

#### 3 Jornadas gvSIG 2007

#### Jeroen Ticheler



Food and Agriculture Organization of the United Nations



Board of directors OSGeo





#### • What is it?



• What is it?

Positioning GeoNetwork in the infrastructure



- What is it?
- Positioning GeoNetwork in the infrastructure
- Users, Publishers and Administrators

## Overview

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- Positioning GeoNetwork in the infrastructure
- Users, Publishers and Administrators
- Adding the glue to a

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- Positioning GeoNetwork in the infrastructure
- Users, Publishers and Administrators
- Adding the glue to a
- Spatial Data Infrastructure
- The GeoNetwork Community, OSGeo (and parallels with gvSIG)

## History at a Glimpse

- Prototyping by FAO (2000-2001)
- Version I by FAO & WFP (released 2003)
- Version 2 by FAO, WFP & UNEP (released 2005)
- Version 2.1 (released September 2007)
- Version 2.2 (soon)
- Version 3.0 in planning phase (2008)



## What is GeoNetwork opensource?

A web based catalogue application

- A component in the Global Spatial Data Infrastructure
- The foundation of a custom site

## What is GeoNetwork opensource?

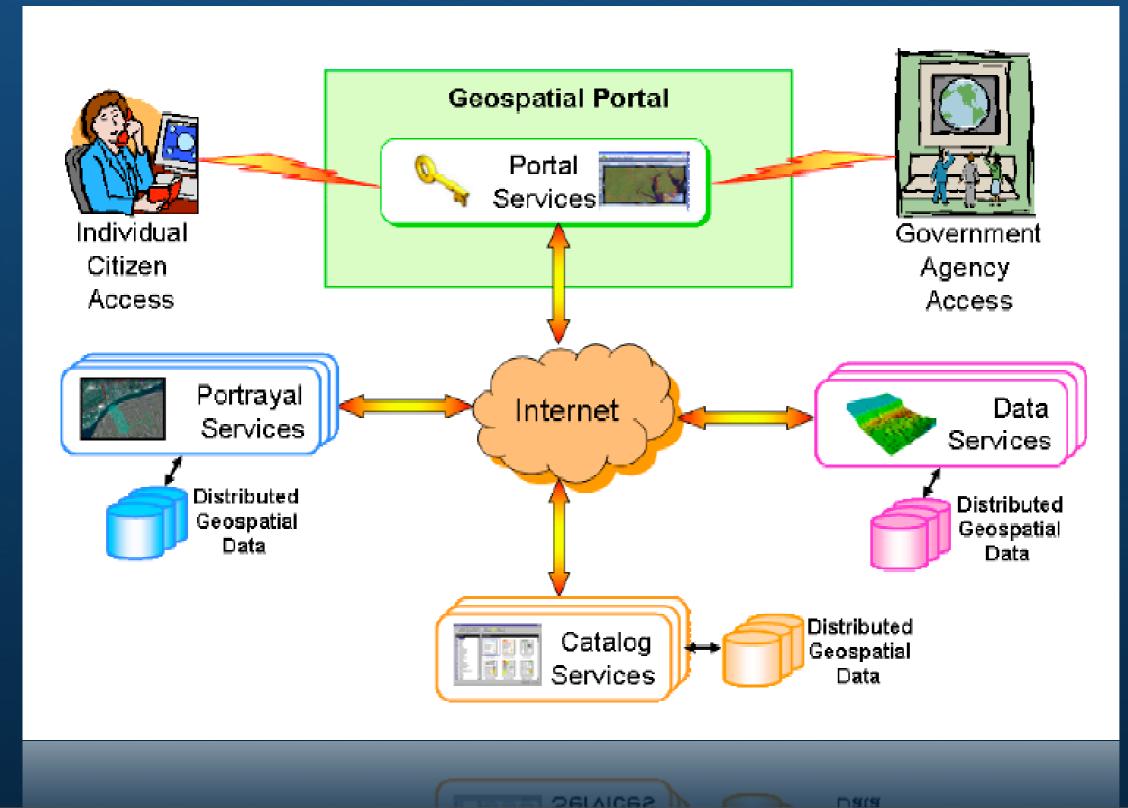
- It integrates
  - Search
  - Administrative functions
  - Data distribution and publication
  - User authentication

