WORLD BANK GROUP

European Commission

PREŠOVSKÝ SAMOSPRÁVNY KRAJ

ÚRAD PODPREDSEDU VLÁDY SR PRE INVESTÍCIE A INFORMATIZÁCIU

UNIVERSITAS PRESOVIENSIS 1997

Katedra geografie a aplikovanej geoinformatiky Prešov

General presentation

Day 1 Basic Geoportal Users Training

- I Introduction to SDI and geOrchestra
  - History
  - Community
  - Overview (components, architecture)
  - Features overview (tools)
- II How to use viewer (mapfishapp)
  - Overview
  - Load data (from metadata or WMS/WMTS)
  - Manage your contexts
  - Styling
  - Querier
  - Export to sViewer

Day 2 - Advanced Geoportal Users Training

- III Geoserver
  - Push data on the server
  - Publish data
  - Style your data
  - Organise your service (workspaces)
  - Security
  - Optimizations
  - Cache

Day 3 - Advanced Geoportal Users Training

- IV Geonetwork
  - What is a metadata
  - Introduction to INSPIRE and ISO
  - How to search for metadata and data
  - Edition (Create a template, Fill your metadata, Validation)
  - Administration (Settings, Harvesting, Roles)

Day 3 - Geoportal Administrators Training

- V geOrchestra administration
  - Admin console
  - Analytics
  - Group, roles and organisations
  - Rights

Target profiles

- Basic Geoportal Users
  - Basic knowledge of GIS is useful but this training should be accessible to anyone with basic computer skills.
  - Public usage
- Advanced Geoportal Users
  - For advanced users who will have a publisher role on the Geoportal. Preliminary experience with Geoportal, GIS or database management would be useful.
  - Basic Geoportal Users Training is required.
  - Partners who will contribute
- Geoportal Administrator
  - For users who will have an admin role of the Geoportal.
  - Advanced Geoportal Users Training is required.
  - Administrators

geOrchestra

Objectives

- GIS context
- Discover the geOrchestra project and software
- Know the community & the main platforms
- Have an overview of the different modules
- Understand the application architecture

