

THE LITHUANIA NATIONAL REPORT FOR PHOTOGRAMMETRY AND REMOTE SENSING

1992 - 1996

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ABSTRACT

The National Report of the Lithuania outlines activities and new achievements in photogrammetry and remote sensing during the period 1992 - 1996. All sectors are described including governmental / private institutions, foreign supporters, education and equipment, and users. A wide range of large changes is delivered.

KEY WORDS: Lithuania. National Report. Applications. Institutions.

The Lithuanian Committee for Photogrammetry and Remote Sensing is fully public organization and funded not by any institutions. There are about 25 members. The journals: "Land Planning and Reclamation" and "Geodesy and Cartography" are open for reports, papers or articles for photogrammetry.

After regaining the Independence in 1990 the great impetus to development of Lithuanian photogrammetry had been given. During six years of the Independence we have gained the extensive support of many developed countries of the Europe. Many former state boards and enterprises had been reorganized and consequently they had got new names.

In 1993 was realized the joint governmental project of Lithuania and Switzerland: "Renewal of basic cartography" for the State Institute of Aerophotogeodesy. As a sequence of this project there were installed three Leica Analytical photogrammetric stations SD 3000, Intergraph Workstations on Microstations / Windows NT: Leica TA 100 plotting table, HP 650 ink jet color plotter and for reproduction and printing: Macintosh

Desktop publishing, AGFA repromaster, Klimsch Pontica camera, FAG Korrex printing machine and etc. for the field works had been delivered four Leica GPS stations. Now this system is used for renewal the topographic maps at scale of 1:10 000.

Also in 1993 had been begun realization fully of a new joint project of Lithuania and Sweden for compilation of satellite maps at scale of 1:50 000. The basic works were made by State Institute of Aerophotogeodesy and State Enterprise GIS - Center for Remote Sensing and Geoinformation, and SSC Satellitbild (Swedish Space Corporation) and LM Kartor. The entire area of Lithuania will be covered and this work will be finished in this year.

In 1993 also by Lithuania and Iceland had been established the joint private venture "HNIT - Baltic GeoInfoService (HB - GIS)" for activities in geodesy, photogrammetry, cartography and geoinformation systems.

In 1992 on the basis of former Architectural Laboratory was established the private venture "CAD & F ProjectService" which is working in digital photogrammetry. There

Hardware and Software are essentially consisted of products from Switzerland and Germany such as the photogrammetric station SD - 2000, photomass, computerized stereometrograph, Hewlett Packard plotting table, digitizer Aristo 0406 and CAD - Spirit System. They are successfully working in Germany and other countries. In recent time on the basis of aerial and terrestrial photography they are establishing 3D reference digital model for the city Vilnius at very large scale.

At last we must underline the activities of Technical University Vilnius in digital approaches. At first under aid of the Government of Denmark and Aalborg University were received eight GPS stations "Ashtech" which had been used for reestablishing triangulation network of zero, first and second orders in the new state coordinate system.

By aid of the Government of Norway and Telemark Research Foundation in 1994 for compiling the topographical and cadastral maps in university were installed computerized stereosimplex IIc and Wild autograph A8 and for the block triangulation were computerized the stereocomparators: Steko 1818 and Stecometer. Besides, they have also delivered some new computers, digitizer "Calcomp", plotting table "Draft Master MX" and etc.

In present time there we are making the basic digital reference map at scale of 1:1 000 for GIS of the city Vilnius.

Besides, the governmental aids are given from Sweden and France (IGN) for establishing orthophotos covering the large areas of Lithuania in relation to solve many cadastral problems.

The extensive changes have been done in educational structures and curricula such as the speciality for real estate was established and etc. There are educated bachelors, engineers, masters and doctors of sciences. At the department of geodesy two habil. doctors are working.

During six years of Independence in surveying of Lithuania practically the outburst had been befallen, so much was done, but it is needed more to do in the near future.