

Global Spatial Data Infrastructure Newsletter



January 2004

Global Spatial Data Infrastructura Secretariat

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GSDL7

GSDI Grante PC IDEA

NLIS of Chile

MACGA

IDEMEX International Institute

for Geo-Information Science And Forth Observation (Itc)

Mr. Ohsung Kwon SDI Newsletters

WELCOME To the first edition of the

GSDI Newsletter. Printed twice yearly.

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GSDI Secretariat U.S. Geological Survey MS 590 Reston, VA 20191

About Global Sustial Data Infrastructure

GSDI is a slobal and onen process for coordinating the organisation, management and use of secspatial data and related activities. It encompasses the policies, organisational remits, data, technologies, standards, delivery mechanisms, and financial and human resources necessary to ensure that those working at the global and regional scale are not impeded in meeting their objectives.



GSDI Formalizes Organization

Amid the gothic architecture of St. John's College at historic Cambridge University, the Association was formalized in July of 2003. At its July meeting in Cambridge, England, the GSDI Association approved its By-Laws. giving formal structure for the first time, to the Association Durine its nearly eight centuries Cambridge University has seen many timeless events take place on its campuses. In the history of mapping and particularly digital spatial data, however, the formation of the GSDI Association marks a significant milestone in the view that people will have of their world.

The GSDI was created in 1996 as a loose gathering of visionaries, dedicated to promoting global spatial data, accessible through the Internet. The primary numous of the GSDI at that time was to gather mapping and chartine leaders from around the world on an annual basis, to discuss ideas and techniques for promoting the infrastructure to accomnlish that task. Fine conferences were held in Europe, Africa, Europe, North America, and South America. By the time of the Sixth GSDI Conference in Budapest, Hungary, in September 2002, the Conference was attracting

representatives from more than fifty countries.

In August 2002, the GSDI Association began with its incorporation in the Commonwealth of Virginia. In July of 2003, the GSDI Council. was invited to hold its meeting at the quadrennial Cambridge Conference. The Cambridge Conference is hosted by the UK Ordinance Survey, and brings together the elite of the marrine world. By inviting the GSDI to hold its meeting during the conference, this elite gathering gave recognition to GSDI as the leading global proponent of spatial data.

Also approved at the meeting were the dues structure, allowing the GSDI to accept paying members and contributions, and an initial version of the vision, goals, and objectives of the Association. The vision is to "Support all. societal needs for access to and use of spatial data." Key elements of the GSDI efforts will include 1) awareness and exchanges or infrastructure issues, 2) standards-based data



access/discovery through the Internet, 3) capacity building, 4) SDI development research, and 5) active programs for funding and resources to accornalish its Vision and Goals.



In Association will approve the first draft of its Strategic Implementation Plan at the Seventh GSDI Conference in Bangalore, India, in February 2004.



GSDI-7 - India Beckons

The GSDI-7 Conference will be held in Bungalore, India. The Conference is scheduled for February 2-6, 2004. The bost for the Conference will be the Indian Space Research Organisation (ISRO) and the Department of Science and Technology (DST) of the Indian Government.

bols is well known as a nexist colours with proof tradition, which was been described by the processes a strong foundation of schemberg and fundations for the colours of the schemberg and fundation in the colours of the colours of

Bangalion. The Gardan City, is known for its friendly people, and is the Captial of Ramitals State. Its peopred for a subtriction climate with temperatures saying between 68 and 50 f. The official language its fraunds, but English is widely spellen and understood. It is well connected by air to many mayor Indian and understood. It is well connected by air to many mayor Indian and concellent level in super order to the second of the connection, and concellent level transportation via tusts and 3 wheelers. It is also the becarboning in the failing, the fails in time of many major multitantienal technology wealers, and is on par with the world as host of a variety of public and caudentif instaltations.

There is a range of good accommodations at varying prices in the area, with a number of lixuary boxiels close by the modern convention centre. There are many things to see and do in the reva. (including Nands Hills. a gettersque thill-stick, the Nagarbole Tiger Reserve, and the Lalbugh Botanical Gardens, and it is within 600km of Mysow, Oosy, Chenrui, Kerala, Hydersbad, and Geo.

