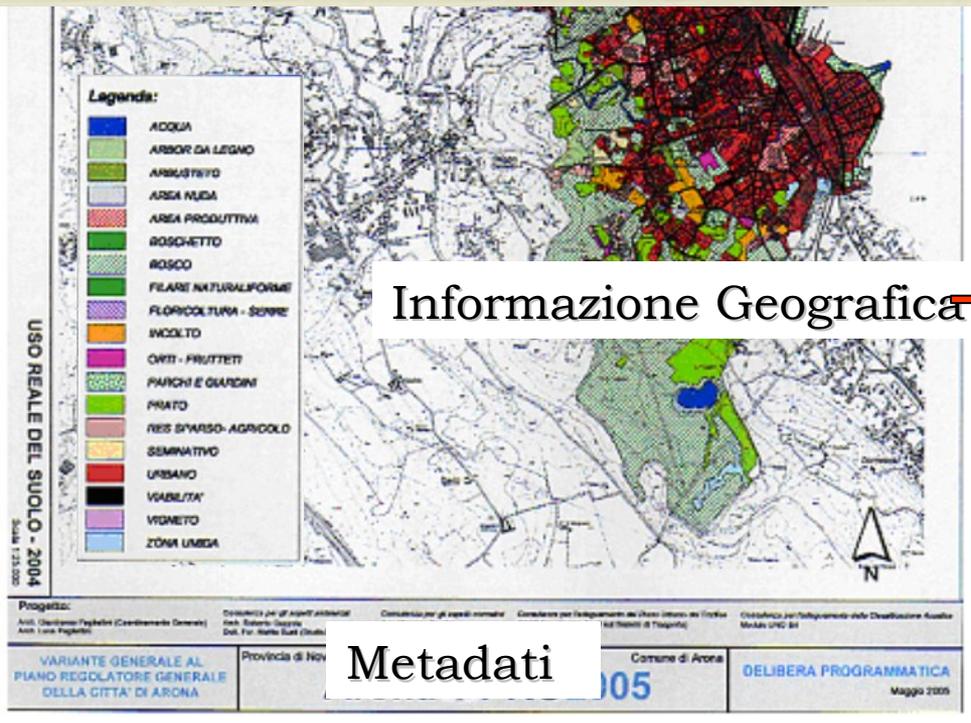


**Lo Stato dell'Arte: soluzioni
tecnologiche adottate e possibili**

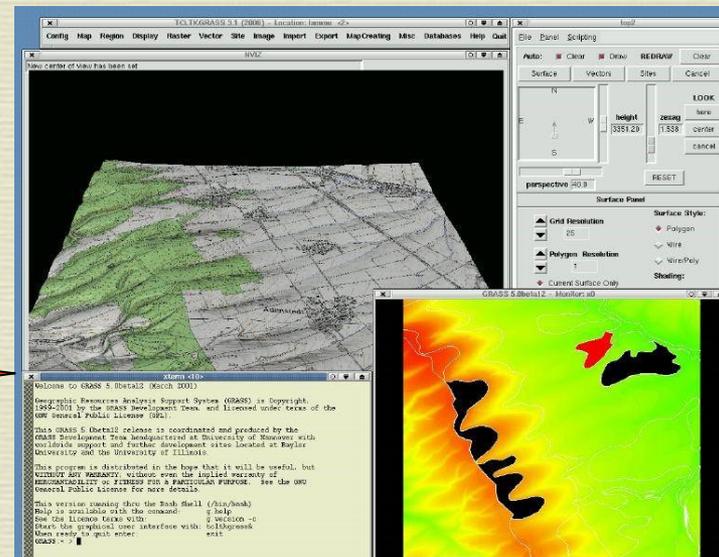
Pasquale Di Donato

Dalla carta ai bit



Informazione Geografica

Metadati



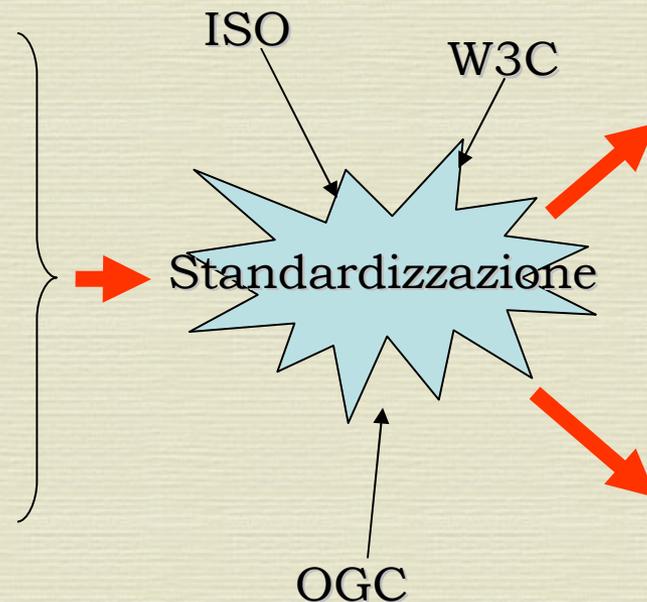
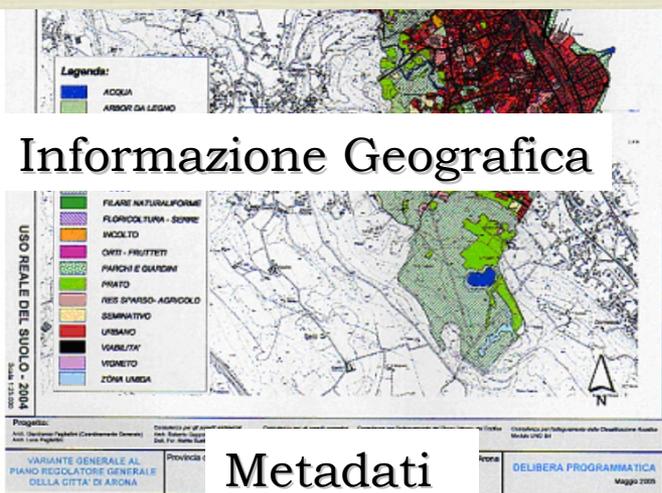
Metadata - Mozilla Firefox

Click on a layer to browse its metadata. Use the tabs to browse metadata categories.

Legend
[hydro](#)
[highways](#)
[protectedareas](#)
[Gazetteer Results](#)
[Annotations](#)
[WORLD](#)

Metadata on Hydrography			
General Information	Distributor	Publisher	E
General information on Hydrography			
Metadata name	Hydrography		
Data description - abstract	MassGIS has edited and modified Hydrography Digital Line Graph (D USGS 1:100,000 Hydrography DL hydrographic features from the US Quadrangles to produce a hybrid 1 Hydrography Datalayer. The 1:100 enhanced by digitizing those strea quadrangles that were not part of t has also scanned USGS mylar sep: 1:100,000 enhanced data with 1.2		
Data description - purpose			
Keywords	USGS Hydrography		
Use constraints			
Classification	inlandWaters,		
Originator			
Production date (YYYY-MM-DD)			
Organisation name			
Country			

Dalla carta ai bit



Metadata howto

