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unofficial Top Chart

Major GIS Market Players in Hungary

	Player	Type	Sectors	Products	Turnover in HUF	Staff
1	Institute of Geodesy, Cartography and Remote Sensing (FÖMI)	Government Dept	CG, LG, Ret, Env, Edu, Uti	DTA 100 K, DTA 10 K Cadastral maps CORINE TAKAROS Aerial photo EL_DDM Geodetic points	€10.3 Mill (2002)	152 (2002)
2	MoD Mapping Co	Government Dept	CG, Def, LG, Ret, Env, Tel	1:50K digital, 1:25-250 K analogue map 1:20K - 1:40K aero photos DTM	€6.4 Mill (2002)	160 (2002)
3	FlexiTón Kft	PLC	CG, LG, Tel, Edu	ARIADNE TÉRKÉPTÁR Contex	HUF 893 Mill (2002)	56 (2003)
4	Geometria Ltd.	PLC	CG, Uti, Tel	GTT (Geometria Telecom Template), SGM (Bandwidth Management System), Mirtusz (Outage & Work Management System)	HUF 877 Mill (2002)	80 (2003)
5	Geoview Systems Kft.	PLC	LG, Uti, Tel, Emg, Env,	DC, GL GISTools, Greenline MAP server, ÁrINFO etc.	HUF 600 Mill (2002)	34 (2002)
6	VARINEX Informatics, Inc	PLC		Autodesk 1:50K, 1:100K digital maps Address and Post codes DTM Geomark	HUF 558 Mill (2002)	22 (2002)
7	graphIT Ltd	PLC	Tra, Tel, Uti, Fin, CG, LG, Def,	Budapest 1:4k National Road Network GIS Database 1:200K Address Matching Intergraph GeoMedia Route-R	€2.2 Mill (2002)	18 (2002)
8	HungaroCAD Information Ltd	PLC	LG, Tel, Env, Uti, Ret	MapGuide; Autodesk products; AM/FM/GI Guidelines & application tailored systems for agriculture, rural development and environment protection	€1.3 Mill (2002)	14 (2002)
9	ESRI Hungary Ltd	PLC	CG, LG, Def, Edu, Ems, Env, Cri, Tra,	ESRI Products	€1,2 Mill (2002)	20

			Ret			
10	ALFÖLD-GIS Information Ltd		CG, LG, Def, Edu, Ems, Env, Cri, Tra, Ret	MicroAtlas-J MicroCity-J FireGIS Garmin GPS	€0.6 Mill (2002)	7 (2002)
11	GeoData Ltd	PLC	CG, LG, Uti	LaFIS LFK	€0.4 Mill (2002)	9 (2002)
	CadMap				Missing data	

N.B. The chart and structure of the escorting textual information was designed by Mark Probert for the EU IST Project GINIE in June 2003 for a static survey in 8 EU Member States and in Hungary but by permission it will be maintained by HUNAGI on regular basis. The chart and ranks are not official, serve for orientation and reference of the webpage visitors only. Information were supplied by the institutions/companies (Players) participated on voluntary basis. Ranked by yearly turnover. The figures given by the Players do not necessarily represent 100% GI-related-business. Players are responsible for updating their data. HUNAGI takes no responsibility in any manner for the content supplied by the Players. 1 euro is 257,54 HUF (Exchange rate of the Hungarian National Bank as of 27.08.2003)

Abbreviations:

CG	Central Government
LG	Local/municipality Government
Uti	Utilities
Tel	Telecomms
Tra	Transport
Ems	Emergency services
Edu	Education/Research
Ret	Retail and commercial
Fin	Financial
Def	Defence and Military
Hea	Health
Env	Environment
Cri	Crime
Prop	Property/Construction
Oth	Other – please add comments

Further explanation can be found in the enclosed EUROGI-GINIE document.

The National GI Association of Hungary is **HUNAGI** (www.hunagi.hu). It is a non-profit cross-sector umbrella association established in order to promote the competitiveness of Hungarian GI players in the rapidly growing European GI content market. It was founded in 1994 and registered by the court in 1996. It has full member status in EUROGI, became member of its Executive Committee and has been acknowledged as member of the steering committee of GSDI. HUNAGI community includes 79 member institutions, organisations and sustaining members from the private sector but has also student division.

