Activités SDI

UNIGE/Inst. des Sciences de l'Environnement/enviroSPACE Lab.

&

UNEP/GRID-Geneva

enviroSPACE et UNIGE/GRID

Prof. Anthony Lehmann	Prof. Hy Dao
Dr. Nicolas Ray	Dr. Nicolas Ray
Dr. Gregory Giuliani	Dr. Gregory Giuliani
Dr. Pierre Lacroix	Dr. Pierre Lacroix
Dr. Martin Schlaepfer	Dr. Andrea de Bono
Yaniss Guigoz	Yaniss Guigoz
Karin Allenbach	Karin Allenbach
Ana Gago da Silva	Bruno Chatenoux
Denisa Rodila	Pierric de Laborie
(Alain Dubois)	Christian Herold
	Jean-Philippe Richard
	Stefan Schwarzer
	Cédric Gampert
	Dr. Carmen Cianfrani

FP7 EOPOWER & FP7 IASON

Earth Observation for Economic Empowerment
Coordination, 13 partners (2013-2015)
http://www.eopower.eu

Fostering sustainability and uptake of research results through Networking activities in Black Sea & Mediterranean areas
Partner, WP leader (2013-2015)
http://iason-fp7.eu

- promouvoir l'utilisation des données d'observation de la Terre
- faciliter le développement de modèles hydrologiques
- renforcer les capacités en SDI
- faciliter la collaboration entre Commissions de la Mer Noire et Commission du Danube (ICPDR et BSC)

FP7 EcoArm2ERA & SCIEX enviroPAD

Towards Armenia's integration into the ERA
Partner, WP leader (2011-2014)
http://www.ecoarm2era.eu

sciex.ch

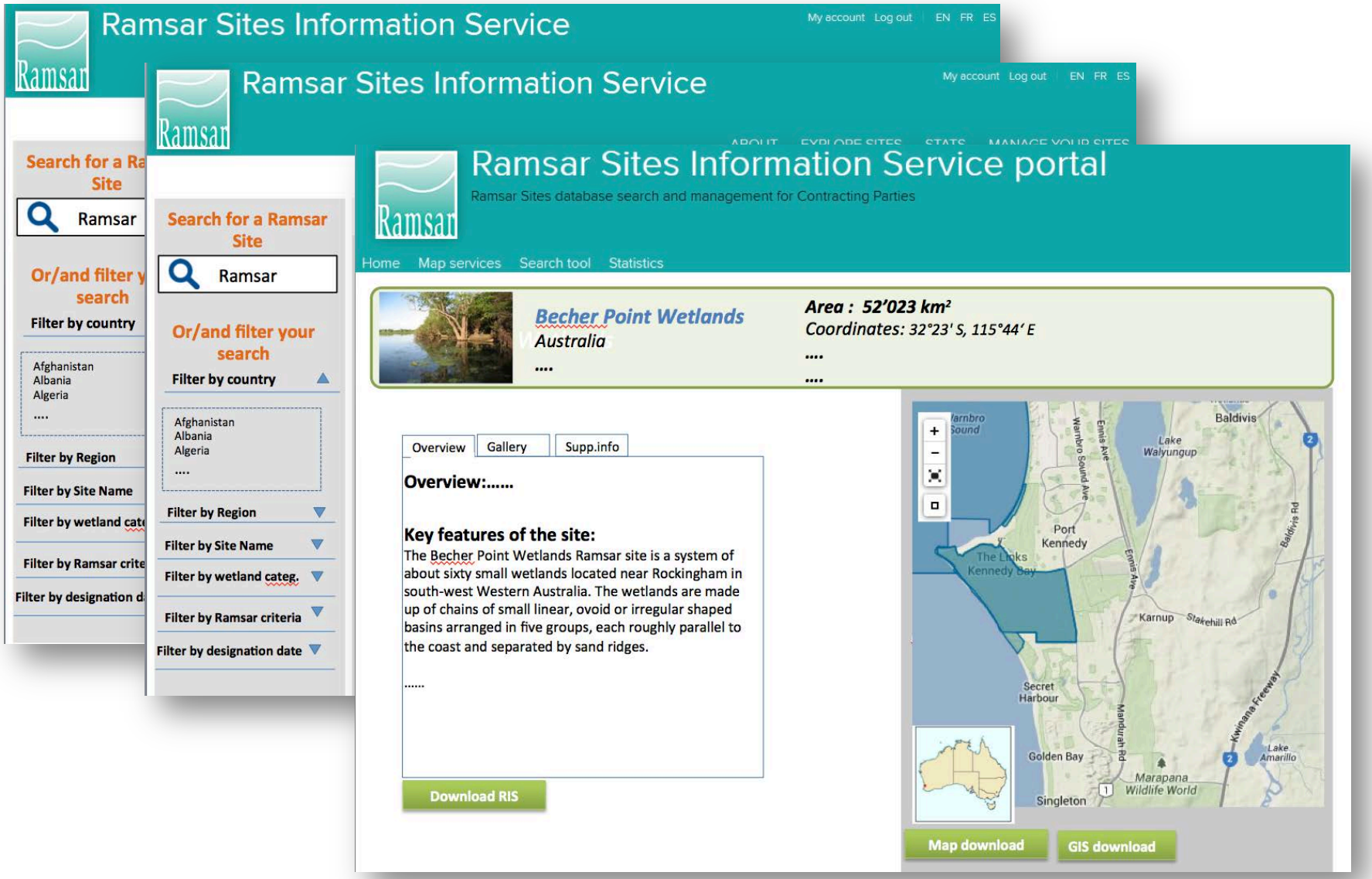
enviroPAD : Efficient Development and Execution of Environmental Applications on Parallel and Distributed Infrastructures
Coordination (2013-2014)
http://www.unige.ch/envirospace/Projects/enviropad.html

- optimisation de la modélisation par calcul distribué
- modélisation hydrologique du Lac Sevan en Arménie

Integrated Coastal Zone Management (ICZM)

