What's new in gvSIG Desktop 2.0

What are the novelties?
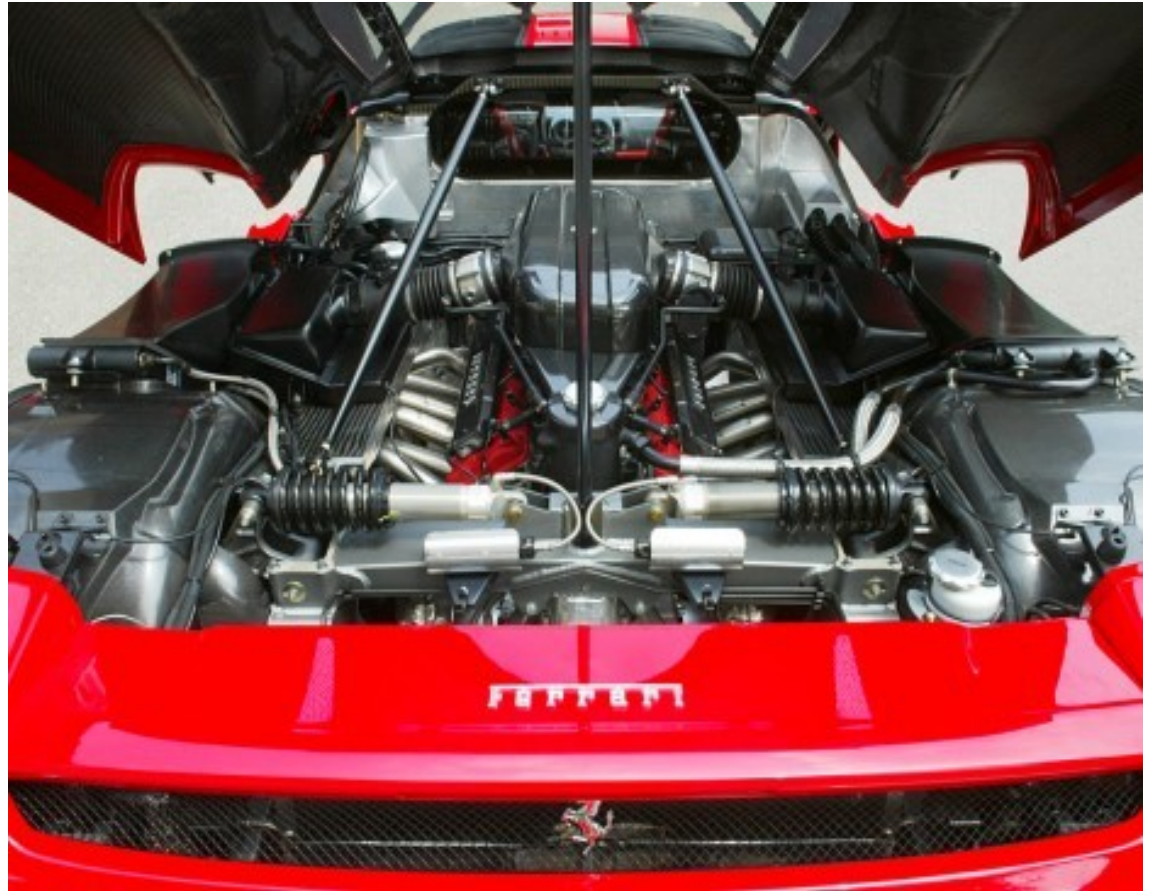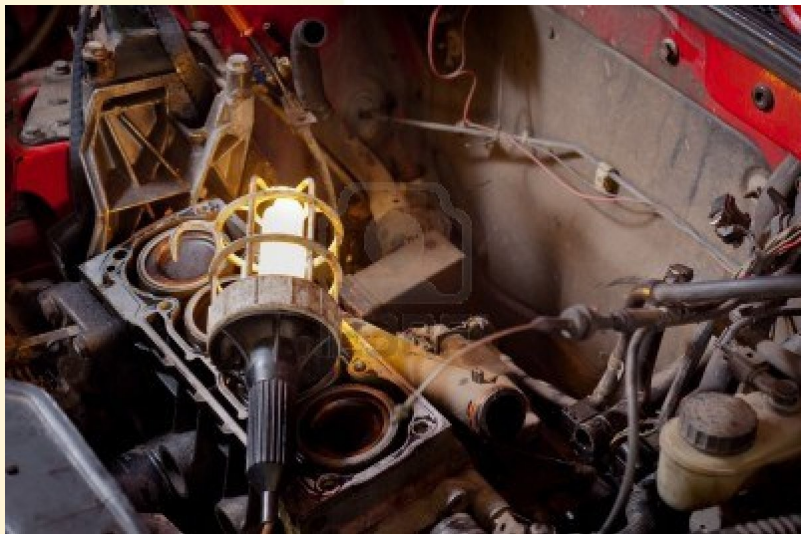
2.0

1.12

Migrating and building...

