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## GIS-Association Russian Federation Madrid, 14-04-2008

# gvSIG: Open Source to manage geographic information

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## What are we going to see?

-  **Structure and main characteristics**
-  **Dimension of the project**
-  **Collaboration model**









## Project background: gvSIG

-  Conselleria de Infraestructuras y Transporte (CIT) or Dept of Infrastructures and Transport, is the maximum authority in the Generalitat Valenciana (government of the Valencian Community) for Public Works, Transport, Architecture, Ports and Coasts, and Energy.
-  Migration project to free software solutions.
-  An advanced GIS Client was missing: Let's invent it.
-  A fast evolution: Conselleria, Generalitat --> National and international.



## Structure and main characteristics

-  Development language: Java (Multiplatform).
-  Adheres to the guidelines of the European Union - Inspire.
-  Free license (GNU/GPL).
-  Modular, scalable, powerful.
-  Simple interface: user friendly.
-  International (spanish, valencian, english, basque, gallego, french, italian, portuguese, german, czech, polish, romanian and mandarin).

R & D & I Project





## Structure and main characteristics

- **Complementing GIS – SDI world**
- **Different interesting areas have been developed under a horizontal platform: Vectorial, raster, network, analysis, 3D, Mobile, ...**
- **Global aim: Give solutions to all needs related to the geographic information management based on the integration of free technologies**



## Structure and main characteristics

RASTER

NETWORKS

3D

gvSIG MOBILE

WEB SERVICES PUBLISHING

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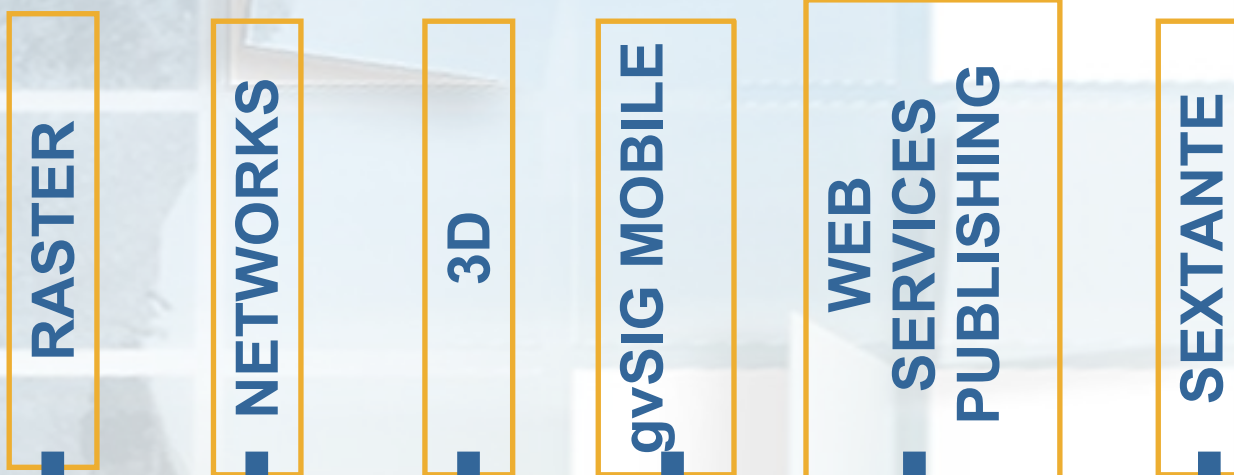


gvSIG: GIS – SDI Client





## Structure and main characteristics



- Reprojections
- Geoprocessing
- Web Services (SDI)
- Symbology

- Edition
- Spatial Database
- Topology
- Labelling



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# Structure and main characteristics

gvSIG, Integrated management: **GIS client**

Tool to manage geographic information, mapping edition, geoprocessing...

