

#### **4. 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 Spatial Statistics Applications & 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 Demonstration of Spatial Statistics Applications**

Practical examples of Geocoding from direct collection using GPS, geocoding features in a GIS, and integrating data; Advantages and constraints of these technologies with regard to Geocoding.

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

#### **12:00 – 13:30 *Lunch Break***

#### **13:30 – 14:30 Demonstration of Spatial Statistics Applications (cont.) and 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 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 11, 2007**

**5. National Experience 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 Case studies of National Experience:**

- **Presentation 1 (Namibia ?)**
- **Presentation 2 (South Africa ?)**
- **General discussion**

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

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

- **Presentations (cont.)**
- **Presentation 3 (Zambia ?)**
- **General discussion**

**12:00 – 13:30 *Lunch Break***

**13:30 – 16:30 Census Management & 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.

- **Presentations**
- **General discussion**

**Friday October 12, 2007**

**9:00 – 10:30 Commercial suppliers' demonstrations**

Presentation by corporate (commercial) providers of GIS/Remote sensing solutions for censuses (ESRI, GeoSpace International, etc.).
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– **Presentations will be followed by Q&A sessions**

**6. Final Report, Recommendations & Conclusions**

**10:30 – 13:00 Review and adopt report, conclusions and recommendations**