



The gvSIG Project

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UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA



gvSIG
asociación

Contents

1. gvSIG's beginning

2. gvSIG Association

3. gvSIG Community

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/CAD tools.



1. gvSIG's beginning: Origin

There was no advanced FOSS for GIS management to replace closed source GIS tools. At 2004:

Grass ----> Not intuitive graphical interface, most raster oriented
JUMP ----> Not powerful enough

So, CIT took the decision to start developing a GIS product called gvSIG.

 Wasting on licences,

 **Invest money on a FOSS tool.**

1. gvSIG's beginning: Evolution

Two main products were developed as local projects:



gvSIG Desktop (PCs/indoor) and

gvSIG Mobile (mobile devices/outdoor)

gvSIG wanted 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.

1. gvSIG's beginning: Evolution

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



Several FOSS projects **ended before starting** (grants),



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!

**FOSS is not only
sharing source code!!!**

1. gvSIG's beginning: Evolution

How to build a **solid community** around gvSIG?






The clue is the
gvSIG community

But,
**What does community
mean???**

1. gvSIG's beginning: Evolution

How to build a **solid community** around gvSIG?

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 in the future (GPL license, publishing manuals, tutorials, presentations, etc.)

1. gvSIG's beginning: Evolution

How to build a **solid community** around gvSIG?

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



Modularity in order to make the collaborations easier and to have a scalable software,



Internationalization to enable translation management, we think that location of software is important in the FOSS.

