

**CGS
University of
Nottingham**



**OSGIS 2011
22nd June**

“Different types of OS GIS mobile applications: gvSIG Mobile & gvSIG Mini”

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4. Differences between applications

5. Videos

6. Useful links

1. Mobile applications in gvSIG

- **2006:** gvSIG Mobile (gvSIG Project)



- gvSIG Project
- JAVA ME (J2ME - CDC)
- GNU/GPL

- **2009:** gvSIG Mini (R&D Initiative)



- R&D Initiative
- JAVA ME (J2ME - CLDC)
- Android
- GNU/GPL

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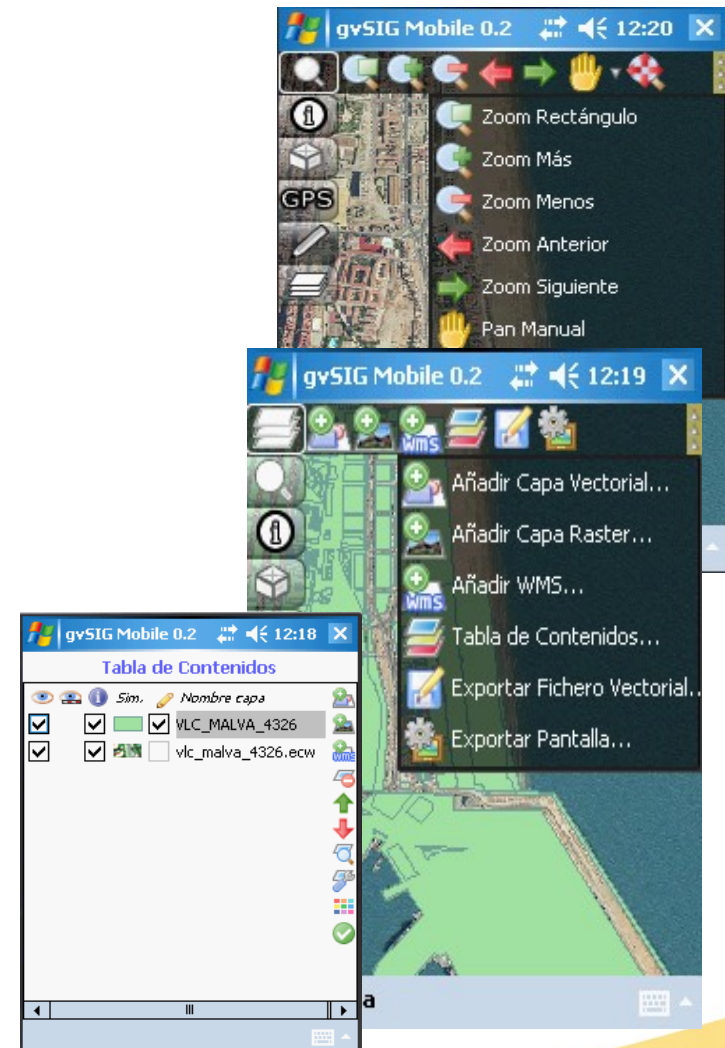
2. gvSIG Mobile

- Intended for **GIS Professionals**
- **GNU/GPL** license
- Aimed at **PDAs**
 - **Windows Mobile** (2003, 5,6,6.1 and 6.5)
 - JVM: J9 IBM, PhoneMe Advanced
- Tablet Pcs (XP) and smartphones (W.Mobile)
- Future: Cell phones



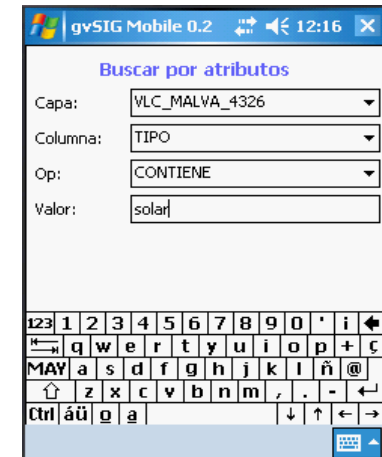
2. gvSIG Mobile 0.3 *(latest final version)*

