



GSDI-8 Cairo.
Pre-conference Workshop 1: Standards

Textbooks and other materials

Michael Gould
*University Jaume I, Spain
and GeoSpatial Partners*

GINIE - Geographic Information Network In Europe - Mozilla Firefox

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http://www.wmu.jrc.it/ginie/documents.html

SDI book

GINIE Project Documents

GINIE Final Report, Fact Sheet and Peer Review

Pub. Date	Title	Language
2004-03-24	GINIE Final Report	English
2004-03-24	GINIE Peer Review	English
2004-03-24	GINIE Fact Sheet	English

GINIE Book: GI in the Wider Europe

Pub. Date	Title	Language
2003-10-23	GI in the Wider Europe (Complete Book)	English

INDIVIDUAL CHAPTERS

- [Table of Contents & Chapter 1: Introduction and Overview](#)
- [Chapter 2: SDI Developments in Western Europe](#)
- [Chapter 3: SDI in Accession and Pre-Accession Countries](#)
- [Chapter 4: SDI in the Mediterranean Basin](#)
- [Chapter 5: International Comparison](#)
- [Chapter 6: Key GI Players in Europe](#)
- [Chapter 7: Lessons Learnt](#)
- [Chapter 8: Towards a European Strategy](#)
- [References, Appendices, Acknowledgments](#)

Case Studies

The GINIE Case Study Portfolio brings together a number of easy to assimilate case studies on how GI and the associated technologies are delivering real benefits today.

2003-10-29	Casestudies 1: Czech Republic and Italy	English
2003-10-29	Casestudies 2: Sweden and Switzerland	English

Done

Nat' Academies Press, Toward a Coordinated Spatial Data Infrastructure for the Nation (1993) - Mozilla Firefox

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http://www.nap.edu/books/0309048990/html/

spatial data infrastructure book

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Toward a Coordinated Spatial Data Infrastructure for the Nation (1993)
Commission on Geosciences, Environment and Resources (CGER)

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GIS News: ESRI Press releases book on developments in Spatial Data Infrastructure - Mozilla Firefox

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http://www.gisdevelopment.net/news/viewn.asp?id=GIS:N_fbdwxeum&cat=Miscellaneous&sub=

spatial data infrastructure book

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ESRI Press releases book on developments in Spatial Data Infrastructure

GIS Worlds: Creating Spatial Data Infrastructures, a new book from ESRI Press, provides an overview of the developments in spatial data infrastructures (SDIs) over the last 10 to 15 years. Author Ian Masser examines the development of SDIs for sharing geographic data in local, state, regional, national, and international agencies.

GIS Worlds is structured around four themes: SDI diffusion, evolution, implementation, and institution building within a hierarchy of SDIs. Within these themes, Masser discusses key issues in SDI development including government policy options and strategies for SDI implementation. The book also explores the contributions SDIs are making in countries throughout the world.

"The importance of SDI has grown as our capacity to handle large quantities of spatial information has increased exponentially over the last 20 years as a result of developments in GIS technology, at the same time, our power to access this information has been transformed by the development of the Internet and the World Wide Web," said Masser.

He further says that SDIs have considerable potential for improving the delivery of basic services such as health care and utilities, facilitating public planning and management activities, and promoting sustainable development.

Source : <http://gis.esri.com/>

Headlines

- VARGIS selected by R&F Consulting for geospatial services agreement
- Navigation drives growth for Telematics in the premium car segment
- ESRI provides mapping and GIS capabilities for Munich Re's insurance industry
- VELOCITIE chosen by Aquarian Water Company of Connecticut for GIS consulting
- USTDA to support e-government system of Bucharest
- GfK MACON updates digital maps of Germany, Austria and Switzerland
- GeoAnalytics and C&C Solutions complete enterprise GIS plan for FL DEH

Announcement

Map Middle East 2005
23 - 25 April 2005
Al Bustan Rotana Hotel,
Dubai, UAE

Map Asia 2005
22-25 August 2005
Hotel Mulia Senayan
Jakarta, Indonesia

New Editorial Calendar for 2005 announced! Submit Papers

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Spatial Data Infrastructure - Mozilla Firefox
 http://www.coronetbooks.com/books/spat4679.htm

Spatial Data Infrastructure & Policy Development in Europe & the United States

Edited By Bas Kok & Bastiaan van Loenen
 May 2004
 Delft University Press
 ISBN: 90-407-2467-9
 104 pages, Illustrated, 6 cm x 9 cm
 \$39.50 Paper Original



Many national governments throughout the world are involved in developing spatial data infrastructures (SDI) to facilitate the availability of information in such a way that the needs of the agencies, organization, citizens, commerce and society in general are met. This book covers some of the most prevalent policy issues evolving around spatial data infrastructure development.

First, the book addresses a variety of European SDI projects aiming at the creation of a regional spatial data infrastructure. Secondly, insights are provided on how two different legal and economic SDI settings can still allow for different legal and economic SDI settings can still allow for and serve very similar infrastructure functions.