Spatial Data Infrastructure

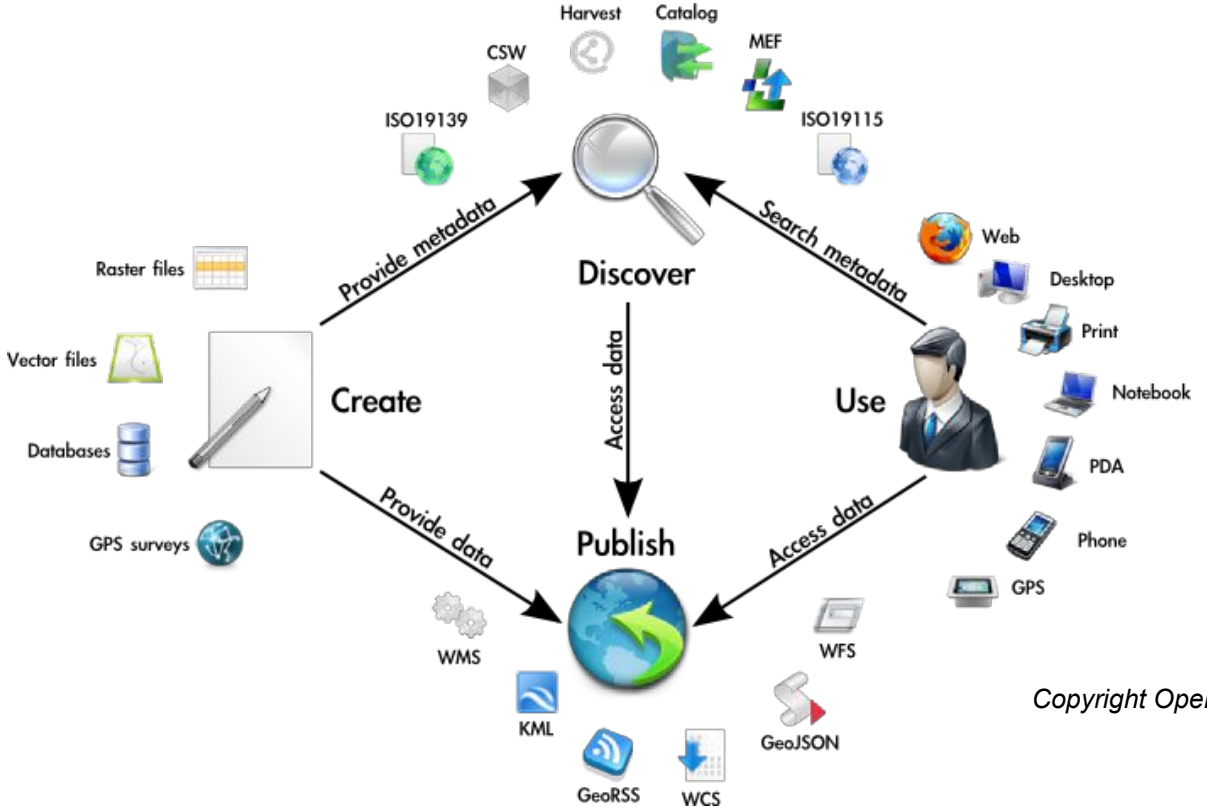
Definition

Wikipedia

*A **spatial data infrastructure** (**SDI**) is a data infrastructure implementing a framework of geographic data, metadata, users and tools that are interactively connected in order to use spatial data in an efficient and flexible way.*

Another definition is "the technology, policies, standards, human resources, and related activities necessary to acquire, process, distribute, use, maintain, and preserve spatial data"

Organization



Copyright OpenGeo

Softwares

- ArcGIS Server
- geOrchestra
- Constellation
- GeoNode
- GeoMapfish
- Boundless Geo Suite
- Mapmint
- Handmade
- ….

Open Source

Open source starts off with a license that provides royalty free (re)use of software. Next, open source guarantees access to the source code for audit and modification and the ability to redistribute the software with no additional costs.

- No licence cost
- Mutualisation
- Community

Open Source & Geospatial

- Community
- Projects
- Support
- Event / Conferences

geOrchestra

geOrchestra

Open Source SDI based on OSGeo components.

Why geOrchestra

- Open Source !
- Spread
- Fits administrative Region scale
- Strong community
- Mostly OSGeo components

Historical

2008 - Public order
2009 - Initial realization
2010 - GeoBretagne
2011 - INRA Rennes, Region Aquitaine
2012 - GeoBolivia, CG62
2013 - GeoPicardie, CIGALsace, CRAIG, ArchiSeine, …
2014 - Rennes-Metropole, Vienna, Puy en Velay, GeoMatagalpa, SIENA, MySwissAlps, INRA Nancy, University of Franche-Comté ...
2015 - ARS, University of Quebec in Rimouski, ...
2016 - PPIGE, 6 European universities, EOST, ...
2017 - GeoRhena, several municipalities in Portugal ...
2018 - GeoGrandEst, Geo2France, Deutsche Telekom, Dreal Corse.

