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Plan Ceibal

gvSIG Educa/Batoví: an educational tool for teaching GIS in schools

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

ICA-OSGeo Lab Network
Geo4all <http://www.geoforall.org/>



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Summary

- 1. What is gvSIG Batoví?***
- 2. Why gvSIG Batoví?***
- 3. Previous experiences and its analysis***
- 4. Justification***
- 5. gvSIG Batoví***
- 6. Sustainability***
- 7. Actual and future developments***



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1. What is gvSIG Batoví?

It's a **GIS** (Geographic Information System) applied to **educational environments** with destination to the Plan Ceibal (OLPC initiative for Uruguay), based on **gvSIG**





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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





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2. Why gvSIG Batoví?

- Particular concern of Government towards Education
- Contribution: initiative of the Minister (MTOP)
- Reformulation of the initiative from the GIS Section (National Directorate of Topography - MTOP)



3. Previous experiences and its analysis

AEGIS

£100 each license

Where is the best place to site a new bench?

Lesson 1

Step 1
Decide which data is needed to make a decision on siting the bench. Temperature? Wind Speed?

Step 2
Decide where to take recordings of the temperature and wind speed. Mark the places on the map.

Step 3
Record the data.

Lesson 2

Load the prepared AEGIS file. Add the data to the table and explore the map using the Help Sheet. How can you find the best place for a bench using your data?

	Location	Temperature	Wind Speed
1	Site 1	10.6	6
2	Site 2	10.1	6
3	Site 3	13.1	2
4	Site 4	12.0	4
5	Site 5	13.5	1
6	Site 6	12.0	2
7	Site 7	10.5	5
8	Site 8	14.5	0
9	Site 9	11.0	2
10	Site 10	12.3	2
11			

Decide how you would find the best place to sit. Would you want it warm or cool? Sheltered or windy?

Use the AEGIS 3 Help Sheet
http://www.advisory-unit.org.uk/pdf/help/get_started_aegis.pdf

1. Display a bar chart of temperature on the map.
2. Search for the warmest places - where are they?
Type your answer here:
3. Display the wind speed on the map.
4. Search for the most sheltered places - where are they?
Type your answer here:
5. Are there any places that are warm and sheltered?

Add your answer to the sentence opposite.

RGB Aerial Photography © GeoPerspectives

This detailed aerial photography was obtained from Bluesky.

I think the best place for a bench is Site __, because the temperature is __ and the wind speed is __.

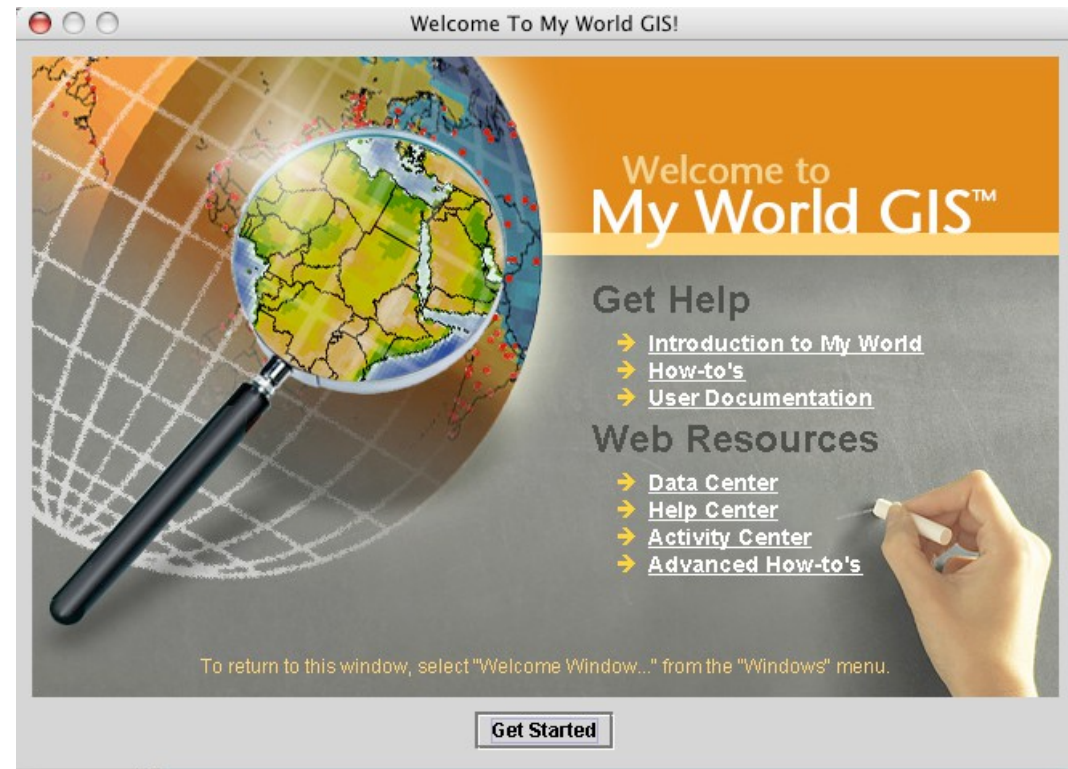


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3. Previous experiences and its analysis

