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Five Years of OSGeo: a 360° panorama

University of Trento, 9-11 February 2011
<http://events.unitn.it/foss4g2011>



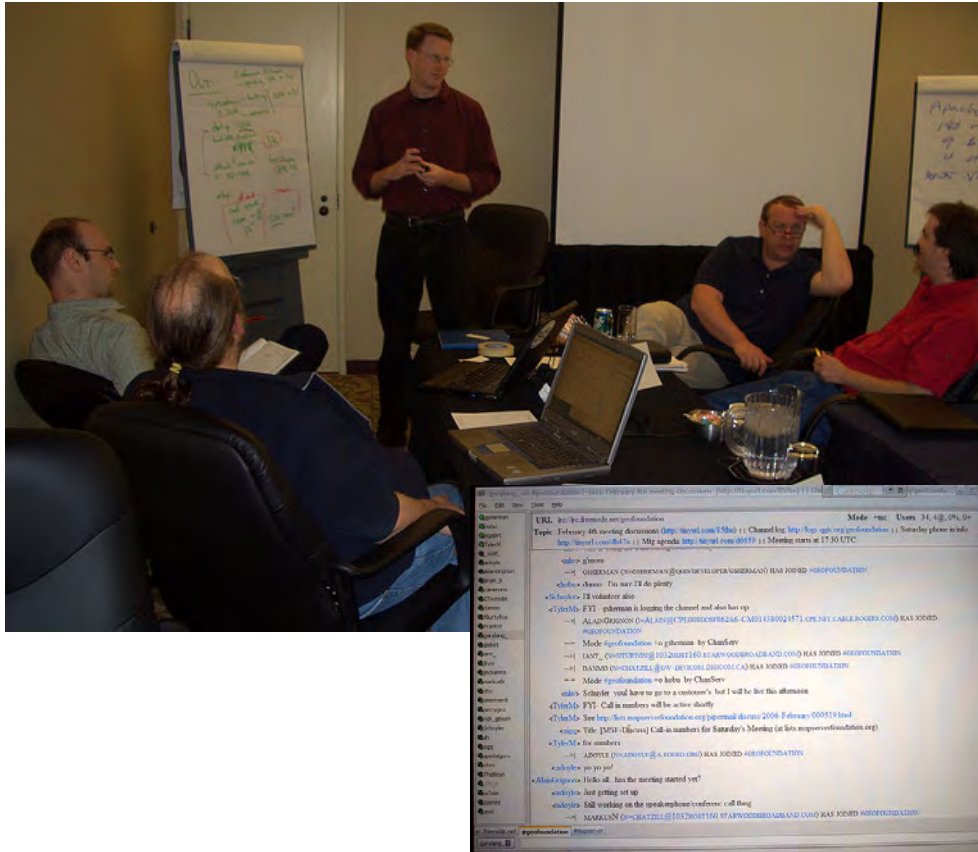


4th February 2006

Open Source GIS Umbrella Foundation: OSGeo – founded in February 2006

www.osgeo.org

<http://www.flickr.com/photos/20184502@N00/>



Not only about software project development but also about

- Communities,
- Public geodata, and
- Education!

Open Source Geospatial Foundation

Good start in 2006 with 500,000 USD budget, basically donated by Autodesk

- 1 permanent staff
- Volunteers:
 - 9 elected directors
 - Elected charter members
 - Community: thousands of volunteers



The “OSGeo code“:

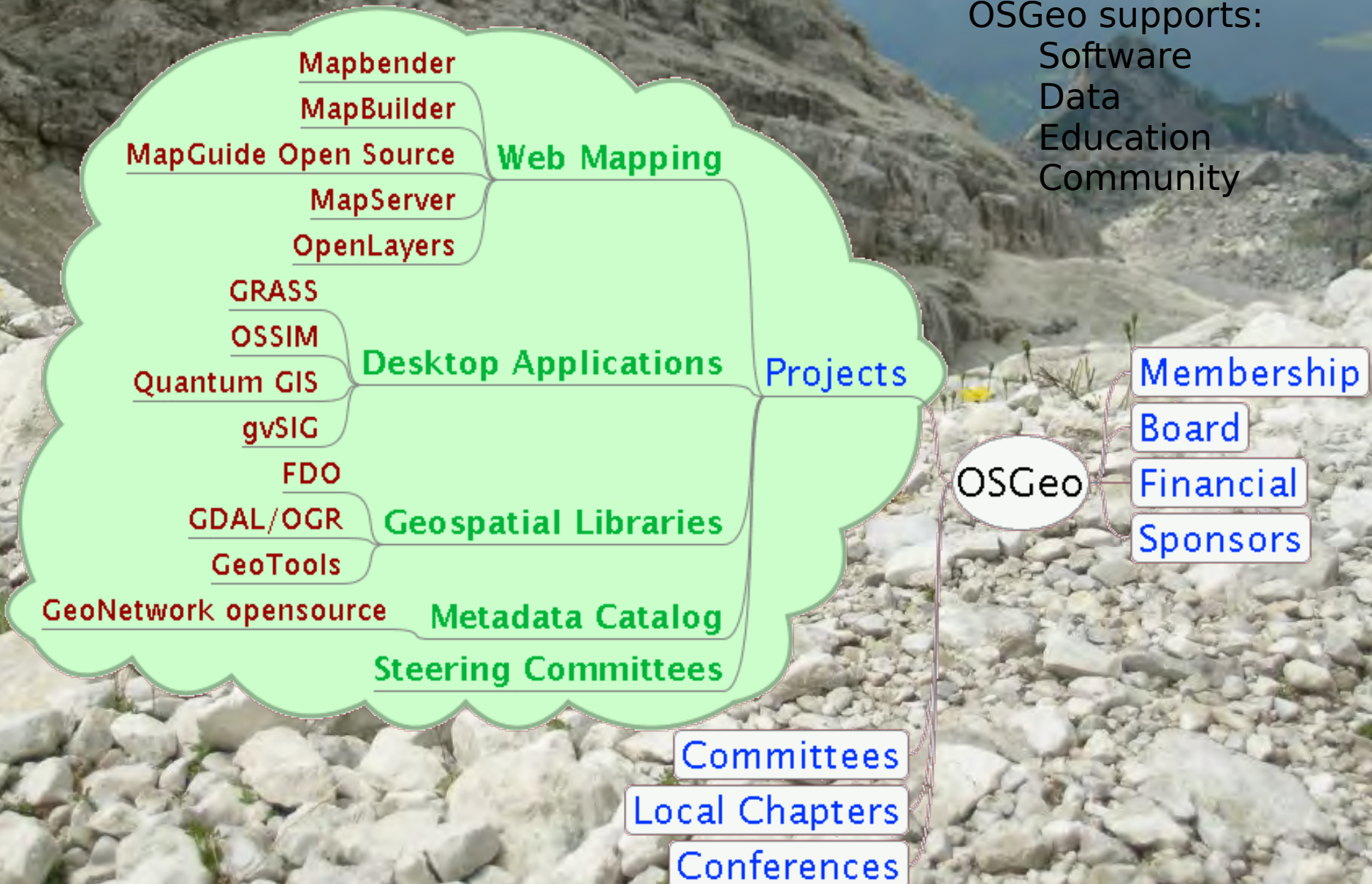
- **6,000,000+ lines of code**, representing **1,400+ development years** across all projects
- Shared infrastructure: project hosting

Community today:

- **140+** mailing lists with **15,000+** unique subscribers
- Committees for fund raising, marketing, education, geodata, ...

