gvSIG association

Introduction to **gvSIG** project

Speaker: **Mario Carrera**
Language, Training and Communication Manager. gvSIG Association
mcarrera@gvsig.com

Chat: **Álvaro Anguix**
General Manager. gvSIG Association
aanguix@gvsig.com

gvSIG Festival

All about gvSIG Desktop...

gvSIG association

Contents

1. What's gvSIG

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

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)

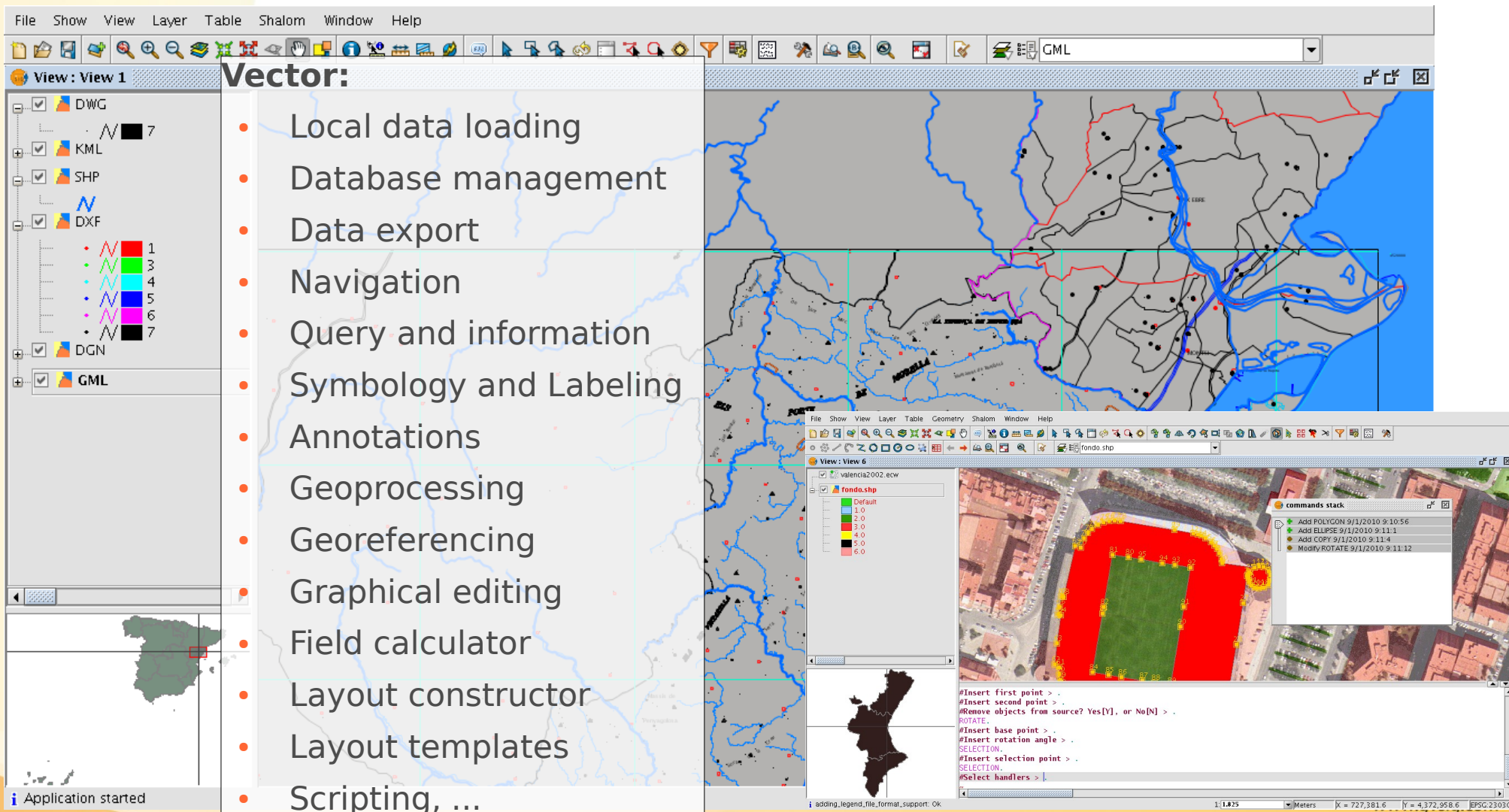# 1. What's gvSIG

gvSIG Desktop: Characteristics
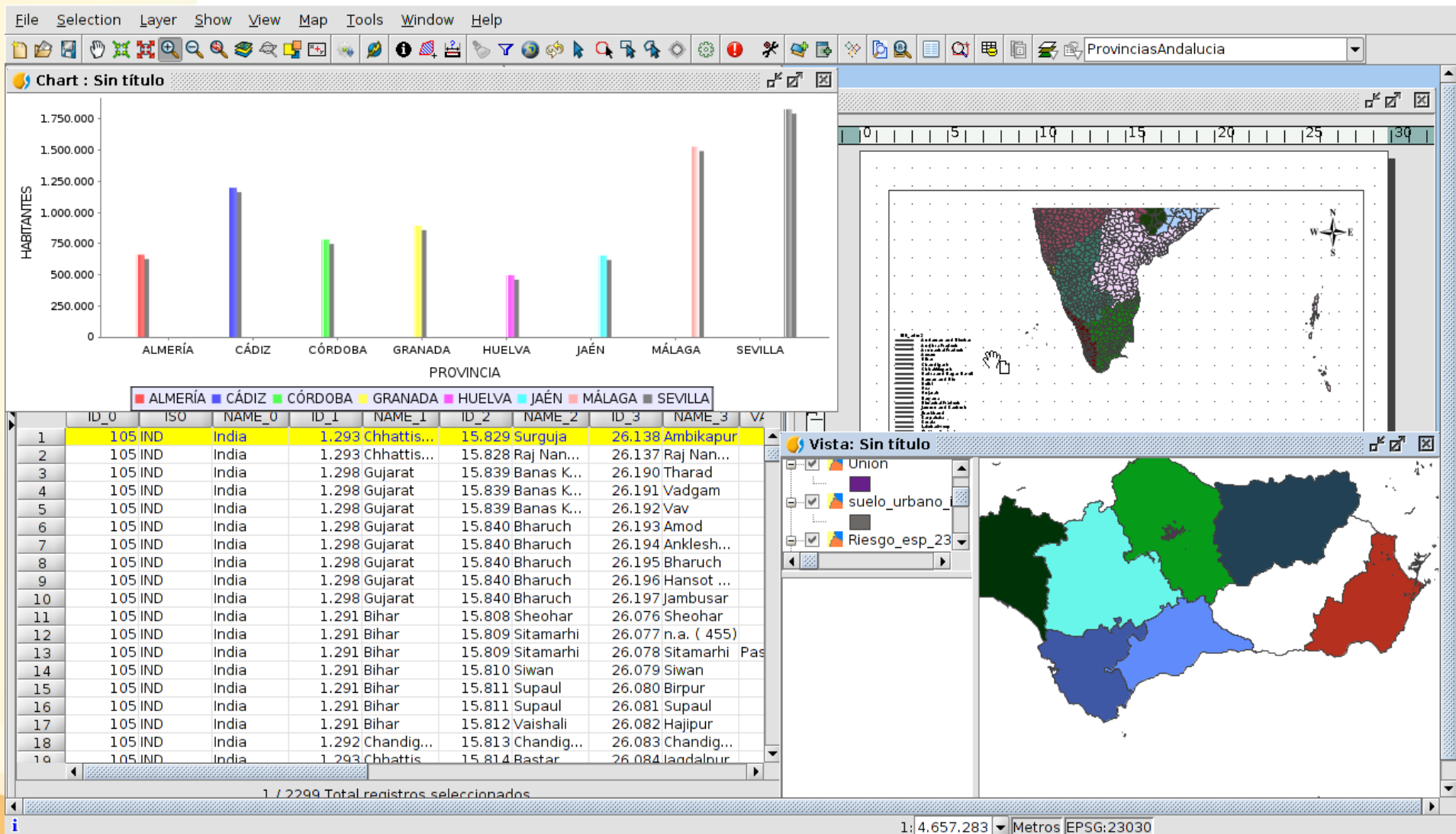
1. What's gvSIG

