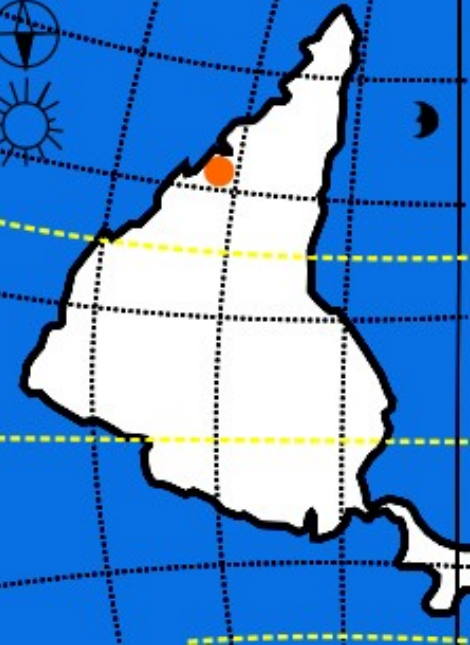




8vas Jornadas de
Latinoamérica
y el Caribe de gvSIG

2das Jornadas de
Tecnologías Libres
de Información Geográfica y
Datos Abiertos



Transformando paradigmas de
tecnología e información

GeoForAll

una red de laboratorios para garantizar una
educación geoespacial accesible a nivel
global

20 de octubre de 2016

Sergio Acosta y Lara
sergio.acostaylara@mtop.gub.uy



GeoForAll -

El compromiso de OSGeo con la educación y la investigación: Cómo funciona y cómo unirse

Sergio Acosta y Lara

Coordinador gvSIG Batoví – Dir. Nac. Topografía/MTOP

Con contribuciones de Helena Mitasova, Suchith Anand, María A. Brovelli, Silvana Camboim, Antoni Pérez Navarro, Rania Elsayed, Tuong-Thuy Vu y otros

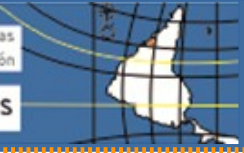




Quiénes somos

**Una red global de laboratorios de
educación e investigación
académica + socios de gobiernos y
la industria**

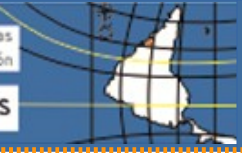




Cuál es nuestra misión

**Hacer que la educación y las
oportunidades geoespaciales sean
accesibles a todas y todos**





Qué proponemos

Una ciencia geoespacial abierta basada en:

- software libre geoespacial
- datos abiertos
- estándares abiertos
- recursos educativos abiertos
- acceso libre a publicaciones de investigación





Cuáles son nuestros objetivos

- Crear oportunidades de investigación y enseñanza en ciencia geoespacial abierta
- Construir una infraestructura global y abierta para la enseñanza y la investigación
- Establecer colaboraciones entre la academia, el gobierno y la industria en torno a la ciencia y la educación geoespacial abierta





Cómo empezó

2011: Memorando de Entendimiento entre OSGeo y la Asociación Cartográfica Internacional - ICA





Nuevos MdeE

Con la Sociedad Internacional de Fotogrametría y Percepción Remota (ISPRS) en 2014; con el Consorcio Universitario para las Geociencias (UCGIS) previsto para este año





