



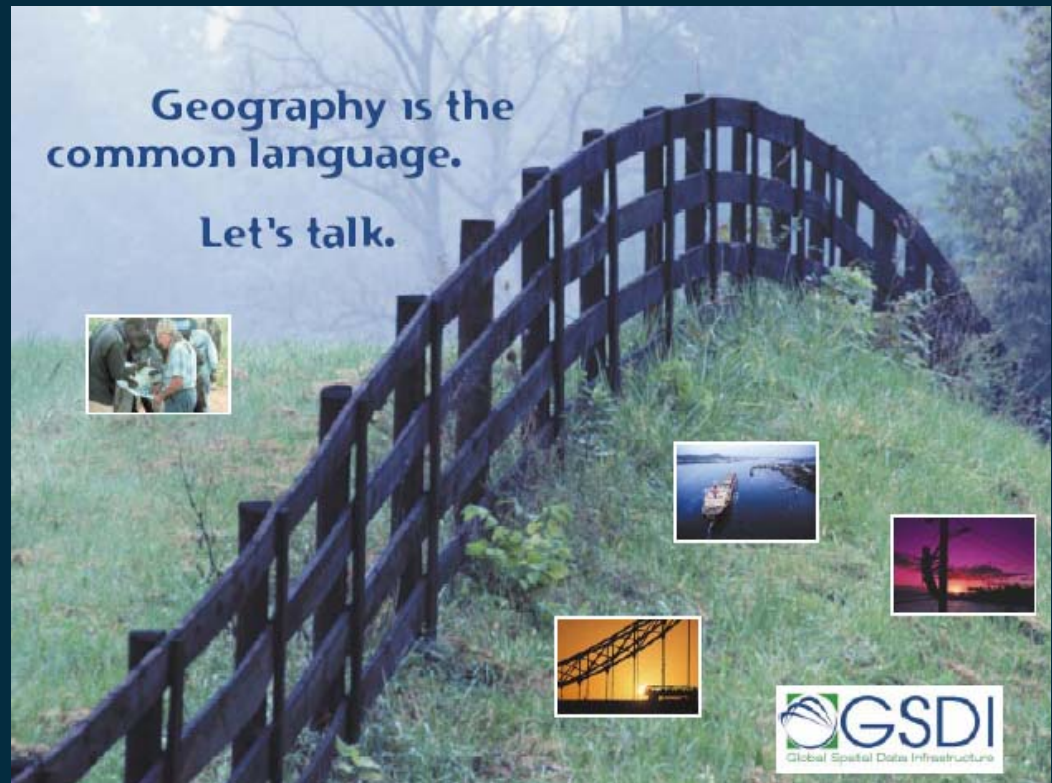
# Global Spatial Data Infrastructure

## Recent Developments and Future Challenges

Allan Doyle, Harlan Onsrud, Alan Stevens, Gabor Remetey  
GSDI Association

# Global Spatial Data Infrastructure Association

... a global forum to support exchange of ideas and encourage joint activities at the global level



# GSDI Association Mission

- Serve as a point of contact and effective voice for those in the global community involved in developing, implementing and advancing spatial data infrastructure concepts,
- Foster spatial data infrastructures that support sustainable social, economic, and environmental systems integrated from local to global scales, and
- Promote the informed and responsible use of geographic information and spatial technologies for the benefit of society.

# 5 Main Goals

1. Continue to promote and develop awareness and exchanges on infrastructure issues for all relevant levels from local to global.
2. Promote and facilitate standards-based data access/discovery through the Internet.
3. Promote, encourage, support, and conduct capacity building.
4. Promote and conduct SDI development research.
5. Collaborate with others to accomplish its Vision and Goals.

# GSDI Association Activities

- Achieve International Data Access and Usability
  - Training and capacity building on a global basis
  - Pursuit of universal licensing and sharing arrangements
  - Support of global registries
  - Support standards and interoperability
  - Encourage policies and legislation that promote access to and use of geographic data and services on a global basis

# GSDI Association Activities

- Engage
  - Government
    - Funding
    - Develop bilateral donor agreements for developing nations
  - Academia
    - Policy research
    - Review international legislation on data policy
    - Develop protocols for registration
    - Training
  - Industry
    - Assist in building registries
    - Outreach to clients to engage their participation
  - Everyone
    - Register data catalogs
    - Register data and service offerings

