International Cartographic Association
Association Cartographique Internationale
ICA ACI

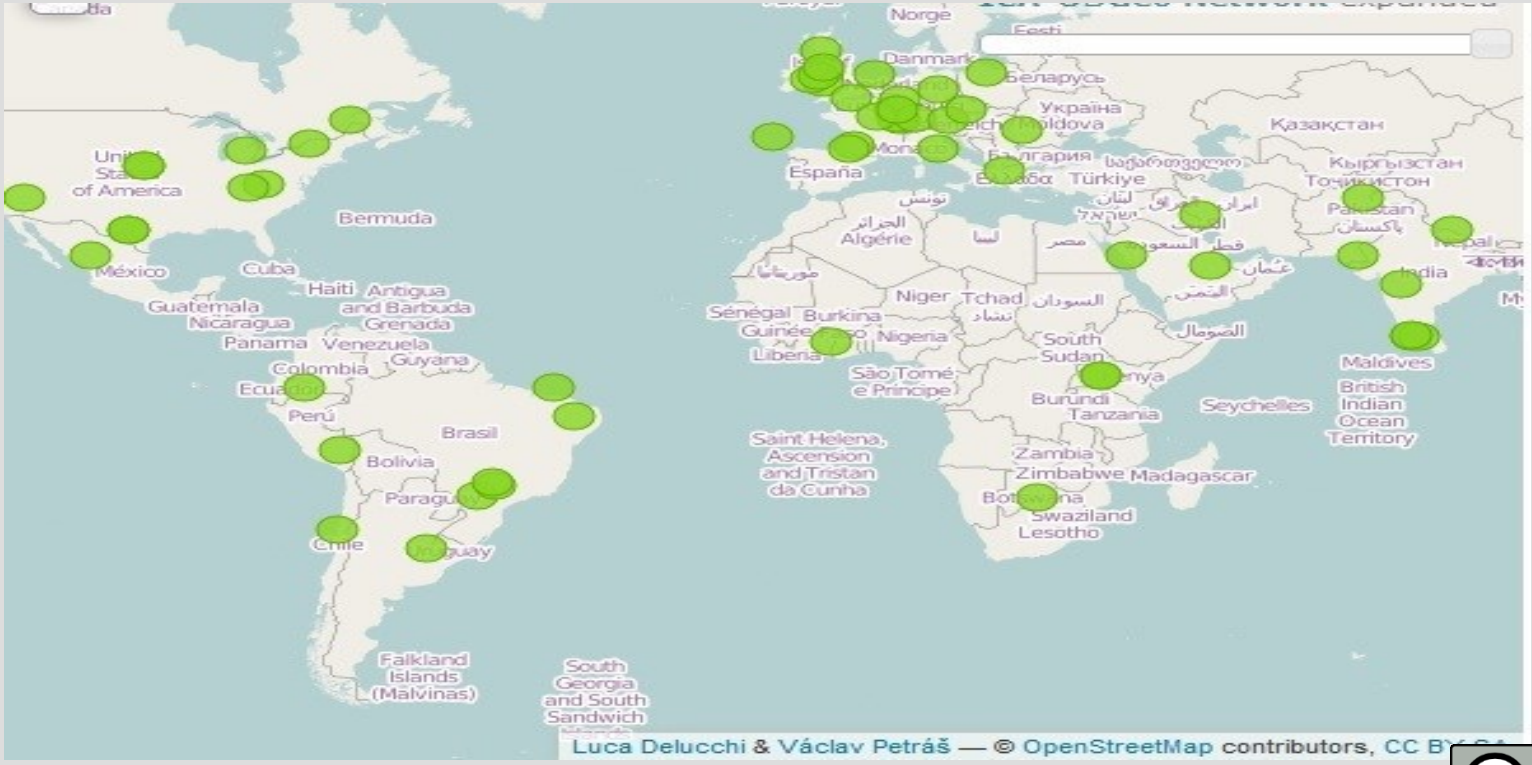
isprs
information from imagery

OSGeo
Your Open Source Compass

Geo for All

Openness in GeoEducation

Suchith Anand



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

cc BY SA

Open Nottingham
Knowledge without borders
www.nottingham.ac.uk/open
The University of Nottingham
UNITED KINGDOM · CHINA · MALAYSIA

Mission

Making Geospatial Science and education accessible to all

"Geo for All"

There are many dimensions to “Open”

- Open source software.
- Open data.
- Open standards.
- Open access to research publications.
- Open education resources

But fundamentally it is based on Open Principles

Why is Geoeducation important?

GLOBAL URBAN PROBLEMS: access to water, sanitation, traffic congestions, economic sustainability, citizens' health, impact on environment …

Kibera , Kenya

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

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

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

https://www.youtube.com/watch?v=orwN9K07XPo

gvSIG BATOVí

DIRECCIÓN NACIONAL DE TOPONIMIA

gvSIG association

Plan Ceibal

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

gvSIG BATOVí

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

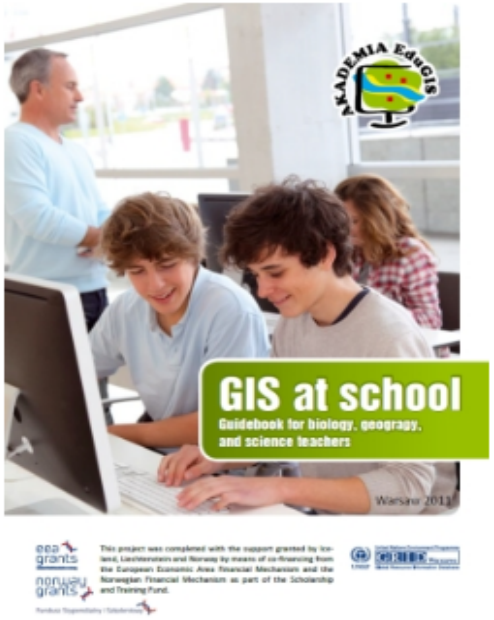
For teachers

- 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"



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:

- **you'll acknowledge the author and owner of the work**/material (condition of attribution - BY);
- **you'll use the work**/material only **for non-commercial purposes** (non-commercial condition - NC);
- **you won't modify, change or use parts of the work**/material (no derivatives condition - ND).

