

gvSIG case studies

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- 1. What's gvSIG
- 2. gvSIG Community
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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.



gvSIG Desktop: Characteristics

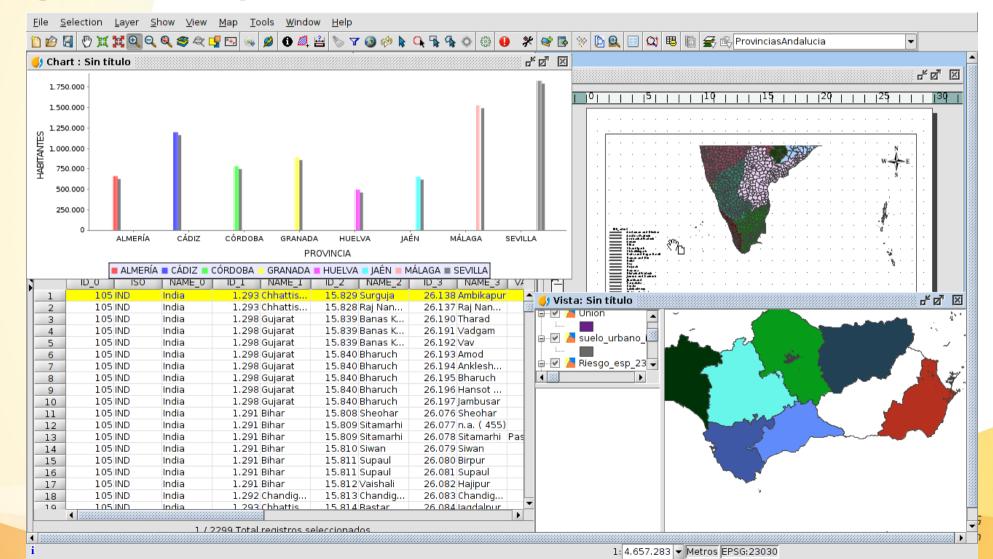
gvSIG Desktop is currently one of the most complete GIS.

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)

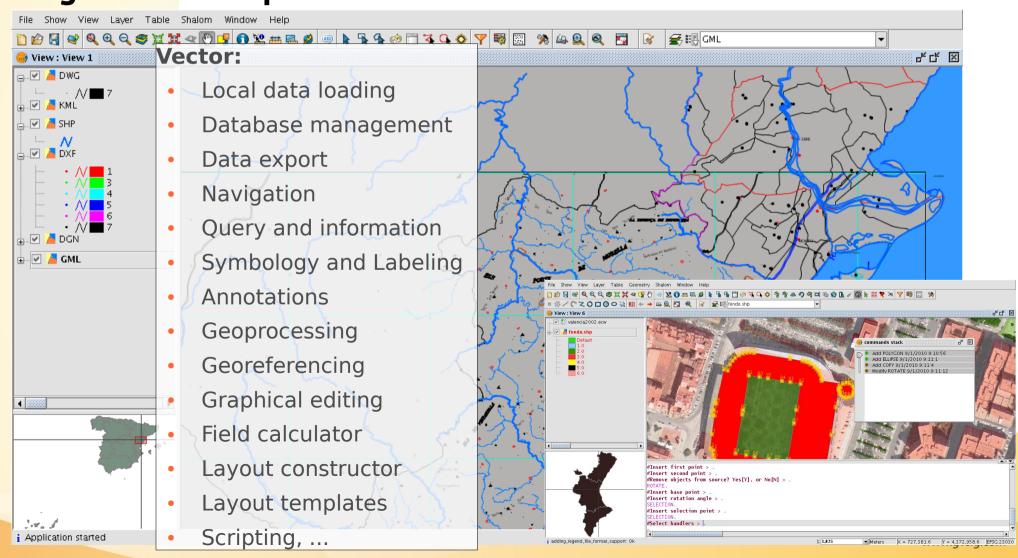
Main characteristics:

- Multi-platform: Linux, Windows, Mac OS X
- Multi-language
- Simple interface: user friendly
- Customizable
- GIS + SDI client (Spatial Data Infrastructure / OGC standards)