# Meetings

- GSDI 1 Bonn, Germany 4-6 Sept, 1996
- **GSDI 2 Chapel Hill, USA 20-21 Oct, 1997**
- GSDI 3 Canberra, Australia 17-19 Nov, 1998
- **GSDI 4 Cape Town, South Africa 13-15 Mar, 2000**
- GSDI 5 Cartagena, Colombia 21-24 May, 2001
- **GSDI 6 Budapest, Hungary 16-19 Sept, 2002**
- GSDI 7 Bangalore, India 30 Jan - 6 Feb, 2003
- **GSDI 8 Cairo, Egypt 16-21 April, 2005**
- GSDI 9 Santiago, Chile November 6-10, 2006

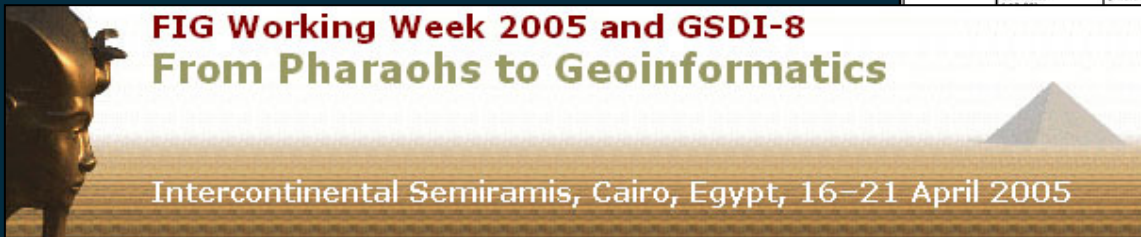
# GSDI-8 - Cairo

## April 16-21

[http://www.fig.net/pub/cairo/tech\\_programme.htm](http://www.fig.net/pub/cairo/tech_programme.htm)

- Joint meeting with FIG
- 900+ attendees
- 88 countries

	Fri April 15	Sat April 16	Sun April 17	Mon April 18	Tue April 19	Wed April 20	Thu April 21
08:30- 17:30		Registration	Registration	Registration	Registration	Registration	Registration
09:00-10:30	FIG Council Meeting GSDI Executive Committee	Pre-Conference Workshops (4) FIG ACCO Meeting GSDI Board Meeting	Pre-Conference Workshops (2) (Corporate Members) FIG General Assembly (09:00-13:00) GSDI Committee Meetings (3) (09:00-13:00) ISCGM Annual Meeting (08:00-13:00)	Plenary Session Opening of the Exhibits (10:30)	Plenary Session	Plenary Session	Parallel Sessions (2 + 1 for ISCGM) TS46-TS48 FIG President's Meeting (08:30-10:30)
11:00-12:30	FIG Council Meeting (-13:00) GSDI Executive Committee	Pre-Conference Workshops (4) FIG ACCO Meeting (-12:00)	Pre-Conference Workshops (2) (Corporate Members) FIG General Assembly (09:00-13:00) GSDI Committee Meetings (3) (09:00-13:00) ISCGM Annual Meeting (08:00-13:00)	Parallel Sessions (5) TS1-TS5 Exhibition	Parallel Sessions (5) TS16-TS20 Exhibition (10:30- ) Technical Tours (10:30- )	Parallel Sessions (5) TS 31-TS35 Exhibition (10:30-14:00) Technical Tours (10:30- )	Parallel Sessions (2 + 1 for ISCGM) TS49-TS51 FIG General Assembly (11:00-14:00)
			Pre-Conference Workshops (2) (Corporate Members) FIG Commission Annual Meetings (10) (14:00-16:30) GSDI Council Meeting (13:00-16:30)	Parallel Sessions (5) TS6-TS10 Exhibition	Parallel Sessions (5) TS21-TS25 Exhibition Technical Tours	Parallel Sessions (5) TS36-TS40 Technical Tours	Closing Ceremony (14:30-16:30)
			Pre-Conference Workshops (2) (Corporate Members) (-16:30) FIG Commission Annual Meetings (14:00-16:30) GSDI Council Meeting (13:00-16:30) Opening Ceremony (17:00-19:00)	Parallel Sessions (5) TS11-TS15 Exhibition	Parallel Sessions (5) TS26-TS30 Exhibition Technical Tours	Parallel Sessions (5) TS46-TS50 Technical Tours	GSDI Board Meeting (17:00-20:00)
19.00-	FIG Council Dinner GSDI Executive Committee Dinner	FIG ACCO Dinner	Welcome Reception	Egyptian Evening / FIG Foundation Dinner	Free	Gala Dinner	




