

# Introduction to gvSIG project

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## gvSIG Festival

*All about gvSIG Desktop...*

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***2. gvSIG's Community***

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***4. Technical demos***

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# 1. What's gvSIG

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gvSIG is an **open source development project** to manage, use and produce geographical information.

gvSIG is a project with a very **active community**, that currently has a worldwide reach.

It is also an investment in a supportive development model, based on the **shared knowledge**. This development model is materialized in the gvSIG Association.

gvSIG invests strongly in the SDI, that are the system suitable for managing the geographical information in any organization.

# 1. What's gvSIG

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## gvSIG Desktop: Characteristics

- gvSIG Desktop is currently one of the most complete GIS.

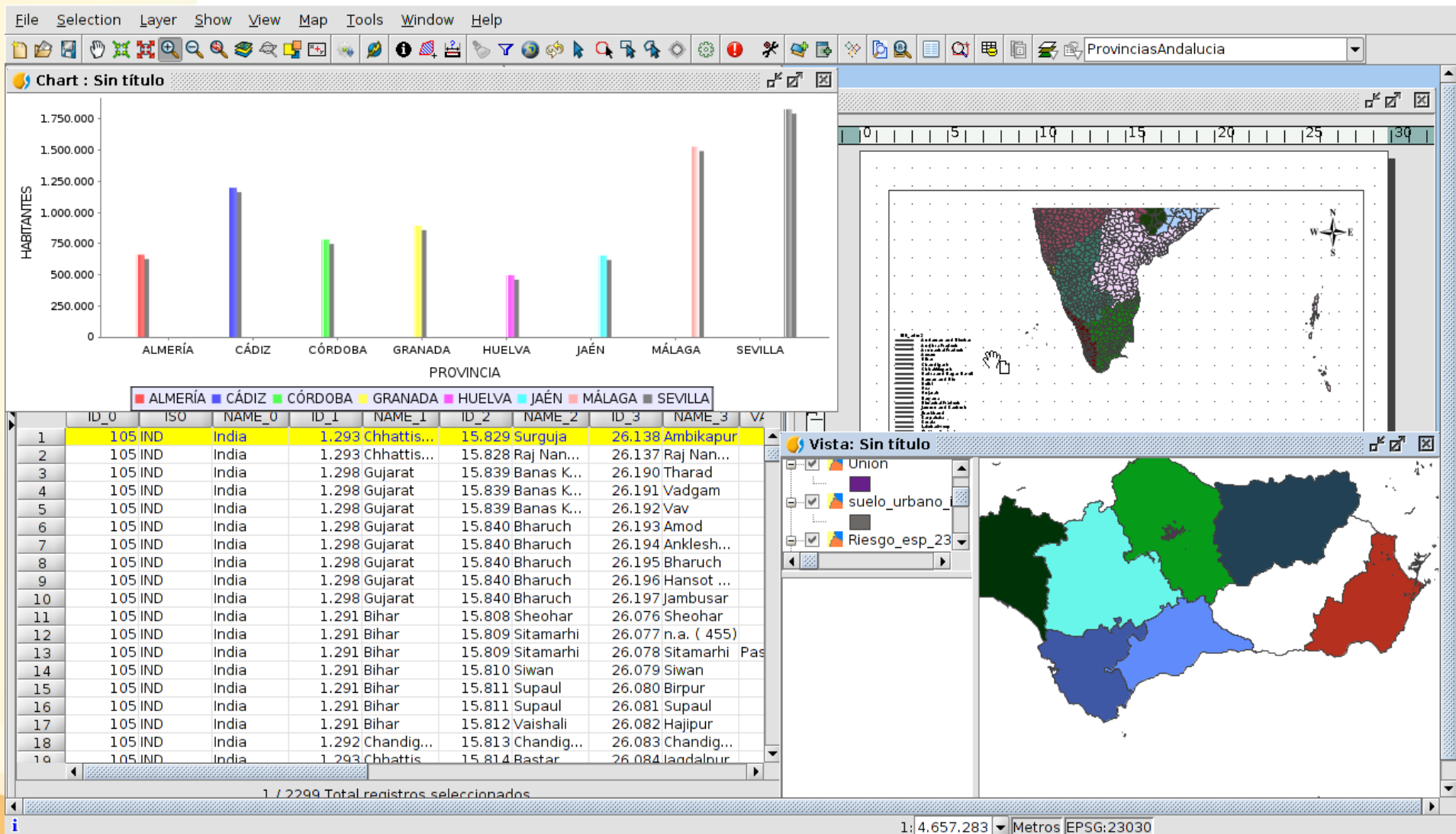
*gvSIG has nice vector data editing functions. Users can easily digitize lines by snapping vertices to existing nodes and generate correct topology. With an easy-to-configure locator map, gvSIG immediately reveals where you are in your dataset. Some GIS professionals believe that **gvSIG is becoming close to replacing ESRI ArcMap software.** (*National Geospatial Technology Center of Excellence*. 2010)*