The theme for GSDI-7 is "SDI for a Sustainable Future". The programme features a pre-conference tutorial and international exhibitions. The Conference itself will have one 2-hr plenary on a major topic daily, four or five speakers and discussions, presentation seasons, both parallel and yolan, 1-hr panel debates on key topics, poskers, and tele-seasions.

The subject of the Pre-Conference Tutorial will be "Spetial Technologies and Applications". In will be held from January 30-31, 2004 (Fri and Sat). From 50-78 participants are expected targeting Aish Deside rations. The tutorial will focus on global case studies and on global programmes such as ISCCM, Global Mup. The International Society for Photogrammetry and Remote Sensing, and others.

The subject of the exhibition will be "Spatial World". The fores will be on the international SII pages and will bright on Ania-Bucile the best of schmology and applications show cantrol and the subject of the subjec

In short, a good conference and a good time. We will see you in Bangalore.

GSDI Grants Rear Fruit

GSDI has set aside some money for a small grant program. The dollar value of the grarts is small, generally about US\$5.00 and deterly not enough to furd a complex NSII. The intent is to give a program a "jump start" through neureness campaigns and through weekshops. As a result of the support of GSDI grants, SDI workshops were recently held in Zimbabwe and Nijeria.



He welcomes any information from you and can be reached at okwon60 godi.org or +(703)-648-5452

Regional SDI Newsletters

There are many activities within Africa over the past months, too many to his bene. An excellent source for information on African SDI activities is the SDI-Africa Newsletter www.gsdi.org/pubs/2/html#SDINEWS

A new newsletter has been added for the Asia/Pacific region, modeled on the success of the SDL Africa newsletter. Co-sponsored by PCGAP and GSDL, it can be found at www.gsdi.org/ pubs/2 html#SDL-APNEWS and at www.gsdi.org/ such pages/stam/GSDL.

A newsletter for the Mesoamerican and Caribbean region is under development.

New Secretariat Internship - Mr. Ohsung Kwon

Mr. Obsung Kwon has recently joined the FGDC as an intern from Korea to work with Dr. Alan R. Stevens who is the International Program Manager and principal support for the GSDI Secretarist from the FGDC.

Obung received his M.S. in Trunsport Planning and Engineering in 1996, from the University of Leeds in the United Kingdom. He worked for the Ministry of Construction and Transportation of Korean Government, which is responsible for SDI in Korea before he joined PGIDC.

He is helping Dr. Alam R. Sweens with capacity building for the Spatial Data Infrastructure (SDD Horsephore the AsiaPineSiric community, He will assist in designing and implementing capacity building activities throughouth the region. For this papers, he is investigating SIX related websites throughout the relation of the property of the property of the property of the property information for Asia and the Peckie (PCGLAP), is discover the goals and objectives of SDI bodies and websites for SDI activities in the region.

He eagedly wants to glean information on coming, carnett, and post SDI and Goognephic Information (GI) activities used as conferences, workshops, training as well as progress in both the SDI policy and dechrical arease, clearing-toolsy-ported establishment, restablist development, such and control of the control of th the execution of the Program, which is the basic instance for the ordering and regulation of national productive activities, establishine priorities and puttine objectives and eoals in proper order. In its concentual aspects the Program holds specific considerations on the IDEMEX.

For the dissemination of the idea around IDEMEX, information is being put on the Web site of the INEGL On the other hand, in INEGI several steps have been taken contributing to the IDEMEX. which go from the continuous production of geographic information, to the incorporation of the most modern technologies, concepts development on fundamental data, generation of metadata, establishment and operation of a Clearinghouse and Gateway, the development of a program on generation and undating of geospatial standards, the conception and present development of the Geographic Database, the building of important alliances and links to other national, regional and world-wide organizations, and other actions as related to the implementation of the IDEMEX.

Mexico, through INEGI aspires to contribute to the regional development of geospatial information through its gained experience in geographic information development, putting also at service its capacity in education and training, as well as on institutional strengthening. This explains its presence and participation in the Panamerican Institute of Geography and History (PAIGH), as well as in PCIDEA, within which, by holding at the moment the presidency of the organization, will try to play a significant role in benefit of member countries.