Mapa laboratorios en 2012

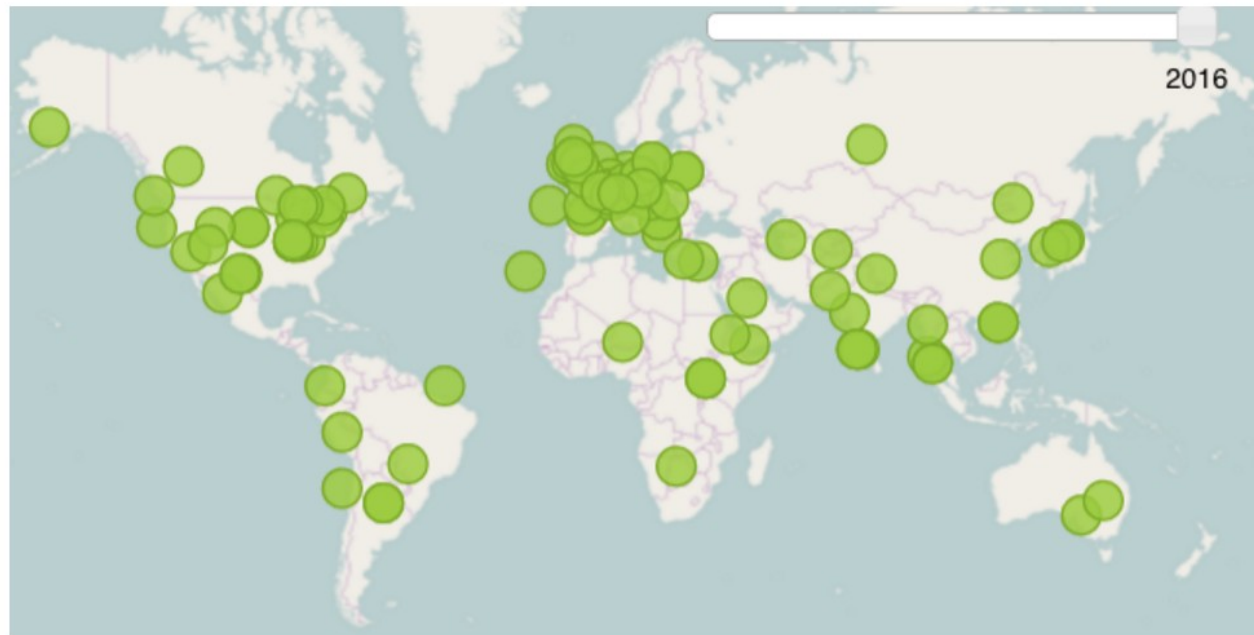
10 laboratorios en 2012





Mapa laboratorios en 2016

¡Más de 100 laboratorios en todo el mundo en 2016!





Organización

- Director Global: Suchith Anand
- Presidentes regionales para cada continente:
 - son las personas de contacto para nuevos miembros
- Consejo Asesor: presidentes de OSGeo, ICA, ISPRS, mas académicos y técnicos de reconocida trayectoria
- Más de 100 directores de laboratorios





Boletín de noticias

- jefe de redacción Nikos Lambrinos, Univ. Aristóteles de Tesalónica, Grecia
- reseña de actividades mensuales, laboratorio del mes
- eventos, conferencias, seminarios, cursos, talleres
- financiamiento, becas, programas de intercambio
- ideas, contribuciones sociales



<http://www.geoforall.org/newsletters/>





Educación e investigación

- Desarrollo de una plataforma de acceso libre a material educativo compartido basado en FOSS4G (y no limitado a proyectos OSGeo)

http://www.osgeo.org/educational_content

- Desarrollo/contribución al software libre geoespacial, datos abiertos
- organización/participación en Code Sprints comunitarios
- premios e incentivos a estudiantes y laboratorios





Seminarios en línea

¿interesado en presentar? Contacto: Rafael.Moreno@ucdenver.edu



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Webinars

Be part of "Geo for All"

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Webinars

The "Geo for All" and the University of Colorado, Denver, USA are now pleased to inform the schedule of "Open Geospatial Science & Applications" webinar series. Thank you to all of you who have volunteered their webinars. These webinars (and recordings) are viewed by hundreds of people around the world. The webinars will be in English and open and free to all on first come register basis.

Rafael Moreno is the main coordinator of the webinar series. Please contact him at Rafael.Moreno@ucdenver.edu if you wish to know more details.

For more details, you can also contact University of Colorado Denver FOSS4G Lab at <http://geospatial.ucdenver.edu/foss4g>.

Recordings of previous webinars are available in:

Geo4all Webinars YouTube Channel

Upcoming webinars

September 29 2016 (Thursday) 5:00 PM (GMT) - State of the use of FOSS and FOSS4G in Mexico. Manuel Haro, Laboratory for Open Source Software (LABSOL), Government of the State of Zacatecas, Mexico.