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



# 1. What's gvSIG

## gvSIG Desktop: Characteristics

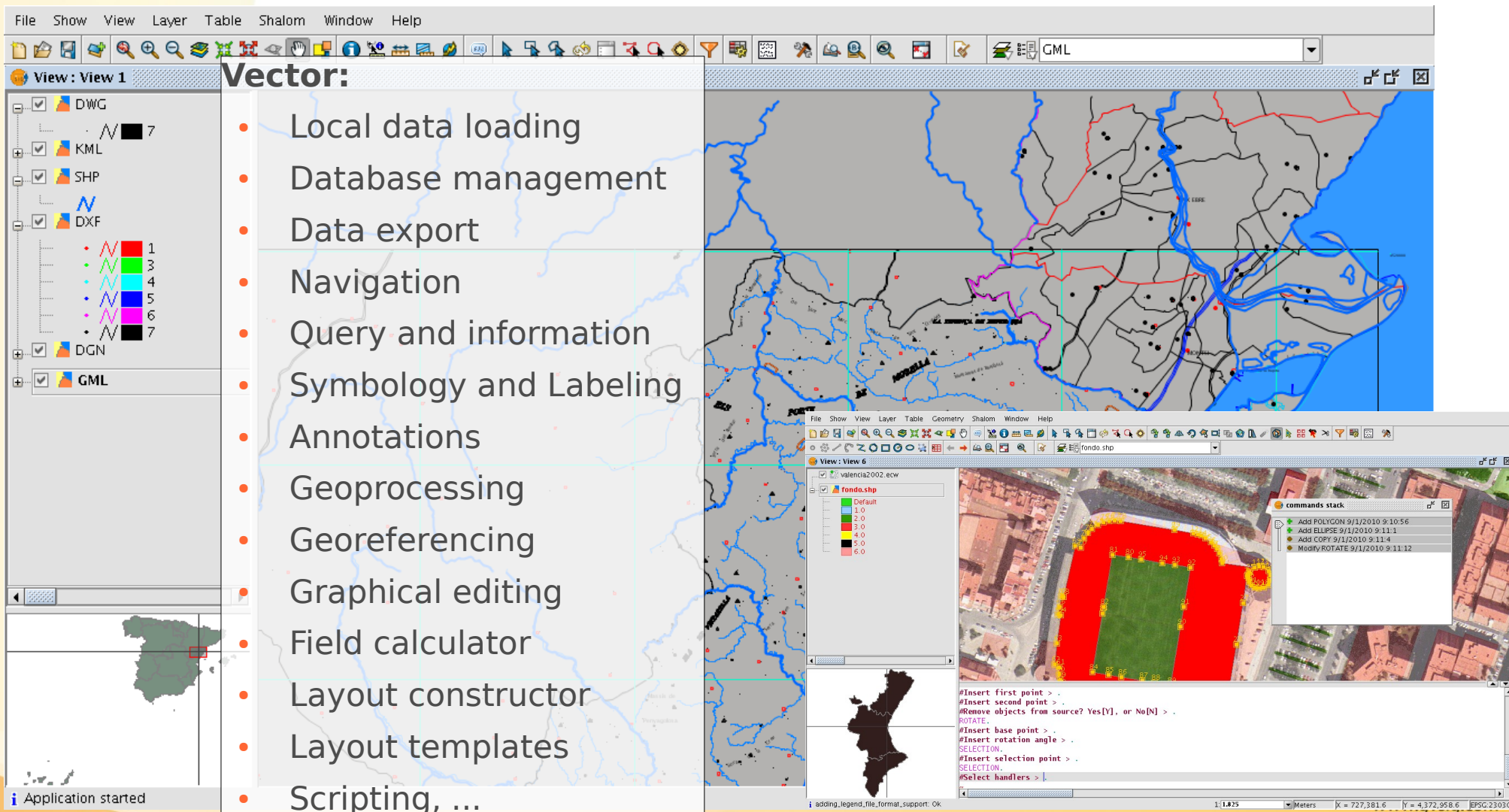


# 1. What's gvSIG

## gvSIG Desktop: Characteristics

**Vector:**

- Local data loading
- Database management
- Data export
- Navigation
- Query and information
- Symbology and Labeling
- Annotations
- Geoprocessing
- Georeferencing
- Graphical editing
- Field calculator
- Layout constructor
- Layout templates
- Scripting, ...



