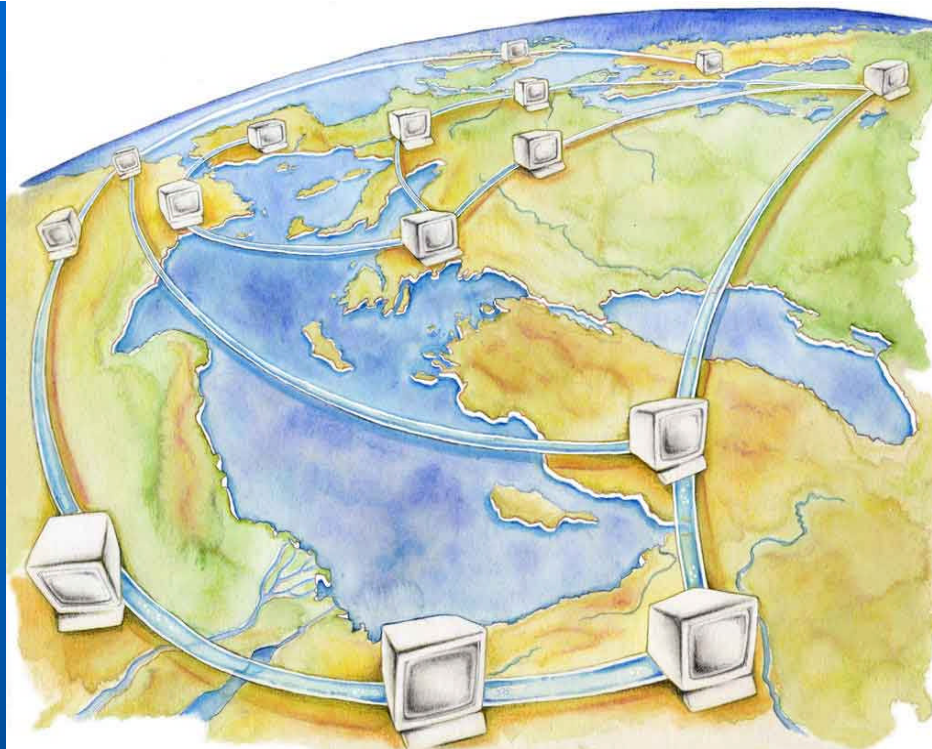


SEMIDE  
EMWIS

SEMIDE

[www.semide.net](http://www.semide.net)

Système Euro-  
Méditerranéen  
d'information sur les  
savoir-faire dans le  
domaine de l'Eau



EMWIS

[www.emwis.net](http://www.emwis.net)

Euro-Mediterranean  
Information System  
on know how in the  
water sector

النظام المعلوماتي الأورومتوسطي  
للمعرفة في مجال المياه

Catalogue de méta-données sur l'eau  
pour rechercher des données et services  
d'information

Eric MINO



DG ENV

EURO-MEDITERRANEAN PARTNERSHIP





# Objectifs

- Déclarer et rechercher les sources de données sur l'eau en Méditerranée
- Visualisation, téléchargement, et accès au données et services (sujet aux droits d'accès définis par le fournisseur)



# Approche

- Fonctionnalités intégrées:
  - Déclaration de jeux de données et de services
  - Service de découverte i.e. recherche
  - Services de visualisation et de téléchargement
- Focus sur:
  - Secteur de l'eau: Listes de valeurs spécifiques (profil de métadonnées)
  - Compatibilité avec les recommandations technique de l'UE (WISE & INSPIRE)
  - interopérabilités pour services web d'information géographique (OGC et ISO)

# Architecture



-  Catalogue
-  WMS service
-  Harvesting
-  Remote users





# Outil logiciel intégré

- Solutions "tout en un" pour la gestion des données géographiques (catalogue, serveur carto, visualisation de cartes, Transformation)
- installation et usage très simples
- Support multi-plateformes
- Libre de droit (logiciels libres et Open Source, documentation et guides)

