

HUNAGI - THE SPATIAL DATA INTEREST COMMUNITY IN HUNGARY

INTERDISCIPLINARY PARTNERSHIP BASED IMPLEMENTATION OF SDI THE CASE OF HUNGARY

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MUNICH, OCTOBER 8-13, 2006

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CONTEXT

APPLICATION INFRASTRUCTURE
 SPATIAL DATA INFRASTRUCTURE

THE INTEREST COMMUNITY

Source: The Digital Earth Concept

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CONTENT

THE SPATIAL DATA INTEREST COMMUNITY IN HUNGARY

MISSION & OBJECTIVES
 KEY ROLES
 ACTIONS
 STRUCTURE
 MEMBERSHIP
 PARTNERSHIP
 ORGANISATION
 COMMUNICATION

DIGITAL RESOURCES & SPATIAL DATA INFRASTRUCTURE

NSDI CORE DATA AS OF 1997
 ADOPTION OF THE INSPIRE: TAKING A CLOSER LOOK STRATEGY

CONCLUSIONS

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THE SPATIAL DATA INTEREST COMMUNITY IN HUNGARY

ESTABLISHMENT OF THE HUNGARIAN GI COMMUNITY (1994)

Goals: improving coordination, co-operation, networking, exchange of information and knowledge transfer.

HUNAGI FEATURES:
 INTERDISCIPLINARITY
 INTERSECTORITY
 INTERNET BASED NETWORKING
 LINKING STAKEHOLDERS AND OTHER PLAYERS
 HEAVY INTERNATIONAL BRIDGING

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MISSION GOALS AND OBJECTIVES

KEY ROLES
 ACTIONS
 STRUCTURE
 MEMBERSHIP
 PARTNERSHIP
 COMMUNICATION

- ★ **SERVING AND REPRESENTING THE GI COMMUNITY**
- ★ **TO STRENGTHEN THE INSTITUTIONAL LINKS BETWEEN THE MULTIDISCIPLINARY GI COMMUNITIES IN HUNGARY AND IN ABROAD**
- ★ **TO PROVIDE PLATFORM AND EXPERT FORUM BY MULTIAGENCY AND PUBLIC-PRIVATE PARTNERSHIP FACILITATING THE NATIONAL SPATIAL DATA INFRASTRUCTURE DEVELOPMENT**
- ★ **TO PROMOTE THE ACCESS AND USE OF GI**
- ★ **TO IMPROVE COORDINATION, CO-OPERATION, NETWORKING, KNOWLEDGE TRANSFER AND EXCHANGE OF INFORMATION IN EUROPEAN AND GLOBAL LEVEL**

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THE SPATIAL DATA INTEREST COMMUNITY IN HUNGARY

MISSION GOALS & OBJECTIVES

KEY ROLES
 ACTIONS
 STRUCTURE
 MEMBERSHIP
 PARTNERSHIP
 COMMUNICATION

KEY ROLES PLAYED BY HUNAGI :

- GI POLICY CONTRIBUTOR (SDI STRATEGY)**
- KNOWLEDGE AND INFORMATION SUPPLIER**
- PUBLIC RELATIONS, AWARENES RAISING AND PROMOTION OF GI**
- PROGRAM ASSISTANCE AND SUPPORT**
- POLITICAL INTERFACE, LOBBYIST**
- MEDIATOR, NEGOTIATOR**
- PROMOTER OF STANDARDS, CERTIFICATION**
- FACILITATOR IN EDUCATION AND TRAINING**
- AUTHORIZED COORDINATOR (UNSDI)**

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THE SPATIAL DATA INTEREST COMMUNITY IN HUNGARY

MISSION GOALS & OBJECTIVES
KEY ROLES
ACTIONS
STRUCTURE
MEMBERSHIP
PARTNERSHIP
COMMUNICATION

PARTNERSHIPS AND MOU

HUNGIS Foundation, Budapest

Eötvös University Chair of Cartography and Geoinformatics, Budapest

Federation of the Hungarian Agriinformatics

Térinformatika Journal

Hungarian Society for Purchasing, Logistics and Inventory (MLBKT)

HUNAGI MEMBERSHIP IN

EUROGI, Lisbon, Portugal

GSDI, Reston Va USA

GISIG, Genova, Italy

HUNAGI

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MISSION GOALS & OBJECTIVES
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COMMUNICATION

