

HUNGARY

Hungary has a population of just over 10 million people over an area of 93,000 km², almost 90% of which is agricultural (68%) or dedicated to forestry (20%). There are 20 regional authorities and 3,200 municipalities.

The main actors in the area of geographic information are:

- Mapping Agency of the Home Defence Forces (smaller than 1:10,000 scale) (<http://www.mhtehi.gov.hu>)
- The Ministry for Agriculture and Regional Development (MARD). Its Department of Lands and Mapping has the national responsibility for cadastral and topographic mapping up to 1:10,000 scale inclusive. It also serves as National Land Administration Agency and is responsible for FÖMI, a leading R&D institute in GI sciences (<http://www.fomi.hu>), where the National Remote Sensing Lab established in 1980 provides among others the operational countrywide CROPMON service for MARD.
- The Hungarian Central Statistical Office, which collects socio-economic and financial data and provides a detailed gazetteer of the Republic of Hungary (<http://www.ksh.hu>).
- The Institute for Territorial Planning (VATI), is responsible for data used for regional development, providing territorial information service called TEIR (<http://vati.ktm.hu>).
- The Ministry of Environmental Protection (<http://ktm.gov.hu>).
- The Ministry of Transport, Communication, and Water Management for data related to telecommunication, roads, railways and waters (<http://khvm.gov.hu>)
- The Hungarian Geological Survey (<http://mgsz.hu>), the Geological Institute of Hungary (<http://mafi.hu>), and the Eötvös Lorand Geophysical Institute (<http://elgi.hu>) provide geoscience data services.

In Hungary there is a strong land registry and cadastral tradition that goes back to the Austrian-Hungarian empire. It is therefore developing a computerised integrated system containing both textual and cadastral data using the application tailored TAKAROS and META systems. Some entries will be searchable through time to monitor changes.

Core Data: the textual element of the land registry is now in 100% digital format. Approximately 4% of the associated cadastral maps were available in digital format in 1998, 15% is anticipated for 2002. Base topographic maps at scale 1:50000 have full country coverage in digital format, while approximately 5% of the country is covered by map at scale 1:10 000 in digital format, with a significant activity being undertaken in digitising existing large scale maps. Standard and detailed information on the digital availability of socio-economic and statistical data and a detailed gazetteer can be found on the homepage of the Central Statistical Office. The TAKARNET data transmission network of the Land Administration (<http://www.takarnet.hu>) provides wide range of information on core data, products and services.

Metadata: an inventory and documentation of existing data sets is in progress using Z39.50 as standard. Two metadata servers have been set up, METATÉR Server at the Geological Institute of Hungary, (<http://meta.mafi.hu>) supported by the Prime Minister's

Office and FISH (<http://fish.fomi.hu>), with a server at the Institute of Geodesy, Cartography and Remote Sensing (FÖMI).

Coordination: a national policy on data access and sharing is being developed by an Inter-ministerial Committee on Informatics under the auspices of the Prime Minister's Office. Another inter-agency committee is co-ordinating the digital map acquisition co-chaired by the two ministries with responsibilities in this area.

In respect to the key elements of a national spatial data infrastructure, there is significant progress being made at all levels, including legislation, technology, education and training, data, and overall institutional framework. European Phare, Tempus and R&D funding are proving beneficial for this purpose as well as the linkage of HUNAGI, the umbrella organisation for GI, with EUROGI in raising awareness further at national and local levels. Key issues for the future include the implementation of the framework being developed, and accession to the EU. This is being prepared through a national programme for the adoption of the Acquis Communautaire, which also has a separate subchapter devoted to key issues in land administration and mapping.

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Appendix 1: List of participants in the Data Policy Workshop 15 November 1999

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| Ian Masser, | President of EUROGI |
| Anton Wolfkamp | Secretary General of EUROGI |
| Bas Kok | RAVI |
| Jaap Berends | RAVI |
| Laila Aslesen | CERCO Working Group on Legal Issues |
| Gabor Remetey-Fulopp | HUNAGI |
| Max Craglia | AGI |
| Josef Strobl | AGEO |
| Dr Krysia Rybaczuk | Department of Geography at Trinity College Dublin |
| Luigi DiBello | Technical Coordination Committee Italy |
| Bertrand du Marais | French Planning Directorate |
| Ad Bastiaansen | Director Business Development Tele Atlas |
| Jan Jellema | EuroGeoSurveys (GEIXS) |
| Allessandro Annoni | JRC |
| Jean Meyer-Roux | JRC |
| Torbiörn Carlquist | GISCO/Eurostat |
| Martin Littlejohn | DGXIII |
| Frank Hoffmann | BOW - Bildungszentrum Dresden |
| Alenka Krek | Geoinfo. TU Wien |
| Antti Vertanen | ProGIS |
| Antti Kosonen | ProGIS |
| Yves Reginster | ETeMII |

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