

GisPlanet'05 workshop proposal:

Authors: Martín García Hernández (*), Gabriel Carrión Rico(*), Luis W. Sevilla Muelas(*) Alvaro Anguix Alfaro(**), Francisco José Peñarrubia Martínez (**)

(*) Generalitat Valenciana, Conselleria de Infraestructuras y Transporte.

(**) IVER Tecnologías de la información S.A.

Title: An Open Source Solution for the GI World

Keywords: GIS, INSPIRE, Open Source, Open GIS, spatial data infrastructures, Usability, Internet/Intranet/Extranet solutions , Spatial data integration & interoperability, GI Infrastructures, World balance and co-operation, g-Government, Geoinformation policies, Public participation

Summary: Practical presentation and detailed explanation of a proposal for a practical solution, using an Open Software Tool. The presentation will troubleshoot retrieving, storing, accessing and diffusing geospatial information in multiplatforms and multilanguage and will show its application in a european local administration. INSPIRE with Open Source solutions, examples.

Abstract: Nowadays we have a great deal of geospatial information deriving from different origins, with non homogeneous technical features, with diversity of formats, and with a need of rapid and effective access.

Storing and distributing this information, together with accessing the data features (and accessing the data itself) is becoming a cumbersome issue. We are investing a great effort, both economical and of human resources in our enterprises. Our technical people and users, want to incorporate this geospatial information in their technical work and reports. Nevertheless they would like not to bother upon the variation in formats and technical features.

The Generalitat Valenciana (The regional government of Valencia, Spain) has the resolution of satisfying the need of employees and citizens, supressing technological dependency, reducing cost and letting an optimal distribution of resources. To achieve that overcoming the named obstacles they evaluated Free Software tools.

In the mean time, the European Commission admitted the INSPIRE policy initiative as a starter to create a European Spatial Information Infrastructure, and with the aim of becoming a european Directive.

The Generalitat Valenciana together with the IVER company have developed a client application software of geospatial information, with capability of vectorial edition, vectorial and raster information handling, data retrieving and data actualization, all of it in local, network and through OGC services, letting as well the building of rigorous maps. This application is called **gvSIG**.

In this presentation, we will show the design of a complet application which allows:

- Storing vectorial data in geodatabases or local or remote files via intranet, and storing raster data in local or remote files.
- Retrieving information in a direct manner in the storing format, or indirectly through standard OGC services (WMS, WFS, WCS).
- Publishing via internet or via our intranet this information using OGC services.
- Printing maps using the described accessing modes.
- Retrieving and searching data upon catalogues using standard OGC services (WCAT).

Emphasizing :

- The capability of adaptation this application, by means of a simple implementation which will add new functionality.
- The versatility and power in accessing Geospatial information in different supports and formats, no matter the size of data or the quantity of information to handle at the same time and with different projection systems.

- The simplicity of managing and user friendliness by means of the views, maps and selections.
- The use of the tool in the different international versions.

At the end of the workshop the participants will have a clear idea of how Open Software Tools can help them to overcome their company problems.

List of contents to be covered: Social and human context of GIS, Interoperability, Planning, Internet/Intranet/Extranet solutions , Spatial data integration & interoperability, GI Infrastructures, World balance and co-operation, g-Government, Geoinformation policies, Public participation

List of issues for further discussion (if any): Administration and Open Source. GIS and Open Source.

Readings (maximum 3);

- Manejo de información geoespacial en un escenario técnico: introducción.
- INSPIRE/SDI: Solución al acceso a GI heterogénea; Implementación con Open Source Software.
- gvSIG: Una propuesta de cliente de información geoespacial técnico de fácil uso y de acceso libre.

Ideal number of attendees: ¿50-100?

Identification, type and size of materials to be distributed; CD with readings and open source

Ideal preparation level of attendees: Average

Requested equipment (under consideration on availability); Projector

Contact: Álvaro Anguix Alfaro (alvaro.anguix@iver.es)