1. Scelta di uno standard di metadati
 - ISO 19115
 - Dublin Core
 -
2. Input e memorizzazione delle informazioni
 - Database
 - Files
 -
3. Interfacce di amministrazione
4. Funzionalità di ricerca per i “clients”
5. Funzionalità di interscambio

Metadata howto: memorizzare le informazioni

- Alcune modalità attuali:
 - Scrivere metadati in formato XML e memorizzarli in database XML nativi (es. Xindice, pronunciato *zeen-dee-chay in your best faux italian accent*)
 - Scrivere metadati in formato XML e memorizzarli in database relazionali
 - Scrivere metadati in formato XML e memorizzarli come semplici file (XML)
 - Scrivere metadati direttamente in un database relazionale (con possibilità di importare/esportare XML grazie ad opportuni scripts di trasformazione)

Metadata howto: tools di input e gestione

M3Cat - Mozilla Firefox

File Modifica Visualizza Vai Segnalibri Strumenti ?

http://polluce/M3Cat/metd_main.asp

FreeGIS_Italy

M³Cat

Metadata

- General information
- Identification information

ctr Help Cancel

Legend : Mandatory Important Optional

Identification information + -

Citation

Title :

Date + -

Date :

Date type :

Abstract :

+ - Language :

+ - Topic category :

Geographic box + -

West bounding longitude :