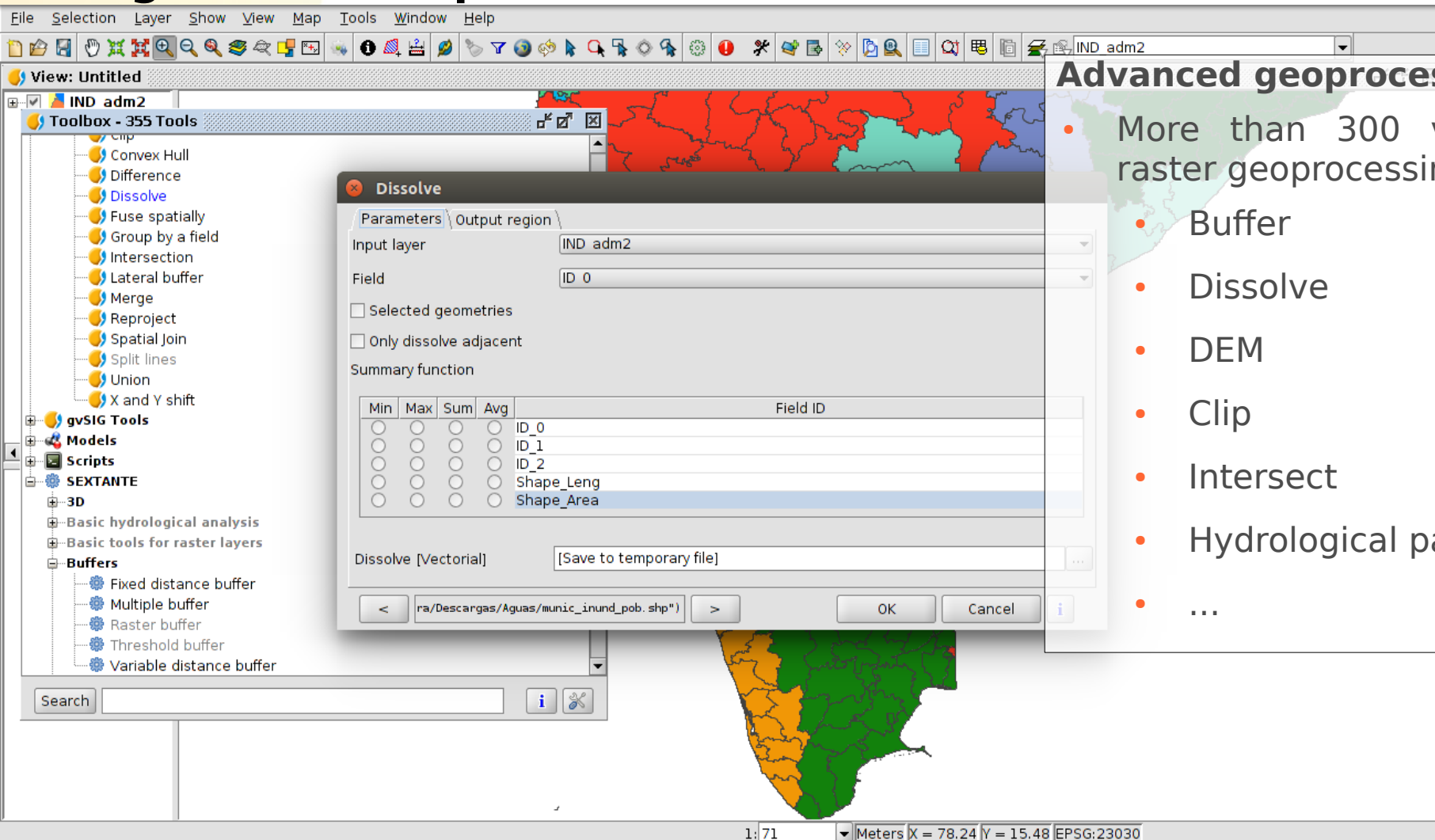
The screenshot displays the gvSIG Desktop application. The main window shows a map of Valencia with various vector layers. The left sidebar contains a layer list with options for DWG, KML, SHP, DXF, DGN, and GML. The right sidebar shows a command stack with a list of recent commands. The bottom status bar indicates the application is started and provides coordinates and scale information.

# 1. What's gvSIG

## gvSIG Desktop: Characteristics

### Advanced geoprocessing:

- More than 300 vector and raster geoprocessing modules
  - Buffer
  - Dissolve
  - DEM
  - Clip
  - Intersect
  - Hydrological parameters
  - ...