Please pardon our appearance during construction
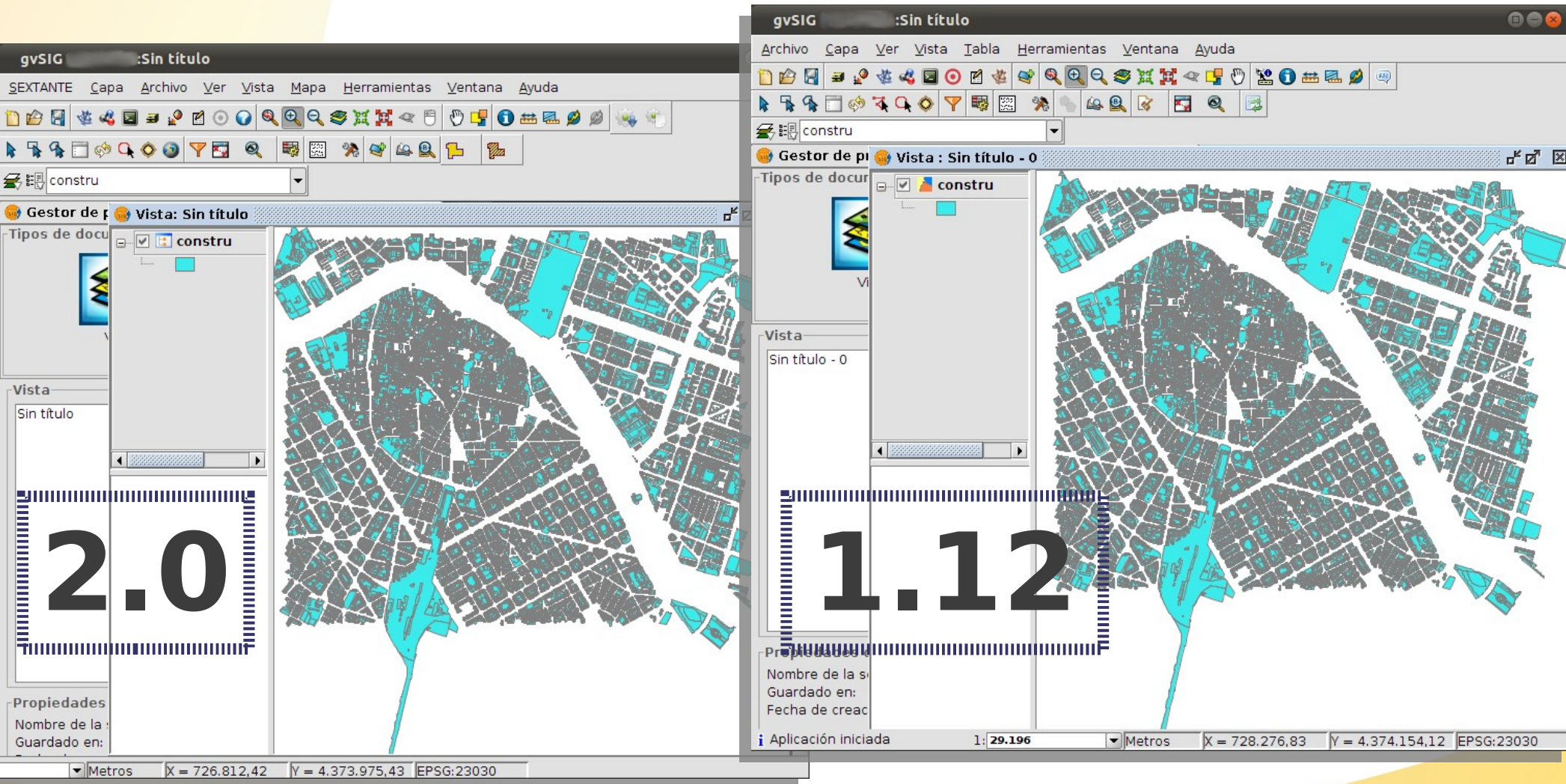
Some examples...	1.12	2.0
Pie and bar chart legends	X	
Table in layout		X
Import/export symbols		X
Add-ons manager	-	X
CSV	X	
NETCDF		X
Multi-temporal data		X
Metadata management		X
Network analysis	X	
WMTS		X
Raster tile cache		X

The main novelty is in the area of development **tools**
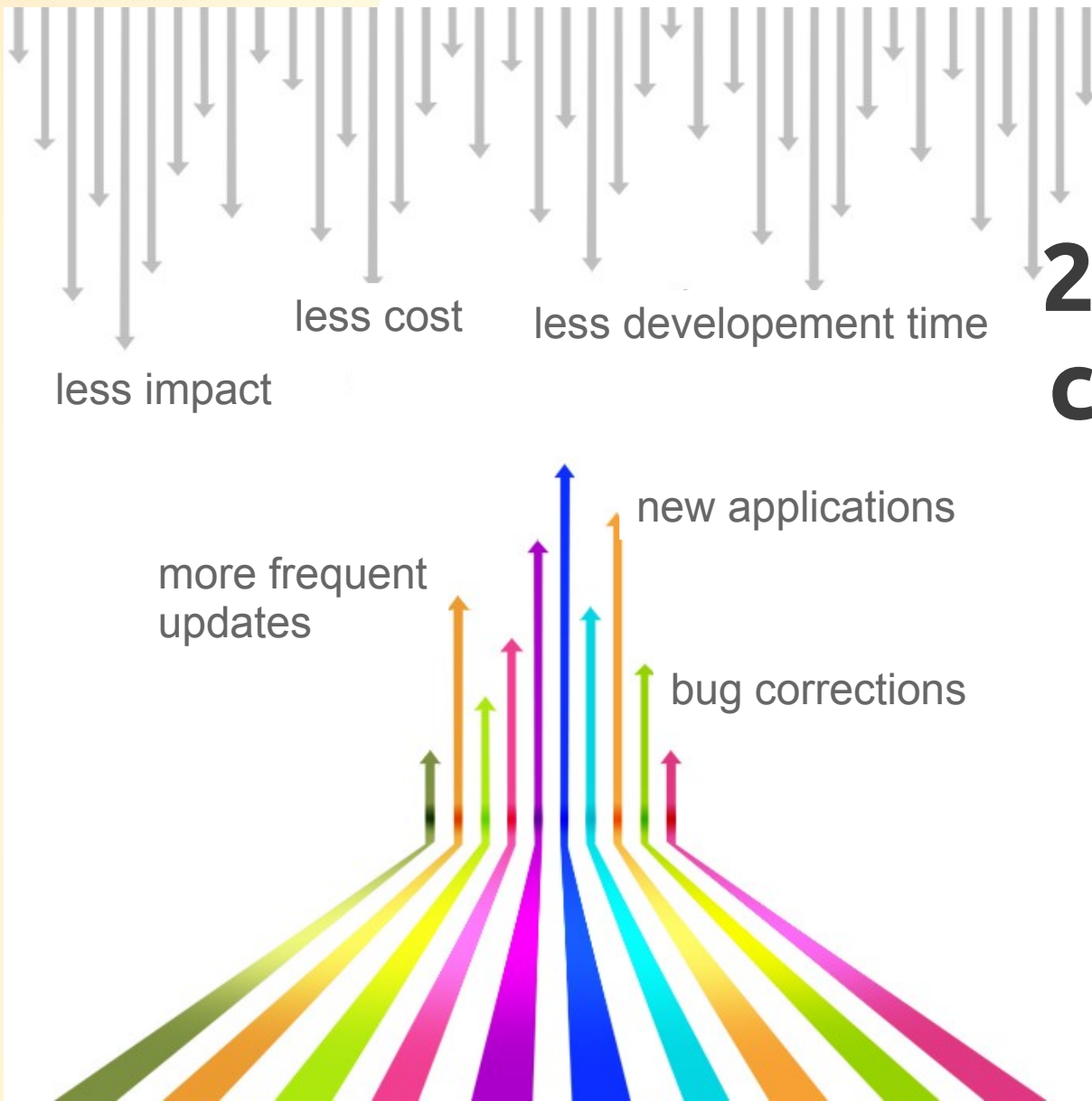
New engine

