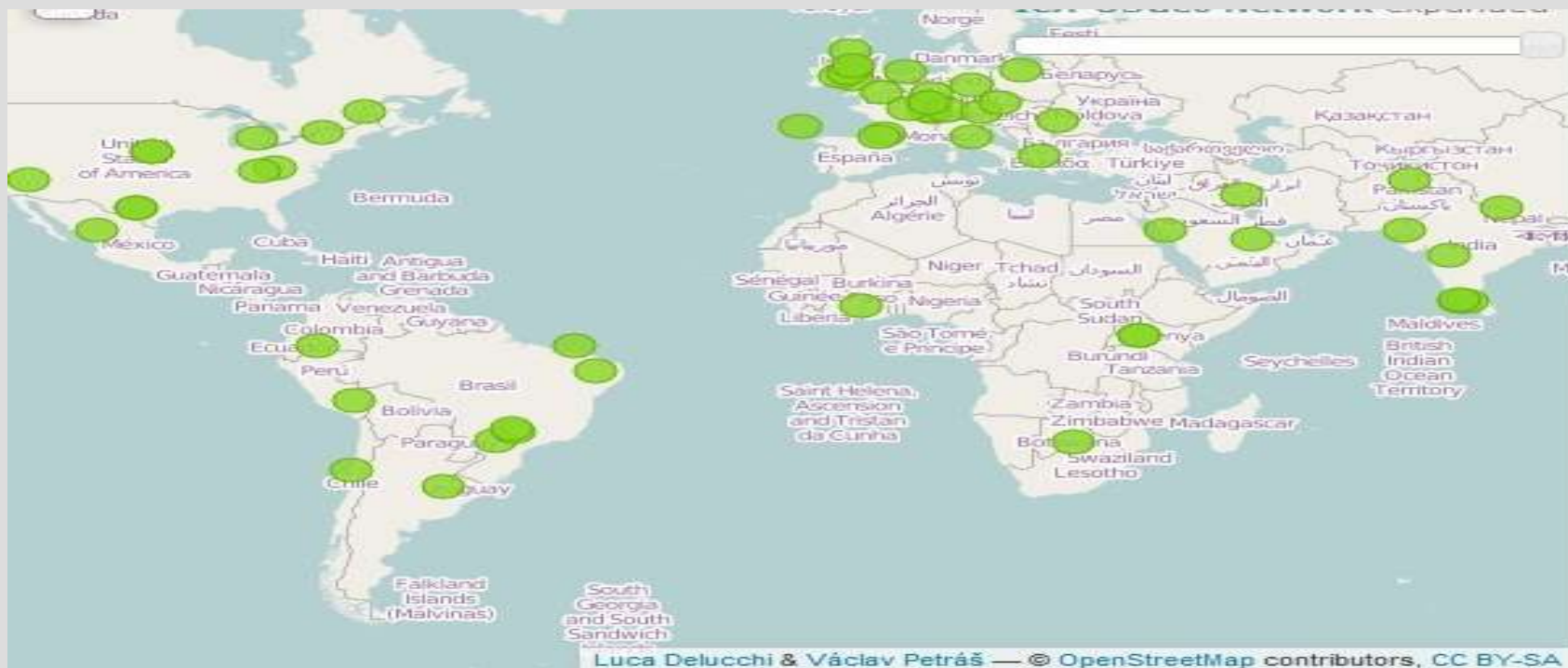


Importance of Openness in Geospatial Education and Research

“Geo for All”

Suchith Anand



Open Geospatial Labs are being established worldwide to scale up research and teaching globally as part of the ICA-OSGeo MoU

What is the economic impact of GEO SERVICES

Oxera

Geo services are:



Satellite receivers and manufacturing



Satellite imagery



Location based search

Geo services global revenues are \$150–\$270 billion per year

Video games industry \$25 billion

Geo services \$150–\$270 billion

Airline industry \$594 billion

Geo services global added value is around \$100 billion per year



Geo services save:



Geo services facilitate competition, leading to savings from reduced prices among infrequently bought goods and services of up to:



Geo services can improve agricultural irrigation, helping to achieve global cost savings per year of:



Source: Oxera [2013], 'What is the economic impact of Geo?', January.

Geo services aid faster emergency response; for example, in England Geo services may have helped to save at least 152 lives per year



Students educated using Geo services can expect

3%

higher average wages five years after graduation than those who weren't

My question?

Excellent growth in Geospatial

BUT

Very few universities in developing countries were till recently were able to run Geospatial courses

Why is Geoeducation important?

- ♦ GLOBAL URBAN PROBLEMS:
access to water, sanitation, traffic congestions, economic sustainability, citizens' health, impact on environment ...
- ♦ Mapping is a critical component to help understand and develop solutions for urban growth problems
- ♦ Proprietary software tools are very expensive (hence unavailable) for economically poor countries and communities worldwide



Kibera , Kenya

<http://www.flickr.com/photos/8485582@N07/7365580810>



Dharavi, Mumbai

<http://www.flickr.com/photos/56685562@N00/2340042701>

GIS tools play a key role in helping find solutions to global societal challenges

Why - Social Responsibility

Making resources including software and data openly available offers an opportunity for knowledge to be shared widely so as to increase learning opportunities.

Example – Collaborating with educational initiatives like gvSIG Batoví



1. What is gvSIG Batoví?

Plan Ceibal

- First adoption in the world of the OLPC initiative at a National level
- Every primary school student in Uruguay has an XO, and more than 98% of all students have Internet connectivity at home, provided through Plan Ceibal
- It also includes secondary schools now



For details contact:
Sergio Acosta y Lara
sacosta@dnstopografia.gub.uy
Alvaro Anguix
aanguix@gvsig.com



Poor Communities are now getting their voice heard through citizen mapping initiatives



CITIZEN MAPPING

CITIZEN MEDIA

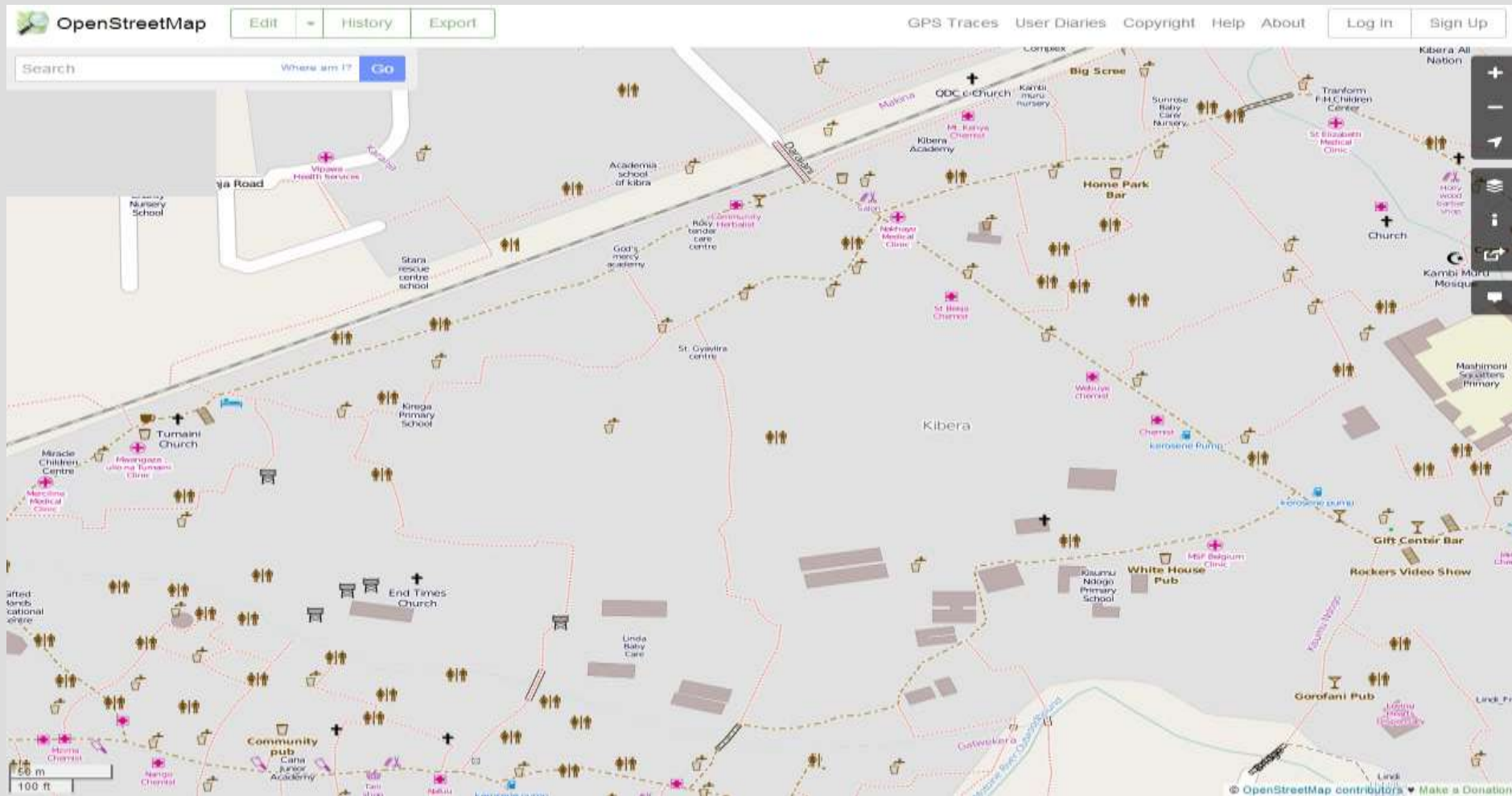
CITIZEN ADVOCACY

Kibera in Nairobi, Kenya, was a blank spot on the map until November 2009, when young Kiberans created the first free and open digital map of their own community. Map Kibera has now grown into a complete interactive community information project. We work in **Kibera**, **Mathare** and **Mukuru**, use all these **tools**. **Get in touch!**

Putting marginalized communities on the map

<http://mapkibera.org/>

Kibera in Open Street Map



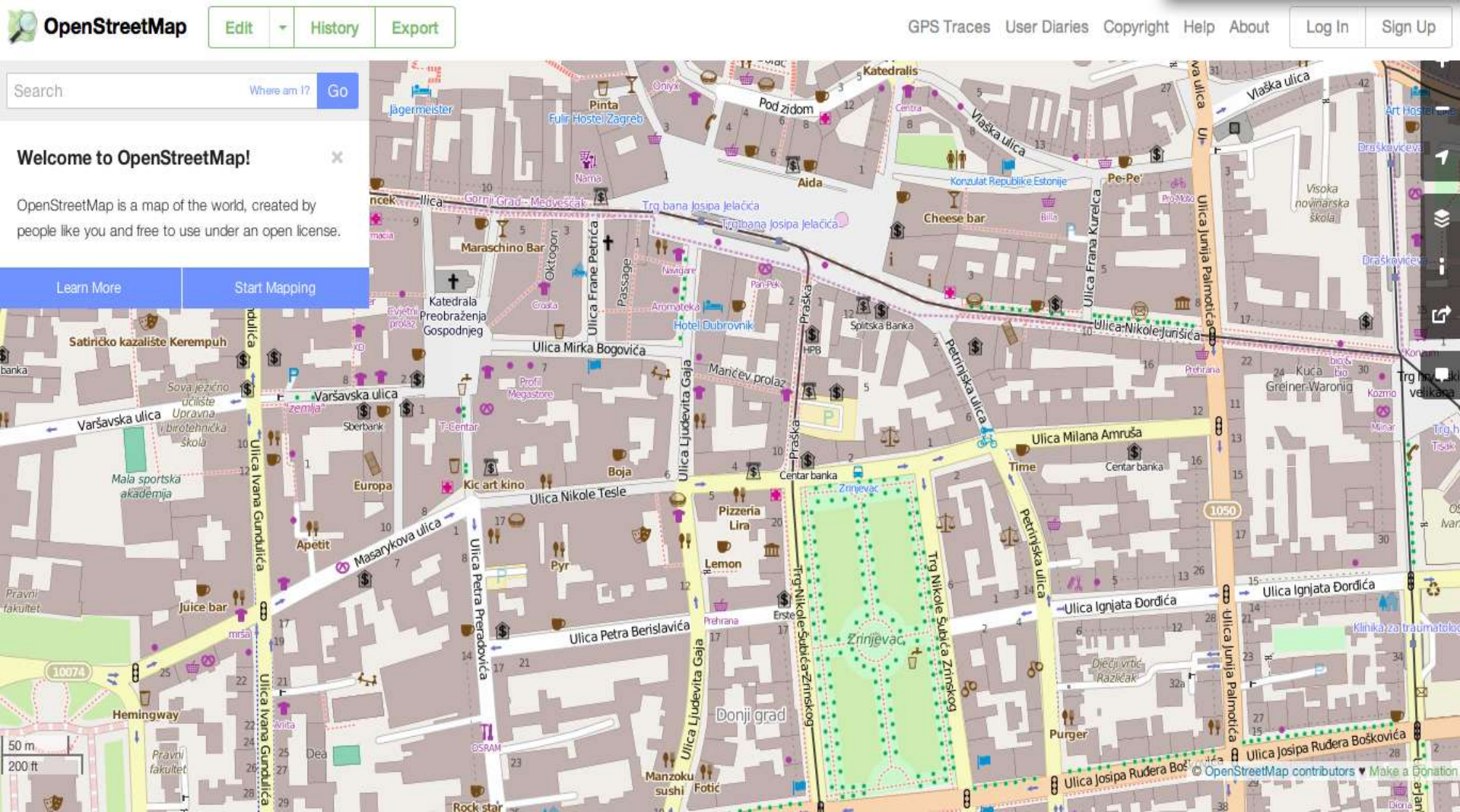
Mapping is fundamental to infrastructure development (access to water, sanitation, electricity etc)

Volunteered data

OpenStreetMap:

The Free Wiki World Map

The world's largest collaborative geospatial database made by the volunteers



Registered users



<http://wiki.openstreetmap.org/wiki/Stats>

Mission

Making Geospatial
education

accessible to all

“Geo for All”

The need for Free and Open

- ♦ lowers the access cost to geospatial software for education, government and industry applications
- ♦ enhancement of research and teaching in geospatial science and technology
- ♦ research and development of Spatial Data Infrastructures and need for more transparency, accessibility and long term sustainability.
- ♦ creates healthy competition for proprietary software.