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Project implements: UNEP GRID Warszawa Global Resource Information Database
Project partners: MSCDN Høgskolen i Gjøvik
norway grants eea grants
Project implemented with support from Iceland, Liechtenstein and Norway through the EEA Financial Mechanism of the European Economic Area and Norwegian Financial Mechanism under the Scholarship and Training Fund

Thanks to Elżbieta Wołoszyńska-Wiśniewska and colleagues at UNEP-GRID), Warsaw

“Geo for All” started from very humble beginnings

Aim – Build research and teaching infrastructure worldwide

Problem – No initial funding!

Biggest Strength – amazing support from colleagues and students

June 2010 Open Source Geospatial Lab founding meeting at UoN

ICA is the world authoritative body for cartography and Geographic Information Science

ICA was founded on 9 June 1959, in Bern, Switzerland

ICA's research is driven by 28 Commissions

Reaching out to other communities key for exponential growth

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
ICA
ACI

isprs
information from imagery

OSGeo
Your Open Source Compass

OSGeo-ICA-ISPRS-International Labs Network

www.geoforall.org

OSGeo

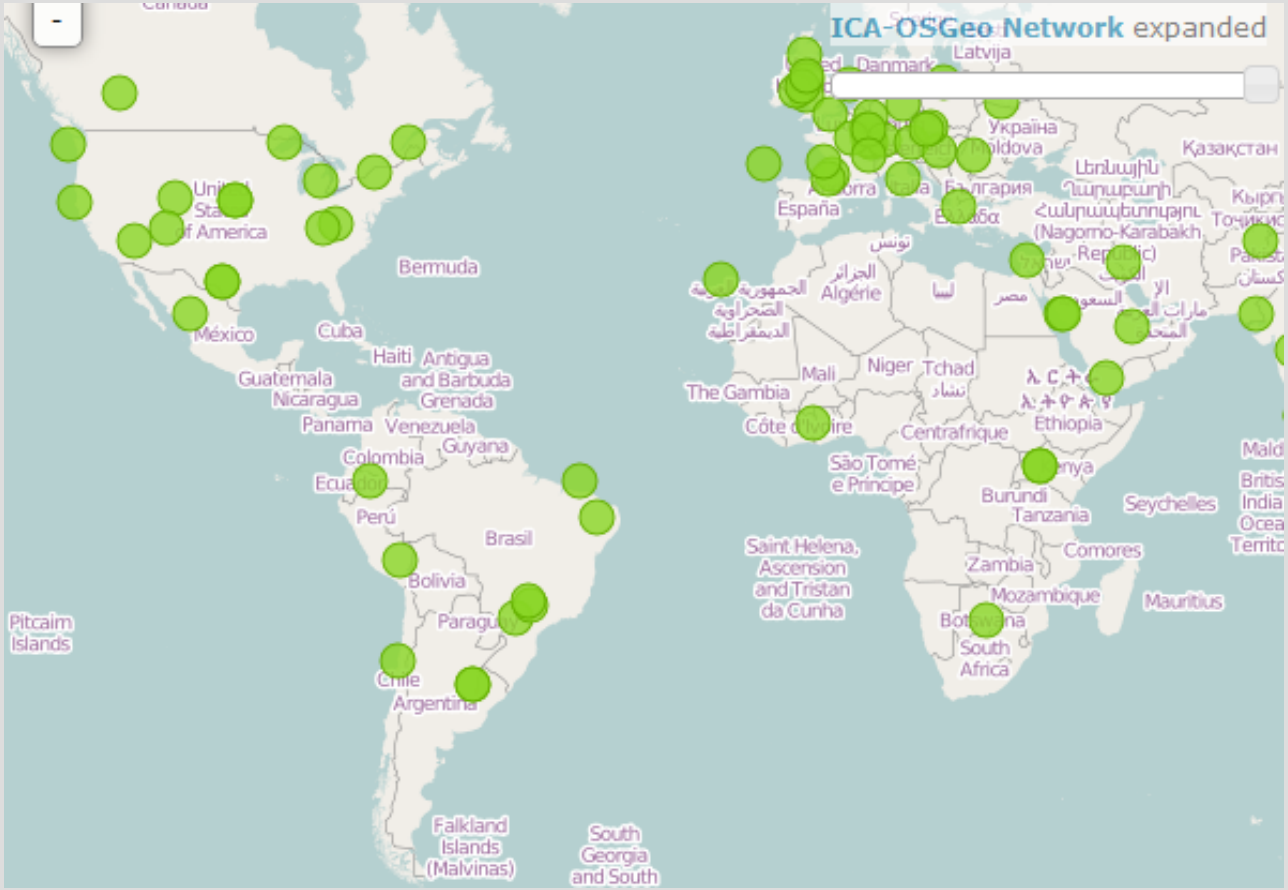
ICA

ACI

ICA-OSGeo MoU

isprs

Information from imagery

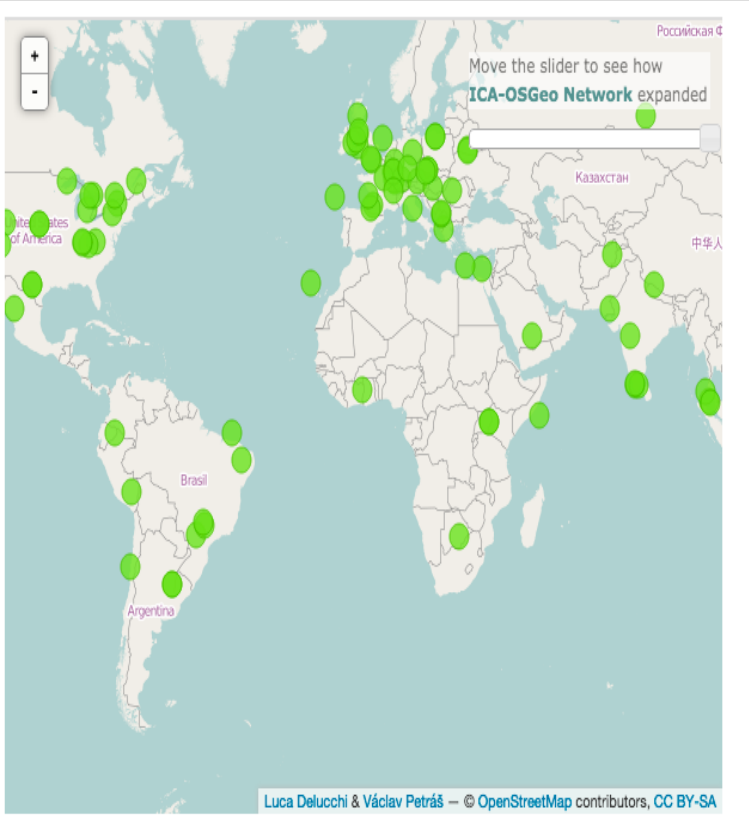


A Reason to Celebrate!

June 2015: We reached **100 labs** worldwide

Networking effects!

We need dedicated OSGeo labs in Portugal



102 labs worldwide as of 16th July, 2015

“Geo for All” Education Initiative

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

Will be establishing over 500 labs in universities worldwide by 2018

ICA-OSGeo MoU in Sep 2011

102 labs established worldwide as of today

North America – over 20 labs
Europe – over 40 labs
South America – 9 labs
Africa – 4 labs
Asia – 15 labs
Australia - 2 lab

International Cartographic Association
Association Cartographique Internationale

ICA ACI

isprs
information from imagery

OSGeo
Your Open Source Compass

- 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

OSGeo

ICA ACI

Who are we?

FOSS4G
NOTTINGHAM 2013
17 - 21 September
OSGeo
Geo For All
Met Office
Ordnance Survey
Sopra
Google
FOSS4G

FOSS4G
NOTTINGHAM 2013
17 - 21 September
OSGeo
Geo For All
Met Office
Ordnance Survey
Sopra
Google
LocationTech
ENVITIA