# GSDI-9 Santiago Chile Nov 6-10 2006

<http://www.igm.cl/gsd9>

IX International Earth Sciences Congress

## Spatial Information

tool for reducing poverty

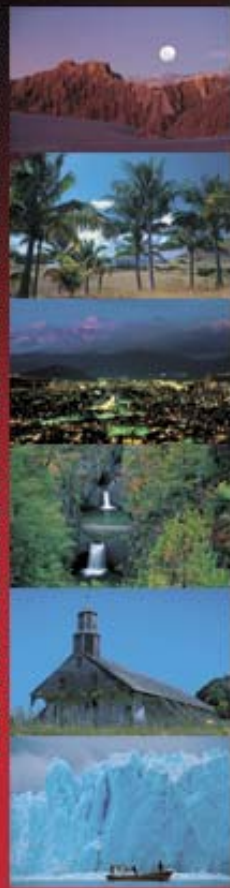


Santiago, Chile


Diego Portales  
Convention Center  
3<sup>rd</sup> to 11<sup>th</sup> of  
November, 2006

13<sup>th</sup> MEETING OF THE ISCGM  
GLOBAL MAPPING

**GSDI-9**  
9<sup>th</sup> INTERNATIONAL CONFERENCE  
FOR THE GLOBAL SPATIAL DATA INFRASTRUCTURE



[www.igm.cl/gsd9](http://www.igm.cl/gsd9)



# Structure of GSDI Association

- Non-Profit Organization
- emphasis on **inclusiveness** and democratic processes

# Working Groups

- Technical Working Group
  - Chair: Doug Nebert
- Legal and Economic Working group
  - Chair: Bas Kok, Kate Lance
- Communications Committee
  - Chair: Mark Reichardt
- Membership
  - Chair: Harlan Onsrud
- Special Projects
  - Chair: C.J. Cote
- Conference Planning Committee
  - Chair: Alan Stevens

# Membership

- Full, associate and individual memberships
- Agencies (national to local), companies (all sizes), academic institutions, non-profits, individuals
- Dues scaled upon approximate ability to pay

Full members form a Council which is the ultimate authority for the organization and also elects a Board

# Board of Directors (18 - most elected)

- **Officers** - President, President-elect, Past President
- **Sectors** - Industry, Government, Academia, Non-Profit
- **Regions** - Africa, Asia/Pacific, Europe, N. America, S. America
- **Permanent Regional Committees** - Europe, Africa, Americas, etc.
- **International & Global Organizations** - International Geographic Org., GSDI Related Global Initiative, International Industry Org.

## Ex-Officio Members of Council

# Ongoing Activities

- **Newslist** (news@godi.org - 1600 subscribers)
- **Monthly Regional Newsletters** - Africa, Latin America, Asia/Pacific (electronic)
- **Working Groups** - Technical, Legal & Economic, Standing Committees, etc.
- **Email Discussion Forums**
- **Small Grants Program**
- **Annual Meeting plus Training Workshops**
- **Affiliated Projects:** ESRI Global Map Grants, Intergraph Open Interoperability Grant Program

subscribe to the GSDI News List. Submit items to newsletters by contacting the editors.

- ▶ Association Information
- ▶ Newsletters
- ▶ News List Archive
- ▶ Discussion Lists
- ▶ Electronic Gateways
- ▶ Upcoming Conferences
- ▶ Publications
- ▶ Committees
- ▶ Projects & Programs
- ▶ Join GSDI Association
- ▶ Members & Sponsors
- ▶ Founding Members
- ▶ Contacts
- ▶ Members Only
- ▶ Site Search

The Global Spatial Data Infrastructure Association

### SDI-Africa Newsletter

Current Editor: Kate Lance ( lancekt@aya.yale.edu )

Those interested in spatial data infrastructure topics in this region might also be interested in participating in the SDI Africa Discussion List. Readers might also be interested in the Newsletters of EIS-Africa.

- [May 2006 \(pdf\)](#)
- [April 2006 \(pdf\)](#)
- [March 2006 \(pdf\)](#)
- [February 2006 \(pdf\)](#)
- [January 2006 \(pdf\)](#)
- [December 2005 \(pdf\)](#)
- [November 2005 \(pdf\)](#)
- [October 2005 \(pdf\)](#)
- [September 2005 \(pdf\)](#)
- [August 2005 \(pdf\)](#)
- [July 2005 \(pdf\)](#)
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- [June 2002 \(txt\)](#)
- [May 2002 \(txt\)](#)

### SDI-Latin America & Caribbean Newsletter

Current Editor: Nancy Aguirre ( cnaguirre@ipgh.org )