Between 1996-1999, under the auspices of the Prime Minister's Office, Hungary established a National Spatial Data Strategy document and SDI core data definition in intersectorial co-operation involving the NGOs and academia, which brought together a number of strategies under a common plan and co-ordinated work being done in existing programmes such as the National Cadastre Programme, the National Topographic Program and the Aerial Survey of Hungary.

The main provider of GI in Hungary is the Ministry for Agriculture and Rural Development. Its institutional network includes 136 District and County Land Offices and the **Institute of Geodesy, Cartography and Remote Sensing (FÖMI)** (www.fomi.hu), a leading R&D institute in GI.

The activities of FÖMI are divided into the following sub-divisions:

- Department of Surveying,
- Management and Central Data Archive,
- Department of Land Registry,
- Section of State Boundary Survey,
- Department of Surveying and Cartographic Research,
- Satellite Geodetic Observatory and
- Remote Sensing Centre.

FÖMI makes a great deal of its GI products and services available on-line via its "[Land Information Services on the Web](#)" (FISH) website. Products and services available include:

- data (topographic mapping 1:10k – 1:100k, boundaries, DEM, Gazetteer, and CORINE),
- paper maps (1:10k – 1:200k and thematic mapping),
- cadastral mapping (1:1k – 1:10k), and
- services e.g. co-ordinate transformation.

The FISH website is also connected to [TAKARNET](#) the extranet of the Hungarian land-registry. The Hungarian Institute for Town and Regional Planning, which also belongs to the Ministry of Agriculture and Regional Development, is responsible for data used for regional development, an increasingly important area of policy in all the accession countries. Other key providers are the Mapping Agency of the Home Defence Forces, the [Central Statistical Office](#) (HCSO), which also has an Internet based mapping service, and the Ministry of Environmental protection.

The **Ministry of Defence Mapping Company** (www.topomap.hu) was formed on 1st January 2001 although the history of independent Hungarian military mapping goes back to the break up of the Austro-Hungarian empire and the creation of a “Hungarian Military Mapping Team” in 1919. The duties of the Ministry of Defence Mapping Company include the “supply of state basic data and maps to civilian users”¹. The Ministry of Defence Mapping Company also has a regulatory role for aerial surveying and the use of small and medium scale state topographic maps. As well as producing a range of paper wall maps, road and city maps for general consumer use it has been digitising maps since the early 1980's and has produced a Geodetic Database (GAB), 1:50k digital mapping ([DTA-50](#)), 1:200k digital mapping ([DTA-200](#)), and 10m x 10m and 50m x 50m digital relief models ([DDM-10 DDM-50](#)). It also produces cartographically enhanced [orthophotography](#) for settlements in Hungary.

Geometria Ltd. (www.geometria.hu) established in 1986 is a privately owned Hungarian company. Since its foundation Geometria has had a determining role in network information and has been the leading service supplier of geographical information system (GIS) applications in Hungary. Geometria provides turn-key solutions for the public utility, telecommunication and central government sectors. Geometria's products like Mirtusz supports the work of Call Centres and Dispatcher Service of the companies: Other Geometria's product GTT (Geometria Telecom template) is a frame system, which meets the basic requirements arising in the field of telecommunications, but it serves at the same time as a solid foundation to develop modules suiting special demands. SGM (Bandwidth Management System) serves the logical modelling of telecommunications networks, primarily high speed networks (e.g. SDH, PDH, IP, ADM, FrameRelay etc.).

Since 1991 **VARINEX Informatics, Inc** (www.varinex.hu) works especially on GIS and CAD market segments. They develop software applications on MapInfo and Autodesk platforms mainly for telecomms, transport, facility management and financial areas. One of the major special fields is the land development/water management using Autodesk technologies. They also deal photogrammetry and remote sensing applications. VARINEX performs its technical design (software development) activities in a controlled manner, in order to come up to the expectations defined in connection with the supplied services, the sold computer programs and the database products.

Founded in 1989, **ESRI Hungary Ltd** (<http://www.esrihu.hu>) is the Hungarian official representative of ESRI, Inc., the world leader in GIS software market. and as such is in a unique position to deliver a wealth of GIS experience and knowledge to the Hungarian market. Their wide customer base is, among many others, the governmental departments, public administrations, scientific institutes and educational institutes. The company can serve the customers from the consultancy and advisory task, through the system design, application development, training and system integration to the various unique GIS services.