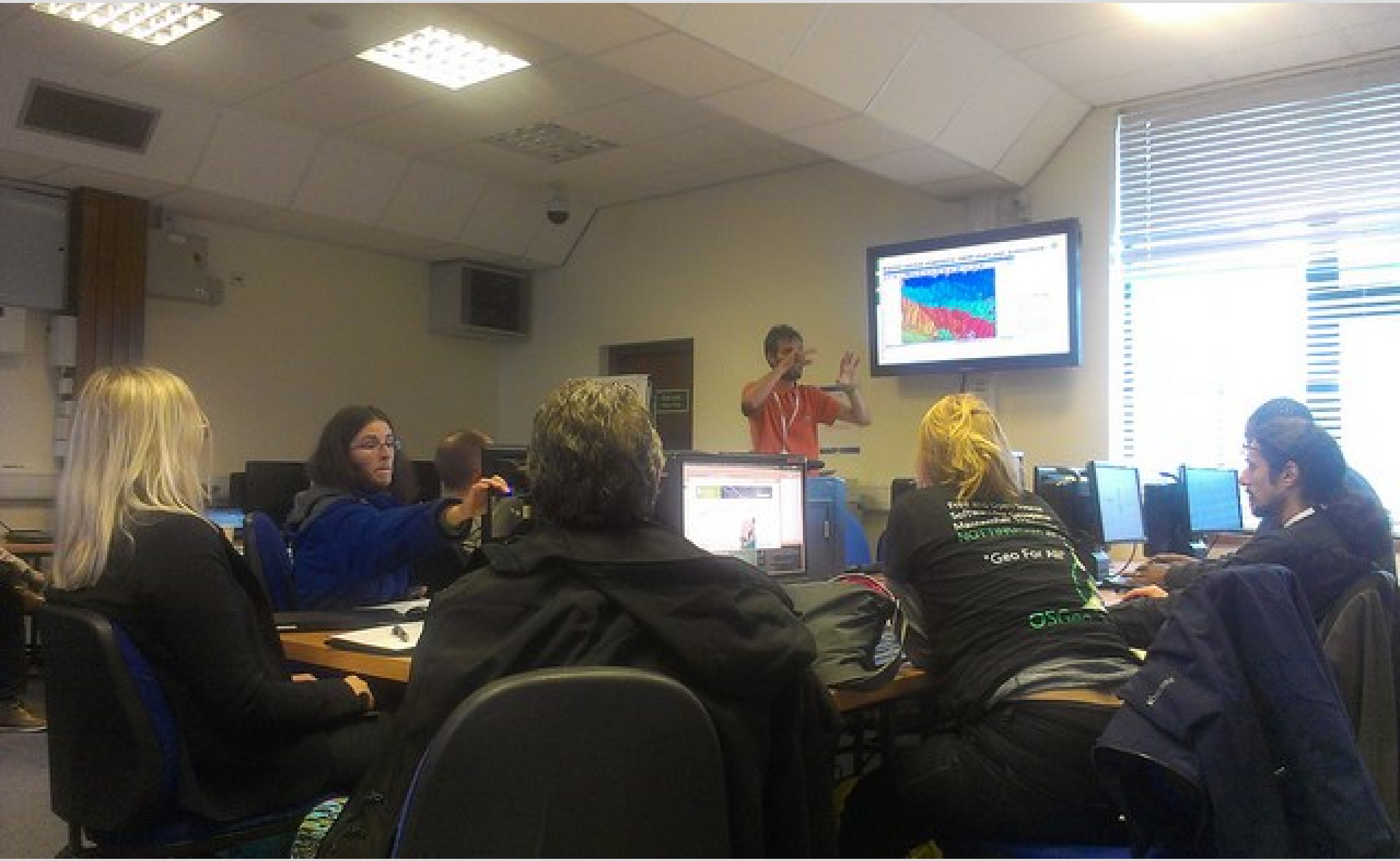
FOSS4G
NOTTINGHAM 2013
Geo For All

FOSS4G
OSGeo
Geo For All

And... we are great fun...

Conference Suite 2

It is all about learning and sharing



Open GIS Summer School in Girona

And empowering the next generation

We also love giving certificates

GeoForAll Overall Aims

1. Establishing research and teaching opportunities in ‘Open Geospatial Science’

2. Build global open access teaching and research infrastructure

3. Provide worldwide learning platforms and training opportunities

4. Establish collaborations between Academia, Schools, Government and Industry around Open Geospatial Science and Education

Open Geospatial Science should be integral for National Geoinformation Policy

Open Geospatial Science is key for innovation in GIS

Geospatial Standards (for ex. OGC spec.)

Open Data

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

OSGeo Live - Excellent resource for education

OSGeo Live

Home | Contents | Standards | Download | Contact Us | Sponsors

English | Español | Català | Français | Deutsch | Italiano | Polski | Ελληνικά | Русский | 中文 | 한국어 | 日本語

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

http://live.osgeo.org/en/index.html

Thanks to OSGeo Live team

Credits

Developers and Translators

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

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

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

sci·ence [sahy-uhns] Show IPA

noun

1. a branch of knowledge or study dealing with a body of facts or truths systematically arranged and showing the operation of general laws: *the mathematical sciences.*
2. systematic knowledge of the physical or material world gained through observation and experimentation.
3. any of the branches of natural or physical science.
4. systematized knowledge in general.
5. knowledge, as of facts or principles; knowledge gained by systematic study.

EXPAND

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

Geospatial Standards (for ex. OGC spec.)

OGC®
Open Geospatial Consortium, Inc.

Standards

- OpenGIS® Standards
  - Catalogue Service
  - CityGML
  - Coordinate Transformation
  - Filter Encoding
  - Geographic Objects
  - Geography Markup Language
  - Geospatial eXtensible Access Control Markup Language (GeoXACML)
  - GML in JPEG 2000
  - Grid Coverage Service
  - KML
  - Location Services (OpenLS)
  - Observations and Measurements
  - Sensor Model Language
  - Sensor Observation Service
  - Sensor Planning Service
  - Simple Features
  - Simple Features CORBA
  - Simple Features OLE/COM

Open Data

data.gov.uk BETA
Opening up government

OpenStreetMap
The Free Wiki World Map

Search Where am I?
Go
examples: 'Alkmaar', 'Regent Street, Cambridge', 'CB2 5AQ', or 'post offices near Lünen' more examples...

OpenStreetMap is a free worldwide map, created by people like you.

The data is free to download and use under its open license. Create a user account to improve the map.

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

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

Other Projects
- Public Geospatial Data
- Education and Curriculum

Project in incubation

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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

EU Digital Agenda

European Commission

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

Share

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

DATA PORTAL (BETA)

The Open Data Hub of the European Union

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

E-Mail Tweet Share +

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 word 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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Launch the Receipt