2019 - **Presov :)**

Current situation

Follow
https://www.georchestra.org

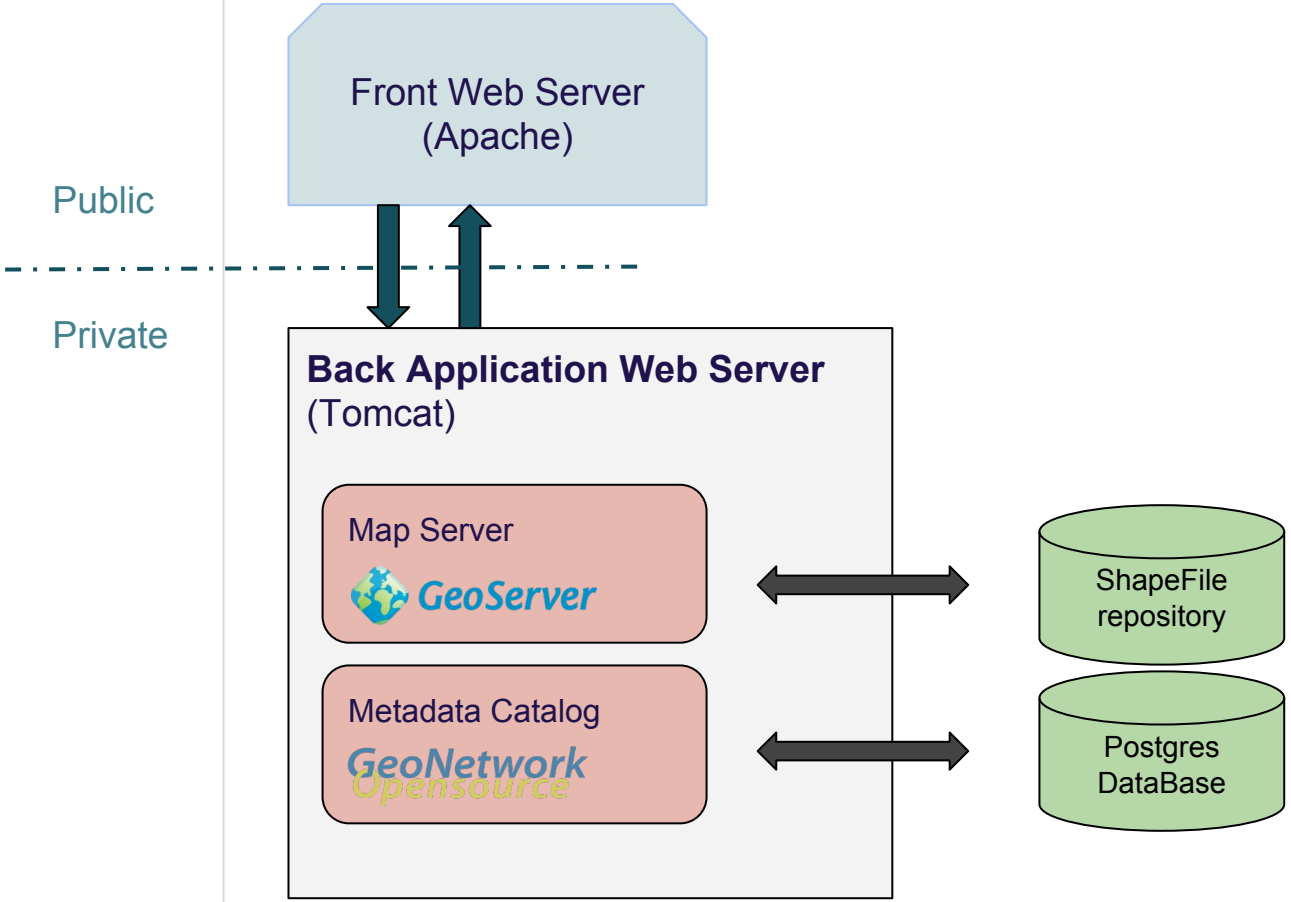
Github
https://github.com/georchestra/georchestra

Nowadays :
version 18.12 being finalized
stable version 18.06
versions 16.12 & 17.12 supported