GeoNetwork  
OpenSource

← GeoServer REST API →  
Pour la configuration

 GeoServer

OpenSearch

OAI

Z39.50

WMS

WFS

WCS



# Discovery & visualization interface

## • Discovery perspective

- Search form
- Search results
- Metadata visualization
- Tag clouds

## • Visualization perspective

- Map navigation
- Layer management
- Legend
- Add layer from registered WMS in the catalogue



# Découverte des données

Mediterranean Water Information Datasource Catalog **Discovery** Visualization   Login

Full text search:

Restrict search to map extent



Options

Search

**Find Interactive Maps, GIS datasets, Satellite Imagery and Related Applications**

**Quick links**

FRANCE Jordan Morocco Tunisia administrative boundary  
environmental data hydrography intake use discharge  
monitoring  
water supply sanitation services






geo.semide.net/geonetwork/apps/search/#

Mediterranean Water Information Datasour **Discovery** Visualization Administration Logout English

Full text search: [input] None selected | Select: all in page, all, none Sort by Change date

Resource type: [input]

Restrict search to map extent




Options [gear icon] [close icon] Search [magnifying glass icon]

**Medstat environmental data sets** (5 stars)  
 Statistical data of the Mediterranean partner countries produced in the framework of the MEDSTAT II programme are freely accessible through the Eurostat's Reference Databases. The focus of this domain is on the following countries: \* Algeria, E ... WATER QUANTITIES, EMISSIONS, MEDITERRANEAN PARTNER COUNTRIES

**Physionomie de la couverture forestière du bassin du Sébou** (4 stars)  
 Couverture forestière du bassin du Sebou ... MAROC

**Springs in palestine** (5 stars)  
 The ISO19115 metadata standard is the preferred metadata standard to use. If unsure

**Metadata (uuid: 83bdd3d9-0305-479b-9e2a-b0b05c432136)**



**IDENTIFICATION INFO**

Title	Physionomie de la couverture forestière du bassin du Sébou
Date type	<b>Publication:</b> Date identifies when the resource was issued
Presentation form	<b>Digital map:</b> Map represented in raster or vector form.
Abstract	Couverture forestière du bassin du Sebou
Status	<b>On going:</b> Data is continually being updated

**Point of contact**






Mediterranean Water Information Datasource Catalog **Discovery** Visualization username \*\*\*\*\* Login English Help

1 selected | Select: all , none

**Carte de situation du bassin du Sébou** ★★★★★

MAROC  
admin  
view



**Groundwater stations (oued) on Sebu river basin** ★★★★★

Localisation des stations et paramètres ...  
MAROC  
admin  
view

**Rainfall stations in the basin of Sebu** ★★★★★

Localisation des stations et paramètres ...  
MAROC  
admin  
view

**Climatological data on the basin of the Sebu** ★★★★★

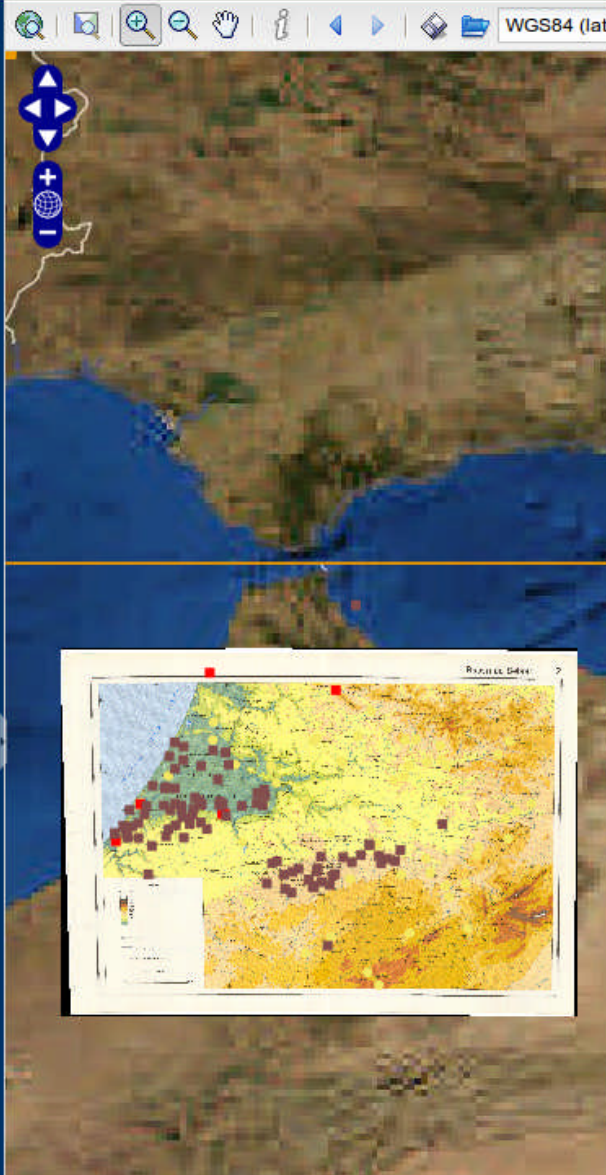
Localisation des stations et paramètres ...  
MAROC  
admin  
view