- Guide "GIS in schools"
- EduGIS Working Group
- Junior high school
- High school
- EduGIS knowledge base
- Workshops
- Discussion forum

Mapzone

Protected Planet



Guide "GIS in schools"



This project was completed with the support granted by Iceland, Liechtenstein and Norway by means of co-financing from the European Economic Area Financial Mechanism and the Norwegian Financial Mechanism as part of the Scholarship and Training Fund.



The culmination of the project is a book EDUGIS Academy GIS in school. Guidebook for biology, geography and science teachers.

You can download a guidebook [here](#).

Lesson plans along with work cards and other additional materials are available below:

[Junior high school](#)

[High school](#)

[Download the Table "GIS Skills"](#)

Guide along with additional materials are available under the CC-BY-NC-ND Creative Commons License. It means, dear Reader, that you may share them with your students (Share-alike), under the following conditions:

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- **you'll use the work/material only for non-commercial purposes** (non-commercial condition - NC);
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Thanks to Elżbieta Wołoszyńska-Wiśniewska and colleagues at UNEP-GRID), Warsaw

OSGeo Live - Excellent resource for education



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Welcome to OSGeo-Live 7.9

[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 if necessary)
3. Press "Enter" to startup & login.
4. Select and run 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](#)
- [Change language or keyboard type](#)
- [Install OSGeo-Live on your hard disk](#)
- [Run OSGeo-Live in a Virtual Machine](#)
- [Create an OSGeo-Live bootable USB thumb drive](#)

Presentation



Thanks to OSGeo Live team

Credits

Developers and Translators

Activity Workshop	Agustín Díez	Alkaterini Kapsampelli	Alan Beccati	Alan Boudreault	Alessandro Furleri	Alex Mandel	Alexander Bruy
Alexander Kleshnin	Alexander Murly	Alexandre Dube	Alexey Ardyakov	Amy Gao	Andrea Antonello	Andrea Yanza	Andrey Syrokomskiy
Andry Rustanto	Angelos Tzotsos	Anna Muñoz	Anton Novichikhin	Anton Patrushev	Antonio Falciano	Argyros Argyridis	Ariel Núñez
Assumpció Termens	Astrid Emde	Barry Rowlingson	Benjamin Pross	Brian Hamlin	Bruno Binet	Bu Kun	Cameron Shorter
Christophe Tufféry	Christos Iossifidis	Cristhian Pin	Damian Wojślaw	Dane Springmeyer	Daniel Kastl	Daria Svidzinska	David Mateos
Denis Rykov	Diego González	Diego Migliavacca	Dimitar Misev	Dmitry Baryshnikov	Dominik Helle	Edgar Soldin	Elke Hinderk Jürrens
Elena Mezzini	Eric Lemoine	Erika Pillu	Estela Llorente	Etienne Delay	Etienne Dube	Evgeny Nikulin	Fran Boon
Frank Gasdorf	Frank Warmerdam	François Prunayre	Friedjoff Trautwein	Gavin Treadgold	Giuseppe Calamita	Graïd Fenoy	Grigory Rozhentsov
Guy Griffiths	Hamish Bowman	Haruyuki Seki	Henry Addo	Hernan Olivera	Howard Butler	Hyeyeong Choe	Ian Edwards
Ian Turton	Ilya Filippov	Jackie Ng	Jan Drewnak	Jane Lewis	Javier Rodrigo	Javier Sánchez	Jesús Gómez
Jim Klassen	Jing Wang	Jinsongdi Yu	Jody Garnett	Johan Van de Wauw	John Bryant	Jorge Arévalo	Jorge Sanz
José Antonio Canalejo	José Vicente Hilgón	Judit Mays	Klokan Petr Pridal	Kristof Lange	Lance McKee	Lars Lingner	Luca Delucchi
Lucía Sanjaime	M Ignaul Haq Siregar	Mage Whopper	Manuel Grizonnet	Marc-André Barbeau	Marc Torres	Marco Curreli	Marco Puppin
Margherita Di Leo	Maria Vakalopoulou	Mario Andino	Mark Leslie	Massimo Di Stefano	Matthias Streulens	Mauricio Miranda	Mauricio Pazos
Maxim Dubinin	Micha Silver	Michael Owonibi	Michaël Michaud	Mike Adair	Milena Nowotarska	Nacho Varela	Nadila Gorash
Nathaniel V. Kelso	Ned Horning	Nobusuke Iwasaki	Oliver Tonnhofer	Otto Dassau	Pasquale Di Donato	Patric Hafner	Paul Meems
Pavel	Pedro-Juan Ferrer	Pirmin Kalberer	Raf Roset	Regina Obe	Ricardo Pinho	Roald de Wit	Roberta Fagandini
Roberto Antolin	Roberto Antolín	Roger Veciana	Ruth Schoenbuchner	Samuel Mesa	Scott Penrose	Sergey Grachev	Sergio Baños
Simon Cropper	Simon Pigot	Stefan A. Tzeggai	Stefan Hansen	Stefan Steiniger	Stephan Meissl	Steve Lime	Takayuki Nulmura
Thierry Badard	Thomas Baschetti	Thomas Gratier	Tom Kralidis	Toshikazu Seto	Trevor Wekel	Valenty González	Vera
Xianfeng Song	Yoichi Kayama	Zhengfan Lin	kuzkok	Óscar Fonts			

Core team: Angelos Tzotsos, Cameron Shorter, Hamish Bowman, Alex Mandel and Brian Hamlin.

Aims of “Geo for All” Initiative

- Establishing research and teaching opportunities in open source GIS and open data
- Build teaching and research infrastructure worldwide
- Provide worldwide learning platforms and training opportunities for capacity development



**Memorandum of Understanding
between the**

Open Source Geospatial Foundation and International Cartographic Association

September 2011

The purpose of this Memorandum of Understanding (MOU) is to establish a collaborative relationship between the Open Source Geospatial Foundation (OSGeo) and the International Cartographic Association (ICA). Both parties to this MOU share the goal of developing on a global basis collaboration opportunities for academia, industry and government organizations in open source GIS software and data.

The MOU will cover the following proposals and topics:

- To provide expertise and support for the establishment of Open Source Geospatial Laboratories and Research Centers across the world for supporting development of open-source geospatial software technologies, training and expertise. In the first phase five laboratories will be established, one each in Asia, Europe, Africa, the Americas and Australasia which will act as nodes for future expansion.
- To provide support for building-up and supporting development of open source GIS training materials. For example through the ELOGeo- eLearning platform for the Open Geospatial Community.
- Development of collaboration opportunities for academia, industry and government organizations in open source GIS for the purpose of creating a sustainable ecosystem for open source GIS globally.
- Joint organization of open source GIS events, workshops through the ICA network for wider participation globally.
- ICA Commission on Open Source Geospatial Technologies to help OSGeo to establish framework for publications for the academic track of FOSS4G conferences.

This MOU will be reviewed annually by both parties at which time revisions may be made and the agreement renewed.

Prof. Georg Gartner
President
International Cartographic Association

Arnulf Christl
President
Open Source Geospatial Foundation



Prof. Georg Gartner (ICA President) and Arnulf Christl (OSGeo President) shake hands after signing the MoU at Intergeo 2011 in Germany (Sep 2011)

International Cartographic Association
Association Cartographique Internationale



News

Past events

Training

Training resources

Webinars

Advisory board

The Advisory Board for the ICA-OSGeo labs initiative are as follows:

- Professor Georg Gartner (ICA President & co-chair)
- Jeff McKenna (OSGeo President & Co-chair)
- Professor Josef Strobl (Austria)
- Professor Marguerite Madden (USA)
- Professor Mike Jackson (UK)
- Sven Schade (Germany)
- Gavin Fleming (South Africa)
- Sergio Acosta y Lara (Uruguay)
- Dr Chris Pettit (Australia)
- Professor Venkatesh Raghavan (India/Japan)
- Geoff Zeiss (Canada)
- Jeroen Ticheler (Italy)
- Phillip Davis (USA)
- Arnulf Christl (Germany)
- Professor Maria Brovelli (Italy)
- Dr Rafael Moreno (USA)



78 labs worldwide
as of 25th May, 2014



“Geo for All” Education Initiative



Distribution ICA-OSGeo labs established in Europe
Image : OSGeoREL @NCSU (6 months back)

ICA-OSGeo MoU in Sep 2011

Over 75 labs established worldwide in 2 years

North America – 13 labs

Europe – 31 labs

South America – 9 labs

Africa – 4 labs

Asia – 15 labs

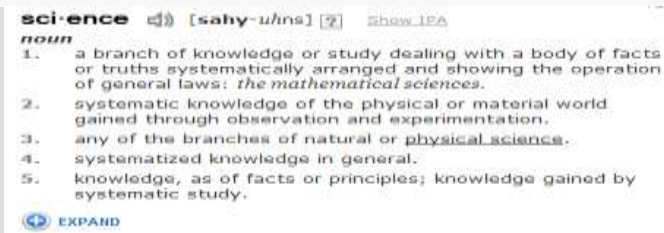
Australia - 1 lab

Will be establishing over 100 labs in universities worldwide by 2014

Why having a framework and
strategy for Open Geospatial Science
important for the future?

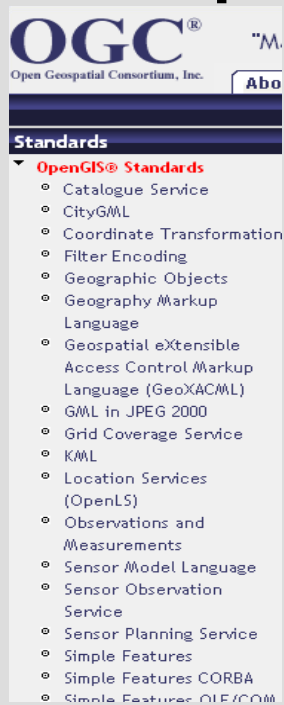
Strategic level
Research
Teaching
Sustainability
Social Responsibility

Big Picture - Open Geospatial Science is key for innovation in GIS



Ability for showing the operation of general laws is fundamental for scientific research

Geospatial Standards (for ex. OGC spec.)



Open Data



Maturity of open source software (for ex. OSGeo stack)



Open Source strategy for the UK government (Jan 2010)

The screenshot shows a Mozilla Firefox browser window displaying the Cabinet Office website. The address bar shows the URL: <http://www.cabinetoffice.gov.uk/resource-library/open-source-open-standards-and-re-use-government-action-plan>. The page title is "Open Source, Open Standards and Re-Use: Government Action Plan | Cabinet Office - Mozilla Firefox".

The website header includes the Cabinet Office logo and a search bar. Below the header is a navigation menu with links: About the Cabinet Office, National Security, Constitutional Reform, Government Efficiency, Transparency, Big Society, and Government: How it works.

The main content area features the title "Open Source, Open Standards and Re-Use: Government Action Plan". Below this is a "Downloads" section with the link "An Open Source strategy for Government". The file type is PDF - Portable Document format, and the file size is 185.52 kB. There is an "Embed downloads" section with an embed code.

The publication date is 27/1/2010. Below this is a "SHARE" button with social media icons for Facebook, Twitter, and LinkedIn.

