

gvSIG Suite: a complete catalog of open source software solutions for geomatics

Mario Carrera gvSIG Association mcarrera@gvsig.com



gvSIG Association A short introduction...



gvSIG Association

Who are we?

- It was born in 2010 within the frame of the gvSIG Project.
- Composed of companies and non business entities (universities, geographical institutes,...).
- It constitutes the biggest international network of experts in free geomatics.
- References and clients in more than thirty countries.
- Model based on the shared knowledge and the collaboration. Knowledge is transferred to the client.
- We offer learning, consulting, supporting, developments...



gvSIG Association

Clients and references: Some consulting examples

- Spatial Data Infrastructure. PDVSA (Venezuela)
- Migration from ArcGIS to gvSIG. Munich City Council (Germany)
- GIS analysis for urban areas. UN-Habitat (Kenya)
- Multimodal transport geoportal in Valencia (Spain)
- gvSIG development for cadastral management (Mexico)
- GIS for solid waste management in Basque Country (Spain)
- GIS for road management in the region of Valencia (Spain)



gvSIG Association

Awards and recognitions

- · 2020:
 - "Sustainable Entrepreneur" at Innovation+Sustainability+Network Awards by Expansión, Bankinter and Viesgo
- · 2017:
 - 1st prize in "Cross-border category" at "Sharing & Reuse Awards" of European Commission.
 - "Europa Challenge" in Helsinki awarded by NASA to the gvSIG Suite,
 - Excellence "Internationalization" Award given by the Professional Union of Valencia.
 - "ITC Promoter organization" prize awarded by the Valencian Telecommunications.
- · 2016:
 - "Europa Challenge" awarded by NASA (World Wind integration with gvSIG Online).
 - "Best open source mobile software" and "Most revolutionary software" Open source software awards.
- 2015:
 - "Europa Challenge" awarded by NASA (World Wind integration with gvSIG Deskerigion gvSIG www.gvsig.com



gvSIG Project

Some data...

- Translated to more than 30 languages
- Downloaded in more than 160 countries
- Several mailing lists; + 4.000 users
- Conferences in Spain, Germany, Italy, United Kingdom, Brazil, Russia, France, Argentina, Venezuela, Uruguay, Chile...



A whole catalog of open source software solutions



gvSIG Suite

- 'Horizontal' products:
 - gvSIG Desktop: Geographic Information System for editing, 3D analysis, geoprocessing, maps, etc
 - gvSIG Online: Integral platform for Spatial Data Infrastructure (SDI) implementation.
 - gvSIG Mobile: Mobile application for Android to take field data.
- Sector products:
 - gvSIG Crime: Geographic Information System for Criminology management.
 - gvSIG Educa: gvSIG adapted to geography learning in preuniversity education.



- Spatial Data Infrastructure
 - Database (spatial), Map server
 Geoportal(s), Catalog, Gazetteer
 - Desktop GIS
 - Mobile GIS



gvSIG Online

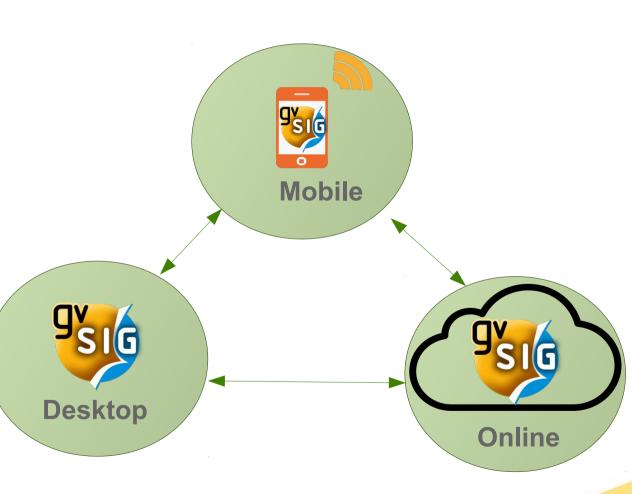
- Database (spatial), Map server
 Geoportal(s), Catalog, Gazetteer
- gvSIG Desktop
- gvSIG Mobile



- gvSIG Online
 - Database (spatial), Map server
 - Geoportal(s), Open Source software
 - gvSIG Lesktop
 - gvSIG Mobile
 - **Built-in**



- Free geomatics suite totally built-in
- With professional support
- Sustainabilityand maintenanceguaranteed