Open Source Geospatial Foundation



OSGeo supports:
Software
Data
Education
Community



The OSGeo "ecosystem": OGC Web Services




The screenshot shows the GeoServer website homepage. At the top, there is a navigation menu with links for 'About', 'Blog', 'Download', and 'Documentation'. A search bar is also present. The main content area features a 'Welcome' message dated January 17, 2011, announcing the release of GeoServer 2.1-RC1. Below the text is a map of Brazil with city names like Belem, Fortaleza, Recife, Salvador, and Brasilia. A 'Download Now FREE!' button is prominently displayed. On the right side, there are sections for 'Documentation' (Users Manual, Developer's Manual) and 'Community' (Blog, Mailing Lists, IRC Meetings, Issue Tracker, Roadmap, Improvement Proposals, Commercial Support, etc.).

The screenshot shows the deegree website homepage. The navigation menu includes 'Home', 'About', 'Professional Services', 'Download', 'Users', 'Developers', 'News', 'Links', and 'Community'. The main heading is 'deegree - Free Software for Spatial Data Infrastructures'. A large '3.0' is displayed, indicating a new release. The text below explains that deegree 3.0 (codename: Celsius) is a state-of-the-art OGC web service implementation. A list of features and demos is provided, including 'deegree UtahDemo', 'deegree cswDemo', and 'deegree wpsDemo'. There is also a section for 'deegree day 2010'. On the right, there is a 'News' section with a list of recent updates and a 'Twitter' section with a link to the deegree Twitter account.

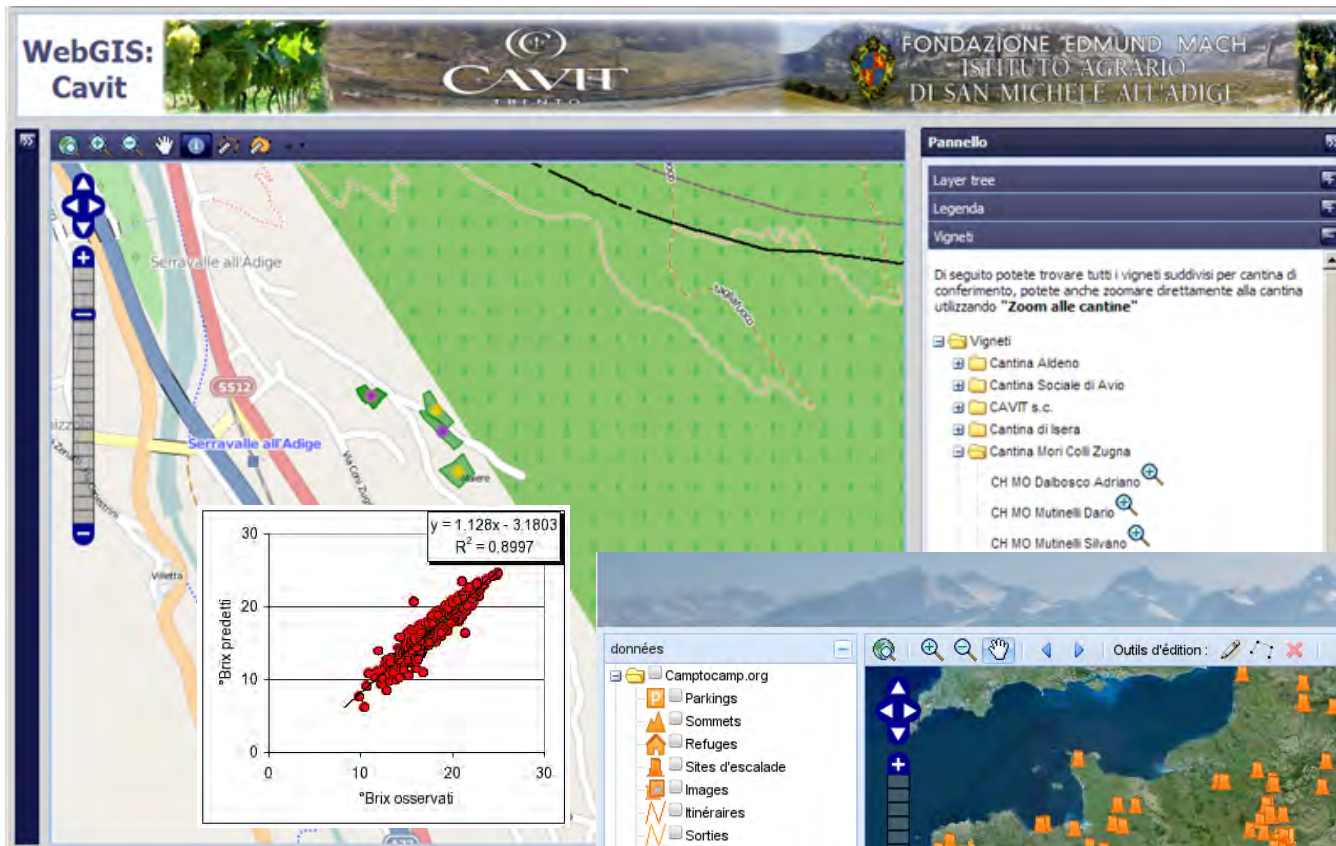



The screenshot shows the MapServer website homepage. The navigation menu includes 'Home', 'Docs', 'Issue Tracker', 'FAQ', and 'Download'. The main heading is 'MapServer open source web mapping'. Below this, there is a 'Welcome to MapServer' section with introductory text about the project's history and goals. A 'FOSS4G DENVER 2011' logo is visible. The 'Announcements' section lists recent releases, including 'MapServer 5.6.6 is released' and 'MapServer 5.6.5 released, fixes a scale calculation issue in 5.6.4'.