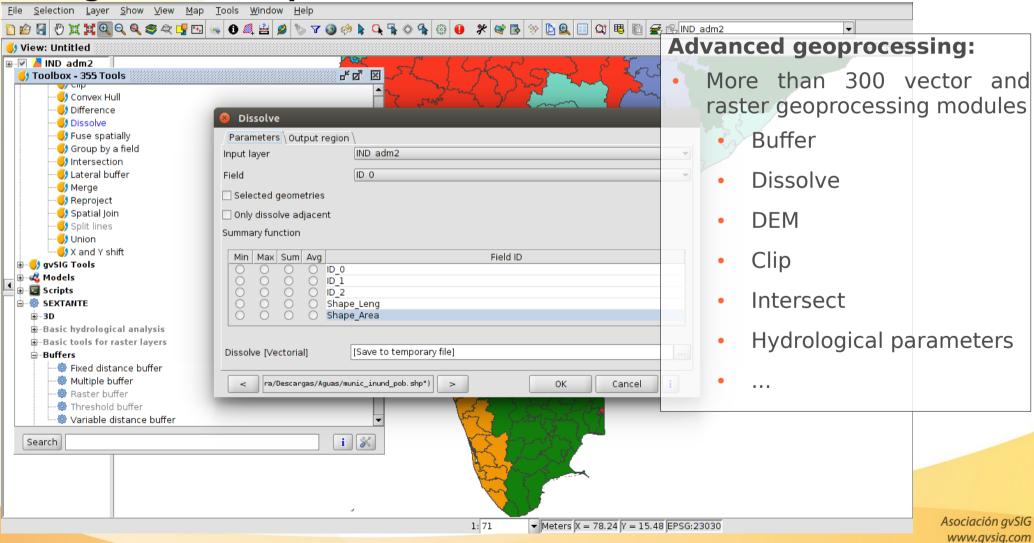




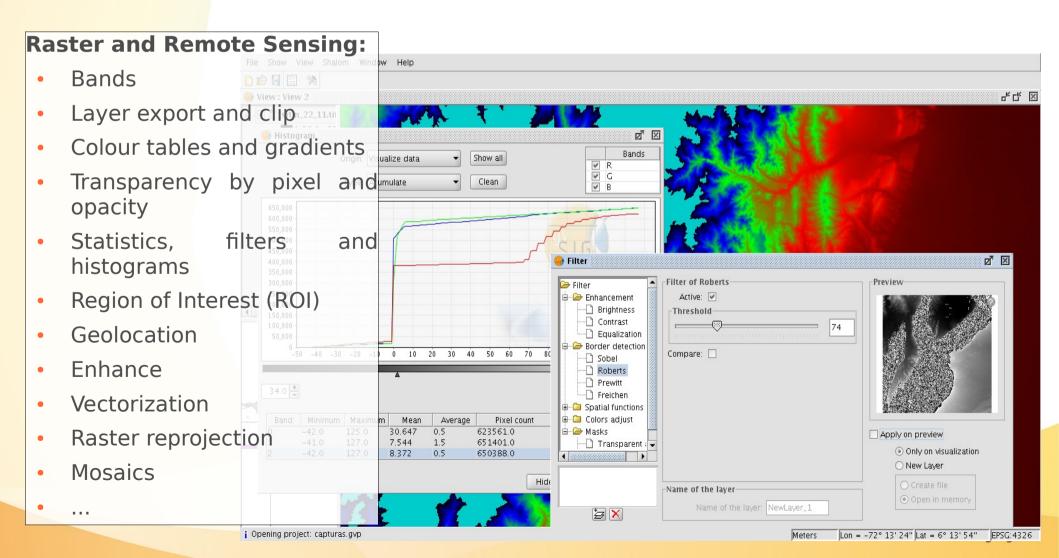




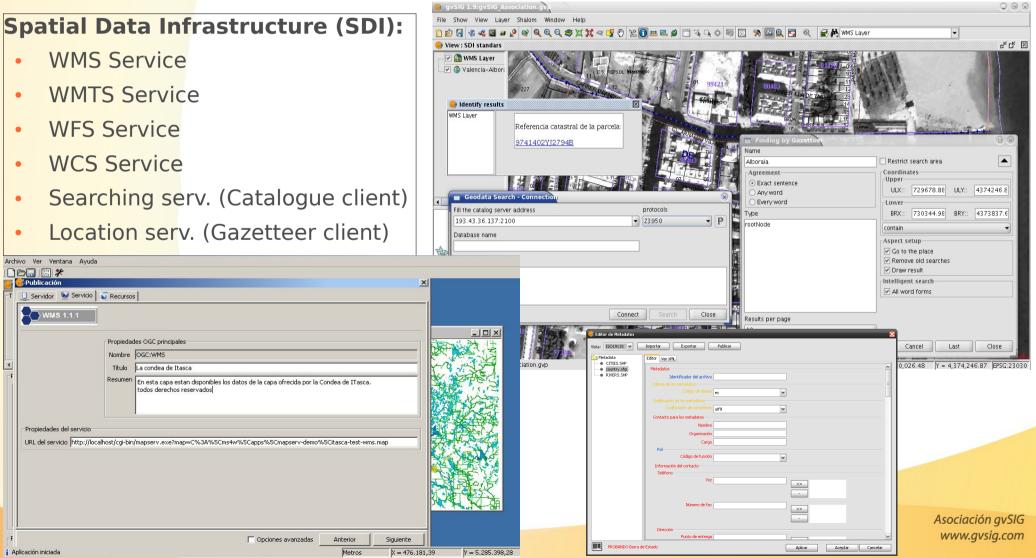




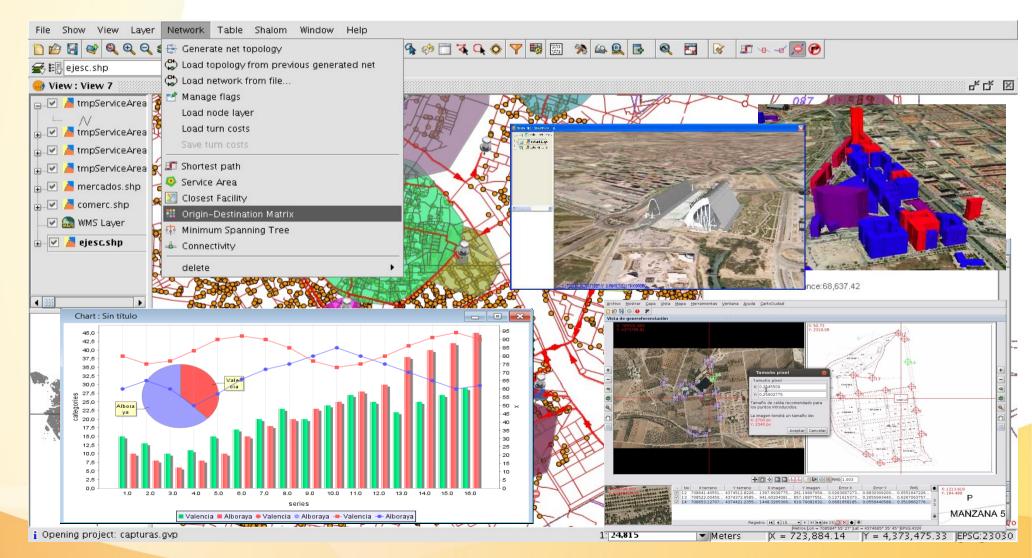








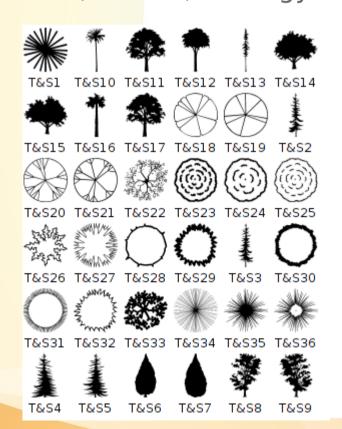


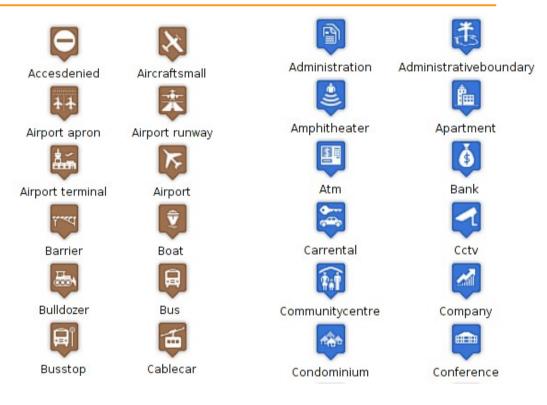


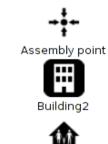


Symbols:

Symbols for Forestry, Criminology, Infrastructures, Tourism, Health, Geology...