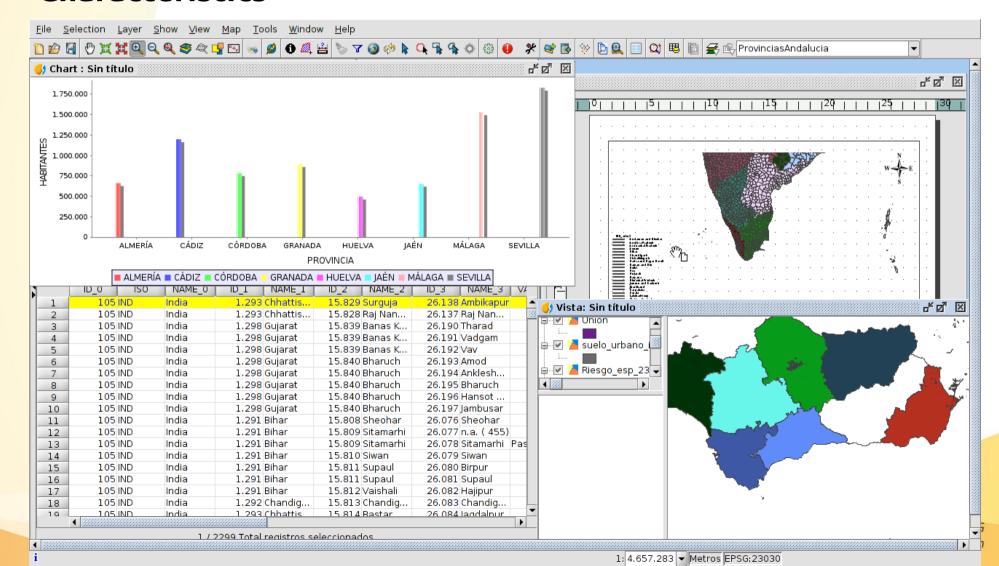


Desktop Geographic Information System

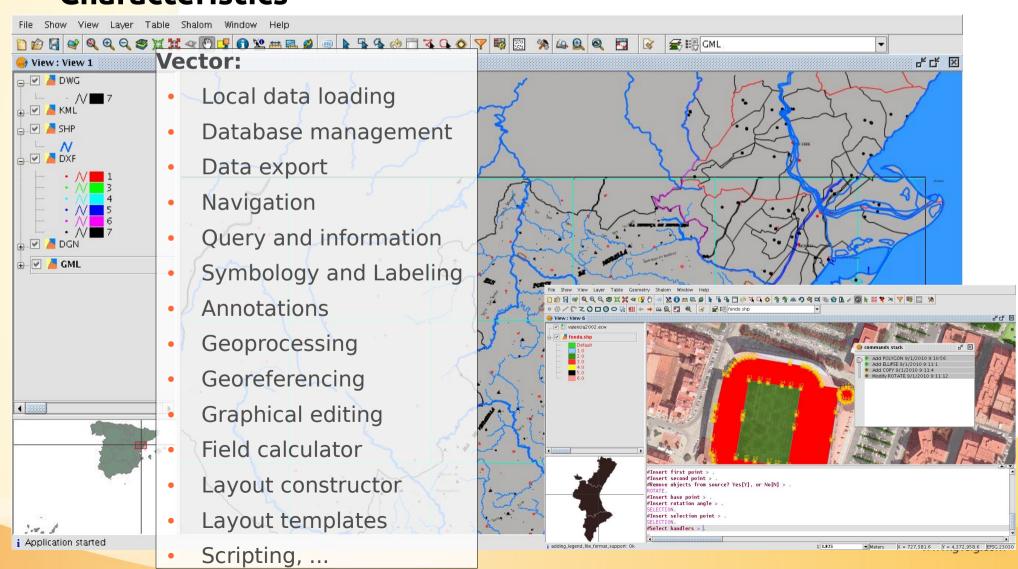


- Multi-platform: Linux, Windows, Mac OS X
- Multi-language
- Simple interface: user friendly
- Customizable
- GIS + SDI client (Spatial Data Infrastructure / OGC standards)