# Regional Spatial Data Infrastructures

- Africa: UN Economic Commission for Africa, Committee on Development: GEO (CODI-GEO)
- Americas: Pan American Institute for Geography and History and Permanent Committee on GIS Information for the Americas (PCIDEA)
- Asia and Pacific: Permanent Committee on GIS Infrastructure for Asia and the Pacific (PCGIAP)
- Europe: European Umbrella Organization for Geographic Information (EUROGI)

# GSDI involvement in global groups

- GEO Participant
  - <http://earthobservations.org>
- WSIS Participant
  - <http://www.itu.int/wsis/>
- ISO TC211 Class A Liaison
- CEOS WGISS Liaison
- Relationships with
  - OGC
  - International Society for Digital Earth
  - ISPRS (WG IV/1 SDI chaired by JJie (CHI) and ABarsi (H))

# Current Projects...

Developing Spatial Data Infrastructures:

## The SDI Cookbook

Version 2.0  
2004

Release for Review at the Fourth Global Spatial Data  
Infrastructure Conference, Cape Town, South Africa



Editor: Douglas D. Nebert, Technical Working Group Chair, GSDI

*Disclaimer: This draft represents a work-in-progress that has been compiled from numerous contributions and available online documents contributing organisations. Full acknowledgement of contributions and citations will be provided in the initial public draft.*

Document Available  
At:

<http://www.gsdi.org>

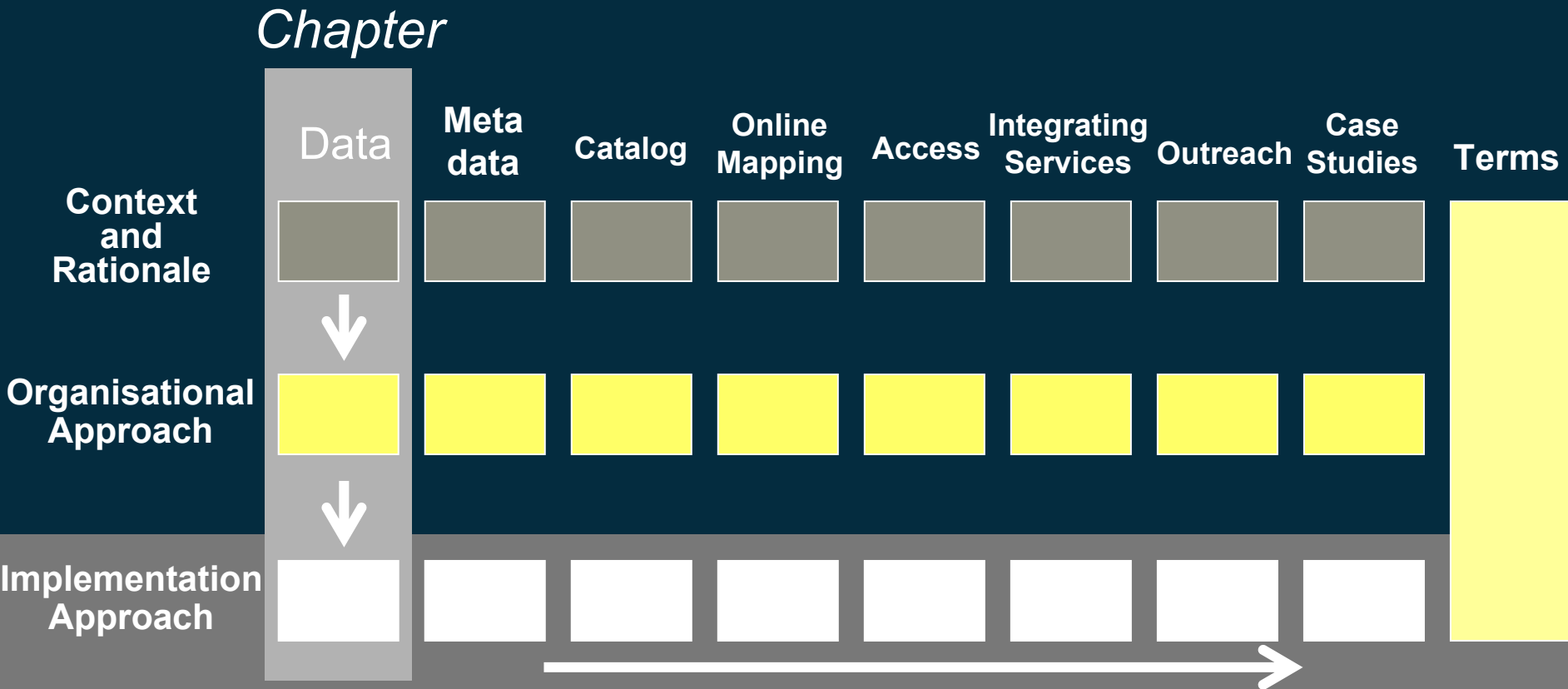


# Current Projects...

## Cookbook - announcing version 2.0:

- Doug Nebert; Editor in Chief
- It contains contributions from many nations
- FGDC/GSDI will maintain it and make it available on the GSDI website
- It is a living document
- Previous editions have translations available in Spanish, Chinese, Polish