The "Quick Links" section contains several boxes with links to various pages:

- About us**: Our ministers, Our board, Our structure, Our partners, Plans and performance, Supplying the Cabinet Office, Working for the Cabinet Office.
- National Security**: National Security Council, Civil Contingencies, Intelligence, Government Security, Cyber Security, Whos who, Contact us.
- Constitutional reform**: Overview, Who's who, Contact us, FAQs, Useful links.
- Government Efficiency**: Overview, News, Contact us.
- Transparency**: Overview, Who's who, Contact us, FAQs, Useful links.
- Big Society**: Overview, Who's who, Contact us, FAQs, Useful links.
- How Government works**: The Executive, Government structure, Conduct and ethics, Honours and awards, Privy Council.
- Contact**: Contact the Cabinet Office.
- News**: Latest news.
- Resource Library**: Documents and resources.

<https://www.gov.uk/government/publications/open-source-open-standards-and-re-use-government-action-plan>



Government bodies must comply with Open Standards Principles

1 November 2012

From today all government bodies must comply with [Open Standards Principles](#), an agreed set of standards to make our IT more open, cheaper and better connected, Minister for Cabinet Office, Francis Maude said today.

The Open Standards Principles have been developed following the public consultation 'Open Standards: Open Opportunities – flexibility and efficiency in Government IT' which took place from February to June this year. The principles will help Government to deliver more innovative IT services and further drive savings and encourage more competition for government contracts.

There has been overwhelming support from the public and the IT community for setting an open standards policy for software interoperability, data and document formats:

- nearly 70 per cent of respondents believe the principles would improve innovation, competition and choice in the provision of government services; and
- over 70 per cent agree that they would help improve value for money.

Francis Maude said:

"We know that there are more real savings to be made in Government IT contracts – in the first half of this year, we have already saved £409 million on ICT services."

"Government must be better connected to the people it serves and partners who can work with it - especially small businesses, voluntary and community organisations. Having open information and software that can be used across government departments will result in lower licensing costs in government IT, and reduce the cost of lock-in to suppliers and products.

"It is only right that we are encouraging competition and creating a level playing field for all companies to ensure we



Related links

[Francis Maude speech at an event for IT professionals](#)

Related News and Media

[Liam Maxwell engaged by Efficiency and Reform Group](#)

[ICT Strategy Strategic Implementation Plan to deliver savings of over a billion pounds](#)

[New government Chief Information Officer announced](#)

[CloudStore opens for business](#)

[Cabinet Office and Oracle sign deal to save £75 million for taxpayers](#)

[View all news](#)

Most recent resources

1. Taking account of bidders' past performance
2. List of strategic suppliers
3. Open Standards Consultation responses
4. Open Standards Consultation documents
5. Charitable Incorporated Organisation (CIO) – Secondary Legislation before Parliament

Open agenda is now implemented by the UK Government and delivering huge cost savings for government

£409 million in the first half of 2013 alone

<http://www.cabinetoffice.gov.uk/news/government-bodies-must-comply-open-standards-principles>



DIGITAL AGENDA FOR EUROPE

A Europe 2020 Initiative

[European Commission](#) > [Digital Agenda for Europe](#) > [Blog Home](#)

[Home](#)

[Our Goals](#)

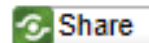
[Life & Work](#)

[Funding](#)

[Science &
Technology](#)

[Telecoms &
the
Internet](#)

The EU Open Data Portal is here



published by [Marta NAGY-ROTHENGASS](#) on Fri, 15/02/2013 - 15:50

Just before Christmas, we launched an important element of the Commission's Open Data Policy: a portal site for data held by the Commission, the European Environment Agency, and potentially other institutions and bodies of the Union.

We have launched it in [beta version](#), and we would love you to try it out and give us feedback while we continue to work on the capabilities and the content of the

DATA PORTAL (BETA)

The Open Data Hub of the European Union

site. The site provides, for the first time, a single point of access to data held by different departments of the

This is also global

Applications Geospatial Places 16:46

Data.gov Goes Global | The White House - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.whitehouse.gov/blog/2011/12/05/datagov-goes-global

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Data.gov Goes Global

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Posted by Steven VanRoekel, Aneesh Chopra on December 05, 2011 at 09:29 AM EST

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Last week, President Obama's unprecedented efforts to advance open and transparent Government reached an important milestone. As part of a joint effort by the United States and India to build an open government platform, the U.S. team has deposited open source code— an important benchmark in developing the Open Government Platform that will enable governments around the world to stand up their own open government data sites.

Last week's announcement is part of a broader effort to make government more transparent, participatory, and collaborative. In September, the United States was one of eight founding governments of the Open Government Partnership, a new multilateral initiative that secures concrete commitments from governments to promote transparency, empower citizens, fight corruption, and harness new technologies to strengthen governance. The President also unveiled the U.S. National Action Plan on Open Government, which detailed steps the United States will take to help meet the initiative's goals.

The plan specifically called for an effort under the U.S.-India Strategic Dialogue to produce "Data.gov-in-a-Box" -- an open source version of the United States' Data.gov data portal and India's India.gov.in document portal. The U.S. and India are working together to produce an open source version available for implementation by countries globally, encouraging governments around the world to stand up open data sites that promote transparency, improve citizen engagement, and engage application developers in continuously improving these efforts. Technical teams from the U.S. and Indian governments have been working together since August of this year, with a planned launch of the open source product (which is now called the Open Government Platform (OGPL) to reflect its broad scope) in early 2012.

The module -- paired with the software for the Open Government Platform website being developed by India -- will enable governments around the world to launch their own open government sites and increase transparency and accountability. In the meantime, the U.S.-India team will continue to improve and integrate the modules of the Open Government Platform for the planned launch early next year.

Steven VanRoekel is the Federal Chief Information Officer

Aneesh Chopra is the Federal Chief Technology Officer

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YOUR FEDERAL TAXPAYER RECEIPT

Launch the Receipt

WHITE HOUSE BLOGS

- The White House Blog
- Middle Class Task Force
- Council of Economic Advisers
- Council on Environmental Quality
- Council on Women and Girls
- Office of Management and Budget
- Office of Public Engagement
- Office of Science & Tech Policy
- Office of Urban Affairs
- Open Government
- Faith and Neighborhood Partnerships

Data.gov Goes Global ...

Open Data – key for innovation and transparency

data.gov.uk^{BETA}
Opening up government

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Apps



Numberhood



UK Pharmacy



UK Crime Stats



London Cycle Hire



UK Pharmacy
Find your nearest pharmacy quickly and easily on your iPhone





PAUSE

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What are apps? | [View all apps](#)

This wide range of apps can provide you with information on everything from local services information, to managing finance, and even environmental issues to name but a few. Search the apps list to find out more.

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Research importance - Increasing software quality

**NATIONAL AERONAUTICS
AND SPACE ADMINISTRATION**

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NASA Open Source Software

NASA conducts research and development in software and software technology as an essential response to the needs of NASA missions. Under the NASA Software Release policy, NASA has several options for the release of NASA developed software technologies. These options now include Open Source software release. This option is under the NASA Open Source Agreement "NOSA".

The motivations for NASA to distribute software codes Open Source are:

- To increase NASA software quality via community peer review

Search
Intelligent Systems Division



FIRSTGOV
Your First Click to the U.S. Government

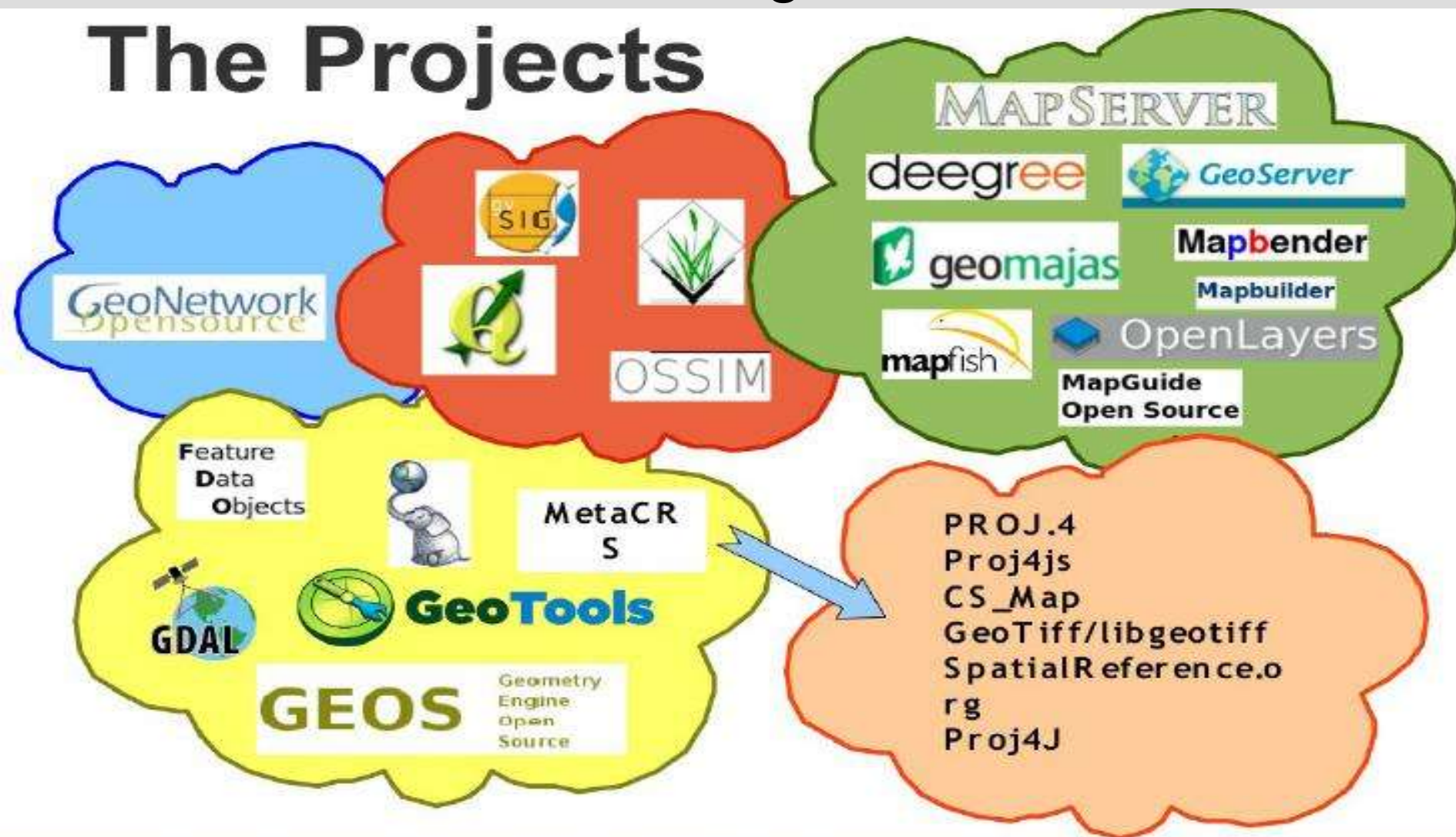
[+ Freedom of Information Act](#)
[+ The President's Management Agenda](#)
[+ NASA Privacy Statement, Disclaimer, and Accessibility
Certification](#)



NASA Official: Dave Korsmeyer
Curator: ASANI Solutions

Reuse big enabler for
Research and Teaching

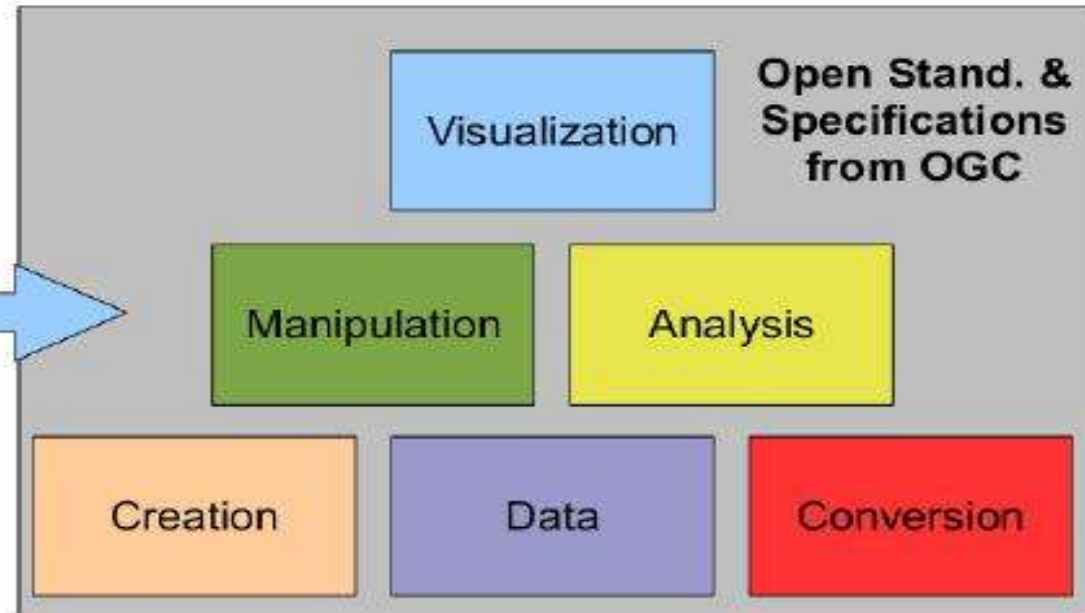
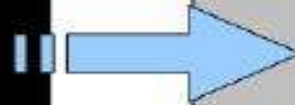
The Projects