Through the publication of this book, the Global Spatial Data Infrastructure (GSDI) Legal and Economic Working Group provides a communication channel and an organized understanding of a sampling policy and legal frameworks for the development of spatial data infrastructures. Stakeholders working on SDIs development in other or similar SDI settings may use this book for the benefit of their SDI.

Done

Springer - Geographic Information Metadata for Spatial Data Infrastructures - by Javier Noguera-Iso, et al. - Mozilla Firefox
 http://www.springeronline.com/sgw/cda/frontpage/0,11855,4-40362-22-40804599-0,00.html

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Geographic Information Metadata for Spatial Data Infrastructures
 Resources, Interoperability and Information Retrieval
 Noguera-Iso, Javier, Zarazaga-Soria, F. Javier, Muro-Medrano, Pedro R.
 2005, XXII, 264 p. 83 illus., Hardcover
 ISBN: 3-540-24464-6

This item usually ships in 3-4 weeks.

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About this book | Table of contents

About this book

Metadata play a fundamental role in both DLs and SDIs. Commonly defined as "structured data about data" or "data which describe attributes of a resource" or, more simply, "information about data", it is an essential requirement for locating and evaluating available data. Therefore, this book focuses on the study of different metadata aspects,

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 1. Open Standards
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 3. Open Books
 4. Open Data
2. Coordinate Reference System
 1. Datum
 2. Projection
3. Web Map Service

news

- Ethiopia plans internet expansion 2005-04-07
- UN Seeks Cartographic Section Chief 2005-04-05
- Tsunami damage mapping & monitoring 2005-01-19
- Tsunami [OGC] web mapping for aid workers 2005-01-12
- EOGEO 2004 President's Report 2005-01-06

Summer School on GIS - 2005 - Mozilla Firefox

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THE VESPUCCI INITIATIVE

The Vespucci Initiative
for the Advancement of Geographic Information Science
announces the 3rd Annual
Summer School on Geographic Information Science
Fattoria Montebeni, near Fiesole (Florence), Italy

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4 to 15 July 2005
(two, one-week sessions)

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INTERGRAPH GEOInformatics

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THE VESPUCCI INITIATIVE

Week 1 (4-8 July 2005)

[Geographical dimensions of Risk Management](#) (click for details)

Lead instructors: Henk Scholten, Antonio Camara, Michael Goodchild, Sisi Zlatanova

ICT support for improving urban and urgent risk management used in situations such as earthquakes, fire-fighting, industrial disasters and road accidents requires a context-aware and knowledge-engineering technology based approach. Context-awareness is needed to save time in critical situations and covers awareness of location of mobile user/disaster event, task of user, relevant objects in vicinity and on route to this and capabilities of available networks and used (mobile) equipment. This implies that the Risk management session will address the context of the user, of which an important part is geo-information.

Large volumes of geo-information are available and systematically being maintained by different organisations. They may be described in catalogues and made available through Geo-Information Infrastructures, such as NCGI, INSPIRE (both based on ISO, CEN, OpenGIS standards). The semantics of geo-information is clear to the producer, but not formalised (e.g. in ontologies), which is needed for real time machine processing in order to prepare the information for the end-user in a crisis. Geo-risk management uses GPS or Galileo to locate the mobile user (augmented with solutions for indoor or dense urban areas) and use (wireless) communication channels.

Both data servers and communication channels must be redundant in order to provide a robust fail-safe system during risk management. These requirements pose big challenges for data management, discovery, translation, integration, visualisation and communication based on the semantics of the heterogeneous (geo-) information sources with differences in many aspects: scale/resolution, dimension (2D or 3D), classification and attribute schemes, temporal aspects (up-to-date-ness, history, predictions of the future), spatial reference system used.

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THE VESPUCCI INITIATIVE

Week 2 (11-15 July 2005)


[Spatial Data Infrastructures and the Spatial Grid](#) (click for details)

The development of spatial data infrastructures (SDI), i.e. coordinated frameworks for accessing distributed geographic data resources, is gathering pace worldwide. Previous editions of the Vespucci Summer Schools have focused primarily (in) on the national level as this is the most dominant dimension of SDIs to date. For 2005 particular attention will be given to the two extremes of the SDI distribution: the **global dimension** on the one hand, with specific focus on the impacts of SDIs in **developing countries**, and the **very local dimension** on the other, as this is the level closest to citizens. The technological, data related, organisational, semantic, and social issues involved will be highlighted through practical case studies and theory-driven perspectives. A common thread of these two extremes, the global and local, is capacity building and end-user involvement without which SDIs are unlikely to succeed.

This reflection on the current challenges of SDI development is all the more important as the scientific community is now moving toward the next "holy grail": the development of Grid computing and e-science. The progression from GIS to SDIs to spatial Grids is logical: as more and more data resources become available through SDIs, it is inconceivable that data will be accessed remotely and only processed locally. Hence the need to access also distributed data processing resources of High Performance Computers or clusters of machines, i.e. the Grid. Many of the issues being addressed by the Grid community are similar to those related to SDIs: interoperability, standards, access policies, analytical methods, and user awareness among others. Hence the importance of learning the lessons of the present to shape the development of the future. There is a huge amount to be learned through brainstorming within this unique intersection of science and technology!