Partner (2010-2014)
http://www.pegasoproject.eu

RAMSAR – Sites Information Service

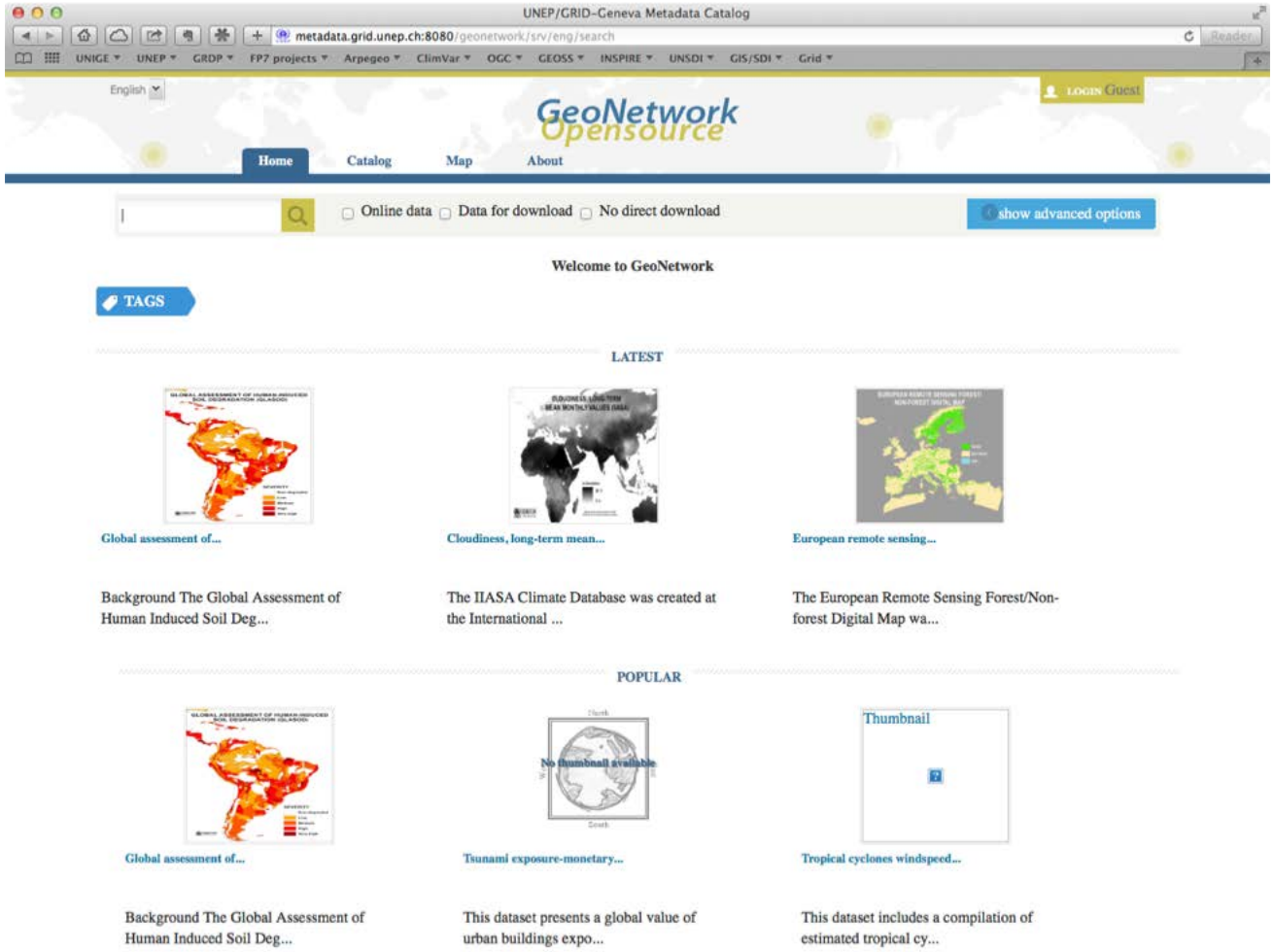


Plusieurs projets soumis ou à soumettre

- services écosystémiques
- renforcement des capacités EO
- interopérabilité des SDI (forêts, climat)