1.x Architecture

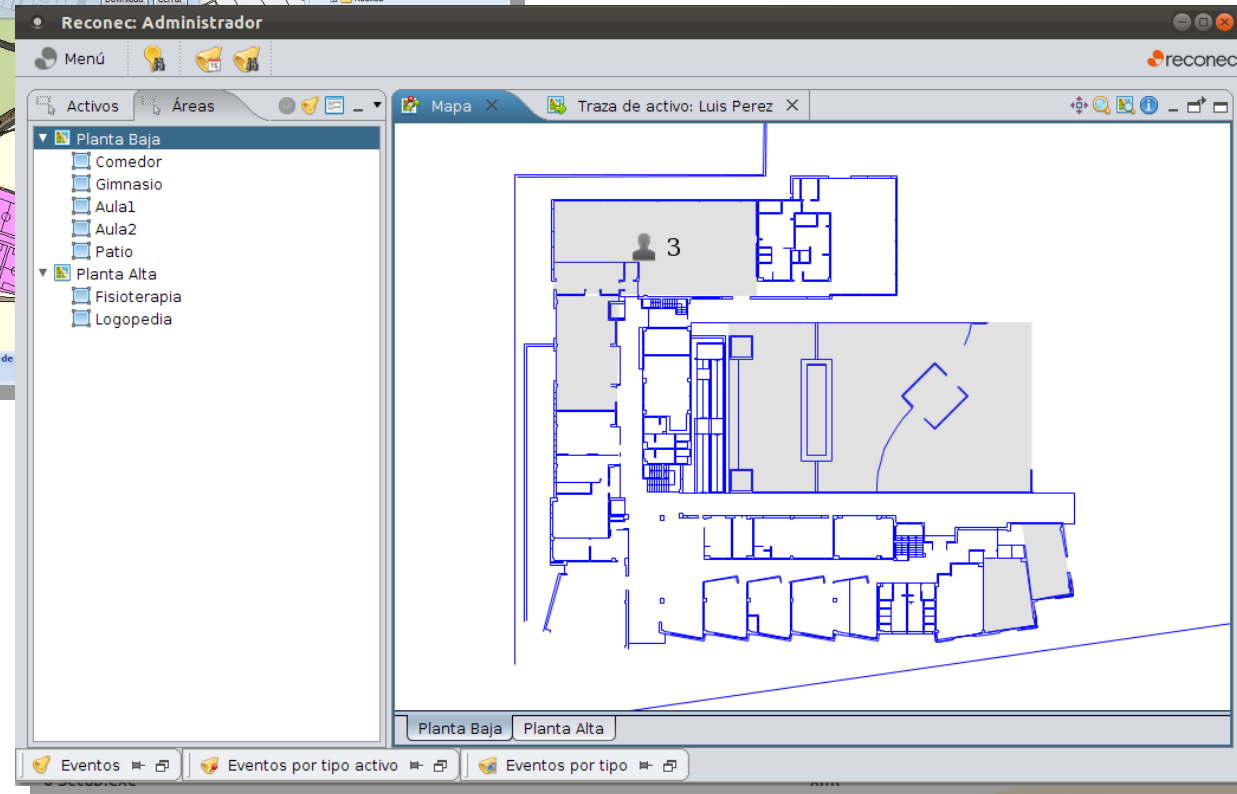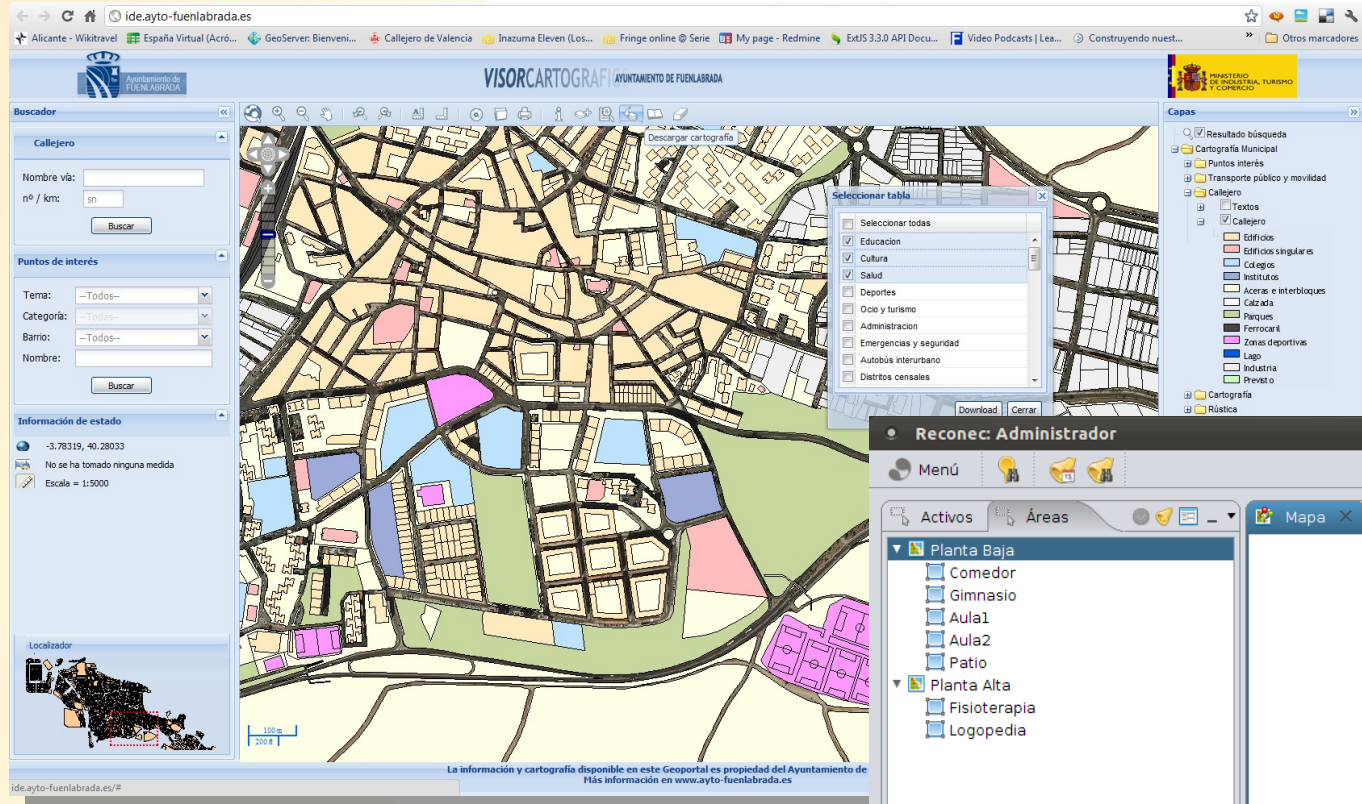**Any change entails... complexity and impact**