## The Basic Building Blocks

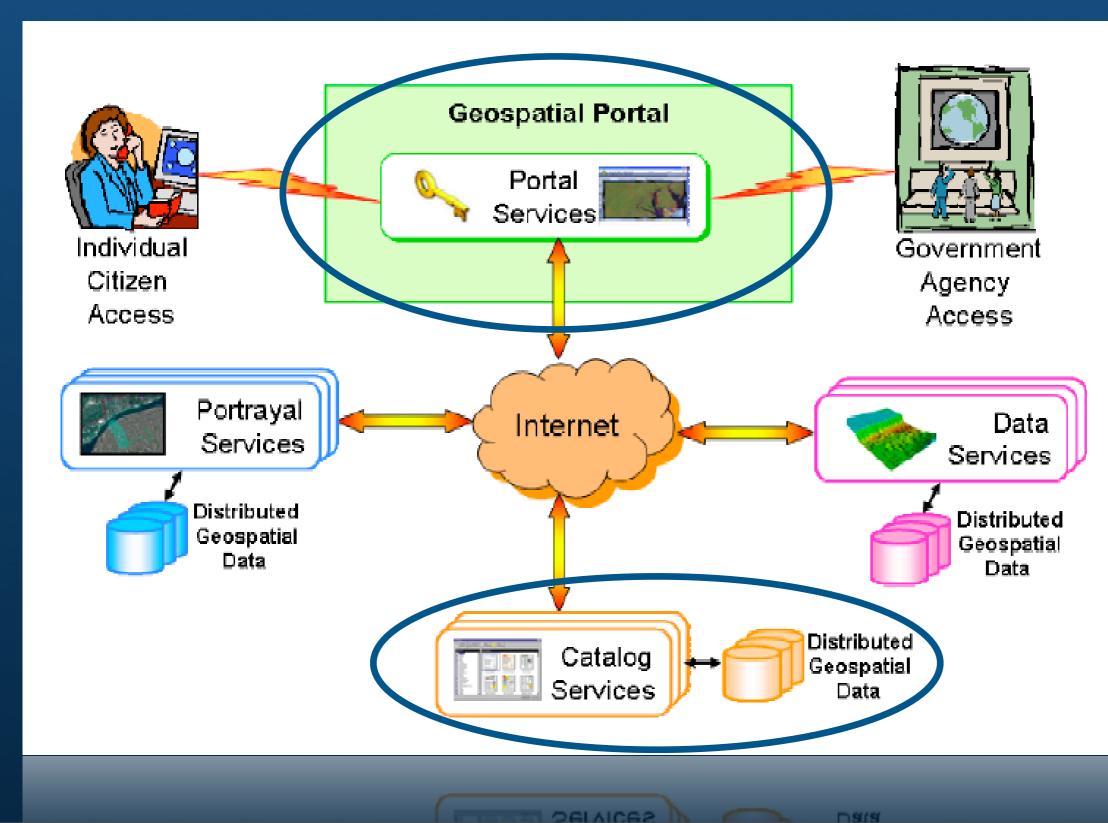
#### ISOTC211 Standards

 OGC Standards (Open Geospatial Consortium)