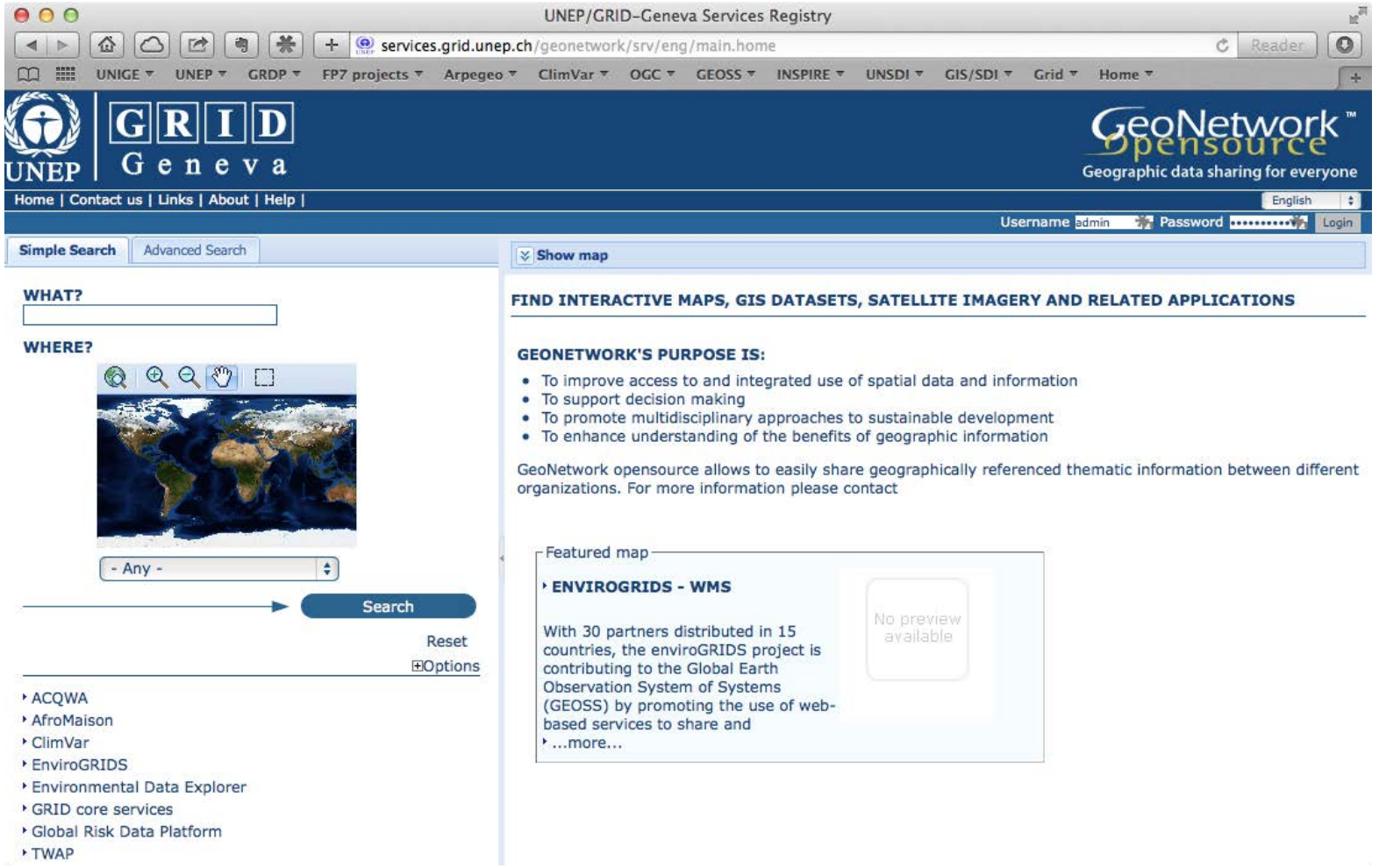
UNIGE/GRID SDI

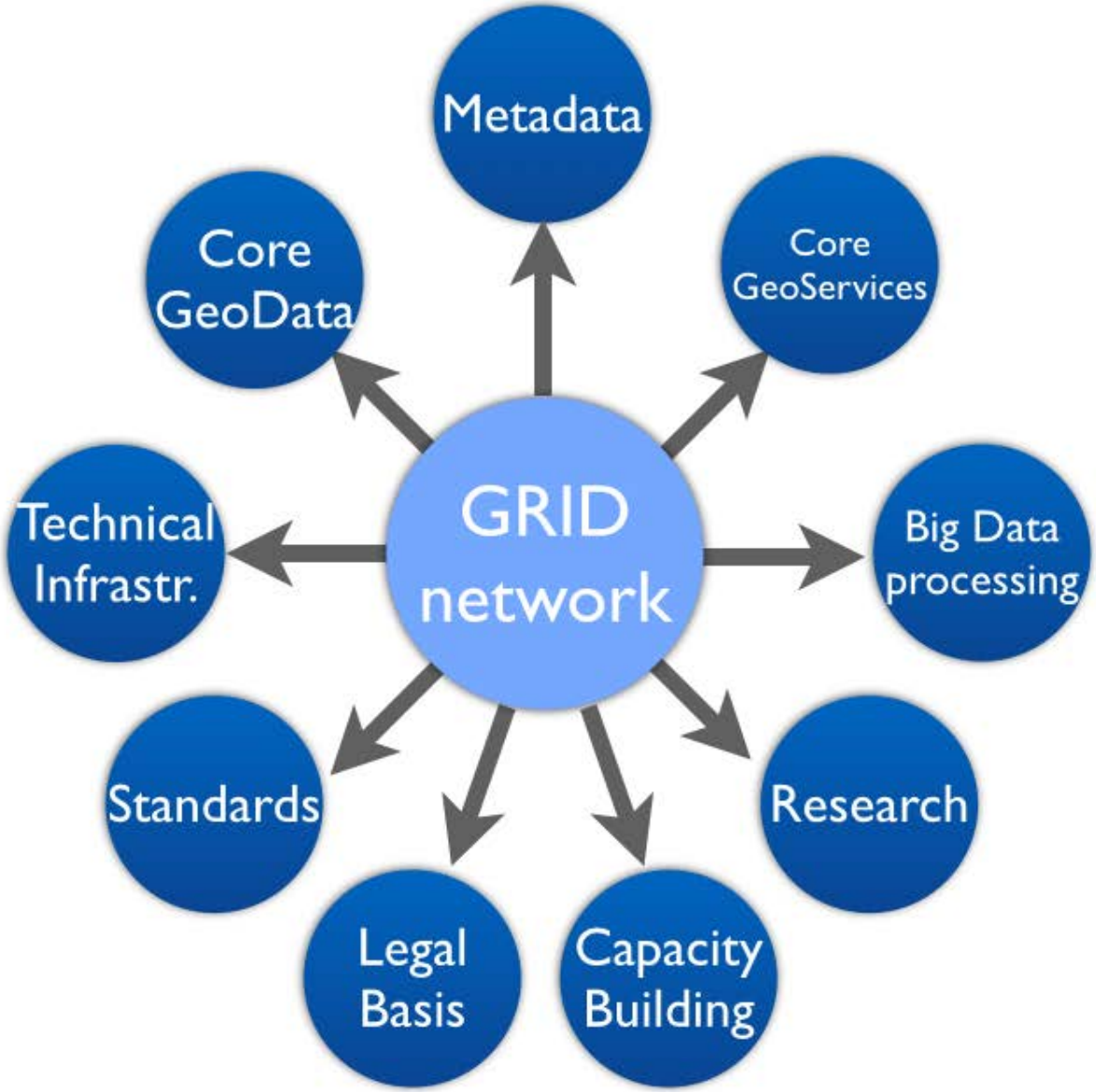
New metadata catalog: http://metadata.grid.unep.ch



UNIGE/GRID SDI

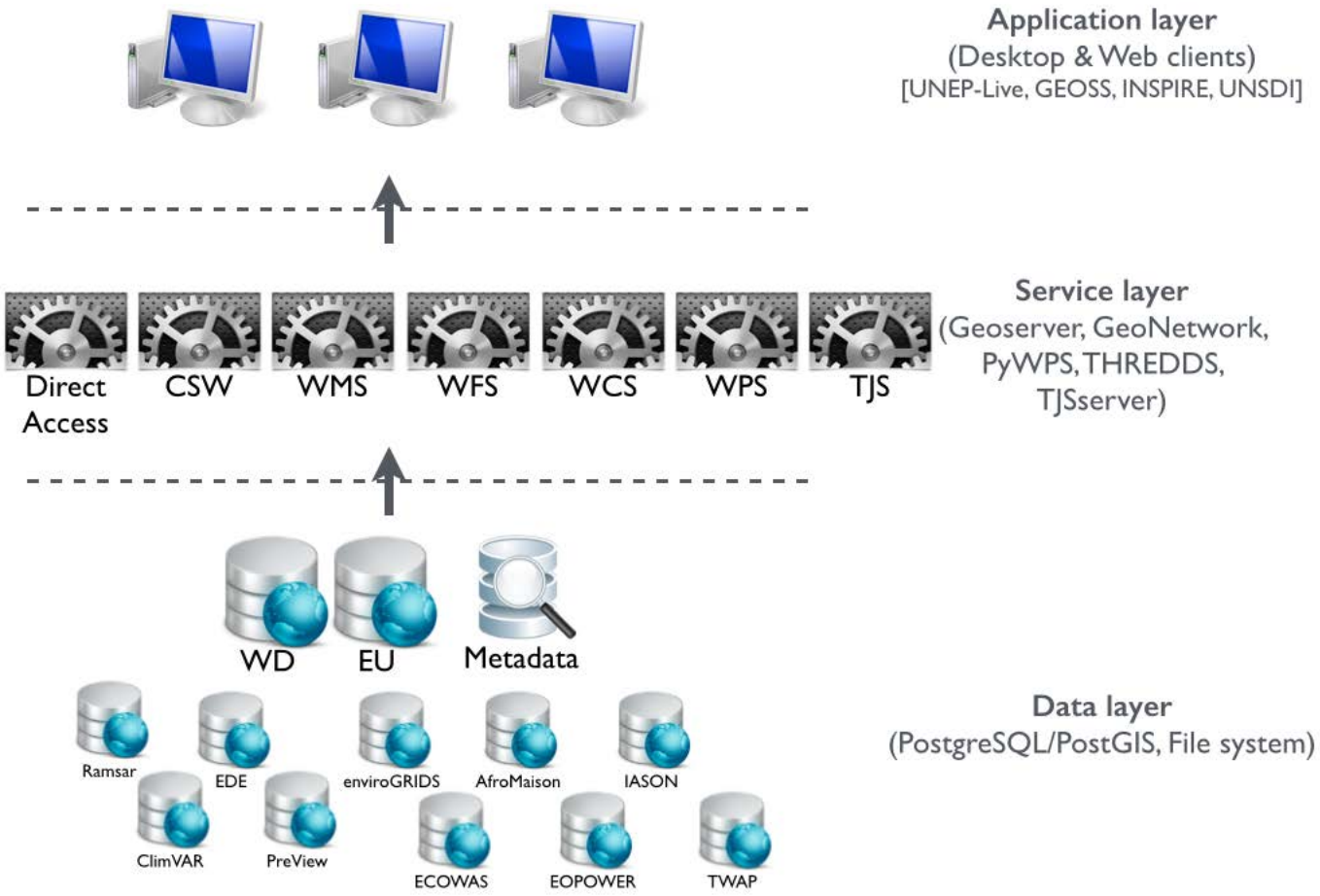
Services registry: http://services.grid.unep.ch




Metadata
Core GeoData
Core GeoServices
Technical Infrastr.
GRID network
Big Data processing
Standards
Research
Legal Basis
Capacity Building