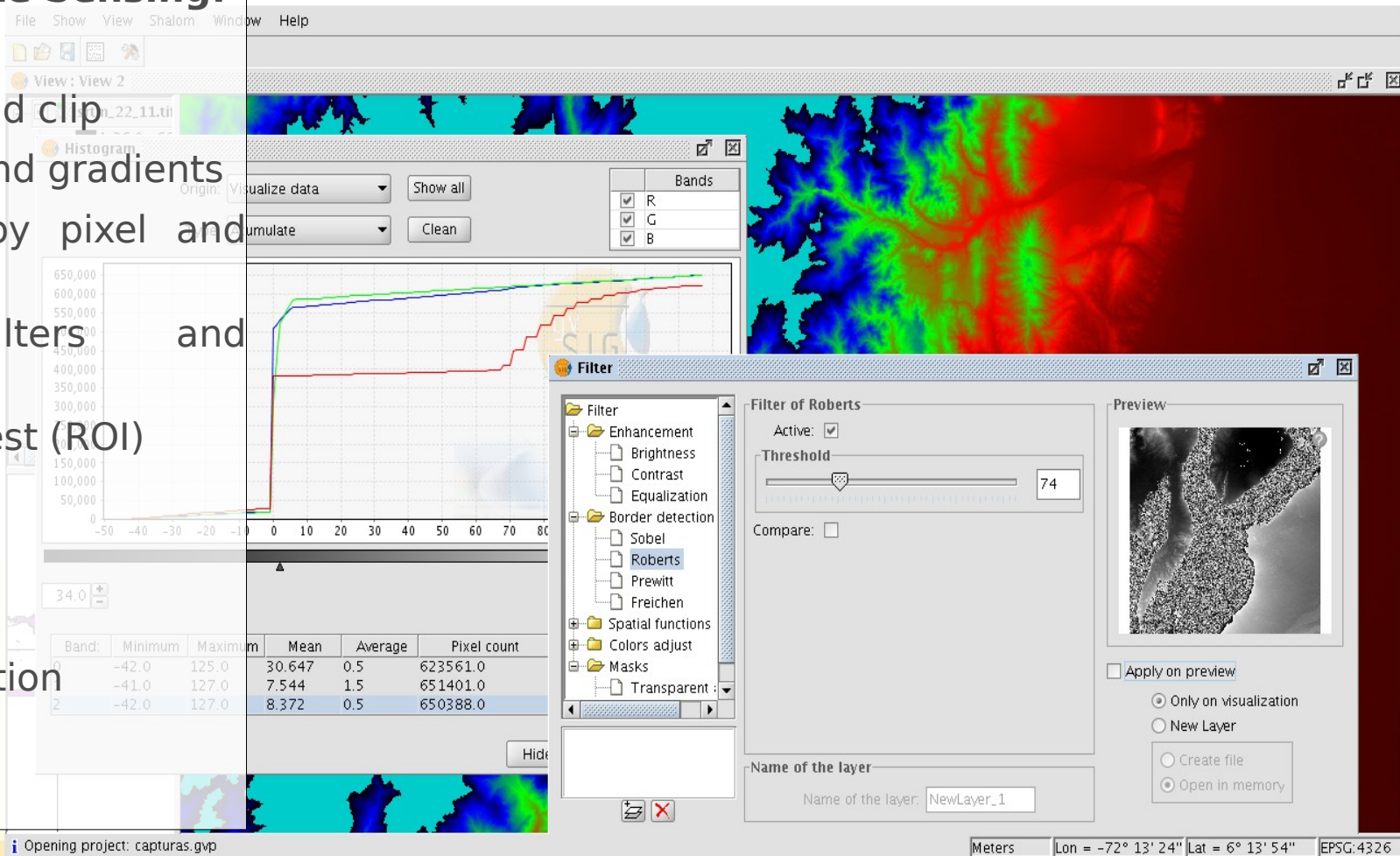


# 1. What's gvSIG

## gvSIG Desktop: Characteristics

### Raster and Remote Sensing:

- Bands
- Layer export and clip
- Colour tables and gradients
- Transparency by pixel and opacity
- Statistics, filters and histograms
- Region of Interest (ROI)
- Geolocation
- Enhance
- Vectorization
- Raster reprojection
- Mosaics
- ...



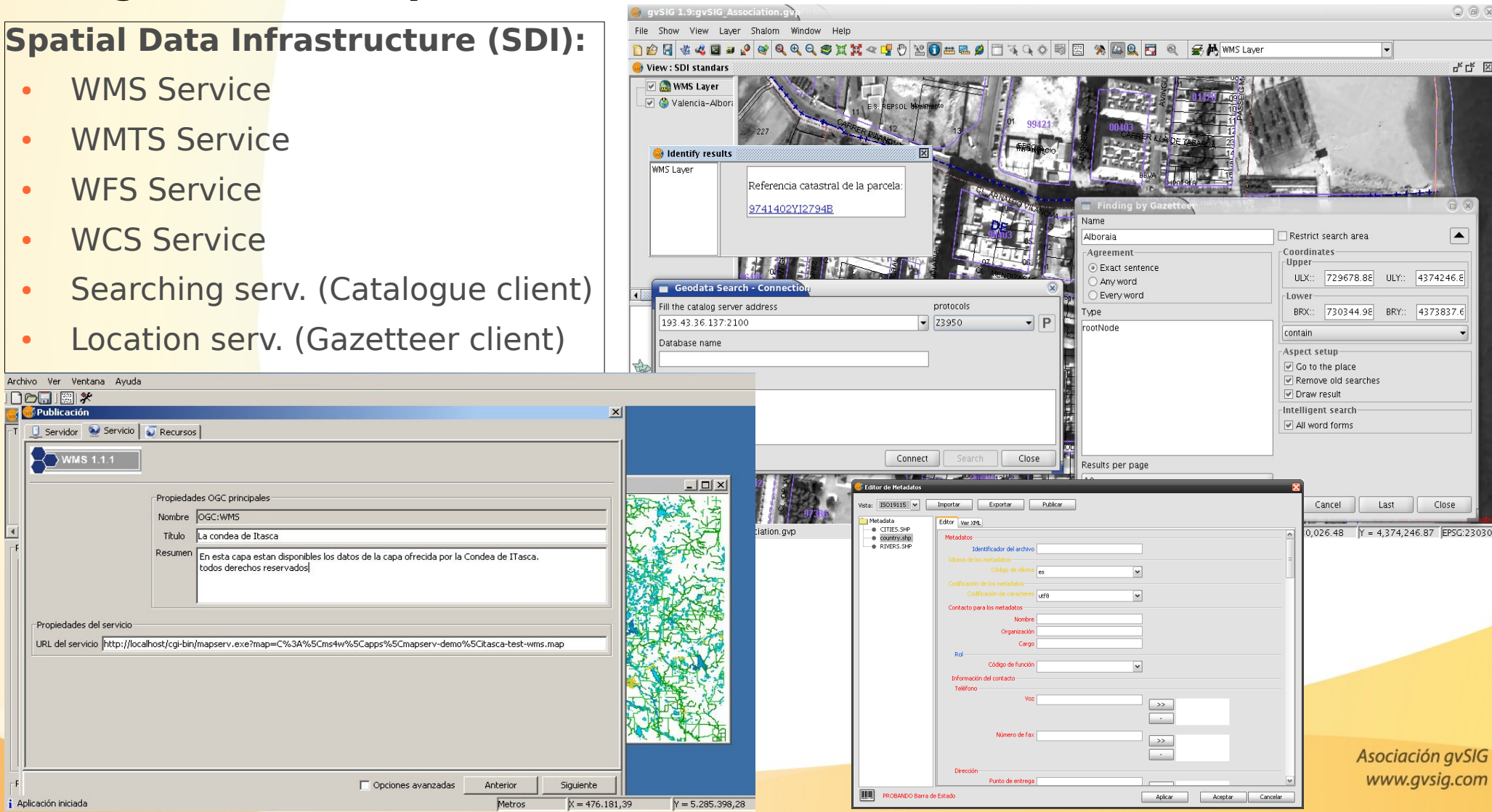


# 1. What's gvSIG

## gvSIG Desktop: Characteristics

### Spatial Data Infrastructure (SDI):

- WMS Service
- WMTS Service
- WFS Service
- WCS Service
- Searching serv. (Catalogue client)
- Location serv. (Gazetteer client)