**Groundwater stations on Sebu river basin** ★★★★★

Localisation des stations et paramètres ...  
MAROC  
admin  
view

**Site web de l'agence du bassin hydraulique du Sebou** ★★★★★

Site web de l'agence du bassin hydraulique du Sebou comportant d'importantes rubriques relatives à la gestion des reesources en eau, la gestion du domaine



WGS84 (lat)

Layer tree

- Base Layer
- Overlays
  - sebou\_qualite\_nap
  - sebou\_climato
  - sebou\_pluvio
  - bassin\_sebou\_wgs
  - Metadata results

Legend

- sebou\_qualite\_nappe
- sebou\_climato
- sebou\_pluvio
- bassin\_sebou\_wgs
- Metadata results
  - default
- Background layer
  - Borders
  - Coastline
  - Other borders



# View perspective

http://geo.semide.net/geonetwork/apps/search/#

10 ans euromed

Most Visited Water Scarcity Private ... HP templates & images Euro-Mediterranean In... Sedna Système Euro-Méditer... http192.70.34.1948081s... EMWISSEMIDE Public ... p0154\_1.pdf (Objet ap...

sommet barcelone 27 - 28 novembr... Jacques Chirac - L'association « Av... Euromediterranean summit of Barc... GeoNetwork - The portal to spati... +

Mediterranean Water Information Datasource Catalogue

Discovery Visualization username ..... Login English Help

None selected | Select: all in page , all , none Sort by Relevance

Springs in palestine ★★★★★  
The ISO19115 metadata standard is the preferred metadata standard to use. If unsure what templates to start with, use this one. ...  
PALESTINE

Satellite Image of Jordan ★★★★★  
This file contains a satellite image of Jordan from the year 2000 and it is available in JTM and palestine coordinates ...  
ADMINISTRATIVE BOUNDARY, JORDAN

WGS84 (lat/lon)

100 mi 1 : 8719495



# Accès services distants

None selected | Select: all in page , all , none

Sort by Relevance

Web Map Service.European Topic Centre on Land Use and Land-Use Change  
European Environment Agency (EEA)

WMS maintained by European Topic Centre on Land Use and Land-Use Change reference datasets at European scale. ...  
WMS, EEA, UAB

http://158.109.55.144/cgi-bin/wms?

Connect

Geoserver

- Web Map Service.European Topic Centre on Land Use and Land-Use Change
  - Erosion
  - Biogeographical Regions
  - EU Mountain Areas
  - Green Urban Areas
  - Urban Morphological Zones
  - Green Background of Europe
  - Dominant Landscape Types
  - Reference Grids
  - Elevation Breakdown
  - Corine Land Cover
  - WISE
    - WISE Main Rivers extracted from ECRINS Database
    - WISE Main Lakes
  - Hydrography
  - WPS results
  - Noise

Preview layer

The preview window shows a map of Europe with blue dots representing the WISE Main Lakes dataset.





# Accès services distants

GeoNetwork - The portal to spatial data and information - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://geo.semide.net/geonetwork/apps/search/#

Most Visited Water Scarcity Private ... HP templates & images Euro-Mediterranean In... Sedna Système Euro-Méditer... http192.70.34.1948081... EMWISSEMIDE Public ... p0154\_1.pdf (Objet ap...