My World GIS
from **U\$S 99** each
license





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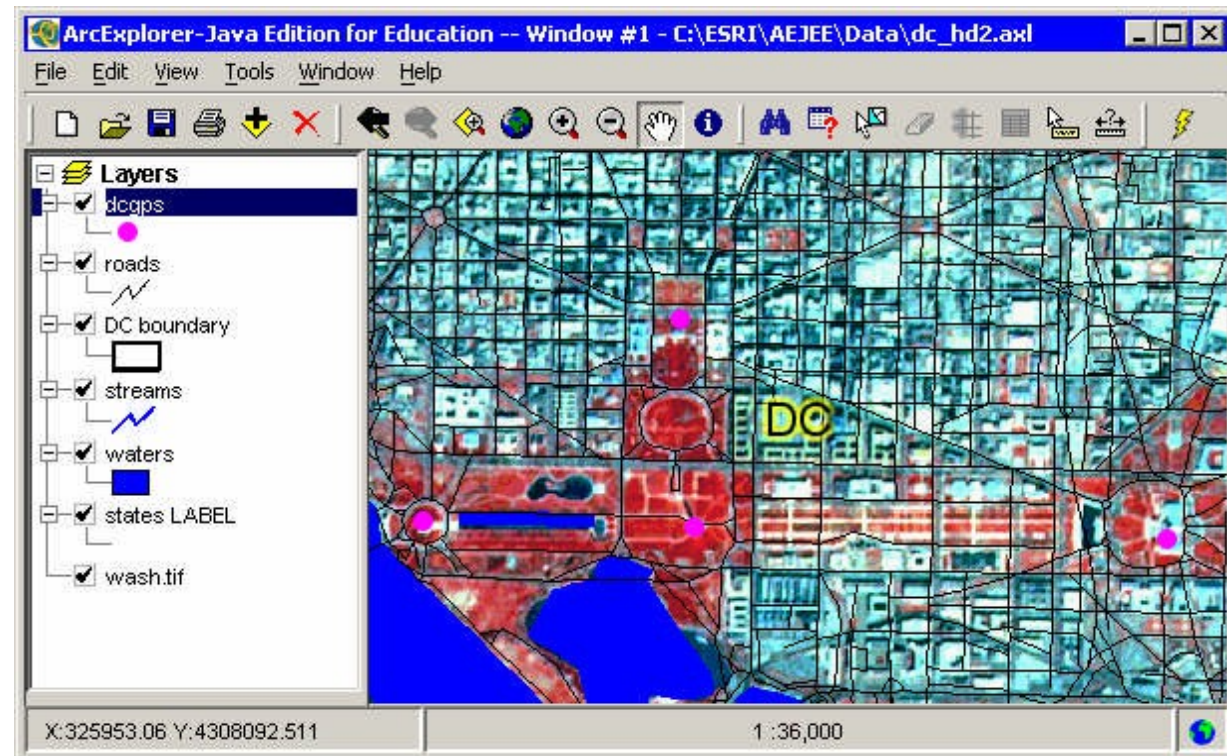


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3. Previous experiences and its analysis