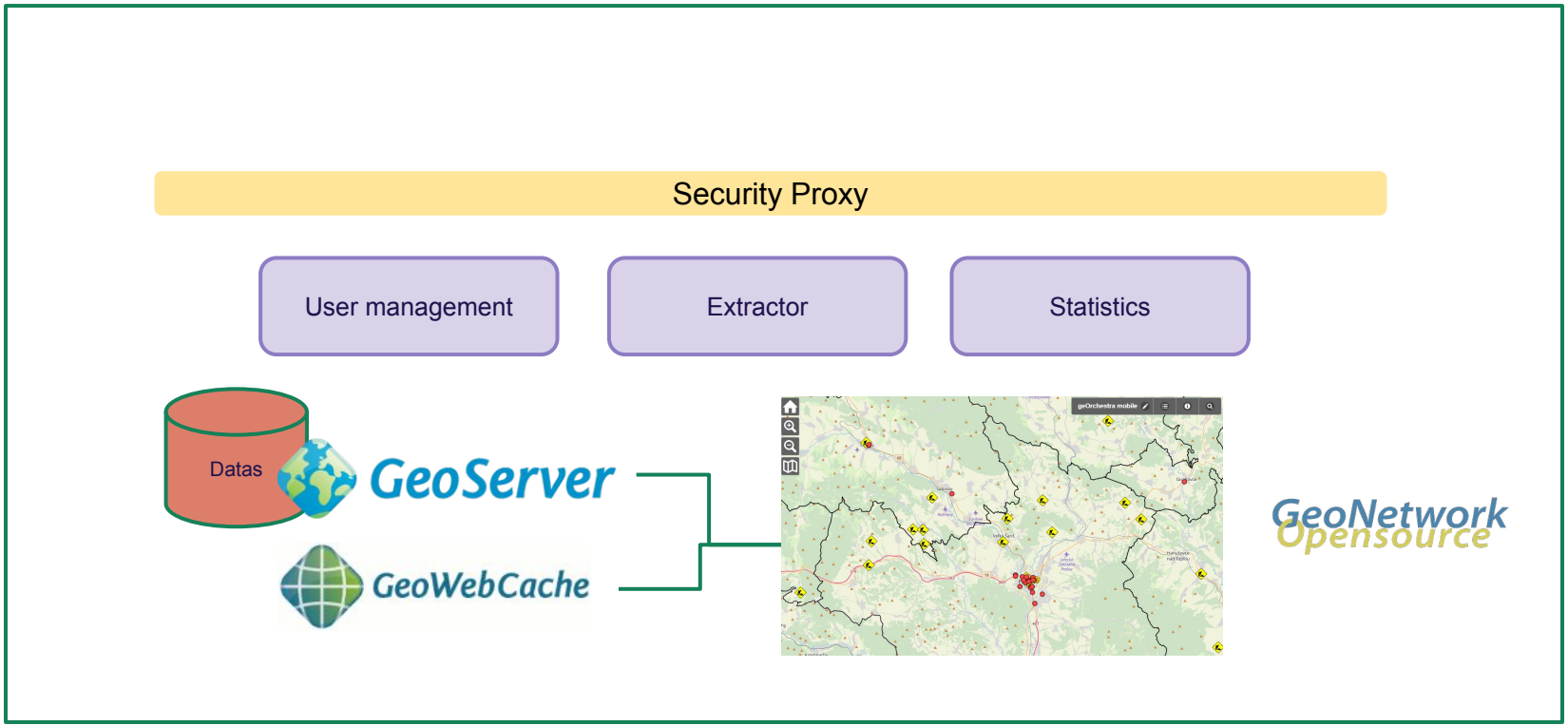
Modules

- geonetwork: metadata catalog
- mapfishapp: map viewer
- extractorapp: data extraction
- geoserver: map server
- cas: single sign-on (SSO)
- security-proxy: connection between SSO and applications
- analytics: flow consumption analysis
- console: managing users, roles, and organizations
- atlas: optional multipage PDF printing module

