

United Nations Statistics Division (UNSD)

Workshop on Census Mapping and Dissemination with GIS

(1 – 5 October 2001, Riga, Latvia)

Draft schedule

Day 1

9:00 - 10:30	Census Mapping Process: Concepts Pre-enumeration -> field maps for enumerators Enumeration -> statistical areas Post-enumeration -> thematic maps and reports
10:30 - 10:45	Break
10:45 - 12:15	Census Mapping with GIS: How GIS can help support census functions at the three stages
12:15 - 14:00	Lunch
14:00 - 15:30	GIS concepts: Definition and characteristics
15:30 - 15:45	Break
15:45 - 17:15	Introduction to ArcView GIS

Day 2

9:00 - 10:30	GIS database concepts: Spatial primitives (Node, vertex, arc, polygon, etc.) Data modelling Data structure: Vector vs Raster Topology
10:30 - 10:45	Break
10:45 - 12:15	Data Collection (different sources) Data Conversion (digitizing/scanning)
12:15 - 14:00	Lunch
14:00 - 15:30	Exercises using digitizers
15:30 - 15:45	Break
15:45 - 17:15	Exercises using digitizers (cont.)

Day 3

9:00 - 10:30	Coordinate systems / Projections / Scale and resolution / data quality
10:30 - 10:45	Break
10:45 - 12:15	Building topology File and data management

12:15 - 14:00	Spatial Data analysis: Buffer, Overlay, Nearest neighbor, etc. Lunch
14:00 - 15:30	Exercises in Spatial Analysis: Queries / Spatial relationships
15:30 - 15:45	Break
15:45 - 17:15	Exercises spatial analysis (cont.)

Day 4

9:00 - 10:30	Advanced Spatial analysis (cont.): Interpolation, Routing , etc. Geocoding,
10:30 - 10:45	Break
10:45 - 12:15	Data Exchange Cooperation with other agencies Outsourcing
12:15 - 14:00	Lunch
14:00 - 15:30	Exercises on EAs and Administrative boundaries (example of geocoding)
15:30 - 15:45	Break
15:45 - 17:15	Comprehensive Exercise (cont.)

Day 5

9:00 - 10:30	Data dissemination: Thematic maps Atlases Internet mapping
10:30 - 10:45	Break
10:45 - 12:15	Cartographic design Design factors - audience, reality, scale, technical limits Visual contrast Symbology Use of text Use of color Exporting Display media Other dissemination
12:15 - 14:00	Lunch
14:00 - 15:30	Critical success factors for Census GIS project/ important criteria Selection of software
15:30 - 15:45	Break
15:45 - 17:00	Evaluation and Closing

Requirements: Participants should have practical experience in the use of PC and MS Office software.