AEJEE:
ArcExplorer™
Java™ Edition for
Education

free/gratis light
GIS, but it
doesn't allow
data edition;
only exploration





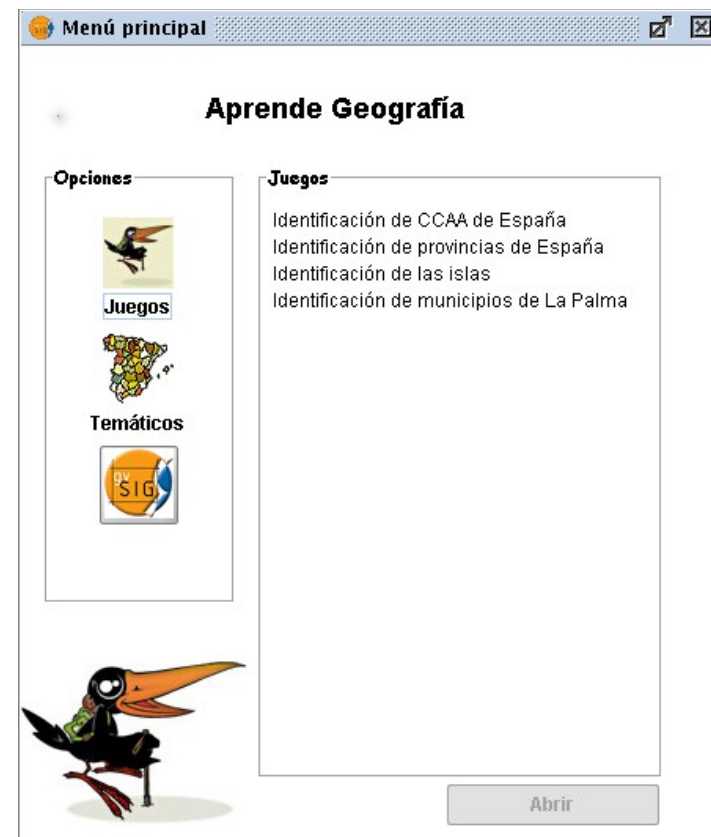
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3. Previous experiences and its analysis

EduSIG

- a configurable gvSIG designed for education, with the possibility of adding new games/contents/exercises
- prototype with a pending development





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4. Justification (I)

Because of being **open**, gvSIG allows **customization** to meet the objectives of this GIS project for educational environments. It also allows to be **configurable**, being easy to add new content / games / exercises

Because of being **open**, the resulting product using gvSIG allows the **improvement** and **further development** by the **Community**

Using gvSIG ensures that the resulting tool is useful not only for Uruguay but also allows its spreading worldwide **free, open and without charge**



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4. Justification (II)

Because of being **free**, gvSIG allows **access** to the application **to anyone** without any restrictions and free of contractual constraints

Because of being **free/gratis**, gvSIG ensures **zero installation cost or licensing** no matter you use it in one or in 400,000 computers

Because of having a very active **international gvSIG community** of both users and developers gvSIG Educa/Batoví end users will always benefit from **solid and consistent support**

There is also a strong and growing **local gvSIG community** which serves as an **additional support** for the project



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5.gvSIG Batoví

GIS + Geodata = tools + information



Answer:

- FLOSS
- For education
- Free data



Accesible!!! Free of charge!!! Done by cooperation!!!

For teachers and students

Can be adapted to any educational level



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http://www.gvsig.org/plone/projects/gvsig-educacion/descripcion-en/view?set_language=en



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5.gvSIG Batoví

Educational uses

“if i can't picture it i can't understand it” (A.Einstein)

- **Analysis and understanding** of the territory
 - In a simple way
 - Or with the level of complexity we need
- Applied **not only for geographical subjects...**
 - **History**
 - **Natural sciences**
 - **Social Sciences**
 - ...80% of all information can be represented on a map
 - ...and a picture is worth a thousand words



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5.gvSIG Batoví

Inherited characteristics

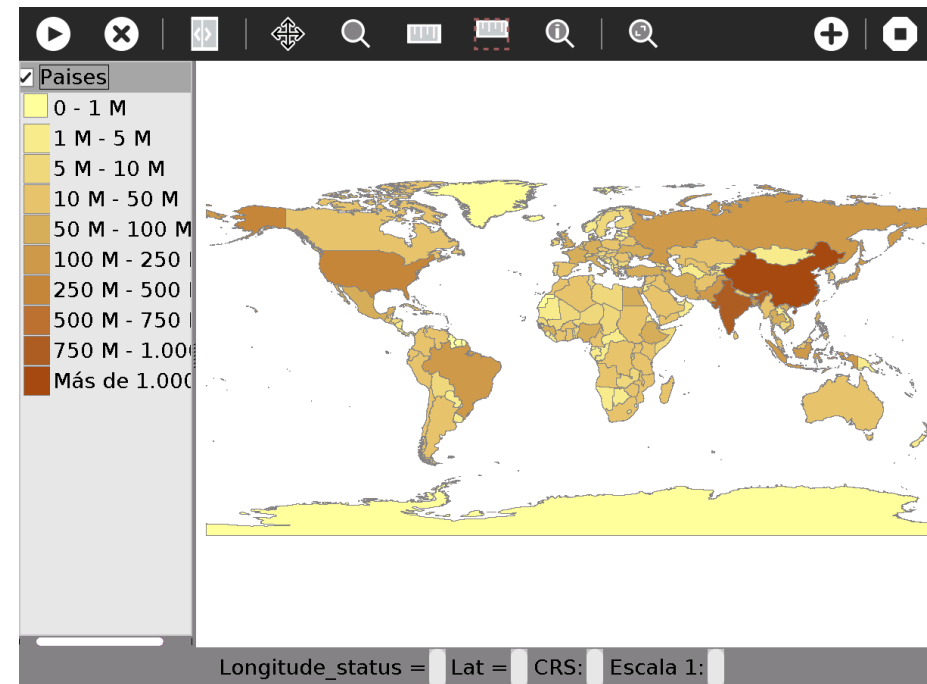
- **Access** to local and remote **data**
- OGC / ISO **Standards**
- Easily **extensible**, allowing continuous improvement of the application and its **adaptation** in order to develop customized versions for each educational level, country, culture ...
- **GNU / GPL** license: allows free use, distribution, research and improvement
- Available in multiple **languages and easy to translate**
- **Multiplatform**: Linux, Windows and Mac OS X.
- Tools for interacting with GI: navigation, query information ...