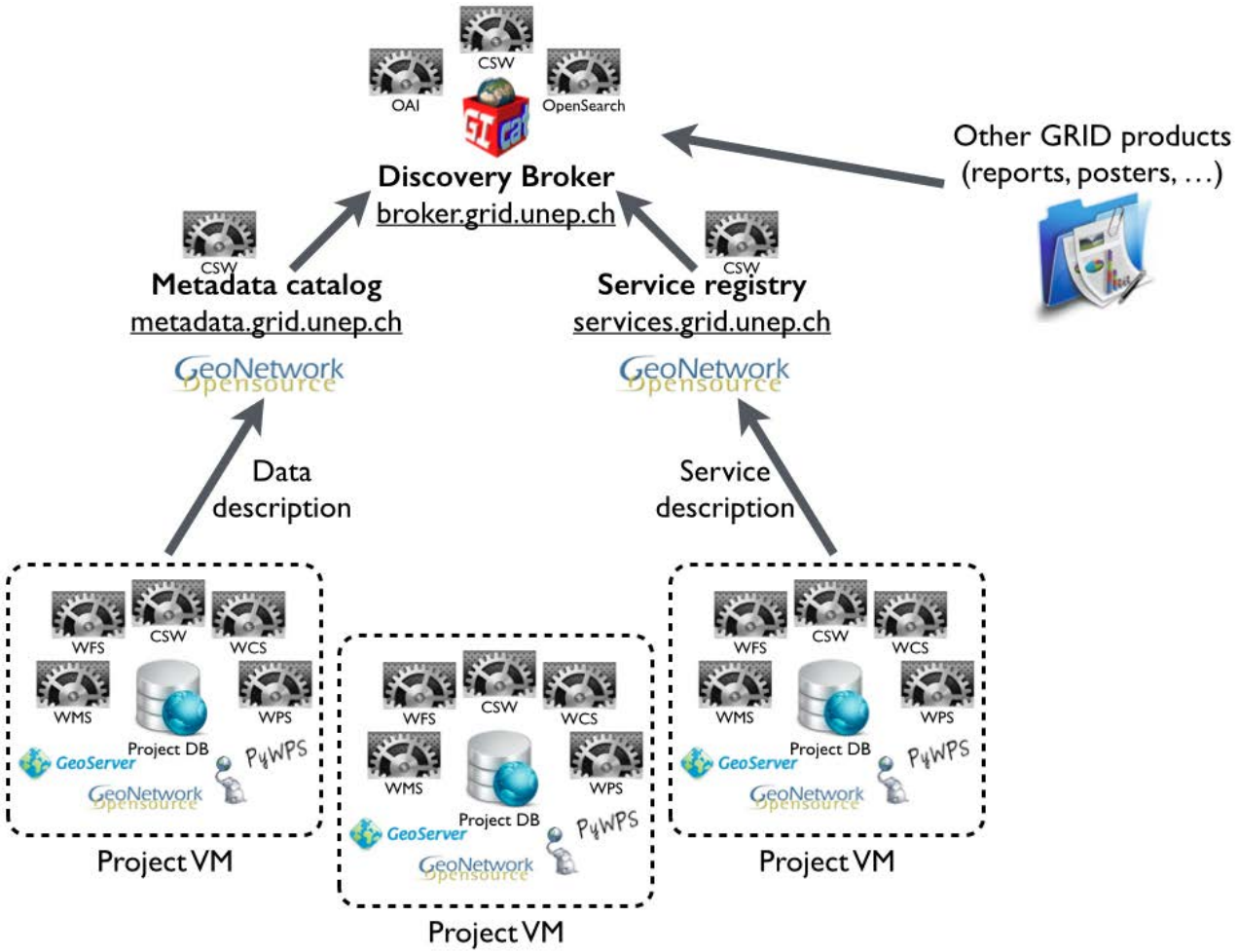
UNIGE/GRID SDI

Service Oriented Architecture



UNIGE/GRID SDI

Service Oriented Architecture



UNIGE/GRID SDI

Guidelines

Spatial Data Infrastructure (SDI) Architecture

Spatial Data Infrastructure (SDI) Organization & Governance

Metadata Production Guideline

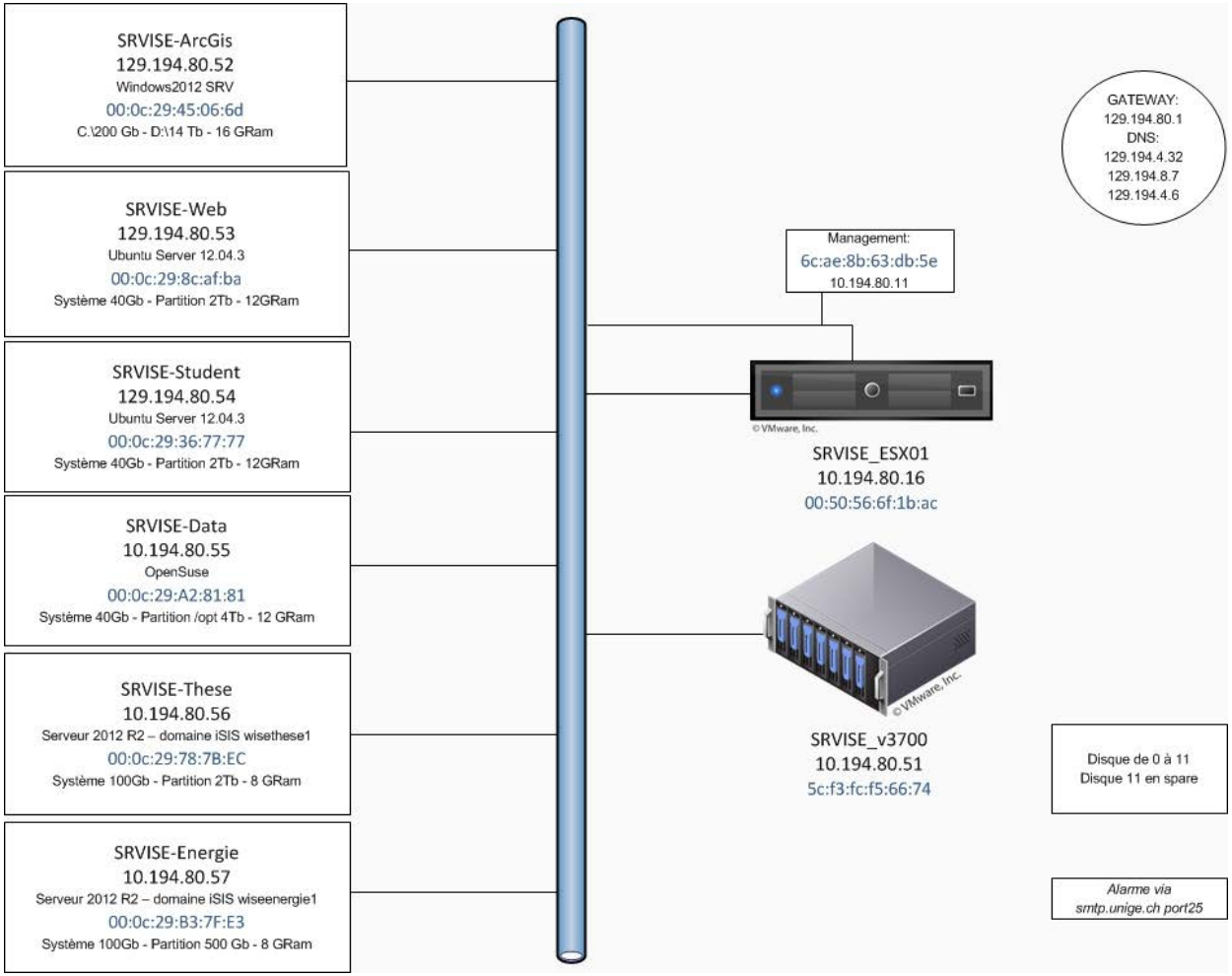
Data and Metadata Publication Guideline

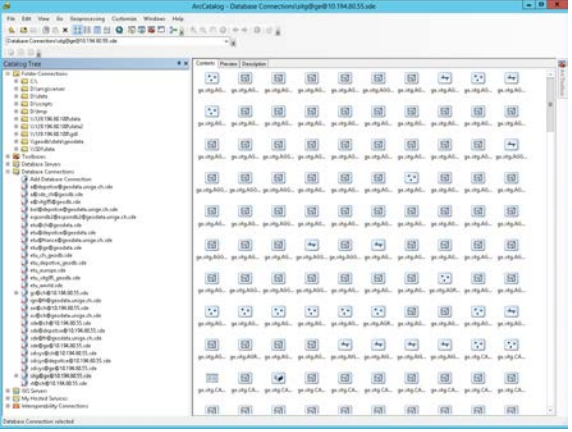
UNIGE/GRID SDI tasks

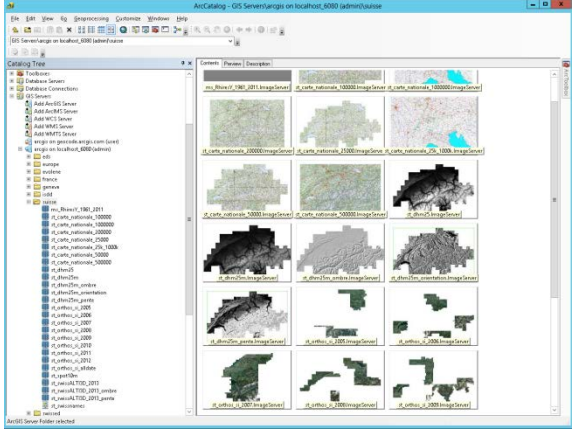
SDI-related projects

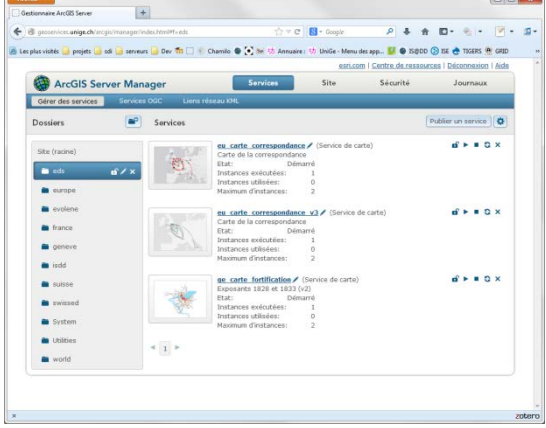
UNIGE/GRID SDI

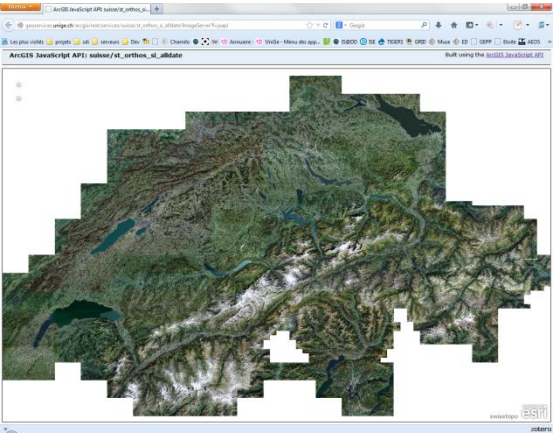
Ongoing work: data publication of PhD/Masters students

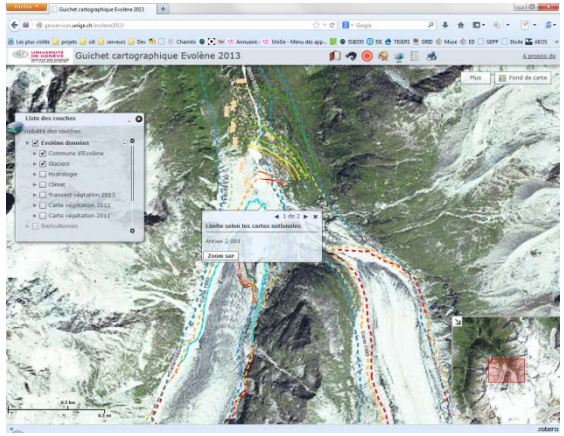


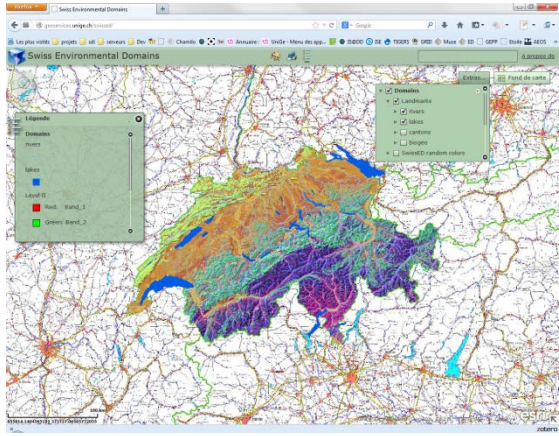


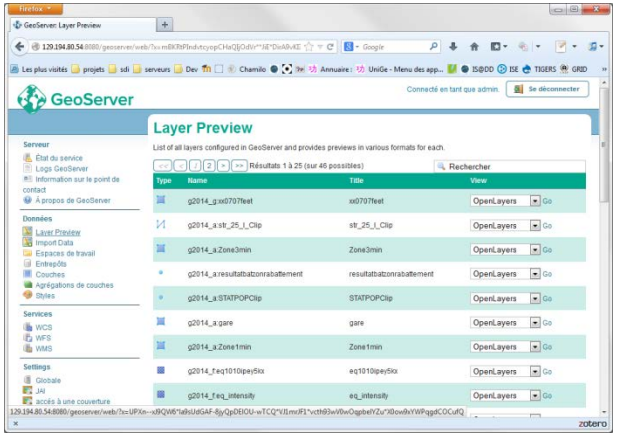


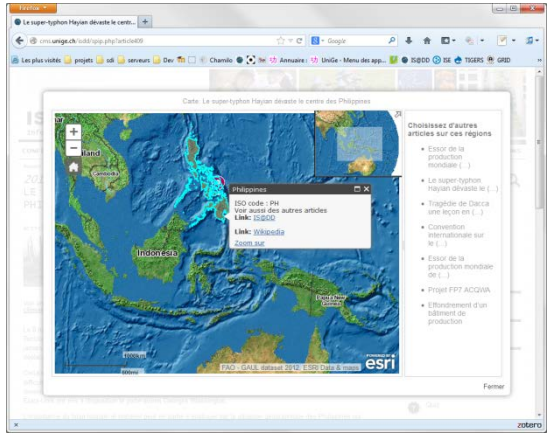

ArcGIS Server Manager
Services
Site
Sécurité
Journaux
Gérer des services
Services OGC
Liens réseau KML
Dossiers