### OGC Portal Reference Architecture

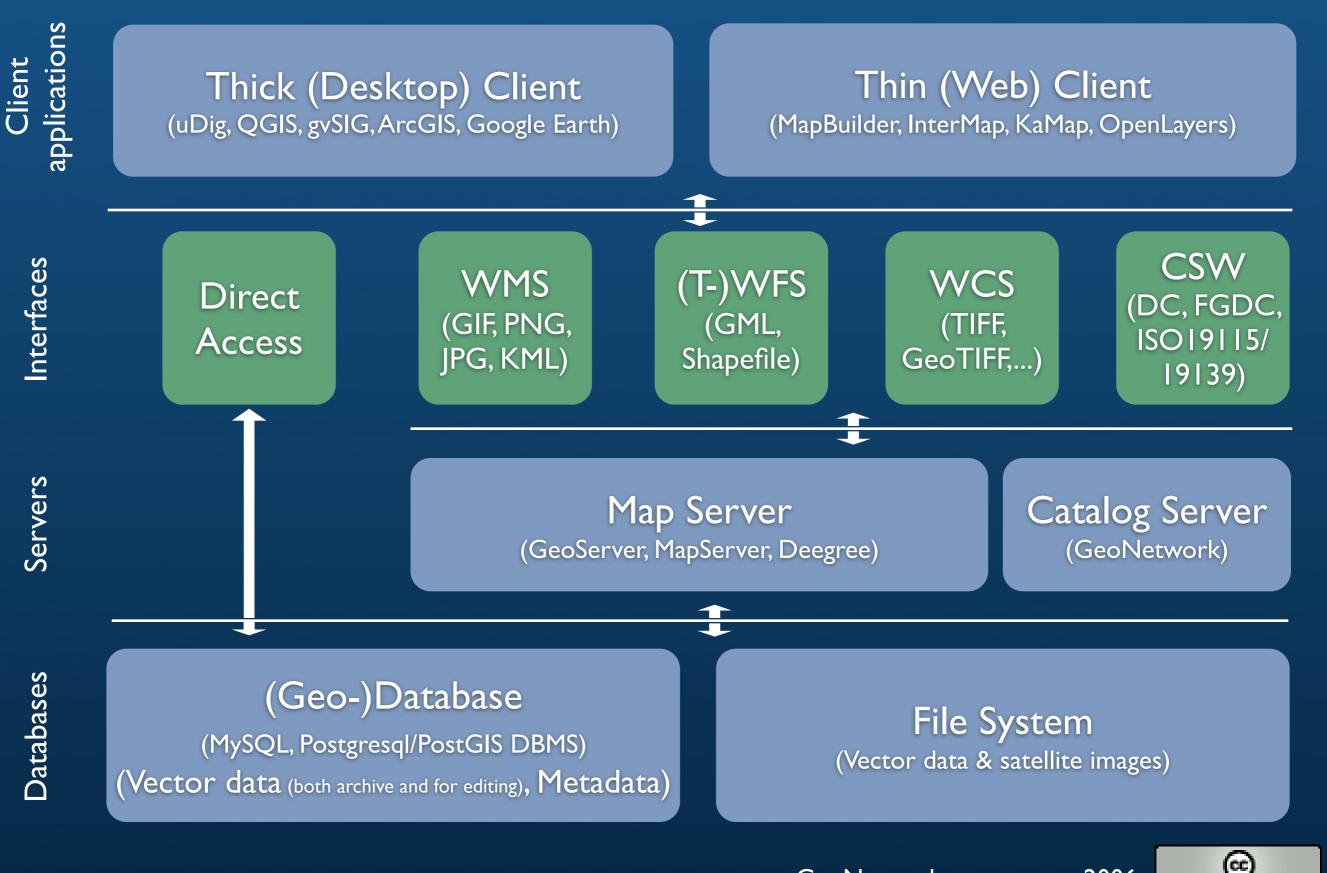


## OGC Portal Reference Architecture



**GeoNetwork** 

#### GEOFOSS based SDI Software Architecture



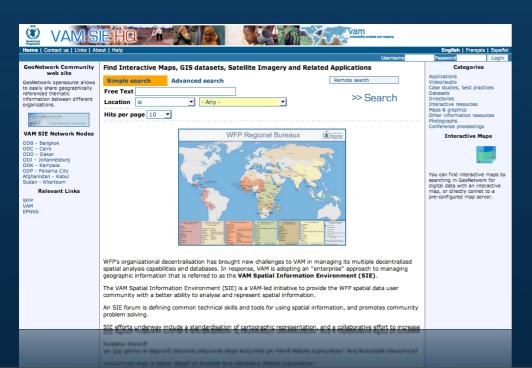
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Users, Publishers and Administrators

#### GeoNetwork opensource

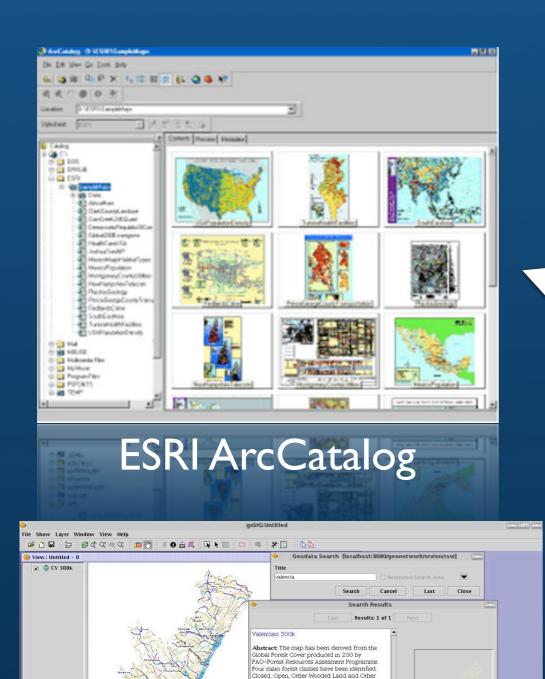


#### **WFP VAMSIE**



#### CGIAR-CSI

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## Tool integration

#### GeoNetwork opensource



Export/import metadata & data



- Search in multiple catalogues through one website
- File download
- Data visualization through web map viewer