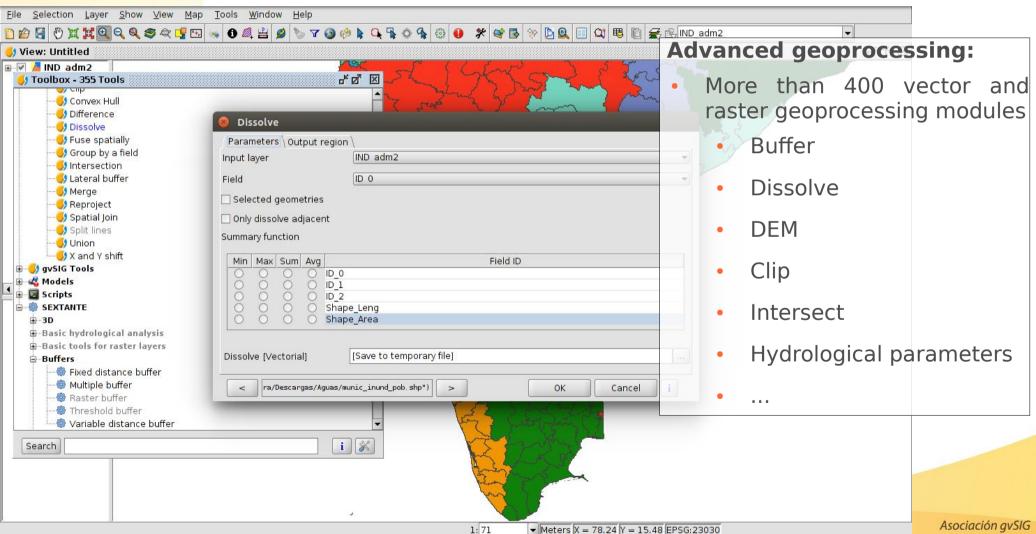






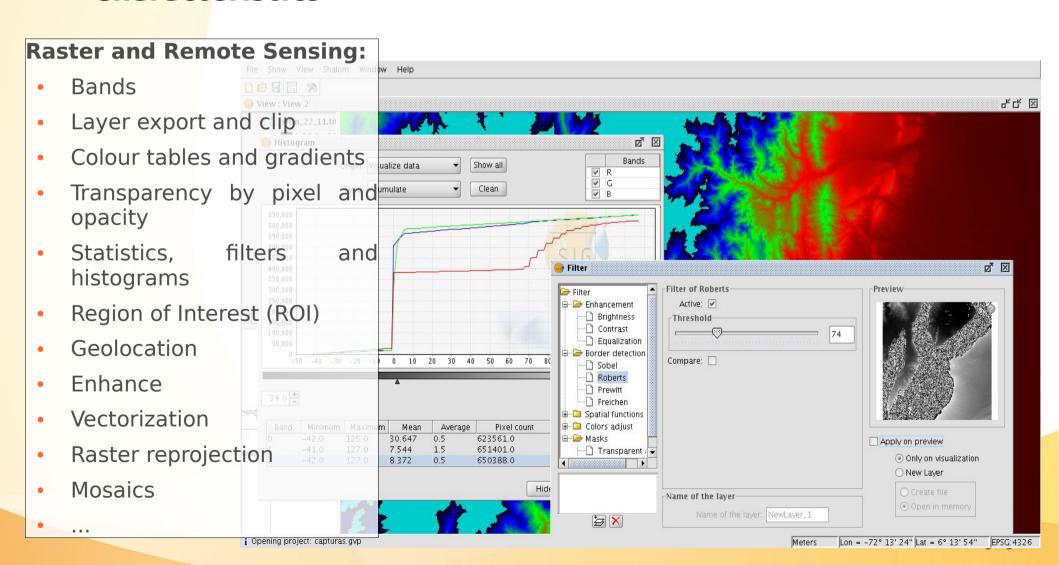


Characteristics

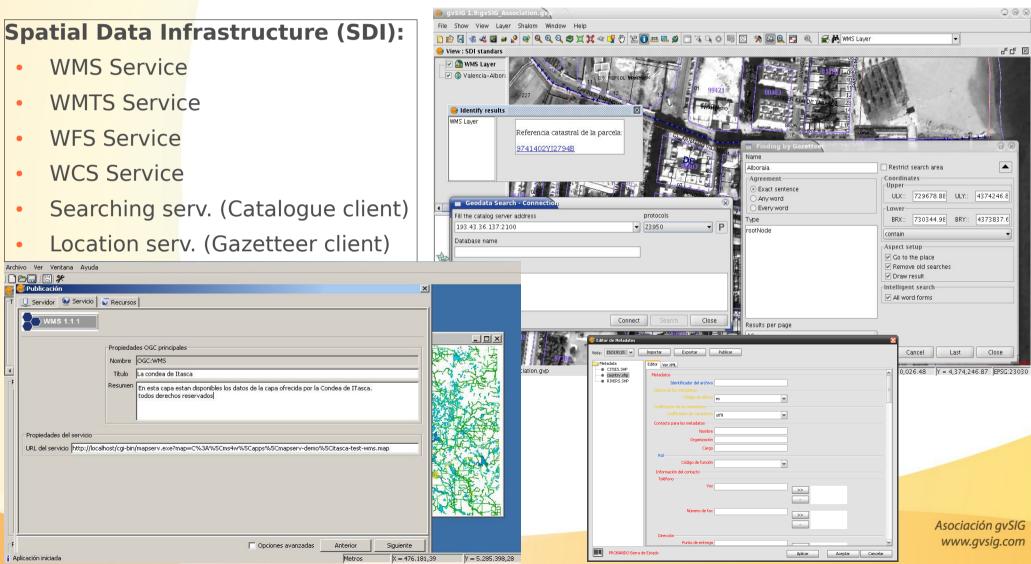


www.gvsig.com

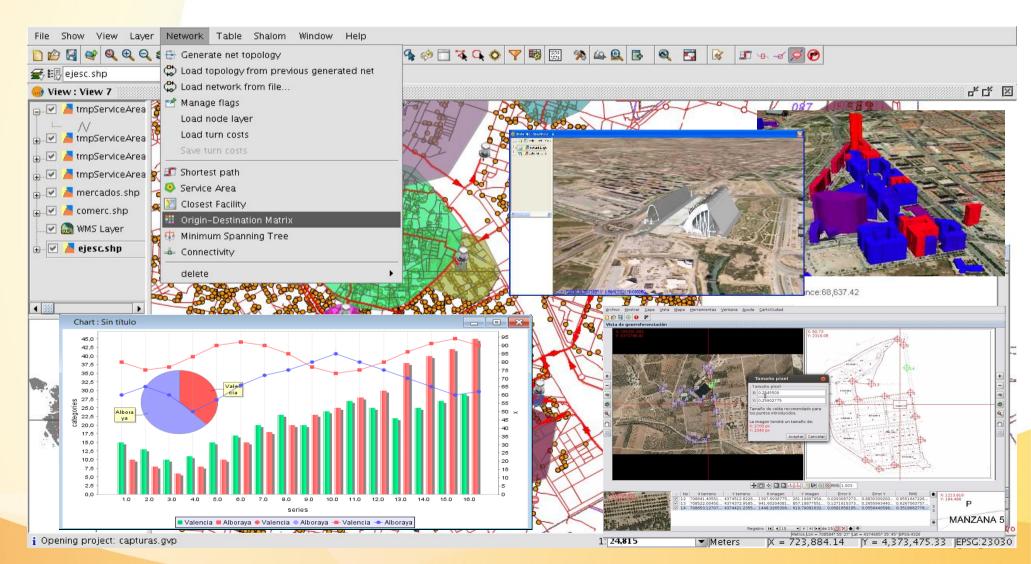








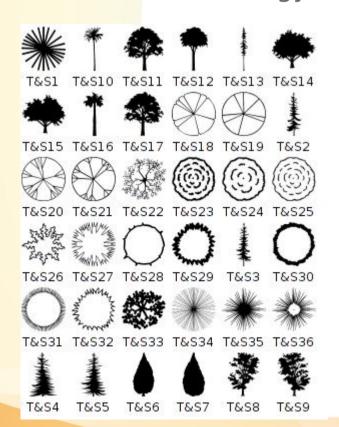


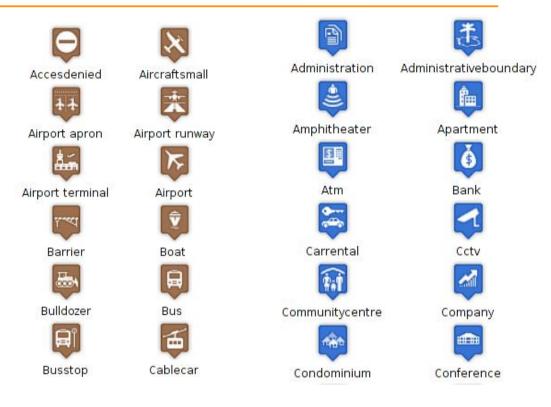




Symbols:

Symbols for Forestry, Criminology, Infrastructures, Tourism, Health, Geology...









Church









Building

Buddhist temple2

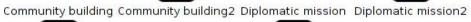






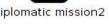




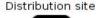




Church2













DEMO gvSIG Desktop





Geographic Information System for mobile devices

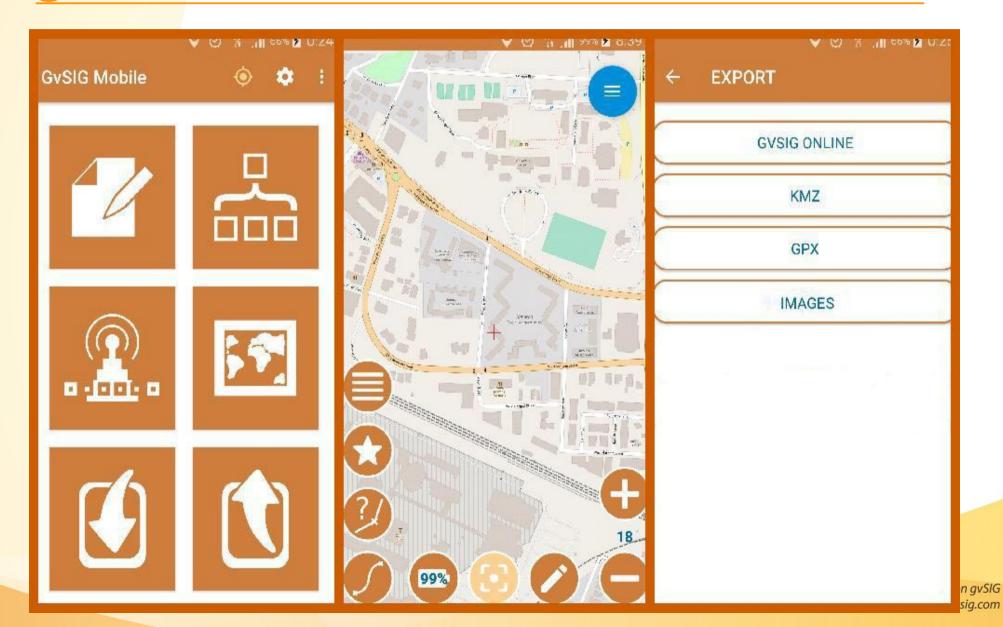


Characteristics

- gvSIG Mobile is a GIS complement to be used for field data gathering.
- Recommended for inventory, census, reviews, inspections...
- Symbology and Labeling
- Editing tools.
- GPS Support.
- Customized forms.
- SDI/OGC access: WMS, OSM...
- Measurement and information.