- Project management
- Navigation
- Data support:
 - shp,KML,GML,GPX
 - ECW,JPEG,PNG
 - Client of SDI's : **WMS**
- Layer management (TOC)



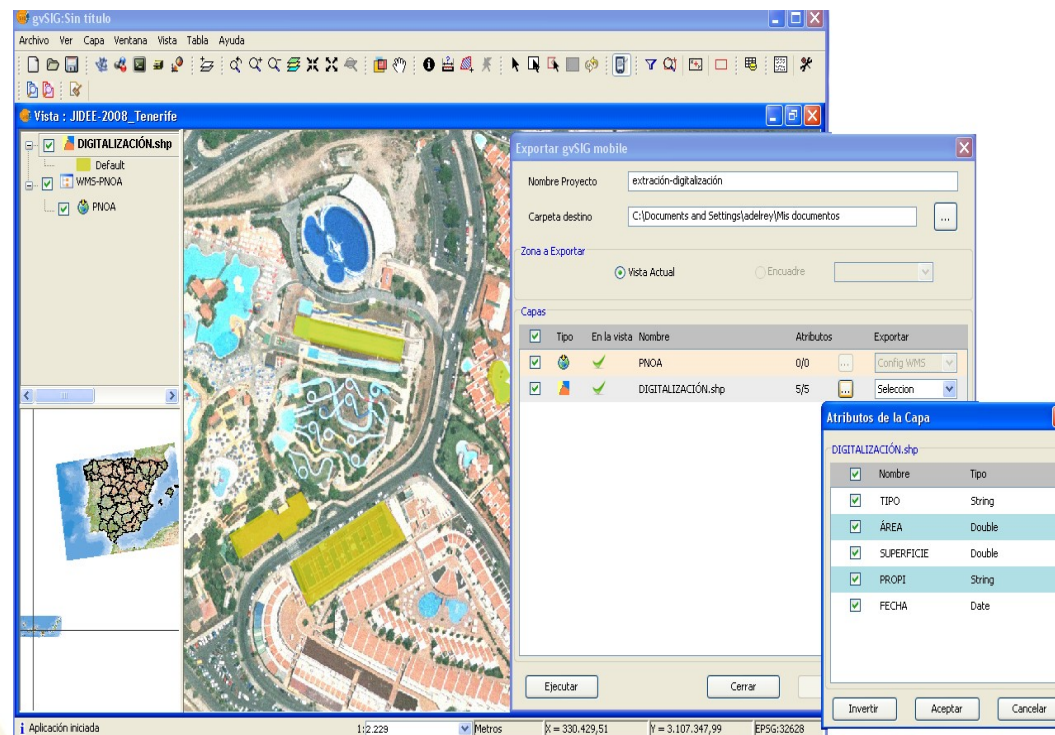
2. gvSIG Mobile 0.3 *(latest final version)*

- Query data:
 - Selection by attribute
 - Object selection
 - Measures
- **GPS** Support:
 - NMEA0183 Protocol
 - Waypoints and tracklogs (GPX,CSV)
 - GPS Simulation



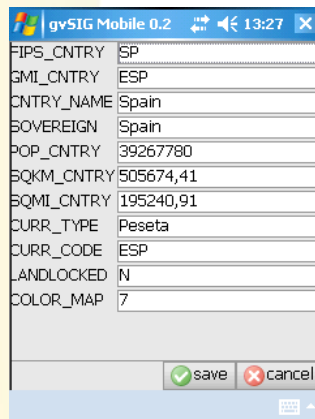
2. gvSIG Mobile 0.3 *(latest final version)*