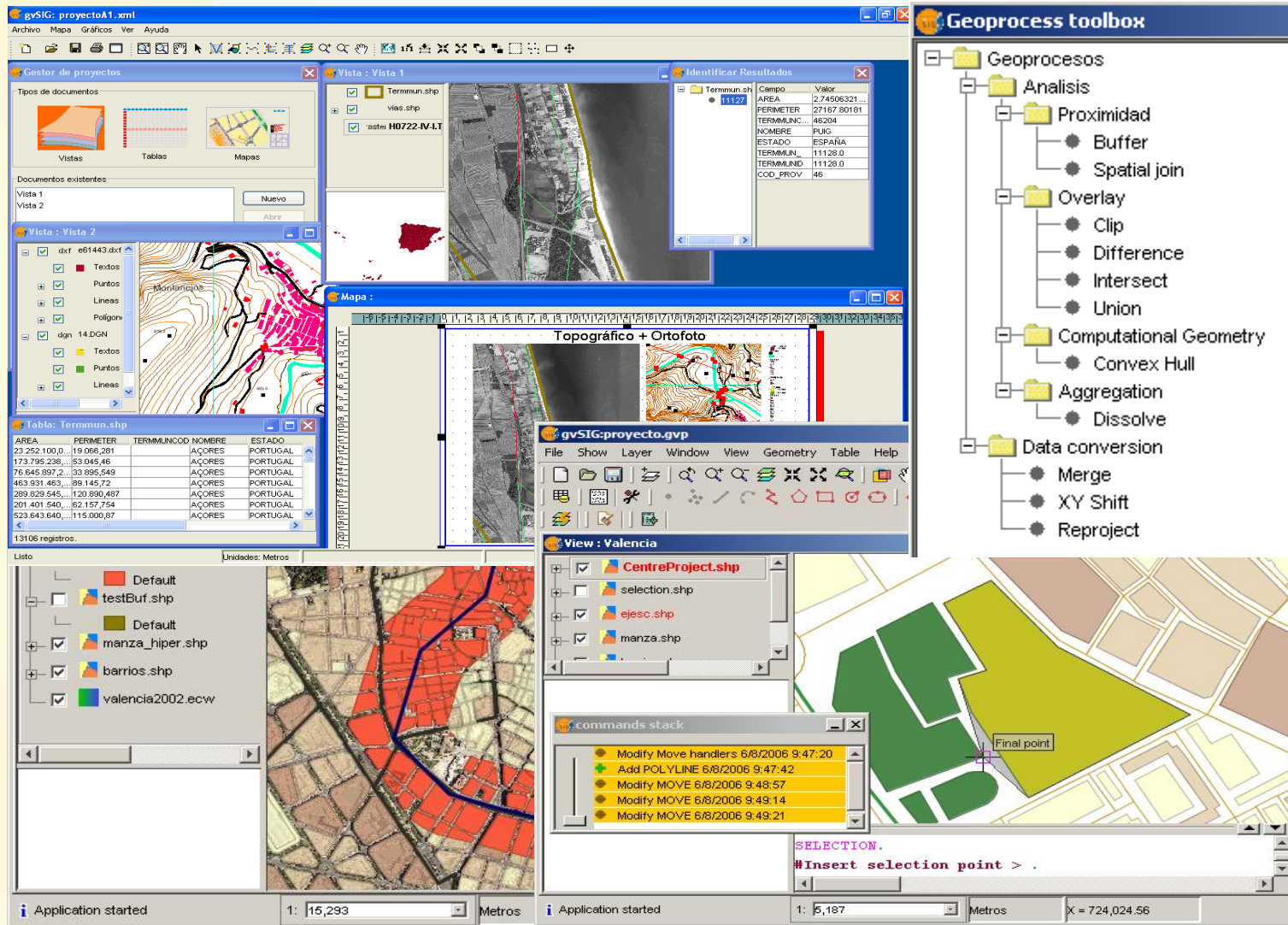
1. gvSIG Desktop: Characteristics

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



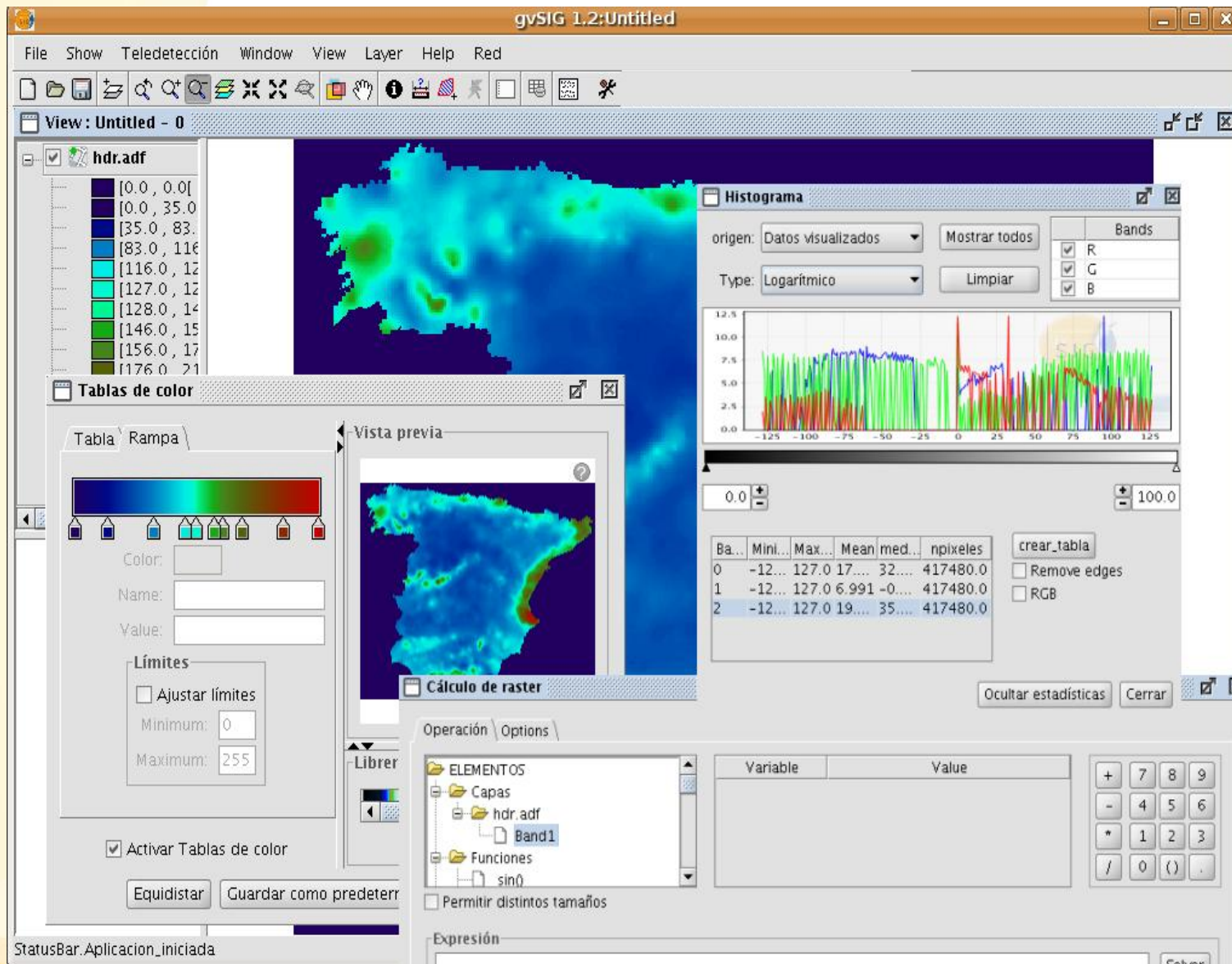
The screenshot displays the gvSIG Desktop interface with several key components:

- Geoprocess toolbox:** A tree view of geoprocessing tools including:
 - Analysis
 - Proximidad
 - Buffer
 - Spatial join
 - Overlay
 - Clip
 - Difference
 - Intersect
 - Union
 - Computational Geometry
 - Convex Hull
 - Aggregation
 - Dissolve
 - Data conversion
 - Merge
 - XY Shift
 - Reproject
- Mapa:** The main map window showing a topographic and orthophoto overlay. A red polygon is visible on the map.
- Tabla: Termunun.shp:** A data table with the following columns and rows:

AREA	PERIMETER	TERMMUNCOD	NOMBRE	ESTADO
23.252.100,0...	119.066,201		JAÇORES	PORTUGAL
173.795.238...	53.045,46		JAÇORES	PORTUGAL
76.645.897,2...	33.895,549		JAÇORES	PORTUGAL
463.931.463...	89.145,72		JAÇORES	PORTUGAL
289.929.545...	120.890,487		JAÇORES	PORTUGAL
201.401.540...	62.157,754		JAÇORES	PORTUGAL
523.843.640...	115.000,87		JAÇORES	PORTUGAL
- Identificar Resultados:** A small table showing search results for 'Termunun.shp':

Campo	Valor
AREA	2.74506321...
PERIMETER	27167.80161
TERMMUNCOD	46204
NOMBRE	PLUG
ESTADO	ESPAÑA
TERMMUN	11128.0
TERMMUNID	11129.0
CCO_PROV	46
- Layers Panel:** Shows a list of layers including 'Default', 'testBuf.shp', 'manza_hiper.shp', 'barrios.shp', and 'valencia2002.ecw'.
- Commands Stack:** A list of recent actions such as 'Modify Move handlers', 'Add POLYLINE', and 'Modify MOVE'.
- Map Legend:** A legend for the 'View: Valencia' map, showing a red polygon and a green polygon.

1. gvSIG Desktop: Characteristics



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

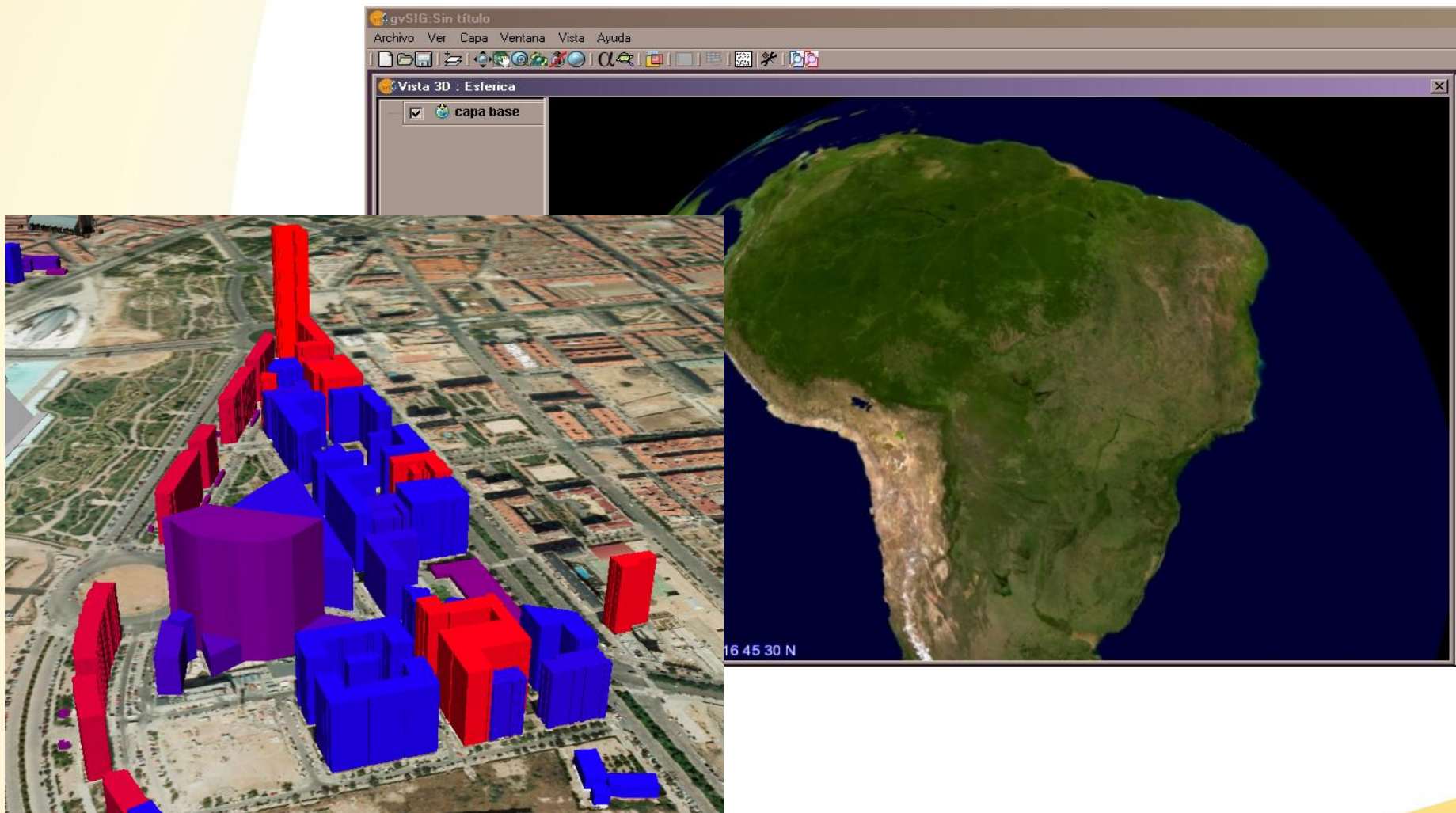
- Menu Bar:** File, Show, Teledetección, Window, View, Layer, Help, Red.
- Toolbar:** Standard GIS navigation and editing tools.
- View: Untitled - 0:** Main map window showing a satellite-style image.
- Layers Panel:**
 - Layer: **hdr.adf**
 - Legend:

[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]
[176.0, 211.0]
- Histograma:**
 - origen: Datos visualizados
 - Type: Logaritmico
 - Graph: Shows a multi-colored histogram of pixel values.
 - Statistics Table:

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:**
 - Tabla: Rampa
 - Vista previa: Small map showing the color ramp effect.
 - Options:
 - Ajustar límites
 - Minimum: 0
 - Maximum: 255
 - Activar Tablas de color
- Operación / Options:**
 - Variable: (Empty)
 - Value: (Empty)
 - Buttons: +, -, *, /, 7-9, 4-6, 1-3, 0, (), .
- Librería:**
 - ELEMENTOS
 - Capas
 - hdr.adf
 - Band1
 - Funciones
 - sin()
- Permitir distintos tamaños

- Expresión:** (Empty text field)

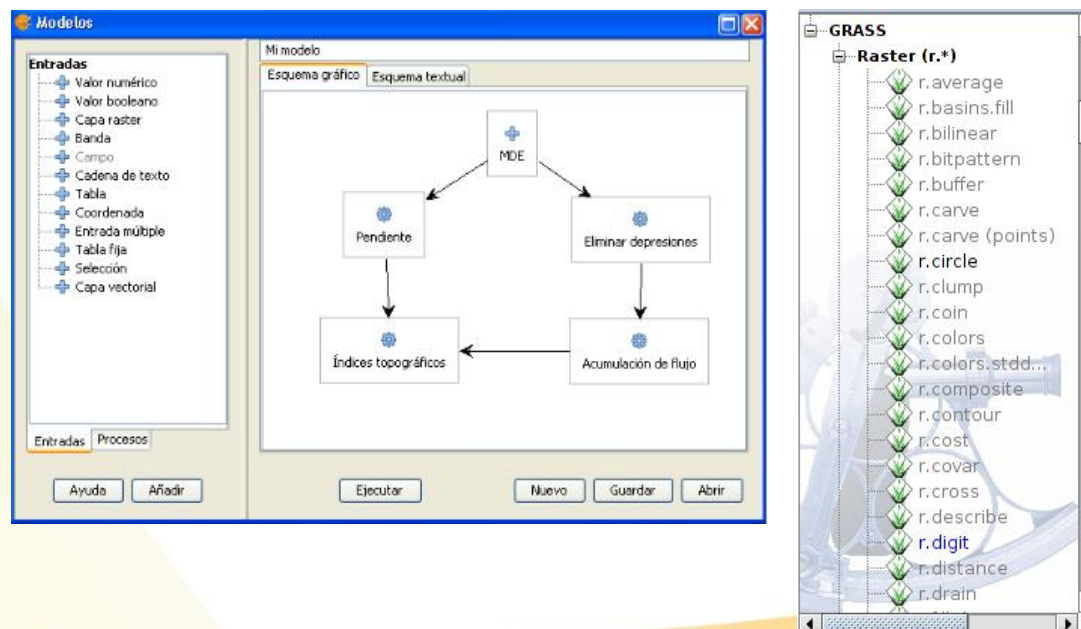
1. gvSIG Desktop: Characteristics



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



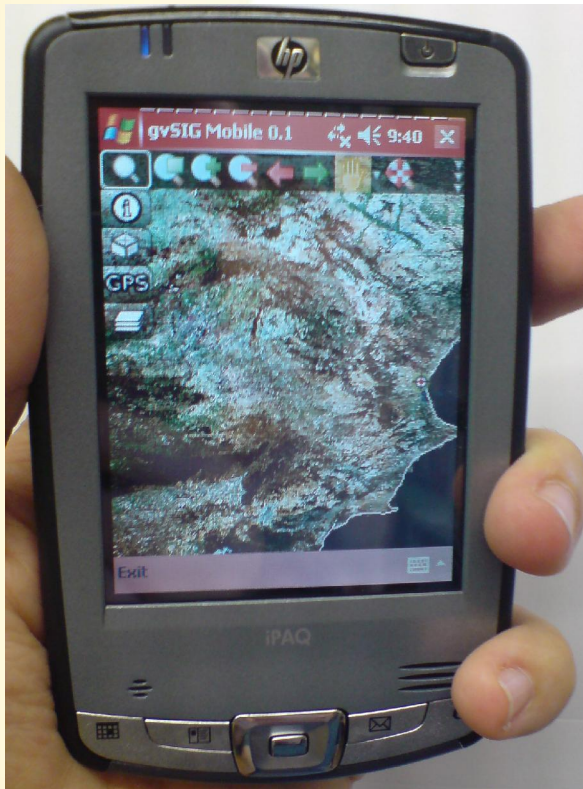
1. gvSIG Mobile: Characteristics

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



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3. gvSIG Community

2. gvSIG Association

From the gvSIG project started a **fast evolution** at:

Community of **users**



Community of **developers**

Cluster of **SMEs**



Collaborative Infrastructure and a Professional Structure (coords.)
to have a stable organization that guarantee the sustainability of
the project.

2. gvSIG Association

The gvSIG Association was born at 2009.

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



www.gvsig.com

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

The gvSIG Association wants to:

Help to build a **competitive industrial fabric** (worldwide net of SMEs) with technological independence for its members,

Find a common area for Universities – Public Administrations – SMEs, to **generate synergies to promote the benefit of all of them**,

Build a development model for gvSIG based on the **generation of wealth and self-sustaining** (instead of asking for grants).



2. gvSIG Association

The gvSIG Association has:



nowadays 5, which 4 of them are founding members.

Collaborators ---> 28, from 9 different countries.

Honour members ---> 20 from Universities, Regional Ministries, R&D centers, Laboratories, Technological Institutes, ...

gvSIG Association: Members and H. M.



A world map where the landmasses are filled with the names of member organizations. Red lines connect callout boxes to specific locations on the map.