•

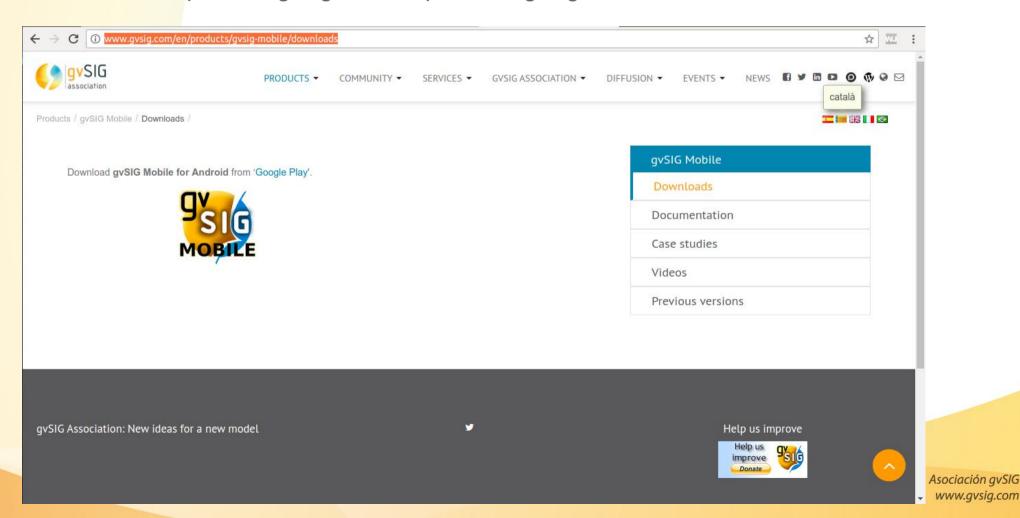






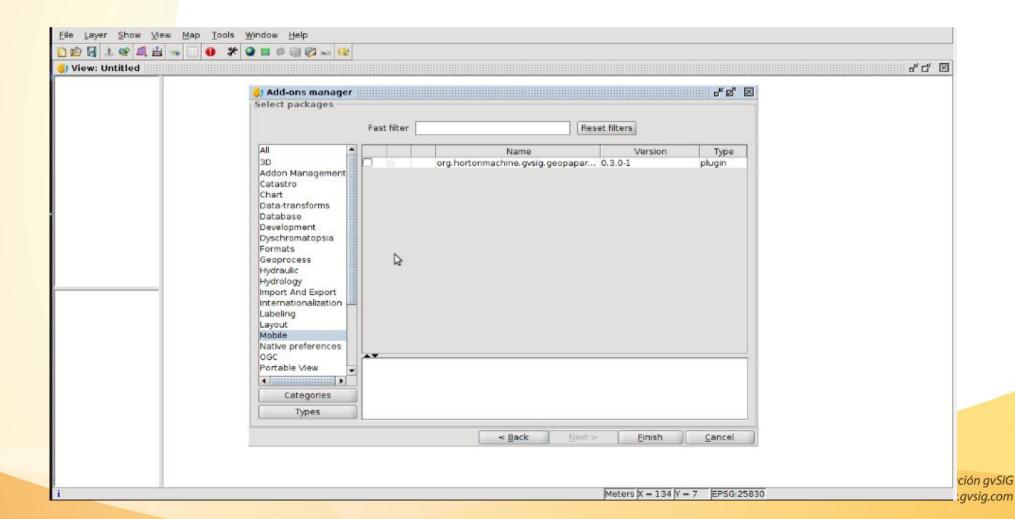
Downloads/Installation

http://www.gvsig.com/en/products/gvsig-mobile/downloads



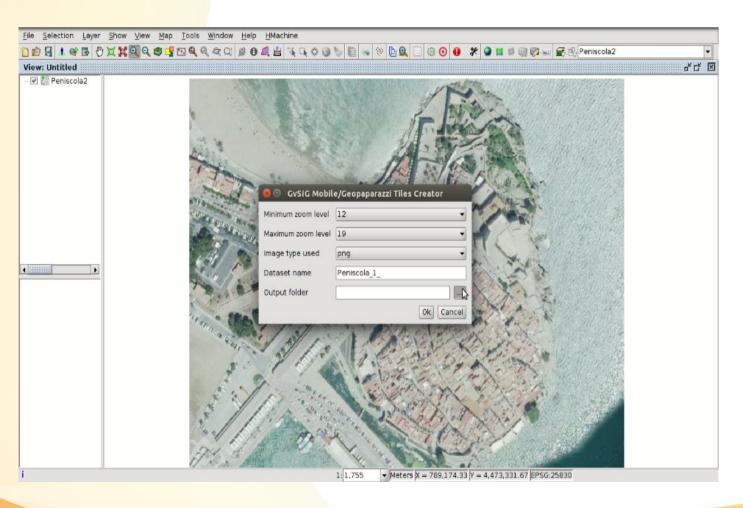


Plugin for gvSIG Mobile and gvSIG Desktop integration





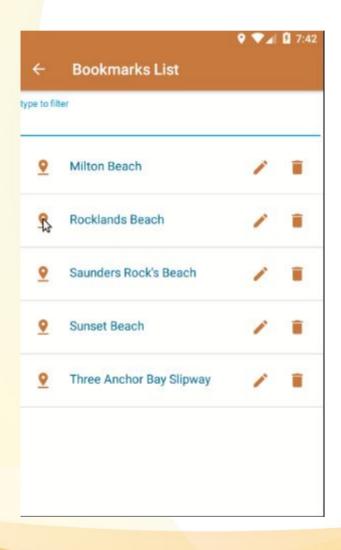
Tiles importing

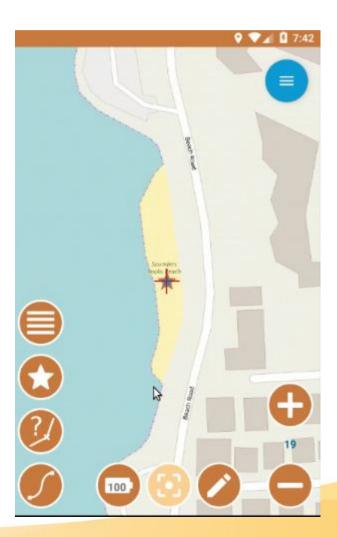






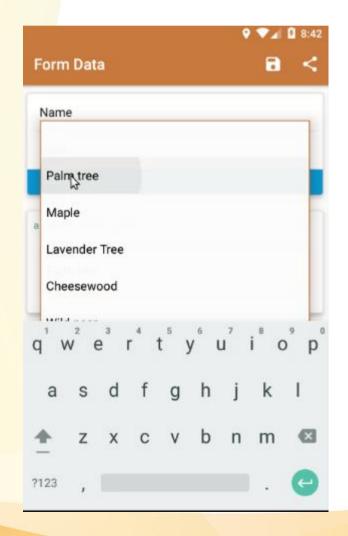
Bookmarks importing

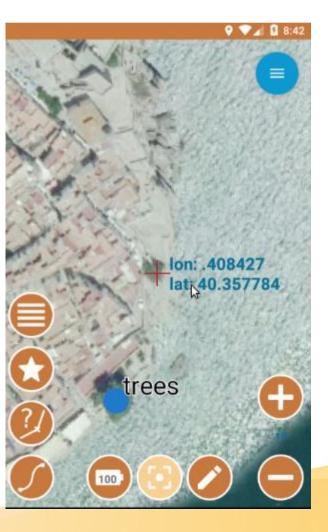






Creation of forms to map elements







Exporting vector data from gvSIG Desktop to gvSIG Mobile (through Spatialite) and editing



		♀ ▽⊿ § 9:00	
← Features	<u>•</u>	0 8	
poi_cape_town			
/storage/emulated/0/Download/ Cape_Town_Pol.sqlite	ŕ	1/1	
name			
Cape Town Station			
type			
pk			
5			
Area:0.00			
Length:60.00			