#### AJAX based GUI

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#### AJAX based GUI

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What? Hydrological basins	AGGREGATE RESULTS MATCHING SEARCH CRITERIA: 1-2/2 (PAGE 1/1)	
Where?	Logo       HYDROLOGICAL BASINS IN AFRICA         Abstract       Major hydrological basins and their sub-basins. This dataset divides the African continent according to its hydrological characteristics. The dataset consists of the following information:more         Keywords watersheds, river basins, water resources, hydrology, AQUASTAT, AWRD, Africa	
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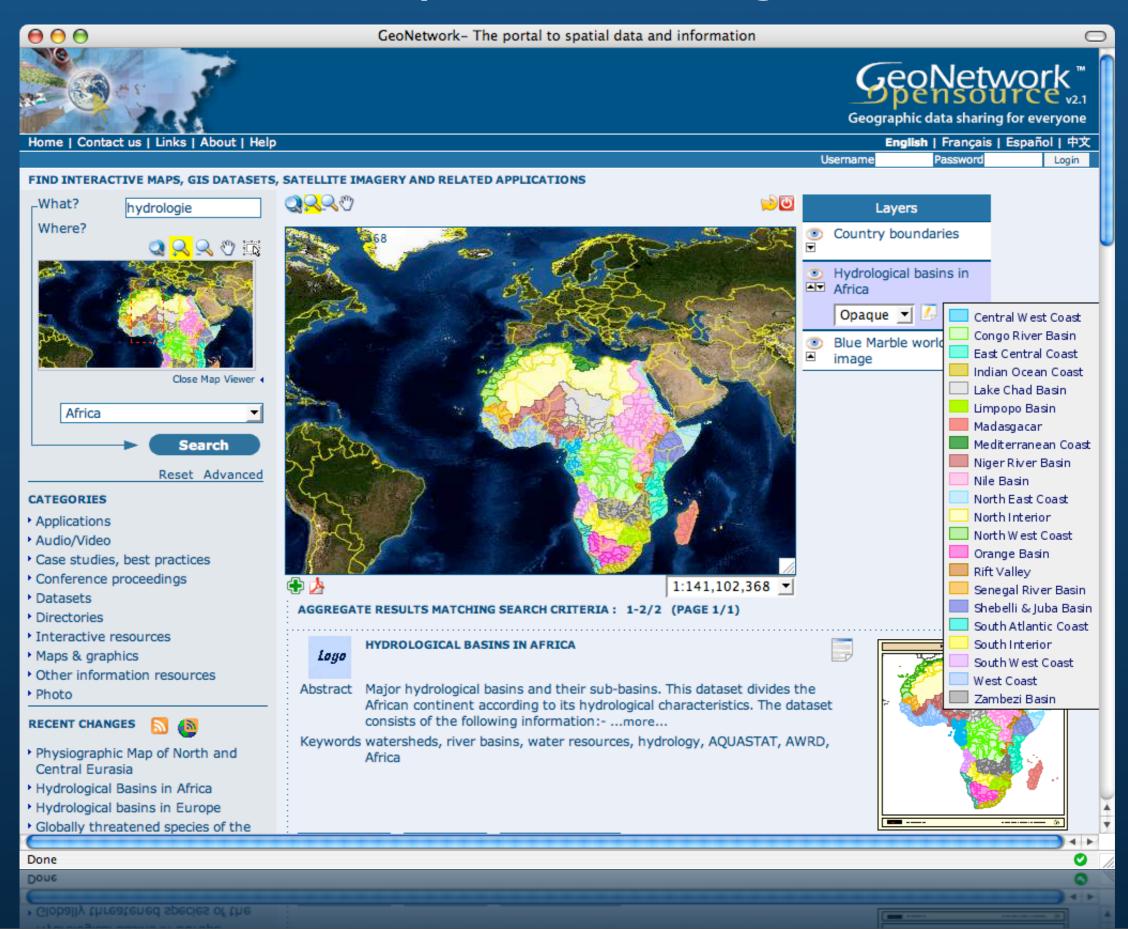
# One entry point