East bounding longitude :

South bounding latitude :

North bounding longitude :

Geographic description + -

Submit Reset

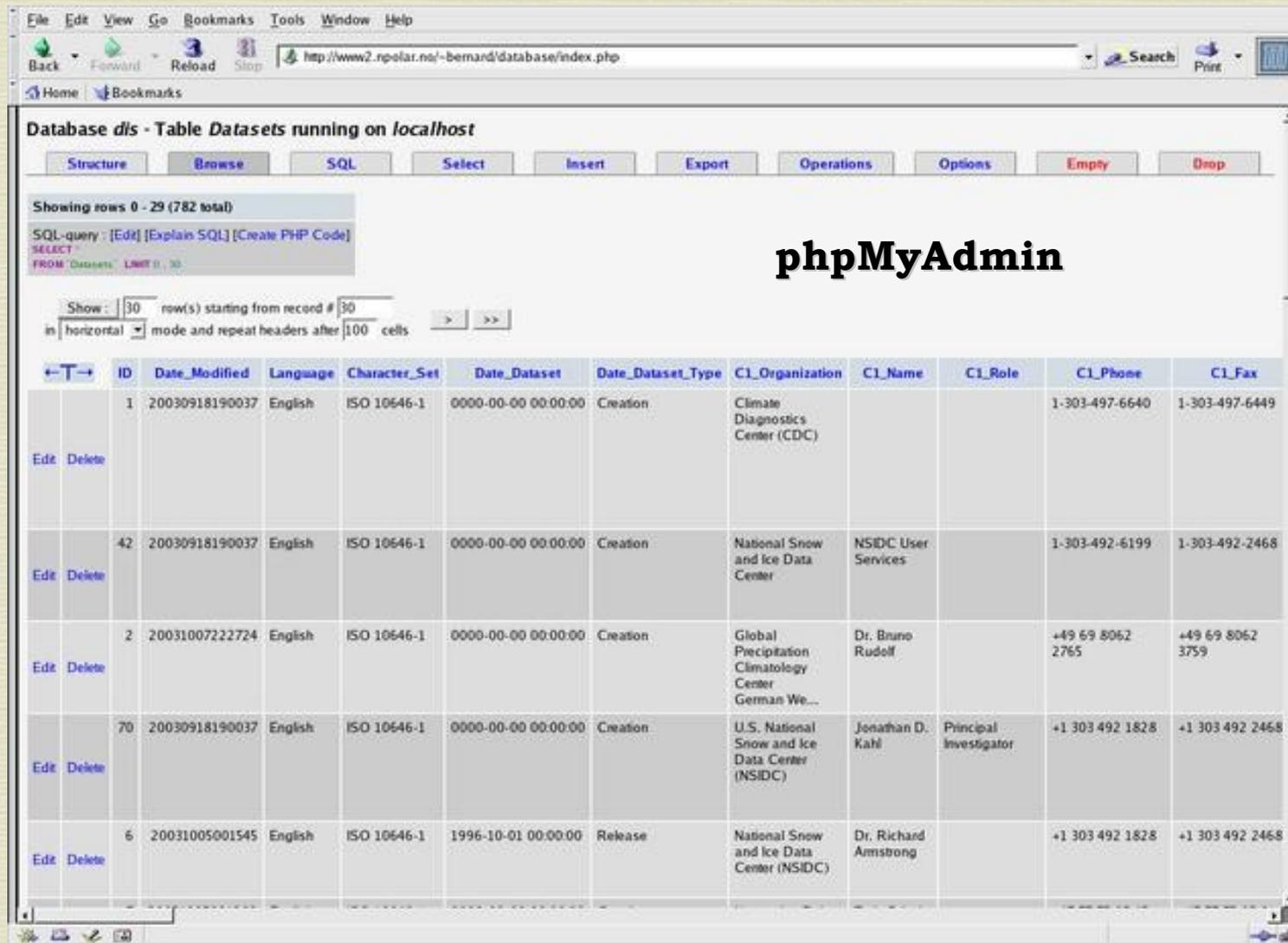
Metadata howto: tools di input e gestione