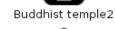
Church



Church2

















Community building Community building2 Diplomatic mission Diplomatic mission2









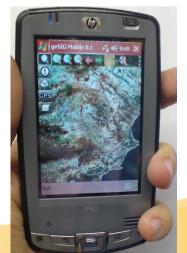




gvSIG Mobile: Characteristics

- 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









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.

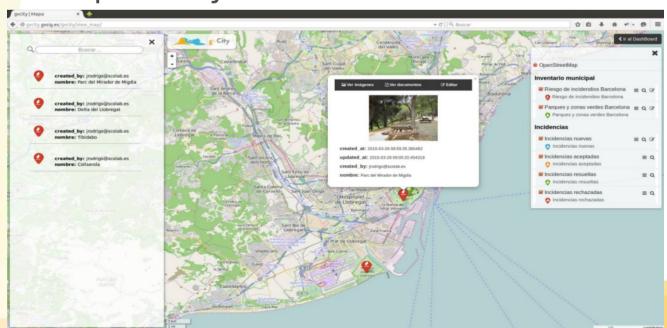






gvSIG City: Characteristics

- gvSIG City is a suite for inventory, incidents and open data management.
- It includes a private mobile application for inventory data capture, and a public mobile application for incidents capture by citizens.





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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...





2. gvSIG Community

















Blog, Planet, Outreach, Twitter, Facebook...



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3. gvSIG Association

Who are we?

- It was born in 2009.
- Composed of companies and non business entities (universities, geographical institutes,...).
- It constitutes the biggest international network of experts in free geomatics.
- References and clients in more than twenty countries.
- Model based on the shared knowledge and the collaboration. Knowledge is transferred to the client.
- We offer learning, consulting, supporting, developments...



3. gvSIG Association

Clients and references: Some consulting examples

- Spatial Data Infrastructure. PDVSA (Venezuela)
- Migration from ArcGIS to gvSIG. Munich City Council (Germany)
- GIS analysis for urban areas. UN-Habitat (Kenya)
- Multimodal transport geoportal in Valencia (Spain)
- gvSIG development for cadastral management (Mexico)
- GIS for solid waste management in Basque Country (Spain)
- GIS for road management in the region of Valencia (Spain)



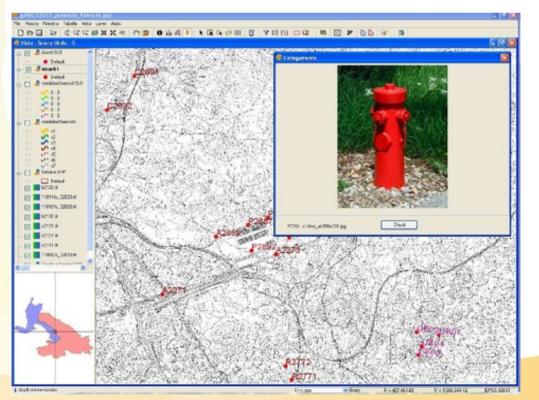
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gvSIG in forestry, firefighting and environmental management in the provinces of Trieste, Gorizia (Italy) and Sežana (Slovenia)

The administrations of both countries (Italy and Slovenia) collaborated and shared data and knowledge on gvSIG. They used gvSIG Desktop for office work and gvSIG Mobile for field work.

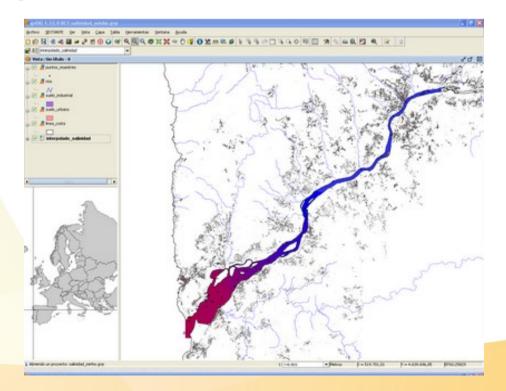






Analysis of contaminants and salinity in the Minhoriver for the European Project

Determination of the spatial distribution of different physicochemical parameters (salinity, phosphate, ammonium, nitrate and nitrite), at both at low and high tide, at the estuary of the Minho river.

