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ROMANIA: NATIONAL REPORT

by

National Commission for Statistics

I. ON-GOING GIS PROJECTS

1. The Romanian National Commission for Statistics is presently developing the following GIS projects:

- a) establishment of a Geographic Information System for preparing an accurate sectorization and a proper data dissemination for the forthcoming Agricultural Census in 1998;
- b) production of outputs based on 1992 Population and Housing Census data: thematic maps, screen views, thematic queries, thematic graphical analysis;
- c) GIS applications in agricultural and environmental statistics;
- d) identification, collection and introduction of statistical data in GIS systems from the following areas: population, demography, agriculture and environment;
- e) cooperation with Ministry of Agriculture in MERA EC project.

II. DATA SOURCES

2. There are three main data sources for GIS in Romania:

- a) the administrative data set of the National Commission for Statistics (NCS) which includes the geographical and descriptive data. The data set contains the administrative boundaries and the location of cities and communes;
- b) geographical and cadastral data that will be provided in cooperation with the Ministry of Defense, the Geographic Institute of the Romanian Academy, and the Institute of Geodesy, Photogrammetry, Cartography and Territorial Organization.
- c) statistical data produced by NCS.

III. GIS OUTPUTS

3. The GIS is used in NCS Romania in the production of the following outputs:

- a) SIRUTA register (localities register) with administrative maps at county-commune level, based on GIS software ArcView;
- b) the publication "Human Development Report" (UNDP project);
- c) the publication "Dwelling Stock";
- d) administrative and thematic maps based on the data from the 1992 Population and Housing Census; the maps are provided for users on request.

IV. HARDWARE AND SOFTWARE

4. The **hardware** used for GIS applications includes:

- a) 1 PC ErgoPro 172v, 133 MHz, CD-ROM drive,
- b) 2 PC ErgoPro 151v, 75 MHz
- c) 1 Color Inkjet Plotter Océ 5100C
- d) 1 Digitizer Océ G6834, A1 format.

5. The **software** used in GIS applications includes:

- a) ArcView 3.0
- b) PC Arc/Info version 3.5
- c) MapInfo Professional 4.1
- d) Windows 95.

V. FINANCIAL AND PERSONNEL IMPLICATIONS

6. The development of GIS depends on the allocation of the necessary budget for endowment. The implementation of GIS projects has been hindered by the lack of personnel. The GIS unit was formed in the Census Division and consists of 3 persons.

7. The GIS training programs include the training of the GIS unit's staff to use MapInfo, ArcView and Arc/Info software, and full training of the staff working with specific hardware (digitizer, plotter).

VI. PLANS FOR FUTURE ACTIVITIES

8. In the area of GIS, the NCS Romania plans to:

- a) implement GIS applications (including the thematic maps) in population, agricultural and environmental statistics;
- b) develop the procedures for geographical data collection from the national data providers, both at national and regional level;
- c) train the internal users from NCS departments and external users on GIS applications and developing turn-key applications, according to their own requirements.