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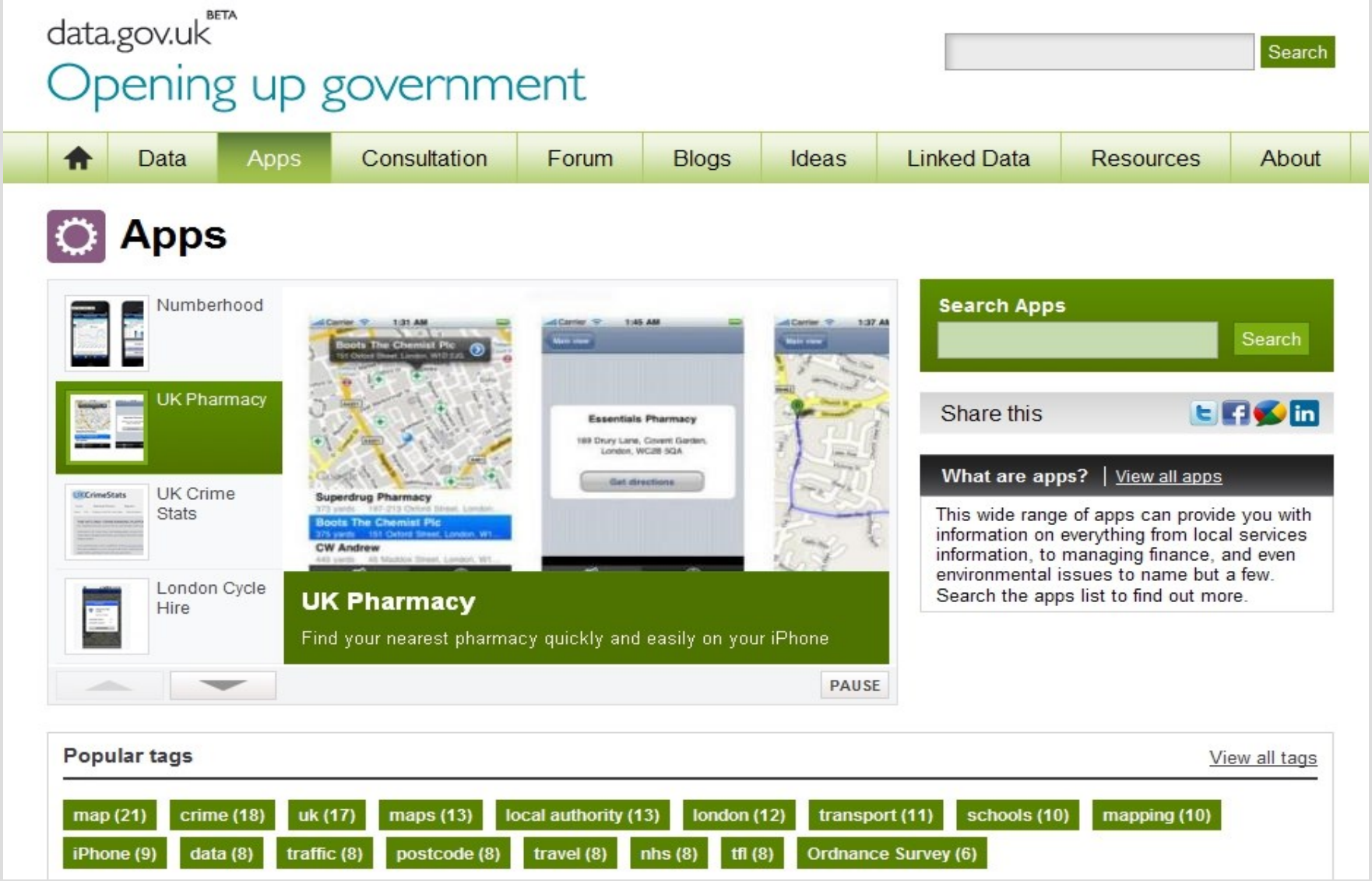
The White House Blog
Middle Class Task Force
Council of Economic Advisers
Council on Environmental Quality
Council on Women and Girls
Office of Management and Budget
Office of Public Engagement
Office of Science & Tech Policy
Office of Urban Affairs
Open Government
Faith and Neighborhood Partnerships

Data.gov Goes Global ...

Open Data – key for innovation and transparency



Aim

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 TELEDETECCIÓ Universitat de Girona