SDI
architecture



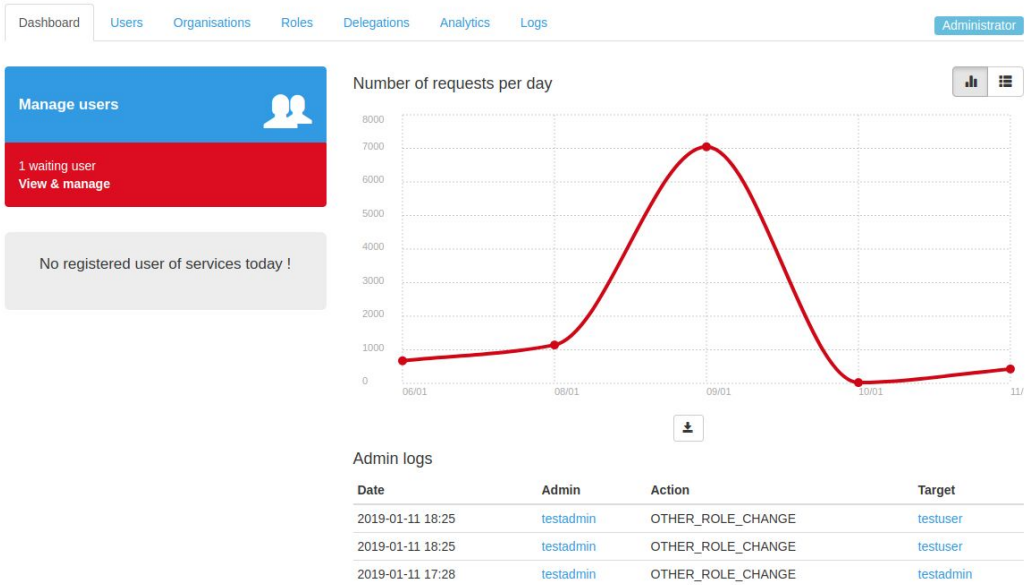
geOrchestra concept



User Administration, Roles, Organizations

Centralized administration tools for the SDI.

Now manage user, groups and rights.

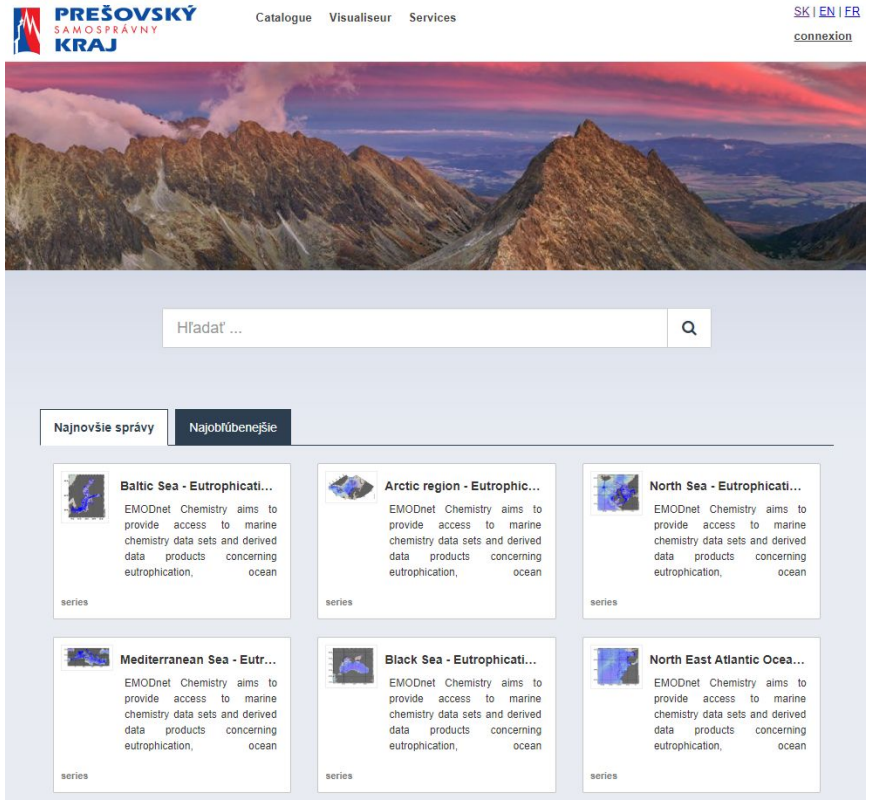


Catalogue - GeoNetwork

Reference all your data through a collaborative tool.