Callout Boxes:

- CGS** Centre for Geographic Science
- UNIVERSITÉ RENNES 2**
- creativa** (with logo)
- Provincia de Guarulhos** (with logo)
- IDESF** Infraestructura de Datos Espaciales de la Provincia de Santa Fe
- Programa Nacional Mapa Educativo**
- Ministerio de Educación** (with logo)
- Gobierno Provincia de Corrientes** (with logo)
- Sit Santa Cruz** (with logo)

Member Logos on the Right:

- proDEVELOP** Integración de tecnologías
- Software Colaborativo icarto**
- IVER** TECNOLOGIAS
- GENERALITAT VALENCIANA** CONSELLERIA D'INFRAESTRUCTURES I TRANSPORT
- ai2** (with logo)
- ITI** INSTITUTO TECNOLÓGICO DE INFORMÁTICA
- UNIVERSITAT POLITÈCNICA DE CATALUNYA** (with logo)
- LatinGEO** (with logo)
- UOC** (with logo)
- Universitat de Girona** (with logo)
- UNIVERSITAT JAUME I** (with logo)
- CESTUBU** (with logo)

Map Labels: GREENLAND, PANAMA, USA, MEXICO, BRAZIL, ARGENTINA, URUGUAY, CHILE, PERU, COLOMBIA, VENEZUELA, GUINEA, LIBIA, YEMEN, SIRIA, TURKEY, IRAN, AFGHANISTAN, PAKISTAN, INDIA, CHINA, VIETNAM, THAILAND, MALAYSIA, AUSTRALIA.

gvSIG Association: Collaborators



The image displays a world map where country names are rendered in large, bold, black letters. Surrounding the map are various logos of organizations that collaborate with the gvSIG Association. Red lines connect these logos to their corresponding geographical locations on the map.

Logos on the left side:

- TERRA GIS: Topografía, Ecosistemas, Recursos, Análisis
- IDEASG
- OpenGEO
- GAUSS: geotecnología e ingeniería
- xoomcode: floor plan GIS
- geoopensource: geoinformática

Logos on the right side:

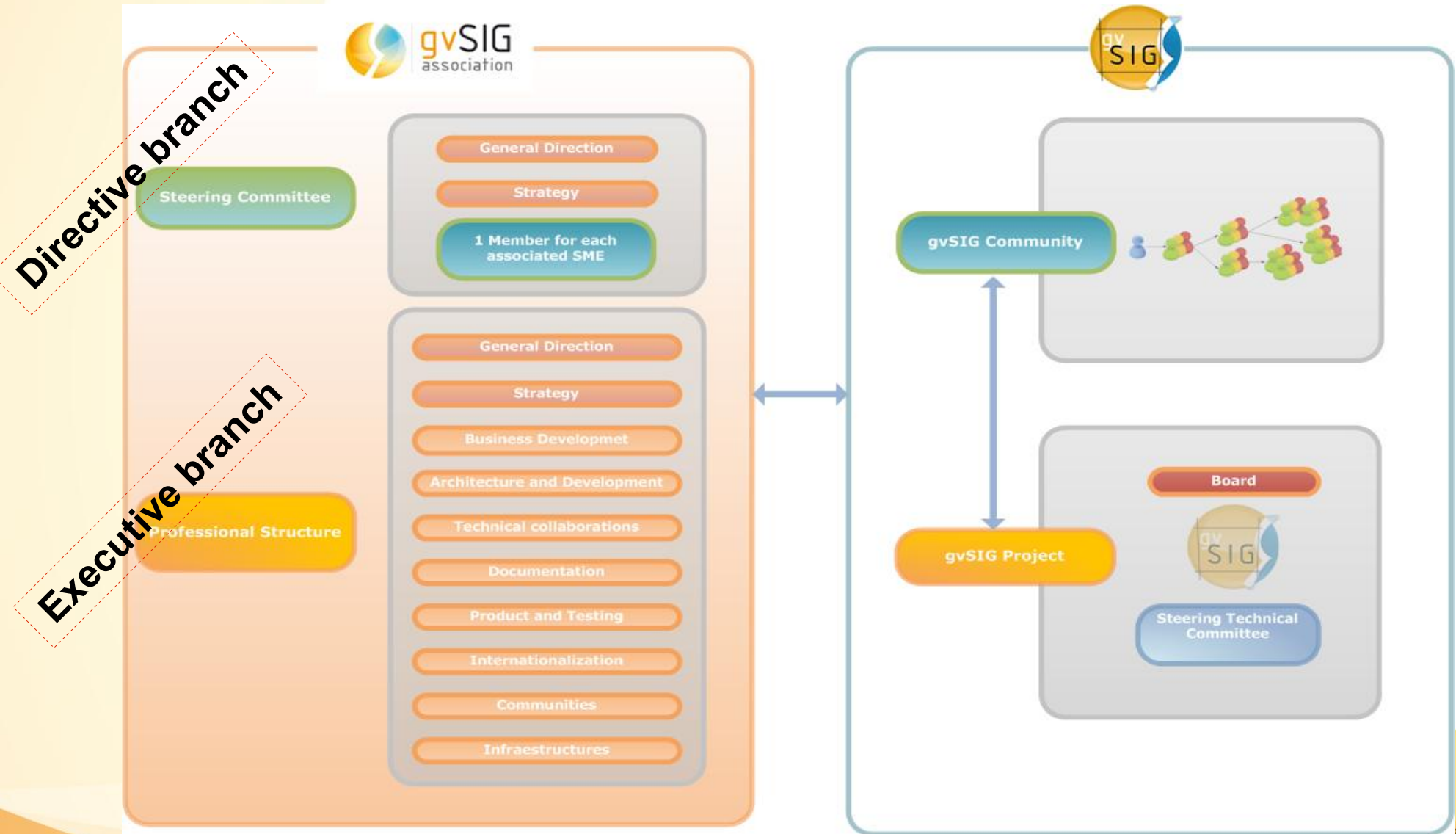
- Georepublic
- gismap
- OSID
- DIEMO
- enosat
- SIG A MAP: Geosistemas S.L.U
- enxenio: el mundo interactivo para elegir mejor
- excentia
- giservices.eu
- M Model Driven Development
- Sixtema
- geodato
- gis
- avansig
- sopde.es: Sociedad de Planificación y Desarrollo
- EMERGYA
- Avalon
- SIGTel
- VERTEX: VERDADERA

Logo at the bottom center:

- EDUATION GIS SOLUTIONS



gvSIG Ecosystem

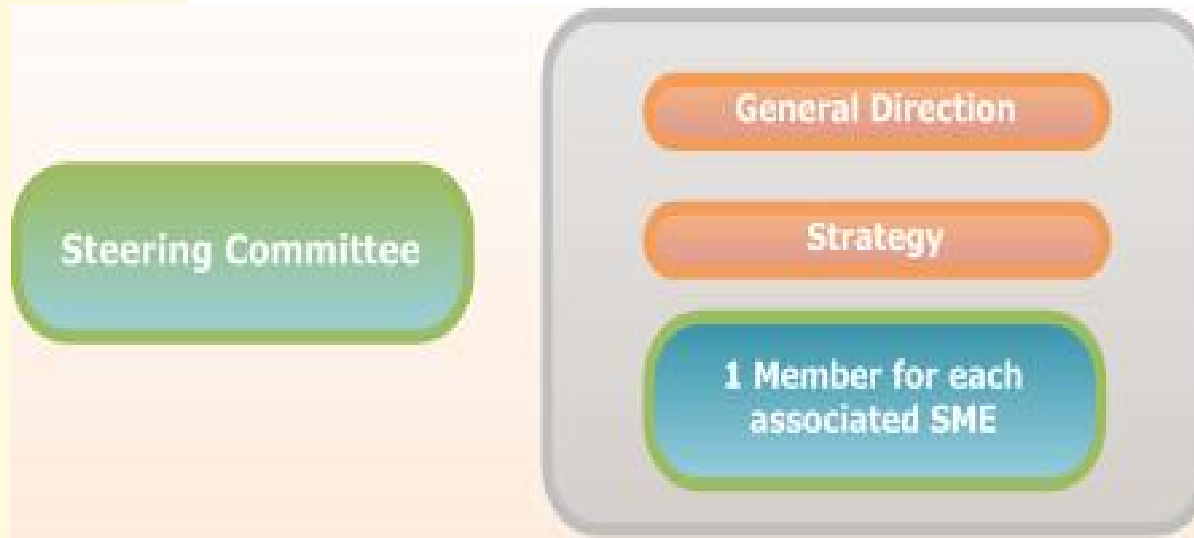




gvSIG Ecosystem



gvSIG Association: Directive branch



General Direction composed by the **General Manager** and the **Business Development Manager**,

1 Associated Member = 1 vote,

Decision on **gvSIG Association operation** are taken

gvSIG Association: Executive branch

Professional Structure that is in charge of the coordination of tasks related to the maintenance of the gvSIG Project.

Professional Structure

General Direction

Strategy

Business Developmet

Architecture and Development

Technical collaborations

Documentation

Product and Testing

Internationalization

Communities

Infraestructures

gvSIG Association: Technical committee



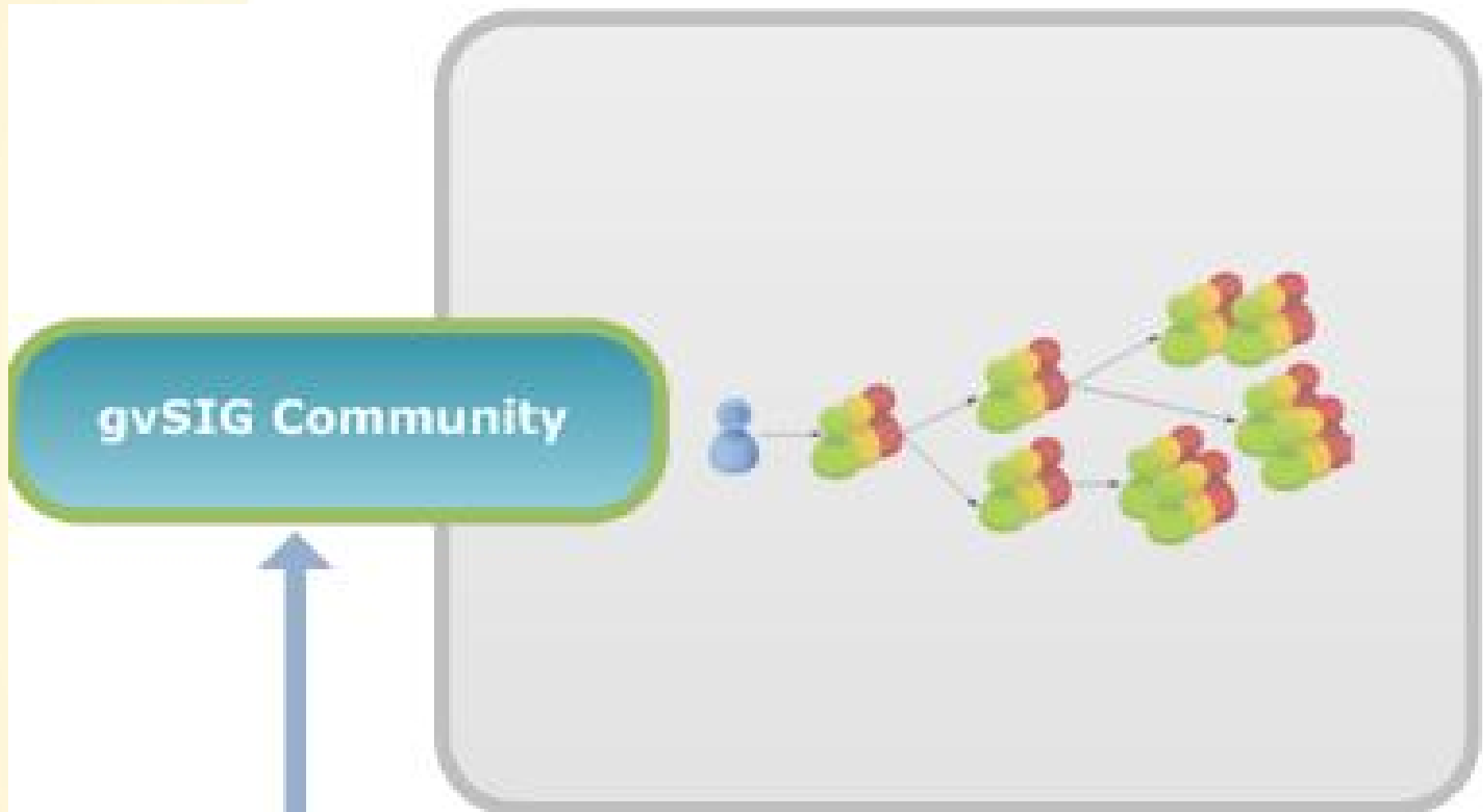
It is a place for technical discussion.

The STC is composed by 24 persons whose knowledge is relevant in some development area. The Board has 9 representatives.



Working groups' creation around a problem to solve it.

gvSIG Ecosystem: Community



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3. gvSIG's Community

How to build a **solid community** around gvSIG?



The clue is the
gvSIG community,
it is our ***major value***.

But,
**What does community
mean???**

3. gvSIG's Community

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

persons from universities, enterprises and public adm.