Geoview Systems, (www.geoview.hu) founded in 1991, has a differentiated product and service portfolio for information technology market. Originally the firm focused on development of quality GIS systems and applications, furthermore Geoview was among the first enterprises who has realised and exploited the opportunities in internet based information systems. Nowadays, Geoview Systems provides complex system integration solutions for clients (enterprises and public institutions) applying

¹ [Hungarian MOD Mapping Company homepage](#)

information technology as a strategic resource. The main scope of activities includes *development* and sales of GIS systems, *registration* of public utilities, energy supply, telecom and other linear mode facilities, *development and implementation* of electronic and work-flow based applications for private and public organisations as well as *development and implementation* of internet based portal systems supporting flood prevention, water management, IT solutions, data gathering systems and other unique complex systems.

Founded in 1997, **graphIT Ltd** (www.graphit.hu) provides high quality products, services and solutions to help customers implement GI (geo-information) and PLM (product lifecycle management) systems. In its solutions graphIT uses the products of worldwide market leaders such as Intergraph Corp. graphIT develops and maintains digital map and content data about Hungary and develop GI solutions both for the internet/intranet and desktop environment.


Founded in 1991, **HungaroCAD Information Ltd** (www.hungarocad.hu) since then the one of the biggest Autodesk product distributor and authorized system centre. In the GIS field specialize on precision agriculture, environmental monitoring, GIS system of a small region as well as be connected with data carrier and gather GPS system and vehicle following system. One of the largest reference is from specialize in small region, vehicle service and scientific institution. (MTA TAKI) Our activity you can also find in the integrator system for a big project, individual GIS system development, consultation, administrator system.


Founded in 1990, **Alföld-GIS Ltd.** (www.alfoldgis.hu) on the grounds of its system integration experiences develops interdisciplinary GIS processes and works out end user solutions. Currently heading to develop platform independent applications without external GIS interpreter, meeting the OpenGIS requirements. Besides local network applications the Java developing environment permits efficient usage of the Internet.


GeoData Services Ltd. (www.geodat.hu, gdsh@axelero.hu) (est. in 1997) manages and realises large volume basic and special geo-information databases. The main field of specialisation within database servicing are: project management and realisation, capacity allocation, quality assurance and consultancy. The company offers effective database building within Hungary and in specific EU countries (Austria, Germany, The Netherlands). Projects are realised in long term commitment with the customers, many of the customers have been in connection with GeoData Services for several years. Most important customers are from the cadastral, topographic, agricultural and industrial database building.


Cadmap Ltd (www.cadmap.hu) Autodesk, Microstation


FlexiTon Ltd (www.flexiton.hu), a Finnish-Hungarian joint venture owned by private individuals, was established in 1990. FlexiTon has developed a GIS based turnkey solution called ARIADNE for managing complex telecom networks, enabled through years of experience of delivering software solutions and data, for leading telecom providers in Europe and in Japan. The ARIADNE product family members offer for wire based- and mobile network operators a wide range of services in resource/capacity management, network records, network planning, trouble ticketing, customer care. Parallel to the telecom solution development FlexiTon has built-up an operation for high quality, large quantity data production of GIS databases, digital terrain models, digital maps, engineering documents and has become one of the major data engineering companies.


Institute of Geodesy, Cartography and Remote Sensing (FÖMI)		a Member of HUNAGI
	Bosnyák tér 5, H-1149 Budapest, Hungary	
	Tel	+36 1 222 5101
	Fax	+36 1 222 5106
	email	eniko.kovacs@fomigate.fomi.hu
	www	www.fomi.hu


MoD Mapping Co – Hungary		a Member of HUNAGI
	22 P.O.B 85, H-1276 Budapest, Hungary	
	Tel	+(36 1) 212-0807
	Fax	+(36 1) 212-4223
	email	laszlo.buga@mhtehi.gov.hu
	www	www.topomap.hu


