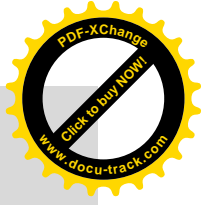
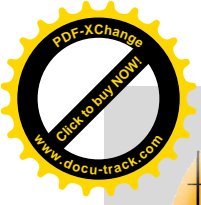




a FOSSG-tool for administrations and GIS- professionals

R.Schoenbuchner, José Canalejo
(CSGIS)
and Karl Tiller



gvSIG

Motivation for the presentation

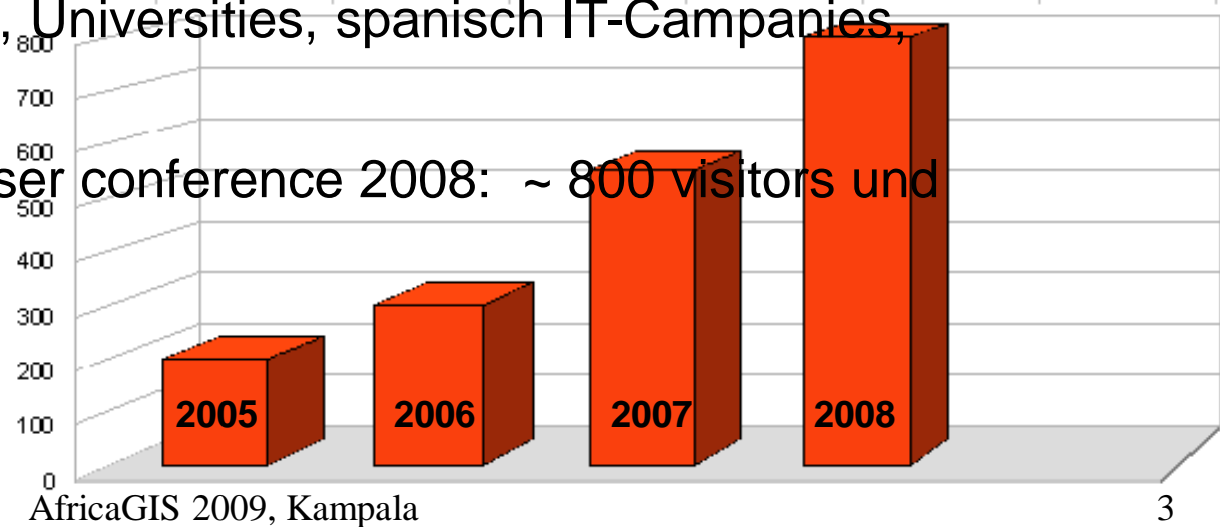
- Information about gvSIG as a FOSSGIS-tool
- gvSIG basic (history, environment, installation)
- Presentation of new functionality from the software and the current state of development (2.0 refactoring)
- Extensions for specified purposes /special needs (raster, sextante, networking)
- Important links and URLs regarding the project

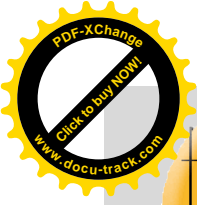


gvSIG

History of the development

- ◆ Office of transport and Infrastructure of the Government of Valencia migrated to Linux
- ◆ Evaluation of existing FOSSGIS-solutions
- ◆ Decision to develop a new GIS-program under GNU/GPL-licenz
- ◆ First version: October 2004
- ◆ gvSIG is under further development
(Government of Valencia, Universities, spanish IT-Campanies, user community)
- ◆ 4th international gvSIG user conference 2008: ~ 800 visitors und sponsors





gvSIG



Work fields, example CSGIS in Germany

- Strengthening of the German gvSIG user and development community
- Organization of German user meeting
- Internationalization of the program (e.g. documentation in German language, like the manual (> 400 pages), tutorials, reports, etc.)
- Translation of the software user interface (version 1.1.2 and 1.9)
- Project coordination (port between german customers and programmers in Spain)
- Website: <http://www.csGIS.de>

AfricaGIS 2009, Kampala



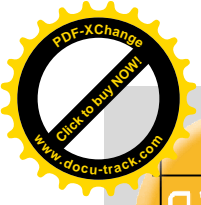


gvSIG

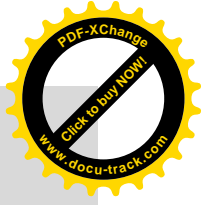
Environment

- environment: Java
- support inspire- und OGC-standards
- free software (GNU/GPL)
- scalable und flexible
- user-friendly
- international: languages: spanish, valencian, english, baske, galician, french, italien, portugis, german, tschek, rumanian, polnish, chinese, turkish, greek, swahili, russian














gvSIG



Installation

- platform independent : Windows, Linux und Mac
- unlimited installation possible: 0 €
- simple to install - needs JRE (Java Runtime Environment) and JAI (Java Advanced Imaging)
- stable Version 1.1 with Update 1.1.2
- gvSIG 1.9 Actual: **RC2** (build1250)
- gvSIG 2.0 beta Release (under development)

EASY TO INSTALL WITH HELP OF A WIZZARD

	Binaries	Manuals
Stable version		
		English-Version 1 (18-01-2008)  PDF (10.8 MB)
	gvSIG only, with no extra software:	Spanish-Version 3 (21-09-2007)  PDF (13.3 MB)
1.1 (21-09-2007)	 EXE (44.9 MB)	
	 BIN (44.0 MB)	Spanish-Version 2 (09-08-2007)  PDF (12.3 MB)
	Macintosh (only Intel):	Spanish-Version 1 (20-07-2007)  PDF (12.1 MB)
	 OSX10.4 (44.3 MB)	



gvSIG

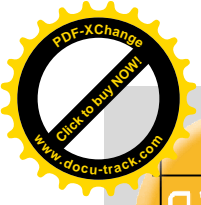
Documents types: VIEW – TABLE - MAP

The screenshot displays the gvSIG 1.9 interface with three main document windows:

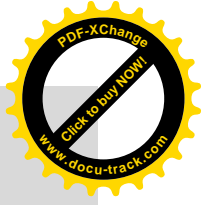
- Project manager:** Shows document types: View, Table, and Map.
- Map : karte:** Displays a map view of a city area with a yellow polygon overlay.
- Table: Attribute table: parcelas_Valencia.shp:** Shows a table of attributes for the selected map feature.