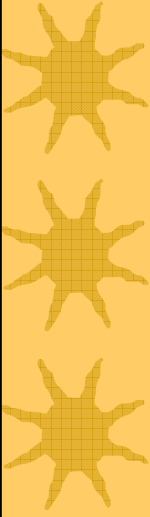
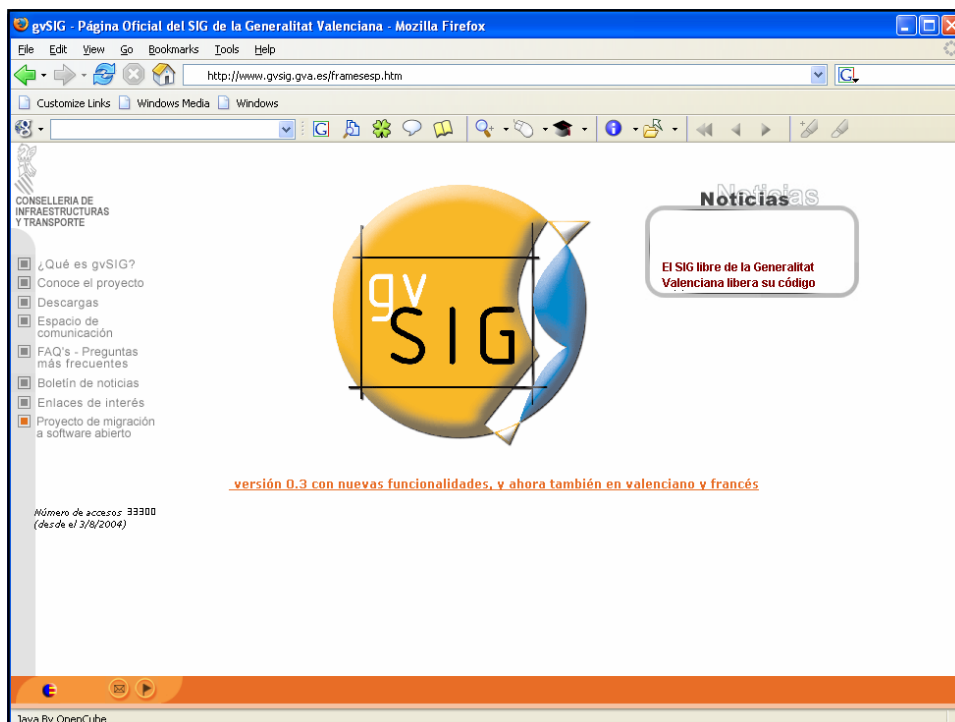
The module will be highly interactive, yet structured around brief lectures from key faculty members including **Ian Masser** (global SDIs), **David Mark** (spatial cognition), **Werner Kuhn** (Ontology and Semantics), **Richard Webber** (neighbourhood profiling), **Ezra Zubrow** (social impacts), **Michael Gould** (interoperability), **Max Craglia** (local SDI and Grid).

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SDI: *learning by doing*

- ★ Perhaps not the easiest way
- ★ But it keeps progress, objectives within your hands
- ★ Recent offer of free software components is interesting
 - Clients
 - Services
 - Databases

gvSIG - Página Oficial del SIG de la Generalitat Valenciana - Mozilla Firefox

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http://www.gvsig.gva.es/framesp.htm