Services
Site (racine)
eds
europe
evolene
france
geneve
isdd
suisse
swissed
System
Utilities
world
eu_carte_correspondance
eu_carte_correspondance_v3
ge_carte_fortification

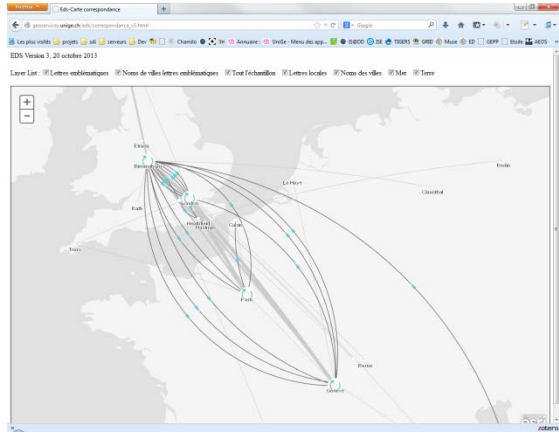

ArcGIS JavaScript API: suisse/st_orthos_sl_alldate


Guichet cartographique Evolène 2013


Swiss Environmental Domains


GeoServer
Layer Preview
List of all layers configured in GeoServer and provides previews in various formats for each.
Rechercher
Type
Name
Title
View
g2014_g:xx0707feet
g2014_a:str_25_l_Clip
g2014_a:Zone3min
g2014_a:resultatbatzonrabattement
g2014_a:STATPOPClip
g2014_a:gare
g2014_a:Zone1min
g2014_freq1010pey5kx
g2014_freq_intensity


Philippines
Indonesia



UNEP Live

http://www.uneplive.org

The need:

UNEPLive aims to support the growing demand for substantiated, contextualised knowledge about the environment, UNEP has developed richer sets of data and knowledge flows and communities of networks.