The University of Nottingham

Aalto University School of Science and Technology

irsty

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 infomation
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

Strategic Training Programs

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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

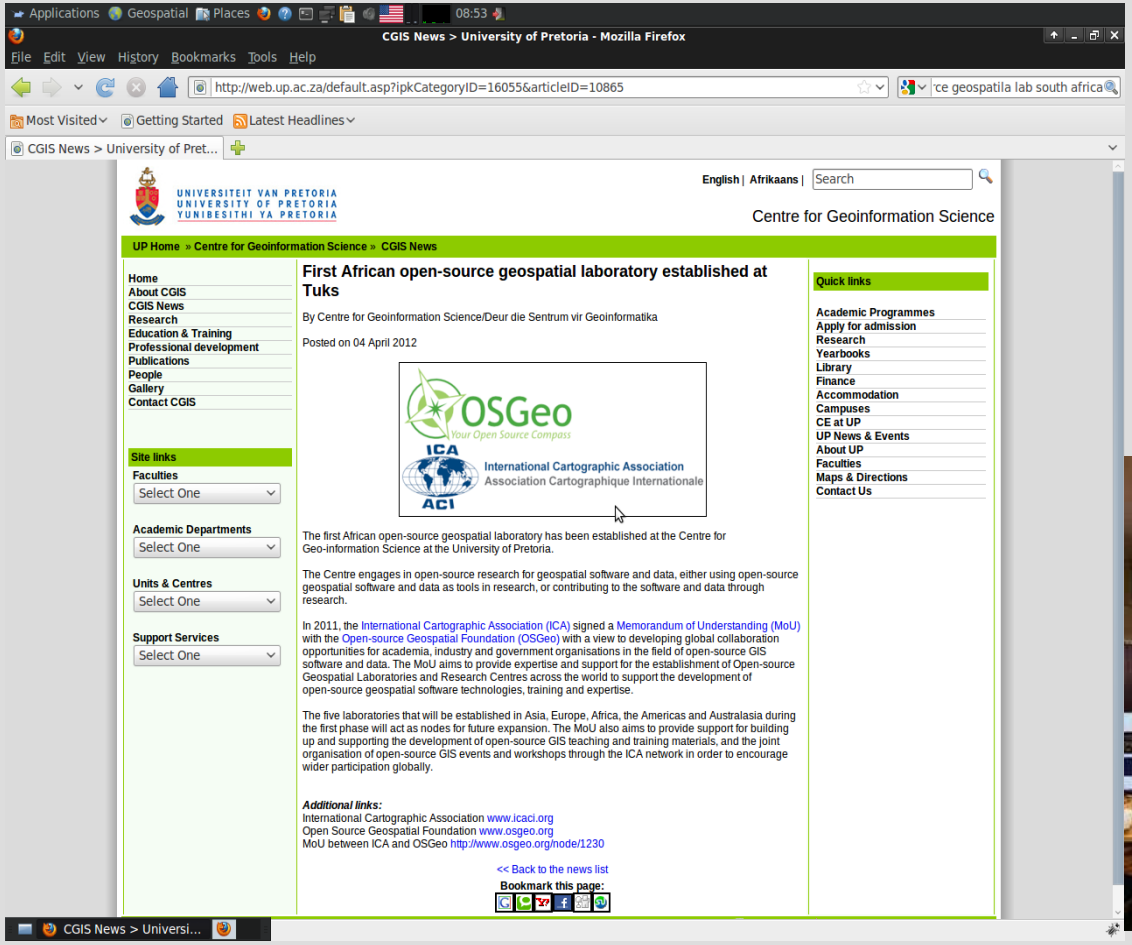
United Nations International Expert Meeting on Crowdsource...
2012-12-03 - 2012-12-05
United Nations Office at Vienna (Vienna International Centre)