CONSELLERIA DE INFRAESTRUCTURAS Y TRANSPORTE

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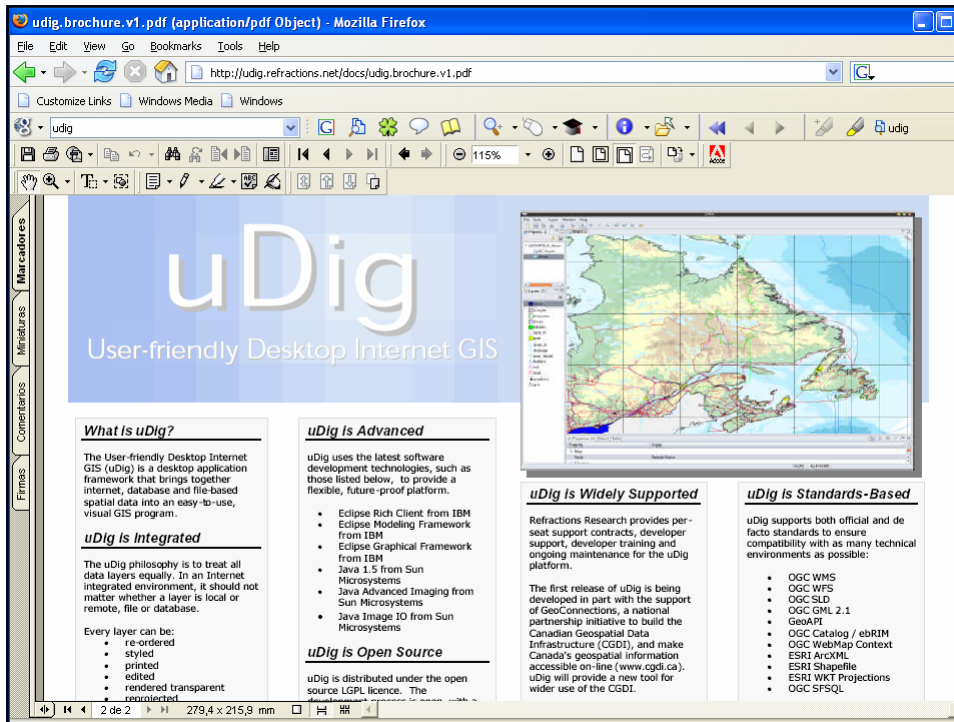
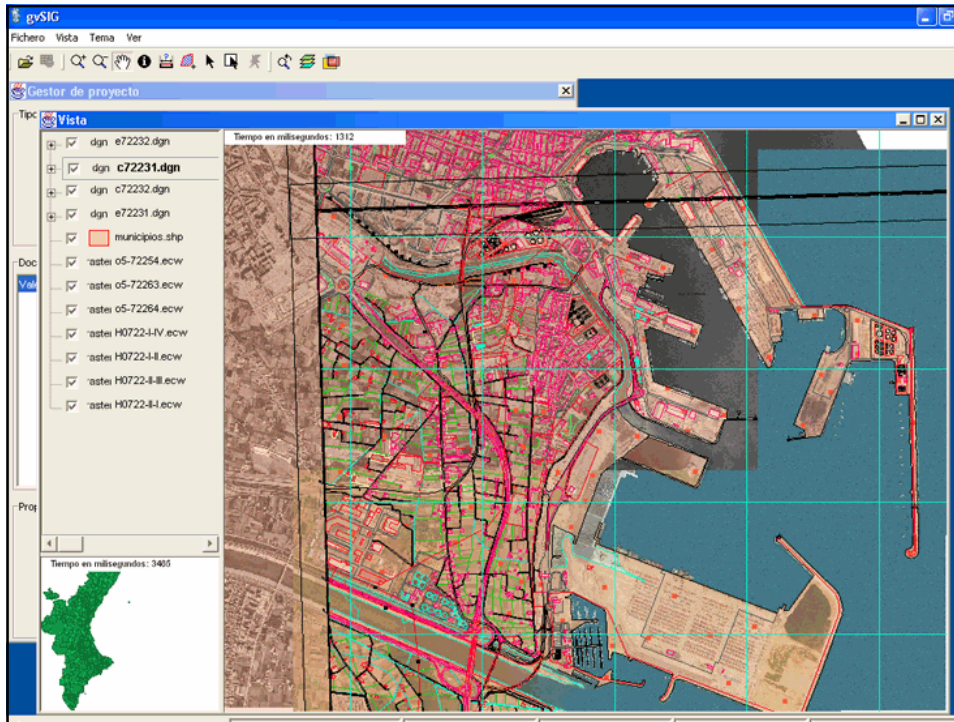
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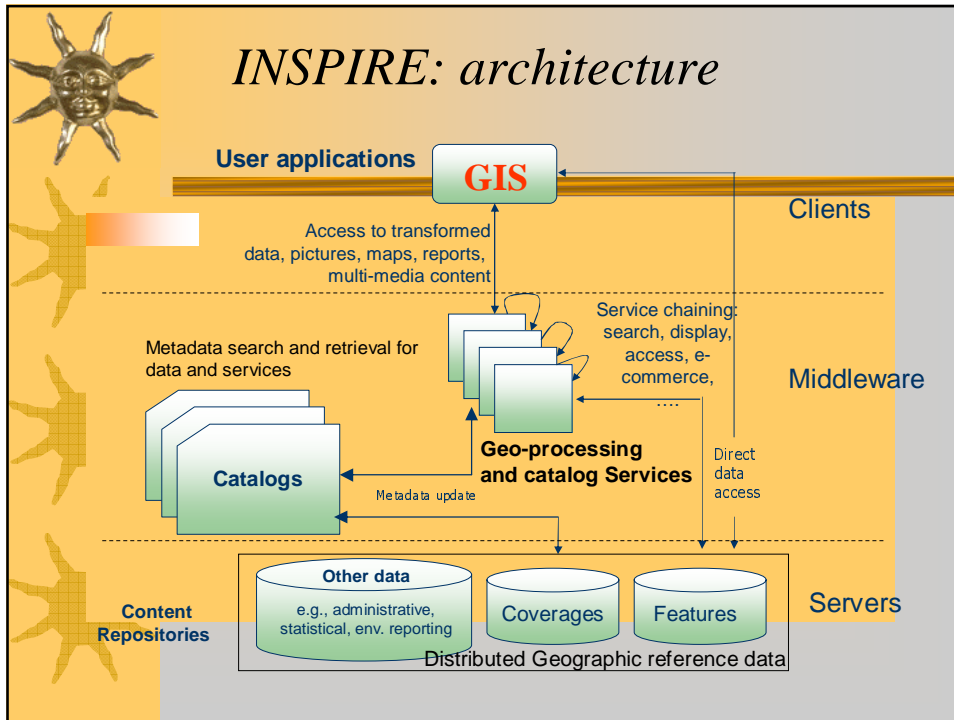
El SIG libre de la Generalitat Valenciana libera su código

