



GeoBolivia the initiator Spatial Data Infrastructure of the Plurinational State of Bolivia's Node

Raul Fernando Molina Rodriguez (1) and Sylvain Lesage (2)

(1) Bolivia, Plurinational State Of (raul.molina@vicepresidencia.gob.bo), (2) Bolivia, Plurinational State Of (slesage@geo.gob.bo)

Started in 2011, the GeoBolivia project (www.geo.gob.bo)aims at building the Spatial Data Infrastructure of the Plurinational State of Bolivia (IDE-EPB by its Spanish initials), as an effort of the Vice Presidency of the State to give an open access to the public geographic information of Bolivia. The first phase of the project has already been completed. It consisted in implementing an infrastructure and a geoportal for accessing the geographic information through WMS, WFS, WCS and CSW services. The project is currently in its second phase dedicated to decentralizing the structure of IDE-EPB and promoting its use throughout the Bolivian State.

The whole platform uses free software and open standards. As a complement, an on-line training module was developed to undertake the transfer of the knowledge the project generated. The main software components used in the SDI are: gvSIG, QGis, uDig as GIS desktop clients; PostGreSQL and PostGIS as geographic database management system; geOrchestra as a framework containing the GeoServer map server, the GeoNetwork catalog server and the OpenLayers and Mapfish GIS webclient; MapServer as a map server for generating OpenStreetMap tiles; Debian as operating system; Apache and Tomcat as web servers.

Keywords:

SDI, Bolivia, GIS, free software, catalog, gvSIG, QGIS, uDig, geOrchestra, OpenLayers, Mapfish, GeoNetwork, MapServer, GeoServer, OGC, WFS, WMS, WCS, CSW, WMC.