



The gvSIG Project

Victoria Agazzi
Community Manager
vagazzi@gvsig.com

Alvaro Anguix
General Manager
aanguix@gvsig.com

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1. gvSIG's beginning: Origin

gvSIG was born in 2004 at the Regional Ministry of Infrastructures and Transport (CIT) of Valencia (Spain).

CIT started a full open source computer system migration called gvPONTIS, including the GIS tools.

There was no advanced FOSS for GIS management to replace closed source GIS tools.

So, CIT took the decision to start developing a GIS product called gvSIG. The main goal was to invest money on a FOSS tool, avoiding wasting it on closed source licences.

1. gvSIG's beginning: Evolution

Two main products were developed as local projects: gvSIG desktop (PCs/indoor) and gvSIG Mobile (mobile devices/outdoor) in order to cover all needs of GI technical experts.

Both were delivered as GPL/GNU applications, for free download of binaries, source code and user documentation.

From that point, the answer from the community was big enough in order to think on the evolution of the project:

- Several FOSS projects ended before starting
- CIT wanted to promote the continuity of the project

gvSIG wants to apply FOSS philosophy by a global vision: where technical, economic and political aspects are important.

1. gvSIG's beginning: Evolution

The gvSIG team started to work in order to:

- ☛ convert acquired knowledge into sharing knowledge,
- ☛ working under the main idea: “give 100 and asking for 10”
- ☛ avoiding that sharing knowledge will be closed again at the future (GPL license, publishing all materials)

On the technical side: modularity and internationalization were the two main bets:

- ☛ Modularity in order to make the collaborations easier,
- ☛ Internationalization to enable translation management, because location of software is important to FOSS.