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
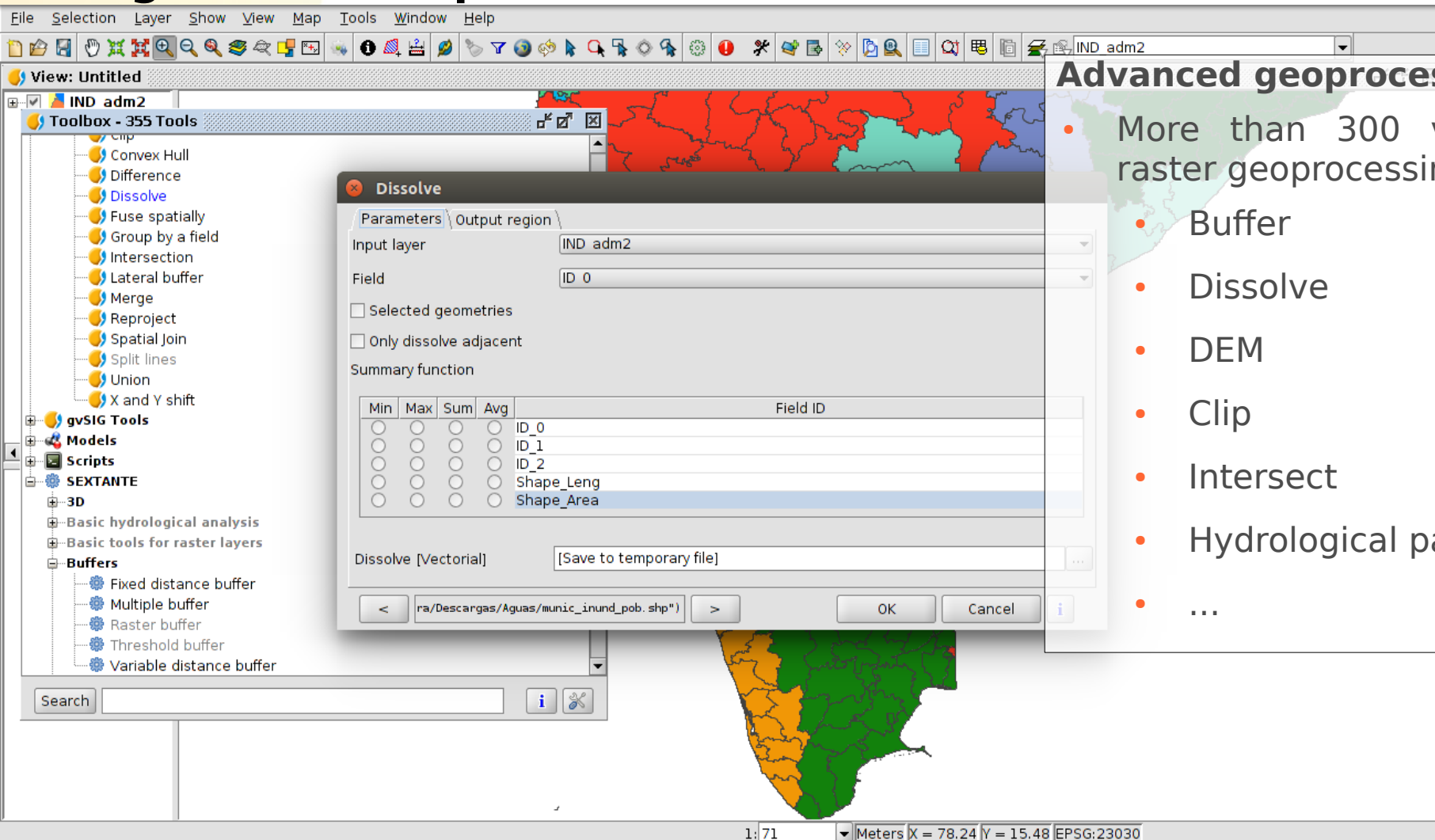- Layout constructor
- Layout templates
- Scripting, ...

1. What's gvSIG

gvSIG Desktop: Characteristics

Advanced geoprocessing:

- More than 300 vector and raster geoprocessing modules

  - Buffer

  - Dissolve

  - DEM

  - Clip

  - Intersect
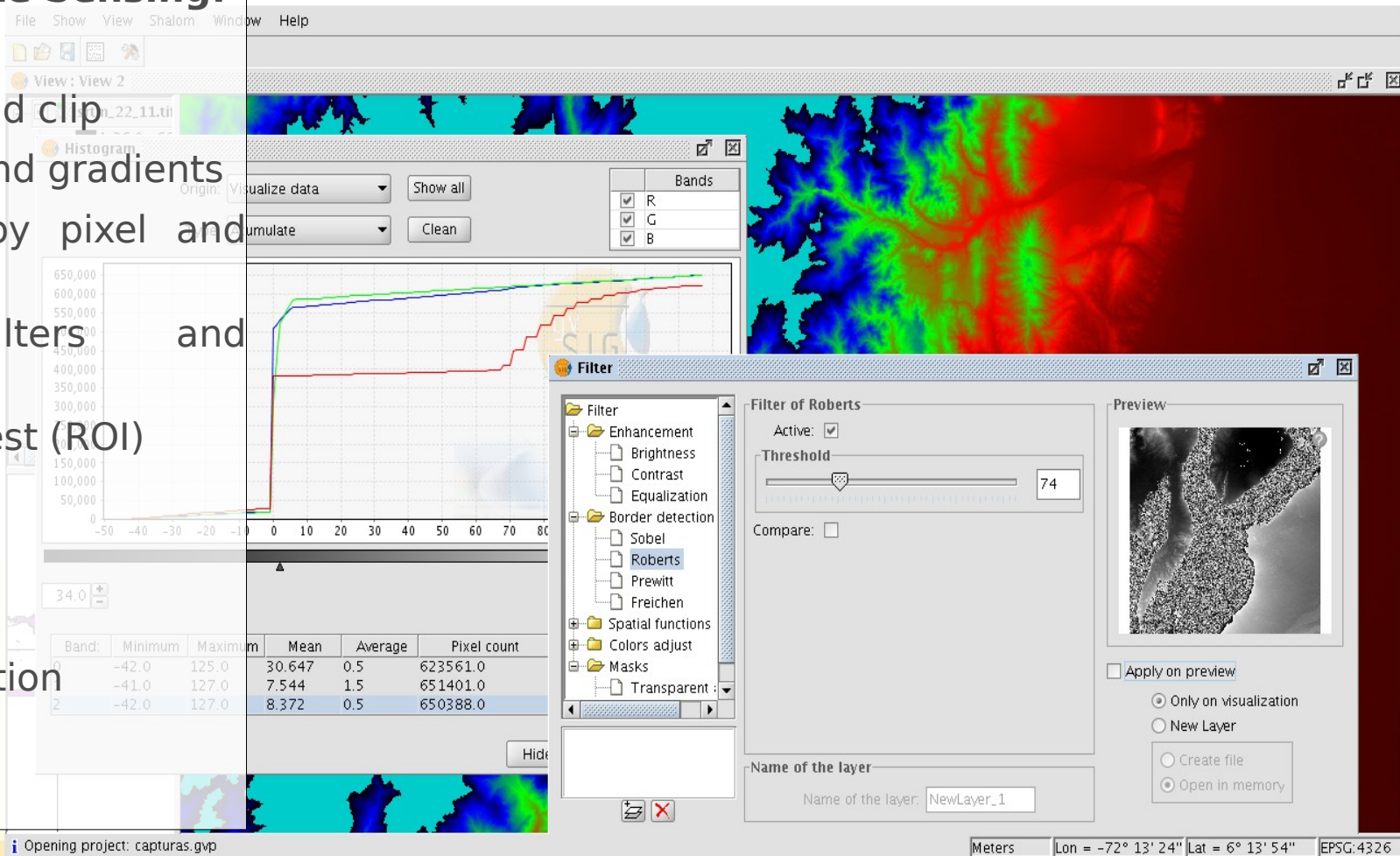
  - Hydrological parameters

  - ...