Help people find data

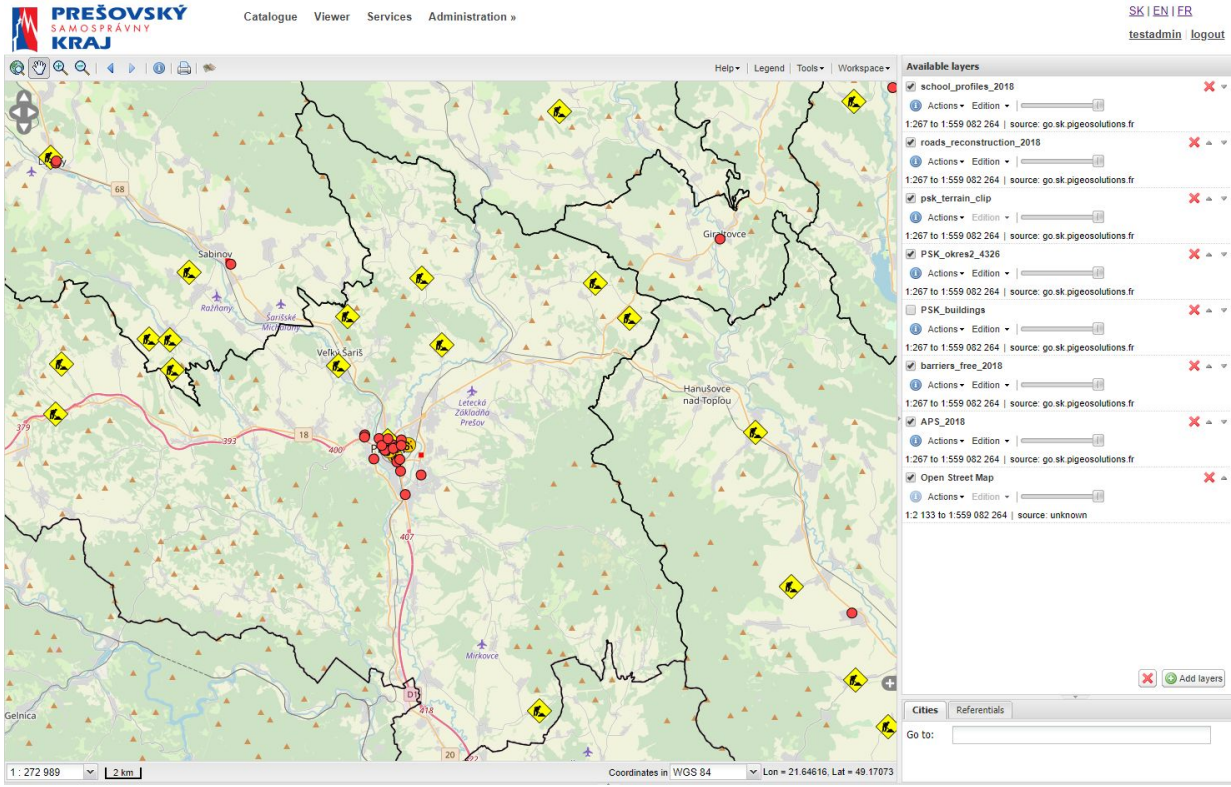
Entry point to access data



Viewer - Mapfishapp

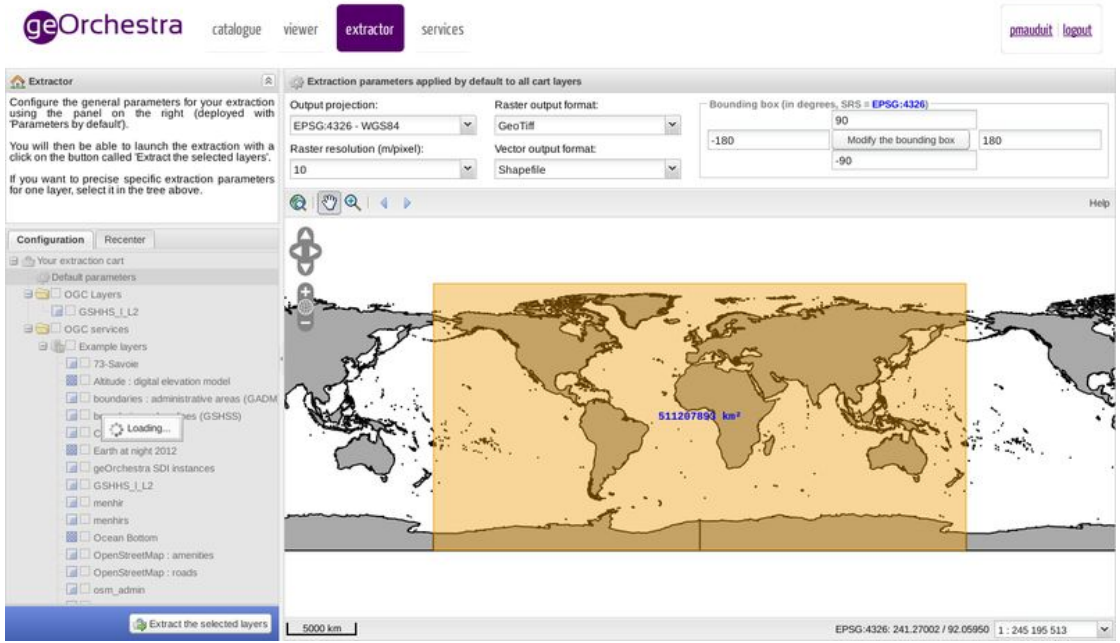
Display spatial data and to provide data query and crossover capabilities.