5.gvSIG Batoví

Primary School Version

- Simple operation
- Visualization of geographic information
- Basic interaction with the cartography
- Allows inquiries:
 - Information associated with map elements
 - Measure distances and areas
- Interpretation of thematic map (legend)
- Cartographic concepts: coordinates and scale





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Secondary/High School Version

- More data handling capacity (more powerful hardware)
- A real GIS with endless possibilities for land analysis
- Keeps easy handling and basic interaction with cartography
- Allows querying and interpretation of thematic map (legend)
- Wider cartographic concepts: reference systems
- ALLOWS TO CREATE OUR OWN THEMATIC MAPS!





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But also ...

... can be used from any gvSIG

adding the possibility of creating thematic maps and share them in such a simple way ... **as if used by a child.**

Broadens the way in which all users of geographic information can share data and makes this easier



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Thematic Maps tool

- Useful for:
 - creating thematic maps ...
 - ... and for consulting them
- Generator
 - - different types of legends (single values, by ranges of values, ...)
 - - possibility of selecting different types of symbology
 - - save and load legends
 - - label elements in reference to associated data
 - - edition of data
 - ... and finally the creation of a thematic map for sharing both data and the way we made it look like



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5. gvSIG Batoví

A quick tour through the web:

http://www.gvsig.org/plone/projects/gvsig-educa/descripcion-en/view?set_language=en



site map accessibility contact

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you are here: home → gvsig projects → gvsig educa

gvsig educa

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What is gvSIG Educa?

by [Mario Carrera](#) — last modified 2013-05-13 17:49

← Up one level

← Previous gvSIG Educa

What is gvSIG Educa?

"If I can't picture it, I can't understand it (A. Einstein)"

gvSIG Educa is a customization of the **gvSIG Desktop** Open Source GIS, adapted as a tool for the education of issues that have a geographic component.

The aim of gvSIG Educa is to provide educators with a tool that helps students to analyse and understand space, and which can be adapted to different levels or education systems.

gvSIG Educa is not only useful for the teaching of geographic material, but can also be used for learning any subject that contains a spatial component such as history, economics, natural science, sociology...

gvSIG Educa facilitates learning by letting students interact with the information, by adding a spatial component to the study of the material, and by facilitating the assimilation of concepts through visual tools such as thematic maps.

gvSIG Educa provides analysis tools that help to understand spatial relationships.

gvSIG Batoví

gvSIG Educa arose out of the **gvSIG Batoví** distribution. This distribution is driven by the **Ministry of Transport and Public Works (MTOP) of the Republic Of Uruguay**, and is developed by the **gvSIG Association** and the **Faculty of Engineering at the University of the Republic (UdelaR)**. It is based on gvSIG and is focused on the use of GIS in educational settings bound to **Plan Ceibal** (Uruguay). The idea arose in response to the concerns of developing an educational application for issues relating to geographic information. This initiative has arisen within the context the work of the MTOP in the group responsible for promoting **IDE Uy** (Spatial Data Infrastructure of Uruguay).

Education is a top priority for the current Uruguayan government and the MTOP intends contributing towards this. The original proposal was to develop a digital atlas, to which the **National Survey Department** (D.N. Top., one of the departments of the MTOP), through the GIS Department, upped the ante and proposed creating a GIS for educational purposes to be used under the CEIBAL Project.