FlexiTon Kft		
	Prielle K. u. 4., H-1117 Budapest, Hungary	
	Tel	+36 1 4647700
	Fax	+36 1 2065142
	email	flexiton@flexiton.hu
	www	www.flexiton.hu


Geometria Kft		
	Montevideo. u. 6., H-1037 Budapest, Hungary	
	Tel	+(36 1) 240 7014
	Fax	+(36 1) 240 7019
	email	info@geometria.hu
	www	www.geometria.hu

Geoview Systems Kft.		
	Kiscelli. u. 104., H-1037 Budapest, Hungary	
	Tel	+36 1 240 7450
	Fax	+36 1 240 7454
	email	info@bp.geoview.hu
	www	www.geoview.hu


VARINEX Informatics, Inc		a Member of HUNAGI
	Kőszeg u. 4, 1141 Budapest, Hungary	
	Tel	+36 1 273-3400
	Fax	+36 1 273-3411
	email	voloncs@varinex.hu
	www	www.varinex.hu


graphIT Ltd		a Member of HUNAGI
	Montevideo u. 6, 1037 Budapest, Hungary	
	Tel	+(36 1) 436 9600
	Fax	+(36 1) 436 9606
	email	tamas.hennel@graphit.hu
	www	www.graphit.hu

HungaroCAD Information Ltd		a Member of HUNAGI
	Bogár utca 2b, H-1022 Budapest, Hungary	
	Tel	+36 1 326 8209
	Fax	+36 1 212 4209
	email	info@hungarocad.hu
	www	www.hungarocad.hu

ESRI Hungary Ltd		a Member of HUNAGI
	Terez krt 46, H-1066 Budapest, Hungary	
	Tel	361 428 8040
	Fax	361 428 8042
	email	esrihu@ind.eunet.hu
	www	http://www.esrihu.hu

ALFÖLD-GIS Information Ltd		
	Szigligeti út. 2., H-5000 SZOLNOK, Hungary	
	Tel	+36 56 513-986
	Fax	+36 56 344-706
	email	alfold@alfoldgis.hu
	www	http://www.alfoldgis.hu

GeoData Ltd.		a Member of HUNAGI
	Columbus u. 17-23. H-1145, Budapest, Hungary	
	Tel	+ 36 1 469 0033, + 36 30 922 5386
	Fax	+ 36 1 469 0034, + 36 1 469 0506
	email	gdsh@axelero.hu
	www	www.geoadat.hu

CadMap Ltd.		
	Columbus u. 17-23. II. 9., H-1145, Budapest, Hungary	
	Tel	+36-1-470-0303
	Fax	+36-1-470-0304
	email	mail@cadmap.hu
	www	www.cadmap.hu



GINIE

Geographic Information Network in Europe

Work item D2.1.1

Survey of key GI players within Europe

Questionnaire Notes

Author: Mark Probert

EUROGI - GINIE

Date: 09 June 2003

version: 1.0

1. Introduction

This questionnaire will contribute data to a survey of key GI players in Europe. This survey is one of the elements of the GINIE project. GINIE is an IST programme Accompanying Measure intended to develop a European Geographic Information Strategy based on the EUROGI Strategy. It is also concerned with GI Capacity Building and Awareness Raising. Together with surveys and reports from other GINIE work packages the survey of key players will provide a unique and important reference for the European GI community. The overall project conclusions will be presented at a final conference in Brussels at the end of 2003.

This survey of key players intends to identify and describe an important component of the developing European GI infrastructure – the organisations providing the products and services that represent the supply side of the market place. As well as identifying individual organisations it will attempt to provide some analysis of both the breadth and depth of the market. Its findings, in conjunction with other GINIE inputs and information from other sources (i.e. INSPIRE), will contribute towards the development of a European GI strategy and policy that can support:

- The development of the European Information Age and Knowledge economy;
- eGovernment;
- Transparent government at all levels within Europe;
- Harmonised citizen oriented services for the citizens of Europe;
- The development and implementation of a sustainable European spatial data infrastructure;
- Sustainable democracy within Europe;
- Sustainable policy formulation and implementation within Europe.

And as a result can maximise the effective use of geographic information for European government, commerce and the citizen.

This GINIE work package will result in a final report (by September 2003) entitled “*Report on the key GI players within Europe*” As one of the European GI Associations you are kindly asked to help with this report by completing the questionnaire in the attached spreadsheet.