MAPA	DELEGACIO	MUNICIPIO	MASA	HOJA	TIPO	F
242	46	900	46149	YJ2741D	U	16
242	46	900	47131	YJ2741D	U	24
242	46	900	48111	YJ2741B	U	04
242	46	900	45193	YJ2741H	U	02
242	46	900	46168	YJ2741F	U	14
242	46	900	47164	YJ2741F	U	02
242	46	900	47195	YJ2741H	U	09
242	46	900	48193	YJ2741H	U	14
242	46	900	48185	YJ2741H	U	03

5 / 10869 Total records selected.



gvSIG



Loading Data types

- RASTER : ECW, ENVI hdr, ERDAS img, (Geo)TIFF, GRASS, ...
- VECTOR & CAD: shapefile, GML, KML, DGN, DXF, DWG
- DATABASES: PostGIS, MySQL, Oracle, ArcSDE
- OGC conform web services:
 - Webmapservice (WMS)
 - Web Feature Service (WFS and WFS-T)
 - Web Catalog Service (WCS)
 - Web Map Context (WMC)
 - Geography Markup Language (GML 1.1.3)
 - Keyhole Markup Language (KML 2.1)
 - Styled Layer Descriptor (SLD)

Other services: ECWP, ArcIMS

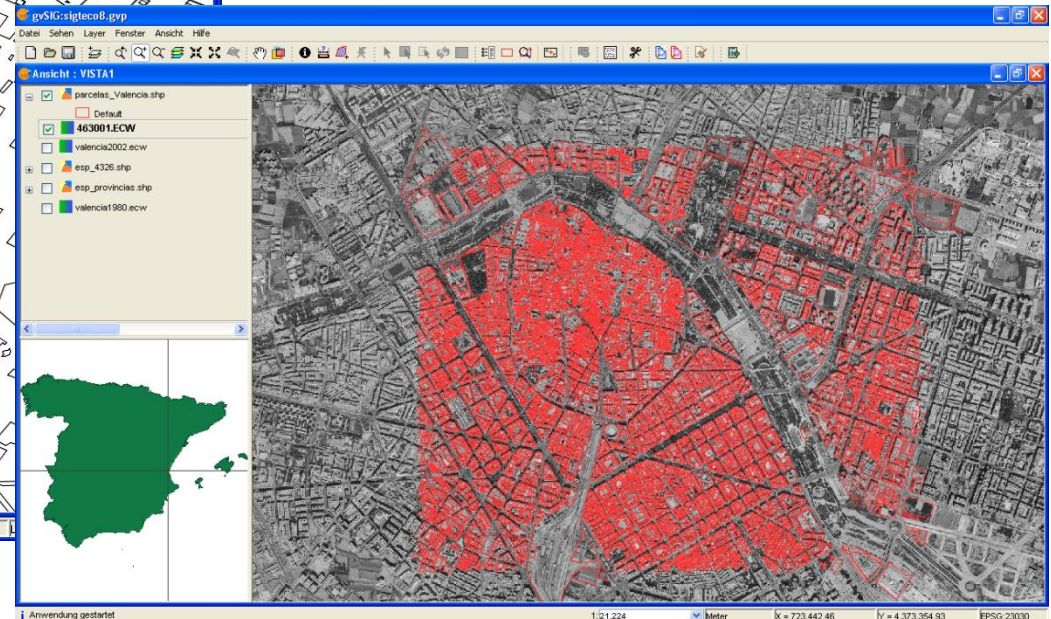
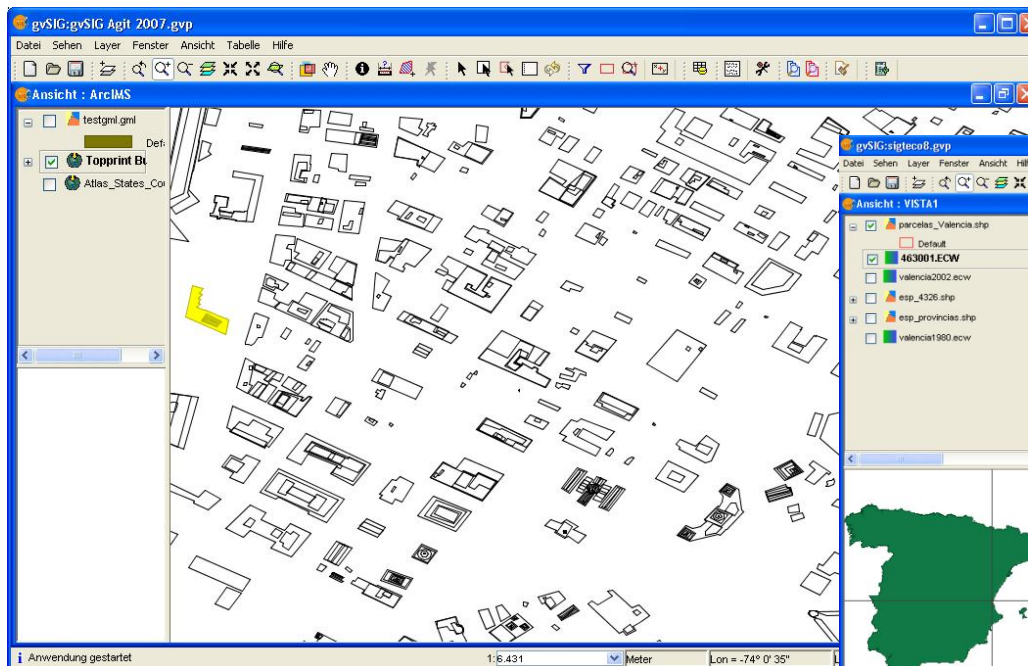