The purpose of the agreement (signed on March 21, 2011) between the MTOP and the gvSIG Association is to develop a powerful educational tool that enables primary and secondary education students to understand space, to easily interpret maps, to learn through play, and to learn free technologies.

gvSIG Batoví Blog: <http://gvsigbatovi.wordpress.com/>

Ceibal Project Web Portal: <http://www.ceibal.edu.uy/Articulos/Paginas/gvsig-batovi-resumen.aspx>

CEIBAL Project

Through the **Educational Connectivity/Basic Computing for Online Learning Project (CEIBAL)** initiative launched on 14 December 2006 by the President of the Republic, the Uruguayan government, in an historic decision, took on the challenge of distributing free laptops to all children of Common Education (grades 1 to 6) and their respective teachers in public schools across the country. The said project is part of the Equity Programme for Access to Digital Information (PEAID) and has, as its universal goal, access to computers and internet in the first level of the Uruguayan education system. The Office of the President and the Laboratory Tecnológico del Uruguay (LATU) were initially responsible for the central coordination of the CEIBAL project, which also includes the participation and co-direction of the National Administration of Public Education (ANEP), the Ministry of Education Culture (MEC), the Agency for Electronic Government and Information Society (AGESIC), the National Research and Innovation Agency (ANII), and the National Telecommunications Administration (ANTEL). From October 6th 2010, students and teachers of public secondary education (Secondary and Technical Schools) also began receiving their laptops, signifying the progress of



Next: Functionalities ▶



news 653

New final version of i3Geo available: i3Geo 5.0

1as Jornadas Mexicanas de gvSIG: Ponencias

Taller de introducción a gvSIG Desktop 2.1

Grabación del webinar 'Scripting en gvSIG Desktop 2'

i3Geo 5.0 RC1 available



5.gvSIG Batoví

gvSIG Educa

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





Called time: 05/23/14 09:34:54 @

Downloads

by [Mano Carrere](#) — last modified 2013-09-04 14:20

▲ Up one level

◀ Previous gvSIG Batoví 1.0.0

Version	Binaries	Notes	Code	Documentation
Versions in development				
gvSIG Batoví 1.0.0 RC3 (developed on gvSIG 2.0) (28-08-2012)	Map viewer (Green Ceibalita - 6-12 years old):  .XO (24.0 MB)		Source code repository	Install manual gvSIG Batoví user manual Map viewer manual Cartography and GIS concepts How to generate a gvSIG Educa distribution ( 0.3 MB,  0.2 MB)
gvSIG Batoví 1.0.0 RC2 (16-05-2012)	Map viewer (Green Ceibalita - 6-12 years old):  .XO (23.0 MB) gvSIG Batoví (Blue Ceibalita - 12-16 years old):  .XO (62.0 MB) All the versions of the different plugins are also included from the development server.	NOTE: The plugins of the thematic maps can be installed on gvSIG 2.0 too. Consult install instructions.	Source code repository	Install manual gvSIG Batoví user manual Map viewer manual Cartography and GIS concepts
gvSIG Batoví 1.0.0 RC1 (developed on gvSIG 2.0) (16-05-2012)	Map viewer (Green Ceibalita - 6-12 years old):  .XO (22.0 MB) gvSIG Batoví (Blue Ceibalita - 12-16 years old):  .XO (78.0 MB) All the versions of the different plugins are also included from the development server.	NOTE: The plugins of the thematic maps can be installed on gvSIG 2.0 too. Consult install instructions.	Source code repository	Install manual gvSIG Batoví user manual Map viewer manual Cartography and GIS concepts



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Advantages

- use of technology as an educational tool
- concepts easier to absorb (thematic maps, graphics, ...)
- dynamic spatial relationships
- creativity and interactivity with the information
- strong analytical ability
- applicable to multiple subjects
- easy to use
- adaptability
- free data accessibility
- free software availability
- software being used in higher education
- values of collaboration and solidarity
- educational community
- sharing is easy
- to share is to add



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6. Sustainability

Web page inside Ceibal:

<http://www.ceibal.edu.uy/art%C3%ADculo/noticias/docentes/gvsigbatoviresumen>

The screenshot shows a web page with a dark header containing the Plan Ceibal logo and navigation links: Inicio, Estudiantes, Docentes, Consultas, Plataformas, Institucional, Tutorial, and social media icons for Facebook and Twitter. A left sidebar menu lists: Noticias, Consultas, Docentes, Estudiantes, Institucionales, and Preguntas Frecuentes. The main content area features a large illustration of a female scientist in a white lab coat holding a test tube. The title is 'gvSIG Batoví - presentación'. The text describes gvSIG-Batoví as a Geographic Information System for educational environments, based on free software developed by the Generalitat Valenciana de España and adapted for Plan Ceibal. It includes a date 'miércoles, 29 de agosto de 2012 3:00' and a sub-header 'Sistema de Información Geográfica aplicado a entornos educativos con destino al Plan Ceibal en base a gvSIG'. The main body text explains that gvSIG-Batoví is a free GIS for Plan Ceibal, developed by the Generalitat Valenciana de España and adapted by the Association gvSIG and the Geospatial Information Group of the Faculty of Engineering at UDELAR. It also defines what a GIS is and lists the features offered by gvSIG Batoví, such as a map generator and thematic maps.



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Batoví blog:

<http://gvsigbatovi.wordpress.com/>

The screenshot shows the gvSIG Batoví blog homepage. At the top left is the gvSIG Batoví logo. To its right is the text: "Sistema de Información Geográfica aplicado a entornos educativos con destino al Plan Ceibal en base a gvSIG". Below this is a navigation menu with links: "INICIO", "SOBRE GVSIG", and "TUTORIALES Y VIDEOS".

The main content area features two articles:

- Consultora Calixto premiada en DAL 2013**
La Consultora Calixto ha obtenido el 3er. puesto en la Apps Challenge 2013 de DAL (<http://2013.desarrollandoamerica.org/>). La propuesta (<http://2013.desarrollandoamerica.org/portfolio/2347/>) se apoya en el uso de gvSIG Batoví como herramienta para la educación ambiental a través del uso de los Sistemas de Información Geográfica. Una vez más felicitamos a Geneveva y Gabriel por este nuevo logro, destacando ... [Sigue leyendo →](#)
[Deja un comentario](#)
- gvSIG Batoví en las 5as Jornadas de Latinoamérica y Caribe de gvSIG**
Geneveva Laurente y Gabriel Calixto (de la Consultora Calixto) realizaron el pasado miércoles 23 de octubre una presentación sobre "Sistemas de Información Geográfica aplicados como Tecnologías Educativas en procesos de Formación y Actualización Docente para la Conservación de la Naturaleza" durante las 5as Jornadas de Latinoamérica y Caribe de gvSIG. En la misma destacaron el uso ... [Sigue leyendo →](#)
[Deja un comentario](#)

The right sidebar contains:

- The Plan Ceibal logo.
- A search box labeled "Buscar".
- A section titled "Enlaces de interés" with links: [gvSIG Batoví](#), [gvSIG Educa](#), [lista de correo](#), [Plan Ceibal](#), and [twitter](#).
- A section titled "Últimas entradas" with links: [Consultora Calixto premiada en DAL 2013](#), [gvSIG Batoví en las 5as Jornadas de Latinoamérica y Caribe de gvSIG](#), [Trabajo a presentar en las 5as Jornadas de Latinoamérica y Caribe de gvSIG: "El saber otorga libertad"](#), [Taller Ceibal-Paepu sobre gvSIG Batoví para formadores](#), and [ICA-OSGeo Lab Network y gvSIG Batoví](#).
- A "Historial" section.

At the bottom right corner, there is a "Seguir" button with a plus icon.



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Mailing list:

<http://lists.osgeo.org/cgi-bin/mailman/listinfo/gvsig-batovi>



home organization user documents downloads news production

you are here: home → gvSIG projects → gvSIG Educa → distribution lists

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Distribution lists

by Mario_Caceres — last modified 2012-11-13 12:23

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Mailing lists are the meeting point for the gvSIG community. Through this lists users, developers and all the rest of actors of the project share, discuss, decide and resolve everyday tasks of the project.

The gvSIG Educa project has a users mailing list:

- <http://lists.osgeo.org/cgi-bin/mailman/listinfo/gvsig-batovi>

You can use English, Spanish and Portuguese.

There's also a mailing list archive, that let not only to search messages, but also access the lists and even participate on them on alternative ways:

- <http://osgeo-org.1560.n6.nabble.com/gvSIG-Batovi-f5008753.html>

The doubts about development can be consulted at the Spanish and English development mailing lists. On this webpage you can find links for registering on these mailing lists.

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search



gvSIG-Batovi – Lista de correo para el proyecto gvSIG Educa

View this page in
English (USA)

About gvSIG-Batovi

Esta lista de correo pone en contacto a los miembros de la comunidad gvSIG Educa y cualquier interesado en esta iniciativa.

To see the collection of prior postings to the list, visit the [gvSIG-Batovi Archives](#).