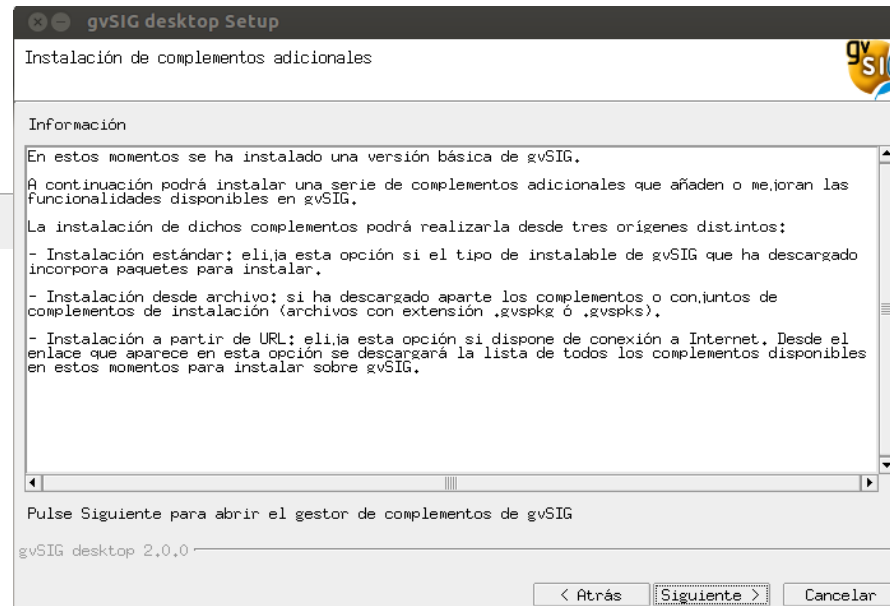# 2.x Architecture

Restructuring and API

less cost

less developement time

less impact

2.x Architecture: changes provide advantages

new applications

more frequent updates

bug corrections

New applications

New installer

New installer that supports typical and customized installation. Through a customized installation the user can control the add-ons that are installed.

We can install a "**customized gvSIG**"

Add-ons manager

Not only new functionalities but also symbol libraries...
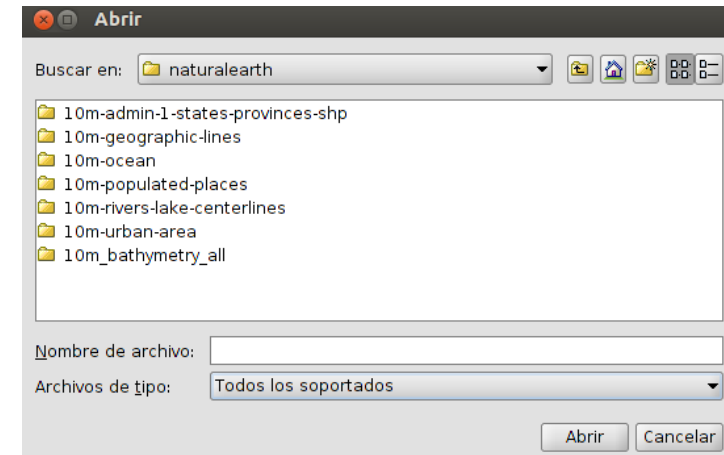
Interface / usability

Some changes in the **interface** of the data management
tools like:

- Importing/exporting files
- Table operations
- New layer

Usability improvements (starting...), like:

- All supported data formats can be added
  without driver selection
- Screen refresh when zooming
- Menus and sub-menu restructuring

Data display

- Improvements in the **layer performance**:
  The user can now work on the application
  while a layer is loading.

- **WMTS** (Web Map Tiled Service) support. The WMTS is a
new OGC standard service that improves the popular
WMS thanks to improved tile management.