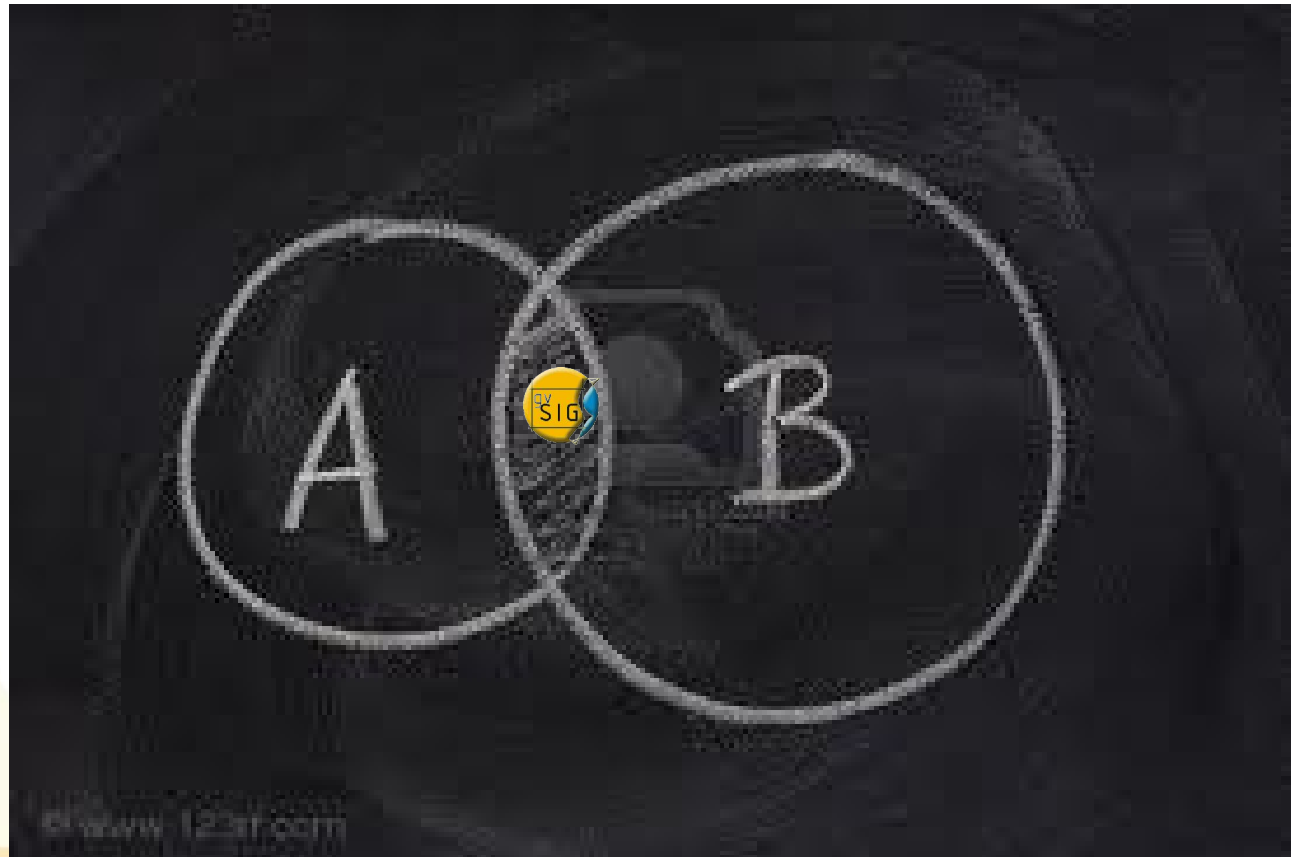


Institutions (one upper level of participation):
Universities (Labs, Faculties, etc.),
Enterprises (SME, local industrial fabrics),
Public Administrations.



3. gvSIG's Community

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.***



3. gvSIG's Community

Community based on **voluntary people** (developers, testers, etc.) working on their spare time on FOSS4G?

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



3. gvSIG's Community

Which roles are identified on the gvSIG community?

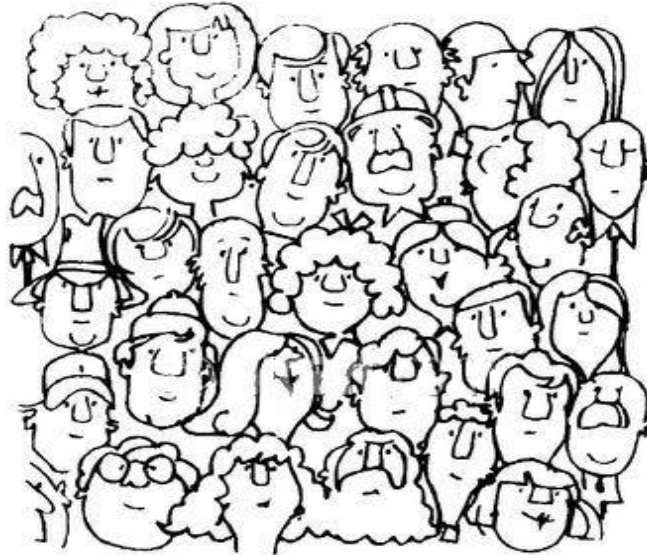
- ☛ Developers
- ☛ Users (the best testers!)
- ☛ Testers
- ☛ Translators (docs. and interface)
- ☛ Documentation makers
- ☛ Business makers
- ☛ Software services
- ☛ Spreaders
- ☛ Community coordinators

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



3. 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)

3. gvSIG's Community

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

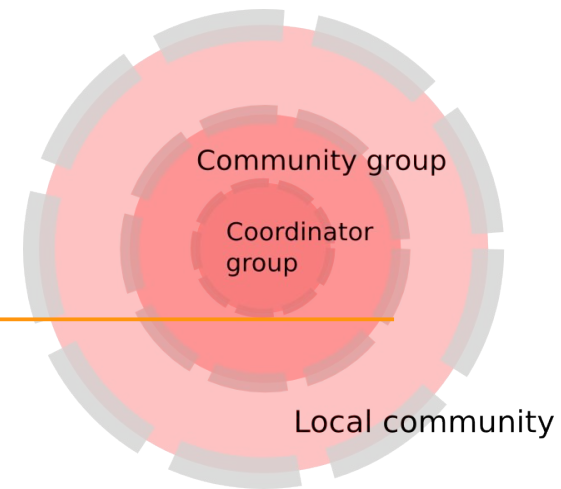
- ☘ We work in order to create thematic communities,
- ☘ and also geographical communities (local, linguistic)

The coordinator groups of each community arises from the own community.



They are responsible for committing their own goals at their own way, we do not impose the rules. gvSIG respects their sovereignty.

3. 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.)



3. 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](#)

 **Uruguay:**
[gvSIG - uy](#)

Linguistic Communities

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

Thematic communities:

And we are working on:

Italy

Germany

United Kingdom

Uruguay

Chile

Venezuela

Campus (university, etc.)

Women (sopde.es)

3. Campus Community

Since 2010 a Final Projects working group has been working on tutoring final university students (mainly from UOC, UMH and UPM).

gvSIG Campus Community

by [Victoria Silene Agazzi](#) — last modified 2011-03-10 13:47

▲ Up one level

◀ Previous Communauté gvSIG francophone



Next: Motivation and goals ▶

[Cómo usar e interpretar esta página](#)



Motivation and goals

Motivation

This group of community emerges as a result of the work done mainly by universities [UOC](#), [UMH](#) [UPV](#) on final projects during 2010. This new stage focuses on expanding this working group, promoting the participation of universities and tertiary training institutions in different countries and different areas (not only computer sciences, but also geomatics, town planning, etc..) having interest to undertake student's work related to gvSIG products (Desktop, Mobile, Mini or multiple extensions).

Goals

- Work on the development of final projects, dissertations for masters, doctoral theses, or any other task that requires an idea, a student and a tutor.
- Provide ideas / proposals for carrying them out as final projects. In addition to the ideas there will be needed to provide more information in order to properly size up the work to be done. These proposals may be used by tutors and students, because their access would be public.
- Maintain good communication between the different participants in order to facilitate synergies between them on issues related to the development of these projects. In this sense, it'll be

All kind of tertiary institutions interested!