GeoNetwork - The portal to spatial d...

Mediterranean Water Information Datasource Catalogue


Discovery Visualization username ..... Login English Help

None selected | Select: all in page , all , none

Sort by Relevance

Web Map Service.European Topic Centre on Land Use and Spatial Information. European Environment Agency (EEA)

WMS maintained by European Topic Centre on Land Use and Spatial Information. This services includes information about Corine Land Cover at diferent resolutions among other reference datasets at European scale. .... WMS, EEA, UAB



WGS84 (lat/lon)

1000 mi 1 : 69755965

<< | >> | 1-1 result(s) / 1

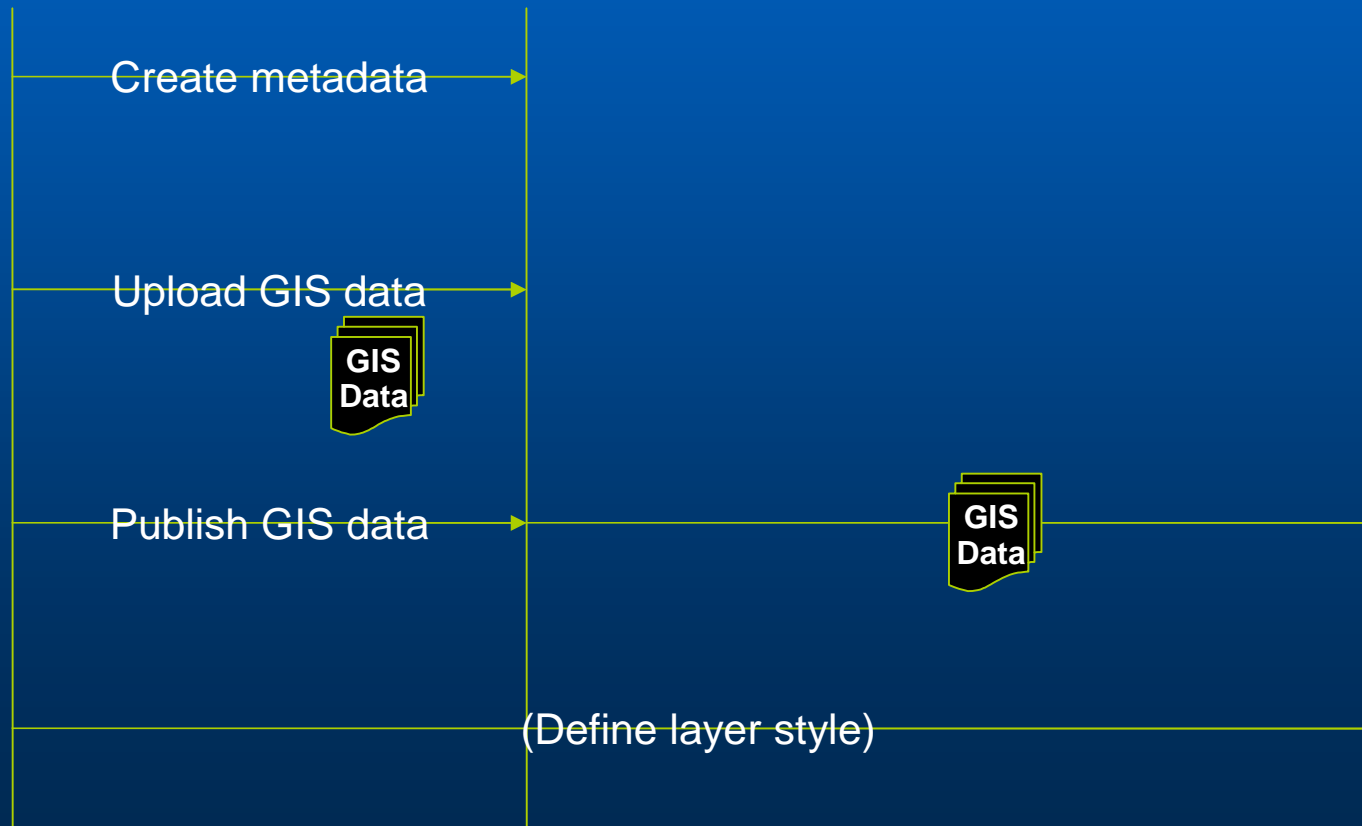
Done

# Publication de metadonnées & données



Discovery Service

View Service



# Creation de metadonnées ... avec un formulaire



geo.semide.net/geonetwork/srv/en/metadata.update

Reset Save Save and close Check Other actions Cancel

No preview available

**Parent/child metadata:**  
Add or update parent metadata section

**Related service metadata:**  
Link service metadata

**Related feature catalogues:**  
Link feature catalogue

**IDENTIFICATION**

Title \* Datasource and dataset registry English

Abstract \*  English

Hierarchy level Scope code (gmd:MD\_ScopeCode)

**Distribution format**

Name \* ## xls, csv, shapefile, report, etc. ## English

Version \* ## version of the format define above. English

Amendment number  
Specification  
File decompression technique  
Format distributor

**OnLine resource**

**OnLine resource**

URL \*

Protocol Web address (URL)

Application profile  
Name of the resource

- Rapport de validation d'erreurs (y compris règles INSPIRE) et mise en évidence pour correction
- Calcul de l'empreinte à partir de mots clés géographiques
- Listes de suggestions et thesaurus (eg. GEMET)
- Relations parent/fils
- ...





# Droits d'accès

GeoNetwork - The portal to spatial ... x GeoNetwork - The portal to spati... x +

Mediterranean Water Information Datasource Catalogue **Discovery** Visualization Administration

Full text search:

Resource type:

Restrict search to map extent

Options

MAROC Maroc Morocco hydrography monitoring

None selected | Select: all in page , all , none Sort by

Site web de l'agence du bassin hydraulique du Sebou comportant d'importantes ruonques relatives a la ge reesources en eau, la gestion du domaine public hydraulique et un volet cartographique. ...  