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
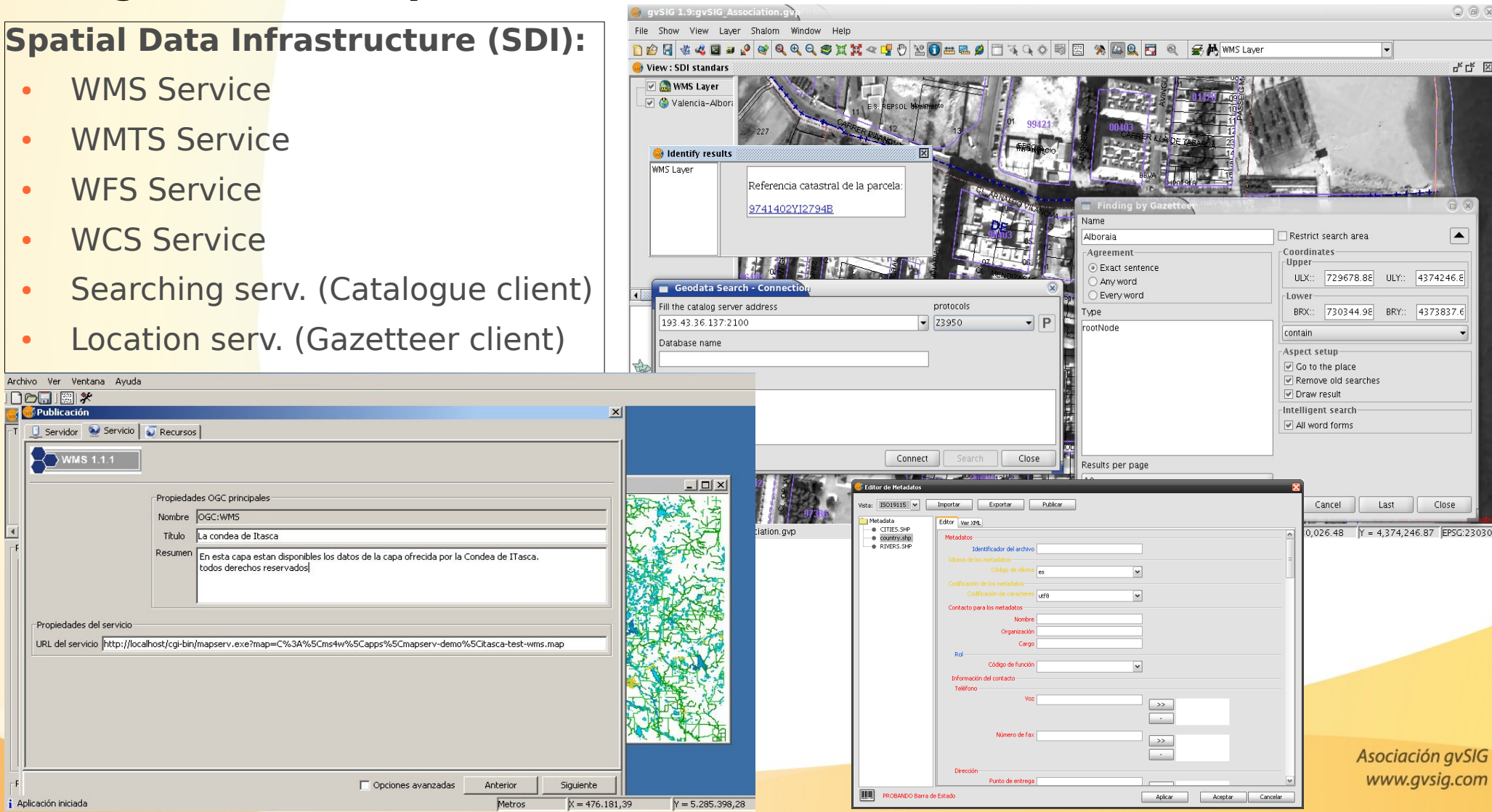- Raster reprojection
- Mosaics
- ...

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)

