

NATIONAL GEOINFORMATION INFRASTRUCTURE OF THE CZECH REPUBLIC - PRELIMINARY VIEW OF NEMOFORUM

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1. INTRODUCTION

- **Czech geospatial information community - Czech Association for Geoinformation (CAGI)**
- **Czech Office of Surveying, Mapping and Cadastre (COMSC)**
- **Nemoforum - link between public administration and private sector (professionals, firms, universities etc.)**
- **Working group on NGII**
- **National information infrastructure**
 - in the Czech Republic represented by programme and document State Information Policy. Action Plan supporting Public Administration activities

2. GEOINFORMATION SYSTEMS AND IT GIS - LIMITS OF DEVELOPMENT AND USE

- **Study in frames of Czech Grant Agency -**
 - Barriers and limits for development in GIS, perspectives
 - high costs (not too rational design and implementation, qualified personal)
 - slow transfer to digital forms of maps
 - insufficient use of high IT for data acquisition
 - limited access to national-wide databases
 - GI business and commerce as important part of economy not yet
 - lack of classification systems
 - lack of quality evaluation
 - lack of professionals
 - unclear position of geodata in legal system
 - conditions for use of geodata produced by public administration
 - limited knowledge of foreign approaches and results

3. NATIONAL GEOINFORMATION INFRASTRUCTURE OF THE CZECH REPUBLIC - STATE OF ART AND PERSPECTIVES

- **National information infrastructure**
 - Office for State Information System
 - State Information Policy
 - Czech Forum for State information Policy
 - Basic theses of development of IS in public sector
- **Czech Geoinformation Infrastructure (NGII)**
 - Cooperation of private and public sector
 - Czech Association for Geoinformation

- Czech Office of Surveying, Mapping and and Cadastre
- Acknowledged by State Information Policy

4. CONCEPT OF NGII

- **Part of National Information Infrastructure**
- **Developing in frames of the State Information Policy (NII)**
- **Technical conditions for geodata processing and geoinformation user oriented outputs**
 - No deep problems, solved in frames of NII
- **Organizational, financial and other conditions influencing the access to geodata and geoinformation**
 - unified approach on governmental level (or not ?)
 - ownership of data
 - author's copyrights
 - responsibility for quality of data
 - cooperation of public and private sector
 - free access
 - charging of data outputs - access by free
 - data supply - public service or not ?
 - more changes in legislation necessary
- **Basic data sets**
 - spatial identification and spatial localization
 - DB of spatial identifiers
 - cadastral (1:1000), 1:10000 and 1:50000 maps, terrain model
- **Knowledge of existing datasets of geodata**
 - metainformation systems
 - national clearing house - MetaIS CAGI of geodatasets
 - purpose-oriented metaIS at different subjects
- **Standardization**
 - adoption of CEN and ISO standards
 - user-oriented specific national standards - transfer formats
 - metadata description
 - indirect reference system
- **Qualification of professionals**
 - higher theoretical background
 - international contacts
 - top scientific specialists
 - university profiles - profiles of students
 - continuing professional programs
- **Knowledge level of users incl. potential**
 - broad information campaign
 - typical ways of use
 - support to economy, general education and better knowledge

5. INTERNATIONAL COOPERATION AND CONTACTS

- **European programmes**
- **EUROGI, DG XIII and others**
- **global and European activities (GSDI, EGII, Global Mapping, Digital Earth - 2003 in Prague ?)**
- **Agenda of Small Countries**
- **coordination of all activities - more benefits to Czech authorities and subjects**

6. CONCLUSIONS

- **Need for National Geoinformation Infrastructure is obvious - NGII programme under development in frames of Nemoforum**
- **Background in State Information Policy (NII)**
- **Leading subjects - COMSC and CAGI**
- **Not yet recognition of importance of GI industry and g-commerce**
- **International cooperation could speed up the development in CR**

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