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	Metadata       Interactive Map       View in Google Earth         Interactive Map       View in Google Earth	
	Abstract This coverage is one of a series of market access surfaces created using the Arc Info network module. Using assumed travel times to define the shortest routes, Arc Info calculated the shortest distamore	
	<ul> <li>Rio Minho-Milk river basin</li> <li>Abstract Include: Rio Minho reservoir sites (Plate 1) - Proposed pindars dam site with generalized geology (Plate 2) - Clarendon plains land use and land property inventory (Plate 3) - Reconnaissance geologymore</li> <li>Metadata</li> </ul>	
	Livestock census data for Guanajuato in 1991         Abstract       Livestock census data by municipalities of Guanajuato, emited in the agricultural census of 1991 by INEGI         Keywords       livestock census, bovine, ovine, pig, beehive, rabbit, donkey, goat, horse, pine, fir, oak, units of production, Mexico,         Metadata	2
	<ul> <li>Sri Lanka - Poverty at District Level</li> <li>Abstract This data set includes information collected for the Sri Lanka poverty mapping project conducted by the International Water Management Institute. The project combined synthetic area small area estimamore</li> <li>Metadata</li> </ul>	2
	Abstract This data set includes information collected for the	
	Abstract This data set includes information collected for the Sri Lanka poverty mapping project conducted by the International Water Keywords Population, Household, Agriculture, Poverty, Sri Lanka	
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#### AJAX based GUI

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<ul> <li>Applications</li> <li>Audio/Video</li> <li>Case studies, best practices</li> <li>Conference proceedings</li> <li>Datasets</li> <li>Directories</li> <li>Interactive resources</li> <li>Maps &amp; graphics</li> <li>Other information resources</li> <li>Photo</li> </ul>	Logo         HYDROLOGICAL BASINS IN AFRICA           Abstract         Major hydrological basins and their sub-basins. This African continent according to its hydrological char consists of the following information:more           Keywords watersheds, river basins, water resources, hydrolo Africa	s dataset divides the racteristics. The dataset
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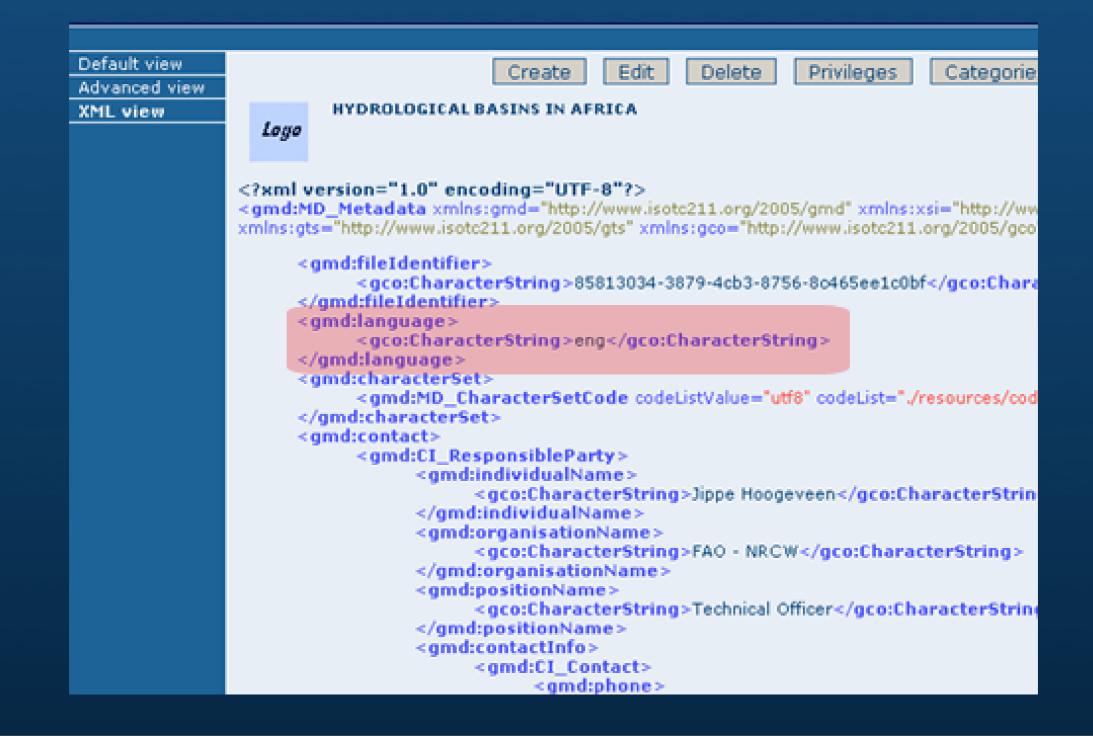
#### Web Map Viewer integration



