MAPJAX - A WEBGIS OPENSOURCE FRAMEWORK FOR MANAGING AND REPORTING DISASTER RELATED INFORMATION

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ABSTRACT

The regional administration of environment (depending on the French Ministry of environment and sustainable development) uses Webmapping/WebGIS solutions based on Opensource since 2003.

The presentation is about a WebGIS solution (Mapjax) presenting the following flooding informations inside the same interactive regional atlas :

- detailed hydrogeomorphological informations
- flooding risk areas
- informations from "historical" flooding disasters with link to photos and documents.

This web atlas represents the regional synthesis of geodata provided by several Desktop GIS applications. The source data is organized drainage basin by drainage basin.

The WebGIS Web 2.0 interface gives access to some key features:

- advanced spatial request using the full potential of spatial operators provided by PostGIS database.
- export to different geodata formats including KML (KMZ).
- publish the data through OGC WMS and WFS geowebservices.
- publish the maps to high quality documents (odt, Word, pdf) by using the Openoffice API serverside.

One of the main challenges of this project was to automate the import of heterogeneous source geodata files to homogeneous (and OGC compliant) geodata tables in the spatial database PostGIS by Mapjax backoffice.

An other challenge was to reproduce the same quality of graphic semiology on the maps and cartographic documents produced by Mapjax frontoffice than the official governmental paper atlas.