gvSIG

Extension: ARC-IMS

ArcIMS ImageServer

ArcIMS FeatureServer:
Remote Vektor Daten

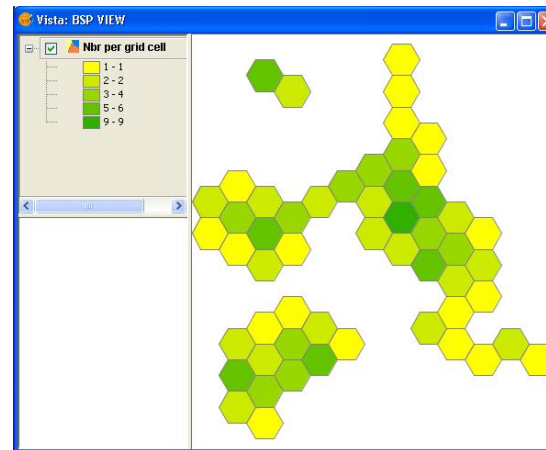
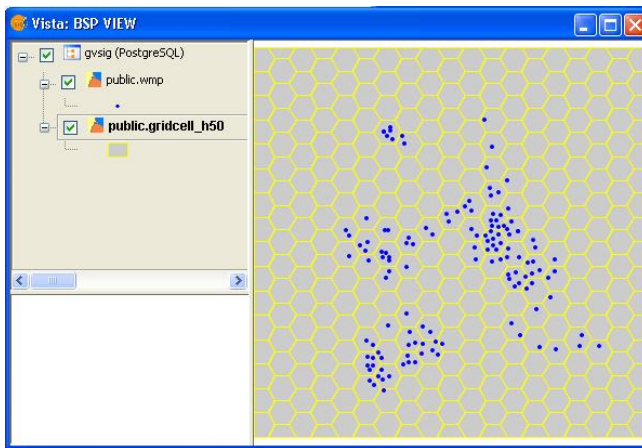




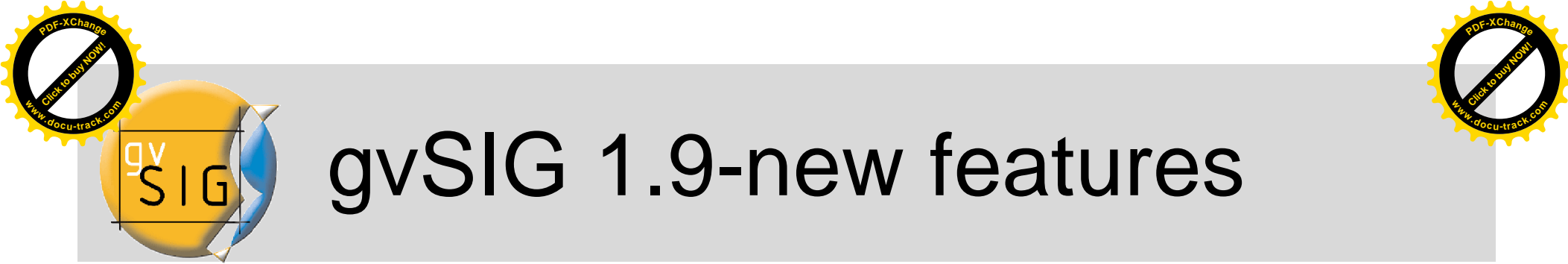
gvSIG

Example: gvSIG as Postgis-Client

- ◆ Create a table with a geometric column
- ◆ Export a layer into Postgis
- ◆ Load a table from Postgis – selection of a geometry column possible
- ◆ Loading of views (including geospatial functions)



Possible workflow: load KML – transform in another CRS (EPSG:21096) – Export to Postgis



User-defined labelling:

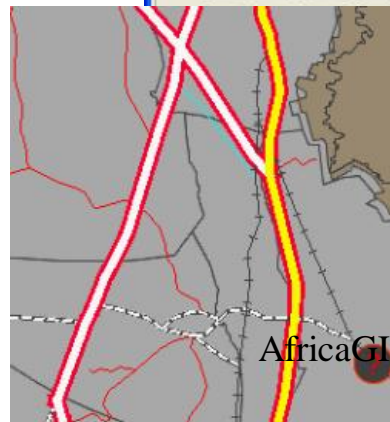
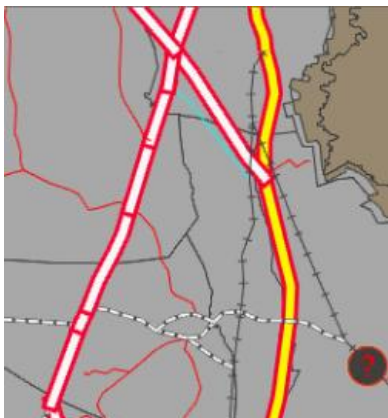
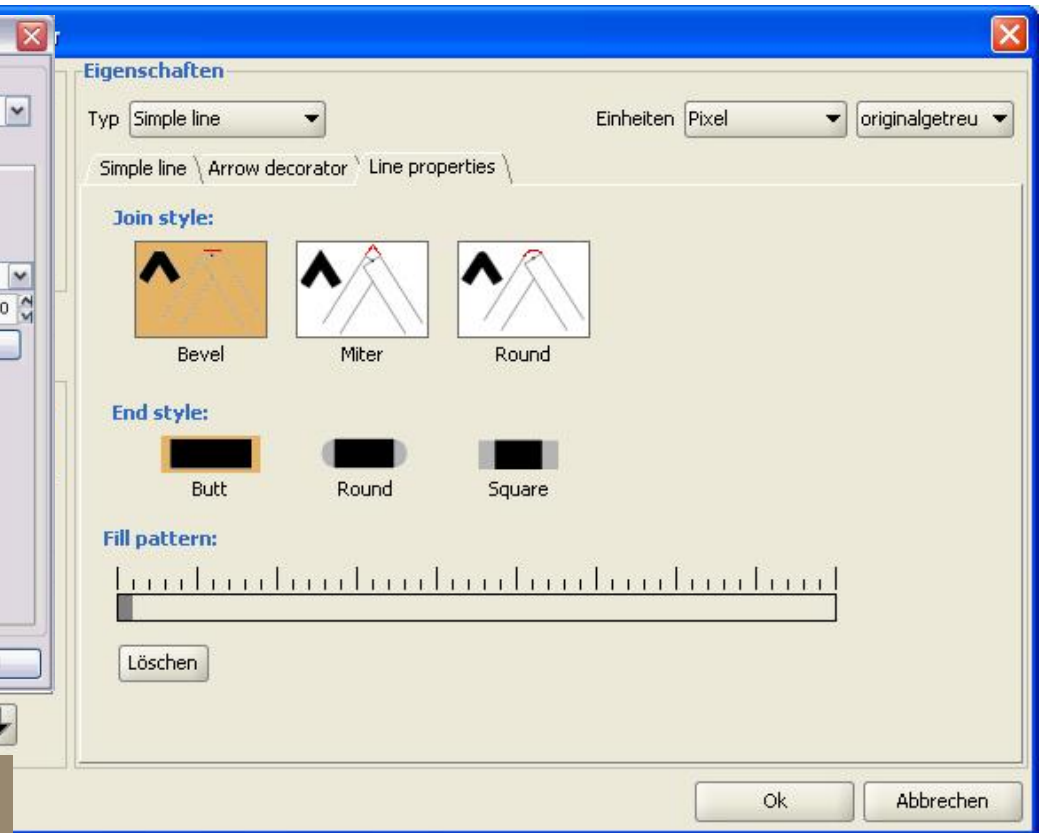
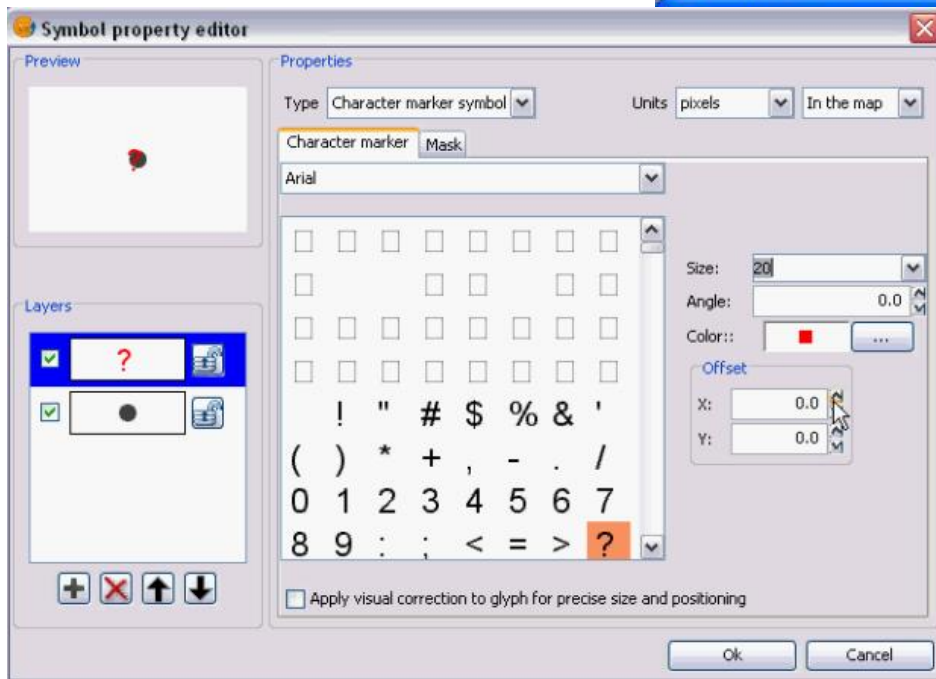
- all features
- classified features
- selected features
- tool to place individual labels (by attribute)