Loading WMS servers







DEMO gvSIG Mobile





gvSIG Online Platform for Spatial Data Infrastructure implementation

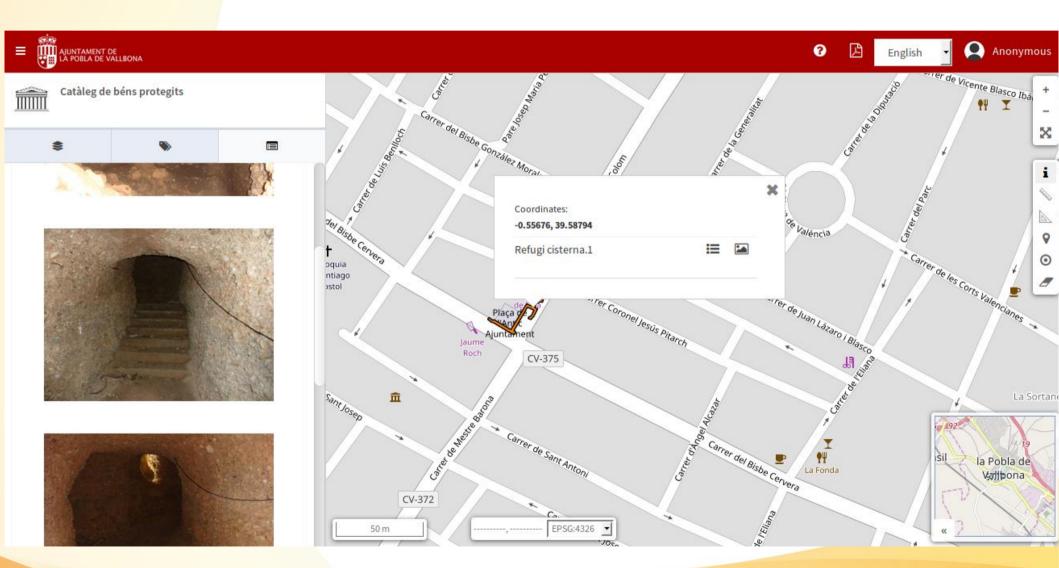


gvSIG Online

- Full platform for Spatial Data Infrastructure (SDI) implementation and open source corporative GIS
- It allows to share geographic information in the cloud and to create maps and 2D and 3D applications easily
- Connected with gvSIG Desktop and gvSIG Mobile

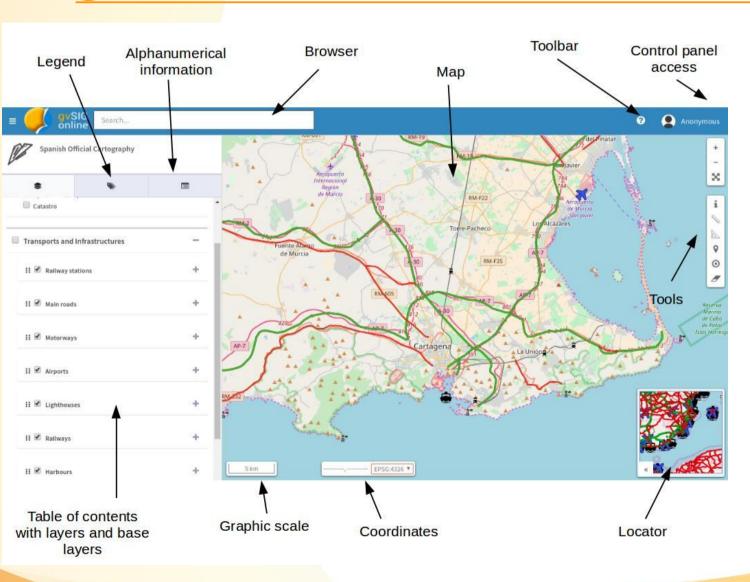


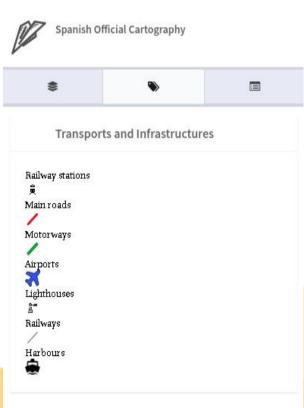
gvSIG Online





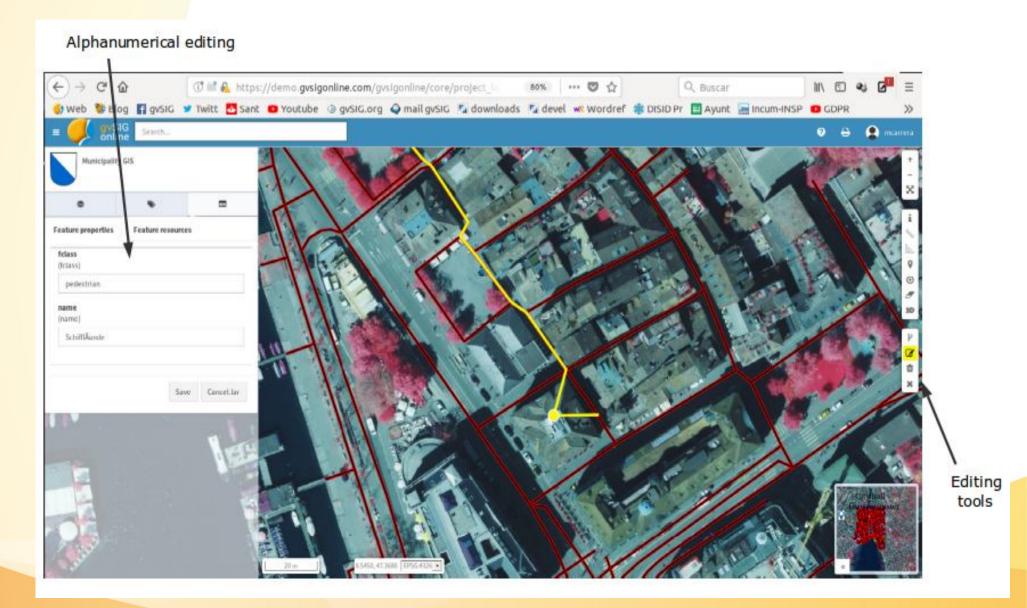
gvSIG Online







gvSIG Online





DEMO gvSIG Online



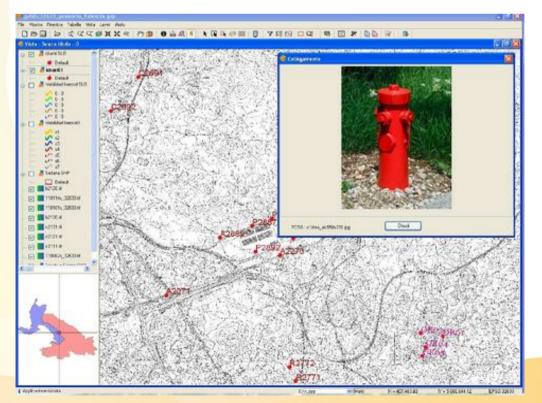


gvSIG Case studies Successful gvSIG case studies



gvSIG in forestry, firefighting and environmental management in the provinces of Trieste, Gorizia (Italy) and Sežana (Slovenia)

The administrations of both countries (Italy and Slovenia) collaborated and shared data and knowledge on gvSIG. They used gvSIG Desktop for office work and gvSIG Mobile for field work.