INTERNATIONAL INSTITUTE FOR GEO-INFORMATION SCIENCE AND EARTH OBSERVATION (ITC)

PO Box 6, 7500 AA Enschede, the Netherlands

Email: pr@itc.nl

Internet: http://www.itc.nl

technologically less advanced.

ITC is the largest institute for international higher education in the Netherlands, providing international education, research and project services. The aim of ITC's activities is the international exchange of knowledge, focusing on capacity building and institutional development in countries that are economically and/or

The knowledge field of ITC is geo-information science and earth observation, which consists of a combination of tools and methods for the collection - through aerospace survey techniques -. storage and processing of geo-spatial data, for the dissemination and use of these data and of services based on these data.

Client orientation At the heart of ITC's activities are capacity building and institutional development. Enschede forms the home base for ITC's degree-oriented education. The international educational system at ITC is intended primarily for mid-career professionals and scientists from less developed countries.

Education

following fields:

ITC has a scientific staff of some 200 professionals of more than 30 nationalities. Since its foundation, more than 15,000 students from over 160 countries have completed courses at the Institute. The Institute offers six educational programmes with different specialisations, leading to Master of Science (MSc) or Professional Master's (PM) degrees and diplornus covering the

- Geo-informatics Geo-information Management
- Urban Planning and Land Administration Natural Resources Management
- Water Resources and Environmental Management Earth Resources and Environmental Geo ecianous

ITC also offers short courses and tailor-made courses of varying duration

For more information about education at ITC please go to www.itc.nl/education

Research ITC carries out a multidisciplinary and problem-oriented

research programme in support of its education and project services. This research programme focuses on the provision of geoinformation and earth observation for:

- the strengthening of civil society, e.g. land administration, public administration, cadastre and survey organisations multifunctional use of space, e.g. urban and rural planning
- and management natural disasters and environment, e.g. flooding and landslides (mitigation and relief)
- food and water security, e.e. water for food production, early warning systems and crop forecasting global change monitoring, e.g. biodiversity and habitat.
 - For more information about ITC's research programme please go to www.itc.nl/research

Project services

ITC's project services often serve as a follow-up service to alumni and their organisations. Since its foundation, ITC has completed a wide variety of project assignments (over 1000) around the world. ITC is registered with all major international (project funding) organisations. The majority of these projects are executed in economically and technologically less developed countries and emphasise institutional development and capacity

- building. ITC's project services include: Institutional development
 - Contract training Contract research and development Advisory services

For more information about ITC's project services please go to

MACGA

MACGA's is a poject implemented by the U.S. Coological Survey/EMOS Back Gener (DEC, <u>https://cisi.im.cuse.gov/</u>) in cooperation with several partner organizations. MACGA strives, as an "hilance" of organizations with shared interests, to feelile, tate the development of spatial data using appropriate methods and standerds, sostir officient data management, support data seccess and dissemination, and encourage the development of organization particular in the approx of Measumerics and the Caribbons. — Spatial data protectioned with appropriate instandards. In the control of the control of the control of the control of the caribbons.

The Mesoamerican and Caribbean Geospatial Alliance

With one funding from USAID, and support from national and immunitural agreeises, the MACOA project features an ambificus capacity-building program. For technical workshops on spatial data technologies are organized to provide uniting, software, 2020, for Mesoumerican puriciparts, and the other one is planned for april, 2010, for Carabhoun participants. The project portoxies the establishment of improvement of spatial data infrastructures, soaist in the establishment of britzer communication channels among agenties and infrastruct overlying spatial data, superaction, the organization of the properties of the properties of the project of the properties of the properties

The MACGA Mesoamerican workshop to be held in Panama

offers a unique experimity for more than 30 participants from purpose agencies, ministri of environment, programmal agraciose, and regional transitions to lear new GIS techniques, configuration of the configuration of the configuration of the deviations model and apostici systems, externity points recluniques, and apostici dynamic participants including the unique good projects in the region. They have the the unique goodpull region of the region of the properties of the theory of the properties of the properties of the properties of the distribution to be developed (i.e., Global Mby data sets, environmental times to the developed (i.e., Global Mby data sets, environmental times to the properties of t

In parallel with this technical gathering, managers from MACGA partner agencies convene in a two-day meeting on November, 21 and 22, in Pannam to define a basic action plan for the establishment and consolidation of spatial data infrastructures in the region, help formalate new projects, establish mechanisms for conversion, and set discript in the alliance work.