# Cookbook Design Concept



# Global Commons and Global Marketplace in Geographic Data

- redirect technological and legal approaches towards providing incentives for sharing locally collected data and enabling sharing
- new conceptual approach

- See

<http://www.nap.edu/catalog/11079.html>

<http://www.spatial.maine.edu/geodatacommons>

# Electronic Gateways

## GSDI Gateway

The GSDI Gateway provides access to catalogs of data and online map services around the world. This gateway is being improved and adapted over time by the GSDI Technical Working Group.

## Spatial Data Infrastructure Literature Search

This facility provides access to literature compiled on spatial data infrastructure and closely related topics. Volunteers willing to continually update the facility are needed and should contact the Communications Committee

## Spatial Data Infrastructure Web Links

Links to other SDI web sites are provided here organized under the following categories: Other Global Initiatives, Regional SDI's, National SDI's, Local SDI's, and Other Links.



This screenshot shows the GSDI Gateway homepage in a Microsoft Internet Explorer browser window. The browser title is 'Home - Microsoft Internet Explorer'. The address bar shows 'http://gateway.gsd.org/web/guest/home'. The page features a navigation bar with 'Home' and 'Find/View'. The main content area is divided into several sections: 'My Account' with a login form for 'compusult.net'; 'Featured Maps' with a map of the Pacific and Atlantic Oceans and a link to 'Nasa World Imagery'; 'News' with 'Top stories' including 'U.S. officials respond to U.N. questions on torture' and 'Former South African leader is cleared of rape charges'; and a 'Calendar' for 'Monday, May 8, 2006' showing no events. A 'Simple Search' box is on the right. The bottom of the browser shows the Windows taskbar with the Start button and several open applications.

This screenshot shows the 'Spatial Data Infrastructure Links' page in a Microsoft Internet Explorer browser window. The browser title is 'Spatial Data Infrastructure Links - Microsoft Internet Explorer'. The address bar shows 'http://www.gsdassociation.org/SDLinks.asp'. The page has a navigation bar with 'Home', 'Contacts', 'Members Only', and 'Site Search'. The main content area is titled 'Spatial Data Infrastructure Links' and includes a section for 'Other Global Initiatives' with a list of link names and descriptions, such as 'Consortium for Spatial Information', 'Consultative Group on International Agriculture (CGIAR)', 'Digital Earth', 'Earth Explorer', 'Geographic Information Systems in Sustainable Development', 'Global Disaster Information Network (GDIN)', 'Global Land Cover Facility', 'Global Map', 'Global Resource Information Database (GRID)', 'Global Water Information Network (GLOBWINET)', 'Intergovernmental Panel on Climate Change (IPCC)', 'International Civil Aviation Organization (ICAO)', 'International Geosphere - Biosphere Program (IGBP)', 'International Organization for Standardization of Geographic information/Geomatics ISO/TC 211', 'NatureServe', 'Open Geospatial Consortium (OGC)', 'Shuttle Radar Topography Mission', 'United Nations Geographic Information Working Group (UNGIWG)', 'United Nations Research Institute for Social Development', 'United Nations System-Wide Earthwatch', and 'World Bank Development Gateway'. A 'Regional SDI' section is also visible at the bottom. The bottom of the browser shows the Windows taskbar with the Start button and several open applications.

# GSDI Members (1)

- Addis Ababa University, Ethiopia
- Atlantic Institute, US, Canada
- CIESIN - Columbia University, US
- UN Committee on Development Information (CODI)-Geo
- Delft University of Technology, Netherlands
- Department of Science and Technology, India
- EIS-AFRICA, South Africa
- ESRI, Commercial
- Eurogeographics, Europe
- European Umbrella Organization for Geographic Information (EUROGI)
- Federal Geographic Data Committee (FGDC), US
- GISPOL - National Land Information System Users Association, Poland

# Close-look: Europe

## Major GSDI member organisations on European level

- Eurogeographics (NMCAs)
- European Umbrella Organization for Geographic Information (EUROGI) (interdisciplinary)
  - NGIAs, Industry, thematic organisation: EARSC
  - Network of more than 6500 institutions, organisations and experts
  - WAGs (data, data access, users, communication, int'l affairs)
  - Activities: WebCastle, MemberDays, Extension

## Enabling tools as driving forces in Europe

- INSPIRE
- GMES/GEOSS
- GALILEO
- E-ContentPlus, i2010

Members of NMAs & NGIAs closely involved in actions of these dedicated initiatives, programmes and projects

If no menu appears, download [Java software](#).

