

GeonetCast Inception Report

SDI for water resource management

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At a glance

- Local SDI
 - Lowest level
 - Data is maintained and updated at the level where it is produced - geonetcast IFGI
- Water resource management
 - Improve access to spatial data and information
 - Support decision making

Software

- Geonetwork 2.4.2
 - Geoserver (web map server)
 - Intermap (map client)
- Apache Tomcat 6.0
- PostgreSQL 8.4 + PostGIS 1.4.0

Functionalities

- Searching of spatial data
- Up- and downloading of data
- Map viewer to combine WMS
- Metadata editing
- Harvesting and synchronization of metadata
- User and group management

Searching

- Implemented in Geonetwork
 - Quick search (predefined categories - base map, water bodies, hydrological data)
 - Simple search
 - Advanced search
- Result based on privileges and assigned group

Up- and downloading

- Implemented in Geonetwork
- Upload
 - Dataset in any format (doc, PDF, jpeg)
 - Only if user has a role as Editor or higher
- Download
 - Restricted by group

Map viewer

- Implemented in Intermap
- Can combine layers from various WMS (local or external)
- To do:
 - Change the base map

Metadata editing

- Only if user has a role as Editor or higher
- Create new metadata using predefined templates
 - Upload dataset
 - Define privileges for each group (publish, download, interactive map, featured, editing, and notify)
 - Define categories (base map, water bodies, hydrological data)
- Import metadata from XML

Metadata harvesting - synchronization

- Collect metadata from distributed servers
 - Geonetwork nodes
 - CSW (Catalog Services for the Web)
 - OGC Web Services (WMS, WCS, WFS)
- Scheduled synchronization
- Obstacles
 - It is not clear where and how to get the links

User - group management

- User
 - Has only 1 profile
 - Belong to, at minimum, 1 group
- Group
 - No specific requirement

Profile

- Administrator (super user)
- User administrator (add/import metadata, transfer ownership, user management)
- Content reviewer (add/import metadata)
- Editor (add/import metadata)
- Registered user (view)

Publishing services

- Implemented in Geoserver
- Coverage/raster data
 - GeoTiff
- Vector data
 - PostGIS
 - Shapefile
- Publish as OGC Web Services (WMS, WCS)
- Obstacles:
 - How to provide services to external organizations

Thank you!