The screenshot displays the gvSIG 1.9 Desktop interface with several windows and dialogs open:

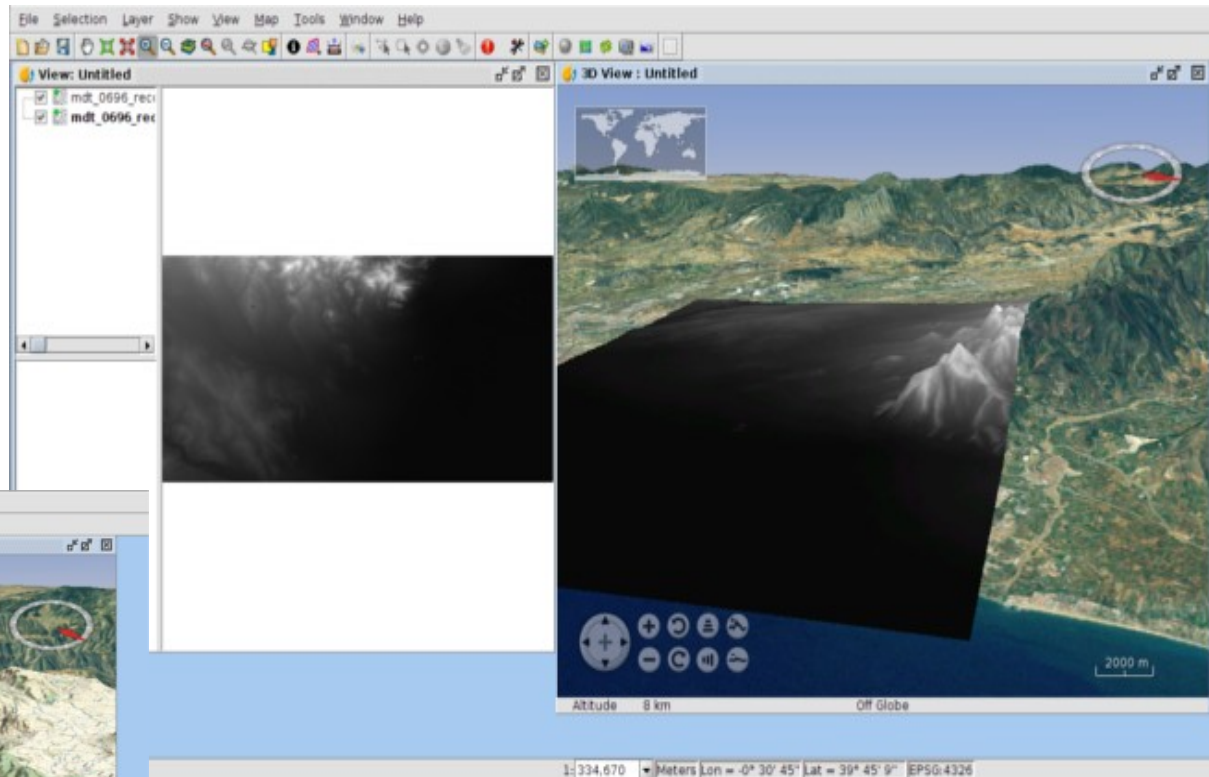
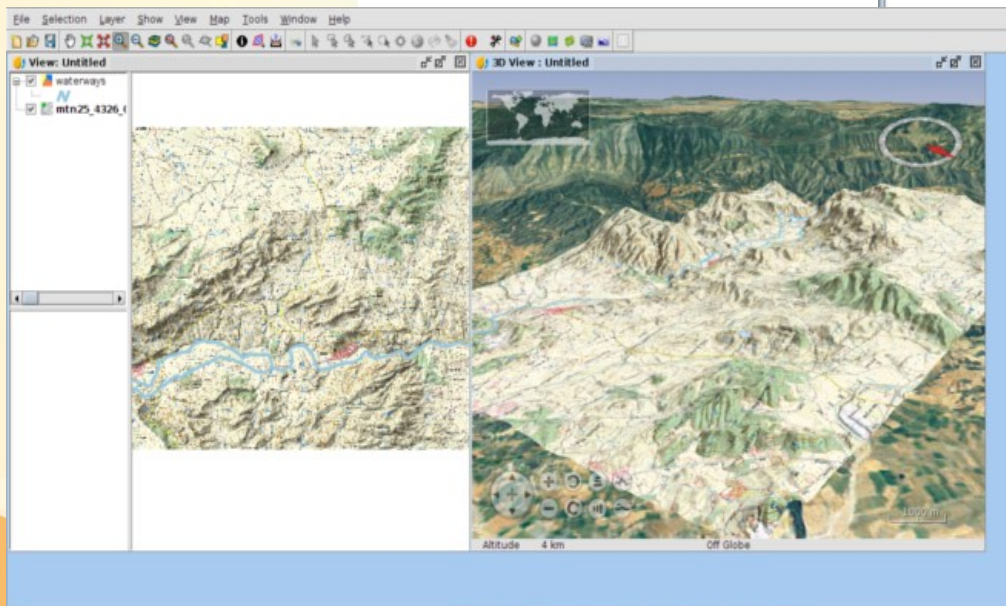
- Main Window:** Shows a map view with a WMS Layer. The status bar at the bottom indicates coordinates: X = 476.181,39 and Y = 5.285,398,28.
- Identify results:** A dialog box showing the 'Referencia catastral de la parcela: 9741402YI2794B'.
- Geodata Search - Connection:** A dialog box for connecting to a catalog server, showing the address '193.43.36.137:2100' and database name.
- Findings by Gazetteer:** A dialog box for searching by name, showing coordinates (ULX: 729678.8E, ULY: 4374246.E) and a search area.
- Editor de Metadatos:** A dialog box for editing metadata, showing fields for 'Identificador del archivo', 'Idioma de los metadatos', 'Codificación de los metadatos', 'Codificación de caracteres', 'Contacto para los metadatos', 'Rol', 'Información del contacto', 'Teléfono', 'Número de fax', and 'Dirección'.
- Publicación:** A window showing the 'WMS 1.1.1' service properties, including the 'URL del servicio' and 'Propiedades del servicio'.