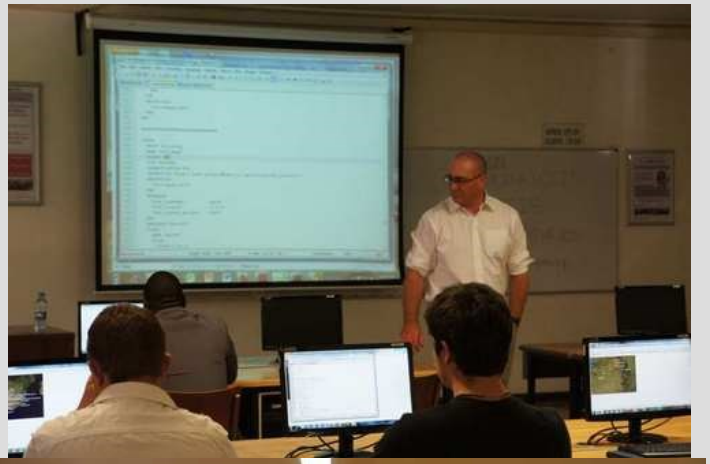
The 5th conference on geoinformation technology for natural...
2013-10-09 - 2013-10-11

more...

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

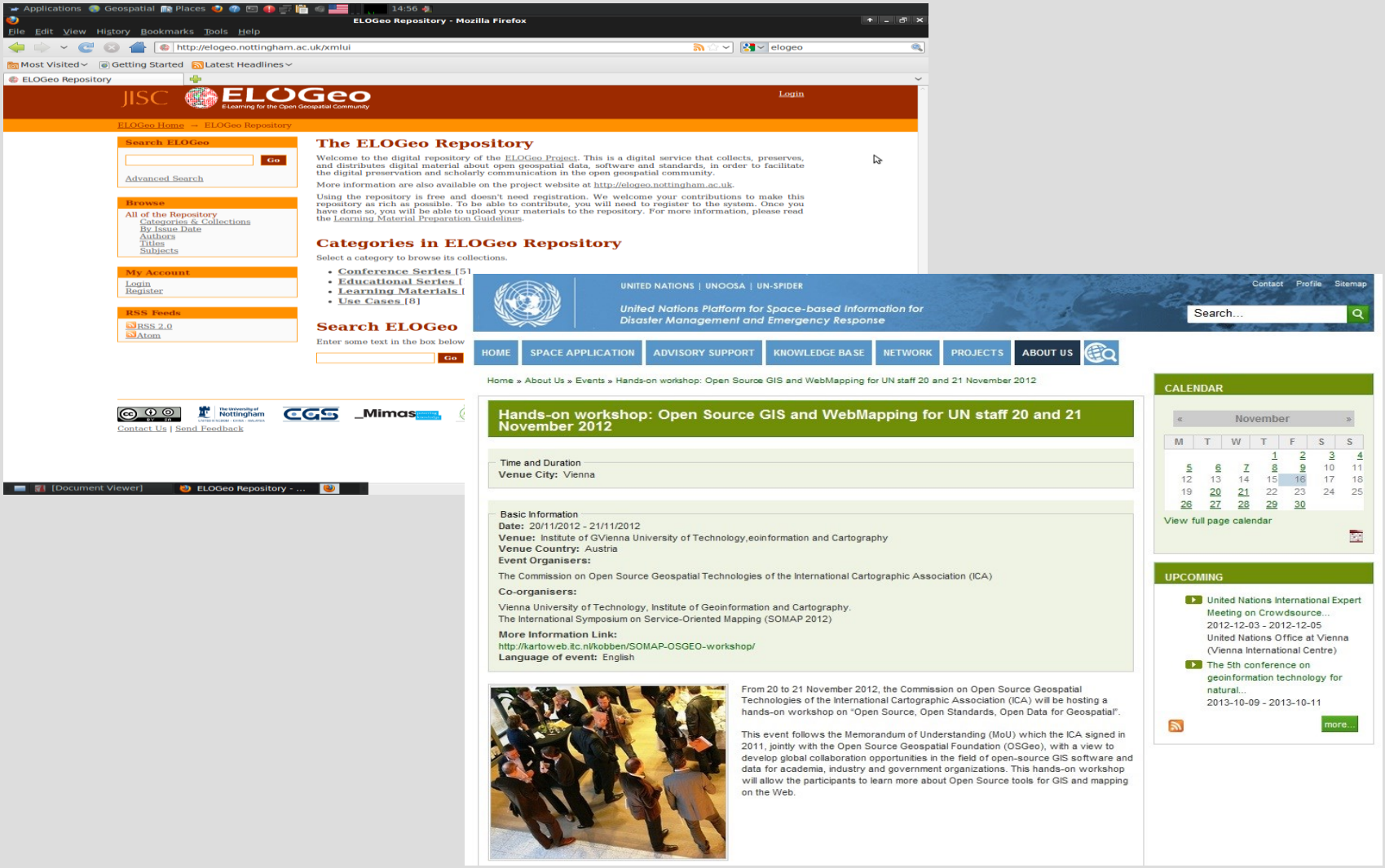
University of Pretoria, South Africa





Thanks to Serena Coetzee & colleagues

Aim - Providing Global learning platform and training opportunities



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**

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 you proposal before 2014 May 31!

Why the Europa Challenge?

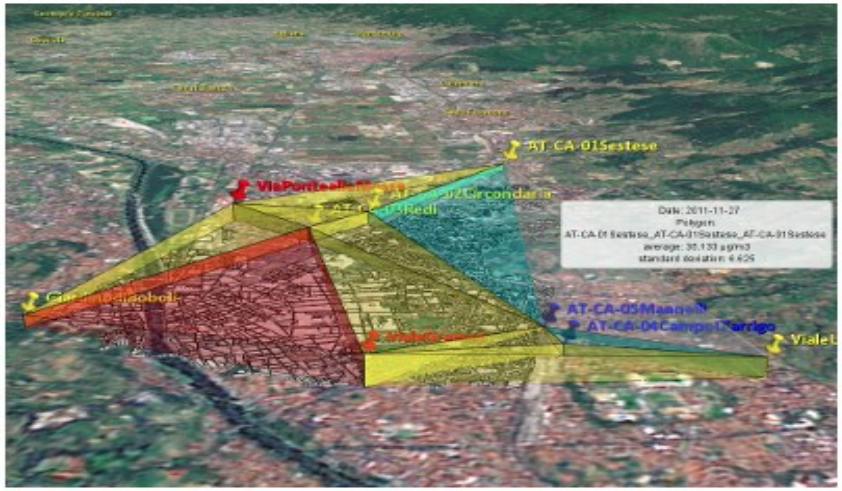
The Europa Challenge provides the opportunity for Europe's *best and brightest* to deliver sustainable solutions to the European community. And do this in ways that serve local, regional, national or international interests, while also advancing the career opportunities for those who accept the challenge. 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.como.polimi.it

2013 Winners