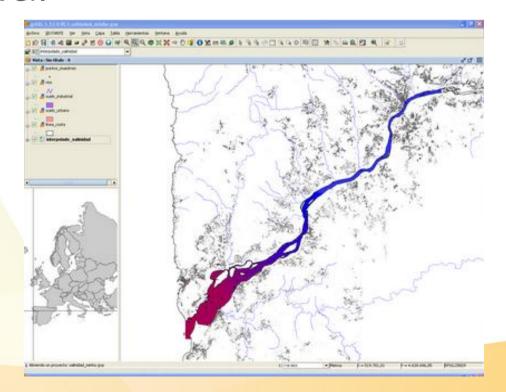






Analysis of contaminants and salinity in the Minhoriver for the European Project

Determination of the spatial distribution of different physicochemical parameters (salinity, phosphate, ammonium, nitrate and nitrite), at both at low and high tide, at the estuary of the Minho river.

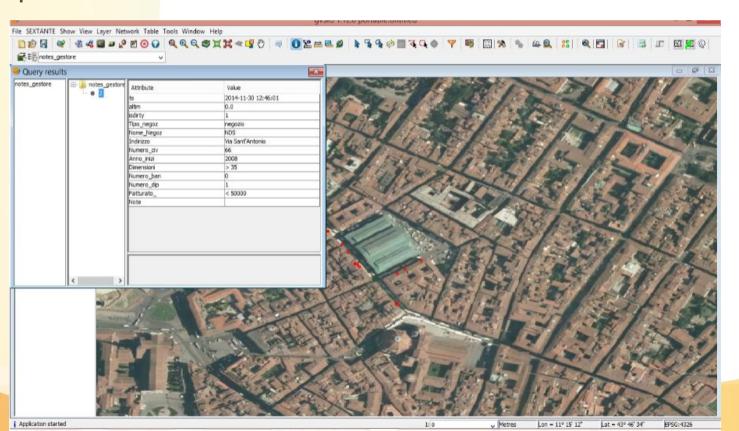






Analysis of the value chain for leather products in San Lorenzo street market

Collecting field quantitative and qualitative data in order to produce a detailed census of commercial activities

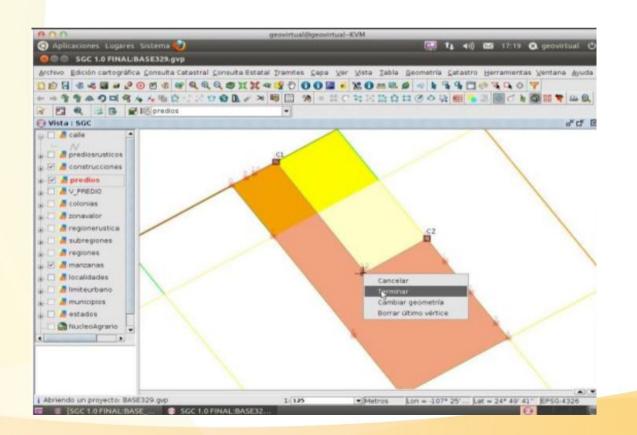






gvSIG, a unified application to the Mexican municipal cadastre

Cadastre modernization and taxes collection management.

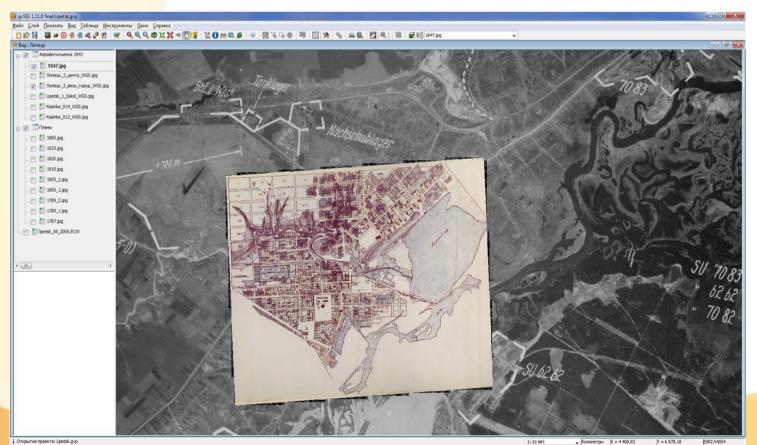






Use of gvSIG for Protection of Cultural Heritage in the Lipetsk Region, Russian Federation

Preparing a spatial information for the passport of a cultural heritage object and the land survey documentation

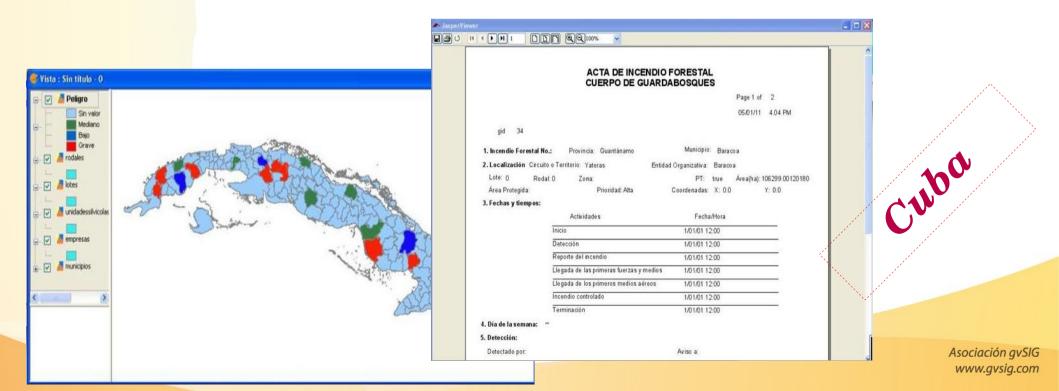






gvSIG for Forestry Management: SIFOMAP 3.0

Customized applications that allow to manage, administrate, update... the forestry heritage information. It's composed of different modules, like Forestry Management Planning, Sustainable Development Indicator, Forest Fire...

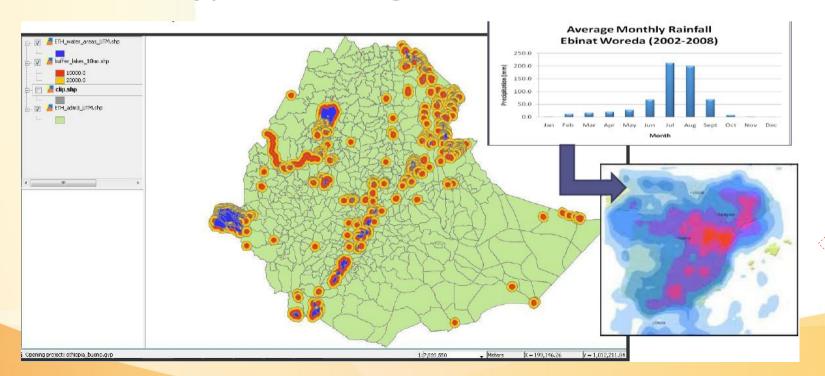




Spatial Data Infrastructures in developing countries: The climate change problem in Ebinat (Ethiopia)

Management of the geographical information related to a real problem: drought and climate change.