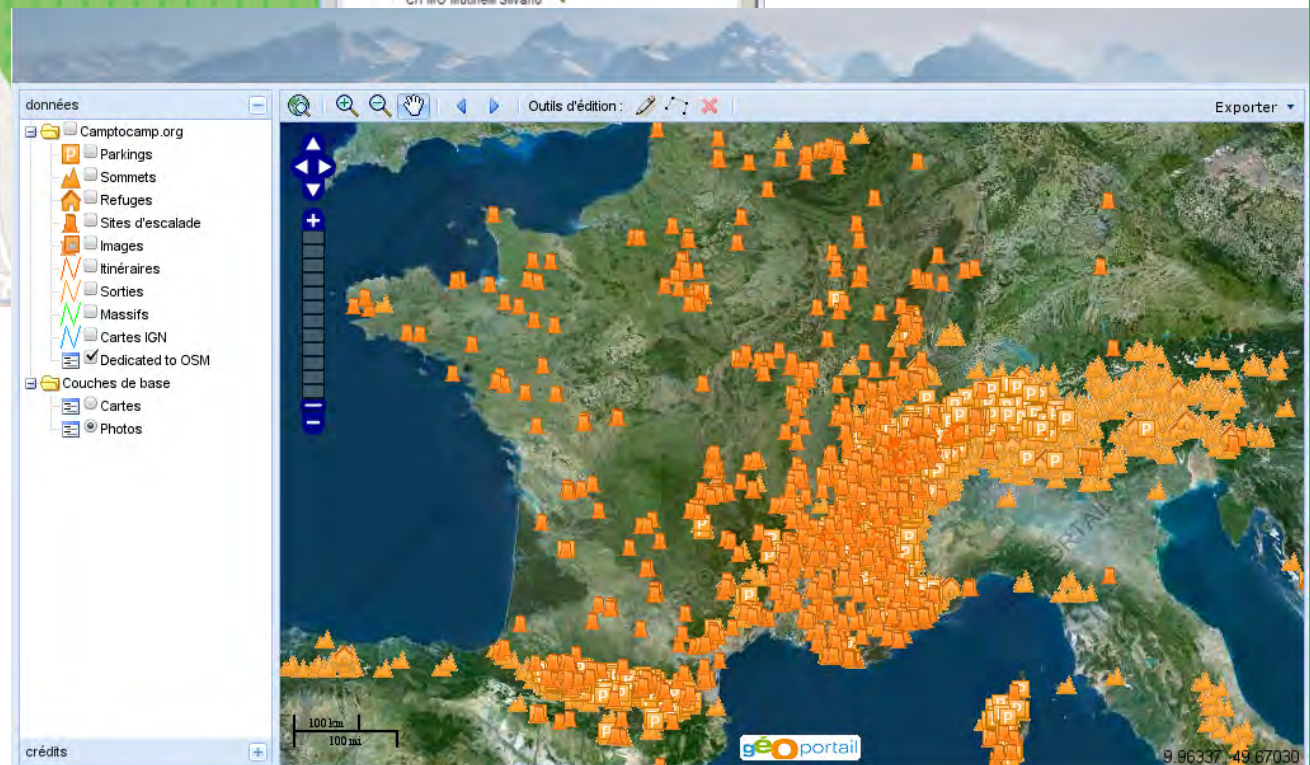


The screenshot shows the PyWPS website homepage. The navigation menu includes 'Home', 'About', 'Communities', 'Resources', 'Downloads', and 'Blog'. The main heading is 'Welcome to PyWPS (Python Web Processing Service)'. Below this, there is a 'FOSS4G' section and a 'News' section with a date '2011-01-17'. The main content area features a large 'ZOO' logo and the text 'OPEN WPS PLATFORM'. A 'Download now!' button is present. The 'Welcome to the ZOO Project' section describes the project as an open source framework for creating and chaining WPS Web services. It lists three main components: 'ZOO Kernel', 'ZOO Services', and 'ZOO API'. On the right, there is a 'Support ZOO-Project' section with a 'Donate' button and a 'Follow the ZOO' section with a Twitter link.

The OSGeo "ecosystem": Web Mapping



Mapfish



The OSGeo "ecosystem": Web mapping



Mapbender

Mapguide Open Source

The OSGeo "ecosystem": Web mapping

GeoMajas



Attribute table

Select a layer: Meetpunten PM2.5 Refresh Table

id	Postcode	Gemeente	Deelgemeent	Straatnaam	Minimum	Maximum	Gemiddeld
44R731	9940	Evergem	Evergem	Doomzeelses 7		129	24
42N045	3500	Hasselt		Bosbeemden 6		125	22
				Plantin Moretuslei 7		106	24
				Westmoerstrs 5		105	19
						102	24

Metingen - Hasselt

id	Waarde	Datum
1827	9	1/1/07
1832	10	1/2/07
1837	13	1/3/07
1842	13	1/4/07
1847	12	1/5/07
1852	10	1/6/07
1857	8	1/7/07
1862	6	1/8/07
1867	6	1/9/07

Feature detail - Hasselt

Attribute	Value
Postcode	3.500
Gemeente	Hasselt
Deelgemeente	
Straatnaam	Bosbeemdenstraat
Minimum	6
Maximum	125

Metingen voor 2007

The OSGeo “ecosystem”: Web mapping



The screenshot shows the White House website's 'BRIEFING ROOM' section. The main heading is 'HOW ARE YOU DELIVERING ON CHANGE?'. Below it, there are two paragraphs of text. To the right, there is a section titled 'LOOKING FOR A WAY TO SERVE THAT'S RIGHT FOR YOU?' with a sub-heading 'SERVE.GOV'. Below this text is a small browser window showing the 'SERVE.GOV' website. The main visual is a map of the United States with numerous orange circular markers. A zoomed-in view of the state of Florida is shown, with a specific location in Nassau highlighted. The map includes a legend with a compass and a plus sign. At the bottom of the map, it says 'Data © 2009 OpenStreetMap. Rendering © 2009 CloudMade.' and 'Select stories of service from around the country'.

Openlayers and OSM meet Obama...

The OSGeo “ecosystem”: Metadata catalogue



The banner features a central globe with a yellow mouse cursor pointing at it. The globe is surrounded by a blue, semi-transparent map of the world. Three diagonal panels extend from the globe, each containing a different image: a person in a field, a group of people in a boat, and a large crowd of people. The text "GeoNetwork" is in blue and "Opensource" is in yellow, both in a large, sans-serif font. At the bottom, the text "Geographic data sharing for everyone" is in blue, followed by a vertical line and the URL "http://geonetwork-opensource.org" in black.