The screenshot displays the gvSIG software interface with several windows open:

- View: Valencia:** Shows a map with a red polygon and a blue line. The layer list includes 'metro\_line', 'Default', 'testClip.shp', 'testBuf.shp', 'manza\_hiper.shp', 'barrios.shp', and 'valencia2002.ecw'.
- Herramientas de análisis:** A dialog box for 'Área de influencia' (Buffer) with input cover 'barrios.shp' and options for 'Área de influencia definida por una distancia' and 'Área de influencia definida por un campo'.
- Identificar Resultados:** A table showing search results for 'Terminun.shp':
 

Campo	Valor
TERMINUN	2.74506321
PERIMETER	27167.829181
TERMINUN	46204
NOMBRE	PLUS
ESTADO	ESPAÑA
TERMINUN	11128.0
TERMINUN	11128.0
COD_PROV	46
- Mapa:** Shows a 'Topográfico + Ortofoto' view with a red line and a scale of 1:5,187.
- Computational Geometry:** A tree view showing tools like 'Convex Hull', 'Aggregation', 'Dissolve', 'Merge', 'XY Shift', and 'Reproject'.



I+D+I



UNION EUROPEA FONDO EUROPEO DE DESARROLLO REGIONAL



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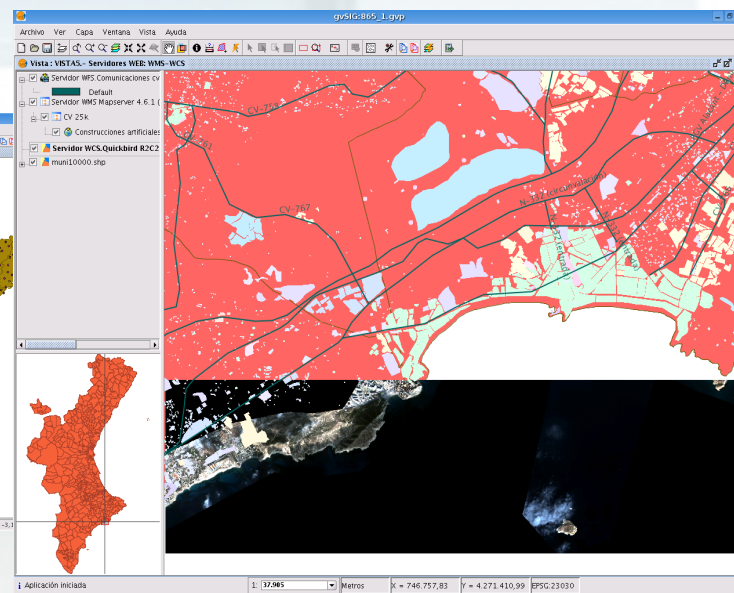
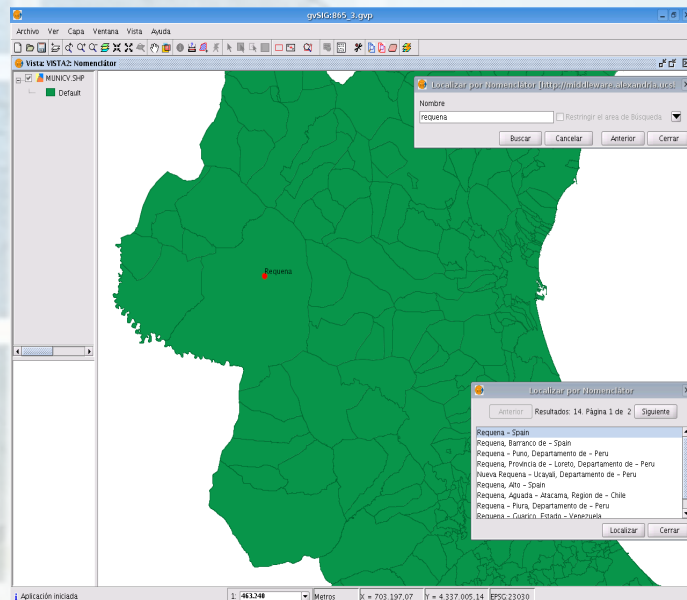
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# Structure and main characteristics

gvSIG, Integrated management: **SDI Client**

Display and query services (WMS, WCS and WFS servers), searching services (Catalogue client) and location services (Gazetteer client).