source: RGU – Stadt München



gvSIG 1.9- Symbols



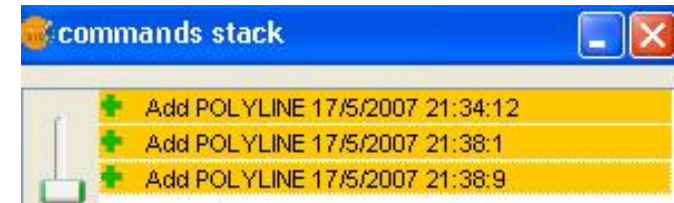
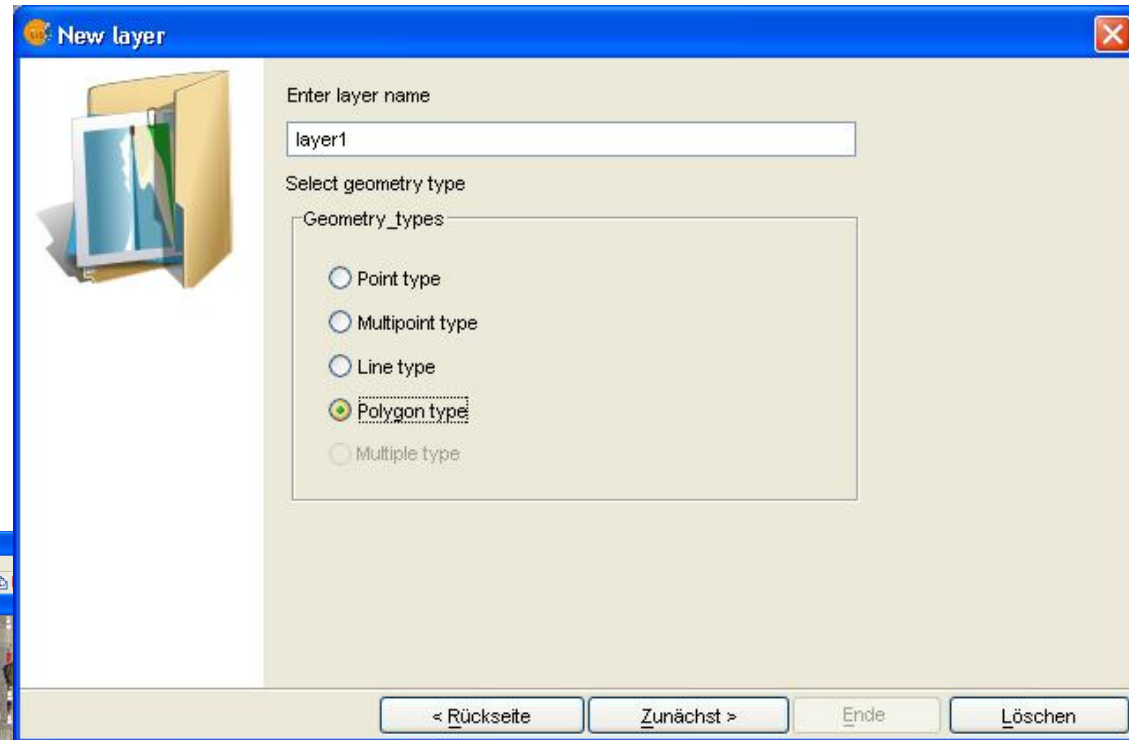
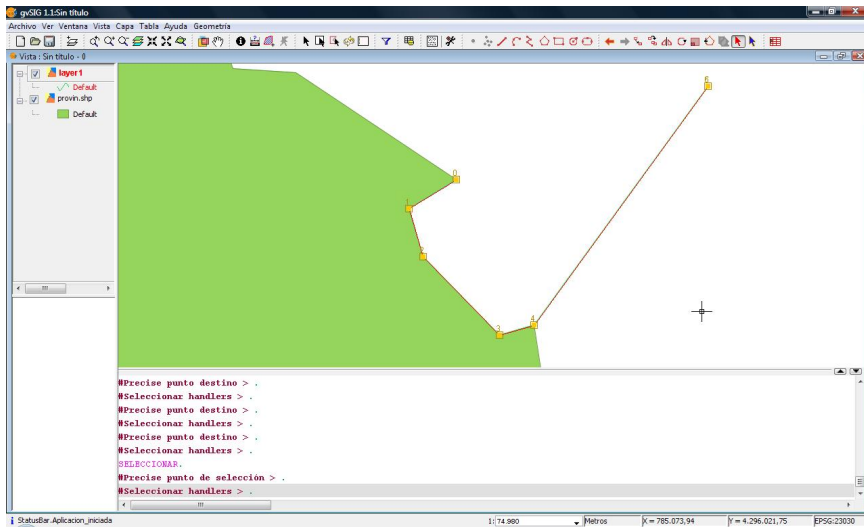
- integrated symbol editor with individual design

- library with new predefined symbols

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gvSIG 1.9 Editing

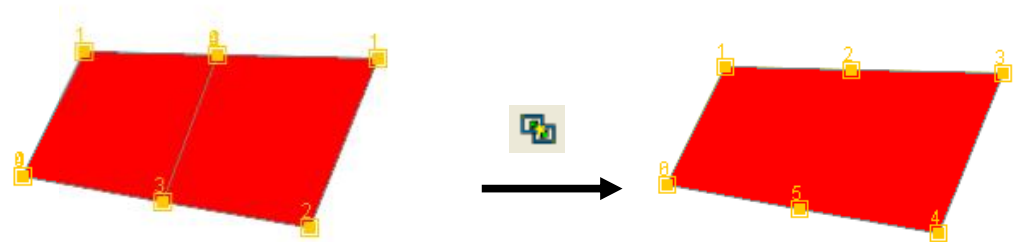
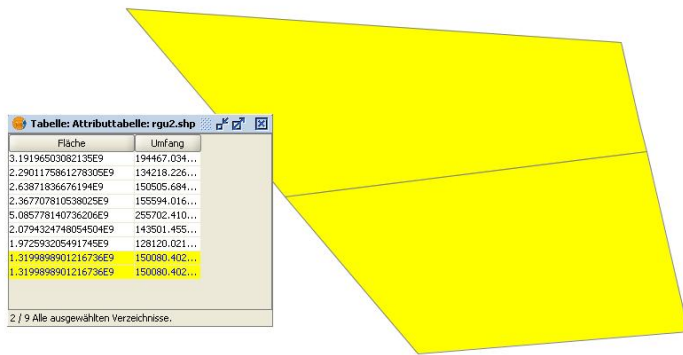




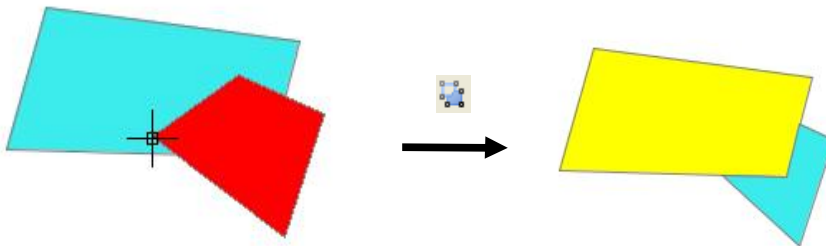
gvSIG 1.9 Editing

split geometry (polygons + lines)

merge geometries (polygons + lines)