- **Raster data cache.** Improvements in the raster data
viewing performance.
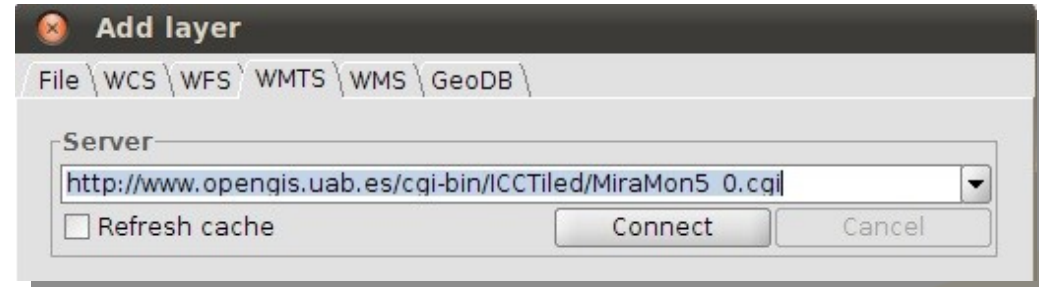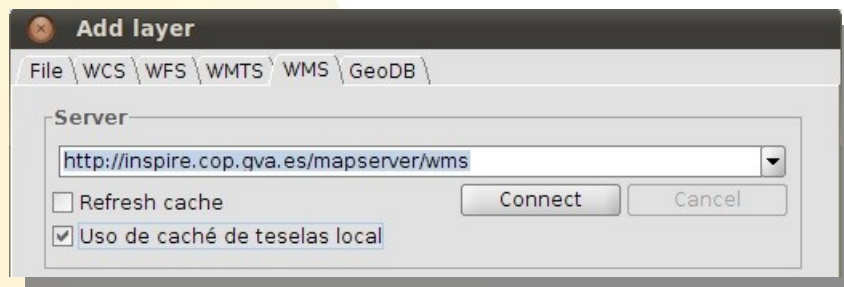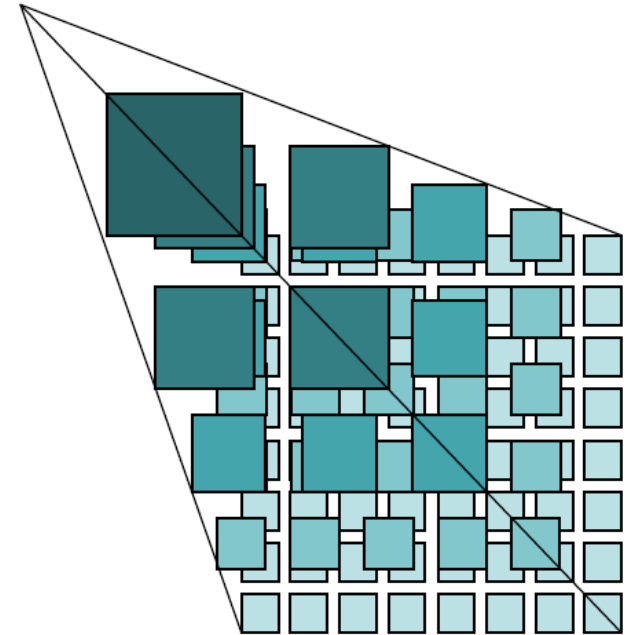
4D: Time as a coordinate

- **NETCDF (vector/raster)** format support. NETCDF is a format for scientific data that supports, among other things, multi-temporal data.
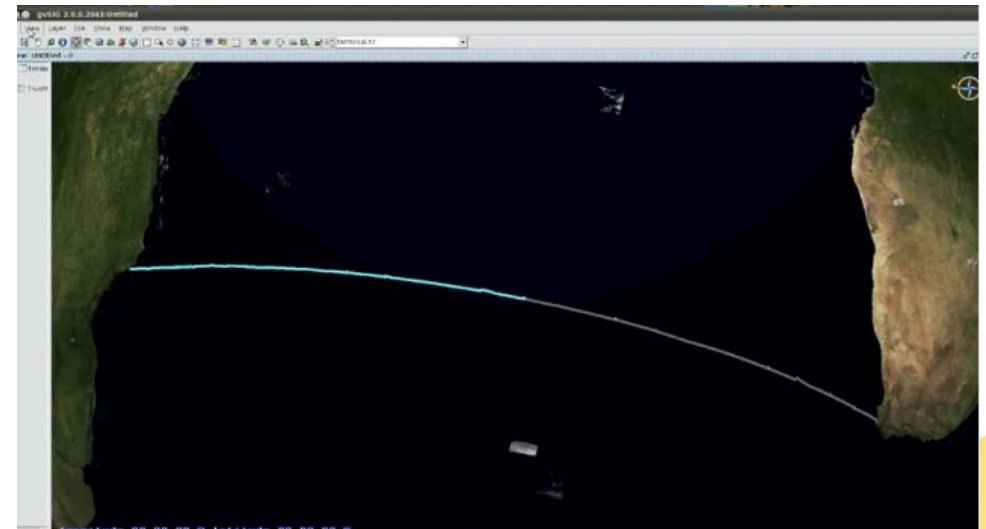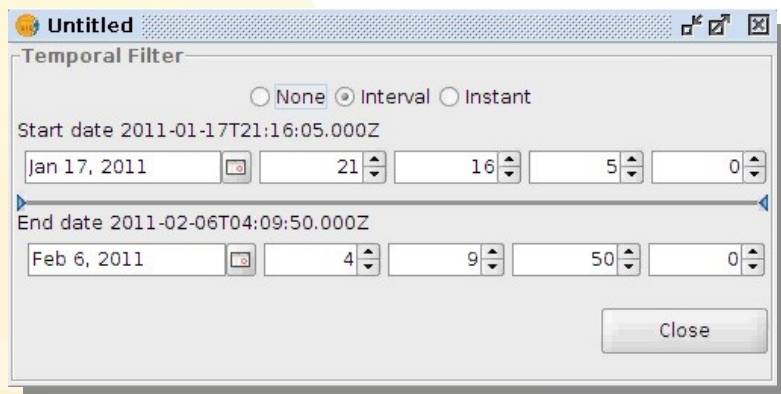
- **Temporal data** support. A new **temporal filter** tool has been added for files that support the time dimension like NETCDF.

- **Animation generation** from temporal data (vector).
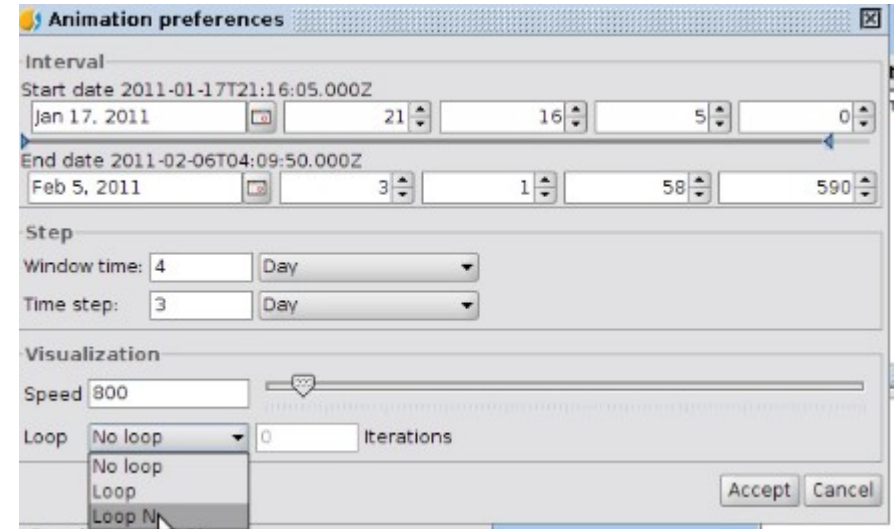
Scripting: Python for gvSIG