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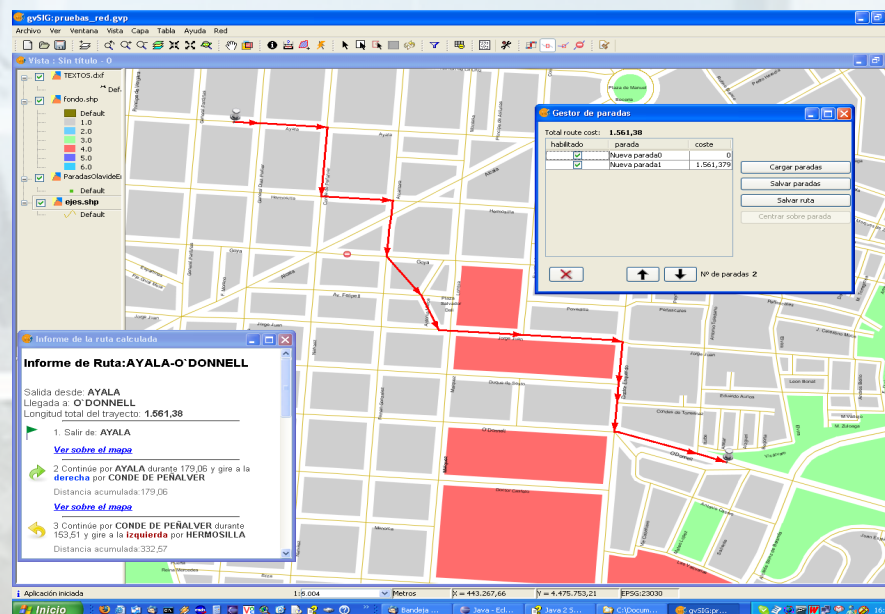
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# Structure and main characteristics

gvSIG, Integrated management: **Network analysis and new features**

Optimal path calculation, topology, more geoprocessing, advanced symbology...



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# Structure and main characteristics

## gvSIG, Integrated management: **Raster analysis**

### Georeferencing, Histogram view...

The screenshot shows the gvSIG interface with a histogram window open. The histogram displays a distribution of values with a table below it:

Banda	Mínimo	Máximo	Medida	Mediana	Número de píxeles
0	0	255	129	125	965469
1	0	255	127	123	965469
2	0	255	126	126	965469

Overlaid on the screenshot is a central box with the text:

**Collaboration with SEXTANTE project**



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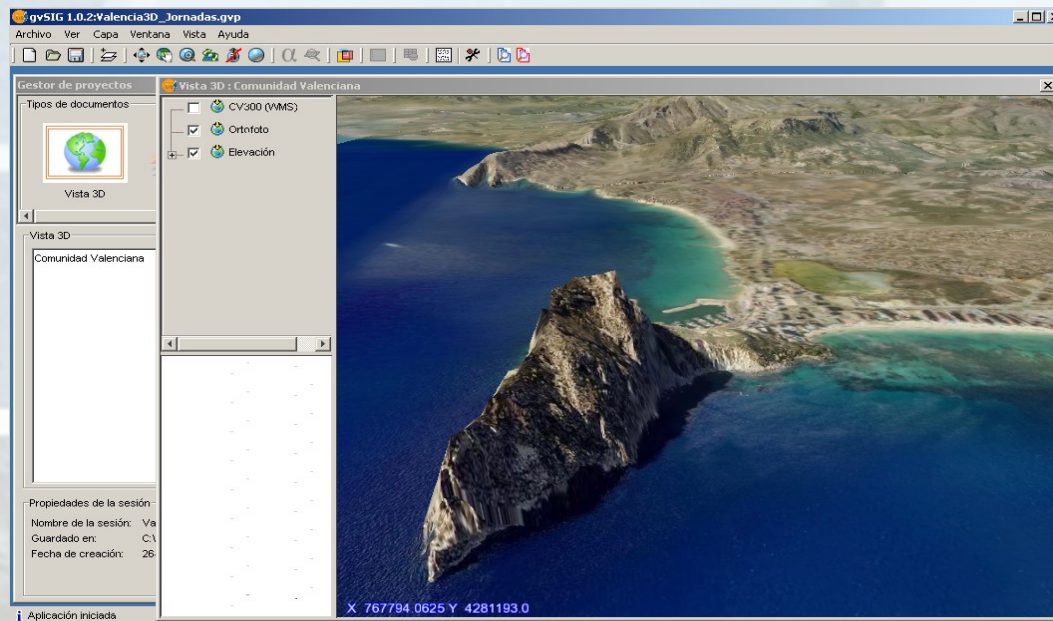