Reuse big enabler for
Research and Teaching

Today's Toolkit

**Monolithic
Black Box**



Example from the Geospatial domain

Open Source Geospatial Foundation (OSGeo) established in Feb 2006

Project Development Statistics
Updated: 2-Nov-2008

Project (link to stats page) 	Codebase Lines of code 	Contributors 	Effort (person years) 	Est. cost \$USD 
deegree 	475,756	20	125	6,880,114
gvSIG 	1,797,359	62	506	27,804,278
GEOS 	93,369	14	23	1,252,806
Feature Data Objects (FDO) 	770,748	22	212	11,679,154
GeoNetwork opensource 	359,225	11	93	5,122,974
GeoTools 	1,472,845	46	410	22,548,581
GDAL 	619,706	26	170	9,357,931
Quantum GIS 	193,174	34	50	2,761,972
OSSIM 	525,942	21	143	7,846,712
GRASS GIS 	518,049	61	140	7,682,948
OpenLayers 	68,695	12	17	913,757
MapServer 	108,306	32	27	1,499,454
MapGuide Open Source 	360,959	34	95	5,240,110
Community MapBuilder 	141,198	24	35	1,921,633
Mapbender 	261,029	23	68	3,713,822
Total	7,766,360	442	2,114	116,226,246

OS Geo Product development statistics 2008

Example from the Geospatial domain

OS Geo Product development statistics 2010

Project Development Statistics Updated: 30-Aug-2010				
Project (link to stats page) 	Last ohloh analysis date 	Contributors (last 12mos) 	Contributors (total) 	Lines of code 
GeoServer	2010-08-28T12:13:45Z	26	53	511153
Geomajas	2010-08-30T14:55:22Z	9	15	227598
MapFish	2010-03-27T03:41:32Z	10	17	153555
Mapbender	2010-08-30T22:22:30Z	17	37	873482
Community MapBuilder	2008-06-17T18:24:57Z	9	24	141198
MapGuide Open Source	2009-12-02T20:58:08Z	19	42	377020
MapServer	2010-08-29T03:12:52Z	12	34	176972
OpenLayers	2010-08-30T10:46:42Z	9	14	114389
GRASS GIS	2010-08-31T01:01:09Z	18	64	547834
OSSIM	2010-08-29T07:51:16Z	8	26	979165
Quantum GIS	2010-08-28T15:30:45Z	23	43	1594355
GDAL	2010-08-28T07:40:21Z	21	36	690593
GeoTools	2010-08-29T07:47:06Z	29	78	1672369
GeoNetwork opensource	2010-06-04T16:18:22Z	7	19	830470
Feature Data Objects (FDO)	2010-08-28T23:32:07Z	16	32	1106885
GEOS	2010-08-29T03:46:39Z	6	17	134482
gvSIG Desktop	2008-09-17T22:22:32Z	42	61	1797359
deegree	2010-03-14T10:43:46Z	12	27	664726
PostGIS	2010-08-29T09:02:22Z	8	18	173982
Total	2010-08-30	301	657	12767587

http://wiki.osgeo.org/wiki/Project_Stats



Aim 1

Establishing open
geospatial research
and training
opportunities



OPEN SOURCE OPPORTUNITIES IN GIS

Summer School

28th June - 9th July, 2010. Girona - Spain



SERVEI DE SISTEMES
D'INFORMACIÓ GEOGRÀFICA
I TELEDETECTIÓ
Universitat de Girona



The University of
Nottingham



Aalto University
School of Science
and Technology



... Summer School 2010: LATEST NEWS

LATEST NEWS

WELCOME

L Introduction

L Objectives

L Partners

TARGET AUDIENCE

L Prerequisites

PROGRAMME

L Agenda

L Visit

L Parallel Activity

L Materials

VENUE

L How to arrive

L Where to stay

L Further information

REGISTRATION

COURSE TEAM

LINKS OF INTEREST

Latest News

30/07/2010

- **The materials & results are available.** All documents have been published on this website ([Materials Tab](#))

21/07/2010

- **The Summer School in pictures** The image gallery is already available on Flickr
- **Project materials & results.** All materials and results of the Summer School will be published on this website soon
- **Materials & Illustrations from the Ecole Central de Nantes.** The documents presented at Girona are available on OrbisGIS' website

Very successful summer school initiative
lead by SIGTE, University of Girona now in
its fifth year



Strategic Training Programs



UNITED NATIONS | UNOOSA | UN-SPIDER

United Nations Platform for Space-based Information for
Disaster Management and Emergency Response

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[Home](#) » [About Us](#) » [Events](#) » Hands-on workshop: Open Source GIS and WebMapping for UN staff 20 and 21 November 2012

Hands-on workshop: Open Source GIS and WebMapping for UN staff 20 and 21 November 2012

Time and Duration

Venue City: Vienna

Basic Information

Date: 20/11/2012 - 21/11/2012

Venue: Institute of GVIenna University of Technology, eoinformation and Cartography

Venue Country: Austria

Event Organisers:

The Commission on Open Source Geospatial Technologies of the International Cartographic Association (ICA)

Co-organisers:

Vienna University of Technology, Institute of Geoinformation and Cartography.

The International Symposium on Service-Oriented Mapping (SOMAP 2012)

More Information Link:

<http://kartoweb.itc.nl/kobben/SOMAP-OSGEO-workshop/>

Language of event: English



From 20 to 21 November 2012, the Commission on Open Source Geospatial Technologies of the International Cartographic Association (ICA) will be hosting a hands-on workshop on "Open Source, Open Standards, Open Data for Geospatial".

This event follows the Memorandum of Understanding (MoU) which the ICA signed in 2011, jointly with the Open Source Geospatial Foundation (OSGeo), with a view to develop global collaboration opportunities in the field of open-source GIS software and data for academia, industry and government organizations. This hands-on workshop will allow the participants to learn more about Open Source tools for GIS and mapping on the Web.

CALENDAR

November						
M	T	W	T	F	S	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

[View full page calendar](#)



UPCOMING

- ▶ [United Nations International Expert Meeting on Crowdsourc...](#)
2012-12-03 - 2012-12-05
United Nations Office at Vienna
(Vienna International Centre)
- ▶ [The 5th conference on geoinformation technology for natural...](#)
2013-10-09 - 2013-10-11



[more...](#)

June 2010

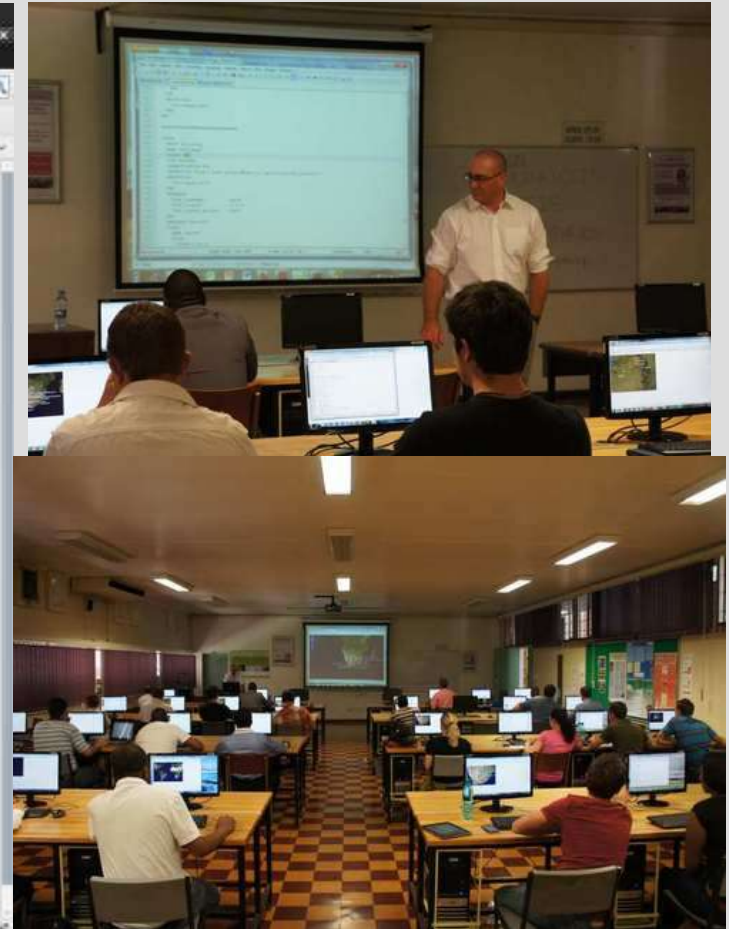
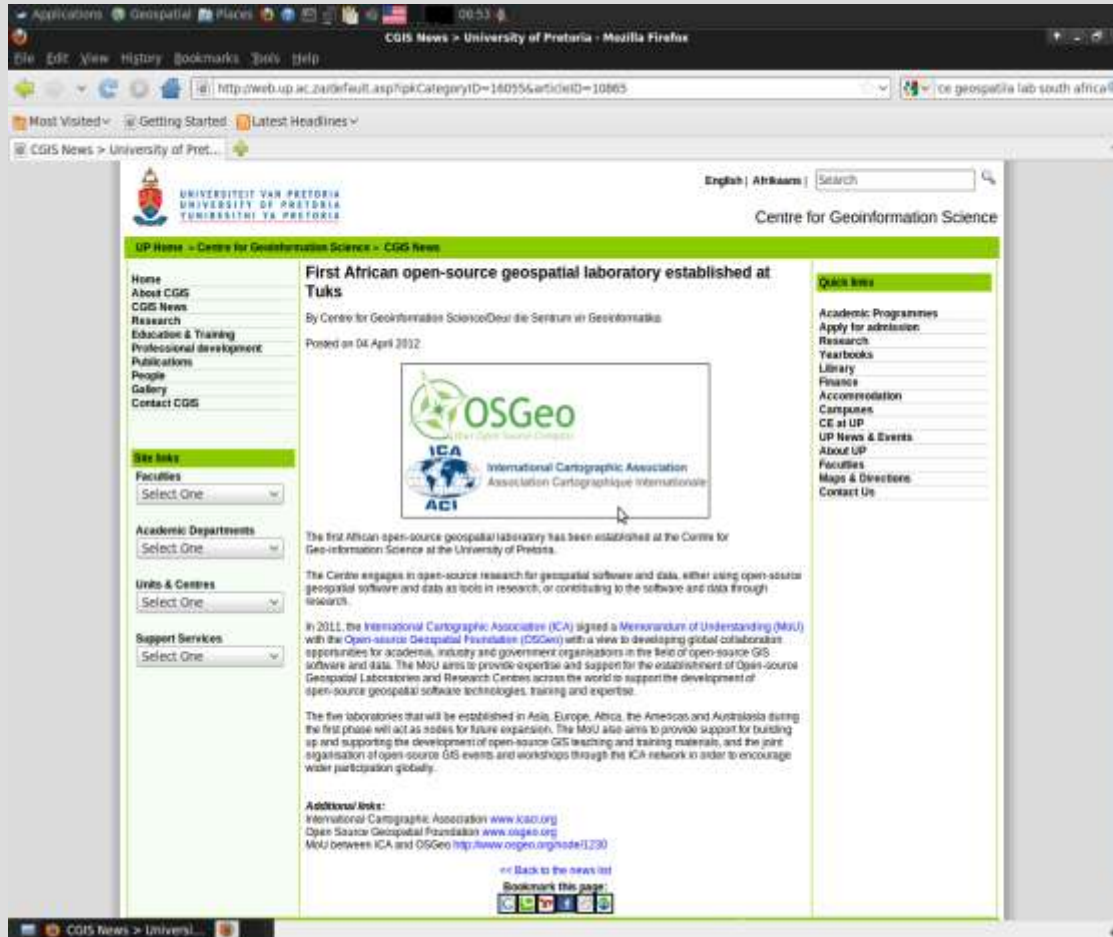
Aim 2 – Build research and teaching infrastructure



Open Source Geospatial Lab founding meeting at UoN

Open Geospatial Labs are being established worldwide to scale up research and teaching in this theme globally (ICA-OSGeo MoU)

University of Pretoria, South Africa



Thanks to Serena Coetzee & colleagues

Launch in October 2012



International Cartographic Association
Association Cartographique Internationale

ICA-OSGeo Lab at the University of Pretoria

First in Africa

Jeff McKenna (OSGeo President) visited us for the launch



Back: Jeff McKenna (OSGeo President), Gavin Fleming (OSGeo South Africa)
Front: Prof Elri Liebenberg (Former ICA vice-resident), Dr Serena Coetzee, Prof Hannes Rautenbach

Education and training

Undergraduate

BSc Geoinformatics

Students from Geology, Zoology, Geography, Spatial planning, Computer Science, ...