1. What's gvSIG

gvSIG Desktop: Characteristics
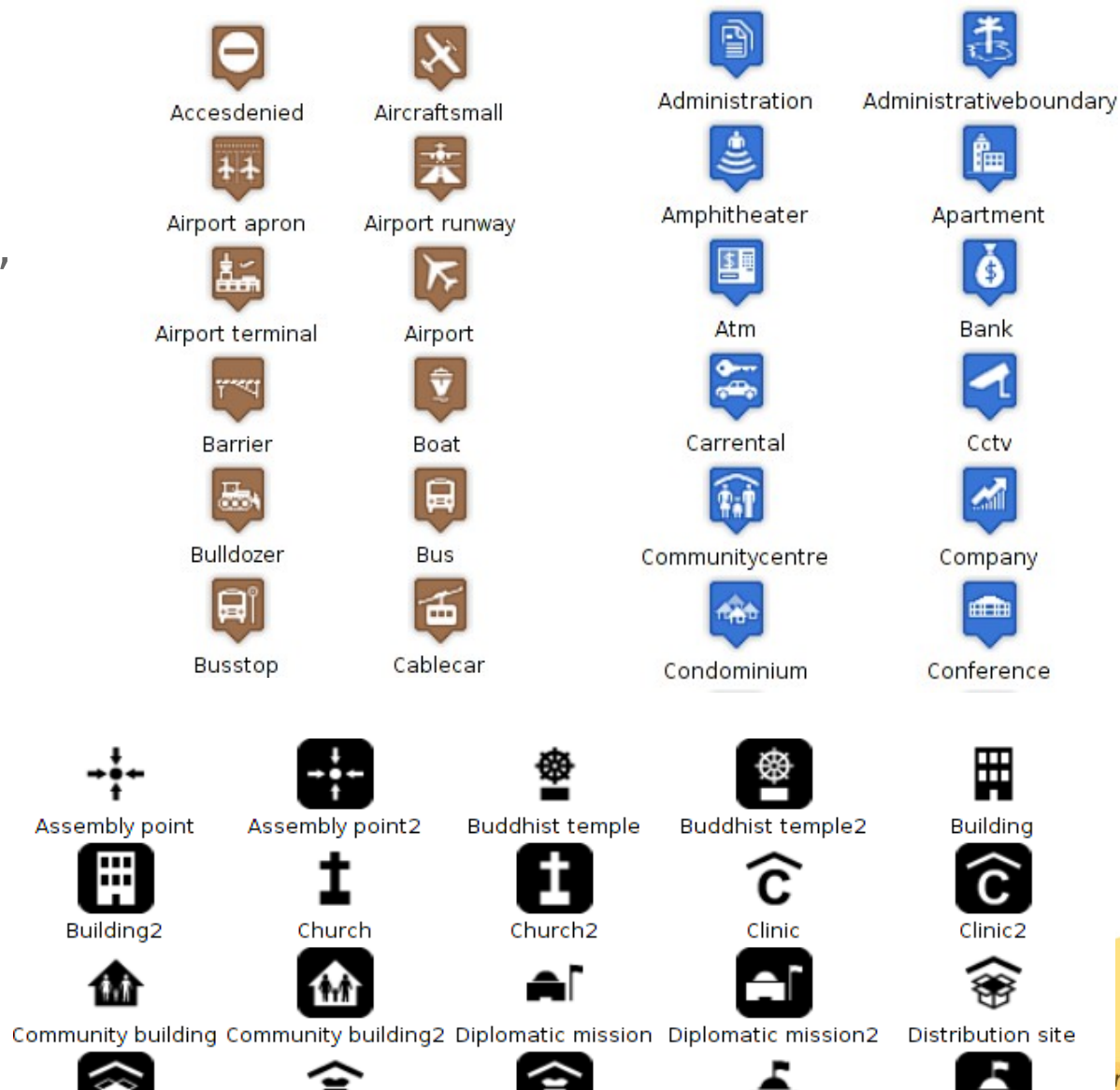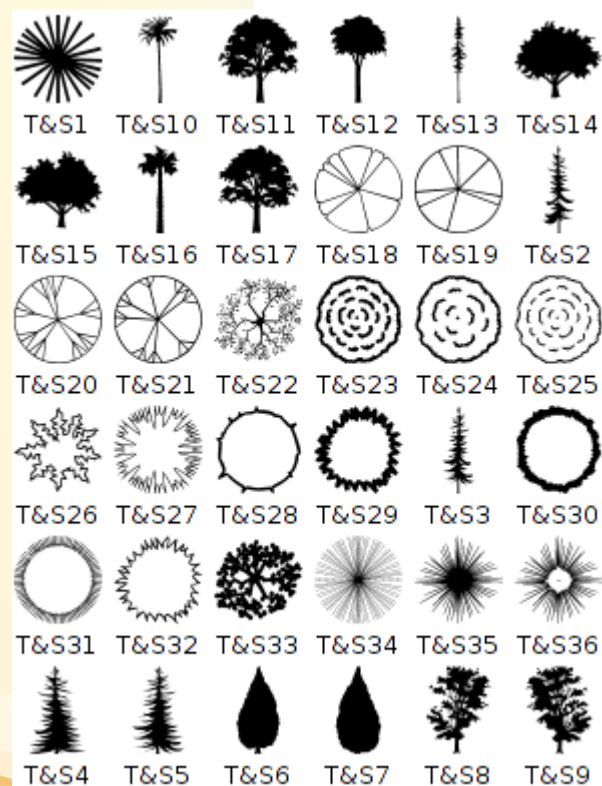
3D View