### Data Providers

- Standardized process to document and publish
- Online metadata editor
- Different metadata standards
- Different sharing / security levels
- File upload

## Full ISO metadata support 19115:2003 / ISO19139:2007



## Web metadata editor

Advanced view		
XML view		
	::Identification info *	
	Title *	Hydrological Basins in Africa
	Date *	2000-07-19T14:45:00
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	Abstract Abstract brief narrativ mandatory	Major hydrological basins and their sub-basins. This dataset gical e summary of the content of the resource(s) BAS and
		(MAJ_AREA); - numerical code and name of the sub-basin (SUB_BAS and SUB_NAME); - area of the sub-basin in square km (SUB_AREA); - numerical code of the sub-basin towards which the sub-basin flows (TO_SUBBAS) (the codes -888 and -999 have been assigned respectively to
	Purpose 🗵	This dataset is developed as part of a GIS-based information system on water resources for the African continent. It has been published in the framework of the AQUASTAT - programme of the Land and Water Division of the Food and Agriculture Organization of the United Nations, as part of FAO Land and Water Digital Media
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#### Administrators

- Easy to install
- Easy to maintain
- Groups and users management
- Harvesting management
- Migration support
- Active user and developer communities

# Adding the glue to a Spatial Data Infrastructure







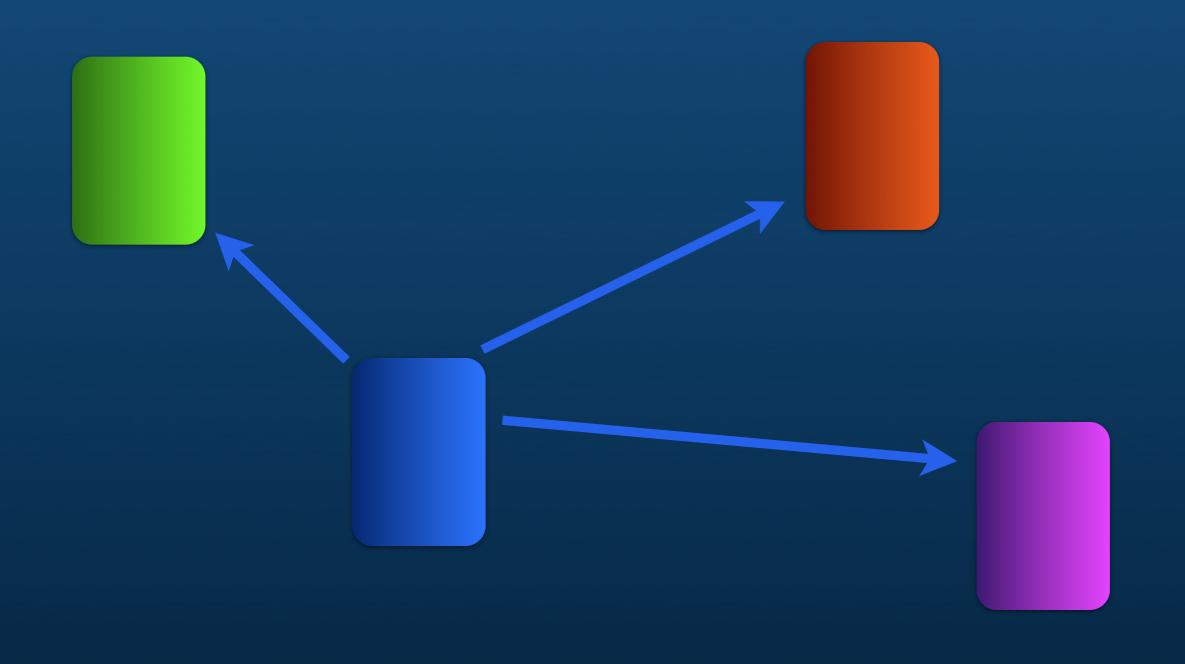


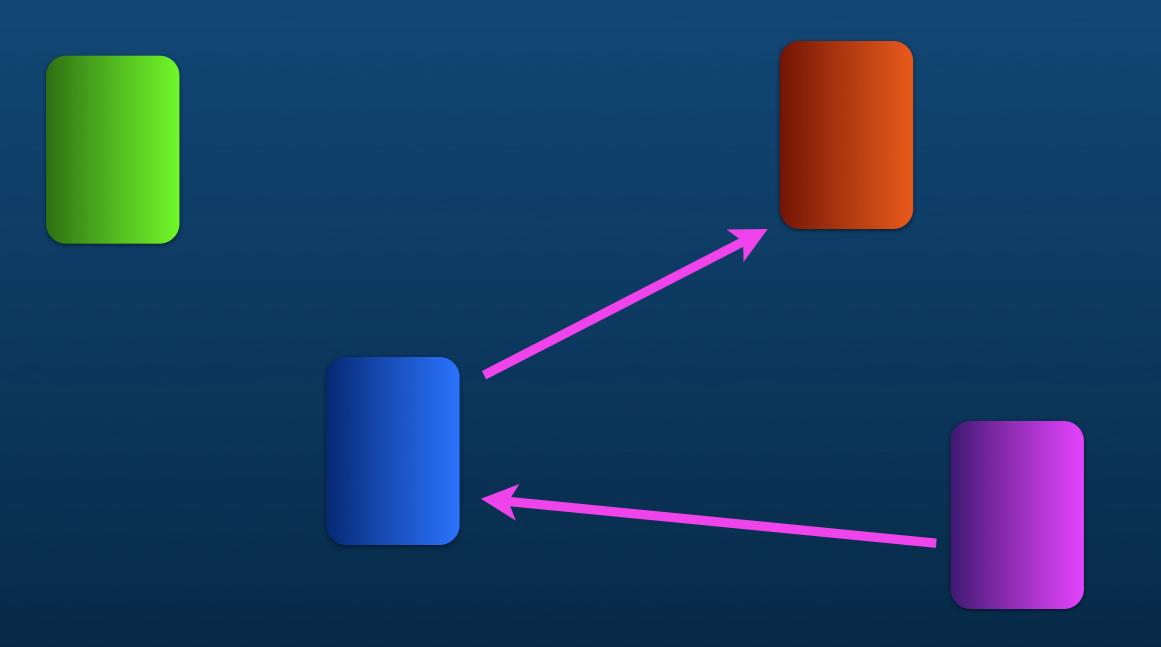


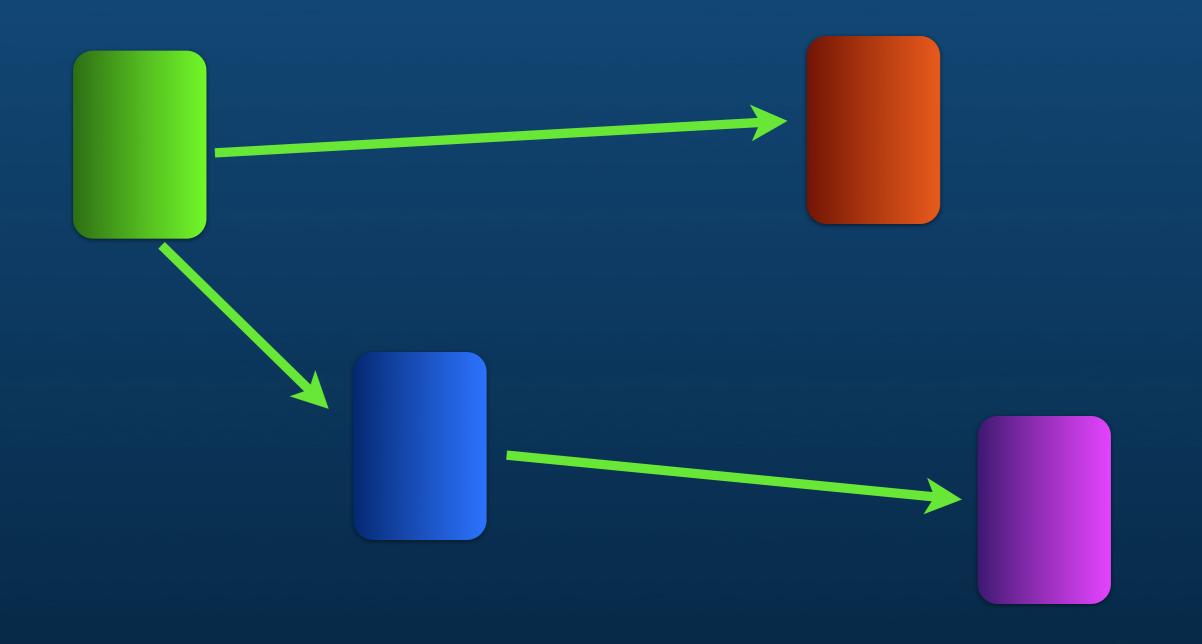




















## OGC CSW 2.0 Reference Implementation



OGC® Home OGC Network™ OGC User™ OGC Forum

Compliance and Interoperability Testing Initiative (CITE)

#### Catalogue Services/Web 2.0.1

- Developed by: United Nations Food and Agriculture Organization
  - (UN FAO)
- Product Name: GeoNetworksen
- License: GNU GPL
- GeoNetwork opensource is a s catalog application to manage the web. It provides powerful as well as an embedded intera

catalog application to manage the web. It provides powerful as well as an embedded inter