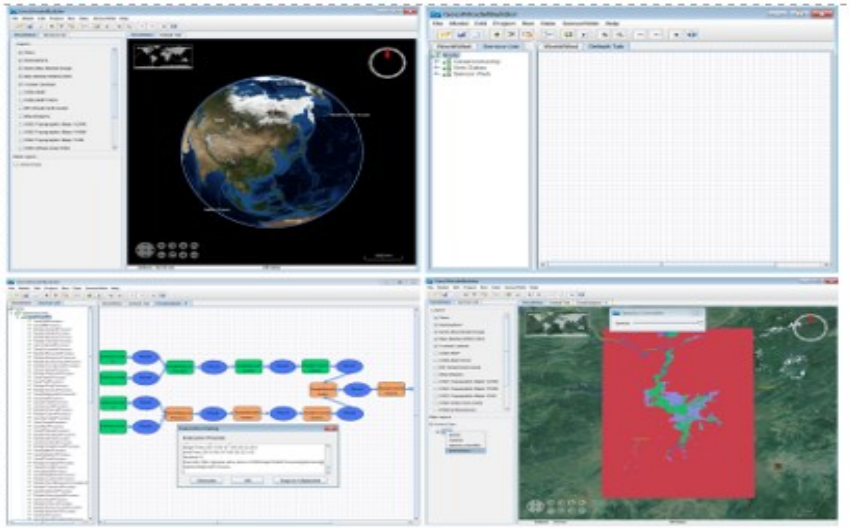


Air-Quality Data 3D Visualization

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

Educational content sharing...
One important component of GeoForAll

GeoForAll
Educator Awards
for 2015

GeoForAll Educator Award – 1st year

To recognize educators in the GeoForAll community who are doing important things to
move the GeoForAll educational mission forward

Team Award

Individual Award

Educator Award International Committee
(random order)

Georg Gartner (President, ICA)
Jeff McKenna (President, OSGeo)
Chen Jun (President, ISPRS)
Maria Antonia Brovelli (Italy)
Xinyue Ye (USA)
Luciene Delazari (Brazil)
Tuong-Thuy Vu (Malaysia)
Venkatesh Raghavan (Japan/India)
Ivana Ivánová (Brazil)
Jeroen Ticheler (The Netherlands)
Serena Coetzee (South Africa)
Helena Mitasova (USA)
Anne Ghisla (Germany)
Patrick Hogan (USA)
Suchith Anand (UK/India)
Charlie Schweik (USA)

Nominees – Individuals

Daniel Baldwin, Costa Rica International Academy, Costa Rica.