GeoNetwork
Opensource

Geographic data sharing
for everyone | <http://geonetwork-opensource.org>

The OSGeo “ecosystem”: Libraries



PostGIS

GEOS

Geometry
Engine
Open
Source



GeoTools

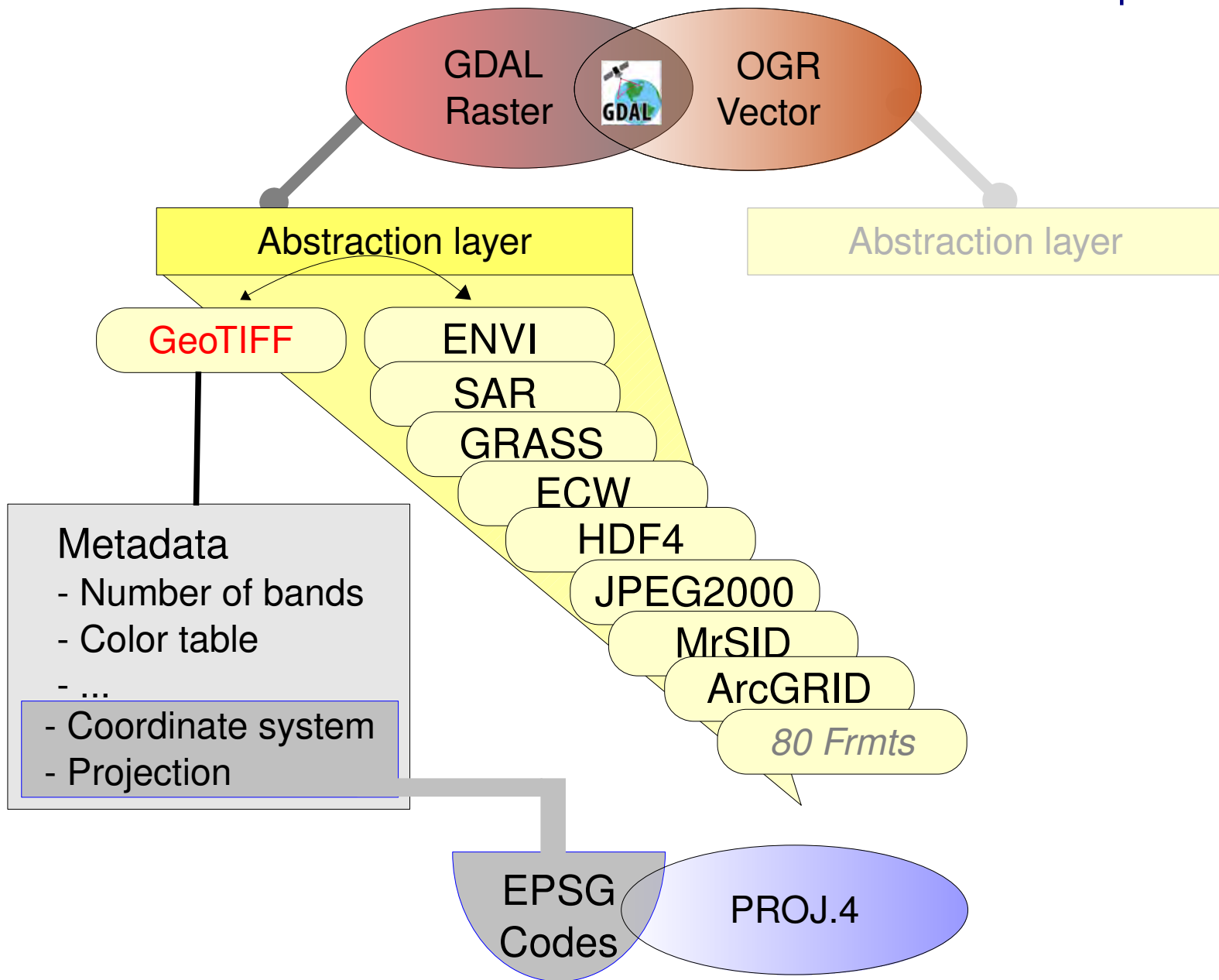
PROJ.4

The OSGeo "ecosystem": Libraries



<http://www.gdal.org>

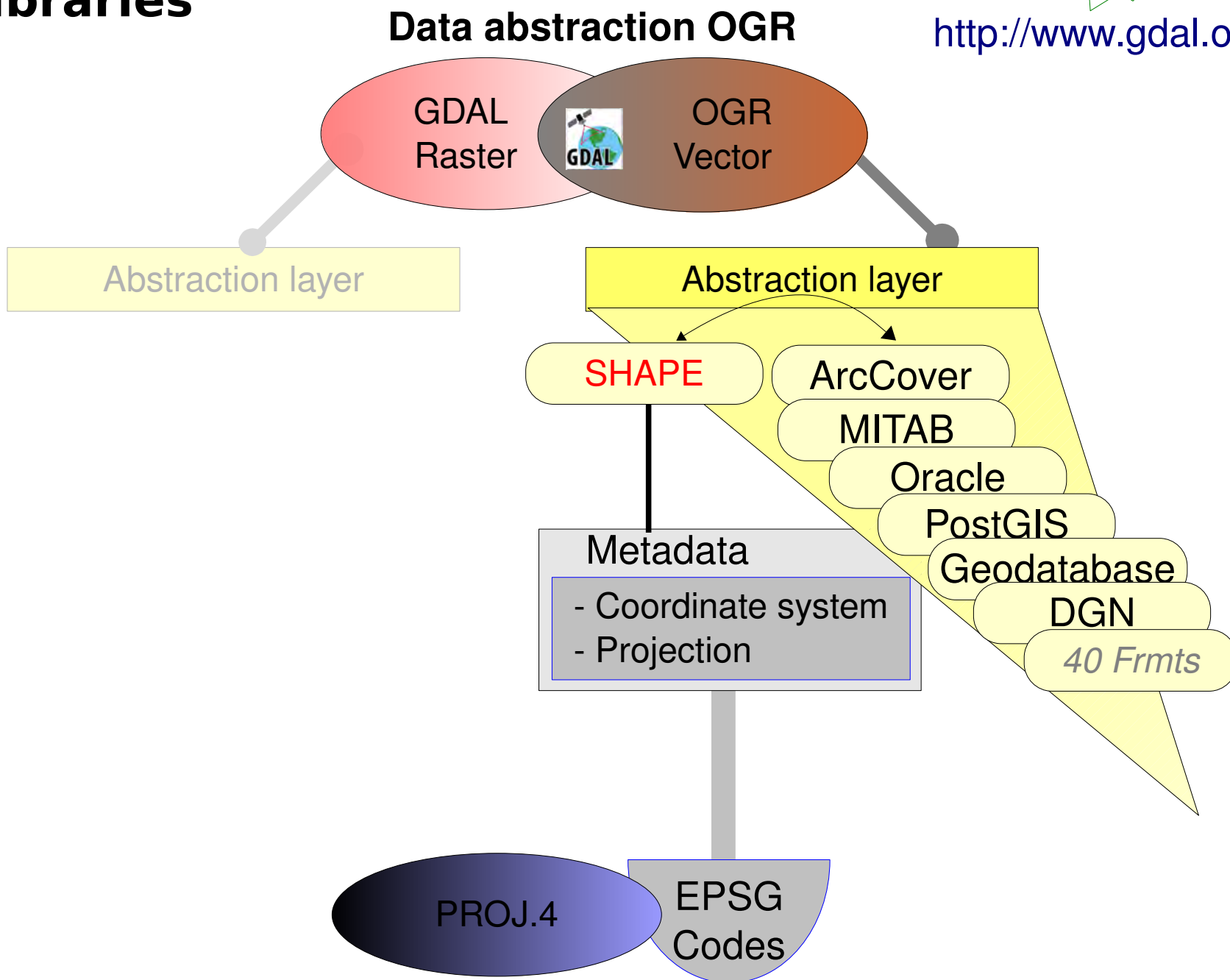
Data abstraction GDAL



The OSGeo "ecosystem": Libraries



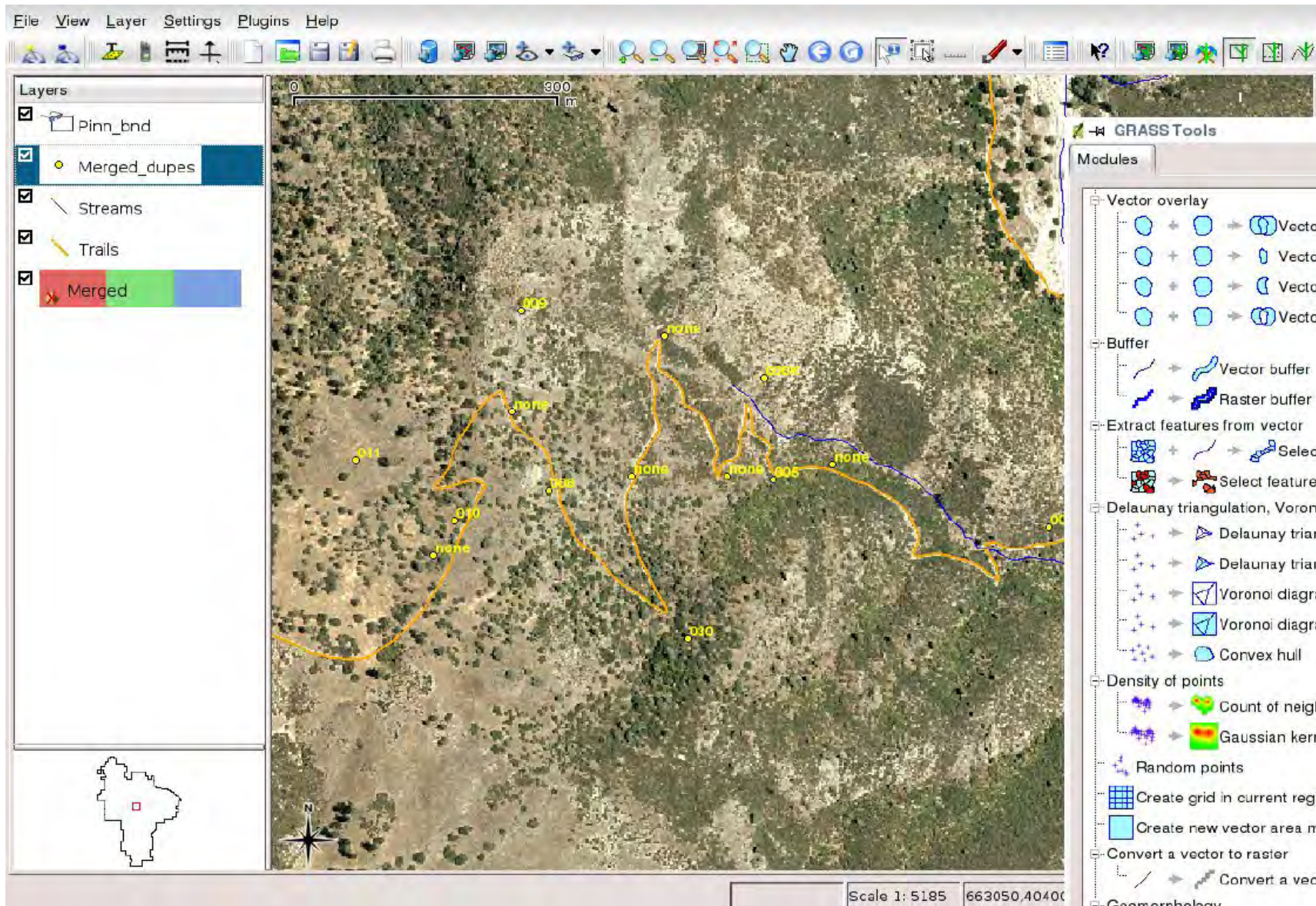
<http://www.gdal.org/ogr/>



The OSGeo “ecosystem”: Desktop GIS



QGIS with GRASS toolbox



The OSGeo “ecosystem”: Desktop GIS



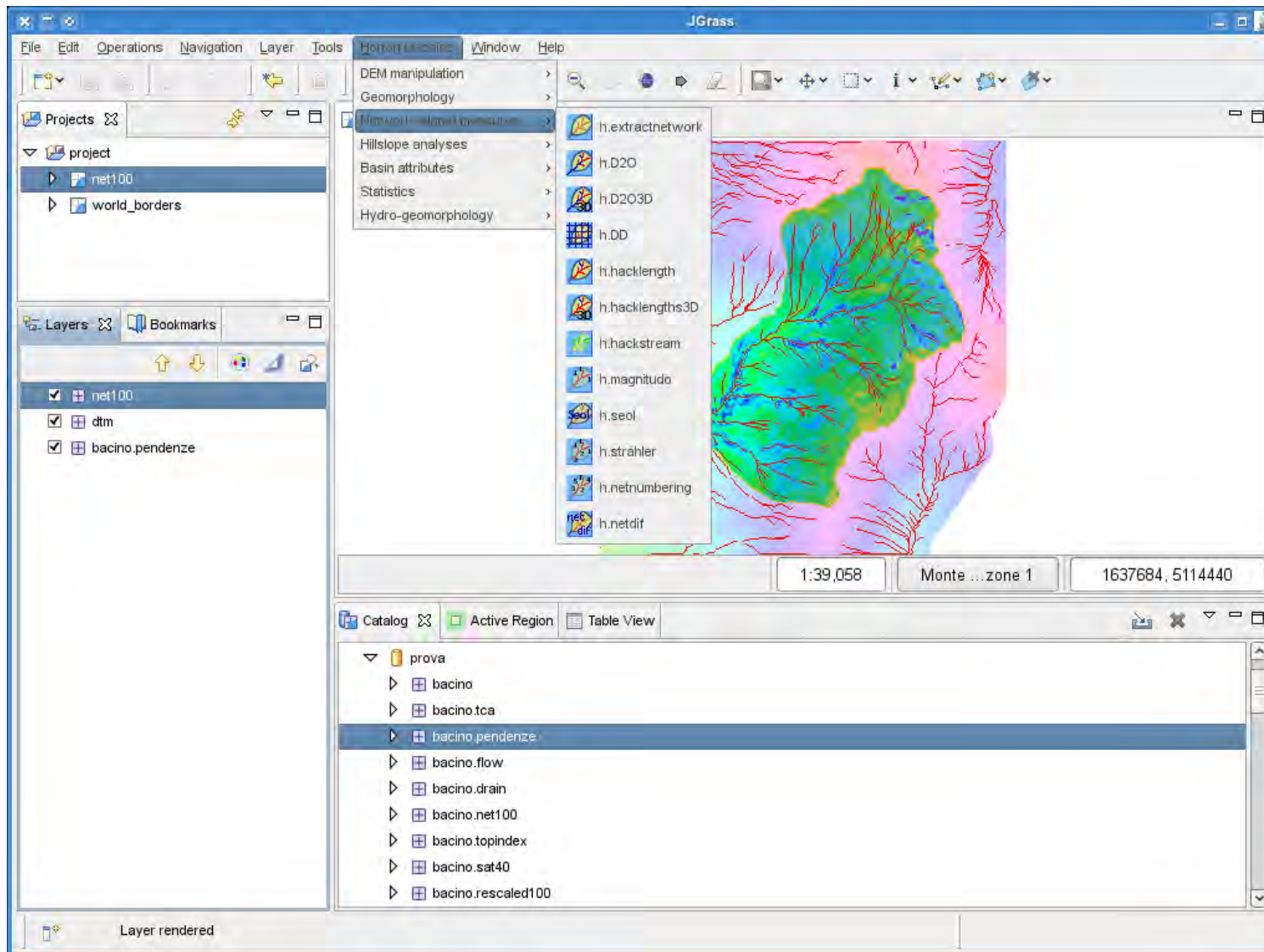
GvSIG + Sextante with GRASS integration

The screenshot displays the GvSIG Desktop GIS interface. The main window shows a map of South America with a legend titled "country-earth" listing regions: Antarctica, Asia, Australia, Caribbean, Europe, Latin Ameri, North Amer, NorthAfrica, Pacific, and Sub Sahara. An attribute table titled "Table: Table of