# Structure and main characteristics

gvSIG, Integrated management: **3D**

gvSIG 3D: Access to 3D characteristics





## Structure and main characteristics

gvSIG, Integrated management: **Mobile devices**

Integration of gvSIG into mobile devices: telephony, PDA...





## Structure and main characteristics

gvSIG, Integrated management: **Future projects**



Geostatistics



gvSIG 4D (temporal GIS)



Connection with sensors



Road map:

<http://www.gvsig.gva.es/index.php?id=1814&L=2>

**“gvSIG is a path that we can build together”**

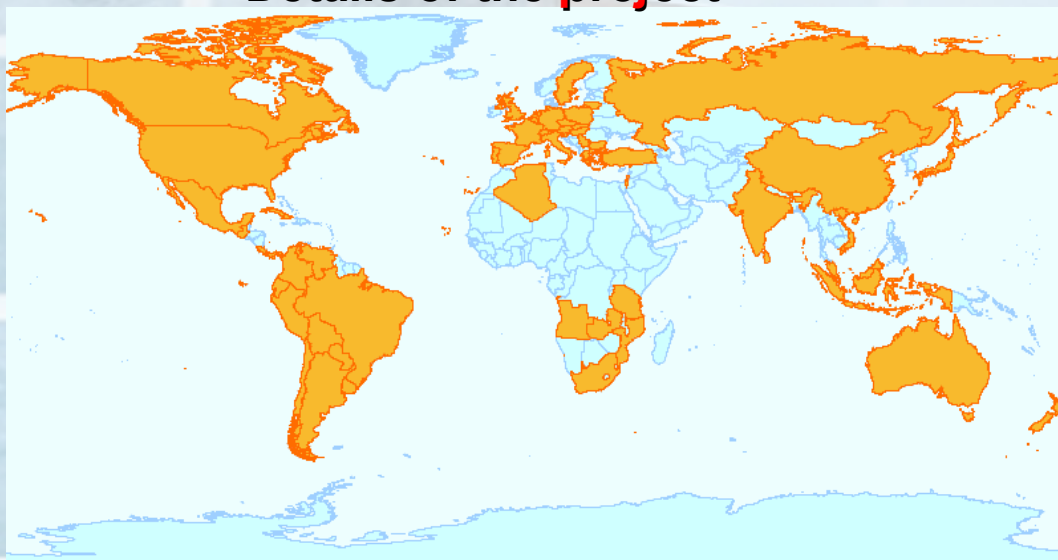




# Dimension of the project



## Details of the project



**Installations in the Generalitat: (over 400)**

**Mailing lists:**

- Users list: 899
- Developers list: 504
- International list: 357
- Italian list: 107