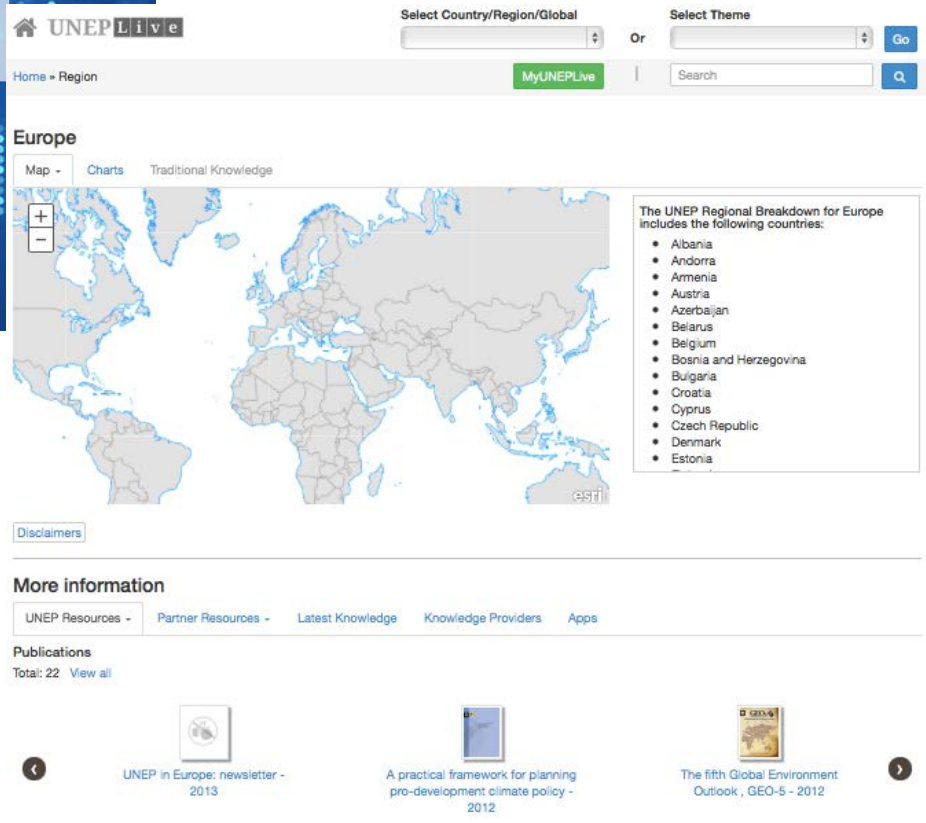
The aim:

UNEPLive[1] is a web-based platform to:

- facilitate the exchange and sharing of up-to-date data, information, assessments and knowledge amongst member countries, research networks, communities of practice, indigenous peoples and society, in order to keep the environment and emerging issues under review.
- provide open access to national and regional information and global datasets
- provide a range of big-data, visualisation, mapping and publishing tools via local and cloud services
- underpin UNEP's role as UNEA's information and knowledge service provider especially in the delivery of information and evidence to support the SDGs and post 2015 agenda.

UNEP Live


UNEP Live
OUR CHANGING ENVIRONMENT: PLACE BY PLACE
Select Country/Region/Global
Or
Select Theme
Go
Search

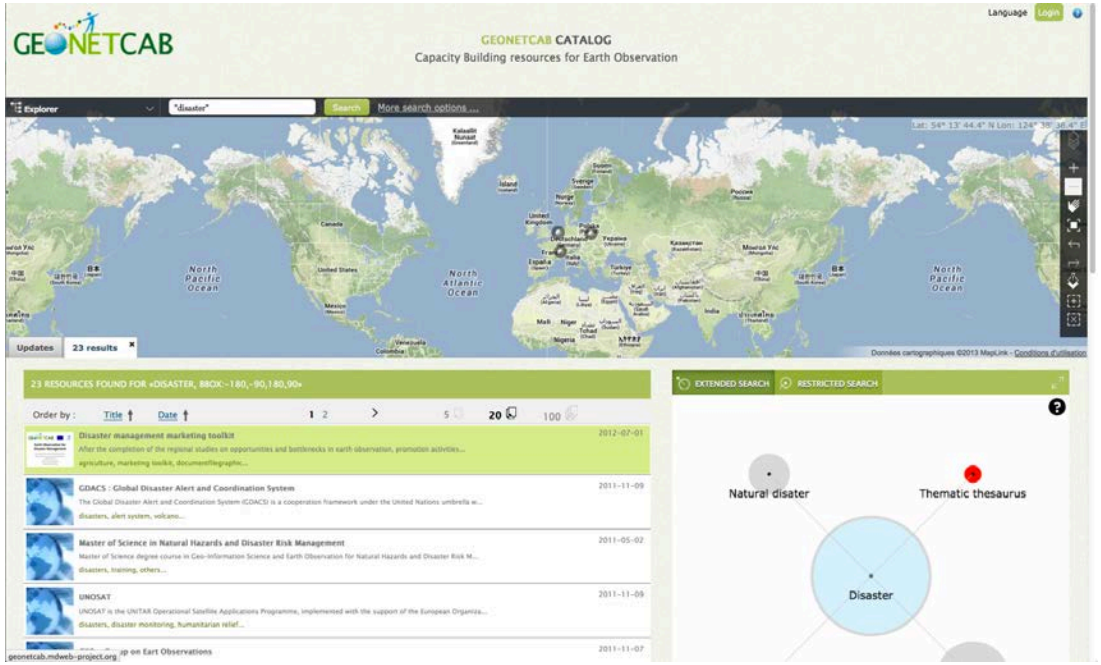

UNEP Live
Select Country/Region/Global
Or
Select Theme
Go
Home » Region
MyUNEPLive
Search
Europe
Map
Charts
Traditional Knowledge
The UNEP Regional Breakdown for Europe includes the following countries:
Albania
Andorra
Armenia
Austria
Azerbaijan
Belarus
Belgium
Bosnia and Herzegovina
Bulgaria
Croatia
Cyprus
Czech Republic
Denmark
Estonia
esri
Disclaimers
More information
UNEP Resources
Partner Resources
Latest Knowledge
Knowledge Providers
Apps
Publications
Total: 22 View all
UNEP in Europe: newsletter - 2013
A practical framework for planning pro-development climate policy - 2012
The fifth Global Environment Outlook , GEO-5 - 2012

Capacity Building in GEO

Since January 2014, UNIGE is task coordinator of ID-02 “Developing Institutional and Individual Capacity”.