Allow access to layer metadata, and extract relevant data



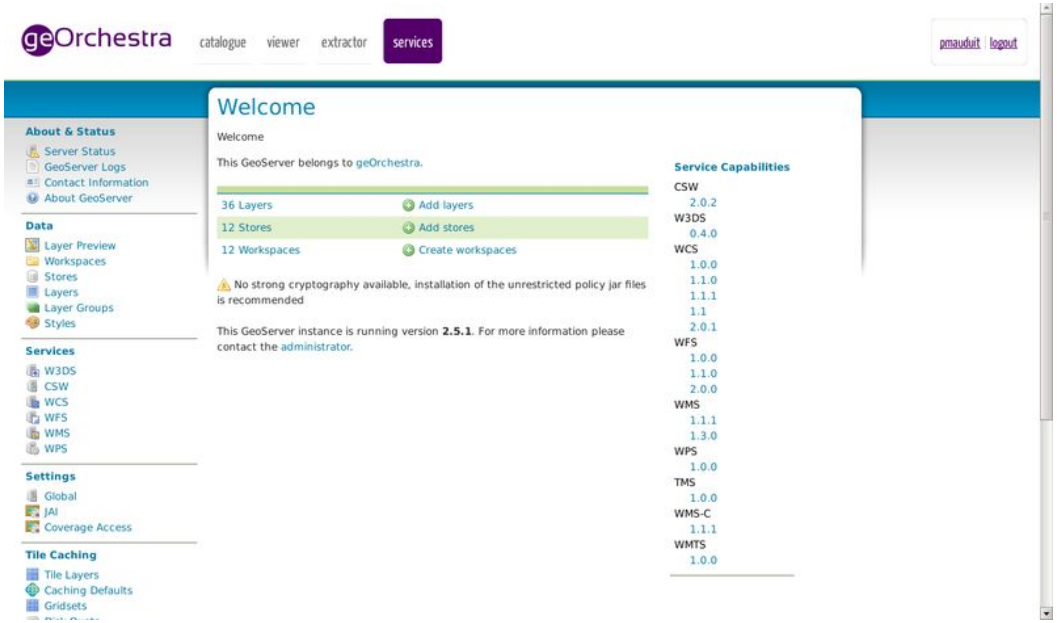
Extracteur - Extractorapp

Extraction of spatial data, via consumption of standard OGC flows.