- Rasterization of vector layers
- Load raster layer
- Upload digital terrain models
- Synchronize changes
- Frame Sync
- Full Screen
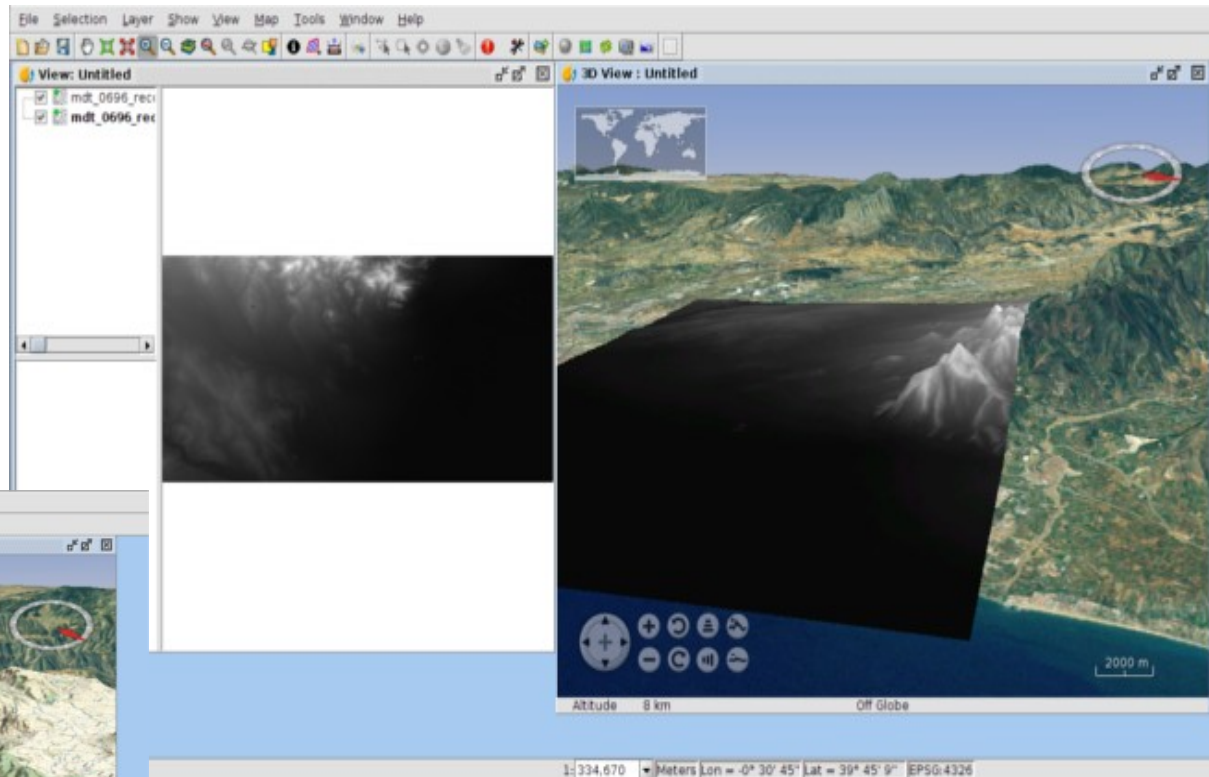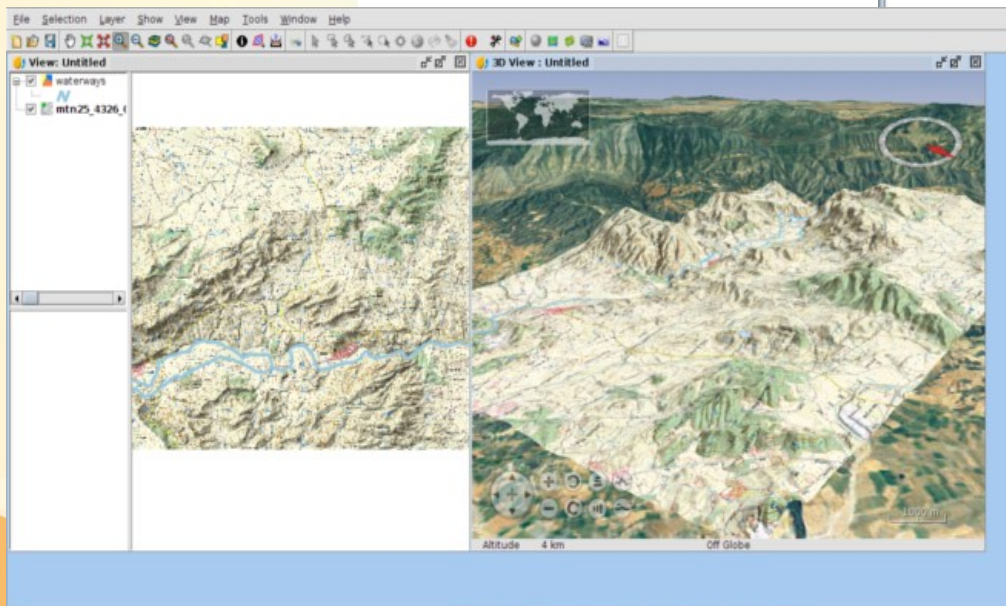
1. What's gvSIG

Symbols:

Symbols for Forestry, Criminology, Infrastructures, Tourism, Health, Geology...
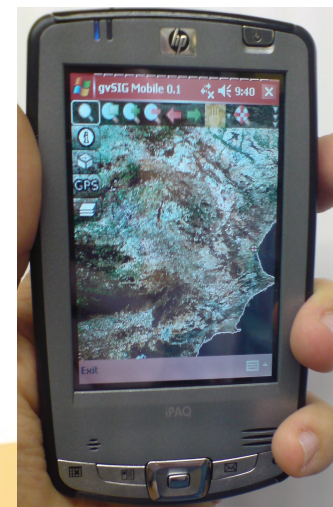
1. What's gvSIG