[versión 0.3 con nuevas funcionalidades, y ahora también en valenciano y francés](#)

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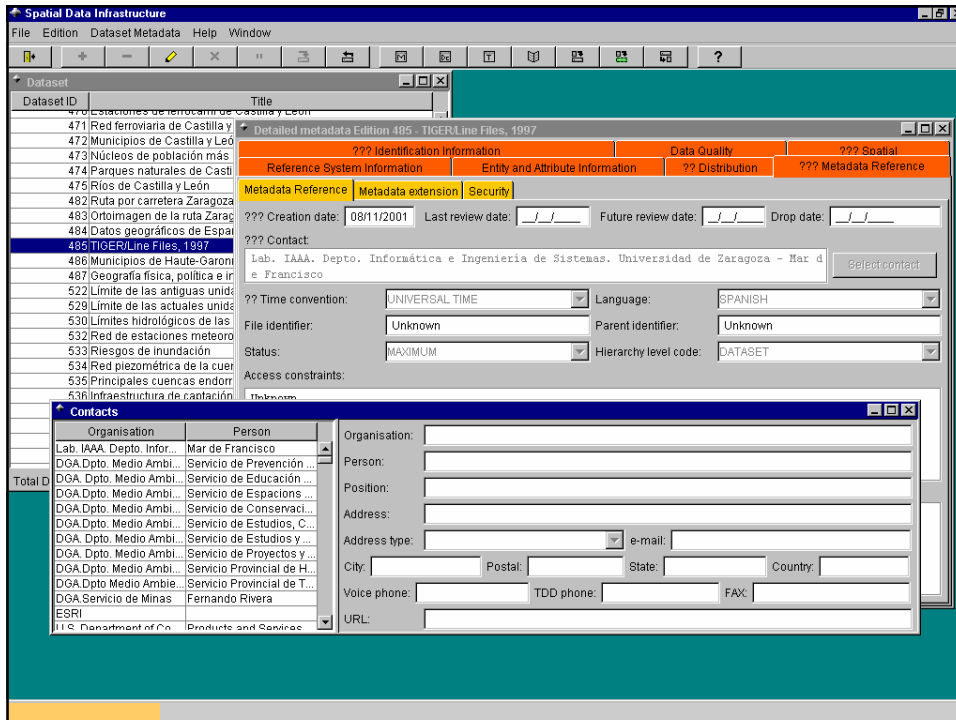
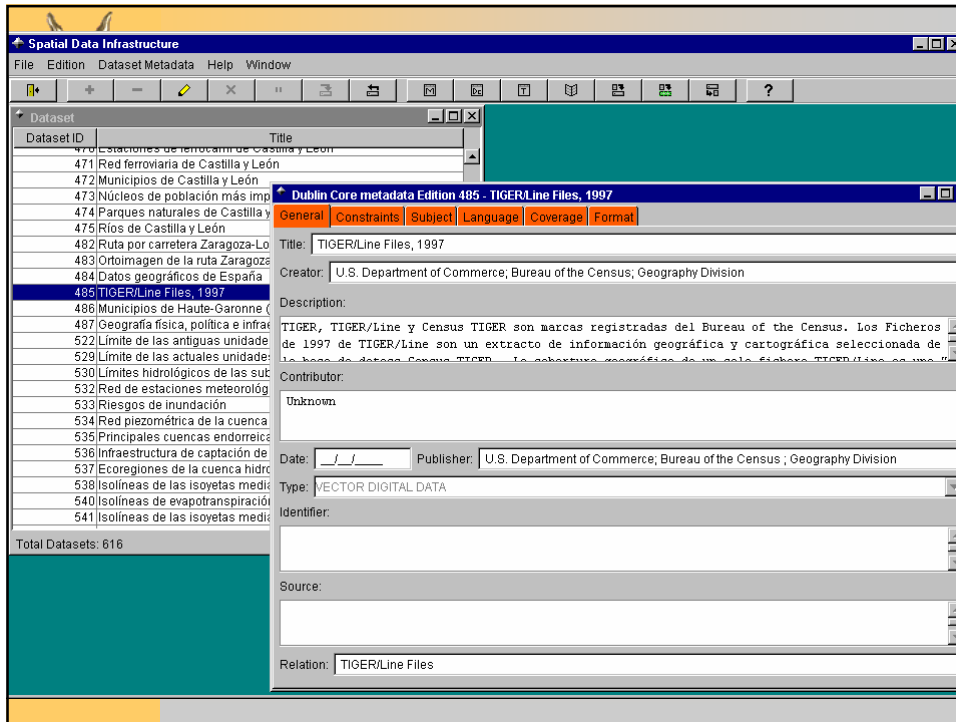
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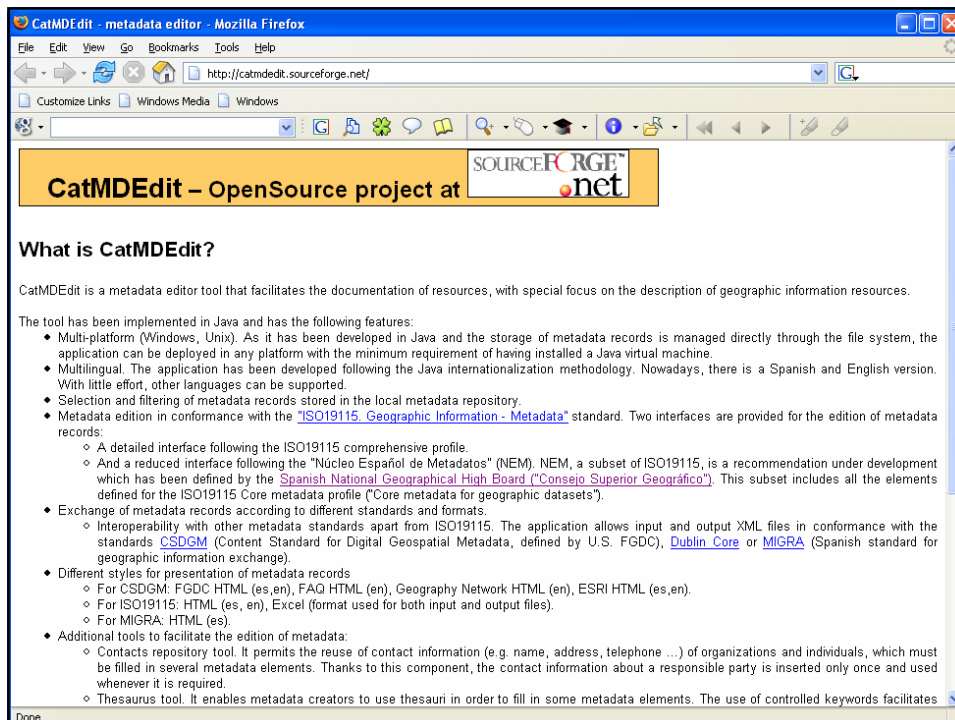
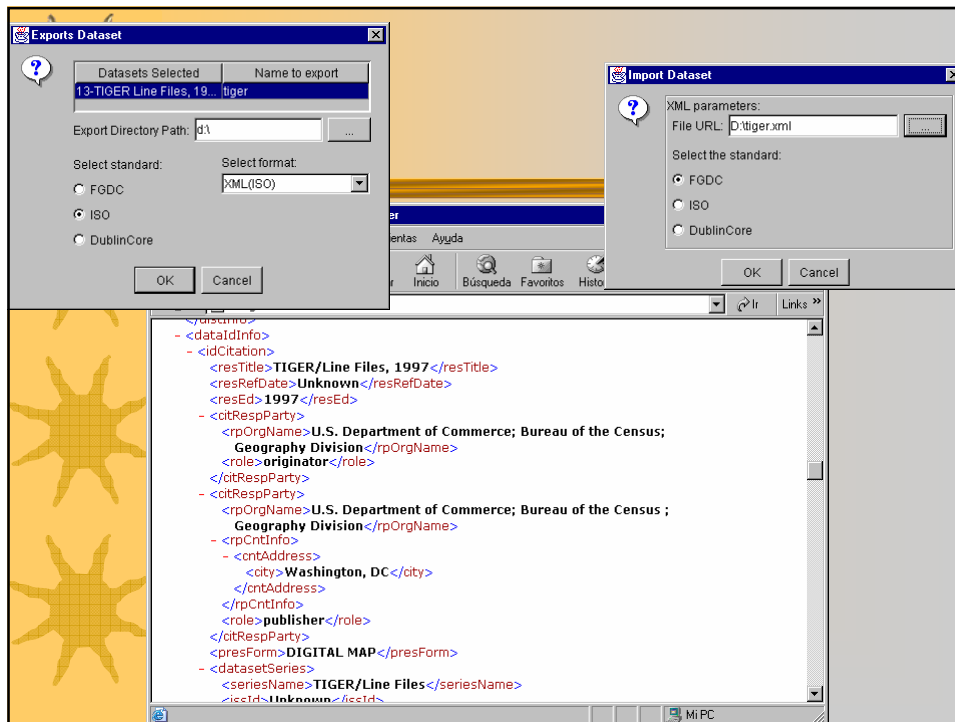




Metadata

- ★ What are the options?
- ★ What do the metadata look like?
- ★ How to collect it?
- ★ ...tools are freely available





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 http://www.geoportal-idec.net/geoportal/IDEC/Service?pag=metad&home=s

IDEC Infraestructura de Dades Espacials de Catalunya
 Generalitat de Catalunya

Home > Download MetaD software

DOWNLOAD METAD SOFTWARE

From this page, you can download the Metadata Editor tool (MetaD) and related information.