Using gvSIG-Batovi

To post a message to all the list members, send email to gvsig-batovi@lists.osgeo.org.

You can subscribe to the list, or change your existing subscription, in the sections below.

Subscribing to gvSIG-Batovi

Subscribe to gvSIG-Batovi by filling out the following form.

You will be sent email requesting confirmation, to prevent others from gratuitously subscribing you. This is a private list, which means that the list of members is not available to non-members.

Your email address:

Your name (optional):

You may enter a privacy password below. This provides only mild security, but should prevent others from messaging with your subscription. Do not use a valuable password as it will occasionally be emailed back to you in clear text.

If you choose not to enter a password, one will be automatically generated for you, and it will be sent to you once you've confirmed your subscription. You can always request a mail-back of your password when you edit your personal options.

Pick a password:

Reenter password to confirm:

Which language do you prefer to display your messages? English (USA)

Would you like to receive list mail batched in a daily digest? No Yes

Subscribe

gvSIG-Batovi Subscribers

(The subscribers list is only available to the list members.)

Enter your address and password to visit the subscribers list:

Address: Password: Visit Subscriber List

To unsubscribe from gvSIG-Batovi, go to your account settings, or change your subscription options into your subscription mail address.



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English translation and international dissemination:

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



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Be part of "Geo for All"

Home

Mission - "Making geospatial education and opportunities accessible to all"

The motto of ICA-OSGeo Labs initiative is "Geo For All." The creativity, dynamism and high-profile success stories of the Free and Open Source Software for Geospatial applications (FOSS4G) movement are attracting increasing attention from end users, developers, businesses, governments, educators and researchers around the world. The goal of the initiative is to promote and enhance education, research and service activities carried out by these stakeholders in the area of Open Geospatial Science & Applications, all over the world. By combining the potential of free and open GI software, open data, open standards, open access to research publications, open education resources in Geospatial education and research will enable creation of sustainable innovation ecosystem to advance the discipline. This is key for widening geospatial education opportunities, accelerating new discoveries and helping solving global cross disciplinary societal challenges from Climate change mitigation to sustainable cities.

Free and Open Source Geospatial technologies are critical for both developed and developing countries as it 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. It also creates healthy competition for proprietary software. This has been the key reason why government organisations, universities and private companies, are turning to FOSS4G to carry out their missions. For universities, educational institutions, Open Geospatial Science & Applications is especially



78 labs worldwide as of 26th May, 2014

Welcome to our 50th lab

We are pleased to welcome GIS and Remote Sensing Unit at Fondazione Edmund Mach (FEM), Italy as our 50th lab. FEM have strong GIS research and development capabilities and are co-developer of the Open Source Geographical Information System software...

"Open Geospatial Science & Applications" webinar series launched

We are pleased to inform that 255 participants from all around the world attended our first webinar. The webinar was on the topic of "OSGeo Live for Education" and delivered by Jeremy Morley (University of Nottingham). Thanks to MundoGeo for providing...

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Training

- GIS for Schools initiative
- Full details
- EduGIS Academy guidebook
- Contact Elżbieta Wołoszyńska-Wisniewska
- gvSIG Batoví (contact Sergio Acosta y Lara)
- The video link (with English translation) — is useful to get basic information on the wider CEIBAL initiative.



78 labs worldwide as of 26th May, 2014



ICA-OSGeo MoU



ICA-OSGeo MoU



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6. Sustainability

Road map towards the implementation of Educa gvSIG:



GVSIG EDUCA

Technical implementation
report



Asociación gvSIG
www.gvsig.com



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7. Actual and future development

Planning specific activities for its promotion courses for educators

CURSO CONSERVACION Y SISTEMAS DE INFORMACION GEOGRAFICA

IFD.SAN RAMON

CHARLA INTRODUCTORIA: LUNES 22 DE JULIO 10:00 HS IFD SAN RAMON

WWW.DFPD.EDU.UY/IFD/SAN_RAMON/

inicio 1er módulo 29 de julio - inicio 2do módulo 27 de agosto - final del 2do módulo domingo 22 de setiembre - entrega de trabajo final domingo 20 de octubre

Destinado a estudiantes avanzados de IFD docentes de primaria secundaria y UTU
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Genoveva Laurento **SIG**
Gabriel Calixto
Áreas Protegidas y Conservación
Bettina Belgado **SOPORTE INFORMATICO**