attributes: country-e..." is open, showing columns for IDR_ID, NAME, NOMBRE, GMI_CNTRY, and Lat. The table contains 20 rows of data, with the first row highlighted. The status bar at the bottom indicates "Application started" and "Meters".

IDR_ID	NAME	NOMBRE	GMI_CNTRY	Lat
8	Argentina	Argentina	ARG	Lat
18	Belize	Belice	BLZ	Lat
22	Bolivia	Bolivia	BOL	Lat
25	Brazil	Brasil	BRA	Lat
37	Chile	Chile	CHL	Lat
39	Colombia	Colombia	COL	Lat
42	Costa Rica	Costa Rica	CRI	Lat
51	Ecuador	Ecuador	ECU	Lat
53	El Salvador	El Salvador	SLV	Lat
58	Falkland I...	Falkland I...	FLK	Lat
63	French Gu...	Guayana F...	GUF	Lat
75	Guatemala	Guatemala	GTM	Lat
78	Guyana	Guyana	GUY	Lat

The OSGeo “ecosystem”: Desktop GIS

Udig with JGRASS



The OSGeo “ecosystem”: Desktop GIS

OSSIM and OSSIM Planet



The OSGeo “ecosystem”: Try it without hassle – OSGeo LiveDVD and LiveUSB

<http://live.osgeo.org/>



[Home](#) [Contents](#) [Standards](#) [Download](#) [Contact Us](#) [Sponsors](#)

Welcome to OSGeo-Live 4.0.1

[OSGeo-Live](#) is a self-contained bootable DVD, USB thumb drive or Virtual Machine based on [Xubuntu](#), that allows you to try a wide variety of open source geospatial software without installing anything. It is composed entirely of free software, allowing it to be freely distributed, duplicated and passed around.

It provides pre-configured applications for a range of geospatial use cases, including storage, publishing, viewing, analysis and manipulation of data. It also contains sample datasets and documentation.

To try out the applications, simply:

1. Insert DVD or USB thumb drive in computer or virtual machine.
2. Reboot computer. (verify boot device order)
3. Press "Enter" to startup & login.
4. Trial applications from the "Geospatial" menu.

Many applications are also provided with installers for Apple OSX and Microsoft Windows.

Quick Starts

- [Getting started with the OSGeo-Live DVD](#)



Public Geodata: OpenStreetMap (OSM)