**Known countries with registered users: 40**

**Known countries where gvSIG has been downloaded: 57**



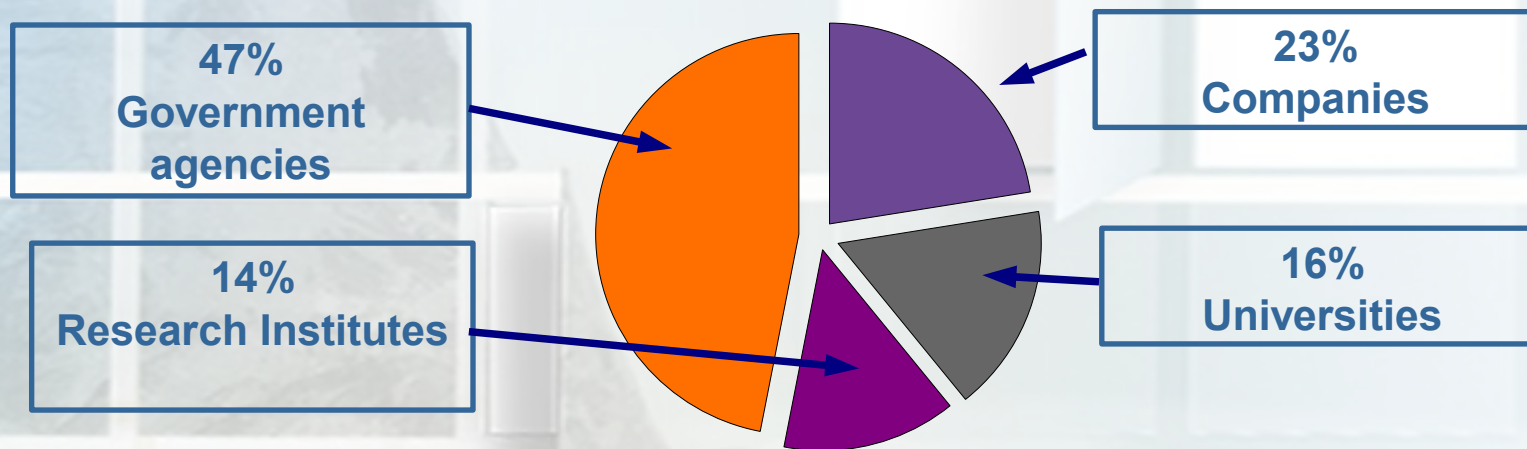


## Dimension of the project



### Collaborations: gvSIG shares knowledge

- gvSIG is backed by the European Union.
- Over 100 public and private organizations collaborate in it.
- Over 300 qualified professionals and 23 companies from Spain, Europe and Latin America work on it.







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## Collaboration model gvSIG: their keys

 Young but successful.

# Why?

Points of difference



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## Collaboration model gvSIG: their keys

### Points of difference

#### 1- To interpret the Free Software model: Sharing and collaborating

- Accessing source code and binary without restrictions
- Support: mailing lists
- Offering many kinds of collaboration and support

Target: Building scenarios to enrich the project

**“Giving 100 and asking for 10”**



# Collaboration models gvSIG: their keys

## Points of difference

### 2- Evolution

- 1. Critical mass of users. Growth.
- 2. Critical mass of developers. Adding wealth.
- Offering support and documentation for both groups
- Target: Consolidating the Community