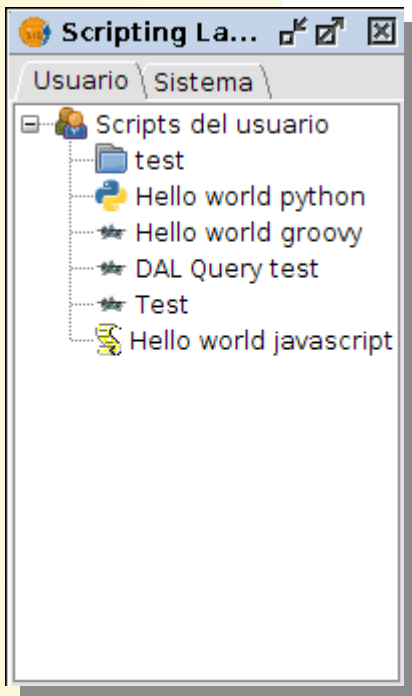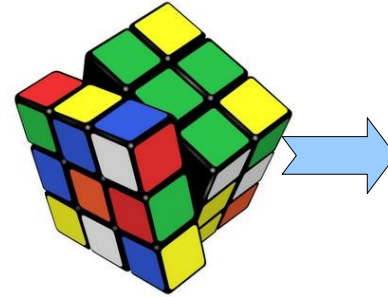- It is an <u>open source</u> development language.

- **<u>Easy to learn</u>**. Suitable for beginners... and also for experts.

- <u>Multi-platform</u>.

- <u>Stable</u> and mature.

- It has a **great users community**, also in the GIS world.

- Prepared for Groovy and Javascript supporting.

Symbology

- Point symbols importer in different formats: SVG, JPG, BMP...

- It allows you to create your own symbol libraries

- gvSIG 2.0 will include new free symbol libraries (Google, OSM,...)

- Users can share their symbols
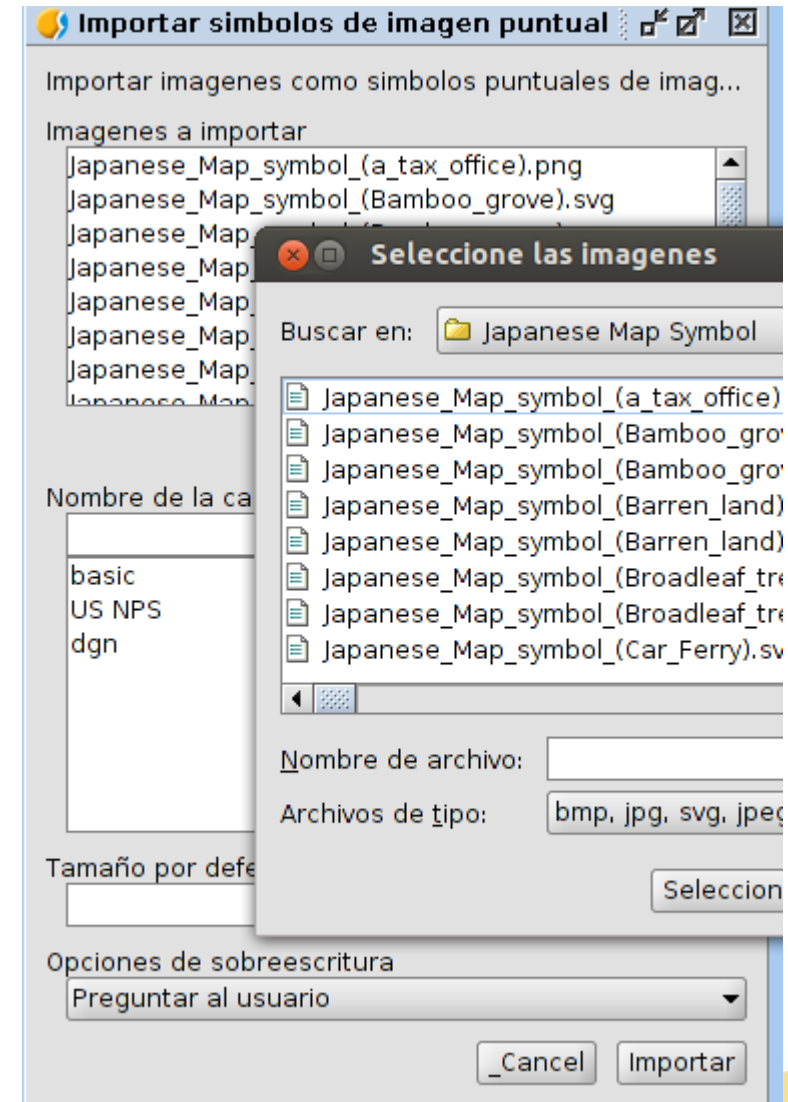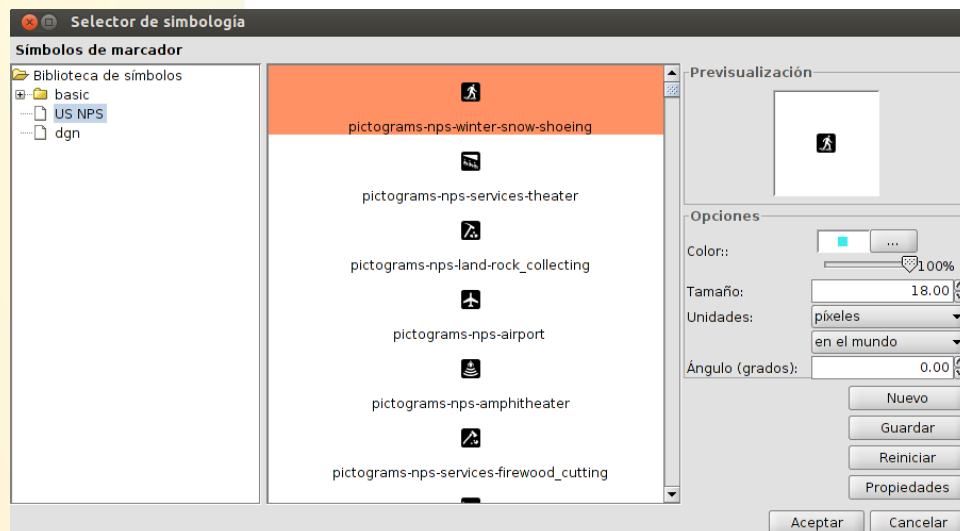
Geoprocessing