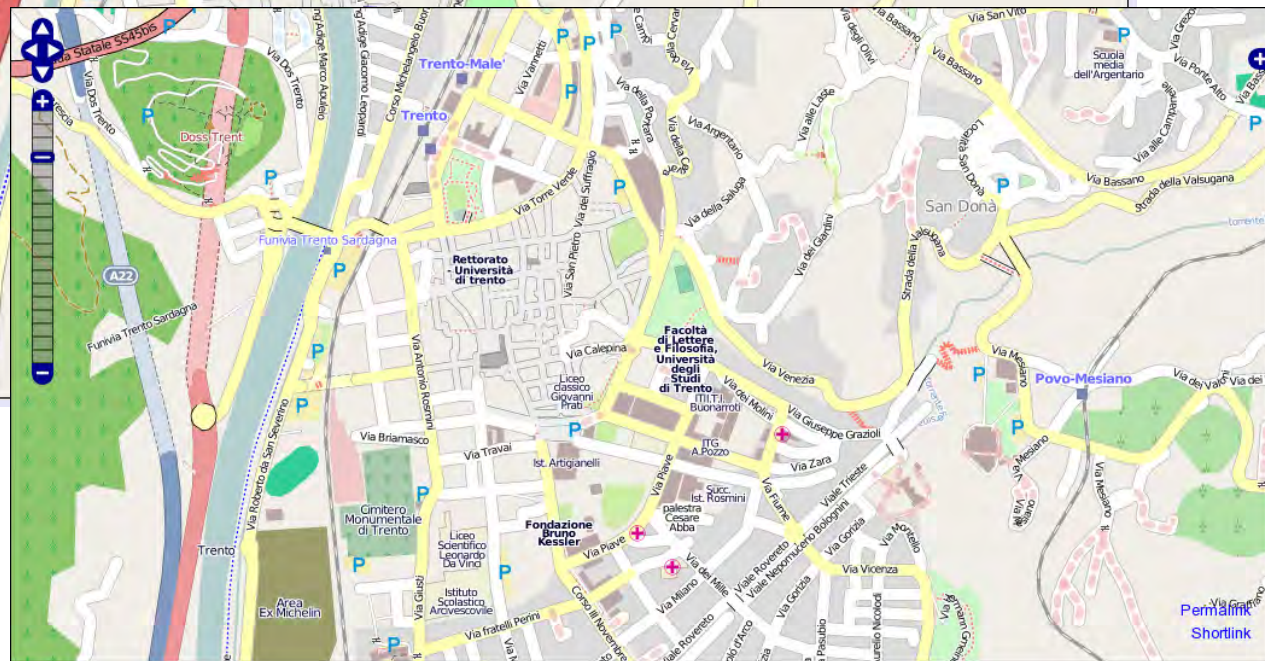
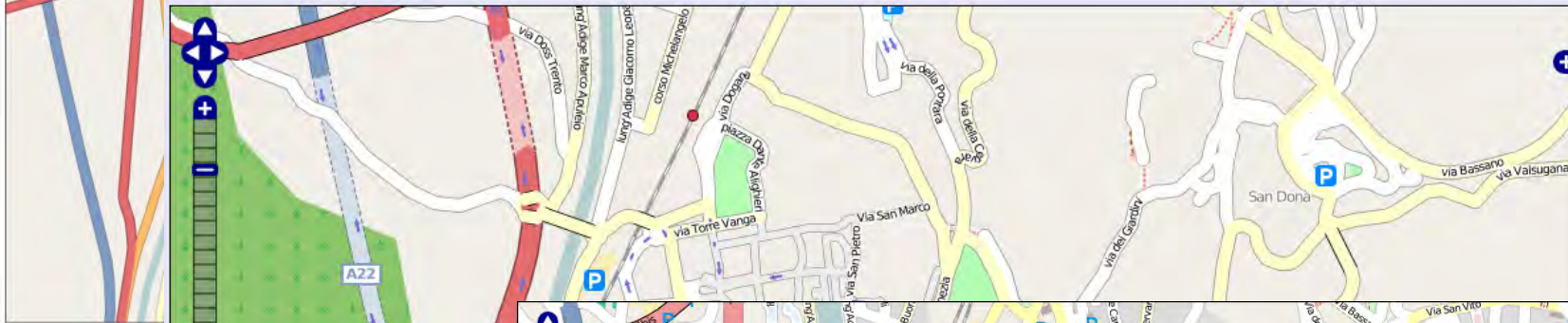


Trento:
April 2008

May 2008



<http://www.flickr.com/photos/24199866@N07/2505758243/>



Data with
free license!

Nov 2009

The OSGeo “ecosystem”: Education – enable people to teach and learn

2011: 60 Tutorials and courses

http://www.osgeo.org/educational_content

OSGeo Foundation

- [Home](#)
- [About the Foundation](#)
- [FAQ](#)
- [Sponsors](#)
- [Sponsor OSGeo](#)
- [Incubator](#)
- [Swag Store](#)
- [Contact](#)

OSGeo Community

- [Welcome](#)
- [Member Area](#)
- [News](#)
- [Events](#)
- [Wiki](#)
- [Mailing Lists](#)
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- ▶ [Books](#)
- [IRC](#)
- [Service Providers](#)
- [Journal](#)
- [Sol Katz Award](#)
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- [Spotlights](#)
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Language

- [English](#)
- [Български](#)
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- [Français](#)

OSGeo Educational Content Inventory

Search the listing by entering filter criteria. Click here to [Reset your criteria](#).
Add your own course material [here](#) or monitor content using this [RSS feed](#).

Title	Software	Language	Keyword
<input type="text"/>	<input type="text"/>	<div style="border: 1px solid black; padding: 2px;"> <All> Abkhazian Afar Afrikaans Akan Albanian Amharic Arabic </div>	<input type="text"/>
			<input type="button" value="Submit"/>

Title	Author(s)	Date added
Using GDAL – Geospatial Data Abstraction Library – from a high-level programming language Perl	Ari Jolma	2009-06-29 07:37
SigLibres - French-language moodle course site on FOSSGIS	Moritz Lennert	2009-05-18 07:25
Руководство пользователя gvSIG 1.1	GIS-Lab.info (see link for full list)	2009-04-20 23:33
Начало работы с GeoServer	Dmitry Kolesov	2009-04-20 23:30



OSGeo Projects

Web Mapping

- [deegree](#) ♦
- [Mapbender](#)
- [MapBuilder](#)
- [MapGuide Open Source](#)
- [MapServer](#)
- [OpenLayers](#)

Desktop Applications

- [GRASS GIS](#)
- [OSSIM](#)
- [Quantum GIS](#)
- [gvSIG](#) ♦

Geospatial Libraries

- [FDO](#)
- [GDAL/OGR](#)
- [GEOS](#) ♦
- [GeoTools](#)
- [MetaCRS](#) ♦

Metadata Catalog

- [GeoNetwork](#)

The OSGeo “ecosystem”: The Community – International & Local chapters



Main goals:

- **Legal association** with membership (you are welcome!), Donations
- **Support** for and among the members
- **Conferences:** annual **GFOSS conference**, ASITA, ...
- **Marketing:** flyers, logo, website
- **Translations:** OSGeo software in Italian, ... language
- **Education:** e-Learning, courseware