Next Capacity Building Event: GEOXI plenary in Gabon – November 2014

GROUP ON EARTH OBSERVATIONS



Bringing GEOSS services into practice

http://www.geossintopractice.org

UNIGE – Coordination de l'information géographique – Description of the workshop

www.unige.ch/sig/enseignements/GeossInPractice.html

UNIGE | UNEP | GRDP | FP7 projects | Arpegeo | ClimVar | OGC | GEOSS | INSPIRE | UNSDI | GIS/SDI | Grid | Home

UNIVERSITÉ DE GENÈVE

Chercher | Accueil | Contact | Plan du site | Portail UNIGE | Annuaire

COORDINATION DE L'INFORMATION GÉOGRAPHIQUE

Université de Genève > Coordination de l'information géographique > Enseignements > GEOSS in practice

- Partenaires
- Enseignements
  - Certificat de géomatique
  - Cours SIG
  - Formation continue
  - GEOSS in practice
    - Description (français)
    - Start with the workshop
    - FAQ
    - Supporting projects and authors
    - Agenda
- Activités
- Outils SIG
- TIGERS
- Données
- Logiciels
- Infrastructure
- Contact

Description of the workshop

The **"Bringing GEOSS services into practice"** workshop aims at teaching how to configure, use and deploy a set of open source software to set up a spatial data infrastructure (SDI). Trainees will learn how to publish and share data and metadata using OGC and ISO standards and how to register services into the Global Earth Observation System of Systems (GEOSS).

The **material** related to the workshop (a **tutorial in PDF**, a **virtual machine in OVA format** and some general documentation on SDIs) can be **downloaded** here. The tutorial is available in iTunesStore and Google Play Books. More precise information on how to start with the workshop is available from here.

The **programme** of the workshop is the following:

- **Concepts** on spatial data infrastructures
- How to **store** geospatial data? (PostGIS and flat rasters)
- How to **publish** geospatial data? (GeoServer, WMS, WFS, WCS, KML, SLD)
- How to **document and search** geospatial data? (GeoNetwork, CSW, ISO metadata)
- How to **process** geospatial data? (Python, WPS, PyWPS)
- How to **view** geospatial data? (WMS, OpenLayers, QGIS, KML)
- How to **download** geospatial data? (WFS, WCS, QGIS)
- How to **analyze** geospatial data? (WPS local/remote)

Practical information

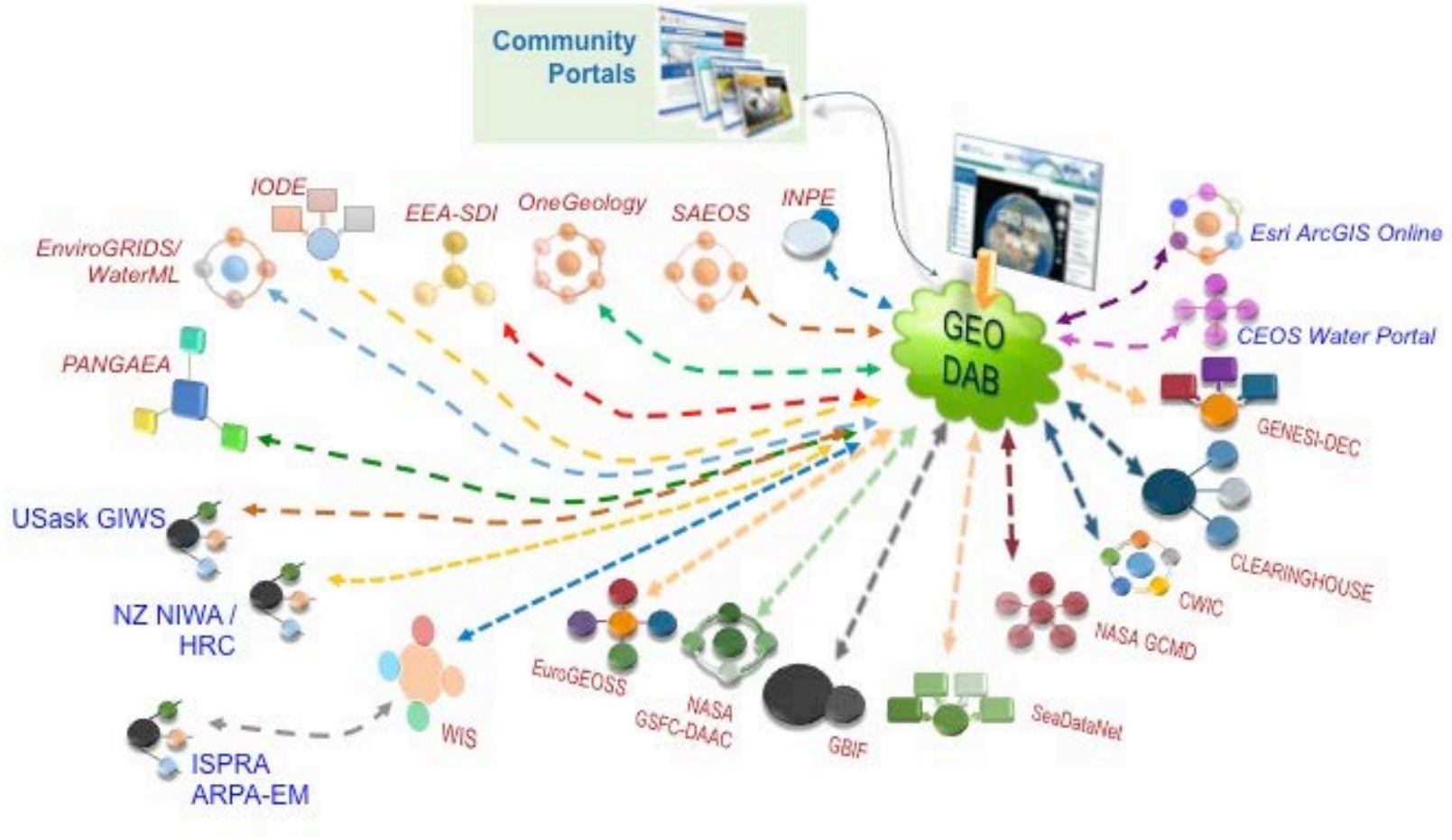
More than 400 people have already been trained on this workshop, in Bulgaria, Georgia, Morocco, the Netherlands, Romania, Serbia, Switzerland and Turkey.