For his "Mapping the Mangroves" course

Phil Davis, DelMar College, Texas, USA

For his leadership and tireless efforts leading the creation of the GeoAcademy

Genovevea Laurente, Consultora Calixto, Uruguay and gvSIG Batovi

For the course "Sistemas de Información Geográfica con uso de datos abiertos orientado a la educación," or in English, "Geographic Information Systems for Education using Open Data"

Kurt Menke, Bird's Eye View GIS, Alburquerque, NM, USA

For his Introduction to Open Source and Web Mapping course he developed for Central New Mexico Community College

Sterling Quinn, Pennsylvania State University, Pennsylvania, USA

For his course on "Open Web Mapping"

Giorgio Zamboni, Politecnico di Milano, Como campus, Italy

For his "PoliCrowd: A Social Network App with NASA World Wind.

Nominees – Teams

Environmental Information Centre, UNEP/GRID Warsaw

For their EduGIS Academy

The Open Source Geospatial Laboratory team at ETH Zurich, Switzerland

For their Interactive Web Maps course

Shashi Shekhar and **Brent Hecht, Computer Science, University of Minnesota, USA**

For their Massive Open Online Course "From GPS and Google Maps to Spatial Computing"

Lluis Vicens (SIGTE,Spain), Toni Hernandez (SIGTE, Spain), Jeremy Morley (University of Nottingham,UK), Alberto Romeu (Prodevelop) and Jorge Sanz (Prodevelop)

For their GIS Open Source Summer School at the University of Girona in Spain

Ricardo Olivira, Raphael Moreno - FOSS4G lab, University of Colorado, Denver USA

For their PostgreSQL/PostGIS course materials

Raquel Sosa, Rosario Casanova and Jorge Franco

For their gvSIG Educa/Batovi effort in Uruguay

Kurt Menke - Bird's Eye View, **Nate Jennings** Urbandale Spatial, **Jon Van Hoesen** Green Mtn College, **Rick Smith** Texas A&M, and **Phil Davis**, Delmar College

For their GeoAcademy development efforts

GeoForAll Individual Educator of the Year Award - 2015

Sterling Quinn, Pennsylvania State University, Pennsylvania, USA

For his course on "Open Web Mapping"

GeoForAll Team Educator of the Year Award - 2015

Kurt Menke - Bird's Eye View, **Nate Jennings** Urbandale Spatial, **Jon Van Hoesen** Green Mtn College, **Rick Smith** Texas A&M, and **Phil Davis**, Delmar College (all in USA)

For their GeoAcademy development efforts

fossgeo.org

Educating 21st century geospatial technology workers

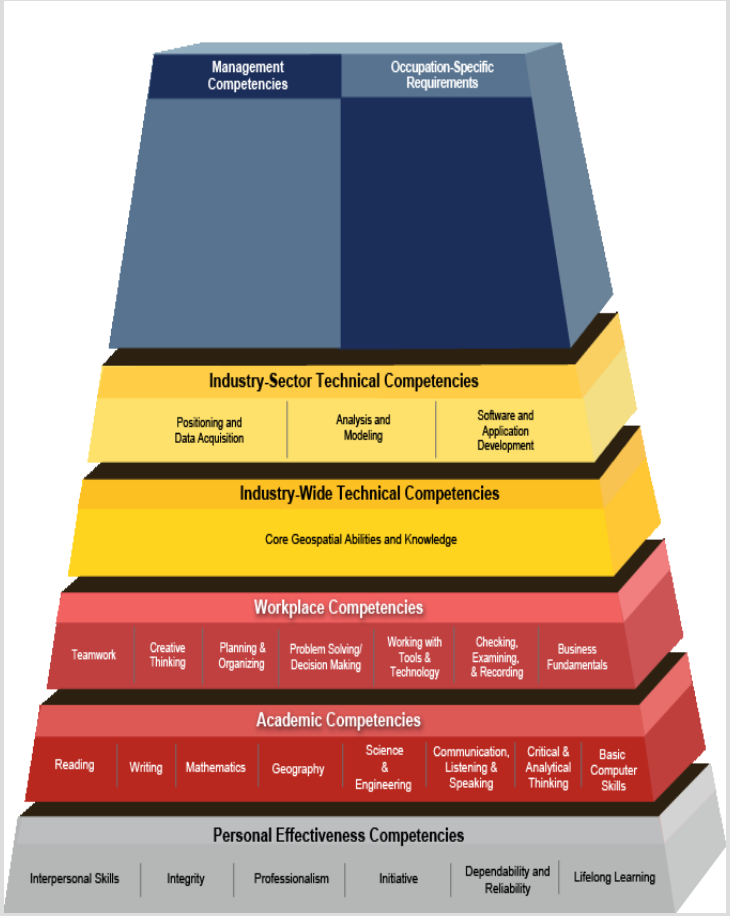
Phillip Davis| Kurt Menke| John Van Hosen |Richard Smith

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 earning skills
- Increase the use of open source tools in college GIS programs

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



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

With GeoAcademy MOOC launched we aim to benefit 1000s of students

Why create openness in Geo Education?

- helps in empowerment of staff and students
- capacity building
- developing creative and open minds in students which is critical for building open innovation
- contributes to building up Open Knowledge for the benefit of the whole society and for our future generations.

International Cartographic Association
Association Cartographique Internationale
ICA ACI

isprs
information from imagery

OSGeo
Your Open Source Compass

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

Let us all join to eradicate extreme poverty and enable shared prosperity for all