Up to no, zone than thirty patter agencies have auromated, their commitment to participate in MACHA. The list includes authoral surprises grant conformated agencies, minimizes of agriculture, NGOs, funding agenties, UN, agencies, recommission and collune, NGOs, funding agenties, UN, agencies, recommission and their collune, NGOs funding agenties to the alliance objectives in different ways; by funding certain activities, by providing caracips, building, by distributing postel data sets, by officing software and training packages, by developing products and deliverables, and deliverables and activities of the non-deliverables and deliverables and their participations and relations; As a contribution to the project, ESRI is providing a software and training grant to each ministry of environment in Central American valued at US\$60,000. Altogether, partners have already pledged to contribute over \$2 million in support of the MACGA.

For more information please contact: Eric van Praag, USGS/EDC, Phone: 58-212-793.48.26, sumrang@usgs.gov. Or Larry L. Tieszen, USGS/EDC, Phone: 605-594-61.69, tieszen @usgs.gov. And visit our websit at hitm-felecial.crasses.cov/macen.html.

IDEMEX, THE SPATIAL DATA INFRASTRUCTURE OF

MEXICO The growing influence of geospatial information has increased

the dermads for opportune, congruent, of quality, accessible and shared information useful far everybody. The National Institute of Statistics, Geography and Informatics (INSGIT) he National Institute of Control of the Control of Statistics, Geography and Information Chapters of geographic neces, the Statistical and Geographic Information Law, prevailagated in 1988, regulates the national information in these natures and objective the integration and development of the National Geographic Information System, and along with it, the prime second of the NSGIT.

Geographic information in Mexico has developed in second traggies: the fixet one characterized by the predictive effertive ressocial linked to the decision to adopt digital factorizedge, and a constantiate the information in the basis of rainformation and efficiency excitation. The information is the basis of rainformation and efficiency of Mexico (DIMMAN) wither Producers and uson of geospital information have predicted out the read to coordinate efforts, were information three production, part to the disposal of all interested people, and summing up, to administer the geospital information in their ways.

In February of this year INISI organized the National Goography 2003 Convertion where the main and governing anlysic was the IDIMIN. It was agreed during this Convention that it is necessary to to start the cerumatician and interchange of ideas and experiences among geospatial information preducers and users and to see the convention of the convention of the convention of the publication of DIMINS, Later on, by the end of May a First Supy on the IDIMINS attacked by several geospatic cognizations was ceparized, in which subjects on Standards, National Geographic Geospatial Information was different to the convention of the conceparized, and Decembiated on the Control of the Convention of the Geographic Convention of the Conve

For the integration and development of the SNIC, the Law indicates the establishment of Technical Committees and the elaboration of the National Development Geographic Information Program. The Consultative Technical Committee on Geographic Information, has the function to orient and define priorities for the generation of appropriate decision taking for sustainable development among our nations, realizing we are in a context where everyone has to learn from the others.

PC IDEA plans for the next two years include the establishment and strengthening of links and relationships with leading geospatial global and regional organizations such as GSDL PCGIAP FUROGE PAIGH FGDC ISO TC/211 ICA and ISCGM, specially with the United Nations, among others: the redefinition and strengthening of working groups, support to subregional initiatives such as the Mesoumerican and Caribbean Geospatial Alliance (MACGA), to reinforce membership, the organization of regional shops such as one on Geographic Names as foreseen for next year, the organization of the 5th Meeting in Aruascalientes, Mexico in October, 2004, and the 6th meeting in a place and date to be defined for 2005. One of the main lines of work is to provide for better working communication with and among member countries by using the modern facilities provided by the Information and Communication Technologies, including the addition of project planning and discussion forums through the Web site of PC IDEA.

PROJECT NATIONAL LAND INFORMATION SYSTEM OF CHILE

Alvaro Medina Aravena

Technical Secretary, National Land Information System Ministry of National Properties

In Chile there are many public organisations involved in the generation, use and management of land information. In general, these institutions produce and manage databases by using modern and highly automated technologies. However, this process has been dovelveped with lack of occurdination among meritioned organisations. Our traditional usages in the capture and management of hand information indicate that different

sectors develop the process responding to their particular needs, without considering what happens in the neighbouring organisation related to these matters. Elkewise, even the number of institutions that built land information systems is increasing (supported in GIS sechnologies) they are not able to dialogue between themselves.