Title	text	<input type="text"/>	Antarctic Sea Ice Thickness Project (ANSITP)
Description	longtext	<input type="text"/>	The Antarctic Sea Ice Thickness Project started in 1990. Since the start of the project, 53 moorings with upward-looking sonars (ULS) were deployed - 40 by the Alfred Wegener Institute for Polar and Marine Research (AWI, Bremerhaven, Germany) in the Weddell Sea, 8 by the Antarctic Cooperative Research Centre (ACRC, Hobart, Australia) off East-Antarctica, 2
Category	tinytext	<input type="text"/>	Cryosphere, Sea Ice
Keyword	mediumtext	<input type="text"/>	Water temperature Water pressure Moored Upward Looking Sonar Upward Looking Sonar Sea ice draft Under-ice surface Moored Buoys

Metadata howto: interfacce di amministrazione



Metadata howto: interfacce di amministrazione



The screenshot shows the phpMyAdmin web interface. The browser address bar displays `http://www2.rpolar.no/~berard/database/index.php`. The page title is "Database *dis* - Table *Datasets* running on localhost". The interface includes navigation buttons for Structure, Browse, SQL, Select, Insert, Export, Operations, Options, Empty, and Drop. A SQL query editor shows the following query:

```
SELECT
FROM 'Datasets' LIMIT 0, 30
```

Below the query editor, there are controls for showing 30 rows starting from record # 30 in horizontal mode and repeating headers after 100 cells. The main content is a table with the following data:

ID	Date_Modified	Language	Character_Set	Date_Dataset	Date_Dataset_Type	CI_Organization	CI_Name	CI_Role	CI_Phone	CI_Fax
1	20030918190037	English	ISO 10646-1	0000-00-00 00:00:00	Creation	Climate Diagnostics Center (CDC)			1-303-497-6640	1-303-497-6449
42	20030918190037	English	ISO 10646-1	0000-00-00 00:00:00	Creation	National Snow and Ice Data Center	NSIDC User Services		1-303-492-6199	1-303-492-2468
2	20031007222724	English	ISO 10646-1	0000-00-00 00:00:00	Creation	Global Precipitation Climatology Center German We...	Dr. Bruno Rudolf		+49 69 8062 2765	+49 69 8062 3759
70	20030918190037	English	ISO 10646-1	0000-00-00 00:00:00	Creation	U.S. National Snow and Ice Data Center (NSIDC)	Jonathan D. Kahl	Principal Investigator	+1 303 492 1828	+1 303 492 2468
6	20031005001545	English	ISO 10646-1	1996-10-01 00:00:00	Release	National Snow and Ice Data Center (NSIDC)	Dr. Richard Armstrong		+1 303 492 1828	+1 303 492 2468

Metadata howto: interfacce di ricerca

Select a Topic of Interest - Microsoft Internet Explorer

File Modifica Visualizza Preferiti Strumenti ?

Indietro Avanti Termina Aggiorna Pagina iniziale Cerca Preferiti Cronologia Posta Stampa Modifica

Indirizzo <http://130.11.52.184/servlet/FGDCWizard>

Clearinghouse Search Wizard

Select a Topic of Interest [Help...](#)

Select all topics or choose up to four topics of interest from the categories listed. This will help select appropriate Clearinghouse Servers to query.

Find servers that have data on: All topics Any one of up to four topics All of up to four topics

- Administrative and Political Boundaries
- Agriculture and Farming
- Atmospheric and Climatic Data
- Base Maps, Scanned Maps, and Charts
- Biologic and Ecologic Information
- Business and Economic Information
- Cadastral and Legal Land Descriptions
- Earth Surface Characteristics & Land Cover
- Elevation and Derived Products
- Environmental Monitoring and Modeling
- Facilities, Buildings and Structures
- Geodetic Networks and Control Points
- Geologic and Geophysical Information
- Human Health and Disease
- Imagery and Aerial Photographs
- Inland Water Resources and Characteristics
- Ocean and Estuarine Resources and Characteristics
- Society, Cultural and Demographic Information
- Tourism and Recreation
- Transportation Networks and Models
- Utility Distribution Networks