- gvSIG extension to export data to the PDA



2. gvSIG Mobile 0.3 *(latest final version)*

- Editing of data
- Use of custom forms: **XML** files



gvSIG Mobile 0.2 13:27

FIPS_CNTRY	SP
GMI_CNTRY	ESP
CNTRY_NAME	Spain
SOVEREIGN	Spain
POP_CNTRY	39267780
SQKM_CNTRY	505674,41
SQMI_CNTRY	195240,91
CURR_TYPE	Peseta
CURR_CODE	ESP
LANDLOCKED	N
COLOR_MAP	7

save cancel



gvSIG Mobile 0.2 13:28

FIPS SP
GMI ESP
Country Name Spain
Map Color Green

Country Info

☐ Land Locked
Name Spain
Currency Peseta
Country Code ESP

Country Area

SQKM 505674,41
MI 195240,91

save cancel

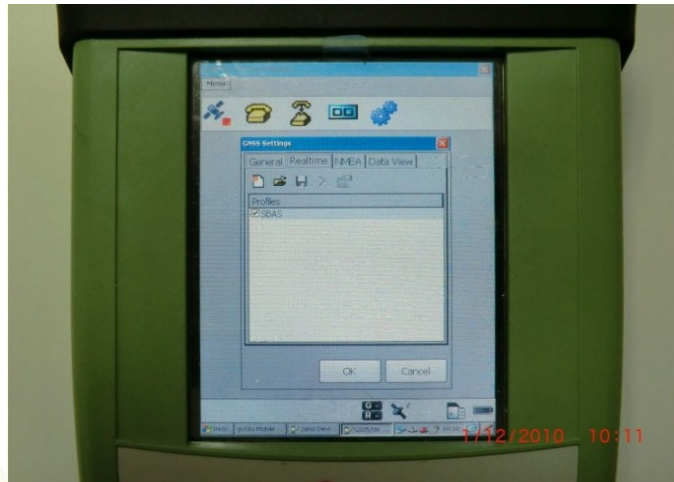


- Range value thematics maps
- Download



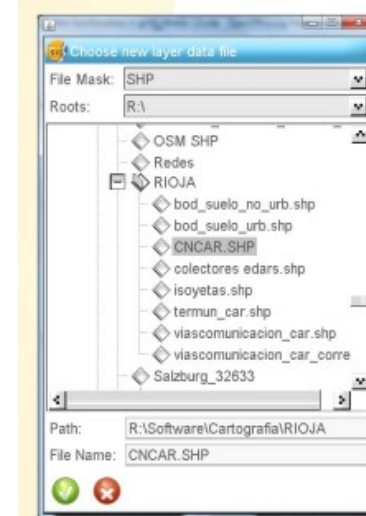
2. gvSIG Mobile for Leica Zeno

- gvSIG Mobile 0.3 has been adapted for Leica Zeno
- Windows CE 6.0
- Higher capacity of data storage
- Supports: SBAS as WASS/EGNOS, etc. and DGPS



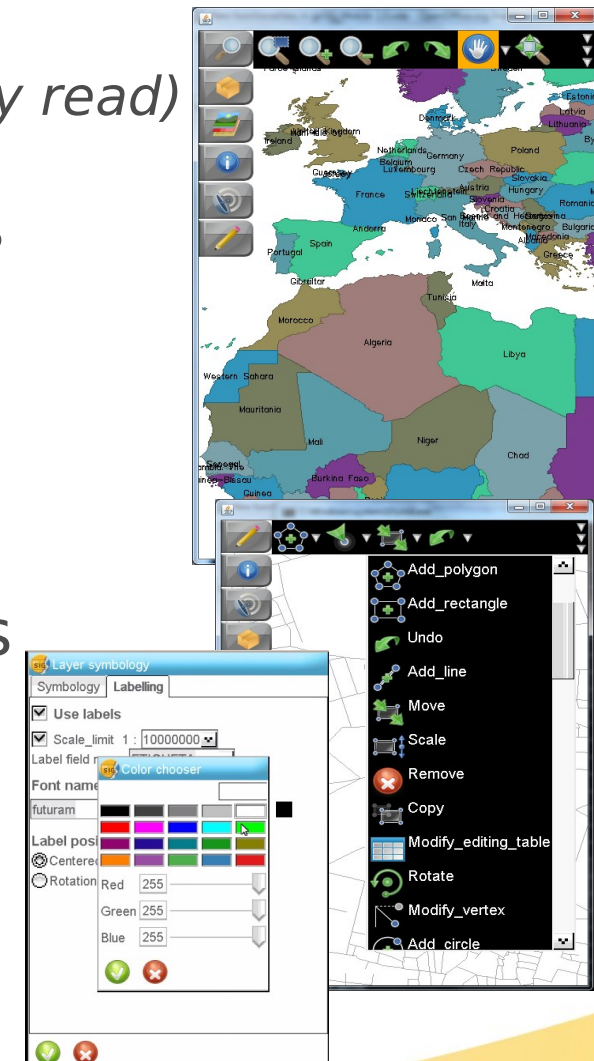
2. gvSIG Mobile 1.0 *(under development)*