Practicals and assignments in PostGIS, QGIS, SAGA, ...

Postgraduate

BSc (Hons) Geoinformatics, BSc (Hons) Computer Science

Spatial databases: practicals and assignments in PostGIS

Internet GIS: practicals and assignments in OpenLayers, GeoServer...

Education and training



CONTINUING EDUCATION
UNIVERSITY OF PRETORIA

Continued Education at UP (CE at UP)

Short courses, CPD points for registered professionals

Introduction to Quantum GIS

Spatial databases with PostGIS

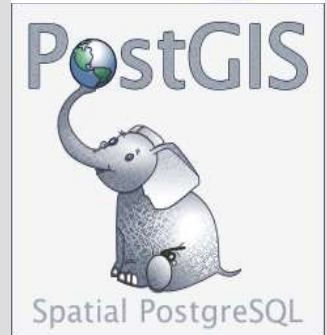
The Basics of GIS with QGIS



NFP Alumni Course in Namibia, Windhoek, Oct/Nov 2013

With ITC and Polytechnic of Namibia

*The use of social media, crowdsourcing and
webmapping to enable spatial web presence for the
private sector in Southern Africa*



Open Geospatial Laboratory of Northeast Institute of Geography and Agroecology, Chinese Academy of Science

OSGeo中国中心实验室, 关注开源GIS, 开放地理空间数据

用户名

.....

登录

☒ 记住我 忘记密码



开放地理空间实验室

Open Geospatial Laboratory of IGA



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文档 软件应用 地理数据 编程与开发 教育培训 资源下载 成果

热门搜索: 遥感 GIS Python 软件 编程 开源 GPS 开源GIS Linux 地图 科研 OGR GDAL 遥感监测

输入关键字

搜索



软件应用

>> 更多

- > ArcGIS 10.2.2 For Desktop 安装成功
- > QGIS软件简介及功能介绍
- > MapServer 6.x中文教程服务器配置调整
- > 开源地理CMS介绍: Geomajas
- > MapServer 6.x中文教程发布
- > ArcGIS 10.2.1桌面版的新特性介绍

使用SRTM数据制作丝绸之路地形图

最近更新

- 教育培训,编程与开发 | Python与开源GIS: 访问数据集...
- 新闻 | “开放地理空间实验室”成功加入ICA-OSGeo实验...
- 地理数据 | 2011年孢子沿微波辐射数据集
- 编程与开发 | 分别使用wxPython与PyQt显示Mapnik的...
- 教育培训,编程与开发 | Python与开源GIS: 波段数据类型
- 教育培训,编程与开发 | Python与开源GIS: 使用GDAL...
- 教育培训,编程与开发 | Python与开源GIS: 读取GeoTI...
- 资源下载 | 软件下载: 地形图与坐标处理工具集_V1.0.1
- 编程与开发 | 开源地理数据处理软件包GDAL简介
- 文档 | OGC 与OGC标准

教育培训

>> 更多

- Python与开源GIS: 访问数据集的数据
- Python与开源GIS: 波段数据类型
- Python与开源GIS: 使用GDAL获取栅格数据波段信息
- Python与开源GIS: 读取GeoTIF文件信息
- MapServer 6.x中文教程发布
- 地图多元分析的概念与方法

最多关注

本周

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- > 编程与开发 (38)
- > 资源下载 (4)

Thanks to Bu Kun & colleagues

Fudan University, Shanghai, China

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Lab News

[当前位置](#) / [Home](#) / [Lab News](#) / [Art](#)

OpenSource GIS Summer School

©2013-12-11 08:52:22 osstat2013lab Lab News 原创 ★36 ♥收藏

OpenSource GIS Summer School will be held in Wuhan University in 2014. The maximum number for the OpenSource GIS course will be a maximum of 35. Some initial information is at

<http://www.lmars.whu.edu.cn/isprscom6/summercamp.html>

[« 上一篇文章](#)[下一篇文章 »](#)

您可能也喜欢



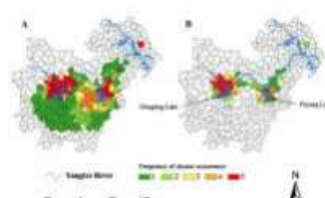
Dr.Zhang was invi...



A new paper was...



Dr. Zhang joined...



New paper was pu...

我要评论

社交帐号登录: 微博 QQ 人人 豆瓣 [更多»](#)



Zhijie Zhang
Room 443, Building 8
Dept. of Epidemiology and
Biostatistics
School of Public Health
Fudan University
Shanghai, China
Tel.: +86-21-54237410
Email: epistat@gmail.com

Thanks to Zhijie Zhang & colleagues

University of Melbourne, Australia

The screenshot shows the website for the Open Source Geospatial Laboratory at the University of Melbourne. The header includes navigation links for 'University Home', 'Support the Campaign', 'Current Students', 'Staff', 'Alumni', 'Library', 'Contact & Maps', and a search bar. A secondary navigation bar lists 'STUDY', 'RESEARCH', 'ENGAGE', and 'ABOUT US'. The main banner features the University of Melbourne crest and the text 'Faculty of Architecture, Building and Planning' and 'Open Source Geospatial Laboratory'. Below this, the OSGeo logo is displayed with the tagline 'Your Open Source Compass'. The central text block, titled 'ICA-OSGeo laboratory at University of Melbourne', describes the lab as a joint initiative of the International Cartographic Association (ICA) and the Open Source Geospatial Foundation (OSGeo), noting it is part of a global network of 22 labs. A quote from Professor Tom Kvan, Dean of the Faculty of Architecture, Building and Planning, is featured in a light blue box. The 'Vision Statement' section states the lab's goal to promote access and use of geospatial data for evidence-based research. A sidebar on the right contains a list of links: 'About Us', 'Research & Innovation', 'Student Information', 'Community', 'Staff Homepage', and 'News & Events'. Below this list are three prominent buttons: 'Melbourne School of Design Graduate Degrees', 'Bachelor of Environments Undergraduate Degrees', and 'ABP Intranet Staff Homepage'.

University Home Support the Campaign Current Students Staff Alumni Library Contact & Maps Search

Browse the University **STUDY** **RESEARCH** **ENGAGE** **ABOUT US**

 THE UNIVERSITY OF MELBOURNE

Faculty of Architecture, Building and Planning

Open Source Geospatial Laboratory

 **OSGeo**
Your Open Source Compass

ICA-OSGeo laboratory at University of Melbourne

The University of Melbourne is home to Australia's first Open Source Geospatial Laboratory. The international open source geospatial laboratory is a joint initiative of the International Cartographic Association (ICA) and the Open Source Geospatial Foundation (OSGeo). This Australian facility will be part of a global network of open geospatial research labs known as **ICA-OSGeo labs**. Currently there are 22 ICA-OSGeo labs operating **globally**.

"The University of Melbourne is one of the top research universities in the world and has been a pioneer in Australian geospatial science research. We are delighted to collaborate with the ICA and OSGeo to create this opportunity for our students and researchers, which will encourage open geospatial teaching and related research in other universities"

- Professor Tom Kvan, Dean of the Faculty of Architecture, Building and Planning.

Vision Statement

The ICA-OSGeo lab at the University of Melbourne will promote access and use of geospatial data for evidence-based research and decision-making. This will be achieved by the provision and sharing of data and tools supporting urban issues, with a capacity for extended collaboration across multiple disciplines.

Sustainable Cities

About Us

Research & Innovation

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Community

Staff Homepage

News & Events

Melbourne School of Design
Graduate Degrees

Bachelor of Environments
Undergraduate Degrees

ABP Intranet
Staff Homepage

Thanks to Chris Pettit & colleagues

University of Bucharest, Romania



OpenGIS
Proiect Educational

[home](#)

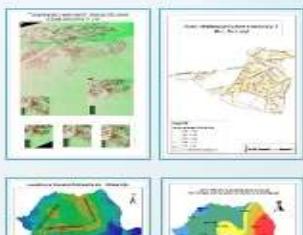
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- » [Confidentialitate](#)

Galerie



Ultimele articole

- » [ArcMap - Harta fizico-geografica](#)
- » [ArcMap - Utilizare Spatial Analyst](#)
- » [Suprafețe de nivelare în bazinul Valea lui Stan](#)
- » [ArcMap Orientarea versantilor](#)
- » [ArcGis domenii si subtipuri](#)

Forum

- | | |
|---|---|
|  Re:Layer WMS
IrinaB 11.7.2013 10:58 |  Re:Intrebare
stanoilugabi 23.5.2013 2:08 |
|  Re:module python
andreea.sascau 4.6.2013 15:41 |  Re:Intrebare
madalinar 20.5.2013 20:55 |
|  Re:module python
corneludose 4.6.2013 15:19 |  Re:Intrebare
radulan007 20.5.2013 20:47 |
|  module python
andreea.sascau 26.5.2013 21:14 |  Re:Intrebare
madalinar 20.5.2013 20:44 |

[Mai multe...](#)

Seminar "Soluții libere open source pentru prelucrarea și reprezentarea datelor geospațiale", 4-5 aprilie 2014 - Cluj Napoca

 [SHARE](#) 



**AFILIAT
ICA-OSGeo Labs**



ANUNȚURI

Cerc SIG

**Joi, 25 aprilie 2013, ora
19.45 (Sala IR).**

Thanks to Andreea Marin & colleagues

University of Newcastle UK

Open Source Geospatial Lab Newcastle



[About Us](#) [News & Events](#) [Research](#) [Publications](#) [Training and Education](#) [Resources](#) [People](#) [Other OSGEO labs](#)



Open Source Geospatial Lab Newcastle

Newcastle OSGEO lab is supported by



The Open Source Geospatial Research and Education Laboratory (osgeolab) is located at the [School of Civil Engineering and Geosciences](#) at [Newcastle University](#) in the North of England. The lab is run by the [Geospatial Engineering Research Group](#) but draws heavily on interactions with other research groups and partners within the University, nationally and internationally.

Our mission, as part of the OSGeo worldwide network, is to develop collaboration opportunities for academic, industrial, and government organizations in open source GIS software and data.

Find out about our Open Source Geo [Research and development projects](#), our [training and education programmes](#) in OSGEO and relevant [publications](#). Other resources and downloads that we release as Open Source can be found in the [resources](#) section.

OSGeo/ICA Memorandum of Understanding

Thanks to Phil James & colleagues

Katmandu University, Nepal



Open source Geospatial Lab KU

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Recent site activity

[Home](#)
edited by Shashish Maharjan(civil)

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Home

Welcome to Opensource Geospatial lab Kathmandu University

First Open Source Geospatial Laboratory in Nepal is located at Kathmandu University, Department of Civil and Geomatics Engineering. Our mission is to follow OSGeo/ICA Memorandum of Understanding by supporting development of open-source geospatial software technologies, training and expertise.

The lab is run by members of Civil and Geomatics Engineering.

Our goal is to provide training, education and to support development of open source geospatial software as well as free geospatial data. We work to create opportunities for academia, industry and government in open source GIS to support OSGeo Labs mission "Making geospatial education and opportunities accessible to all".

Find more on [OSGeo Labs](#) mission and resources.



Tasks & Actions

Action items



Calendar

Important dates



Recent Updates

Site activity feed



Tutorials

Lab assignments, Manuals

Thanks to Shashish Maharjan & colleagues

Stuttgart University of Applied Sciences, Germany

Hochschule für Technik
Stuttgart

deutsch | english

Hochschule

Studienbereiche

Architektur und
Gestaltung
Bauingenieurwesen
Bauphysik
Informatik
Mathematik
Vermessung
Wirtschaft

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Mitarbeiter | Externe

Bachelor-Studiengang
Informationslogistik

Bachelor-Studiengang
Vermessung und
Geoinformatik

Master-Studiengang
Photogrammetry and
Geoinformatics

Beschreibung /
Description

Einrichtungen und
Labore

Geodätisches
Messlabor

Labor für
Geodätische
Datenverarbeitung

Labor für
Geoinformatik

Labor für
Ingenieurmesstechnik

HFT ICA-OSGeo-
Lab

Labor für
Interpretation und
Messung
bildgebender
Sensoren (LIMES)

Facilities and Laboratories

HFT ICA-OSGeo-Lab

Labor für interoperable, quelloffene Geoinformatikanwendungen, Open Data und Standards <<

Laborleiter:

Prof. Dr.-Ing. Franz-Josef Behr
Telefon +49 (0)711 8926 2609
Telefax +49 (0)711 8926 2556
franz-josef.behr@hft-stuttgart.de
Skype / Twitter: fjbehr

Laborbeschreibung

Das Labor untersucht und fördert die Nutzung quelloffener Geoinformatikanwendungen und frei verfügbarer Geodaten und ist konzipiert als flexible Ergänzung zu den Standard-GIS-Installationen in den Räumen des Rechenzentrums und der Fakultät. Es nutzt einen zentralen Server, auf dem die Softwarepakete sowie Arbeitsumgebungen für die studentische Ausbildung sowie Forschungsaufgaben eingerichtet werden. Für den Einsatz in studentischer Lehre und Praxis werden die vorhandenen PC-Räume des Informationszentrums als Arbeitsplätze genutzt.