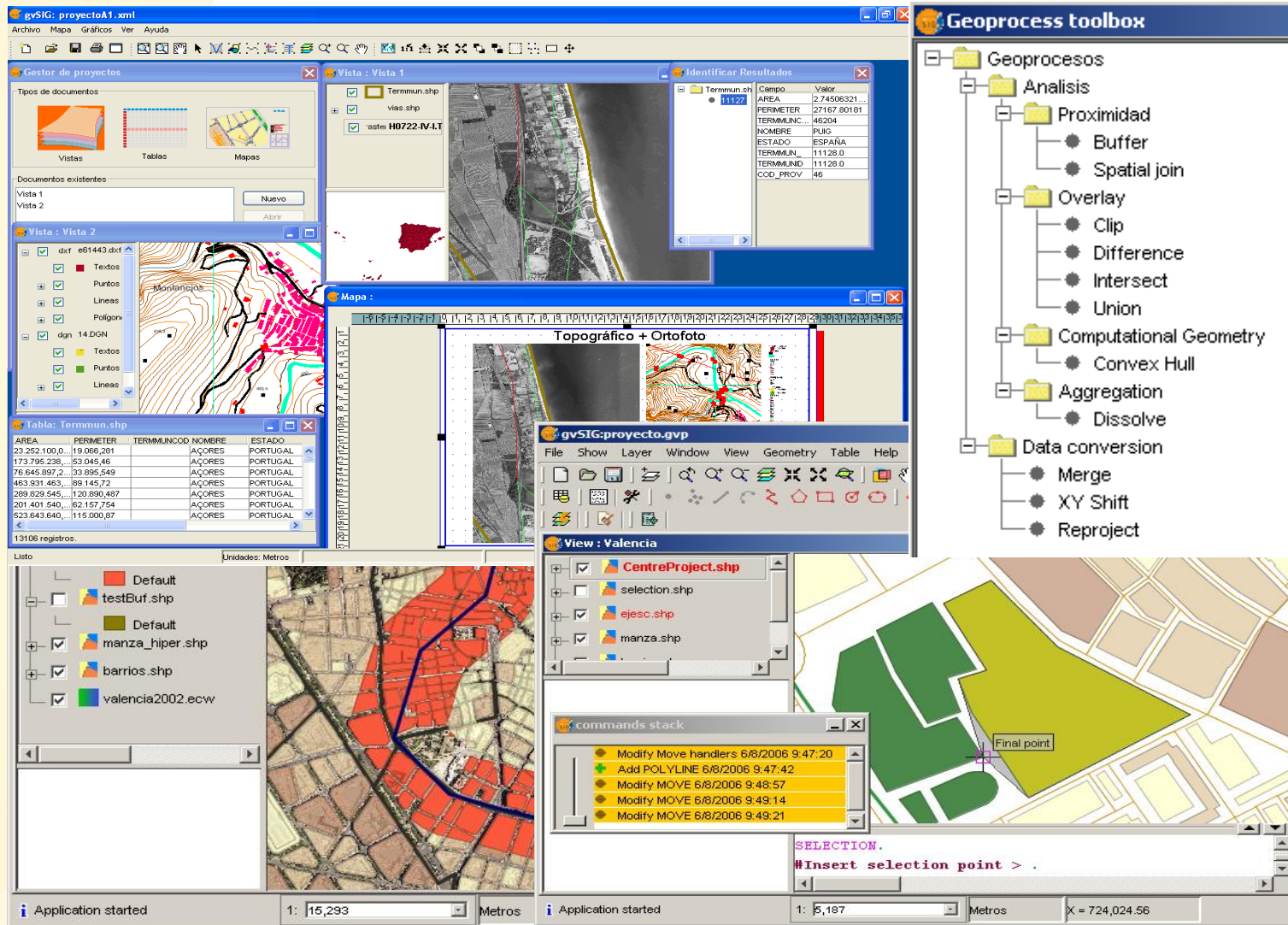
1. gvSIG Desktop: Characteristics

gvSIG Desktop is nowadays one of the most complete FOSS applied to GI management. It includes GIS as well as SDI features. It is available on more than 24 languages.

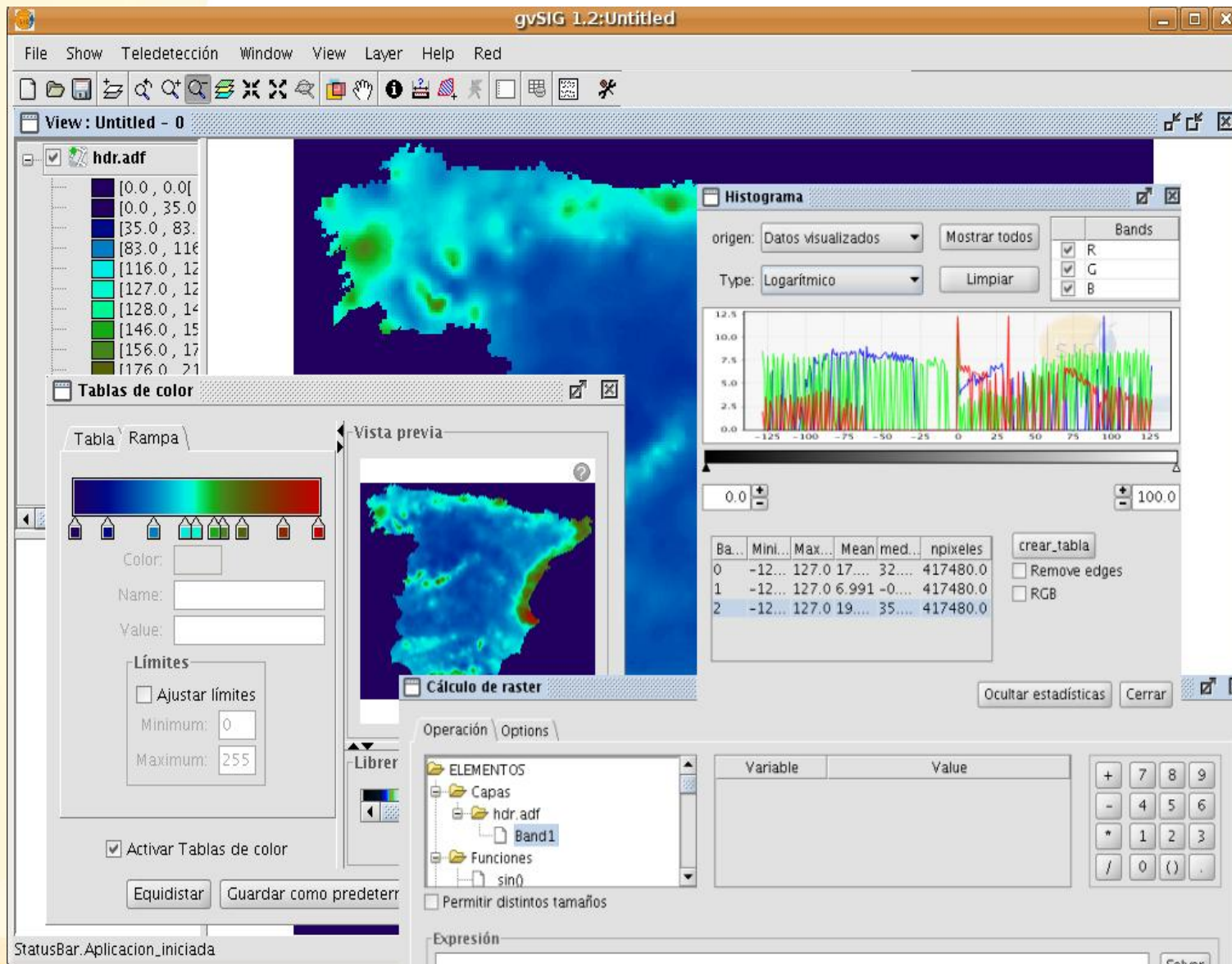
Features:

- GI visualization: several formats, CRS management
- map representation: symbols and labelling
- geoprocessing
- printing outputs
- editing
- updating
- image processing and remote sensing support
- LIDAR support
- SDI access: wms, wfs, wcs, wps, ...
- SDI outputs to publish by Mapserver or Geoserver
- 3D GIS: planar and globe views

1. gvSIG Desktop: Characteristics



1. gvSIG Desktop: Characteristics



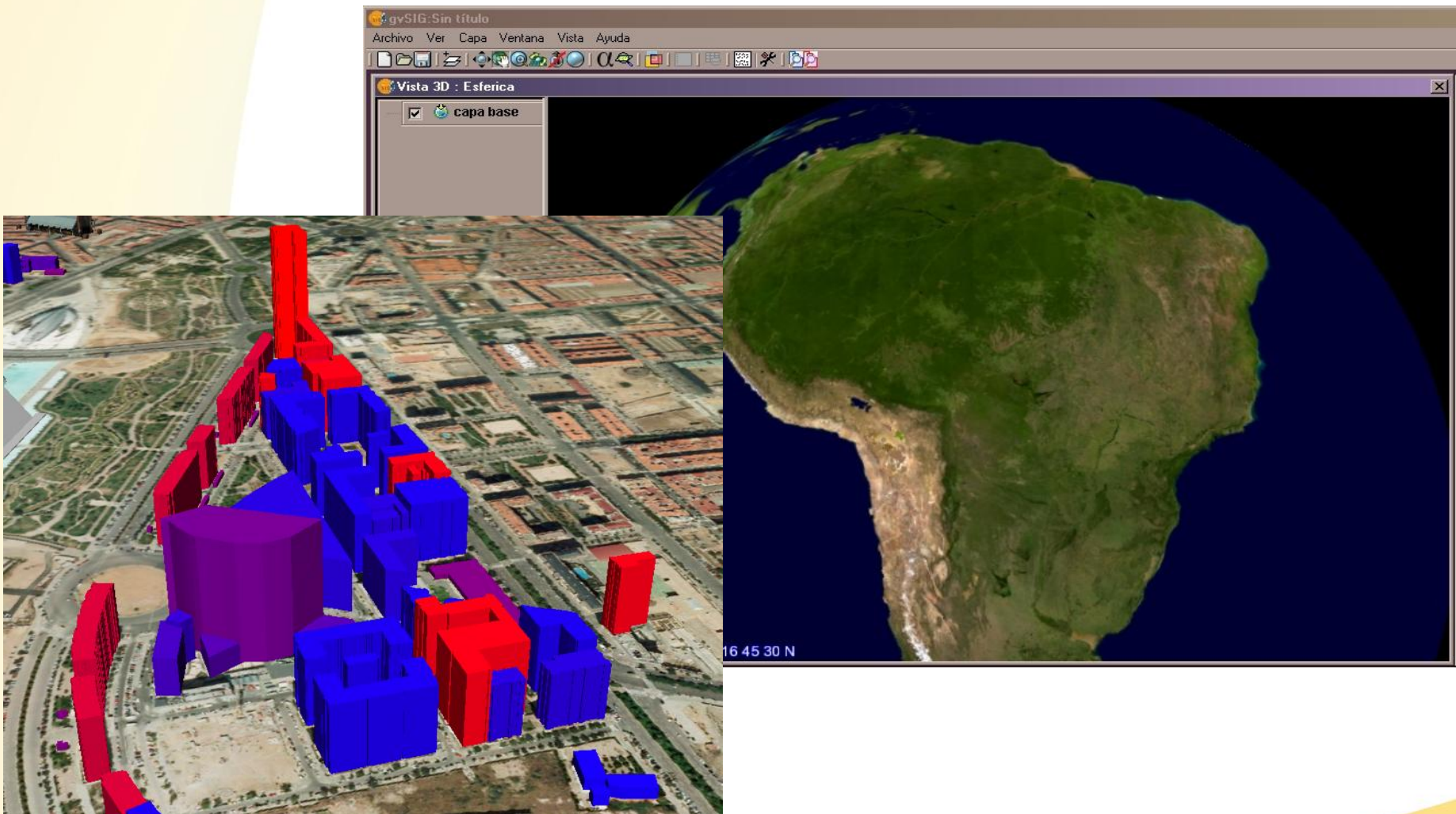
The screenshot displays the gvSIG 1.2 desktop interface with the following components:

- Menu Bar:** File, Show, Teledetección, Window, View, Layer, Help, Red.
- Toolbar:** Standard GIS navigation and editing tools.
- View: Untitled - 0:** Main map window showing a satellite-style image of a landmass.
- Layers Panel:** Shows a layer named 'hdr.adf' with a color legend. The legend includes values such as [0.0, 0.0], [0.0, 35.0], [35.0, 83.0], [83.0, 116.0], [116.0, 127.0], [127.0, 128.0], [128.0, 146.0], [146.0, 156.0], [156.0, 176.0], and [176.0, 216.0].
- Histograma:** A window showing a histogram of the data. It includes a 'Bands' section with checkboxes for R, G, and B. The histogram shows three overlapping distributions (red, green, blue) across a range from -125 to 125. Below the histogram is a table of statistics:

Ba...	Mini...	Max...	Mean med...	npixeles
0	-12...	127.0	17....	32.... 417480.0
1	-12...	127.0	6.991 -0....	417480.0
2	-12...	127.0	19....	35.... 417480.0
- Tablas de color:** A window for defining color ramps. It shows a 'Rampa' (ramp) color scale and a 'Vista previa' (preview) of the map with the selected color scheme. It includes fields for 'Color', 'Name', and 'Value', and checkboxes for 'Ajustar límites' (Adjust limits) and 'Activar Tablas de color' (Activate color tables).
- Operación / Options:** A window for defining raster operations. It includes a tree view of the project structure (ELEMENTOS, Capas, hdr.adf, Band1, Funciones, sin) and a table for defining operations:

Variable	Value

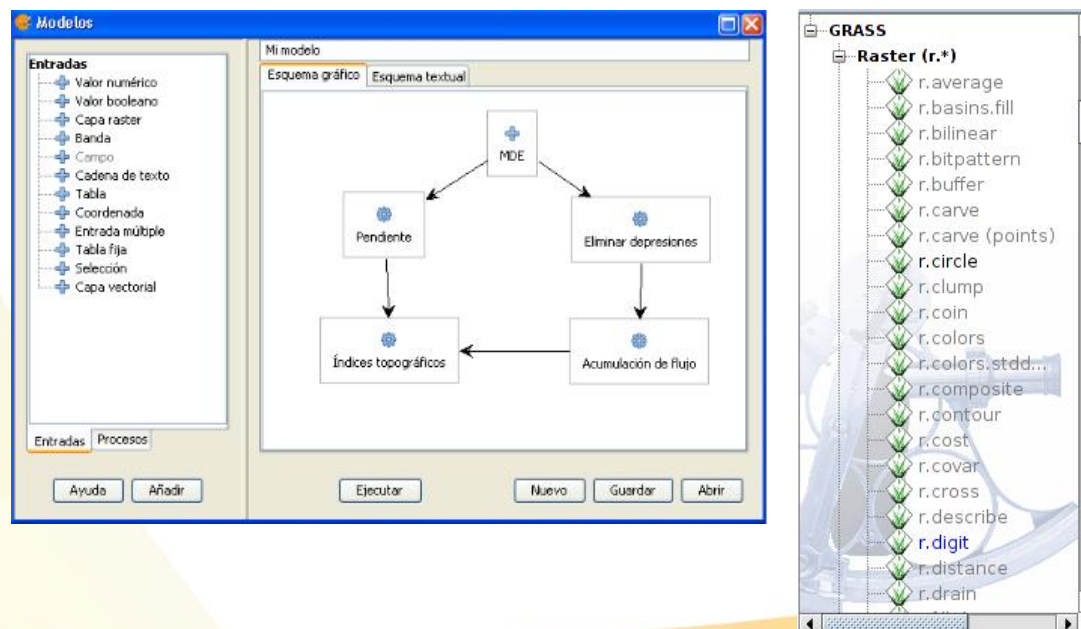
1. gvSIG Desktop: Characteristics



1. gvSIG Desktop: Characteristics

Integration to other FOSS4G projects

- ☕ Sextante: more than 200 features, geoprocess modeller
- ☕ Mapserver and Geoserver: publishing web services directly from gvSIG views
- ☕ Grass: access to all its features on the gvSIG view



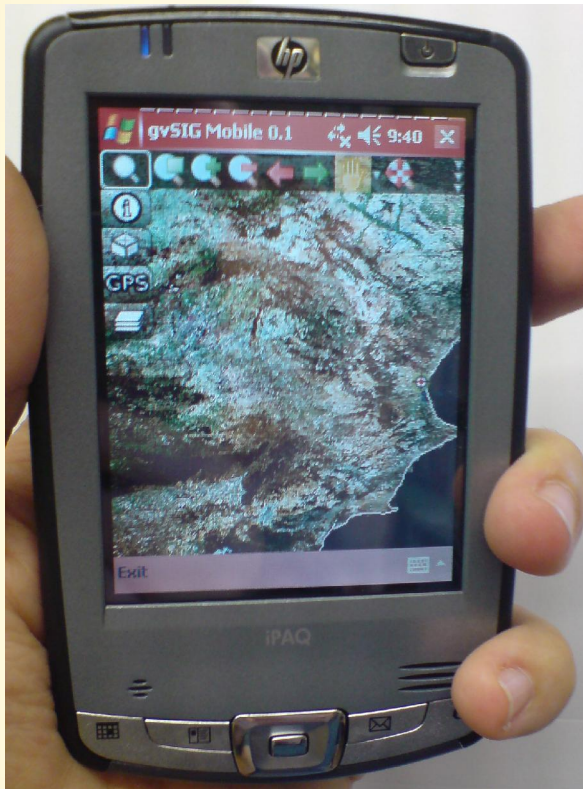
1. gvSIG Mobile: Characteristics

gvSIG Mobile enables GIS experts to work outside the office for updating information and then, synchronizing to gvSIG Desktop. It is translated into 9 languages.

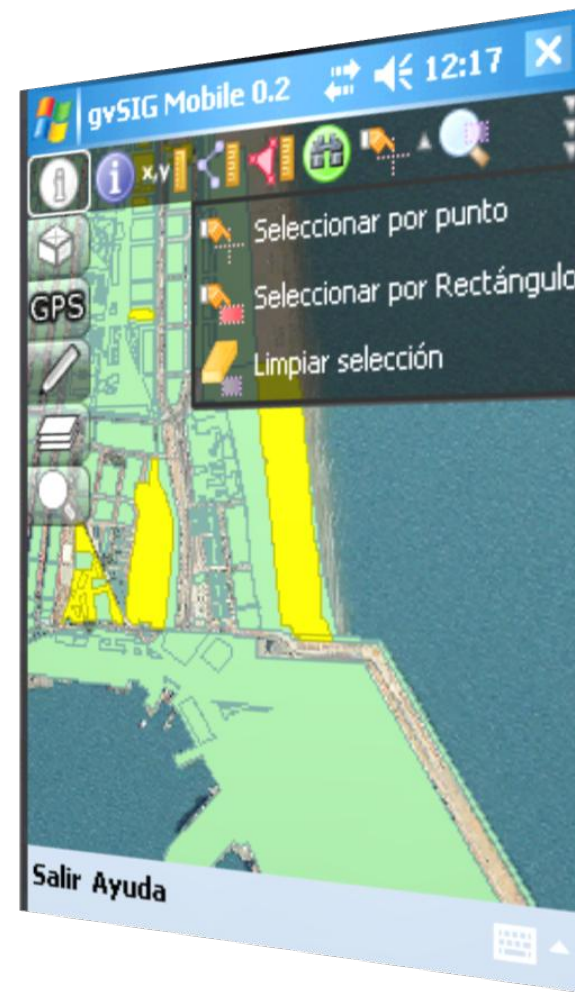
Features:

- GI visualization: several formats, CRS management
- map representation: symbols and labelling
- GPS support: manual and automatic
- editing, updating GI
- Selecting and filtering data
- SDI access: wms, wfs,
- POIs management, DDBB storage
- Measuring and info functions

1. gvSIG Mobile: Characteristics



1. gvSIG Mobile: Characteristics



1. gvSIG Mobile: Characteristics



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2. gvSIG's Community

gvSIG is a FOSS project, hence its community is its major value.

The Community around gvSIG is composed of individuals and entities that are interested on gvSIG:

- ☉ persons from Universities, enterprises and public adm.
- ☉ Institutions (one upper level of participation):
 - ☉ Universities (Labs, Faculties, etc.),
 - ☉ Enterprises (SME, local industrial fabrics),
 - ☉ Public Administrations.

The main idea is that all these people have a common interest: *this interest is on gvSIG and FOSS in general, including models of production of technology.*

2. gvSIG's Community

Many FOSS project communities are intended to be ONLY around voluntary developers, working on the projects on their spare time.

gvSIG wants to include those voluntaries, but also people whose work (paid work) has to do with gvSIG. In some way we understand that the sustainability of the project depends on this factor.

The gvSIG community (as a whole community!) includes a wide ecosystem of public administrations, companies, universities, technology institutes, teaching institutes, laboratories, NGOs, etc. that USE, PERSONALIZE and IMPROVE gvSIG's features.

2. gvSIG's Community

Which roles are identified on the gvSIG community?

- Developers
- Users (the best testers!)
- Testers
- Translators (docs. and interface)
- Documentation makers
- Business makers
- Software services
- Spreaders
- Community coordinators

Those areas are not isolated, nor the people that work on them. We promote the synergies between them.

Each role is related to a different area of the gvSIG project, where all of them are really important to us.

2. gvSIG's Community

Each area has nowadays lots of collaborators...

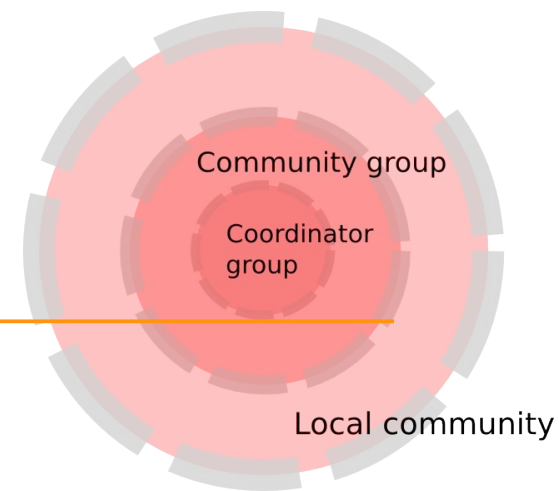
How do we organize all the things that have to be done?

- ☕ We have a responsible for each area (group called PSg),
- ☕ We work in order to create thematic communities,
- ☕ and also geographical communities (linguistic)

The PSg is part of the gvSIG Association, it is its coordination core.

The coordinator groups of each community arises from the own community. They are responsible for committing their own goals at their own way, being an organized net. gvSIG respects their sovereignty.

2. gvSIG's Community



How do we create this organized net?

- ☘ By identifying people at different countries with technical and social abilities interested on gvSIG and FOSS,
- ☘ Contacting them in order to create a coordinator group,
- ☘ Making spreading efforts together (events, workshops, presentations, social networking, etc.)