- New **compatible architecture**
 - Re-written from scratch
 - Core compatible with **gvSIG Desktop 2.0**
- New GUI based on LW VCL
- OSGi extensibility
- New SRS support: *Java Map Library*



2. gvSIG Mobile 1.0 *(under development)*

- Access to WFS 1.0.0 and 1.1.0 (*only read*)
- Thematic maps by unique values
- Labelling
- Vector Data: Advanced editing
- Alphanumeric Data : Modify Tables



2. **gvSIG Mobile 1.0** *(under development)*

- Advanced **GPS Location**
 - New devices collection
 - TSIP and RawData support
 - NTRIP differential correction
- **LandMarkStores Management** (Local)
 - Personal Data Base of LMS
 - Add/Search/view of POIs/routes
 - Editing of POIs/routes (including waypoints)



2. gvSIG Mobile 1.0

Work in progress:



- Tiles support
- Geosynchronization via WFS-T
- New navegation through waypoints of LMS
- Integration with OpenStreetMap
- Sensor features through the Sensor Observation Service (SWE)
- Hybrid location
- etc.

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3. gvSIG Mini

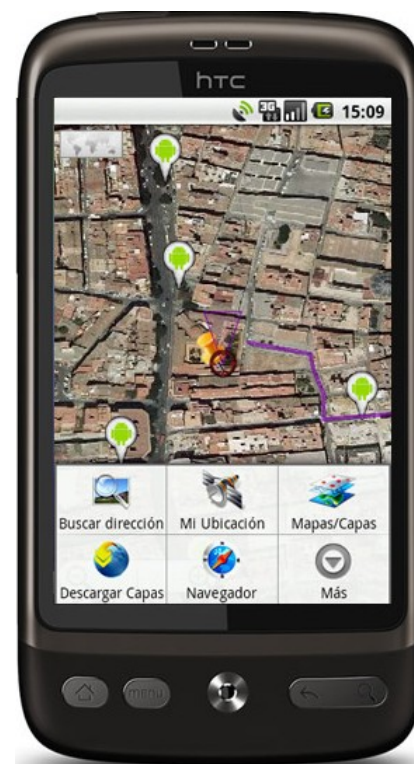
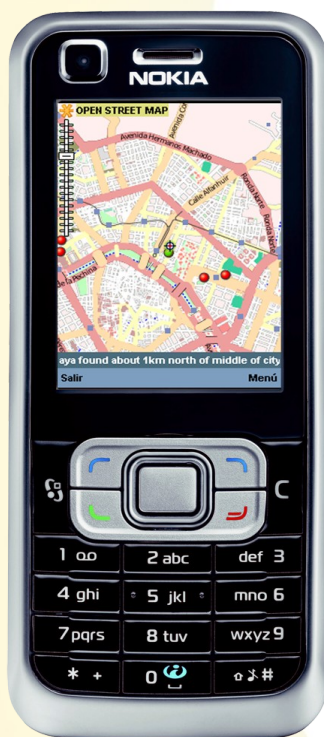
- Open Source **Map viewer** of free internet **tilled maps** and **WMS/-C** and **TMS** for mobile phones
- Intended for **mass audience**
- **GPS, YOURS** and **Name Finder** support
- **GNU/GPL**
- Developed in **JAVA ME CLDC** and **Android**



