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FIONA - SDI with PostgreSQL/PostGIS, GeoServer, UMN MapServer and Mapbender

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The Ministry of Agriculture of the Federal State of Baden-Wuerttemberg in Germany operates the online portal FIONA. The portal provides authenticated and secured access to 80.000 farmers who can measure, digitize and calculate their farmland areas to apply for subsidy grants.

The Project is implemented with Open Source technologies - PostgreSQL/PostGIS, GeoServer, UMN MapServer and Mapbender.

PostgreSQL/PostGIS handles more than 8.5 million farmland parcels. Read and write access to geographic features are provided by GeoServer as OGC WFS. The imagery served by MapServer WMS is overlayed with features served by GeoServer WFS. The Mapbender portal manages user access and orchestrates the OGC services.

The Ministry of Agriculture of the Federal State of Baden-Wuerttemberg in Germany operates the online portal FIONA. The portal provides authenticated and secured access to 80.000 farmers who can measure, digitize and calculate their farmland areas to apply for subsidy grants. The cadastral basemap comprises 8.5 million land parcels additional data sets comprise a topographical basemap as scanned raster data and vectorial infrastructure network (highways, railroads, roads, places, geographical names database), etc.

The FIONA Project is implemented with Open Source technologies. PostgreSQL/PostGIS handles more than 8.5 million farmland parcels.

Read and write access to geographic features (farmland parcels, landscape components) are provided by GeoServer. GeoServer is used as OGC WFS.

Both GeoServer and UMN MapServer access the same database PostgreSQL /

PostGIS. Load distribution is implemented for the WMS services only. The WMS has to handle approximately 10 times more requests than the GeoServer.

The Mapbender portal manages user access and orchestrates the OGC services GeoServer and MapServer. The imagery served by MapServer WMS is overlayed with features served by GeoServer WFS.

This presentation shall give an overview on FIONA and the cooperation of the different components and a live demo will be provided.

You can get an overview about the project: http://www.mapbender.org/index.php/FIONA_-_Online_Agricultural_Subsidy_Application_System

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