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Taller 4as Jornadas LAC





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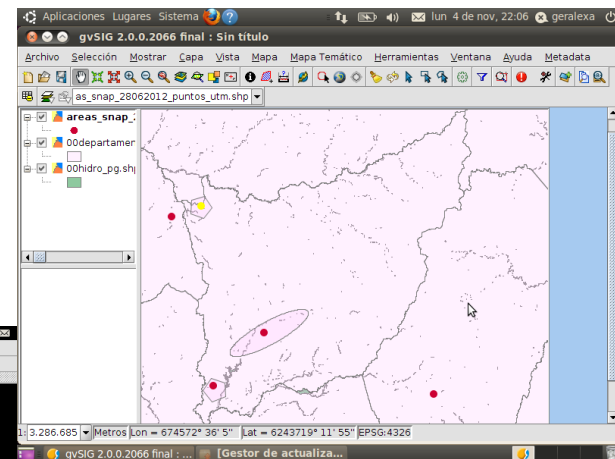
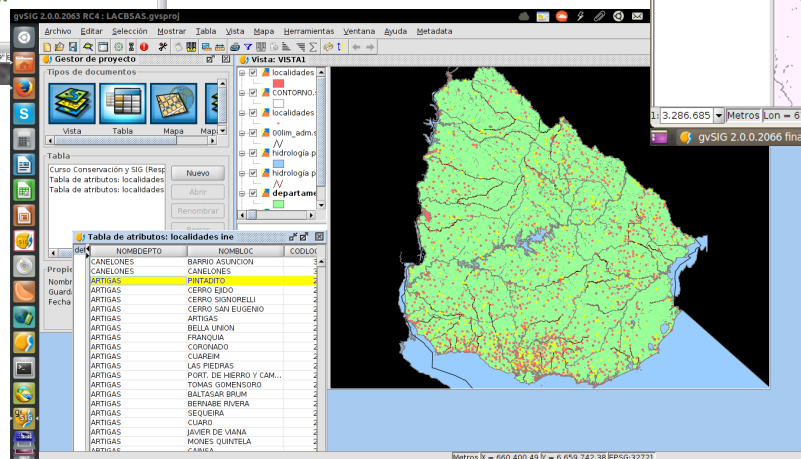
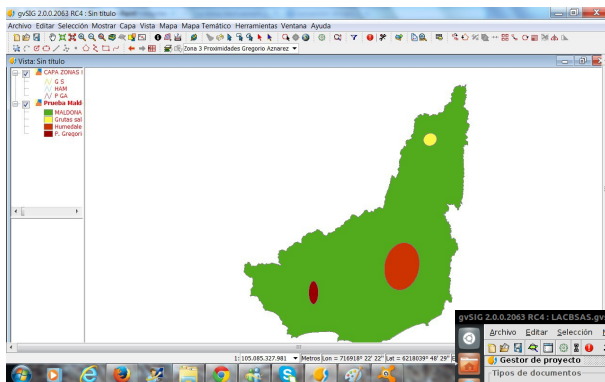


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7. Actual and future development

Planning specific activities for its promotion courses for educators





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Plan Ceibal

7. Actual and future development

Planning specific activities for its promotion courses for trainers

Sistema de Información Geográfica que utilizaremos a partir del 3er módulo del curso:

gvSIG BATOVÍ Sistema de Información Geográfica aplicado a entornos educativos con destino al Plan Ceibal en base a gvSIG



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Taller para formadores

30 setiembre 2013

MTOP DIRECCIÓN NACIONAL DE TOPOGRAFÍA gvSIG association Plan Ceibal

DESARROLLANDO AMÉRICA LATINA

Ganadores nacionales Uruguay 2013

Sistemas de Información Geográfica 2013

Uruguay Accesible 2013

Censo4Humans 2013



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7. Actual and future development

Planning specific activities for its promotion activities with students



DISEÑO DE
PaiSaJe
LICENCIATURA



Facultad de Ingeniería
Universidad de la República



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Plan Ceibal

7. Actual and future development

Solve some persistent problems

- Actual versions were developed for first models of laptops for Plan Ceibal
- They work under a special type of Linux, not the usual one
- New version under gvSIG 2.1 for Linux/Windows
- This new one will add interesting features (for instance the possibility of adding OSM layers)
- Search for funding to improve and expand functionality



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Plan Ceibal

- Training
- Dissemination
- New Tools, new versions

Spread and promote the use of gvSIG Batoví

Ensure that educators take ownership of it

iCREATE COMMUNITY!



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¿Questions?

(thanks to everybody al gvSIG Association, Plan Ceibal and MTOP for making this project possible, and special thanks to Genoveva Laurente, Álvaro Anguix and Mario Carrera for their help in this presentation)

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

ICA-OSGeo Lab Network
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