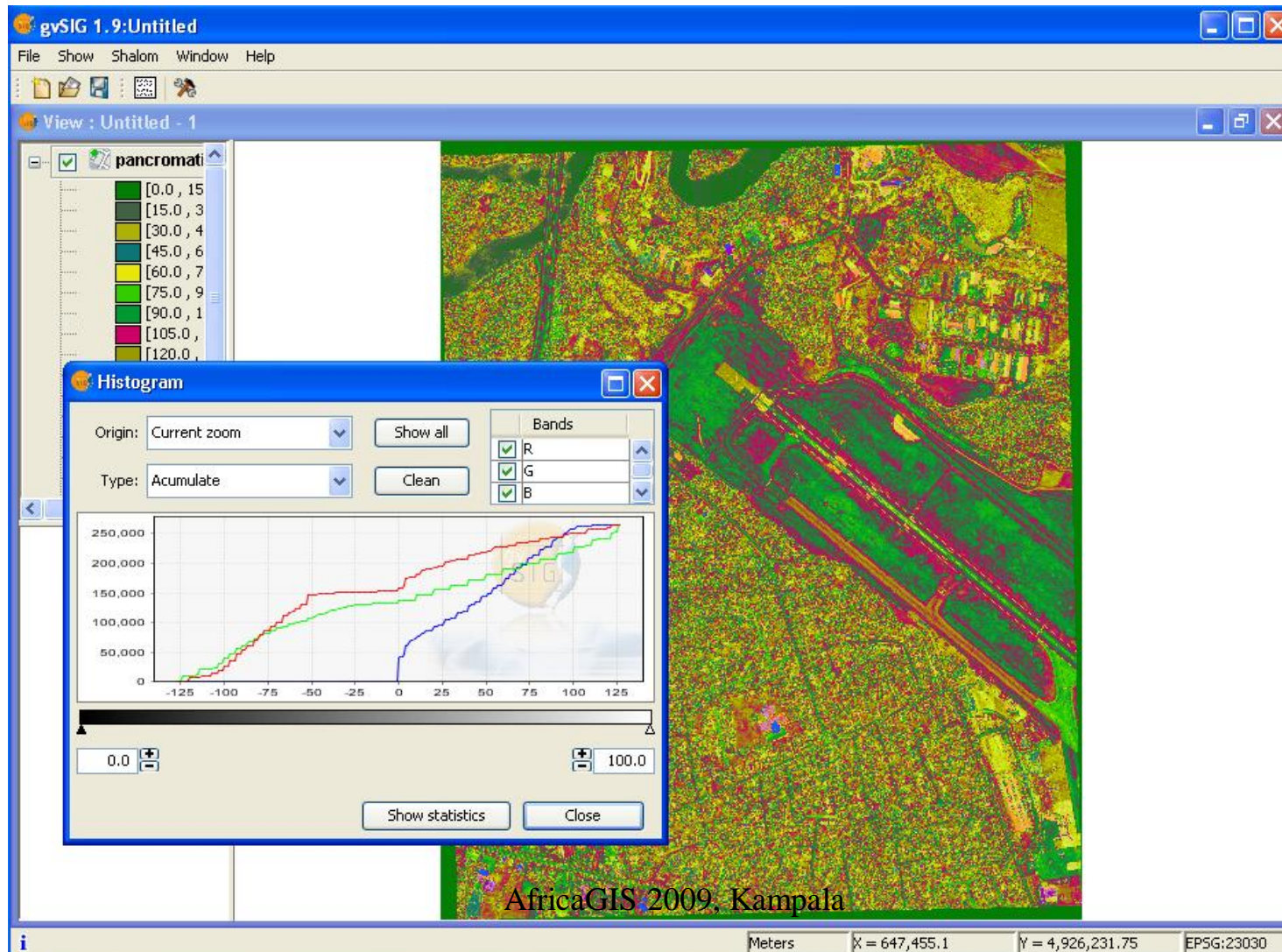
autocomplete- Polygon





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Extensions: Raster view with Histogram and color table