In order to face these problems, the Chilean government is developing the project. Seamen National to the formación developing the project. Seamen National to the formación contrata de la companya del companya d

The SMT aims to moderative the current tand information's way of managenetic disputes, use, maintenance, transferringly by Sate agencies, starting from an undurred and individualistic scheme to nearle a coordinated and cooperative one. Its deserge the contention of the contribution of one technologies by multilityin management procedures. This sensitis in an interinstitutional arrangement that four the principles when the content of the contribution of the contr

All of these are based on three technological foundations: the accurate location of spatial data, their management on the web and on-line, and the use of GIS.

Therefore, the SNIT is a cooperative and transversal manage-

ment model, sustained on the best use of information and communication technologies, enabling a qualitative jump with respect to availability and access to land information for government authorities as well as common citizens.

At the present time, we have a national plan for land informa-

tion capturing and standardizing, which has been formulated for the period 2003-2005. This plan was bull as the result of a strong work of multisectorial coordination, where every particlputing organisation coentributed with experience and knowledge from their particular field of action. In this plan several activities have been programmed in order to

fulfill the following objectives:
 Standardize and normalize land information existing in the country.

- Build the standard geographic base formed by the core data of our national territory.
 Adopt international standards referred to geographic infor-
- mation.

 Establish regional committees for decentralizing land
- Elaborate the land information portal for discovery, evaluation and access to geospatial data.
 Formulate projects for capturing lacking information in the
- country.

 Establish the SNIT advisory committee, in order to involve all the national geographic community in formulating a policy for land information management.
- Participate actively in the international community of Geospatial Data Infrastructures.
 Give legal sustainability to SNIT by means of a national notice.

At this time, based on a Second Manchate of the President, signed on April 2003, we are working on the elaboration of a Basic National Policy, as a proposal, for the management of Land Information, and the implementation of our national plan of land information. The policy proposal will be completed in December 2003. partial metadata was conducted at the First Annual Conference of the Geoinformion Society or Nigaria (GEDSON). Phesided over by the President of GEDSON, Poof. O. O. Ageni, the aim of the workshop was to saistly participants to develop the necessary skill in capatring and publishing metadata for geospatial data requiring and publishing metadata for geospatial data related to the proposal control for Taillaing in Anotypao Sorveys (RECTAS), and in particular Dr. Jide Karloniy for organizing the training. The activities of the workshop included:

On 26 November 2003, in Abuja, Nigeria, a workshop on geo-

Overview of SDI
 GI Policy for Nigeria

Geospatial Data Standard Issues
 Introduction to Metadata

 Final Contents of ISO Standards for Geospatial Metadata

ISO Status
 Implementing Metadata Projects

 Sections 1 and 7 of ENRAEMED to explain the elements of the Metadata structure
 Cleuringhouse

Clearinghouse
 Z39.50 and Significance
 Test Implementation with in

 Test Implementation with in-house facility and public domain software.
 By all indications, the workshop met its objectives. RECTAS

will follow-up the workshop gains by monitoring implementation of metadata in the organizations represented by the workshop.

Kps day later, on 27 November 2003, in Harare Zienbabwe. The

Surveyor General's Department, the SDI Steering Committee, and the Southern African Development Community (SADC). Regional Remote Sensing Unit (RRSU) basted a workshop on the Zimbubwe SDI Program. The issues addressed in the work-

p included:

• Formalization of the ZSDI initiative

notogies.