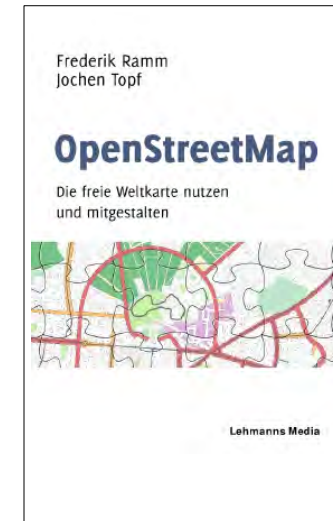
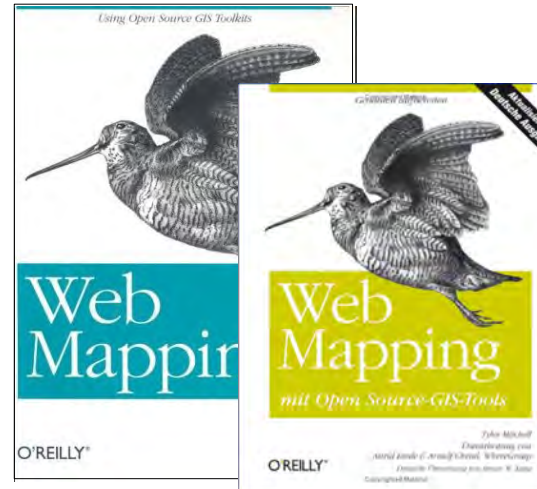
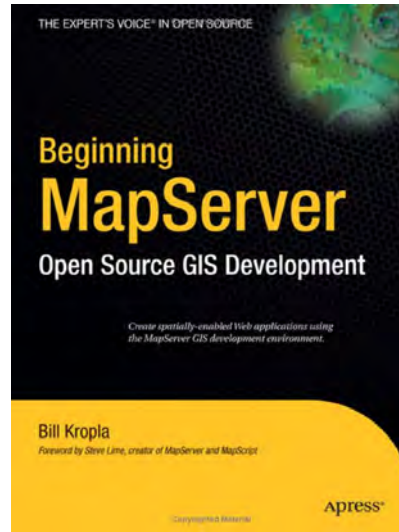
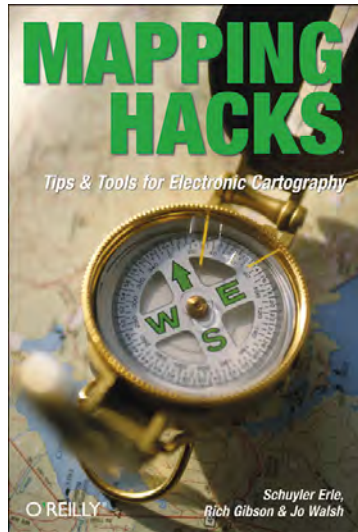


Likewise: Francophone, D-A-CH, Japan, China, ... see <http://www.osgeo.org/content/chapters/>

FOSS4G bookshelf: read more!

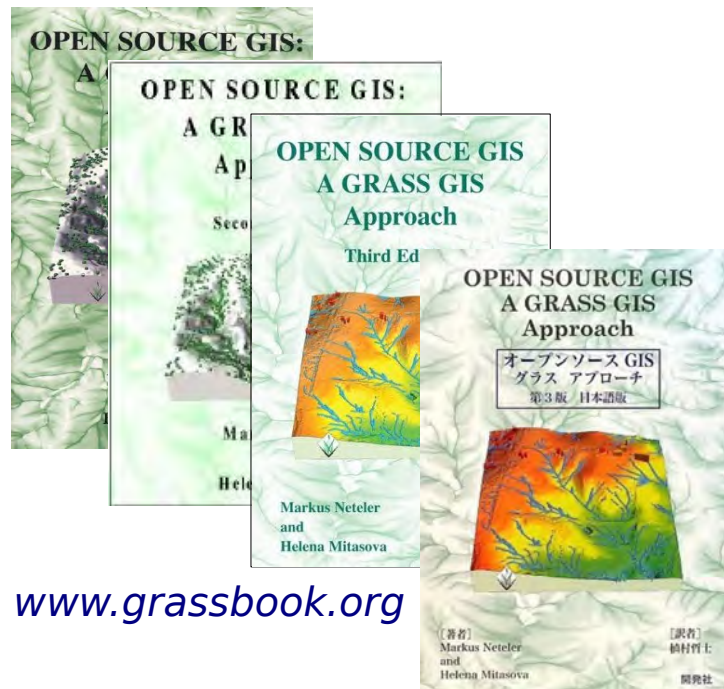
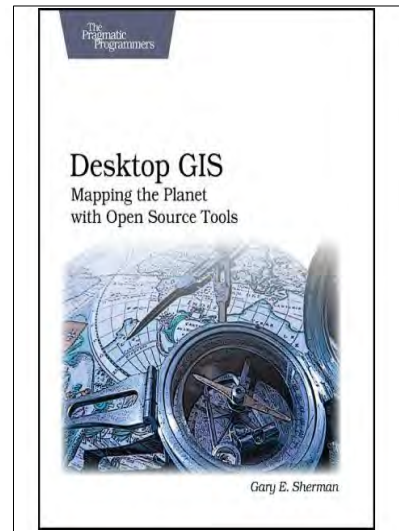
2005

<http://wiki.osgeo.org/wiki/Library>



www.mappinghacks.com

www.spatialguru.com



www.grassbook.org

2008



2009

OSGeo Sponsors

Principal Sponsors

Autodesk

Read more about Autodesk's commitment to open source...



Supporting Sponsors

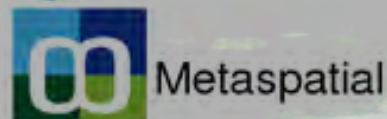
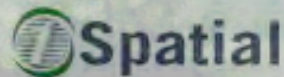
INPE

INSTITUTO NACIONAL DE PESQUISAS ESPACIAIS

INGRES



Associate Sponsors



FOSS4G Business Trends

OSGeo Service Providers directory

http://www.osgeo.org/search_profile

- Voluntary registration (130+ companies currently registered)
- 25 companies with ≥ 20 employees

FOSS4G business model:

- **service oriented** and **customization**
- **Value** is the solution, not the technology
- Solutions drive the technology - not the other way around
- FOSS4G can be **commercial used!**

... a success!

Afganistan 1	Netherlands 2
Arab 1	Sweden 2
Argentina 1	Brazil 3
Austria 1	Ireland 3
Belarus 1	Korea 3
Chile 1	France 4
Emirates 1	India 4
Luxembourg 1	Spain 4
Malaysia 1	Switzerland 4
New 1	Africa 5
Norway 1	Japan 5
Philippines 1	South 5
Portugal 1	Belgium 6
Romania 1	Poland 6
Russia 1	Australia 10
Ukraine 1	Italy 10
United 1	Canada 11
Zealand 1	England 11
Denmark 2	Germany 17
Greece 2	USA 28
Israel 2	

*OSGeo Service
Providers (2/2011)*

It has been a long way...

... to be on the top of the clouds!

Time for the next speaker...!