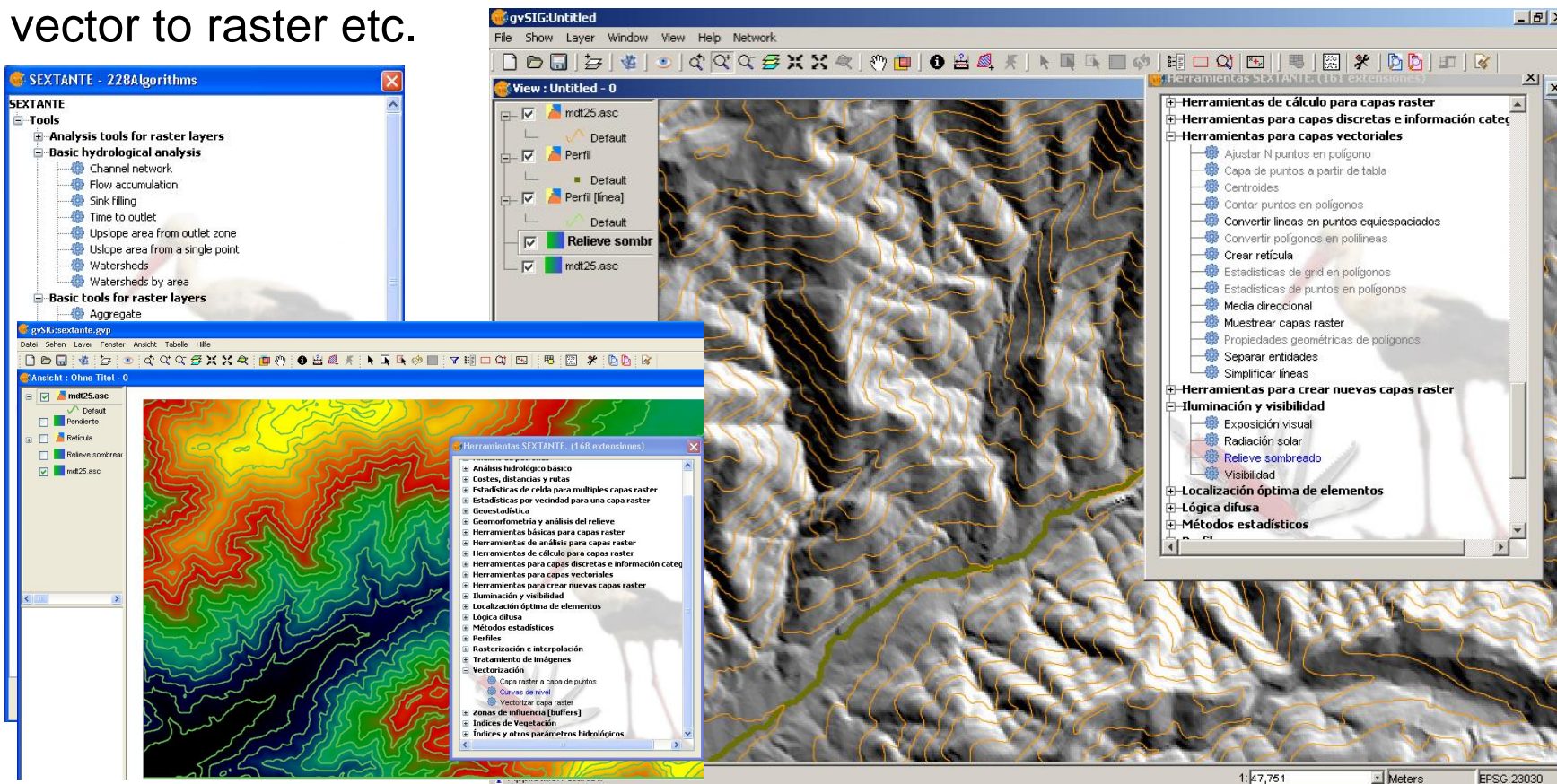


gvSIG – Sextante



Extension: Sextante

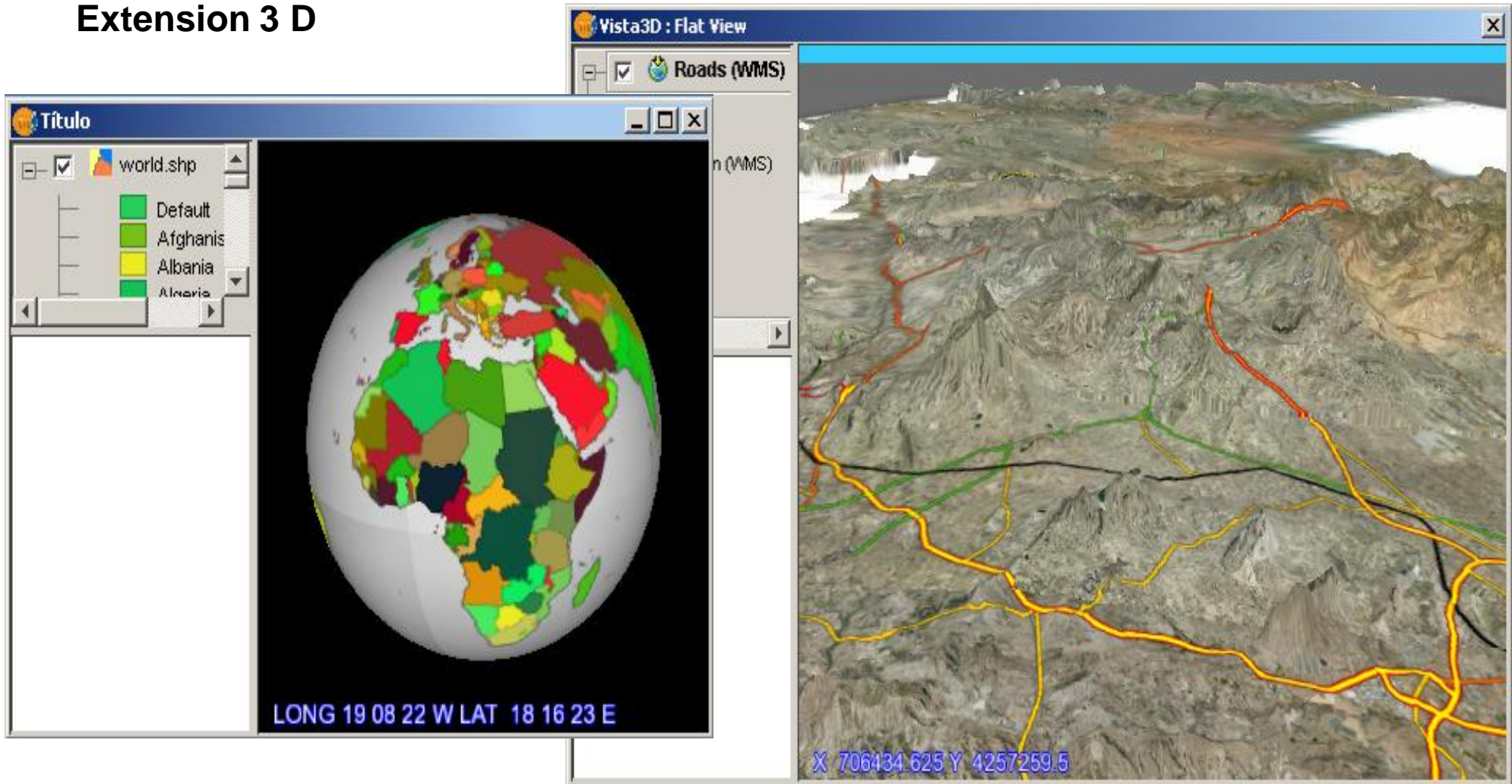
Over 200 modules (raster, vector) for DTM, Hydrology, Vegetation Indices, Raster Calculator, Geostatistik, Conversion of raster to vector and vector to raster etc.