# EUropean umbrella Organisation for Geographic Information

ANY word



**EUROGI**

**EUROPEAN CASE STUDIES**

**EUROPEAN GEOGRAPHIC INFORMATION**

**EUROPEAN INFORMATION**

Latest news

Geographic information

About us

Members' profiles

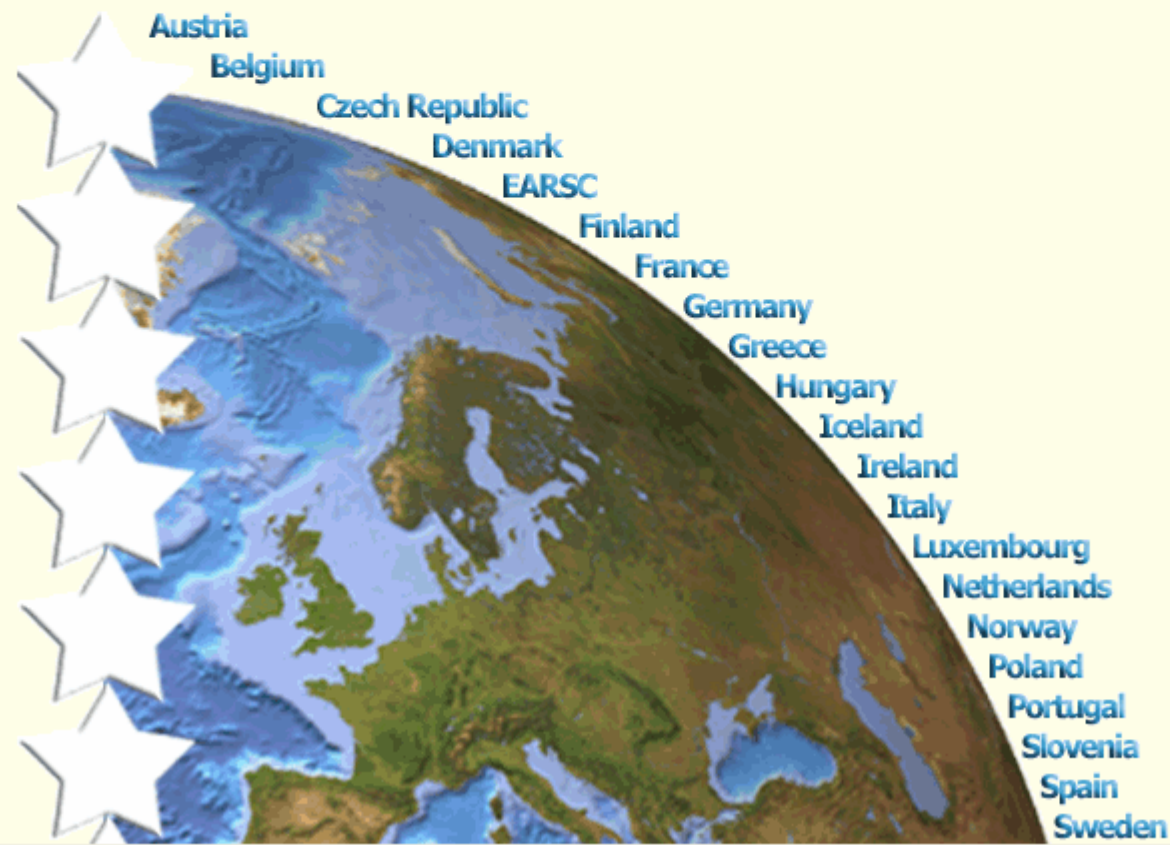
Calendar

EU People

Links

Members only

Contact us



# European GI Network

Warsaw, EC GI/GIS Workshop, 2004

- **European Geographic Information Network**
- ad hoc Members (the Secretary Generals of Pan European associations):
- AGILE, **Association Geographic Information Laboratories Europe** - Fred Toppen
- CLGE, **Council of European Geodetic Surveyors** - Gerda Schennach
- EARSC, **European Association of Remote Sensing Companies** - André Jadot of Eurosense (member of EARSC)
- EuroGeographics - **Organisation of the NMCAs** Nick Land
- EuroGeoSurveys - Patrice Christmann
- EUROGI, **EUROpean umbrella organisation for Geographic Information** - Joao Geirinhas
- EuroSDR, **European Spatial Data Research** - Kevin Mooney
- GISIG, **Geographical Information Systems International** - Giorgio Saio
- JRC, **Joint Research Centre** - Alessandro Annoni
- OGC Europe, **Open GIS Consortium (EUROPE) Ltd** - Guenther Pichler
- UDMS **Urban Data Management Society** - Elfriede Fendel
- WPLA, **Working Party for Land Administration** - Peter Kreuzer

# GSDI Members (2)

- National Spatial Data Centre, Malawi
- National University of Lesotho
- Open Geospatial Consortium, Int'l
- Pan American Institute of Geography and History (PAIGH)
- Regional Centre for Training In Aerospace Surveys (RECTAS), Nigeria
- Spatialnetworks Pvt. Ltd. (Associate), India
- State Bureau of Surveying and Mapping of China (SBSM), China
- University College of Lands and Architectural Studies (UCLAS), Tanzania
- University Consortium for Geographic Information Science (UCGIS), US
- University of Zimbabwe

# GSDI Members (3)

- Hungarian Association for Geo-information (HUNAGI)
- Indian Space Research Organisation Headquarters
- Institut Cartografic de Catalunya (Associate), Spain
- Intergraph Mapping and GeoSpatial Solutions, Commercial
- International Society on Digital Earth, China/Int'l
- ITC International Institute for Geo-Information Science and Earth Observation, Netherlands
- IGM (Military Geographic Institute of Chile)
- Leica Geosystems, Commercial
