

The logo for FOSS4G 2006, featuring a stylized red and white graphic that resembles a map or a globe, with the text 'FOSS4G 2006' overlaid in a bold, black, sans-serif font.

# FOSS4G 2006 - Free And Open Source Software

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## Practical use of open source geo-information tools in Slovenia. Showcases: SAgMIS and Bioportal

In the article two information systems will be presented. SAgMIS is Slovenian agro meteorological information system, which has been developed in Meteorological office (Environmental Agency of Slovenia). The second is Bioportal developed in Centre for Cartography of Fauna and Flora in Slovenia. SAgMIS and Bioportal are geo-information system developed with open source tools, such as (mapserver, GRASS - GIS, php, cartoweb, postgresSQL, ...)

The main purpose of SAgMIS is distribution of agrometeorological information to the end user. There are two different types of data: point data (measurements of meteorological and agrometeorological parameters in different station distributed in Slovenian area) and spatialized data (radar and satellite images, interpolated values of different meteorological and phenological data). All data are kept in postgres and oracle relation databases in different computer servers. For visualization Cartoweb (Camptocamp) is used. The end-user can choose between different baseline geographical layers, such as terrain, topographic maps, orthophoto maps, rivers, borders of different regions etc. All spatialized data are preprocessed and interpolated with GRASS - GIS software. Satellite data are read directly from HDF5 format using GDAL library and directly from remote servers using WMS protocol. Bioportal was developed for distributing fauna and flora data to the end users. The structure of Bioportal is similar to SAgMIS. However Bioportal is a comprehensive web - GIS information system with emphasis on data visualization which is more developed than in SAgMIS.

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