gvSIG

Extension 3 D

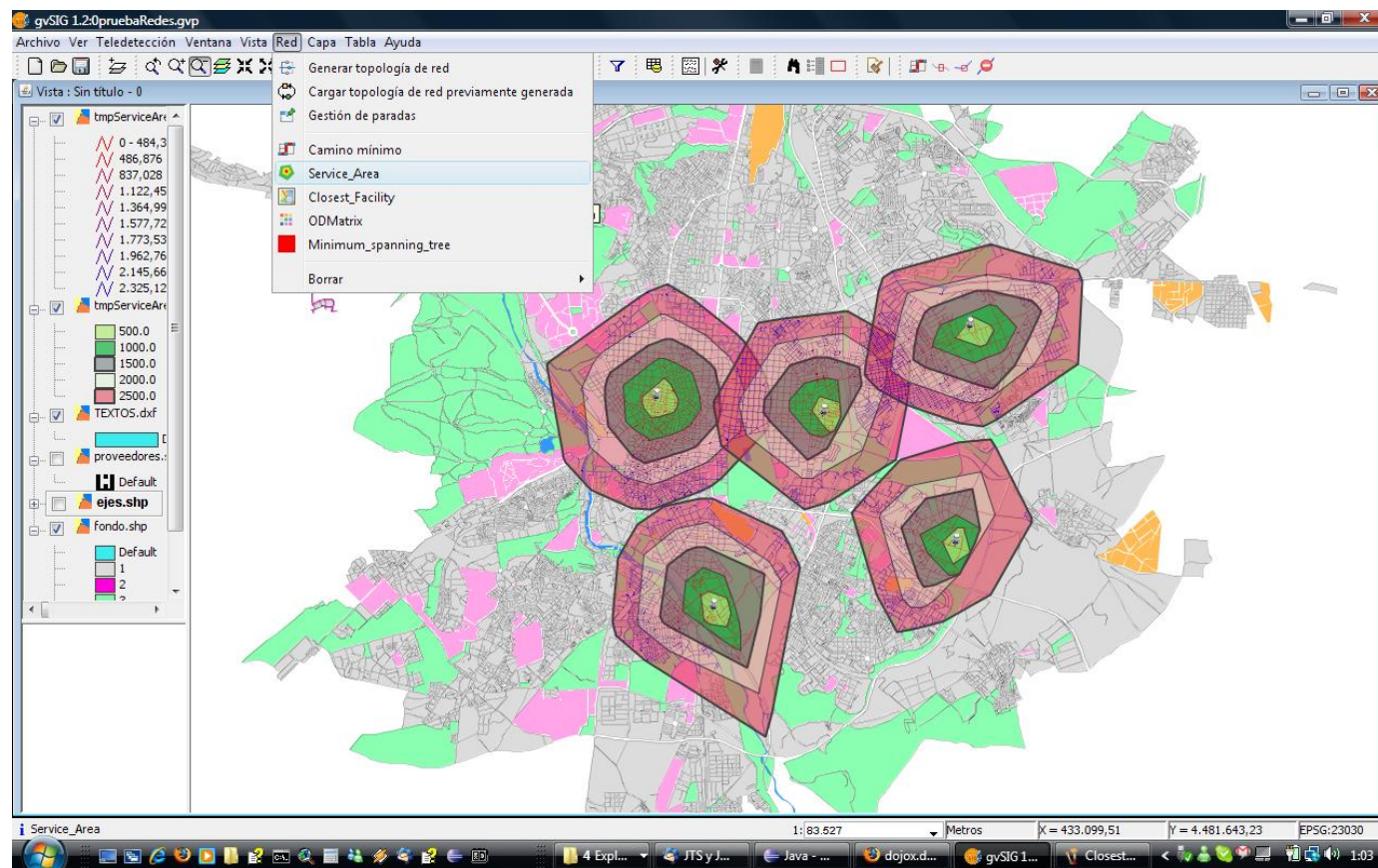


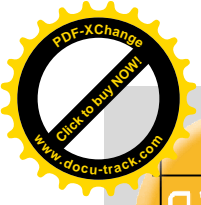


gvSIG

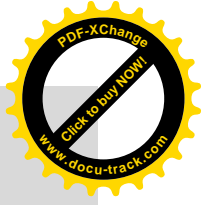
New or improved extensions

Network (road, water) Discussion to build interface to Epanet





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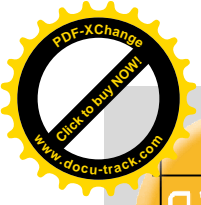
Important links:

.gvSIG homepage: <http://www.gvsig.gva.es/> (User list, documentation, download, roadmap, gvSIG handbook, tutorial (Update 1.1.2))

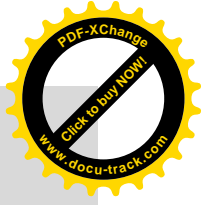
.gvSIG download: <http://downloads.gvsig.org/> (programm, gvSIG, Live- DVD, portable gvSIG USB-Stick, extensions)

.Wiki gvSIG: <https://gvsig.org/web/> (platform for developments, translation, documentation for developers)

In the near future a gvSIG-user wiki in english will be available



gvSIG



More information or if you are interested to participate in the gvSIG community, please contact

info@karl-tiller.de

Latest news (2009/10/27): gvSIG mobile for Cell phones (java, android)

Thank you very much for your attention!