# 1. What's gvSIG

## gvSIG Desktop: Characteristics

### 3D View

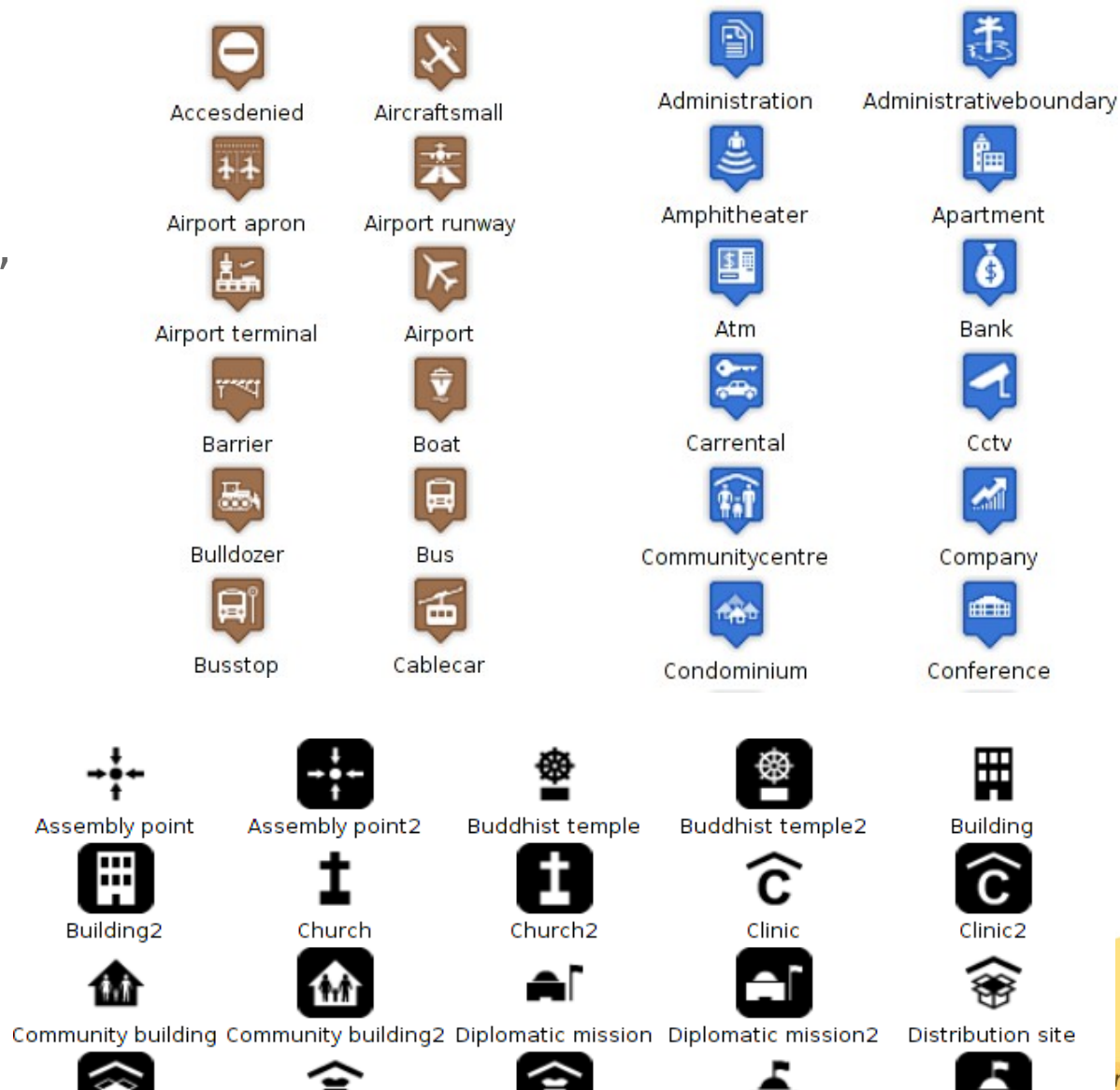
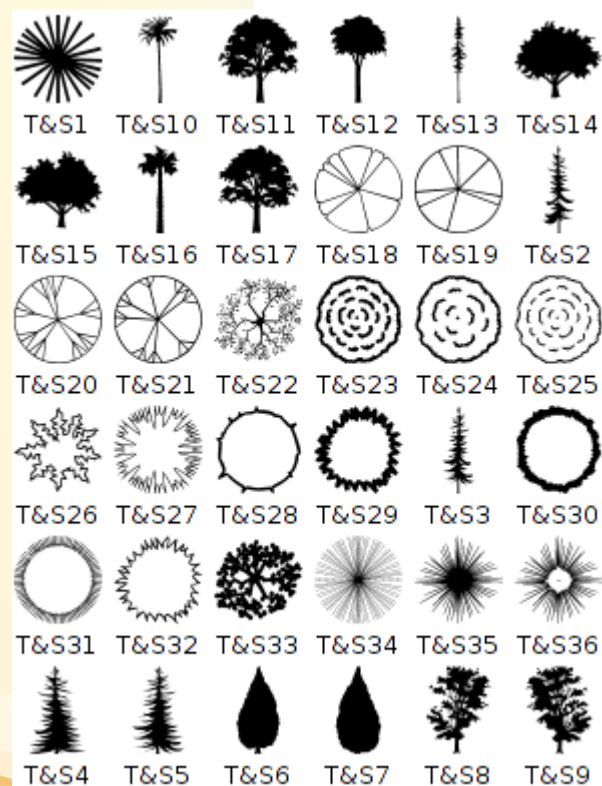
- Rasterization of vector layers
- Load raster layer
- Upload digital terrain models
- Synchronize changes
- Frame Sync
- Full Screen