Android Market

3. gvSIG Mini

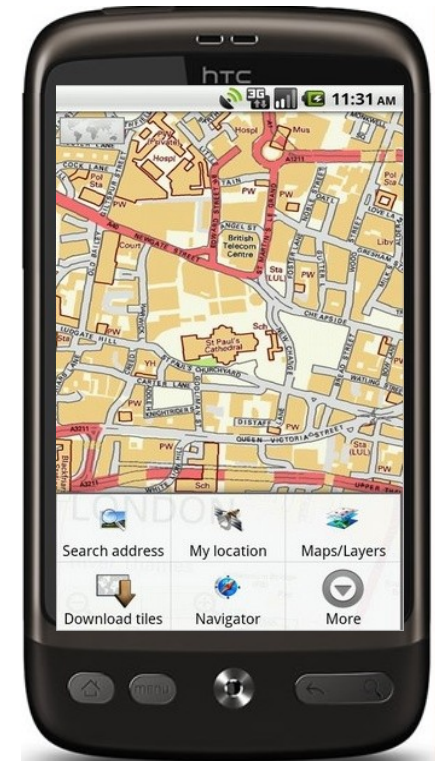
What does it look like?



3. gvSIG Mini

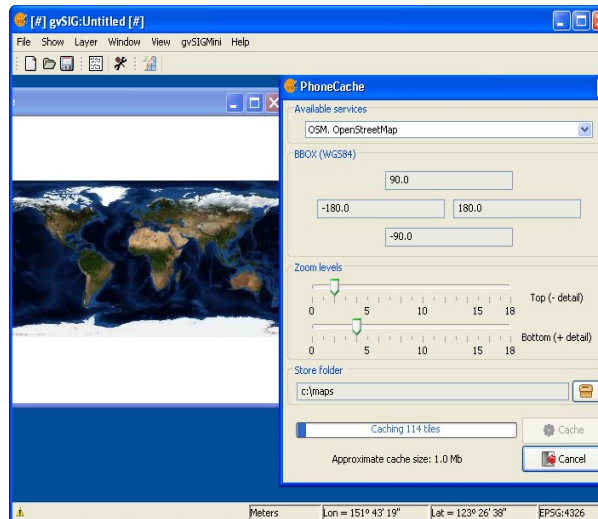
Main Menu

- GPS Location
- Route Calculations: **(OSM YOURS)**
- Address Search: **(OSM Name Finder *)**
- POI Search: **(OSM Name Finder)**
- ...



3. gvSIG Mini

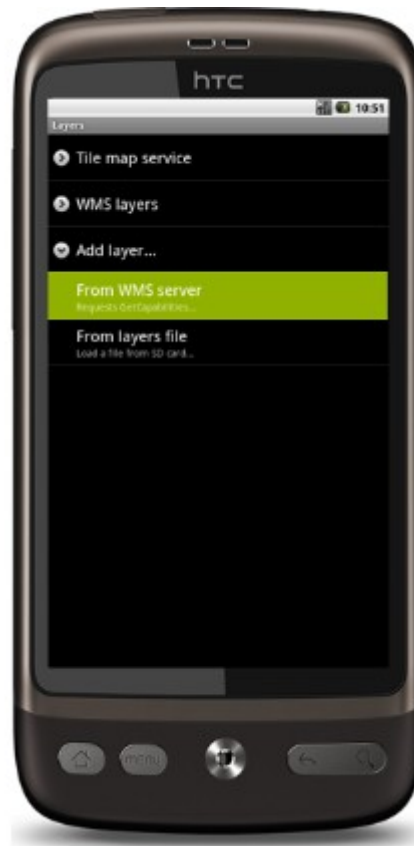
- Share location: Twitter/Facebook, SMS, e-mail....
- Tiles downloader:
 - Phone Cache (gvSIG's extension)
 - gvSIG Mini's Menu



3. gvSIG Mini

Preset Layers

- OpenStreetMap
- Yahoo
- Microsoft Bing
- Google Maps
- PNOA (ES)
- Ordnance Survey (UK)
- Yandex (RU), etc.