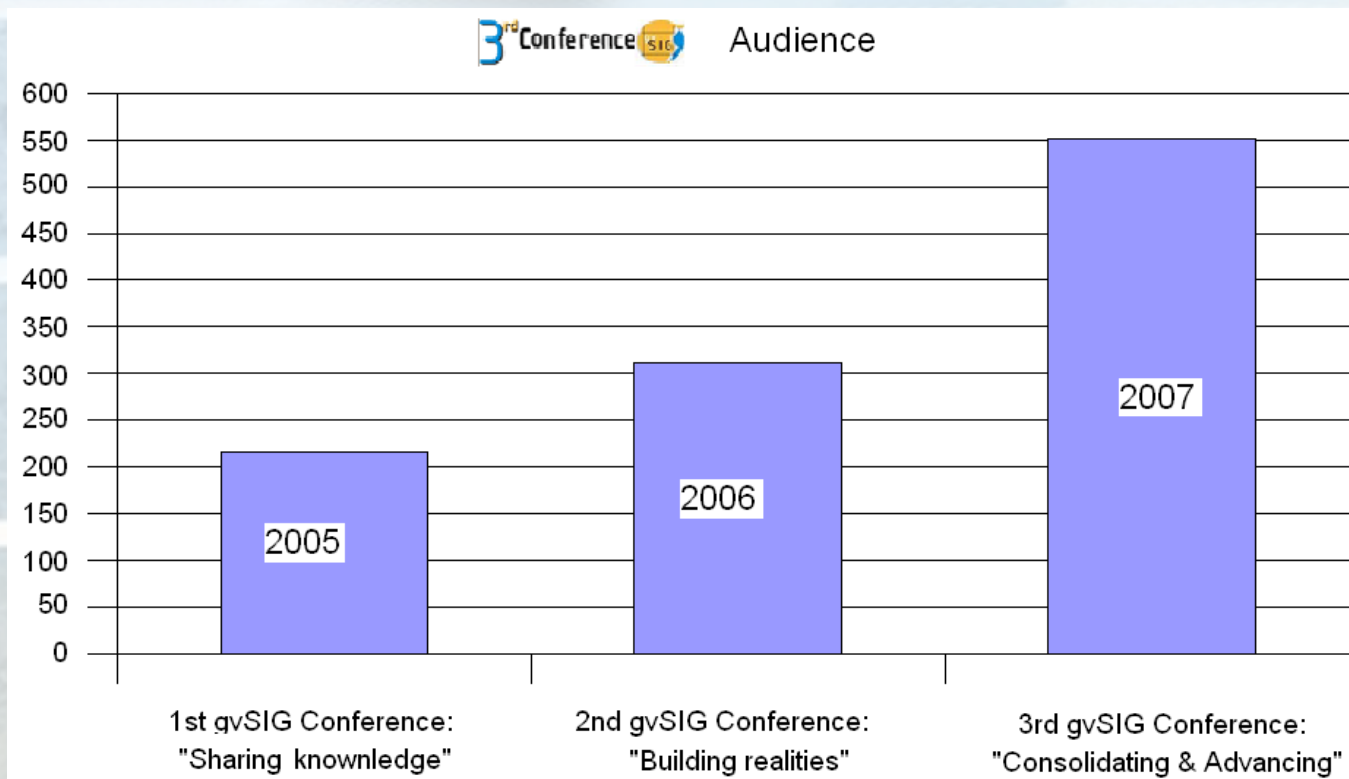
**“Today, this is our main organizational task”**



# Collaboration



## Collaborations: gvSIG shares knowledge



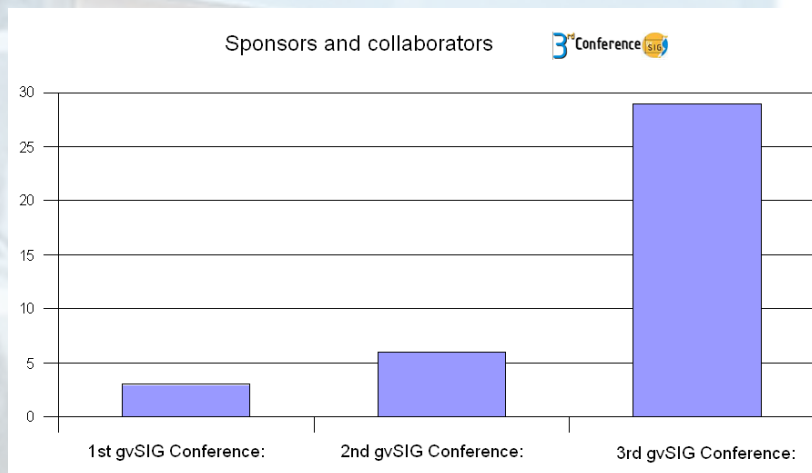


# Collaboration



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## Collaborations: gvSIG shares knowledge