 Awareness campaign
 Sustainable funding strategies for the ZSDI initiative
 Immuture institutional arrangements and user/provider relationships

Inconsistencies in the availability and quality of spatially referenced data
 Inconsistent policies concerning access to and use of

spatially referenced data
Incomplete knowledge about the availability and quality
of existing spatially referenced data
Lack of best tractice in the utilisation of enabling tech-

The worlshop was presided over by Mr. Reaben Mavima, the current Chair of the ZSDI Secring Committee and the Clearinghouse Specialist for the RSCI, and was attended by many of the influential normbors of the ZSDI Community. The Honoralde Minister of Lanks, depictular and Bernal Resettlement. Dr. Asceph Made, gave the opening speech, and the properties of the Community of the Community of the John in assisting the Joint of Community of the John in assisting the Joint of Community or and the plant of Community or Joint of Statistics of the Joint in assisting the Joint of Community or Joint of Joint One Joint After formalization of the ZSDI structure and election of the new Sterring Committee Membership and Executive Committee, the workshop recorded a number of actions, designed to move the ZSDI well into the future.

Editor's Note: There are many activities going on around the world related to the global spatial data infrastructure, too many to adequately cover in a single newsletter. This edition will focus on activities within the Americas. Future editions will cover activities in other regions in more detail.

A SHORT REVIEW ON PC IDEA, CURRENT STATUS AND PERSPECTIVES

The Permanent Committee on Geospatial Data for the Americas (PC IDEA) was established pursuant to resolution number : of the 6th United Nations regional Cartographic Conference for the Americas (UNRCCA). New York, 1997. As of today the organization groups 24 member countries in the American Continent. PC IDEA is a rather young regional organization since its establishment in Murch 2000 during the First Meeting in Santu Fe de Rosota, Colombia, The Second Meeting took place along with the 7th UNRCCA in New York, January 2001, where initial ideas and concepts were reaffirmed towards the development of the regional and national spatial data infrastructures. The Third Meeting was convened in Cartagena, Colombia, May 2001 along with the 5th Conference of the Global Spatial Data Infrastructure (GSDIS), where initial membership was increased. final statutes and bylaws were approved and three working groups were established on Legal and Economic Aspects, Communications, and Technical Issues, this last WG comprising several subgroups as related to Fundamental Data, Geospatial Standards, Policies, Clearinghouse, Cadaster, Geographic Names and Capacity Building. On the other hand, new authorities were appointed by the Committee, with the Presidency changing from Colombia to Venezuela.

The Fourth meeting of PC DIEA was hosted by Costa Rica in June, 2003, along with a Technical Meeting of the Cantengraphy Commission of the Panamerican Institute of Geography and History OMACHI, where there is a strong interest being developed insough issues related to the implementation of SIV in in the American, New authorities were elected, converposating in the American. New authorities were elected, converposating Burns, General Discover of Cooperaby at the National Institute of Statistics, Cooperaby and Information (SIVEI).

In his acceptation address, the new President stressed the fact that there are strong challenges to face in the development of the regional SOL requiring the featifying of PC IDEA. New pumping should be developed within the Americas Member audion, trying to open new doors with the rate of the world, which for same with fair sene exhallenges linked to mustic which for size with raise rese challenges linked to mustic opening of exponentiates within a globalized information and communications would d. It in recessary to work by developing and the properties of the properties within a globalized information and communications would d. It is necessary to work by developing and proporties of the properties of t



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Upcoming Conferences:

January 9, 2004 Seoul, Korea International Symposium on Environmental Planning and City Management in Asian Countries

urban.tutrp.tut.ac.jp/AURG/sympo2004/ January 20-22, 2004

Washington, DC ESRI Federal User Conference www.esri.com/events

January 28-30, 2004 New Delhi, India

Map India 2004 www.mapindia.org

February 2-6, 2004 Bangalore, India GSDI-7

January 30-31, 2004 Pre-Conference Tutorial www.esdi7.org.in/

March 26,29 Washington, DC GDIN2004

www.edin.ore

April 25-28, 2004 Seattle, WA USA GITA's 27th Annual Conference

www.eita.ore/events/annual/27/intro.html

May 10-12, 2004 Johor, Malaysia GISDECO 2004

www.bfab.utm.mv/gisdeco2004 May 12-14, 2004

Miami Beach, FL USA GeoSpatial World 2004 www.geospatialworld.com/

May 22-27, 2004 Athens, Greece

FIG Working Week and XXVII General Assembly www.fio.net/fiotree/events/events2004.htm

August 9-13, 2004

San Diego, CA ESRI International User Conference esri.com/uc

November 7-10, 2004 Berlin, Germany

19th CODATA International Conference www.codata.org/04conf/index.html digitalearth03.geogr.muni