The main goal is to:

- ☘ encourage the development of gvSIG community in every corner of the world,
- ☘ carrying new ideas about software production
- ☘ promoting technology independence on the GIS field.

2. gvSIG's Community

Examples of organized communities that are on the way right now:

[What are the community groups?](#)

[Information for group coordinators](#)

Geographical communities:

 **Argentina:**
[gvSIG - ar](#)

 **Brazil:**
[gvSIG - br](#)

 **Russia:**
[gvSIG - ru](#)

Linguistic Communities

 **French-speaking:**
[gvSIG - fr](#)

And we are working on:

Italy

Germany

United Kingdom

Uruguay

Chile

Venezuela

Campus (university, etc.)

Women (sopde.es)

2. gvSIG's Community

The Community has collaborative tools in order to carry out its work:

- Technical>>> Open Source Observatory and Repository
Subversion, mailing lists, trackers, ...
Plone for: docs, String Internationalization,
official projects, ...
- Spreading>>> Social networks, planet
Spreading content, case studies,
- Ideological>>> Blog, OpenPlanet, ...

2. gvSIG's Community

From the Community Management area we put a special effort in order to promote the organization of local gvSIG and FOSS4G events. Presence is all!

For 2011 we are helping to achieve:

- Quarte Giornate Italiane di gvSIG (Italia - Udine)
- 2º gvSIG Day in Nottingham (UK - Nottingham)
- 1º Jornadas Nacionales de gvSIG (Uruguay - Montevideo)
- 1º Journée gvSIG à Rennes (Rennes - France)
- 1º Jornadas Nacionales de gvSIG Argentina (Tucumán)
- 3º Jornadas Latinoamerica y Caribe (Itaipú - Brasil)
- 7º Jornadas Internacionales gvSIG (Valencia - España)

2. gvSIG's Community

Are these ideas related to human development, specially on third world countries?

Yes because we think that the clue is to promote the independence,

What kind of independence?

- ☘ The one that provide the technological tools for resolving third world problems at their own way
- ☘ Knowing the technology, people can work with it
- ☘ Knowing the tech, the local industrial fabric can grow
- ☘ Promoting a worldwide organized net, people can collaborate to each other around common interests.

2. gvSIG's Community

If we are able to make all these things happening together, we will be building:

- ☕ a new way of *PRODUCING SOFTWARE* and
- ☕ a new way of *DOING BUSINESSES* on the developing countries (and also on the developed ones!).

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5. gvSIG official projects

Any development made with the software gvSIG can be an official project. The advantages are:

- ☕ Make developments accessible for the whole community, meeting an acceptable quality level (software - docs).
- ☕ Have a guided process by the gvSIG team in order to develop the new features (not duplicated efforts - make things scalable).
- ☕ Have the possibility of releasing the new features under an official version of gvSIG.

5. gvSIG official projects

The main goal of the official projects is to **CONTRIBUTE TO THE gvSIG PROJECT IN AN ORGANIZED MANNER**, providing a **COMPLETE GIS SOFTWARE FULFILLING QUALITY** standards.

Make an official project is a **PROCESS** (time and effort), that needs to be guided by the requirements that the gvSIG project has.

Which are those requirements?

5. gvSIG official projects

Official project requirements at a glance:

One level of *BASIC* official contributions

These contributions are not aimed to be maintained by the gvSIG team, but by contributors themselves, it is included:

- Development
- Testing design and execution
- User manuals

This level of contribution is centred on the packaging and distribution of the new features.

5. gvSIG official projects

Official project requirements at a glance:

Other level of *FULL* official contributions

These contributions are aimed to be maintained by the gvSIG team if necessary, and by contributors themselves, it is included:

- Development
- Development guides
- Testing design and execution
- User manuals

This level of contribution is centred on the development issues such as design, coding or devel guides.

5. gvSIG official projects

Some current examples of official projects:

gvSIG-graphlegend

It's a gvSIG extension that allows users to add legend graphics to views and layouts. It allows to add pie diagrams

Lateral buffer and split line geoprocess

NavTable

gvSIG extension that allows the management of alphanumeric data in a comfortable way.

PostGIS raster connector for gvSIG

Select duplicated rows in table

Ubuntu Package



Thank you very much !!

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