3. gvSIG Mini

Add Layers/ Custom layers

- WMS
- WMS-C
- TMS (*.gvtiles file)

```
_v0.2.1_  
1|ICC_ORTO;3,http://sagitari.icc.cat/tilecache/tilecache.py/1.0.0/orto/  
..._  
..._  
_n layers_
```



3. gvSIG Mini

Contextual Menu

- Search/ Delete POI
- Delete/Start Route
- POI List
- Street View
- Weather
- etc....



3. gvSIG Mini

Latest features:

- Map download directly from the mobile phone, **for off-line usage.**
- Off-line mode for viewing maps with no data connection
- Multi touch support
- New map rendering system, much more agile
- Standard Android search button support
- New layers available by default
- New cache options
- Android 2.2 support (now from 1.5 to 2.2)
- **UK Ordnance Survey** *true* maps (rendered by OS)

3. gvSIG Mini

Work in progress

- WFS client (near future)
- **Google Summer of Code 2011:**
 - “Tiled vector support of non-standard services data: *Panoramio, Flickr, Foursquare, Wikipedia, Buzz, Youtube, etc*
 - Vector support for gvSIG Mini: GPX, KML, GML



3. gvSIG Mini

Where can we get it?

- From PC: www.gvsigmini.org
- From phone: m.gvsigmini.org
- From gvSIG project 
- From SVN 
- From Android market



3. gvSIG Mini

Who is working on?

pro²DEVELOP
Integración de tecnologías

Applications based on gvSIG Mini:

- onSTic
- NOMADA Maps



onSTic
This project has been developed for the Abredatos challenge 2011
The idea is...

FREE
★★★★★



	Athens NOMADA Maps With Athens NOMADA Maps you can view maps and points of interest of Athens...	€1.99 ★★★★★
	Beijing NOMADA Maps With Beijing NOMADA Maps you can view maps and points of interest of Beijing...	€1.99 ★★★★★
	San Francisco NOMADA Maps With San Francisco NOMADA Maps you can view maps and points of interest of...	€1.99 ★★★★★

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4. Applications' comparison (1/3)

	gvSIG Mobile 	gvSIG Mini 
Users/Use	- Professional GIS users - GIS Survey tasks	- Mass audience - Get/search information
Devices	- PDA's - Tablet PC's - Smartphones	- Smartphones: - Blackberry: YES - iPhone: NO
Operative System	Windows Mobile 5, 6	Java, Android
Type of data support	Vector and Raster Data	Raster Data

4. Applications' comparison (2/3)

	gvSIG Mobile 	gvSIG Mini 
Load data	- gvSIG Projects - shapes,GML 2.x,KML 2.1 - ECW,JPG,GIF - WMS,WFS	- WMS, WMS-C - TMS, OS OpenData - OSM - Yahoo Maps - Bing Maps
Data export	Shapes, GML 2.x, KML 2.1, GPX	NO
Vector Data editing	YES	NO
Alphanumeric Data	YES	NO

4. Applications' comparison (3/3)

	gvSIG Mobile 	gvSIG Mini 
Remote Search of POIs /Addresses	NO	YES (OSM Name Finder)
Official Project of gvSIG	YES	NOT YET

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6. Useful links

- gvSIG Mobile and Mini tutorial at FOSS4G 2010 BCN
- gvSIG Mobile workshop at FOSS4G 2010 BCN
- Tutorial of gvSIG Mini 1.0 for Android
- Some new gvSIG Mobile and Mini videos
- gvSIG Mobile for Leica Zeno:
 - *Open Mobile IS synchronization with PostGIS table & cached WMS tiles*
 - *Editing a shapefile with GPS*
 - *ECW image + manual SHP editing*

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Thank you very much!!!

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