HYDROGRAPHY, MONITORING, MOROCCO

Groundwater stations (oued) on Sebu river basin  
Localisation des stations et paramètres ...  
MAROC

Rainfall sta...  
Localisation de...  
MAROC

Climatolog...  
Localisation de...  
MAROC

Groundwater stations on Sebu river basin  
Localisation des stations et paramètres ...  
MAROC

Pluviométrie de la couverture forestière du bassin du Sebou

Edit

Delete

Other actions

- Duplicate
- Create child
- Privileges
- Categories

View

Zoom to

Save as XML

★ ★ ★ ★ ★



# Privilèges

- Limiter l'accès aux metadonnées
- Restreindre l'accès aux données


GeoNetwork - The portal to spatial ...

Mediterranean Water Information Datas

Full text search: sebou

Resource type:

Restrict search to map extent



Options

Search

### Set privileges

Groups	Publish	Download	Interactive Map	Featured	Editing	Notify		
All	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			Set All	Clear All
Intranet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Set All	Clear All
Guest	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Set All	Clear All
<All (Internet)>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Set All	Clear All
Sample group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Set All	Clear All

Submit



# Merci


Browser address bar: <http://geo.semide.net/geonetwork/apps/search/>

Navigation: **Discovery** Visualization Administration Logout

Language: English Help

Search: Full text search:  Resource type:

Restrict search to map extent



Options:    Search

Frontière administrative **Jordan** User polluter

administrative boundary environmental data groundwater hydrography intake use discharge monitoring water supply sanitation services

None selected | Select: all in page, all, none Sort by: Relevance

- WELLS SHAPEFILE**  
This shapefile contains the wells in Jordan. It is a point shapefile available in JTM coordinates ...  
USER POLLUTER, MONITORING, GROUNDWATER, JORDAN
- IRRIGATION CENTERS SHAPEFILE**  
This shapefile contains the center points of irrigation areas in Jordan. it is a point shapefile and available in JTM coordinates....  
USER POLLUTER, JORDAN
- SPRINGS SHAPEFILES**  
This shapefile contains the springs locations in Jordan. It is a point shapefile and available in JTM coordinates. ....  
HYDROGRAPHY, JORDAN

<http://geo.semide.net/geonetwork>