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...
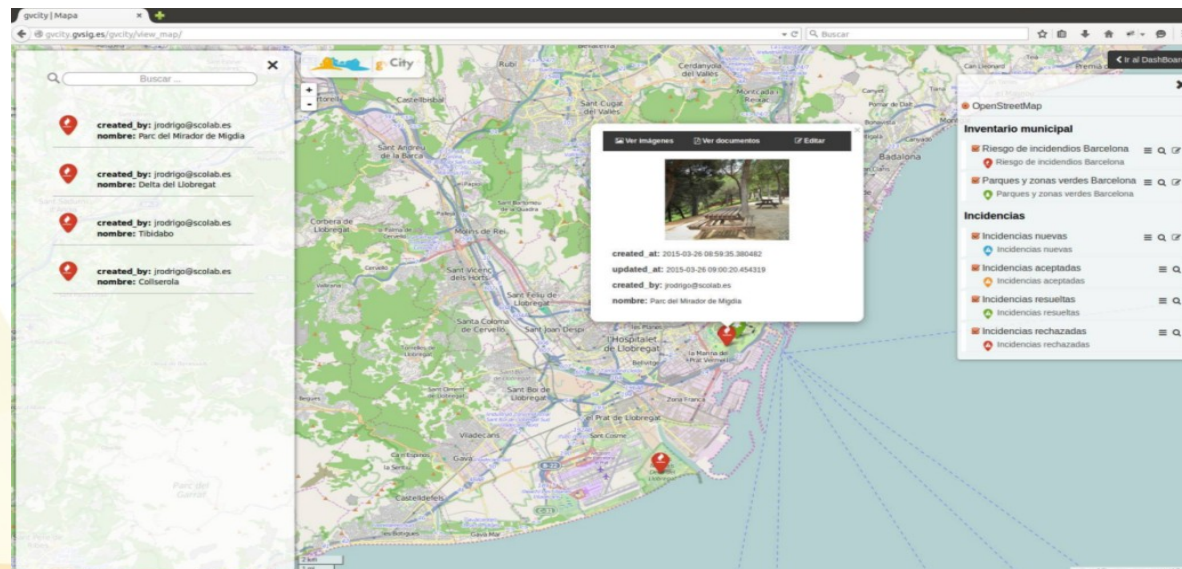
1. What's gvSIG

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

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

• …

Contents

1. What's gvSIG

2. gvSIG's Community

3. gvSIG Association

4. Technical demos

5. Comments and Questions

2. gvSIG Community

Some data...
- Translated to more than 30 languages
- Downloaded in more than 100 countries
- Several mailing lists; + 4.000 users
- Conferences in Spain, Germany, Italy, United Kingdom, Brazil, Russia, France, Argentina, Venezuela, Uruguay, Chile...

Countries where gvSIG has been downloaded in the last months

2. gvSIG Community

www.gvsig.com

1. gvSIG's Community

→ gvSIG Outreach: *http://outreach.gvsig.org*

1. gvSIG's Community

→ 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
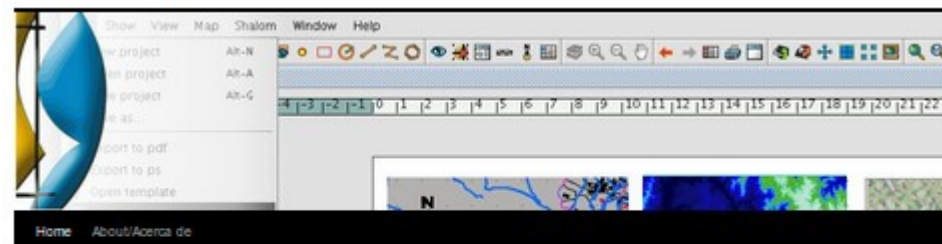- FWTools

1. gvSIG's Community

→ gvSIG Blog: *http://blog.gvsig.org/*

→ gvSIG Planet: *http://planet.gvsig.org/*

→ Twitter: @gvsig

→ Facebook, identi.ca

Contents

1. gvSIG's Community

2. gvSIG Association

3. Technical demos

4. Comments and Questions

2. gvSIG Association

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.

Main goals:

{ *Promote Free and Open Source Software for Geomatics*

Development of gvSIG

2. gvSIG Association

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

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

Contents

1. gvSIG's Community

2. gvSIG Association

3. Technical demos

4. Comments and Questions

5. Technical demos

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

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...