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Server		Communication log	
Host	localhost	<pre> <?xml version="1.0" encoding="UTF-8"?></pre>	4
Port	8080	<pre><rxmi :="" encourng="orr-8" version="1.0"> <ok></ok></rxmi></pre>	
CSW service	/geonetwork/srv/en/csw		
Login service	/geonetwork/srv/en/xml.user.login		
Login Username a Password aa	aaaa	POST /geonetwork/srv/en/csw HTTP/1.1 Host: localhost:8080 Connection: close Accept: application/xml Accept-Charset: utf-8 Cache-Control: no-cache	
Request Operation Ge Method PC	etRecords 💌	User-Agent: GeoNetwork-csw-client/2.0.1 Cookie: JSESSIONID=171oh5xrqb91e;Path=/geonetwork Content-Type: application/xml; charset=utf-8 Content-Length: 397	
	Send	xml version="1.0" encoding="UTF-8"? <csw:getrecords 1.1.0"="" service="CS&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;Result type&lt;br&gt;Output scher&lt;br&gt;Element set i&lt;/th&gt;&lt;th&gt;Query Results&lt;br&gt;hits&lt;br&gt;na ogccore&lt;br&gt;name summary&lt;/th&gt;&lt;th&gt;&lt;csw:Query&gt;&lt;br&gt;&lt;csw:ElementSetName&gt;summary&lt;/csw:ElementSetName&gt;&lt;br&gt;&lt;csw:Constraint version=" xmlns:csw="http://www.opengis.net/cat/csw"> <csw:constraint version="1.1.0"> <csw:constraint version="1.1.0"> </csw:constraint> </csw:constraint> </csw:constraint> </csw:constraint> </csw:constraint> </csw:constraint> </csw:constraint></csw:constraint></csw:constraint></csw:constraint></csw:constraint></csw:constraint></csw:constraint></csw:constraint></csw:getrecords>	=
Output form Start position Max records Sort by		<pre><?xml version="1.0" encoding="UTF-8"?> <csw:getrecordsresponse xmlns:csw="http://www.opengis.net/cat/csw"> <csw:searchstatus status="complete"></csw:searchstatus> <csw:searchresults <="" csw:getrecordsresponse="" numberofrecordsmatched="1" numberofrecordsreturne=""> </csw:searchresults></csw:getrecordsresponse></csw:getrecordsresponse></csw:getrecordsresponse></csw:getrecordsresponse></csw:getrecordsresponse></csw:getrecordsresponse></csw:getrecordsresponse></csw:getrecordsresponse></pre>	

• Full OGC CSW Catalog v2.0 support (ISO profile)

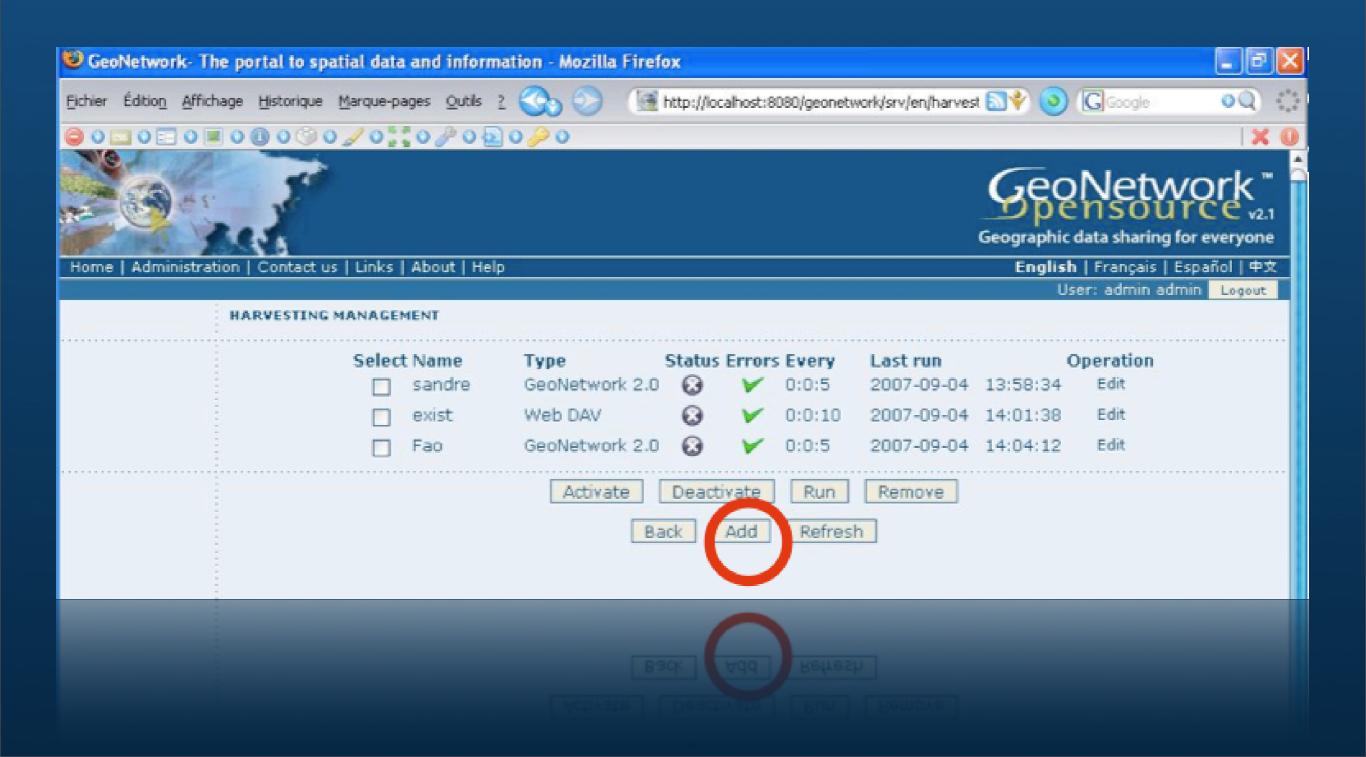
- Full OGC CSW Catalog v2.0 support (ISO profile)
- Open Archive Initiative support (OAI-MPH)