METAD INFORMATION		
NAME	DESCRIPTION	FILE
Software MetaD v 2.1.1 (Free download)	Metadata tool editor and export is an IDEC Schema compliant, subgroup of ISO 19115 standard to describe the Geographic Information (graphical, alphanumeric...) NOTE: If you are not registered as MetaD user, you can registry now!. This is an essential step to obtain the password.	Installer Registry
User's Tutorial	This training manual will help to the user on the correct metadata description using the software MetaD.	doc (980 kb)

Services

- ★ Ubiquitous WMS
- ★ Web Feature Service (WFS)
- ★ Web Coverage Service
- ★ Catalog service
- ★ Other related services

the GeoServer Project :: an Internet gateway for geodata - Mozilla Firefox

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http://geoserver.sourceforge.net/html/index.php

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THE GeoServer PROJECT

the open Internet gateway for geographic data

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- SourceForge Home
- Source Code

Communication

- Mailing Lists
- Task Tracker
- User Map
- Wiki
- Commercial Support
- GeoServer in Spanish

Developers

Welcome to the GeoServer Project

The GeoServer project is a full transactional [Java \(J2EE\)](#) implementation of the [OpenGIS Consortium's Web Feature Server](#) specification, with an integrated WMS. It is free software, available under the [GPL 2.0 license](#). Users who would like to access and modify their geographic data over the Internet using flexible, industry-approved standards should take a look at GeoServer or one of the existing commercial Web Feature Servers. If you are interested in a deeper examination of the importance of the GeoServer Project, you should read our [FAQ](#), where we have more descriptive [explanations](#).

Announcement: David Blasby joins the GeoServer Project
Posted by: Chris Holmes on Monday, February 14, 2005 - 06:53 PM PST

 The Open Planning Project (TOPP) is pleased to announce that David Blasby has been hired to work on GeoServer. TOPP was the initiator of the GeoServer Project, and continues to be its most solid supporter, always keeping someone on payroll to do the less glamorous tasks of running an open source project. Chris Holmes is leaving TOPP, but not GeoServer - he is headed to Zambia on a Fulbright Scholarship to investigate the potential for Open Source GIS to help implement Spatial Data Infrastructures in developing countries. His involvement will definitely continue, as he looks towards practical applications of GeoServer, and likely expanding its core into more SDI functionality. David will transition to lead developer, taking over the day to day tasks of growing the community and moving the codebase forward. He has great experience leading an open source GIS project, as he comes to us from PostGIS - GeoServer's preferred datastore. We are expecting great things from him, this year is sure to be an exciting one with him pounding away full time. Read the extended text for more details.

[Read more...](#) (1275 bytes more)  

Survey: Poll

What feature would you like GeoServer to support next?

- WMS Raster Support
- On the fly reprojection
- Full SLD-iWMS
- Linux Binaries
- Cascading WFS
- VFF DataStore
- Complex Features
- Binary:ML

[\[Results | Polls \]](#)

Votes: 12 | Comments: 0

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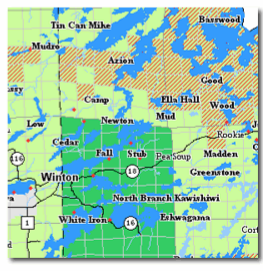
Current Version: 4.4.2
[What's New](#)

Welcome to the home of MapServer. MapServer is an [OpenSource](#) development environment for constructing spatially enabled Internet-web applications. The software builds upon other popular OpenSource or freeware systems including Shapelib, [FreeType](#), [Proj4](#), [GDAL/OGR](#). MapServer will run where most commercial systems won't or can't, on Linux/Apache platforms. MapServer is known to compile on most versions of UNIX/Linux, Microsoft Windows and even MacOS.

The basic MapServer CGI application provides a significant number of "out-of-the-box" features. Here's a sampling:

- vector formats supported: ESRI shapefiles, PostGIS, ESRI ArcSDE and many others via OGR
- raster formats supported: TIFF/GeoTIFF, EPPL7 and many others via GDAL
- quadtree spatial indexing for shapefiles
- fully customizable, template driven output
- feature selection by item/value, point, area or another feature
- TrueType font support
- support for tiled raster and vector data
- map element automation (scalebar, reference map, and legend)
- scale dependent feature drawing and application execution
- thematic map building using logical or regular expression based classes
- feature labeling including label collision mediation

Announcements



Sample image from MNDNR "recreation compass"

deegree Home Page - Mozilla Firefox

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deegree
Building blocks for spatial data infrastructures

The Free Software project deegree offers the substantial building blocks for the building of a Spatial Data Infrastructure by implementing the standards of the Open GIS Consortium (OGC) and ISO/TC 211. As the whole architecture of deegree is based on OGC specifications and concepts, there are no problems to integrate standardized products of other vendors (e.g. ArcIMS by ESRI(c)).