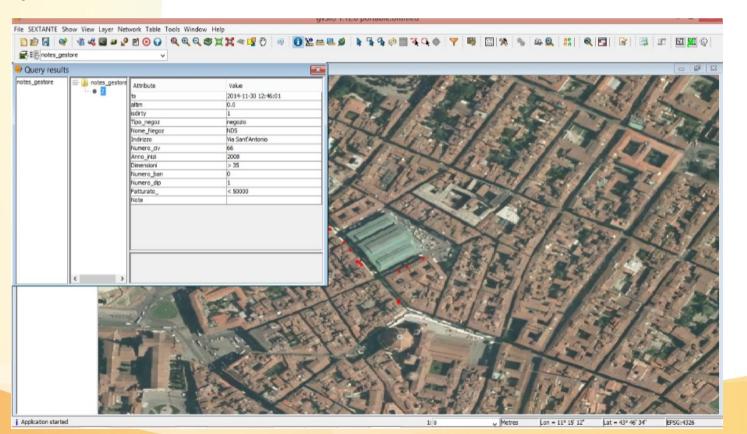






Analysis of the value chain for leather products in San Lorenzo street market

Collecting field quantitative and qualitative data in order to produce a detailed census of commercial activities

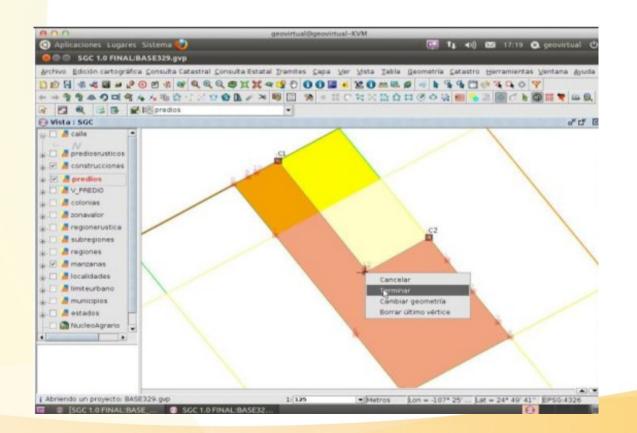






gvSIG, a unified application to the Mexican municipal cadastre

Cadastre modernization and taxes collection management.

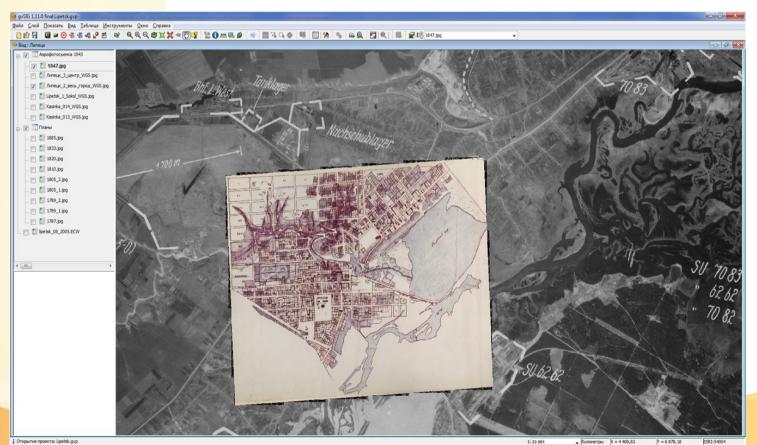






Use of gvSIG for Protection of Cultural Heritage in the Lipetsk Region, Russian Federation

Preparing a spatial information for the passport of a cultural heritage object and the land survey documentation

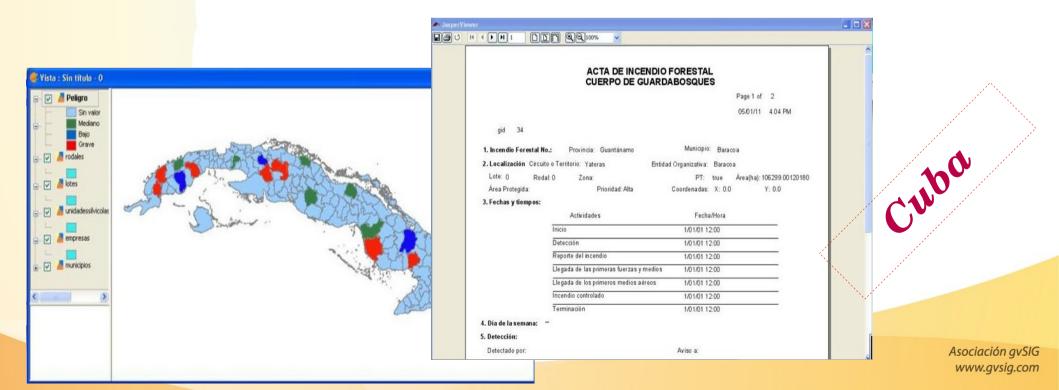


Russid



gvSIG for Forestry Management: SIFOMAP 3.0

Customized applications that allow to manage, administrate, update... the forestry heritage information. It's composed of different modules, like Forestry Management Planning, Sustainable Development Indicator, Forest Fire...