# 1. What's gvSIG

## Symbols:

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

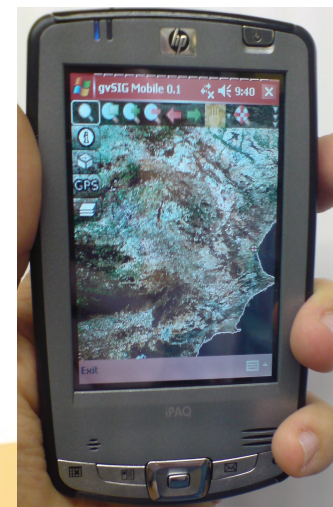




# 1. What's gvSIG

## gvSIG Mobile: Characteristics

- gvSIG Mobile is a GIS complement to be used on field work.
- Main characteristics:
  - Display: several formats, CRS management
  - Symbology and Labeling
  - GPS Support: manual and automatic
  - Editing tools
  - Selection and searching
  - SDI/OGC access: WMS, WFS...
  - Measurement and information
  - ...





# 1. What's gvSIG

## gvSIG Educa: Characteristics

- 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.
- gvSIG Educa provides educators with a tool that helps students to analyze and understand space, and which can be adapted to different levels or education systems.

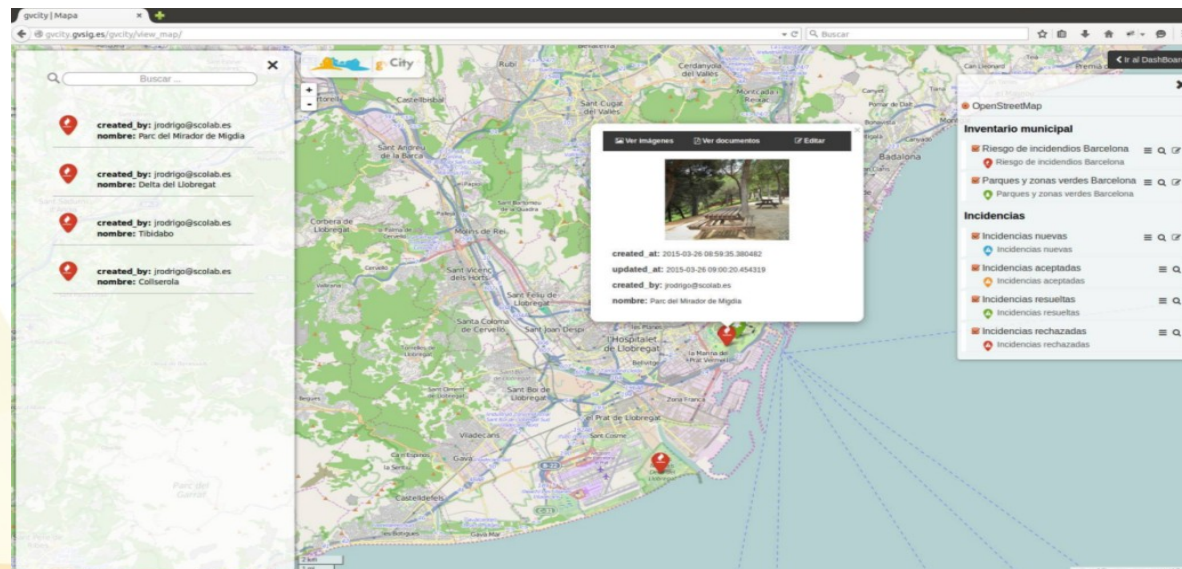


***"If I can't picture it, I can't understand it (A. Einstein)"***

# 1. What's gvSIG

## gvSIG Online: Characteristics

- gvSIG Online is a solution for implementing Spatial Data Infrastructures, using open source software and reducing implementation costs.
- It allows to share geographic information at the cloud, creating maps and applications in an easy way: Databases, geoportals, mobile app, Desktop GIS...



# 1. What's gvSIG

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## **What are we working on?**

- Changes in architecture and installer:
  - GDAL
  - New geometry library
  - Java 8 support
  - New installer (for 64 bits)
  - Automatic generator of Debian packages

# 1. What's gvSIG

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## What are we working on?

- PRJ files writing and reading
- New OGR/GDAL: It allows the access to several new formats like MID/MIF of Mapinfo, Geojson, GML (with Cadastre scheme in Spain), CityGML, etc
- R support (library for statistics)
- Dynamical segmentation (Linear Reference System)
- Scripting improvements
- New distributions (Windows 64bits and MAC OS X)
- New editing tools
- ...