- National Geographic Information Infrastructure Programme, Survey Department, Nepal
- National Geospatial-Intelligence Agency, US
- National Land Survey of Finland
- National Resources Canada
- National Space Research and Development Agency (NASRDA), Nigeria

# Close-look: Hungary

## Main drivers:

- MoIC/HSO (Space Agencies, GEO)
- MoARD/FÖMI (EU, ESA, UNSDI GeoNetwork etc)
- MoEW/GRID (European Institutions, inc. EEA, UNEP GRID etc)
- HMetS (EUMETSAT)

## GI/RS community

- HSSMRS (ISPRS, FIG, ICA) professional oriented
- HUNAGI (EUROGI, GSDI, ISDE, GEO, JRC/SDIC) interdisciplinary
  - Data, information and Service providers
  - Value added products and solution providers
  - R+TD, Education
  - Decision makers (governments)
  - Business
  - Over 100 member institutions, organisations
  - [www.hunagi.hu](http://www.hunagi.hu), <http://hunagi.blogspot.com>



# Geospatial Hungary

Goal is to provide more visibility on Hungarian developments, achievements, applications and services related to spatial data infrastructure with special emphasis on the European and Global context. HUNAGI's comprehensive News, Links and Visual Resources Collection is also linked for comments. Keywords: SDI, GI, GIS, Earth Observation, Satellite Navigation & Positioning, Remote Sensing, Networking

## CONTRIBUTORS

- [RFG](#)
- [Competterra](#)

## PREVIOUS POSTS

- [Meeting of the WG on Information Systems and Services opened in Budapest](#)
- [HUNAGI activities in the GSDI Association](#)
- [Meeting of the Geodetic](#)

MONDAY, MAY 08, 2006

## ● ● ● Meeting of the WG on Information Systems and Services opened in Budapest

Participants of the Meeting chaired by Ivan Petiteville Image: HUNAGI Visual Resources



**The CEOs WGISS Meeting was opened by Deputy State Secretary of MoARD Dr. Norbert Berczi**

The text of the opening speech you can find [here](#)

posted by RFG @ [5/08/2006 09:49:00 PM](#)

● [0 comments](#) ● [links to this post](#)  

FRIDAY, MAY 05, 2006

## ● ● ● HUNAGI activities in the GSDI Association



Objectives of HUNAGI

Posting

[Settings](#)

[Template](#)

[View Blog](#)

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[Edit posts](#)

[Moderate comments](#)

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[Create new post](#)

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Search:

Date	Post Title		
08/2006	<a href="#">Edit</a> ▶ Meeting of the WG on Information Systems and Services opened in Budapest	RFG	<a href="#">View</a> <a href="#">Delete</a>
05/2006	<a href="#">Edit</a> ▶ HUNAGI activities in the GSDI Association	RFG	<a href="#">View</a> <a href="#">Delete</a>
04/2006	<a href="#">Edit</a> ▶ Meeting of the Geodetic Commission of the Hungarian Academy of Sciences on topics having historic...	RFG	<a href="#">View</a> <a href="#">Delete</a>
03/2006	<a href="#">Edit</a> ▶ New Hungarian Officer in the ISPRS	RFG	<a href="#">View</a> <a href="#">Delete</a>
03/2006	<a href="#">Edit</a> ▶ GeoNetwork - a program of the UNGIWG and UNSDI	RFG	<a href="#">View</a> <a href="#">Delete</a>
02/2006	<a href="#">Edit</a> ▶ Talks of World Bank representative at DLAG MoARD and technical visit in a District Land Office in Bud...	RFG	<a href="#">View</a> <a href="#">Delete</a>
01/2006	<a href="#">Edit</a> ▶ Activities of ISPRS WG on SDI under Chinese-Hungarian co-chairmanship in 2005	RFG	<a href="#">View</a> <a href="#">Delete</a>
09/2006	<a href="#">Edit</a> ▶ Some selected recent presentations and papers on NSDI, Strategy and HUNAGI	RFG	<a href="#">View</a> <a href="#">Delete</a>
08/2006	<a href="#">Edit</a> ▶ GI-INDEED a Leonardo Pilot Project participated by two Hungarian partners	RFG	<a href="#">View</a> <a href="#">Delete</a>
08/2006	<a href="#">Edit</a> ▶ CEOS WG Meetings and Hungarian Session between 8-12 May in Budapest	RFG	<a href="#">View</a> <a href="#">Delete</a>
08/2006	<a href="#">Edit</a> ▶ Two New Proceedings Edited by Prof.Márkus published by the College of Geoinformatics	RFG	<a href="#">View</a> <a href="#">Delete</a>
08/2006	<a href="#">Edit</a> ▶ Reception given by the Dutch Ambassador	RFG	<a href="#">View</a> <a href="#">Delete</a>
08/2006	<a href="#">Edit</a> ▶ FIG Workshop opened in Budapest on 27th April	RFG	<a href="#">View</a> <a href="#">Delete</a>
07/2006	<a href="#">Edit</a> ▶ Hungary is the 64th Member of GEO	RFG	<a href="#">View</a> <a href="#">Delete</a>
02/2006	<a href="#">Edit</a> ▶ FIG Workshop in Budapest April 27-29, 2006	RFG	<a href="#">View</a> <a href="#">Delete</a>

# Back to GSDI: What do we want to keep doing.....? .... or do better?

- Improve the Cookbook
  - Enhance the case studies
- Small grants
  - Attract partners to leverage resources
  - Broaden impact
- Provide services
  - Geo-Portal
  - Web -- applications

# Encourage capacity building

- Conduct SDI awareness training
- Facilitate the sharing of information
- Collect case examples of best practices
- Provide on-site support as requested for hands-on work
- Conduct follow-up activities/incentives
- Establish a knowledge infrastructure

# Promote and conduct SDI development research

- Stimulate the academic community to conduct research relating to SDI development
- **Maintain an online SDI library of reference material**
- Implement a small grant program in support of SDI research
- **Facilitate networking of SDI researchers around the world**
- GSDI9 Refereed Book on SDI Research

# Conclusion

- GSDI serves as effective focal point for Global Spatial Data Infrastructure information and help
- GSDI - WGISS liasion to be strengthen to facilitate sharing of information
- GSDI9 SI-tool for reducing poverty Santiago, Nov 6-11
- Establish a knowledge infrastructure by synergy of co-operation and collaboration
- Contribution to GEO Agenda implementation
- Serving the user facilitating availability, accessibility, useability of spatial data by improved, interoperable infrastructure

# Additional Information

<a href="http://www.gsdi.org">www.gsdi.org</a>	Global Spatial Data Infrastructure
<a href="http://www.eurogi.org">www.eurogi.org</a>	European Umbrella Org. for GI
<a href="http://www.pcgiap.org">www.pcgiap.org</a>	Permanent Committee on GI for Asia and the Pacific
<a href="http://www.cpidea.org.co">www.cpidea.org.co</a>	Permanent Committee for the Americas
<a href="http://www.codigeo.org">www.codigeo.org</a>	Permanent Committee for Africa
<a href="http://www.opengis.org">www.opengis.org</a>	Open Geospatial Consortium
<a href="http://www.fgdc.gov">www.fgdc.gov</a>	Federal Geographic Data Committee

Thank you for your attention!