The following, OGC-based services are available:

Name	Functionality
Web Map Service (WMS)	Web-based creation of maps out of raster and vector datasets. The generated maps can be visualized by common web browsers.
Web Feature Service (WFS)	Web-based access to vector geo-data, that is delivered as GML 2.1.1 conformant XML-documents to clients, which can further process this data (for example in a desktop GIS).
Web Coverage Service (WCS)	Web-based access to raster geo-data, that can be delivered in several image formats (e.g. TIFF, GIF, JPEG, BMP, PNM) and can then further be processed.
Web Catalog Service (WCAS) based on OGC Web Services Stateless Catalog Profile.	Web-based catalog service for administration and querying of metadata describing geo-data and geo-services. A catalog service allows retrieval of data and services based on spatial and textual search criteria.
	Service allowing geo-referencing of geographic entities based on

News:

3.02.2005
Access to deegree2 CVS has been enabled. The actual sources of deegree2 are now available for anonymous access from our project CVS. Follow the link below to get more information
[more...](#)

23.12.2004
A first beta release of the new deegree2 API is available for download. Beside the sources examples for WMS, WCS and CS-W are included. The deegree2 WCS passes all tests of the OWS2 test suite for OGC WCS 1.0.0
[more...](#)

26.08.2004

FAO-UN GeoNetwork - Spatial Data and Information - Mozilla Firefox

http://www.fao.org/geonetwork/srv/en/main.search

geonetwork

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SEARCH

Find Interactive Maps, GIS datasets, Satellite Imagery and Related Applications

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Country/Region is -Any- [Other databases]

Type of data Digital data

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To search the FAO GeoNetwork catalog for the Tsunami disaster related data, click [here](#) or use the **tsunami keyword with additional criteria in the freetext search**

More Asia Tsunami Disaster 2004 Map and Satellite Data Resources

Info on Interactive maps

You can find interactive maps by searching in GeoNetwork for digital data with an Interactive Map, or directly connect to a pre-configured map server.

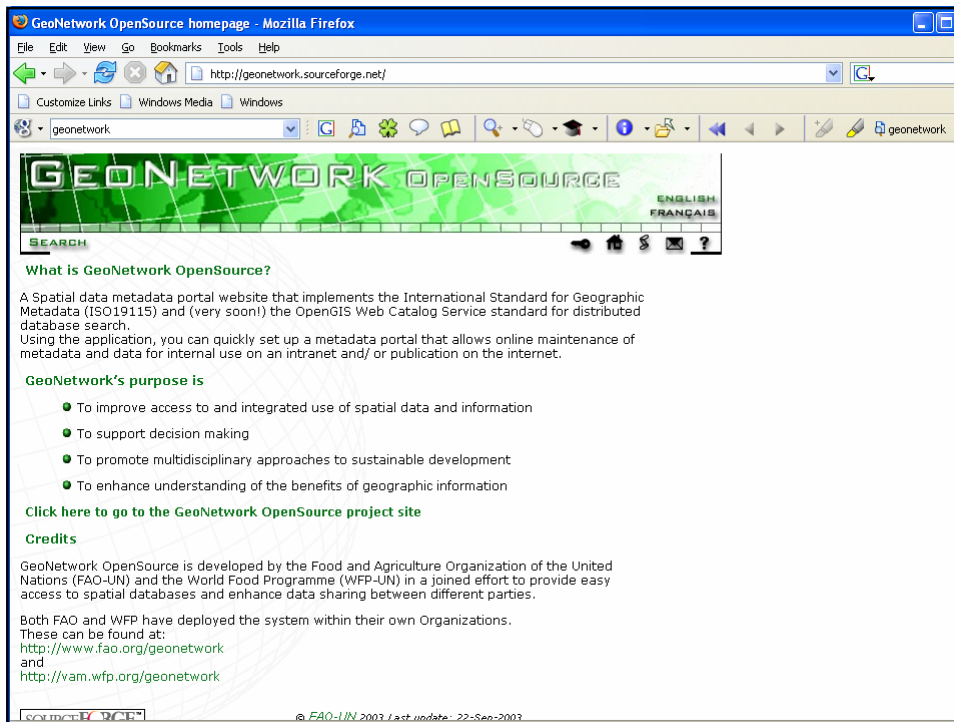

Supported Map Servers are OpenGeospatial Consortium compliant WMS Map Servers and CSW Map Servers

Featured map

GeoNetwork allows to easily share geographically referenced thematic information between different FAO Units, other UN Agencies, NGO's and other institutions.

GeoNetwork is endorsed by the PAIA on Spatial Information Management as FAO's Spatial Data and Information Portal.

For more information please contact: GeoNetwork@fao.org or send us feedback

Free software: word of caution

- ★ Free means “without restrictive licensing”
 - Does not mean without cost
 - Source code may or may not be available
- ★ TCO: Total Cost of Ownership
 - Free software + programmers + support
- ★ If you do not have reliable, available programmers on-hand, or reach a support agreement with the free software provider...then free software may not be the best solution.