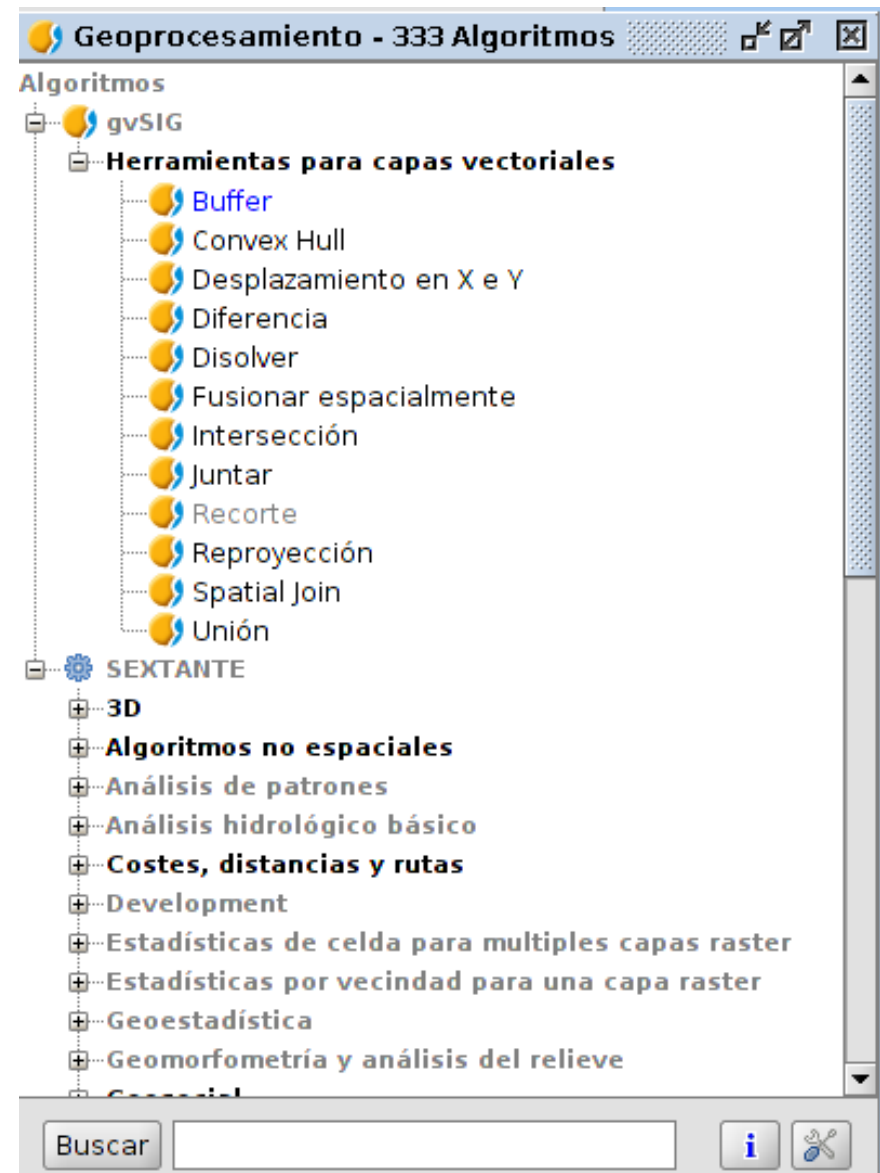- Unified geoprocessing interface. From this version on, all the geoprocessing tools will be housed in a single toolbox.

- Geoprocessing speed and functionality improvements.

PostGIS Raster

- PostGIS Raster Support. PostGIS Raster, previously called WKTRaster, is an extension developed on PostGIS. The objective of this extension is to add native support for raster data to the database.

-It takes advantage of the DB manager system characteristics:

- Data access and security restrictions
- SQL support for spatial queries
- Client-server architecture for
   simultaneous access
- Data centralization

- Georreferenced tiled and multi-resolution raster data storing (row: rater or tile; table: complete cover).
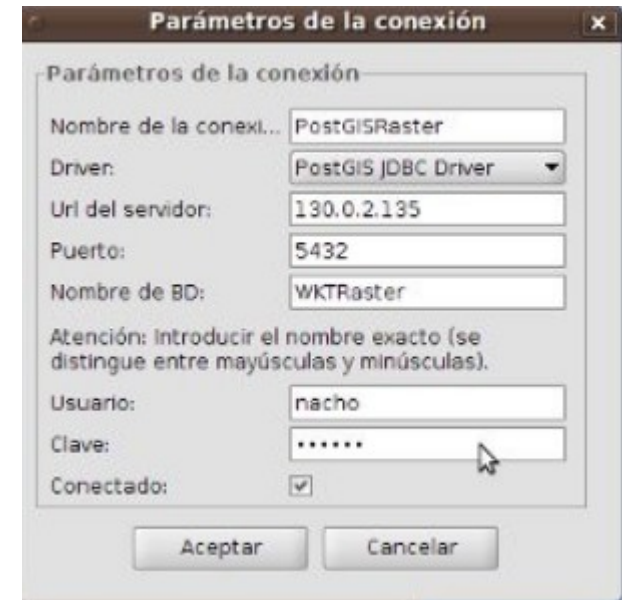
Metadata

- Metadata management. New add-on that allows creation, editing and exporting of metadata.