Analysis of the climatic conditions at the region and their relation with the type of farming.



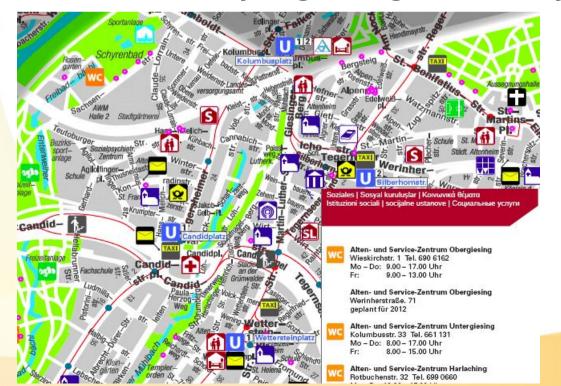
Ethiopia



gySIG as a GIS tool for creating maps for senior citizens published by the City of Munich

gvSIG is used as a platform for creating the basic map information and a pre-press version of the map.

A newly created, universally usable symbol is set to meet the requirements of the elderly regarding readability.

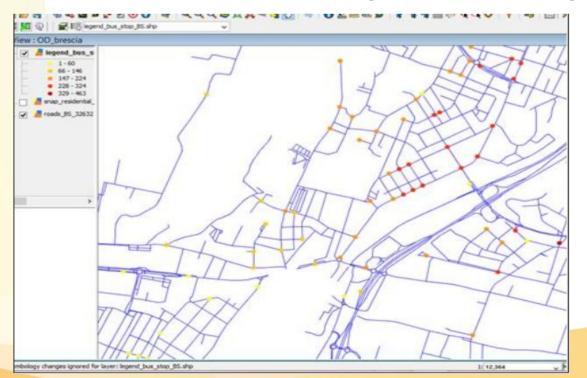






Assessing urban accessibility in the city of Brescia: the impact of public transport infrastructures

Identifying where new services should be located to lower the gap between different areas and reduce the car traffic inside the city. Evaluating the impact of new public transport infrastructures, such as tramways and subways.







4. Case studies

Other related case studies

- Building business applications above gvSIG: a case study with a bus network management GIS for the Algerian Transport Minister (Algeria)
- Cohabitation Maps of the Local Police of Castellón City (Spain)
- Use of gvSIG in identifying strategic locations for the installation of a clothes shop (Brazil)
- Geomatics in the petroleum sector: Progress in the PDVSA SDI. Exploration using free technologies (Venezuela)
- gvSIG Roads Maintenance and conservation of roads management using software with cartographic information integrated (Spain)

•



The New York Natural Heritage Program

Mapping invasive species in the iMapInvasives program

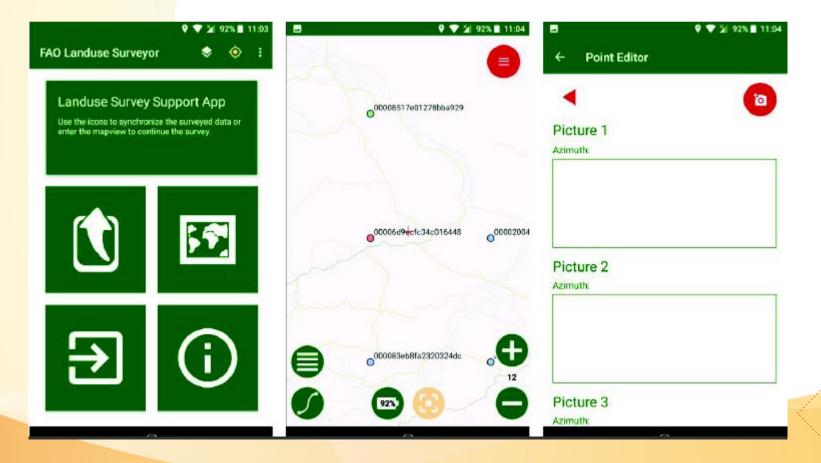


15P



FAO landuse survey in Zimbabwe

Creation of a landuse survey crowdsource application

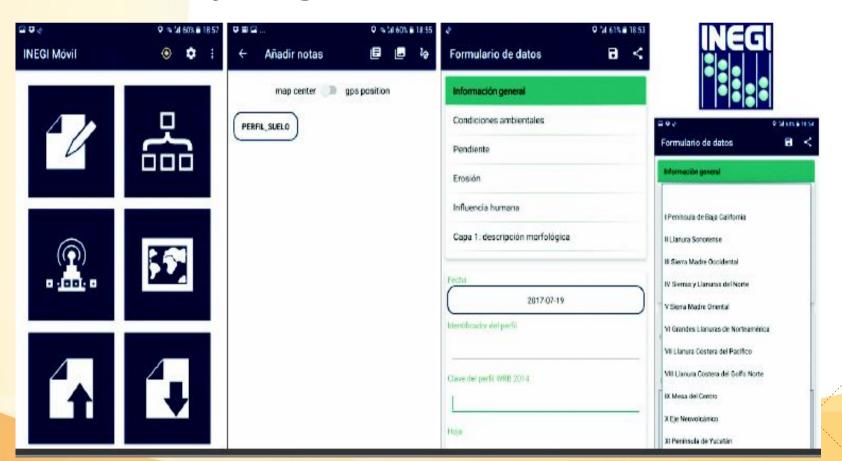


Asociación gvSIG www.gvsig.com



INEGI: field data collection

Geological and hydraulics surveys at the Instituto Nacional de Estadística y Geografía (INEGI) of Mexico.

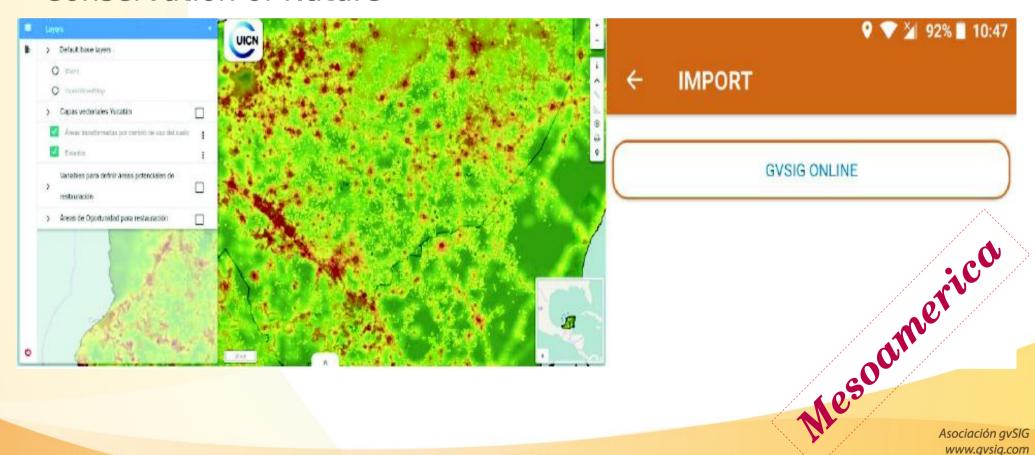


Asociación gvSIG www.gvsig.com



International Union for Conservation (IUCN) of Nature SDI

Spatial Data Infrastructure of the International Union for Conservation of Nature