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## 2. gvSIG Community



The screenshot shows the gvSIG Association website. The header includes the gvSIG logo and a navigation menu with links: PRODUCTS, COMMUNITY, SERVICES, GVSIG ASSOCIATION, DIFFUSION, EVENTS, and NEWS. The main banner features a satellite map background with the text "gvSIG Association" and "The largest online free geomatics professionals. A new model of development based on knowledge sharing, solidarity and cooperation." A button labeled "Meet our technologies >" is also present. Below the banner, there are four tiles: "Download gvSIG" with the gvSIG Desktop logo, "Training" with an icon of a person at a computer, "Events" with an icon of a person at a presentation, and "Case studies" with an icon of a laurel wreath. A social media icon bar is visible on the right side of the tiles.

[www.gvsig.com](http://www.gvsig.com)



# 1. gvSIG's Community

→ gvSIG Outreach: <http://outreach.gvsig.org>

## gvSIG Outreach

a place to boost the promotion of gvSIG products and community

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## Welcome



### Case studies

Where gvSIG is being used?





# 1. gvSIG's Community

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→ gvSIG Case Studies: <http://outreach.gvsig.org/case-studies>

## Case studies categories

### Cases by sector

- Agriculture, livestock and fisheries
- Archaeology and Heritage
- Defense and Emergencies
- Development cooperation
- Education and training
- Environmental studies
- Health
- Industry and trade
- Infrastructures
- Public administration
- Tourism

### Cases by countries

- Algeria
- Argentina
- Australia
- Bosnia and Herzegovina
- Brazil
- Chile

### Cases by software

- gvSIG Desktop
- gvSIG Mobile
- gvSIG Mini
- Abeille
- AccuGlobe
- AJAX
- Apache
- ArcGIS
- ArcSDE
- AutoCAD
- CatMDEdit
- CSS
- Digital Globe
- Dnrgarmin
- Draftsigth
- Enterprise JavaBeans
- ENVI
- ERDAS
- FME
- FWTools

# 1. gvSIG's Community

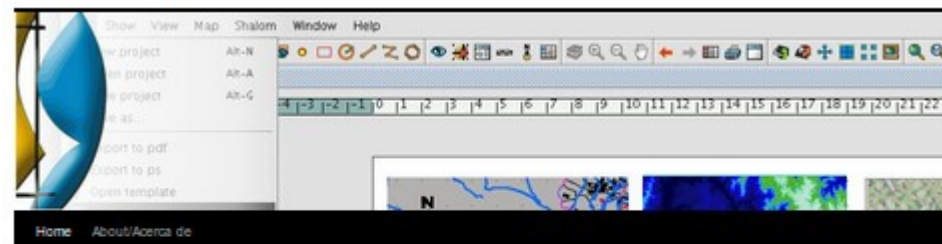
→ gvSIG Blog: <http://blog.gvsig.org/>

→ gvSIG Planet: <http://planet.gvsig.org/>

→ Twitter: [@gvsig](https://twitter.com/gvsig)

→ Facebook, identi.ca

## gvSIG blog



### Names of icons, menus and actions in gvSIG 2.0 (III): standardizations of naming

Posted on 06/08/2013 by danielvich

In the previous article, "[Names of icons, menus and actions in gvSIG 2.0 II: applying in gvSIG](#)", we saw how to define an action and how to use it in menus and buttons in the application. We named the action, the icon, elected an "action-command" and positioned it. Now well, when electing this things it's not in a random way, **we follow some rules we have to** when doing it. First is that **every action have got to be in an entry in main menus in gvSIG**. It should not have an action in a button or contextual menu not represented in menus. In our example, we situated the action in menu entry:

- Tools
  - Symbology
    - Import point symbols

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## 2. gvSIG Association

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The gvSIG project had a **fast evolution from 2004 - 2009:**

- \* Community of **users**
- \* Community of **developers**
- \* Cluster of **SMEs**



A **Collaborative Infrastructure** was needed and a **Professional Structure** to have ***sustainability***

## 2. gvSIG Association

### ***SUSTAINABILITY***

The gvSIG Association was born at 2009.

***Association for the promotion of the FOSS4G and the development of gvSIG.***



[www.gvsig.com](http://www.gvsig.com)

Main goals:



*Promote Free and Open Source Software for Geomatics*

*Development of gvSIG*

## 2. gvSIG Association

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***Association for the promotion of the FOSS4G and the development of gvSIG.*** But, how?

Promoting the development of a ***new business model*** based on cooperation and shared knowledge, creating a wide community net working on gvSIG.

Part of the benefits from these business activities will be back into the gvSIG Project.

## 2. gvSIG Association

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### ***MEMBERSHIP***

***Members*** ---> SMEs full members, take part into Association decisions through the Steering Committee.

<http://www.gvsig.com/association/members>

***Collaborators*** ---> SMEs that want to make business/projects with gvSIG.

<http://www.gvsig.com/association/collaborators>

***Honour members*** ---> Universities, Regional Ministries, R&D Centres, Laboratories, Technological Institutes, promotes the Project (non profit organizations).

<http://www.gvsig.com/association/honour-members>



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## 5. Technical demos

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### ***gvSIG Desktop***

Basic view tools:

<https://www.youtube.com/watch?v=LV0COMK0C7s>

Editing tools:

<https://www.youtube.com/watch?v=BNxJzvhYXkY>

Geoprocessing:

<https://www.youtube.com/watch?v=oz-fNP1GeQs>

Layout:

<https://www.youtube.com/watch?v=kJ0nqESrq80>

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## **Introduction to gvSIG project**

***If you like this type of events, and all the work that  
we do, help us contributing to the project***

**<http://www.gvsig.com/contribution>**

**gvSIG Festival**

***All about gvSIG Desktop...***