Der Einsatz in der Lehre geschieht in folgenden Studiengängen und Modulen:

- Bachelor Vermessung und Geoinformatik >>
Module Informationstechnologien für raumbezogene Daten, Ausgewählte Kapitel der Geoinformatik, Integriertes GIS-Projekt sowie Abschlussarbeiten
- Bachelor Informationslogistik >>
Modellierung, Technisches Kommunikationsmanagement sowie Abschlussarbeiten
- Master Photogrammetry and Geoinformatics >>
Scientific Skills and Media Competence, Customisation, Internet GIS, Visualisation, Geodata: Capture, Sources and Standards sowie Abschlussarbeiten
- Master Vermessung >>
Masterarbeiten



akwGIS >>



Seite drucken

Thanks to Franz-Josef Behr and colleagues

University of Southampton Open Source Geospatial Laboratory



- established and coordinated by the **GeoData Institute**
- geospatial capabilities/contributors from multiple relevant disciplines across the University:
 - Computer Science, Engineering, Geography, Archaeology...
- academic research leads:
 - Open Data, Semantic Web, Risk Mapping (environmental, health, transport), census and population analysis/modelling...
- large number of funded research projects over a long period:
 - Semsorgrid4env (EU FP7)
 - Atlas of the Two Seas (EU Interreg)



University of Zagreb, Croatia



SVEUČILIŠTE U ZAGREBU
GEODETSKI FAKULTET
UNIVERSITY OF ZAGREB
FACULTY OF GEODESY



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English (en)

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Open Source Geospatial Lab at University of Zagreb, Faculty of Geodesy

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Open Source Geospatial Lab at University of Zagreb, Faculty of Geodesy

About Us

First Open Source Geospatial Laboratory in Croatia is located at University of Zagreb, Faculty of Geodesy. Our mission is to follow OSGeo/ICA Memorandum of Understanding by supporting development of open-source geospatial software technologies, training and expertise.

The lab is run by members of Institute for Geomatics and Institute for Cartography and Photogrammetry and is strongly connected with partners (see [Collaboration](#) and [People](#)).

Our goal is to provide training, education and to support development of open source geospatial software as well as free geospatial data. We work to create opportunities for academia, industry and government in open source GIS to support OSGeo Labs mission "Making geospatial education and opportunities accessible to all".

Find more on [OSGeo Labs](#) mission and resources.

OSGeo/ICA Memorandum of Understanding

The Open Source Geospatial Foundation (OSGeo) and the International Cartographic Association (ICA) have signed a [Memorandum of Understanding](#) for developing global open source GIS software and data collaborations for academic, industrial, and government organizations. The MoU aims to provide expertise and support for the establishment of Open Source Geospatial Laboratories and Research Centres across the world for development of open-source geospatial software technologies and training. Laboratories are being established in Asia, Europe, Africa, the Americas and Australasia which will act as nodes for future expansion of the [worldwide network](#).



Global Environment, Stakeholder's Profile and Corporate Governance in Geodesy



1st International Interdisciplinary Scientific Conference
October 3-5, 2014
University of Zagreb, Faculty of Geodesy

Upcoming events

-  **Sjednica Fakultetskog vijeća**
Tomorrow, 12:00
-  **Sjednica Fakultetskog vijeća**
Thursday, 11 September, 12:00

[Go to calendar...](#)

Thanks to Dražen, Miljenko and colleagues

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Faculty



Prof. Dr. Damir Medak



Prof. Dr. Miljenko Lapaine



Assist. Prof. Dubravko Gajski



Assist. Prof. Dražen Tutić



Dr. Ana Kuveždić Divjak



Dražen Odošić, MSc



Mario Miler, MSc

međunarodno savjetovanje
o kartografiji i
geoinformacijama

Tomorrow, 08:00
» Sunday, 12 October, 23:00

GEO students for future
Monday, 13 October, 09:00

**7. simpozij ovlaštenih
inženjera geodezije**
Friday, 24 October, 00:00
» Sunday, 26 October, 23:55

**MoLaS 2014 –
Technology Workshop
Mobile Laser Scanning**
Wednesday, 26 November,
13:00
» Thursday, 27 November,
13:00

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Calendar

October 2014						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
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27	28	29	30	31		

University of New Brunswick, Canada



Geodesy and Geomatics Engineering

University of New Brunswick, Fredericton, NB, Canada





Back to Emmanuel Stefanakis' page

Geo For All

Dr. Stefanakis' research team is proud to be part of **ICA-OSGeo Labs** by supporting the mission: "Making geospatial education and opportunities accessible to all." This page provides access to a list of resources combining the potential of e-learning tools and open source geospatial software to strengthen education and research in GIScience.

Teaching Resources

Title	Geospatial Web - Course Syllabus (2 courses)
Type	Course syllabus description in paper form.
Resources	Stefanakis, E., 2013. Introducing Geographers to Web Mapping and Geospatial Web . In the Proceedings of the Annual Canadian Institute of Geomatics Conference, Toronto, Canada.

Title	Map Mashups and Web Mapping Services (Lab Exercises)
Type	Lab Exercises (samples)
Resources	McGrath, H., and Stefanakis, E. 2013. Map Mashups and Web Mapping Services (Lab Exercises) . GGE, University of New Brunswick. Funded by UNB - TLP Fund.

GIS&T Applications

Title	"Troy is ours – How on earth could Clytaemnestra know so fast?"
Application URL	http://gaia.gge.unb.ca/troyisours
Resources	Tienaah, T., and Stefanakis, E., 2014. "Troy is ours – How on earth could Clytaemnestra know so fast?" . In the Proceedings of the 17th AGILE Conference on Geographic Information Science, Castellon, Spain. [pdf]

Title	Historical Maps of Grand Lake Meadows, New Brunswick, Canada
Application URL	http://gaia.gge.unb.ca/glm/en/index_en.html
Resources	McGrath, H., 2013 (MScE): Historical Maps of Grand Lake Meadows .

Title	Historical Maps of Fredericton, New Brunswick, Canada
Application URL	http://gaia.gge.unb.ca/wsp/maps/index.html

Thanks to Emmanuel Stefanakis & colleagues

IGAD, Nairobi, Kenya



ICPAC



IGAD CLIMATE PREDICTION AND APPLICATIONS CENTER

"Fostering Climate Prediction and Applications"

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ICPAC PRODUCTS AND BULLETIN

- 10 day Bulletin
- Monthly Bulletin
- Climate Watch
- Newsletter

STATUS OF THE CLIMATE

- WMO Update: Prepare for El Niño
- EL NIÑO/LA NIÑA UPDATE
- High Impact Weather
- El Nino Southern Oscillation Watch (EN)
- El Nino Southern Oscillation Watch (FR)
- Heavy Rainfall/ Flood Risk
- ITCZ/ITD
- SST Indices
- ITCZ/ITD

FORECAST



BACKGROUND

In 1989, twenty four countries in Eastern and Southern Africa established a Drought Monitoring Centre with its headquarters in Nairobi (the DMCN) and a sub centre in Harare (Drought Monitoring Centre Harare – DMCH) in response to the devastating weather related disasters. In October 2003, the Heads of State and Governments of the Intergovernmental Authority on Development (IGAD) held their 10th Summit in Kampala, Uganda, where DMCN was adopted as a specialized IGAD

Thanks Muyambi Fortunate & colleagues

UNMC , Malaysia

Malaysia Campus

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University of Nottingham, Malaysia > School of Geography > Research > Geospatial Science > OSGEO lab

School of Geography

Welcome

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Tropical Conservation Ecology

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People

OSGEO lab

The Open-Source Geospatial Research lab was established late 2011 following the MoU signed between International Cartographic Association (ICA) and OSGEO foundation. It was the first of its kind in Southeast Asia and is playing its active role in promoting the similar establishment in the region.

Activities

- Researches on development and deployment of open-source geospatial resources in various applications.
- Develop open-source geospatial material for education and training.
- Promote open-source geospatial technologies applications in Malaysia and the region.

Current projects

- Deployment of OSGEO tools in teaching and learning (on-going, School of Geography, UNMC)
- Remote sensing image understanding services on cloud-computing platform (on-going, MOE)
- Remote sensing data synergy for monitoring large-scale construction projects (on-going, MOSTI)
- Terra SAR-X for monitoring large-scale construction projects (on-going, DLR)
- Crowd-sourcing interactive quality data assessment (on-going, CFFRC)
- Unmanned Aerial Vehicle (UAV) intercropping mapping (on-going, CFFRC)
- Urban growth monitoring with multi-scale remote sensing approach (completed, Faculty of Science, UNMC)
- Multi-scale remote sensing disaster recovery monitoring (completed, GeoGRID, Japan)



Thanks to Tuong Thuy Vu and colleagues

Research topics & collaborators



Activities



■ R&D

■ Education & Training

■ Community Works

Remote Sensing Image Segmentation & Fusion, Crowd sourcing, Large-scale computing, Web processing services, Develop OSSEO solutions for various applications.

Develop training material and E-learning platform, Introduce and adopt OS GEO tools in education program.

Promote FOSS4G-Asia, OSSEO Malaysia chapter FOSS4G committee member, talks, forums, etc.

Current projects

- Disaster recovery monitoring
- Crowd-sourcing data quality assessment
- Unmanned Aerial Vehicle intercropping mapping system
- Remote sensing data fusion
- Remote sensing monitoring of large-scale construction projects

Contact:

Dr. Tuong-Thuy Vu
School of Geography
University of Nottingham,
Malaysia campus
tuongthuy.vu at
nottingham.edu.my

Open Source Geospatial Research and Education Laboratory

The NCSU OSGeo Research and Education Laboratory (NCSU OSGeoREL) is located at the [North Carolina State University, Center for Geospatial Analytics](#) in Raleigh, NC, USA. We are part of the worldwide network of ICA-OSGeo laboratories following the motto [Geo for All](#). As one of the founding laboratories we are the central node for North America.

Our mission is to develop collaboration opportunities for academic, industrial, and government organizations in free and open source GIS software and data.

Follow us on [Google+](#), [YouTube](#) and [GitHub](#).

Offered courses

Through our [GIST program](#) we offer interdisciplinary, graduate level courses on geospatial analysis and modeling. Students are taught the fundamentals and methods in a software independent way by using both open source and proprietary tools. Go to [courses](#) and find out more.

People

Faculty:

[Helena Mitasova](#), [Laura Tateosian](#), [Ross Meentemeyer](#) ([home page at FER](#))

Graduate students and visiting scholars:

[Anna Petrasova](#), [Vaclav Petras](#), [Emily Russ](#), [Brendan Harmon](#), [Keren Cepero](#), [Nathan Lyons](#), [Paul Paris](#)

Former graduate students and visiting scholars:

[Eric Hardin](#), [Katie Weaver](#), [Margherita di Leo](#), [Eva Stopkova](#)

If you want to become a member of NCSU OSGeoREL or you feel as a part of it and you are not listed here, please do not hesitate to [contact us](#).

Collaboration with OSGeo projects and research groups

Thanks to Helena Mitasova and colleagues

ICA-OSGeo OSGL at ETH Zurich

Home : **Team** : Training : Research : Cooperation : Contact

Welcome to ICA-OSGeo Open Source Laboratory at ETH Zurich

Quality open source training and software for Cartography and GIS



The Open Source Geospatial Laboratory (OSGL) at ETH Zurich is a joint initiative of the [International Cartographic Association \(ICA\)](#) and the [Open Source Geospatial Foundation \(OSGeo\)](#).

In September 2011, the International Cartographic Association (ICA) and the Open Source Geospatial Foundation (OSGeo)

signed a Memorandum of Understanding ([full text here](#)) with the aim of developing on a global basis collaboration opportunities for academia, industry and government organizations in open source GIS software and data.

The OSGL at ETH Zurich is actively implementing this memorandum with the vision to support the development of open-source geospatial software technologies, training and expertise. It also aims to provide support for increasing the number and quality of open source teaching and training materials for Cartography and GIS. As a proud member of the [ICA-OSGeo Network](#), the ETH Zurich OSGL is focusing on Education, Open Geodata and on Cartographic and Geospatial Research. Additionally we are participating in the the [ICA Commission on Open Source Geospatial Technologies](#) and through the [Institute of Cartography and Geoinformation](#) we are an associate member of the [Open Geospatial Consortium](#).



Acknowledgements

The ICA-OSGeo Open Source Geospatial Laboratory is kindly integrated in the [Institute of Cartography and Geoinformation](#).

