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!