NEWSLETTERS

POSTERS, BROCHURES
NEWSBLOGS & DISCUSSION FORA
ENGLISH & HUNGARIAN
REPORTS

NATIONAL (GINIE, INSPIRE)
JOURNALS

GÉODÉZIA ÉS KARTOGRAFIA
TÉRINFORMATIKA, GIM
E MAIL

WEEKLY CIRCULARS ON RELEVANT NEWS, ACTIONS
WEB SITE

www.hunagi.hu




Accumulated number of website visitors (1999-2004)
In 2006: 43 300

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Statistics of the first week in October 2006



Category	Value	Change
...

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BACK TO PARTNERSHIP

INTRODUCTION ONE OF THE NEWEST PARTNER

EO GEO

„Our plan is to find and be involved open source projects mainly connected to environmental systems and GIS applications, and help to bring open source technology closer to the public and Institutions” puzsai@eogeo.hu

ACTIVITIES

EOGEO Hungary is involved with testing and help to develop the NASA / GSFC Global Change Master Directory (GCMD) Software.

- Oracle Database migration to the open source PostgreSQL database.
- Master Directory / Local Database Agent testing
- Assist with the Installation and testing of Master Directory software.
- Investigating Postgres / PostGIS option usage for geospatial search.

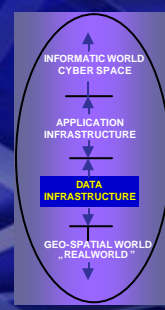
HUNAGI-NASA co-operation plan in GSMD-HUN version (2006)

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SPATIAL DATA

NSDI CORE DATA AS OF 1997
INSPIRE CORE DATA CATEGORIES
ADOPTION OF THE INSPIRE



NSDI IN HUNGARY

- ADVANCED PRODUCTS AS FUNDAMENTS IN GEODESY AND CARTOGRAPHIC PRODUCTS (1970-1980)**
- PRIMARY SPATIAL DATA DETERMINED AND INTRODUCED AT GSDI3 (CANBERRA, 1998)**
CADASTRAL AND TOPOGRAPHIC MAPS, METADATA CLEARINGHOUSE, PARCEL BASE REFERENCE SYSTEM, ADMINISTRATIVE BOUNDARY DATA OR TOPHO TO DATABASE, HARMONISED ADDRESS REGISTER.
- GI STRATEGY ELABORATION (1997-98)**
- INVOLVEMENT IN ISDE/INSPIRE (2001 -)**
- SDI STRATEGY ELABORATION (2004 -)**

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SPATIAL DATA

NSDI CORE DATA AS OF 1997
INSPIRE CORE DATA CATEGORIES
PREPARATION FOR THE ADOPTION OF THE INSPIRE (1)

FIRST ACTION IN HUNGARY: NSDI STRATEGY ELABORATION

- SET UP AD HOC COMMITTEE ON NSDI STRATEGY (2004)
- UNDER THE AUSPICES OF THE INTERMINISTERIAL COORDINATION COMMITTEE ON INFORMATION SOCIETY OF THE M o I INFORMATICS AND COMMUNICATION
- IN COOPERATION WITH THE SATELLITE NAVIGATION SUBCOMMITTEE
- ACTION APPROVED AND SUPPORTED BY THE GEODETIC SCIENCE COMMITTEE AND THE DIVISION OF GEOSCIENCE OF THE HUNGARIAN ACADEMY OF SCIENCES (FEBRUARY-MARCH 2005)
- IMPROVEMENT IN THE LANDS AND MAPPING SECTOR: NAME CHANGED TO LAND ADMINISTRATION AND GEOINFORMATION

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SPATIAL DATA

UNSDI CORE DATA AS OF 1997
INSPIRE CORE DATA CATEGORIES
PREPARATION FOR THE ADOPTION OF THE INSPIRE (2)