The complete agenda of the workshop can be found here

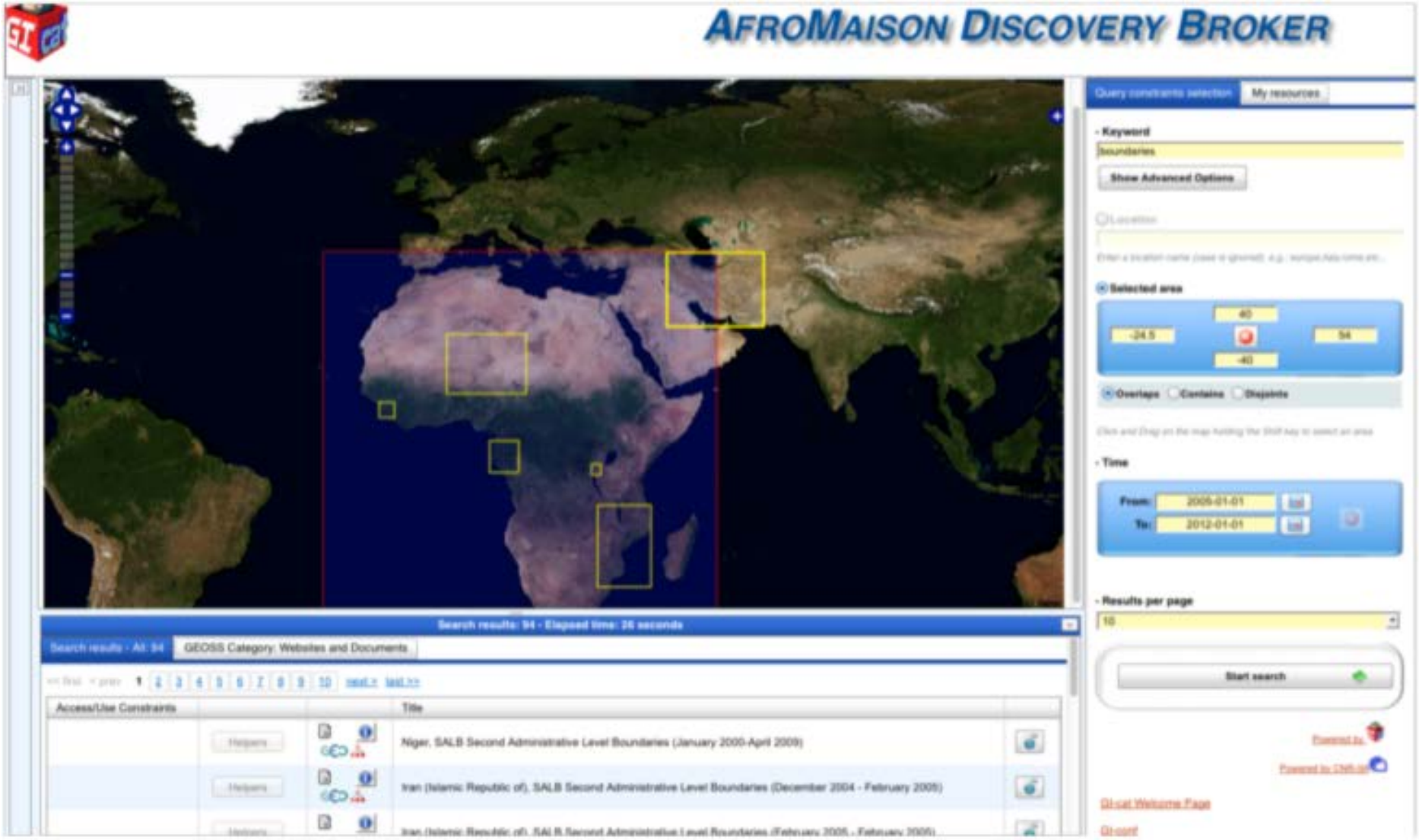
For more information contact:
Grégory Giuliani
Pierre Lacroix

GEO Discovery & Access Broker

Implementation of Brokers for Africa and for UNEP Live



GEO Discovery & Access Broker



GEO Discovery & Access Broker

Exploration of the GEOSS DAB API

http://api.eurogeoss-broker.eu/docs/index.html

The GEOSS Discovery And Access Broker APIs

Authors: Fabrizio Papeschi, Mattia Santoro, Stefano Nativi

JOINT RESEARCH CENTRE

GROUP ON EARTH OBSERVATIONS

API version: 1.1.11-beta

Modules | Classes

Type to filter APIs

- AccessOptions
- Concept
- Core
- Report
- ResultSet
- UI

The **GEO Discovery and Access Broker** (DAB) is a middleware component which is in charge of interconnecting the heterogeneous and distributed capacities contributing to **GEOSS**; it became part of the **GEOSS Common Infrastructure** (GCI) since November 2011. The DAB provides three main functionalities:

1. Discovery of resources from brokered sources
2. Semantics-enriched discovery
3. Access of resources

Since it is a middleware component, DAB users are typically software agents, such as web-based or desktop client applications. These can exploit the DAB functionalities implementing the client-side of one (or more) of the protocols published by the DAB for the above functionalities. The available protocols include:

- OGC Catalog Service for the Web (CSW)
- OpenSearch with geo, time and semantic extensions
- Open Archive Initiative (OAI) PMH
- OGC Web Processing Service
- etc

Metadata generation

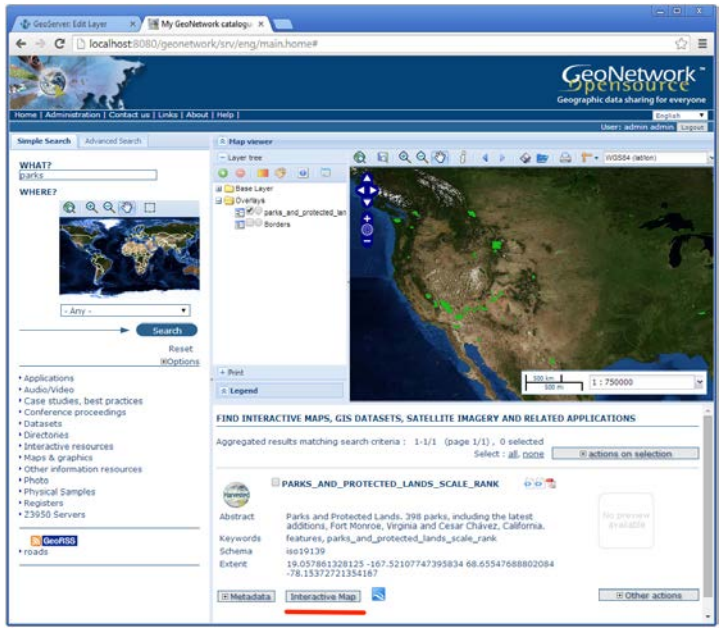
Metadata are essential… but boring to prepare.

Using GeoServer and GeoNetwork CSW interfaces.

Users are only required to insert Title, Abstract, Keywords when publishing data.

Automatic generation of ISO-compliant metadata while harvesting.

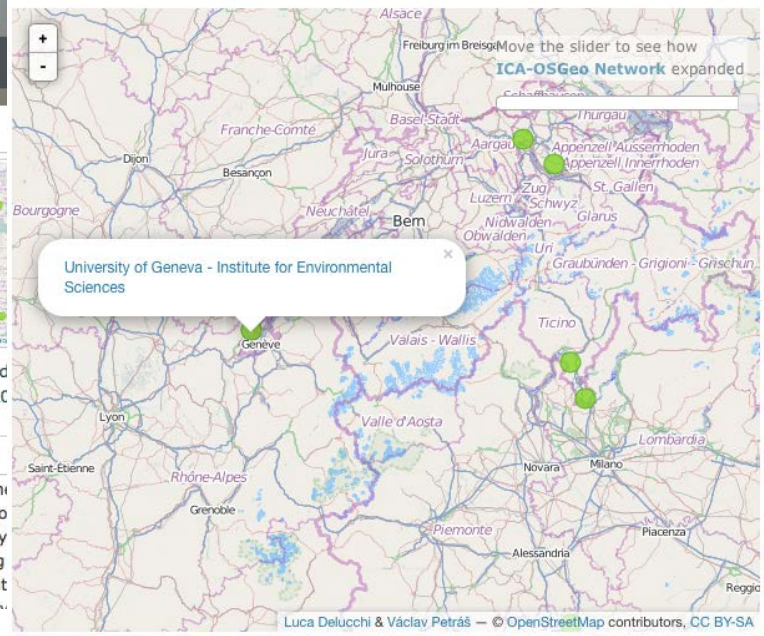
Paper under preparation!



Geo For All

http://www.geoforall.org

Making geospatial education and opportunities accessible to all!



gregory.giuliani@unige.ch
gregory.giuliani@unepgrid.ch
http://www.unige.ch/envirospace/People/giuliani.htm