Links

Thanks Ionut Iosifescu and colleagues

Laboratorio di Geomatica, Politecnico di Milano , Italy

Thanks to Maria and colleagues



Our aim is to establish over 10 labs to be established in Brazil by 2015

Firefox MundoGEO#Connect LatinAmerica 2013

mundogeoconnect.com/2013/grade/encontros-paralelos/webinar-ica-osgeo-18-de-junho/ Google

Evento Localização Hotéis Programação Prêmio Feira Imprensa Contato Apoios Português

MundoGEO
#connect
LatinAmerica 2013

Conferência e Feira de Geomática e Soluções Geoespaciais
18 a 20 de Junho de 2013
Centro de Convenções Frei Caneca - São Paulo (SP) - Brasil

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nas atividades

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na feira **GRÁTIS**

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Workshop ICA-OSGEO, 18 de Junho

A primeira reunião da rede ICA-OSGEO Labs no Brasil será realizada no dia 18 de junho no Centro de Convenções Frei Caneca, em São Paulo (SP). Os objetivos da rede ICA-OSGEO Labs são estabelecer oportunidades de pesquisa e treinamento em SIG Open Source, desenvolver uma plataforma mundial de aprendizagem e criar infraestrutura de ensino e pesquisa nos tópicos de dados e padrões abertos e software livre na área geoespacial.

Este projeto nasceu, em 2012, da iniciativa do comitê de Open Source da ICA (Associação Cartográfica Internacional) e da Fundação OSGeo. São hoje 24 laboratórios participantes em todo mundo, sendo a UFPR e a UNESP os primeiros parceiros envolvidos no Brasil.

Para esta reunião, são convidados Universidades, Instituições de Pesquisa e demais organizações e indivíduos envolvidos com o tema, e que tenham interesse em participar de diversas formas, seja estabelecendo outros nós da rede, colaborando com conteúdo ou participando dos treinamentos. No Brasil, há o interesse especial no ensino e pesquisa ligados a normas, padrões e software para Infraestruturas de Dados Espaciais locais, regionais e nacional.

Mediadoras: [Ariete Meneguette](#) e [Silvana Camboim](#)

Agenda

- 10h Abertura e apresentação da Rede ICA-OSGeo Labs
- 10h30 Experiências no uso e ensino de software livre em instituições brasileiras
- 11h INDE-BR Capacitação e Pesquisa na Infraestrutura Nacional de Dados Espaciais
- 11h30 Apresentação do Nó brasileiro da Rede ICA-OSGeo Labs




Aim 3 - Providing Global learning platform and training opportunities

Applications Geospatial Places 14:56
ELOGeo Repository - Mozilla Firefox
http://elogeo.nottingham.ac.uk/xmli
Most Visited Getting Started Latest Headlines
ELOGeo Repository

JISC ELOGeo
E-Learning for the Open Geospatial Community

Search ELOGeo
Advanced Search

Browse
All of the Repository
Categories & Collections
By Issue Date
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RSS 2.0
Atom

The ELOGeo Repository
Welcome to the digital repository of the **ELOGeo Project**. This is a digital service that collects, preserves, and distributes digital material about open geospatial data, software and standards, in order to facilitate the digital preservation and scholarly communication in the open geospatial community.
More information are also available on the project website at <http://elogeo.nottingham.ac.uk>.
Using the repository is free and doesn't need registration. We welcome your contributions to make this repository as rich as possible. To be able to contribute, you will need to register to the system. Once you have done so, you will be able to upload your materials to the repository. For more information, please read the [Learning Material Preparation Guidelines](#).

Categories in ELOGeo Repository
Select a category to browse its collections.

- Conference Series (5)
- Educational Series (1)
- Learning Materials (1)
- Use Cases (8)

Search ELOGeo
Enter some text in the box below

UNITED NATIONS | UNOOSA | UN-SPIDER
United Nations Platform for Space-based Information for Disaster Management and Emergency Response

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Home » About Us » Events » Hands-on workshop: Open Source GIS and WebMapping for UN staff 20 and 21 November 2012

Hands-on workshop: Open Source GIS and WebMapping for UN staff 20 and 21 November 2012

Time and Duration
Venue City: Vienna

Basic Information
Date: 20/11/2012 - 21/11/2012
Venue: Institute of GVienna University of Technology, eoinformation and Cartography
Venue Country: Austria
Event Organisers:
The Commission on Open Source Geospatial Technologies of the International Cartographic Association (ICA)
Co-organisers:
Vienna University of Technology, Institute of Geoinformation and Cartography.
The International Symposium on Service-Oriented Mapping (SOMAP 2012)
More Information Link:
<http://kartoweb.itc.nl/kobben/SOMAP-OSGEO-workshop/>
Language of event: English

Contact Us | Send Feedback



From 20 to 21 November 2012, the Commission on Open Source Geospatial Technologies of the International Cartographic Association (ICA) will be hosting a hands-on workshop on "Open Source, Open Standards, Open Data for Geospatial".

This event follows the Memorandum of Understanding (MoU) which the ICA signed in 2011, jointly with the Open Source Geospatial Foundation (OSGeo), with a view to develop global collaboration opportunities in the field of open-source GIS software and data for academia, industry and government organizations. This hands-on workshop will allow the participants to learn more about Open Source tools for GIS and mapping on the Web.

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CALENDAR

November

M	T	W	T	F	S	S
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

View full page calendar

UPCOMING

- United Nations International Expert Meeting on Crowdsourcing...
2012-12-03 - 2012-12-05
United Nations Office at Vienna (Vienna International Centre)
- The 5th conference on geoinformation technology for natural...
2013-10-09 - 2013-10-11

more

Free webinars



Open Geospatial Science & Applications

The ICA-OSGeo Lab Network and MundoGeo are now pleased to present the "Open Geospatial Science & Applications" webinar series.



March 6th, 2014

Australian Urban Research Infrastructure Network

The ICA-OSGeo Lab Network and MundoGEO are now pleased to inform the fifth webinar of the "Open Geospatial Science & Applications" webinar series on March 7th. The webinar will be open and free to all on first come register basis.



February 13th, 2014

NASA World Wind Virtual Globe Technology

The ICA-OSGeo Lab Network and MundoGEO are now pleased to inform the fourth webinar of the "Open Geospatial Science & Applications" webinar series on February 13rd. The webinars will be open and free to all on first come register basis.



December 10th, 2013

Free and Open Source Software for Geospatial Applications: A mature alternative in the geospatial technologies arena

This webinar will be on "Free and Open Source Software for Geospatial Applications (FOSS4G): A mature alternative in the geospatial technologies arena" by Rafael Moreno-Sanchez (University of Colorado - Denver) and Maria Antonia Brovelli (Politecnico di Milano - Campus Como). [Register](#)



British
Geological Survey

November 7th, 2013

Opengeoscience: meeting the UK's geospatial data requirements in geosciences



NASA WORLD WIND Europa Challenge

[Home](#)[Criteria](#)[Organizers & Scientific Committee](#)[Challenge 2014](#)[Guidance](#)[Sponsors](#)[2013 Winners](#)[Forum](#)

Solutions For A Sustainable World!

Submit your proposal before 2014 May 31!

Why the Europa Challenge?

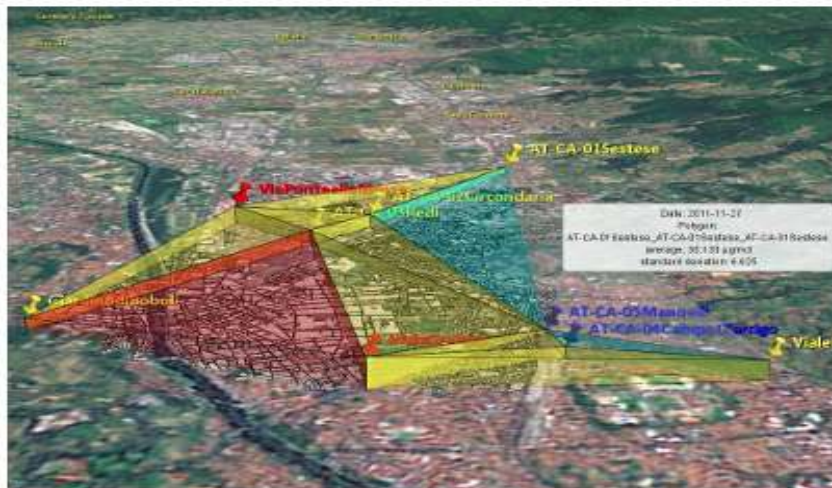
The Europa Challenge provides the opportunity for Europe's *best and brightest* to deliver sustainable solutions to the European community. And do this in ways that serve local, regional, national or international interests, while also advancing the career opportunities for those who accept the challenge. This is an international challenge open to all on our home planet. See the [2013 Winners](#), China had one of the top teams last year.

The top three teams will take home the crystal Europa Challenge bull! And a few hundred Euros!



Example of an excellent Initiative led by Prof. Maria Brovelli and colleagues

<http://eurochallenge.com.polimi.it>

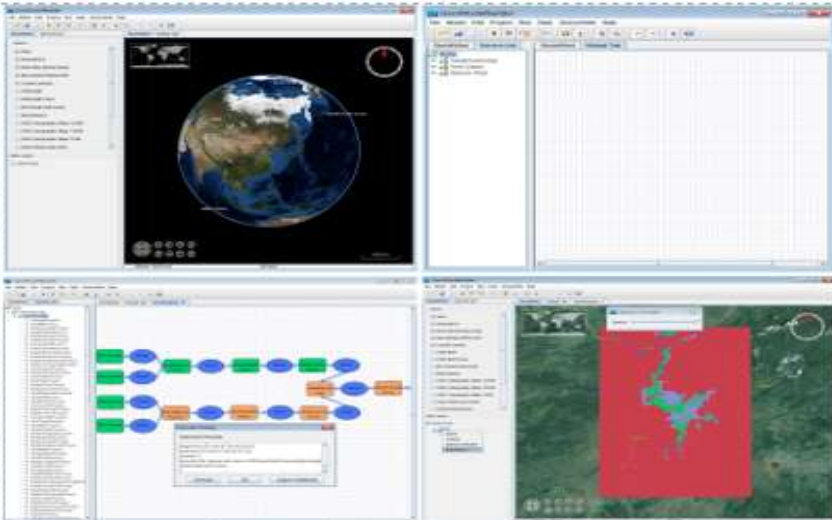


Air-Quality Data 3D Visualization

www.cirgeo.unipd.it/nasaww

Show a bird's-eye 3D view of air-quality data (PM10) acquired at time intervals from multiple sensors to **reveal air-quality dynamics over space and time**.

Sensors are connected with a Triangular Irregular Network (TIN) to cover the area of interest. Data is represented geometrically and colorized to easily recognize high-to-low values. Areas affected by a potential risk for health are quickly discernible. Users can adjust data-acquisition times for dynamic updating.



Environmental Monitoring With GeoJModelBuilder

www.sourceforge.net/projects/geopw

GeoJModelBuilder couples geo-processing Web services and Sensor Web services to support geo-processing modeling and environmental monitoring. The main goal of GeoJModelBuilder is to bring an easy-to-use tool to the geo-scientific community.

The tool allows a user to drag and drop various geospatial services to **visually generate workflows and then to interact with those workflows in a virtual globe environment**. It also allows users to audit trails of workflow executions, check the provenance of data products and support scientific reproducibility.



Urban Traffic Visual Analytics Simulator

www.interactivesystem.collaborate.org

The goal is to develop a highly interactive visual analytics system that helps urban planners, decision makers and traffic analysts simulate the urban scenario related to the urban viability. **Users interact directly via the 3D context**. This ensures intuitive understanding and easy adjustment to any simulated scenario.

The user interacts with the 3D environment through graphical metaphors that considerably reduce the time needed to set the

Example from USA

QGIS Academy

The Academy does not represent the official QGIS project

The image features a topographic map of Chugach State Park as a background. The map shows contour lines, trails, and geographical features like 'Chugiak', 'PETERSON VALLEY TRAIL', and 'CHUGACH STATE PARK'. In the top left corner, there is a green circular logo with a white stylized 'Q' and an arrow pointing upwards and to the right, representing the QGIS logo. Overlaid on the map is the text 'QGIS 2.4 Chugiak has been released!' in a white, sans-serif font.