<p>Annex I</p> <ul style="list-style-type: none"> Coordinate reference systems Geographical grid systems Geographical names Administrative units Transport networks Hydrography Protected sites <p>Annex II</p> <ul style="list-style-type: none"> Elevation Identifiers of properties Cadastral parcels Land cover Orthoimagery 	<p>Annex III</p> <ul style="list-style-type: none"> Statistical units Buildings Soil Geology Land use Human health and safety Government service and environmental monitoring facilities Production and industrial facilities Agricultural and aquaculture facilities 	<p><i>Population distribution – demography</i></p> <ul style="list-style-type: none"> Area management/ restriction/regulation zones & reporting units Natural risk zones Atmospheric conditions Meteorological geographical features Oceanographic geographical features Sea regions Bio-geographical regions Habitats and biotopes Species distribution
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HUNGARY: DATA, PRODUCTS, SERVICES, APPLICATIONS

- Geodetic reference networks EUREF and JELN
- Active GPS Network
- National Cadastral Programme (full country coverage in vectorised form will be available in 2007)
- Digitised Land Registry and Internet based service
- Nationwide Land Cover (with enhanced CORINE nomenclature and 50 m resolution) CORINE Land Cover 2000 (new survey for change analysis and mapping)
- National Topographic Project
- National Orthophoto Database (based on the aerial survey flight taken in the year of the countrywide detailed agristatistical census)
- Area frame sampling based European Land Use Database (with enhanced resolution)
- Administrative Boundary Data
- Geo-referenced address register
- Operational crop monitoring & yield estimation
- EuroGlobalMap, EuroRegioMap
- Agricultural parcel-based identification and reference system
- Area-based subsidy control with remote sensing
- Local SDI: support for vineyard inventory
- Delineation of Less Favoured Areas
- Territorial information system
- Forest information and management system
- Nature conservation: GIS support for National Parks Natura 2000
- Soil database
- Meteorological, applications of GIS and RS
- Climatical modelling, Global Change related assessments
- Water Management, Hydrology
- Flood mapping, logwater damage mapping
- Precision farming
- Location based services
- Land administration incl. valuation, land use, land protection, land consolidation
- Rural development
- Urban and Regional planning
- Urban data management and utilities related applications
- Cross-border applications in transportation and environmental assessments
- Natural disaster mitigation
- Hazard and risk assessments
- Plant health and soil conservation
- Human settlements and impact analysis
- Air pollution
- Management of non-renewable natural resources
- Advanced documentation of Cultural heritages
- GIS applications in advanced learning
- Civil protection and defense

symbol indicates the services provided by **Institute FOMI** and its **RemoteSensing Centre**

COLOR CODE INDICATES RELATION TO
 BLACK: DIRECT POLICY SUPPORT
 RED: ANNEX I BLUE: ANNEX II GREEN: ANNEX III

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CONCLUSIONS

FUTURE OPPORTUNITIES INCLUDE

- eTEN, ECONTENTPLUS, INSPIRE, GMES, GALILEO, INFORMATION SOCIETY TECHNOLOGIES (IST)
- 7TH FRAMEWORK PROGRAMME OF THE EUROPEAN UNION (R+TD)
- INTEGRATED USE OF SDI EARTH OBSERVATION AND SATELLITE NAVIGATION TECHNOLOGIES (EG LOCATION BASED SERVICES)
- CONTRIBUTION TO GEO TASK IMPLEMENTATION
- UNSDI NATIONAL COORDINATION

SOME FORTHCOMING EVENTS PARTICIPATED BY HUNAGI MEMBERS

- eCONTENTPLUS STAKEHOLDER CONSULTATION MEETING DG InfS
- UNGIWG, Santiago
- GSDI-9, Santiago

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SUMMING UP

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REFERENCES

ZSOLT SIKOLYA HUNAGI	WWW.HUNAGI.HU	ALAN R STEWART GSDI	WWW.GSDI.ORG
DÉNES SZENDRO MoARD	WWW.FVM.HU	DEPARTMENT OF GEOINFORMATION	WWW.ISPRS.ORG
SZABOLCS MŰÁLY, PÉTER WINKLER, GÁBOR CSORNAI FOMI	WWW.FOMI.HU	LÁSZLÓ ZENTAI ICA	LAZARUS.ELTE.HU
VIKTOR PUSZTAI EOGEO	WWW.EOGEO.HU	BÉLA MÁRKUS ANDRÁS OSSKÓ FIG	WWW.FIG.NET
JÓZSEF ADÁM Hung.Academy of Science	WWW.MTA.HU	ALESSANDRO ANNONI European Commission	INSPIRE_JRC.IT

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THANK YOU FOR YOUR KIND ATTENTION

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