- Metadata profiles generation. Add-on that allows advanced users to create new metadata profiles.
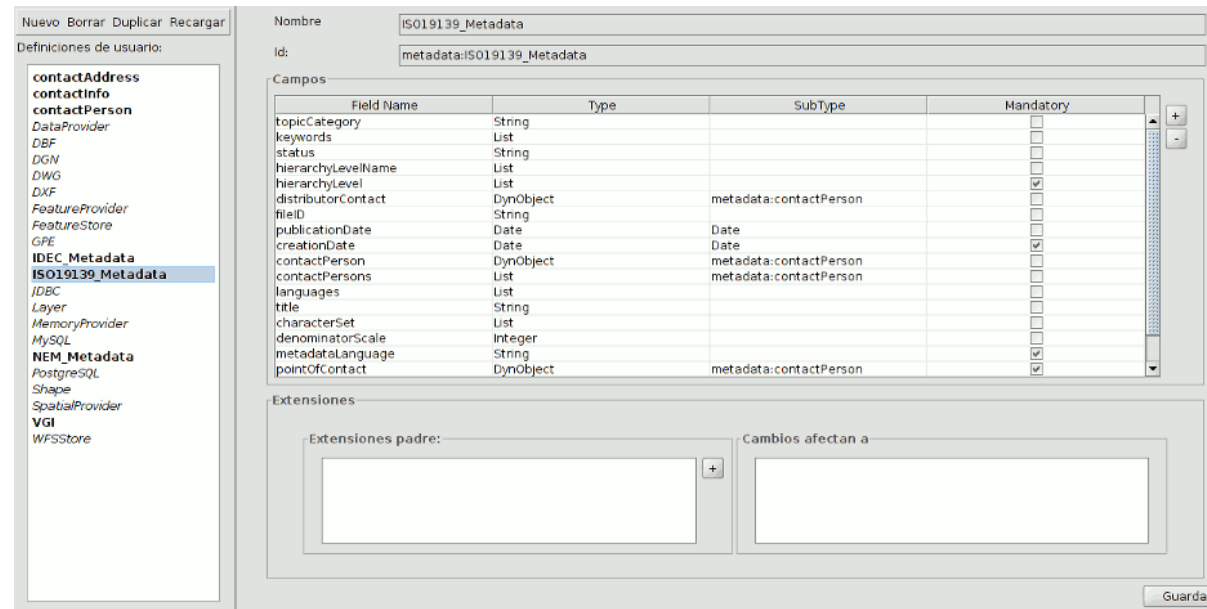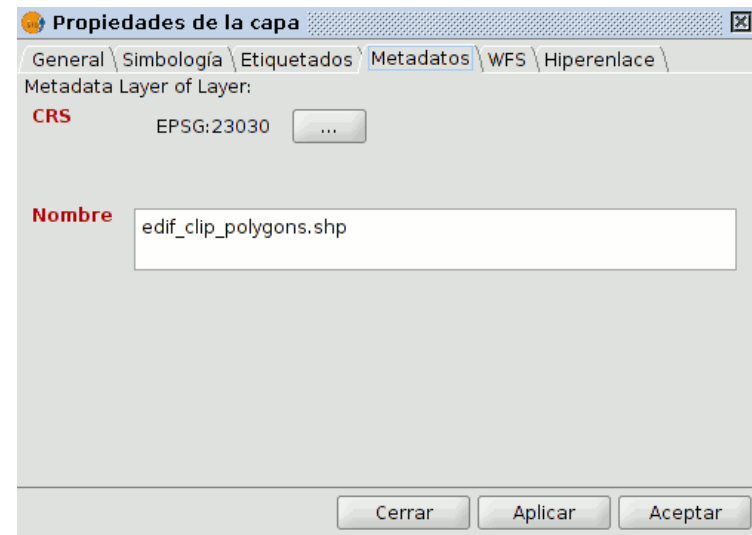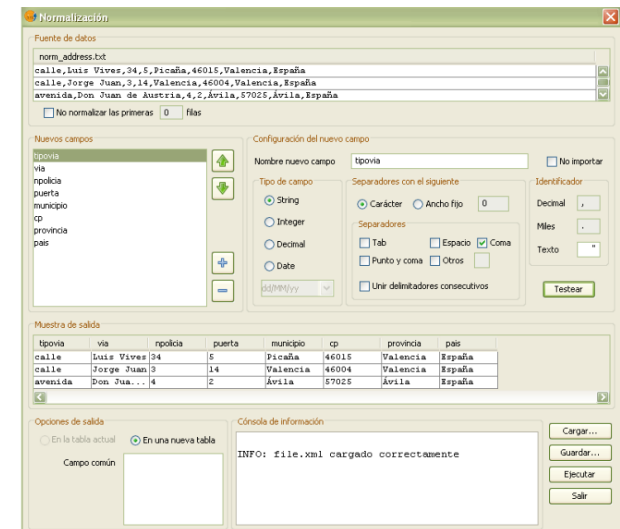
Other improvements

- Inserting table in layout. Any of the tables of a gvSIG project can be added to a layout.

- Raster layer information (info by point).

- New versions of OGC formats
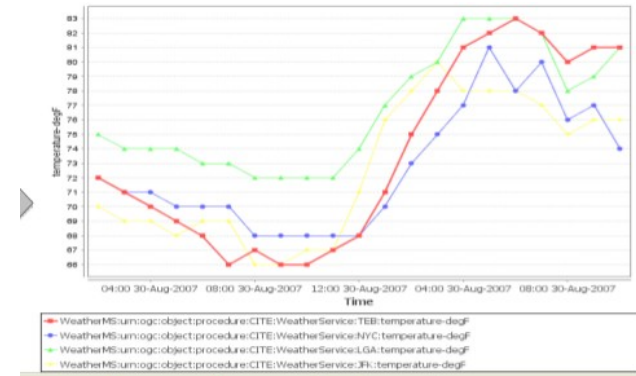
Extensions for gvSIG 2.0

- Normalization

- Geocoding

- Sensors: SOS, graphs,...

- Thematic maps (from gvSIG Educa/Batoví)

Next gvSIG 2.1

- Map sheets
- Graph document (graph legend is still pending)
- Thematic maps
- OSM

- Georeferencing
- PostGIS 2.0 raster
- Compatibility with Vector PostGIS 2.0
- New legends (Expressions, Proportional Symbols, Graduated Symbols, Points Density, Quantities by category)
- Advanced labelling
- CSV
- Event layer
- Table in layout
- Raster improvements
- Printing improvements
- Time-space dissolve geoprocess
- Reviewing of source code headers
- Last version of Sextante
- Fixing of bugs

We have laid the foundation for the future of gvSIG

Questions?

What's new in gvSIG Desktop 2.0