

Work Session on Geographical Information Systems  
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## **POLAND: NATIONAL REPORT**

Submitted by the Central Statistical Office of Poland <sup>1</sup>

### **I. INTRODUCTION**

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1. The implementation of GIS technology in the Central Statistical Office (CSO) began in 1991. In the first stage, attention was drawn to the problems connected with statistical data dissemination, which resulted in some interesting publications using GIS tools. GIS methods are used now mainly in CSO but also in some regional statistical offices. Various GIS tools are used, e.g. MapInfo, Aviso and ArcInfo, all of them on Intel-based PC machines. In 1997 the special team responsible for elaborating a programme using GIS in statistics was created. The future of GIS in the CSO depends on the results of this team's work.

## II. RECENTLY DEVELOPED PROJECTS

2. **Monitoring Agriculture with Remote Sensing and Environmental Related Applications (MERA-95).** This project concerns the estimation of crop-producing area at the regional level (Central Europe) and at country and voivodships levels. The Institute of Geodesy and Cartography is the responsible co-ordinator for the preparation of maps, analysis of aerial photographs and data processing. CSO organizes the ground surveys and participates in the training of staff and in data processing. The results of this project will be used for the preparation of methods for the rapid estimation of area, prediction of yield and production of the main crops. At country and voivodships levels, data will be compared with the CSO's results obtained by traditional methods. These analyses permit the evaluation of the efficiency and accuracy of the new method.

3. **Polish-Canadian Agriculture Project (PCAP).** The main objective of this project is to monitor crop condition and to predict yield using remote sensing methods. Digital satellite images are the source of data which is delivered to the CSO for analysis. ARC INFO and CCAP (Crop Condition Assessment Program) are used to assess the vigour and health of crops.

4. **CRop Information System and Statistics (CRISS).** This is an integrated system for statistics of agriculture using area frames. CRISS manages the projects from the beginning (preparation of the survey) through to the elaboration of results in the form of tables and maps.

5. **Use of GIS for statistical data presentation** in Wroclaw. The sources of information are: REGON - business register; TERYT - territorial register; results of the Census'88; and data from the statistical surveys. The statistical information is presented in the form of maps using MapInfo program.

6. **Use of GIS for the territorial register** in the Voivodship of Warsaw. The aim of this project was to computerize the territorial register in the form of numerical maps using ARC INFO. In addition, the possibility of data presentation in maps was introduced.