2. Purpose of the survey

The effective implementation of a European GI Strategy will be influenced by a number of factors, including the roles played by the key GI players that already exist in each country and across Europe. The purpose of this GINIE work item is to:

1. Gather information through a survey of the key market players in geographic information throughout Europe in order to gain an improved understanding of the geographic information capacity within each country;
2. Rank the key players both at a national level and at a pan European level;
3. Estimate the influence the key players have on geographic information across Europe.

The work is being undertaken as a desk study using facilities such as the internet, email, fax, telephone, source books and trade catalogues published by the national GI associations, and trade organisations, results of market surveys, GI magazines (both paper and electronic) and other materials that may be available on the World Wide Web. The role of national GI associations will be crucial to the success of this survey as they are in a unique position to understand the complexities of their own national market.

3. Scope of the survey

National GI associations from the following countries shall be invited to participate in the survey: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Norway, Poland, Portugal, Slovenia, Spain, Sweden, Switzerland, The Netherlands, and the UK.

Other European countries will be considered if the information can be located and is available, all contributions will be welcome.

The survey aims to identify at least five and up to ten organisations per country. Clearly the number will vary according to the development of the GI market, and in some cases it will be difficult to restrict the number. It is important that this first pan-European snapshot should identify the top five players within each country surveyed. The top five can be judged by turnover, by market penetration, by their influence within the national market and other factors. National GI associations are asked to provide this judgement please, as well as listing a total of up to ten key players.

This survey is closely related to these GINIE reports:

1. The Survey and Analysis of National GI Associations;
2. The Analysis and Capacity Building Report of the National GI associations;
3. The [Final Report](#) and the [Recommendations for Action](#) resulting from the GINIE [Data Policy Workshop](#);
4. The GINIE consultation document and reports on the ABGI.

4. General information

A synopsis of this survey and all of the above mentioned reports will feed into the GINIE final Conference report that will be prepared and printed during September and October 2003 in time for the final GINIE conference that will take place in Brussels on the 13th & 14th November 2003, which will be targeted at up to 100 politicians and senior decision makers within the EC. Information regarding the GINIE project can be obtained from the web site: <http://www.ec-gis.org/ginie/>

Due to the timetable for the preparations for the final meeting I kindly ask you to return the survey by 30th June 2003 at the latest. Please return the spreadsheet containing the questionnaire by email. Any additional information that you can provide which might contribute to the final report will be most appreciated.

If you have any questions or need further assistance or clarification do not hesitate to contact me. Thank you in advance for your valued contribution and cooperation.

Looking forward to hearing from you,

Kind Regards

Mark Probert
Geolink Consulting Limited
Email: mark.probert@geolink-consulting.co.uk
Tel: +44 (0)23 80452112

Questionnaire guidance notes

On the attached spreadsheet are pages (1-10) to be completed for each of up to ten organisations for your country. The first page shows an example of one of the UK pages as a guide to help you.

Please try to complete at least 5, ranked in order, and as a minimum include the contact details in order to allow us to obtain more information directly.

Most of the sections of the form are self explanatory but please note the following guidance notes:

- Turnover (year) - please state the source year for your figure (and source if possible e.g. annual report)
- Employees (year) - please state the source year for your figure (and source if possible e.g. annual report)
- Country of ownership – The organisation may have its HQ in another country
- Main competitors – if known, organisations providing competitor products/services
- Contact – person or email for follow up information if required
- Rank 1-5*** – please try to rank the organisation in terms of importance in your country by indicating a position 1-5 or “other”
- Prod/Service – the name of the main one or two products and/or services provided
- Sector – this should state the three main market sectors served by the organisation in question:

CG	Central Government
LG	Local/municipality Government
Uti	Utilities
Tel	Telecomms
Tra	Transport
Ems	Emergency services
Edu	Education/Research
Ret	Retail and commercial
Fin	Financial
Def	Defence and Military
Hea	Health
Env	Environment
Cri	Crime
Prop	Property/Construction
Oth	Other – please add comments

Please add any supplementary information that you think might be useful, it will be very welcome.

*** This is most important please as you are best placed to evaluate the importance of these organisations to the supply of GI products and services in your country.