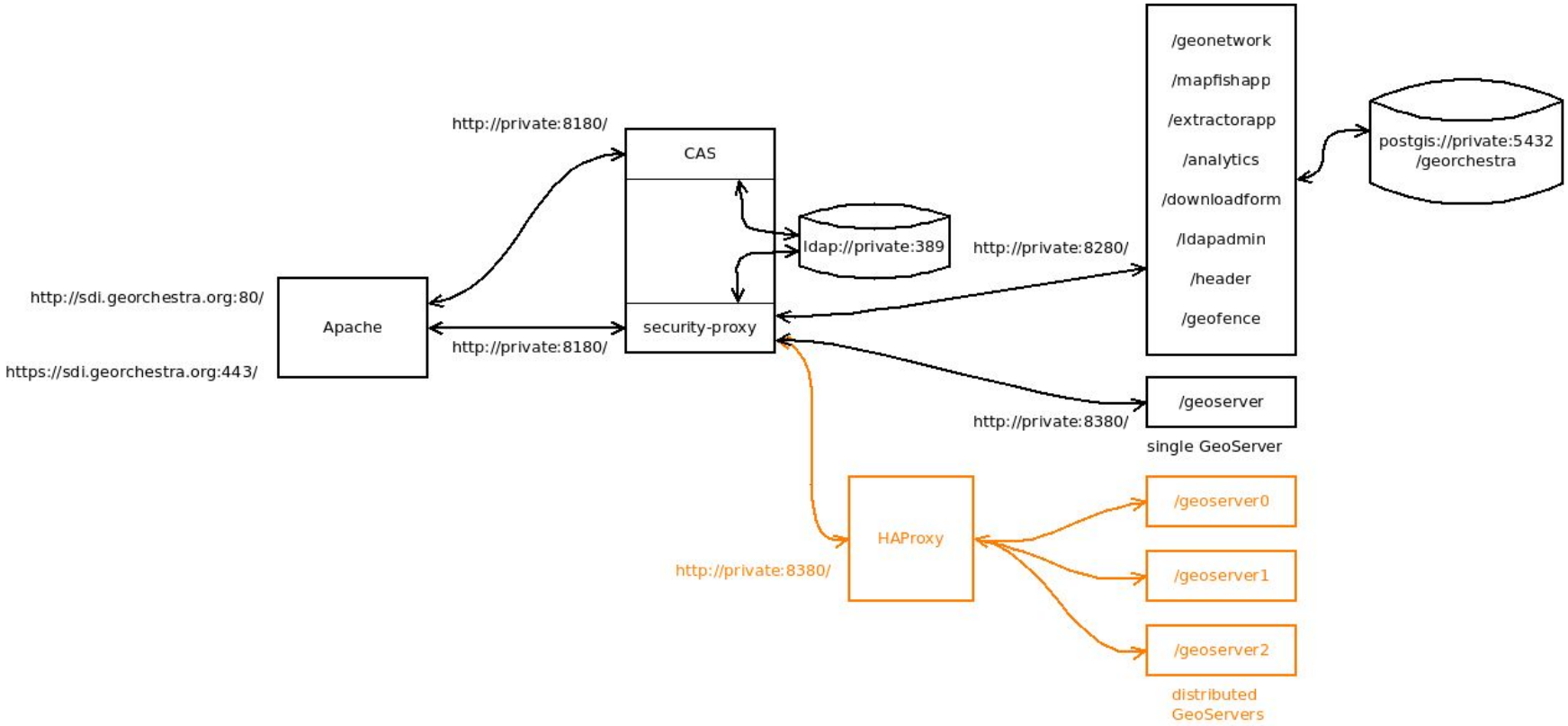


Data server - GeoServer

Distribute vector and raster data in a standardized way (OGC), by erasing the specificities related to their native formats.



Architecture



Roadmap - First Semester 2019

- Platform customisation
  - Configuration
  - Look and feel
  - Translation
- Data collection
- Data Integration
- Infrastructure
  - Backup
  - Monitoring
  - Upload
- Organization

To be continued...
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