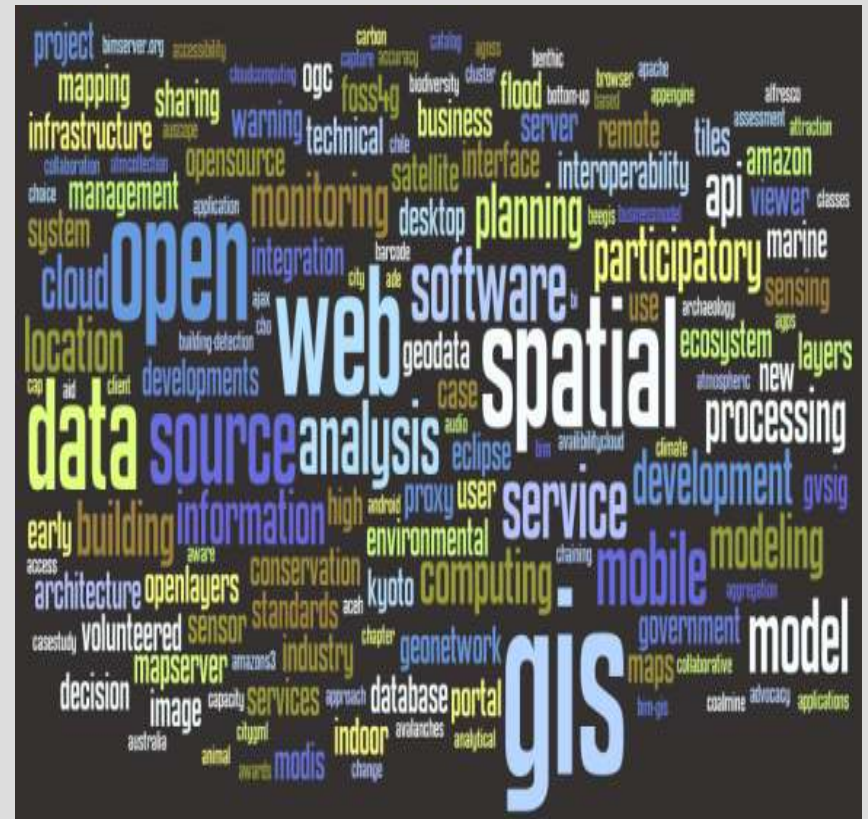
QGIS 2.4 Chugiak has been released!

Educating 21st century geospatial
technology workers

Phillip Davis| Kurt Menke| John
Van Hosen |Richard Smith

Moving beyond single proprietary curriculum

- ♦ 95% of US-based colleges use a single vendor's software
- ♦ Only 5% US-based colleges report using FOSS4G
- ♦ Shortchanging our graduates in terms of technology skills and abilities
- ♦ US Dept of Labor Competency Model recognizes value of open source knowledge & skills



The QGIS academy

- ◆ First national attempt at a completely open-based GIS curriculum
- ◆ Curriculum infrastructure for academics and trainers
- ◆ Complete course packs aligned with national standard (GTCM)
- ◆ Contains theory, lecture, labs, data and videos



Goals of the QGIS academy

- ◆ Provide educational resources infrastructure for educators and trainers
- ◆ Promote the adoption of open source for undergraduate programs
- ◆ Prepare graduates for lifelong learning skills
- ◆ Increase the use of open source tools in college GIS programs



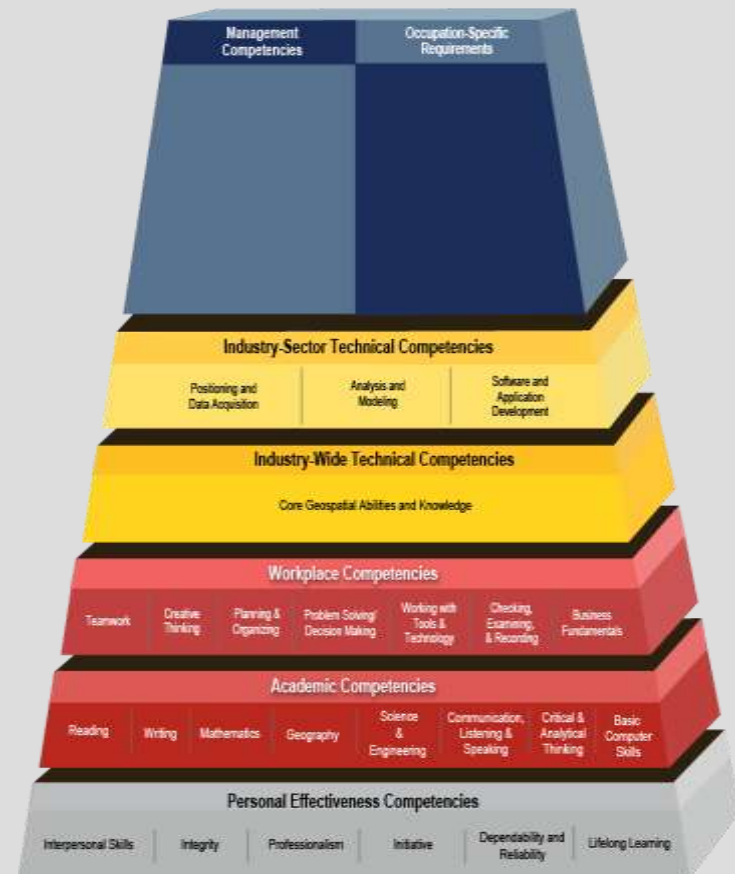
Targeted audience for QGIS academy

- ♦ Secondary school educators and students
- ♦ Two and four year college educators and students
- ♦ Students in need of GIS skills
- ♦ Workers seeking to broaden technology skills
- ♦ Anyone desiring QGIS and open source knowledge and skills



Geospatial Technology Competency model (GTCM)

- ♦ US Dept. of Labor national clearinghouse model
- ♦ Published in 2010, revised in 2015
- ♦ Describes the complete set of knowledge, skills, and abilities required by industry workers
- ♦ Built on hierarchical tiered model of knowledge
- ♦ Promotes use of open source technology



Qgis academy curriculum

Consist of 5 Core Courses:

- ◆ GST 101
Introduction GIS
- ◆ GST 102 Spatial
Analysis
- ◆ GST 103 Data
Management
- ◆ GST 104
Cartography
- ◆ GST 105 Remote
Sensing



Results of qgis academy beta

- ♦ Beta launched June 2014
- ♦ 2,325 students enrolled (as of 8/6/2014) in beta
- ♦ Every continent has participants (except Antarctica)
- ♦ Five complete course packages
- ♦ 100+ QGIS how-to videos



Another example of Openness in Geoeducation

Home - GEOTHNK :: Sem... x

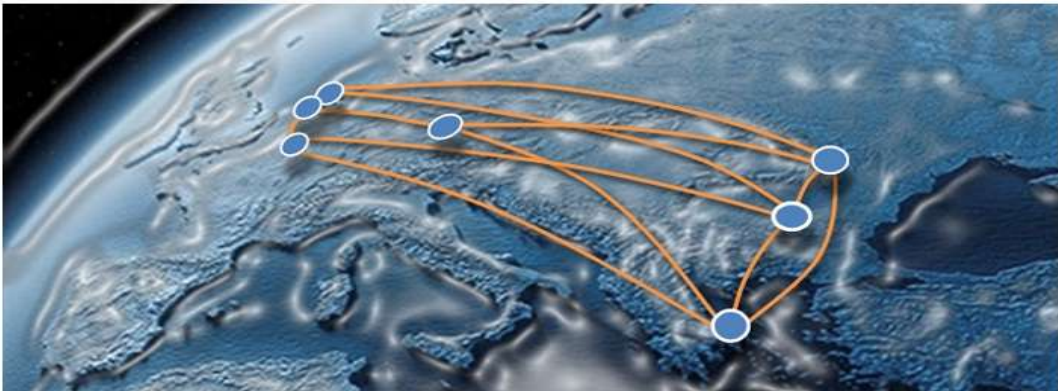
www.geothnk.eu/index.php/en/

☆



Geothnk Community   

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SEMANTIC PATHWAYS FOR BUILDING A SPATIALLY-THINKING SOCIETY

GEOTHNK brings together many different organisations who have decided to join forces in a European effort to propose a scientifically grounded, technologically sustainable, and organisationally disruptive framework to meet the challenge for the development of

[READ MORE +](#)  

TARGET GROUPS

Science Educators Students Adult Learners Teachers



For **science center educators**, GEOTHNK provides open interfacing solutions to easily prepare learning pathways for their communities, construct their virtual didactic counterparts, and share them with teachers and researchers in the field.

GEOTHNK
LATEST NEWS

9th National Conference of Bulgarian Ast...

16-05-2014

May 16-18, 2014, Shumen, Bulgaria
The 9th National Conference of Bulgarian Astronomical Society (BAS) organized by BAS http://nao-rozhen.org/news/pdf_documents/...

[Read more](#)

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@GEOTHNK



About 2 months ago From Facebook
One of the many aspects of spatial thinking
<http://t.co/A3pTbPniuV>
<http://t.co/6XOaTDV4Zi>



About 3 months ago From Facebook
17th AGILE Conference on Geographic Information Science starting tomorrow.
Visit... <http://t.co/q7Skied9b7>

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GEOTHNK Target audience

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STUDENTS



For **students**, GEOTHNK offers the opportunity to be involved in innovative learning activities in pedagogically structured and scaffolded learning spaces that are extended with social communication facilities.

SCIENCE CENTER EDUCATORS



For **science center educators**, GEOTHNK provides open interfacing solutions to easily prepare learning pathways for their communities, construct their virtual didactic counterparts, and share them with teachers and researchers in the field.

TEACHERS



For **teachers, teachers trainers** and **university students**, GEOTHNK offers pedagogical "plug, share, and play" through a Web-based interface and a community framework to disseminate best practices and find mutual support. A modular approach and innovative pathways that crosscut the boundaries between formal and informal learning settings promote a seamless incorporation of numerous open educational resources into the classroom.

ADULT LEARNERS



For **adult learners** (e.g. science centres visitors), GEOTHNK offers the opportunity to be involved in innovative learning activities that builds on the strengths of both formal and informal learning that are extended with social communication facilities.



GEOTHINK Community

Parent/Child
Communities

Share this

The aim of this Community is to support educators to develop innovative pathways that will demonstrate learners innovative ways to associate geospatial concepts with concepts from other domains (e.g. Environment, Earth Sciences, Social Sciences, etc.) and infer and associate knowledge.

With the support of the Lifelong Learning Programme of the European Union Pr. no 543451-LLP-1-2013-1-GR-KA3-KA3MP

Tags

geospatial

geography

24 1 0 0

Resources

Search in the Community

Options



Search...



Share to the Community



Educational
Content



Learning
Pathways



Reasoning
Tool

Build your Community



GROUPS

There are no available groups.



ACTIVITIES

There is no content.



EVENTS

1

From Geospatial Thinking to Teaching...
2014.03.04

The Summer School is a course centred on the

ELOGeo – completed now working to move this to JORUM for long term continuity

The screenshot shows a Mozilla Firefox browser window displaying the ELOGeo Repository website. The browser's address bar shows the URL <http://elogeo.nottingham.ac.uk/xmlui>. The website has a dark blue header with the ELOGeo logo and the tagline "E-Learning for the Open Geospatial Community". A "Login" link is visible in the top right corner. Below the header, there is a navigation bar with links to "ELOGeo Home" and "ELOGeo Repository". The main content area is divided into several sections: "Search ELOGeo" with a search box and a "Go" button; "Browse" with links to "All of the Repository", "Categories & Collections", "By Issue Date", "Authors", "Titles", and "Subjects"; "My Account" with links to "Login" and "Register"; and "RSS Feeds" with links to "RSS 2.0" and "Atom". To the right of these sections, there is a "The ELOGeo Repository" section with a welcome message and a link to the project website. Below this is a "Categories in ELOGeo Repository" section with a list of categories: "Conference Series [5]", "Educational Series [16]", "Learning Materials [13]", and "Use Cases [8]". At the bottom of the page, there is a "Search ELOGeo" section with a search box and a "Go" button. The footer contains logos for CC BY-SA, the University of Nottingham, CGS, Mimas, OSGeo, DSPACE, and @MIRE, along with links to "Contact Us" and "Send Feedback".

Applications Geospatial Places 14:56
ELOGeo Repository - Mozilla Firefox
File Edit View History Bookmarks Tools Help
<http://elogeo.nottingham.ac.uk/xmlui>
Most Visited Getting Started Latest Headlines
ELOGeo Repository
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The ELOGeo Repository
Welcome to the digital repository of the [ELOGeo Project](#). This is a digital service that collects, preserves, and distributes digital material about open geospatial data, software and standards, in order to facilitate the digital preservation and scholarly communication in the open geospatial community.
More information are also available on the project website at <http://elogeo.nottingham.ac.uk>.
Using the repository is free and doesn't need registration. We welcome your contributions to make this repository as rich as possible. To be able to contribute, you will need to register to the system. Once you have done so, you will be able to upload your materials to the repository. For more information, please read the [Learning Material Preparation Guidelines](#).
Categories in ELOGeo Repository
Select a category to browse its collections.
• [Conference Series](#) [5]
• [Educational Series](#) [16]
• [Learning Materials](#) [13]
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Enter some text in the box below to search in ELOGeo.
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Building an open source, open standards, open data framework for geoeeducation

Key advantages

- Scalable
- Interoperability
- Accelerate Innovation
- Low costs
- No proprietary lockin
- Benefits wider community
- contributes to building up Open Knowledge for the benefit of the whole society and for our future generations.



Represents the individual content creator on the World Wide Web

Thanks to all colleagues in the “Geo for All” initiative