3. gvSIG's Community

For development and testing collaborations we use the Osor platform (Open Source Observatory and Repository):



Subversion

Trackers (tickets for bugs, features)

Mailing lists

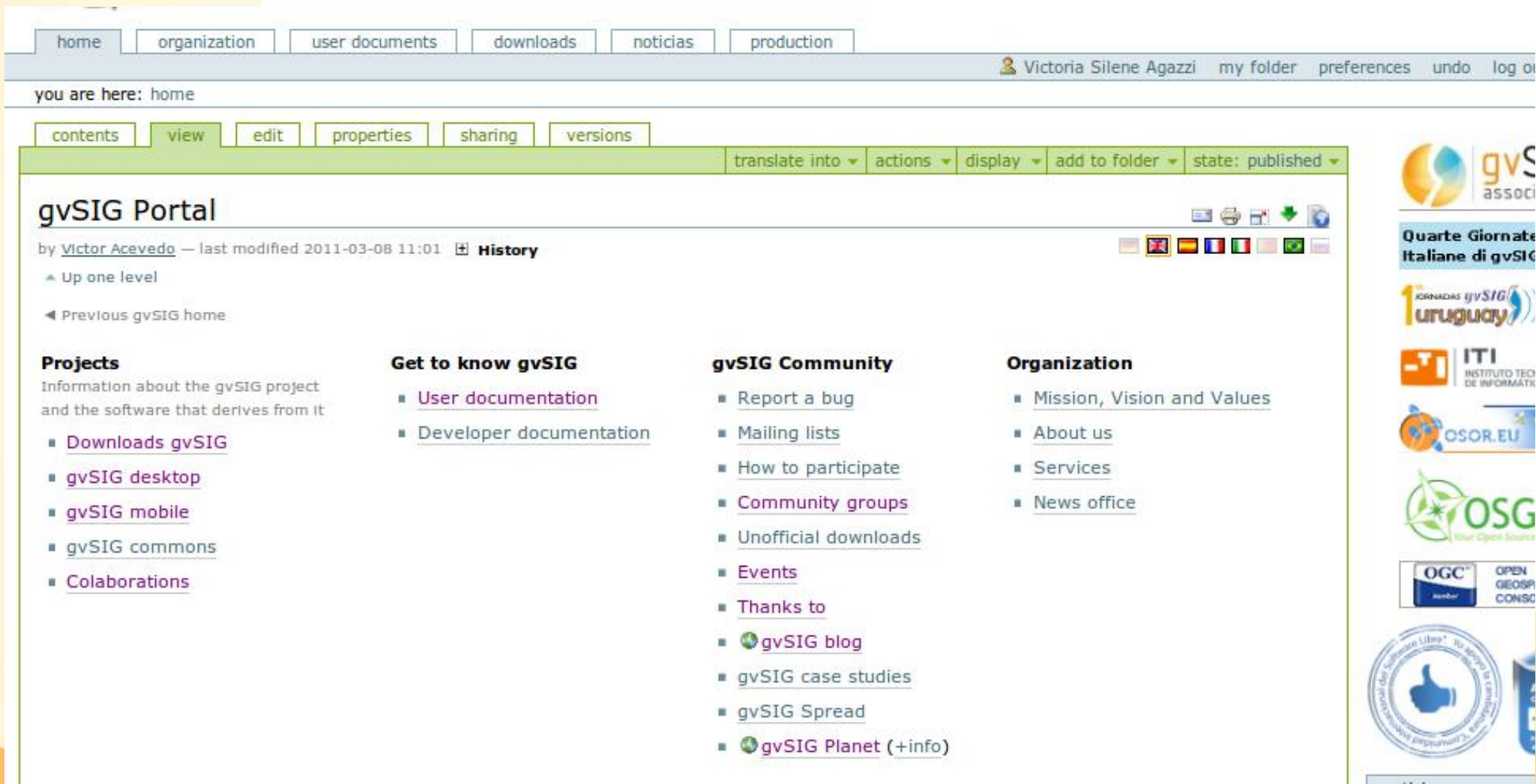
Development projects can be official (good level quality), or non official. Both have their web site on the gvSIG Plone tool.

**Official
contributions**

**Non Official
contributions**

3. gvSIG's Community

gvSIG Plone Tool: The web site of the gvSIG Community



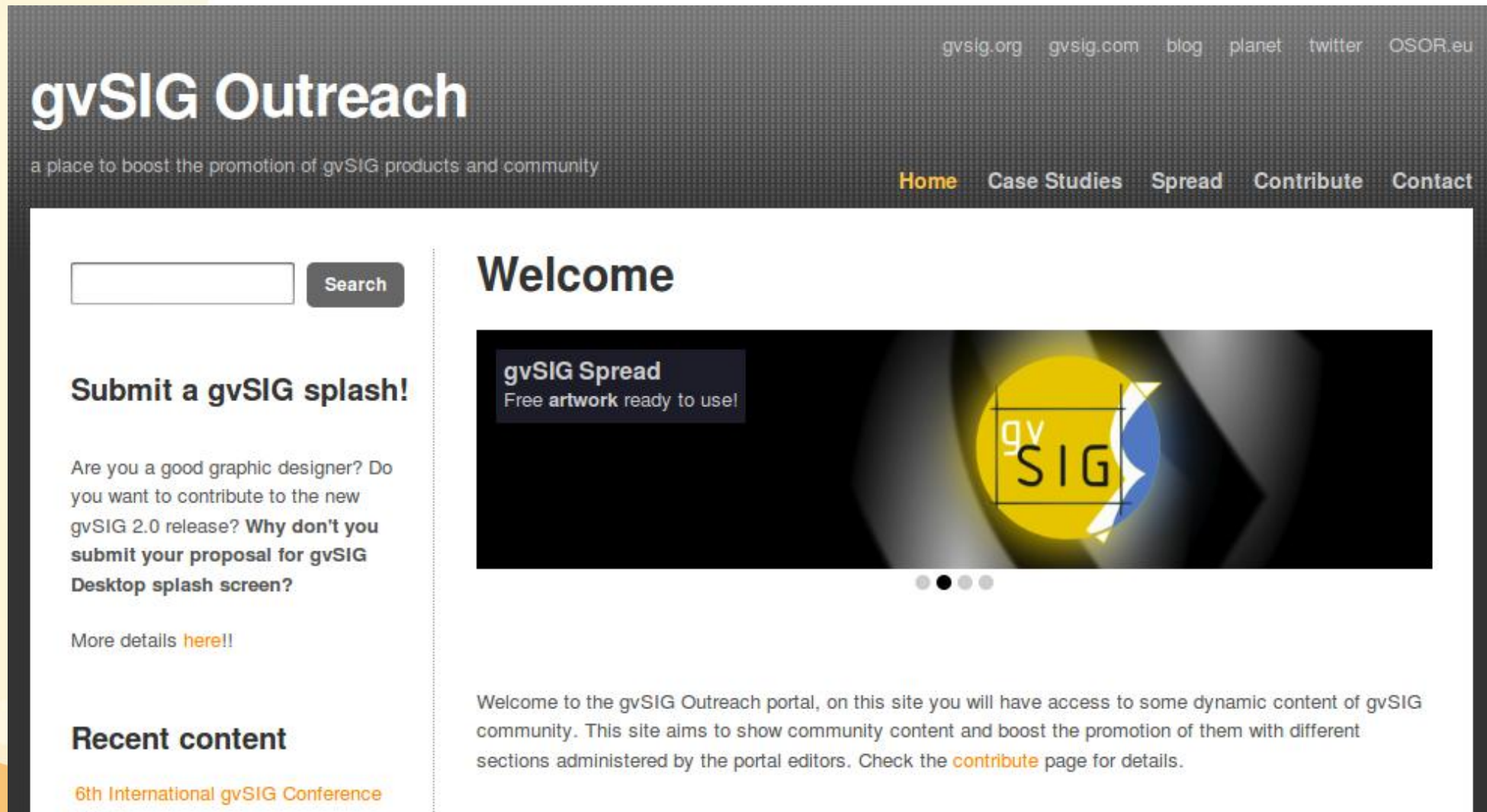
The screenshot shows the gvSIG Portal website interface. At the top, there is a navigation menu with links for home, organization, user documents, downloads, noticias, and production. A user profile for Victoria Silene Agazzi is visible in the top right corner. Below the navigation, there is a breadcrumb trail indicating the current location is 'home'. A secondary navigation bar includes links for contents, view, edit, properties, sharing, and versions. The main content area is titled 'gvSIG Portal' and includes a byline for Victor Acevedo, last modified on 2011-03-08. The page is organized into four columns of content:

- Projects:** Information about the gvSIG project and the software that derives from it. Links include Downloads gvSIG, gvSIG desktop, gvSIG mobile, gvSIG commons, and Colaborations.
- Get to know gvSIG:** Links for User documentation and Developer documentation.
- gvSIG Community:** A list of links including Report a bug, Mailing lists, How to participate, Community groups, Unofficial downloads, Events, Thanks to, gvSIG blog, gvSIG case studies, gvSIG Spread, and gvSIG Planet (+info).
- Organization:** Links for Mission, Vision and Values, About us, Services, and News office.

On the right side of the page, there is a vertical stack of logos and banners, including the gvSIG asociación logo, 'Quarte Giornate Italiane di gvSIG', 'JORNADAS gvSIG Uruguay', 'ITI INSTITUTO TECNICO DE INFORMÁTICA', 'OSOR.EU', 'OSG Your Open Source', 'OGC member', 'OPEN GEOSPATIAL CONSORTIUM', and a circular logo with a thumbs up icon.

3. gvSIG's Community

gvSIG Outreach: use cases of gvSIG and spreading materials.



The screenshot shows the gvSIG Outreach website. At the top right, there are links for [gvSIG.org](#), [gvSIG.com](#), [blog](#), [planet](#), [twitter](#), and [OSOR.eu](#). The main header features the title "gvSIG Outreach" and the tagline "a place to boost the promotion of gvSIG products and community". A navigation menu includes [Home](#), [Case Studies](#), [Spread](#), [Contribute](#), and [Contact](#).

On the left side, there is a search bar with a "Search" button. Below it, a section titled "Submit a gvSIG splash!" asks if the user is a graphic designer and wants to contribute to the new gvSIG 2.0 release. It encourages users to submit proposals for a Desktop splash screen and provides a link for more details. A "Recent content" section lists the "6th International gvSIG Conference".

The main content area features a "Welcome" message and a "gvSIG Spread" banner. The banner includes the text "Free artwork ready to use" and a large gvSIG logo. Below the banner are three small circular indicators.

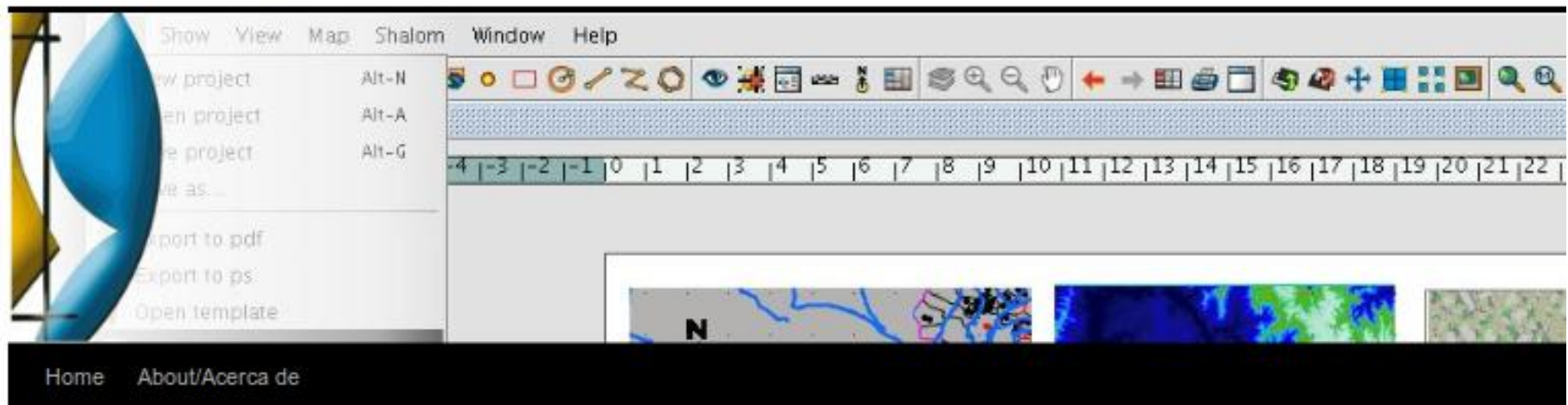
At the bottom, a paragraph welcomes visitors to the Outreach portal, explaining its purpose to show community content and boost promotion through various sections administered by editors. It directs users to the [contribute](#) page for more information.

3. gvSIG's Community

Social networking: gvSIG Blog, gvSIG Planet, Twitter, Facebook

gvSIG blog

gvSIG project team blog



← One month of the Planet gvSIG

¿Software Libre: Trabajo de voluntariado o Servicios Profesionales →

1as Jornadas Sudamericanas FOSS4G

Posted on [21/03/2011](#) by [Jorge](#)

[César Medina](#) ha movido por las listas un evento que me gustaría compartir en el blog. Se trata de la organización de las [primeras jornadas Sudamericanas FOSS4G](#), un evento de un día que tendrá lugar en la Universidad Mayor de Santiago de Chile.



Category Cloud

[community](#) [development](#)
[english](#) [events](#) [GUI](#) [gvSIG](#)
[Association](#) [gvSIG Desktop](#)
[gvSIG mini](#) [gvSIG Mobile](#) [gvSIG](#)
[products](#) [opinion](#) [portuguese](#)
[press office](#) [SDI](#) [spanish](#)
[technical](#) [collaborations](#) [testing](#)

3. gvSIG's Community

We also promote the organization of local 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)

3. gvSIG's Community

Ok, this sound nice; *but what can I do?*

Subscribe to a mailing list (users, developers, next Campus list!)

Testing gvSIG and reporting bugs to trackers

Translating gvSIG interface into your language

Translating gvSIG manuals

Writing articles and use cases

Developing new extensions

Any other contribution is welcome!



If you are interested, please contact us!



Thank you very much !!

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Asociación gvSIG
www.gvsig.com



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