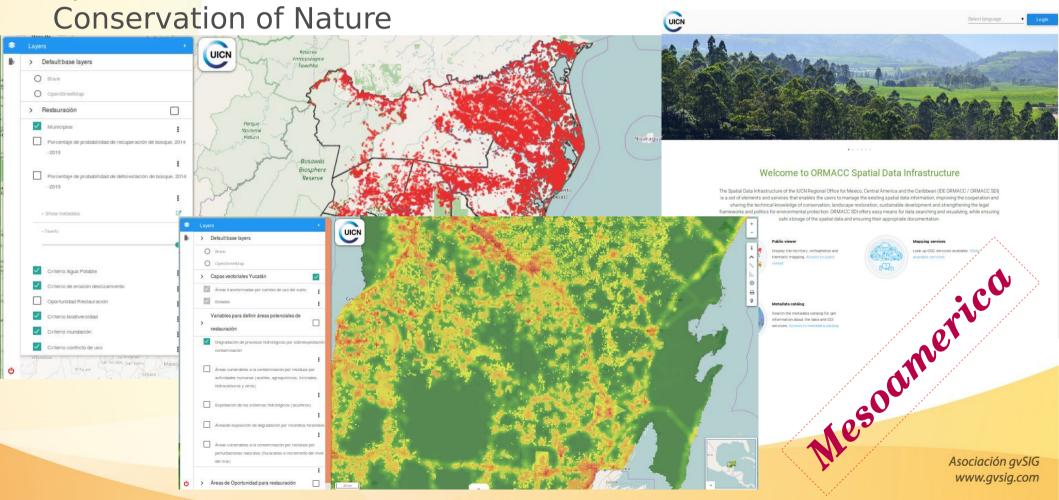




Case studies: gvSIG Online

International Union for Conservation (IUCN) of Nature SDI

Spatial Data Infrastructure of the International Union for

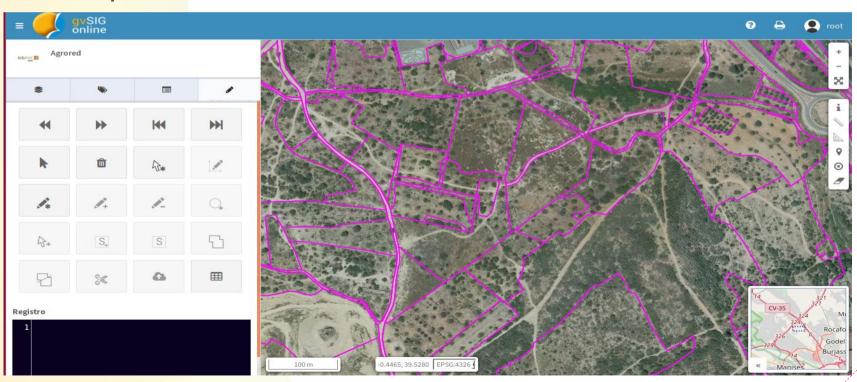




Case studies: gvSIG Online

Agriculture Ministry of Valencian Regional Government

Spatial Data Infrastructure to manage subsidies given by European Union



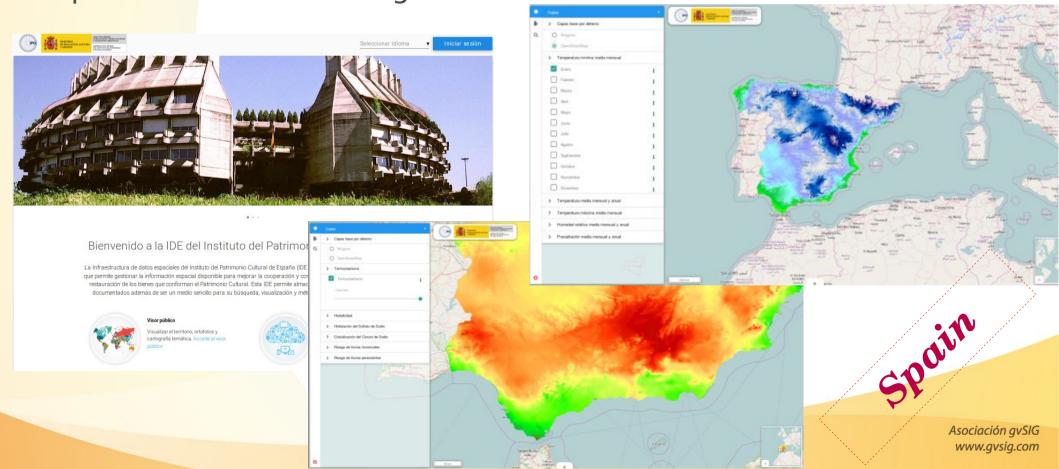
Spain



Case studies: gvSIG Online

Pre-emptive conservation SDI at IPCE

Spatial Data Infrastructure for pre-emptive conservation at Spanish Cultural Heritage Institute





Free Training - gvSIG Desktop

Learning gvSIG in 30 minutes:

https://blog.gvsig.org/2017/05/23/learning-gvsig-in-30-minutes/

Learning GIS for free:

https://blog.gvsig.org/2017/08/01/learn-gis-for-free-the-complete-course/

GIS applied to Municipality Management:

https://blog.gvsig.org/2018/03/12/gis-applied-to-municipality-management-certification-and-links-to-the-complete-course/

GIS applied to Crime mapping:

https://blog.gvsig.org/2018/05/16/certification-of-the-free-course-about-crime-mapping-gis-for-criminology/

 Free course about Geographic Information Systems applied to archaeology:

https://blog.gvsig.org/2019/02/14/free-course-about-geographic-information-systems-applied-to-archaeology-certification-and-links-to-the-complete-course/

"Learning GIS with Game of Thrones" free book:

https://blog.gvsig.org/2017/07/12/learning-gis-with-game-of-thrones-free-book/



Free Training - gvSIG Mobile

How to use gvSIG Mobile:

https://blog.gvsig.org/2018/03/22/how-to-use-gvsig-mobile-open-source-gis-for-field-data-gathering/

Plugin to create forms in an automatic way:

https://blog.gvsig.org/2018/05/08/gvsig-desktop-plugin-to-create-forms-for-field-data-gathering-with-gvsig-mobile/

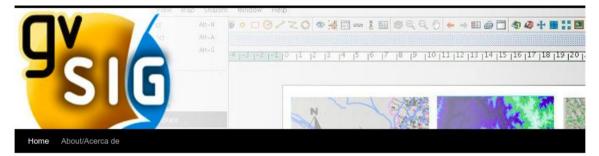


Contact Details

https://blog.gvsig.org

gvSIG blog

gvSIG project blog



blog.gvsig.org





Contact Details



Follow us on https://www.facebook.com/gvSIG/



Follow us on @gvsig



Join our group on https://www.linkedin.com/groups/4478025



Contact us at info@gvsig.com













gvSIG Suite: a complete catalog of open source software solutions for geomatics

Thanks!

Mario Carrera gvSIG Association mcarrera@gvsig.com