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- Open Archive Initiative support (OAI-MPH)
   RSS and GeoRSS newsfeeds

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- WebDAV

- Full OGC CSW Catalog v2.0 support (ISO profile)
- Open Archive Initiative support (OAI-MPH)
- RSS and GeoRSS newsfeeds
- OpenSearch with GEO extension
- WebDAV
- Metadata harvesting & synchronization



GeoNetwork Community

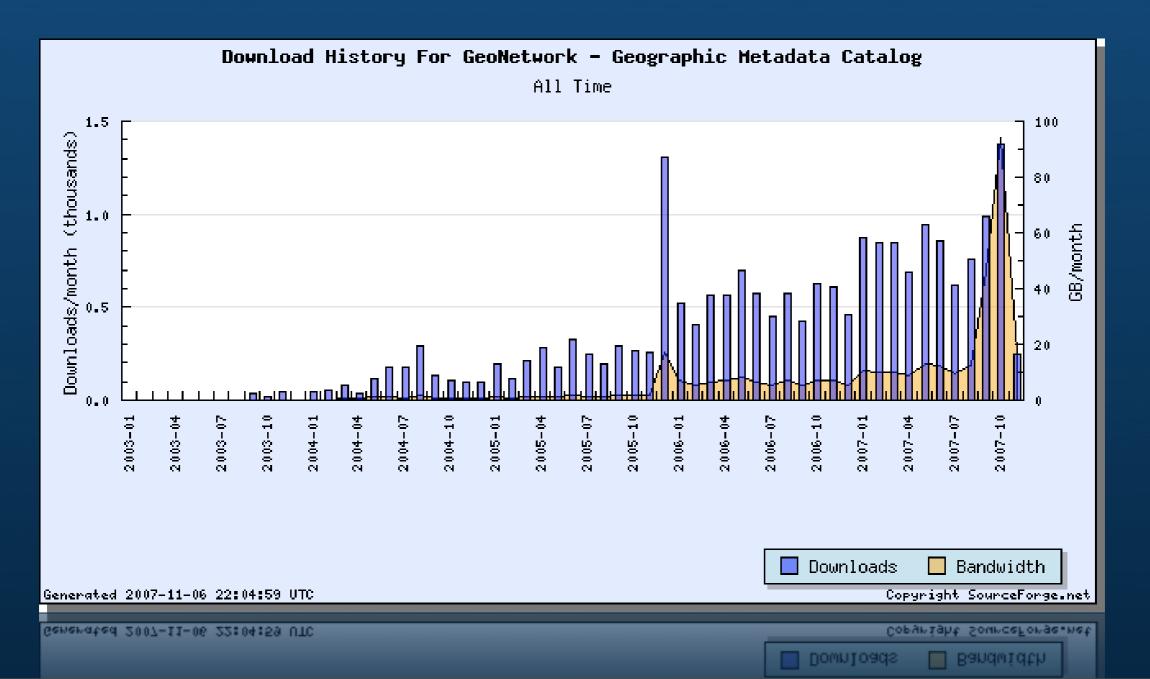
## Users

- UN: FAO, WFP, UNEP, WHO, OCHA, UNHCR
- Other: CGIAR, ESA, GMFS, FGDC, JRC
- Individual projects in Spain, France, Czech, UK, Australia, South Africa, ...
- GEOSS related GEOportal project and Clearinghouse project

## Some statistics

## Some statistics

### • Last month we had 1379 downloads!!



## Some statistics

Some statistics Mailing list subscribers 250+ on user list 50+ on developer list 20+ on committer list

~5 active developers

# Mailing list activity

Nabble   Software » GIS » OSGeo.org » OSGeo Projects	ster
Parent Categories: OSGeo.org	
OSGeo Projects	<u>)ry</u>
Search: This category - Go >	»
This category contains the mailing lists for projects are part of the Open Source Geospatial Foundation (OSGeo)	
Child Categories/Forums (14): Sort by activity Sort alphabetically          MapGuide Open       GeoNetwork       MapBuilder       Ossim-developer         Source       GRASS       GeoTools, the java       Mapbender       OSGeo Education         OpenLayers       GIS toolkit       Ouantum       Cord GIS       OSGeo GeoData Project         MapServer       GDAL - Dev       GDAL - Dev       Ostimular       Ostimular	
- GDAL - Dev	

# GeoNetwork & OSGeo

- Going through incubation
- Move to OSGeo infrastructure
- Formalizing the project governance
- Many parallels to gvSIG



## Benevolant Dictator



## Concensus based democracy



Formalizing the project governance

- Advisory Board
- Project Steering Committee (day-to-day)
- Proposals for new developments
- Release strategy



## GeoNetwork-opensource.org

In the PULL Name

### COONCENCE a starsland Geography Cots and extension Management System for the sect

**eoNetwork** 

GeoNetwork opensource provides: Description of the Arrive States of the Arrive States OWNERS I DESIGNATION. the and descentioning of and, granted second and any other control law An experience with this billion is continue that they Introduce from physically property property for month

### InterMap operatories

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### Free and Open Source Software

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GeoNetwork | a major step towards laster and better supprises to the complex intermation needs of decision makers.



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### Community involution

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