Click here to join webinar. No registration required. Or cut and paste to browser:
<https://ucdenver.zoom.us/j/960974727>

This webinar will present an overview of the state of initiatives and use of FOSS and FOSS4G in Mexico. There are several efforts in the country to promote the use of FOSS/FOSS4G in government, education, and private companies. There are several experiences that

111 labs worldwide as of 10th October, 2016




ICA-OSGeo MoU







Conferencias

- sesiones académicas en los FOSS4G mundiales
- contribuciones con sesiones en las principales conferencias científicas (ISPRS, AGU, EGU, ...)
- premios a los mejores trabajos de estudiantes por parte de OSGeo, ICA, ISPRS





Más actividades...

- grupos temáticos:
 - OpenCity smart (ciudades inteligentes abiertas)
 - AgriGIS
 - CitizenScience
 - educación básica, con la colaboración mapstory.org
- desafío NASA World Wind-Europa





Y más...

Contribución a Objetivos del Desarrollo Sustentable de la ONU en 6ª. sesión del Comité de Expertos en Gestión de Información Geoespacial Global (UN-GGIM agosto 2016)



Reduce Inequality within and among countries

THE GLOBAL GOALS
For Sustainable Development

10 REDUCED INEQUALITIES

Target 10.5: The goal call for action to reduce inequalities within and among countries. Inequality can have a strong geographic component and maps are a powerful tool to understand factors and plan measures to address such issues.

Indicator 10.5.1: A variation on the measure of income inequality by offering open data, open source software, open standards and open education.

Target 10.5: The goal call for action to reduce inequalities within and among countries. Inequality can have a strong geographic component and maps are a powerful tool to understand factors and plan measures to address such issues.

Indicator 10.5.1: A variation on the measure of income inequality by offering open data, open source software, open standards and open education.

10 REDUCED INEQUALITIES

GEOLAB IN ACTION

GEOLab is actively collaborating with the Humanitarian OpenStreetMap Team (HOT) and the Missing Maps project to organize and run humanitarian mapeathons, such as the mapeathon after the Nepal's earthquake in April 2015. A world record mapeathon with more than two hundred to yearold children was held in March 2016.

A Volunteer Geographic Information (VGI) collaborative platform named PolCrowd has been developed since 2013. Based on NASA World Wind virtual globe, it is a multidimensional and multithematic platform to organize, visualize and collaboratively enrich VGI collected through mobile devices.

GeoLAB is also involved in teaching and research using Open Source platforms, and organizing FOSS4G events.

VIVA GIS! EMPOWERMENT THROUGH MAPPING

In 2015, the University of Pretoria partnered with the Viva Foundation, in the Alaska informal settlement in the City of Tshwane, to start a project that aimed to ultimately empower the settlement. The project was driven by the final year geoinformatics students in the GIS.

The first phase was the mapping of the settlement. Data such as dwelling numbers, location of taps and point of interest and footpaths were captured.

Four projects were identified to implement a web GIS solution:

- Fire safety and Management,
- Health Care, Service
- Delivery and Security and
- Surface Runoff Risk Zones.

LABGEOVIVRE - MAPPING INEQUALITY IN BRAZIL

Brazil is one of the countries with the highest economic and social inequality levels.

Labgeovivre has been promoting mapeathons to improve the use of VGI to supply data were it is not available. Additionally, the group develops Open Source solutions, conducts research and creates applications such the study: Mapping inequality in Curitiba, Brazil.

The maps show the spatial distribution of income, race and homeless population in Curitiba.

This is an example of mapping the SDG indicator: 10.2 By 2030, empower and promote the social, economic and political inclusion of all, irrespective of age, sex, disability, race, ethnicity, origin, religion or economic or other status

GVSIG BATOVÍ

gvSIG Batoví is an open GIS (Geographic Information System) software tool applied to educational environments through which Primary and Secondary students can acquire knowledge of geography using laptops through didactic and interactive information. Source: Bem

Primary and Secondary students can make their own thematic maps.

Knowledge of geography in an attractive, motivating and interactive environment

The tool, after its launch, became the first Uruguayan distribution that gives rise to gvSIG Educativa, which aims to be a tool for educators to provide students a better analysis and understanding of the territory, as well as collaborate with the assimilation of special concepts using visual tools.