<p><b>Patrocinan:</b></p> <p><b>Patrocinador de Honor</b></p> <p><b>Patrocinador ORO</b></p> <p><b>Patrocinador PLATA</b></p>	<p><b>Patrocinador BRONCE</b></p> <p><b>Colaboraciones</b></p> <p><b>Medios asociados:</b></p>
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**Collaboration**



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**Collaborations: gvSIG shares knowledge**

# 4th gvSIG Conference



**December 2008**



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## Collaboration model gvSIG: their keys

### Points of difference

#### 3- Main actors synergy

 Government.

 Companies.

 Universities.

**Target: “Finding the common area where everyone benefits.”**



## Collaboration model gvSIG: their keys

### Government:

- Technological independence
- Optimization of investment. **Dedicate to what?**
- **Quality industrial structure**

### Companies:

- Remove the heavy dependence on multinationals.
- Specialist on ~~brands~~  Specialist in technologies
- To increase competitiveness.
- Strategic independence. To be able to plan independently.
- Business model based on Free Software.

### Universities:

- Promoting professional opportunities.
- R & D & I Projects.





# Where are we going?. gvSIG a collaborative project

## oaSIG: Open Organization

**oaSIG**, a project which aims to build an infrastructure to make collaboration easy, allowing any organization to integrate to the gvSIG project, easily, directly and openly.

**"Making collaboration easier promotes development"**



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# oaSIG: "Putting the project in the hands of the community"

## Collaborative infrastructure



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## oaSIG. Technical features

-  **User and developers documentation.**
-  **Catalogue of projects.**
-  **Collaborative testing.**
-  **Translations.**
-  **International mailing lists.**



...the latest surprise



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http://gvsig.rifo.net/

gvSIG в России - Главная - Mozilla Firefox

Archivo Editar Ver Historial Marcadores Herramientas Ayuda

http://gvsig.rifo.net/

Comenzar a usar Fire... Últimas noticias

Реклама от Google GIS Photoshop GIS VB Map Location GIS Free

Главная Контакты Новости Скачать

Поиск...

КРАТКИЕ НОВОСТИ

Сайт проиндексирован и, можно сказать, официально открыт!

9 марта - ДР сайта!!

Работает на Joomla! версия 1.0.12 RE

ОПРОСЫ

КТО НА САЙТЕ?

Сейчас на сайте находятся: 1 гость

ПОСЛЕДНИЕ НОВОСТИ

- Растовое расширение возможностей
- gvSIG теперь и в телефоне
- gvSIG 1.1.2
- О развитии геоинформационных систем
- Руководство разработчика интерактивной карты

ПОПУЛЯРНОЕ

- gvSIG 1.1.2
- Руководство разработчика интерактивной карты
- Инновационные технологии в обучении студентов
- gvSIG теперь и в телефоне
- gvSIG 1.1.1 совместим с ArcSDE

Главная

**Растовое расширение возможностей**

Автор: Administrator

05.04.2008 г.

Стала доступна для скачивания новая версия плагина для gvSIG 1.1.x, увеличивающая возможность работы с растровыми форматами.

Новый выпуск растрового пилота был выпущен. Это доступно от секции Расширений.

Проблемы, установленные в этой версии: Ошибка, проверяя предпосылки. Прикладная пусковая установка нашла JRE 1.4 вместо JRE 1.5.

Предупреждение: чтобы устанавливать расширение. Вы должны иметь gvSIG 1.1.x

Terminado



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***Consolidating and advancing***

**<http://www.gvsig.gva.es>**

**<https://gvsig.org>**



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