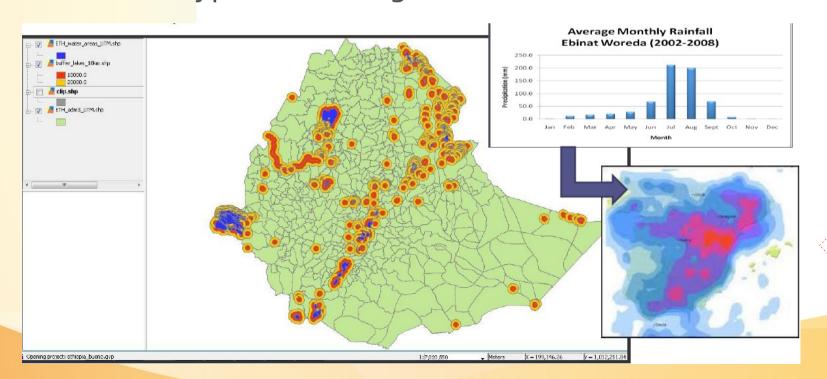




Spatial Data Infrastructures in developing countries: The climate change problem in Ebinat (Ethiopia)

Management of the geographical information related to a real problem: drought and climate change.

Analysis of the climatic conditions at the region and their relation with the type of farming.



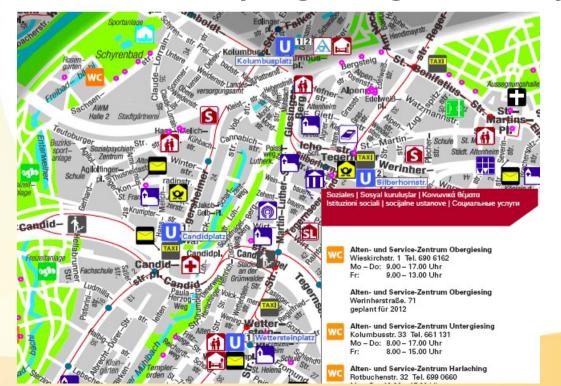
Ethiopia



gySIG as a GIS tool for creating maps for senior citizens published by the City of Munich

gvSIG is used as a platform for creating the basic map information and a pre-press version of the map.

A newly created, universally usable symbol is set to meet the requirements of the elderly regarding readability.

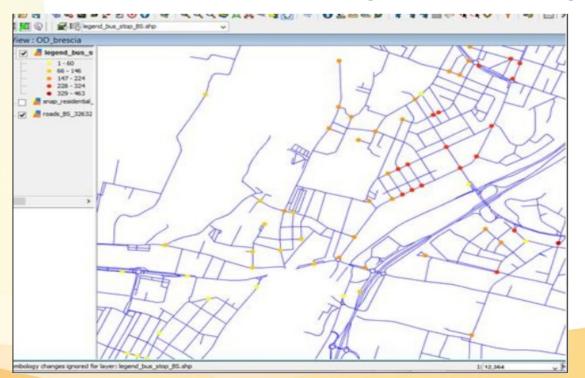






Assessing urban accessibility in the city of Brescia: the impact of public transport infrastructures

Identifying where new services should be located to lower the gap between different areas and reduce the car traffic inside the city. Evaluating the impact of new public transport infrastructures, such as tramways and subways.







Other related case studies

- Building business applications above gvSIG: a case study with a bus network management GIS for the Algerian Transport Minister (Algeria)
- Cohabitation Maps of the Local Police of Castellón City (Spain)
- Use of gvSIG in identifying strategic locations for the installation of a clothes shop (Brazil)
- Geomatics in the petroleum sector: Progress in the PDVSA SDI. Exploration using free technologies (Venezuela)
- gvSIG Roads Maintenance and conservation of roads management using software with cartographic information integrated (Spain)

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