GEORFOR ALL

Open Source Geospatial Technologies

OSGeo
Your Open Source Compass

ICACI Commission on Open Source Geospatial Technologies
Chair: Werner Philipp (Austria) | Chair: Werner Philipp (Austria) | Chair: Werner Philipp (Austria)

WE MAPS
INTERNATIONAL MAP YEAR 2016-2017

International Geographical Association
Association of Geographers International
ACT





Google Summer of Code

- Oportunidad ofrecida a OSGeo para proyectos geoespaciales de OSGeo e invitados
- 22 estudiantes aceptados en el año 2016
- **gvSIG Batoví ganador de una beca (ver siguiente presentación)**



Google Summer of Code @



https://wiki.osgeo.org/wiki/Google_Summer_of_Code_2016_Ideas





Dónde encontrar más información

- Página web: <http://www.geoforall.org/>
- Listas de correo: globales y regionales



The screenshot shows the homepage of the Geo for All website. The header features a navigation menu on the left with items: Home, About, Advisory board, How to join, Locations, News, Newsletters, Resources and references, Training, and Webinars. The main content area has a banner that says "Be part of 'Geo for All'" and a mission statement: "Mission - 'Making geospatial education and opportunities accessible to all'". Below the mission statement, it states: "Geo for All" is the Open Source Geospatial Foundation's Open Educational outreach with our partners worldwide with the mission for making geospatial education and opportunities accessible to all. A world map shows 111 labs worldwide as of 10th October, 2016. A link for "Geo for All overview presentation" is provided. The footer mentions that in September 2011, the Open Source Geospatial Foundation (OSGeo) and the International Cartographic Association (ICA) were involved.





Dónde encontrar laboratorios integrantes de la red

wiki: http://wiki.osgeo.org/wiki/Edu_current_initiatives

- Tabla de integrantes con enlaces a los laboratorios
- Boletín: laboratorio del mes
- Temas de educación e investigación

University/Higher Education/Schools members

◆	Laboratory name and institution ◆	City ◆	Country ◆	Continent ◆	Coordinates (longitude, latitude) ◆	Application received / Announced ◆	Notes (projects, collaborations, etc) ◆	Contact names ◆	Contact emails ◆
1.	University of Nottingham ◆	Nottingham	UK	Europe	-1.250296, 52.831497			Didier Leibovici	Didier dot Leibovici at nottingham ac uk
2.	University of Girona ◆	Girona	Spain	Europe	2.837305, 41.967426	2012-09-10		Lluís Vicens	lluis at sigte.udg.edu
3.	University of Southampton ◆	Southampton	UK	Europe	-1.396873, 50.936974	2013-04-30		Jason Sadler	osgl at geodata.soton.ac.uk
4.	Czech Technical University in Prague ◆	Prague	Czech Republic	Europe	14.390363, 50.10183	2012-11-23	Geospatial analysis, modeling and visualization, remote sensing, GRASS GIS ◆ and QGIS ◆ development	Martin Landa	martin.landa at fsv.cvut.cz philo iames at ncl.ac.uk (please





Cómo participar

Tres maneras de participación:

- como **miembros** de la red global: laboratorios académicos
- **socios** de la Industria, el Gobierno, ONGs
- **organizaciones profesionales internacionales** a través de MdE (MoUs)





Cómo unirse

http://www.geoforall.org/how_to_join/

- lee los criterios
- si los cumples, ponte en contacto con un representante regional y describe tus actividades geoespaciales open source
- si te invitan:
 - regístrate en la wiki de OSGeo
 - crea la entrada para tu laboratorio en la tabla wiki
 - únete a la lista de correo
 - enumera tus intereses en investigación y educación
 - participa – consulta http://wiki.osgeo.org/wiki/Geoforall_criteria





Cuáles son los beneficios de unirse a GeoForAll

Esa no es la pregunta correcta; deberías preguntar

Cómo puedo contribuir





Antoni Pérez Navarro

co-coordinador

Grupo Temático Español

de GeoForAll

E:\geo4all_saludo.mp4





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Transformando paradigmas de
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**¿Preguntas?
Muchas gracias**

sergio.acostaylara@mtop.gub.uy
geoforall@lists.osgeo.org