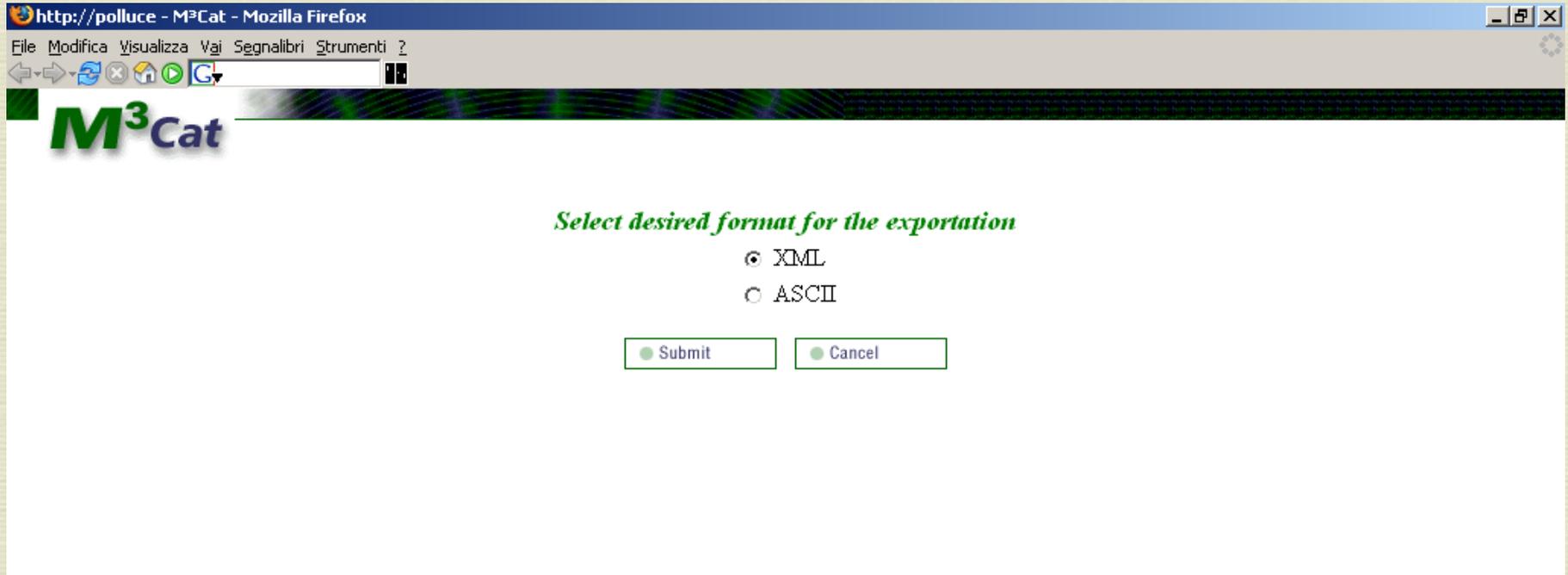
Find All Data
 Only Find Data With Interactive Web Mapping Services (OGC)

[Reset](#) [Next >>](#)

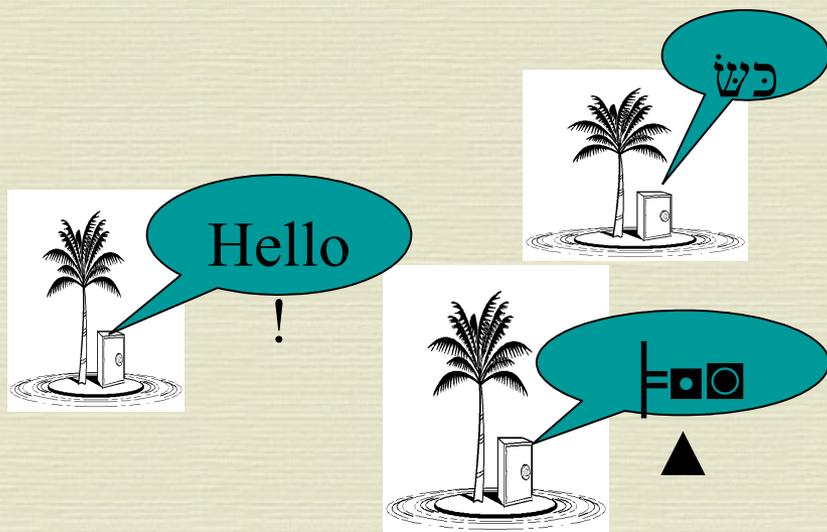
<http://130.11.52.184/servlet/FGDCWizard>

Operazione completata Internet

Metadata howto: interscambio

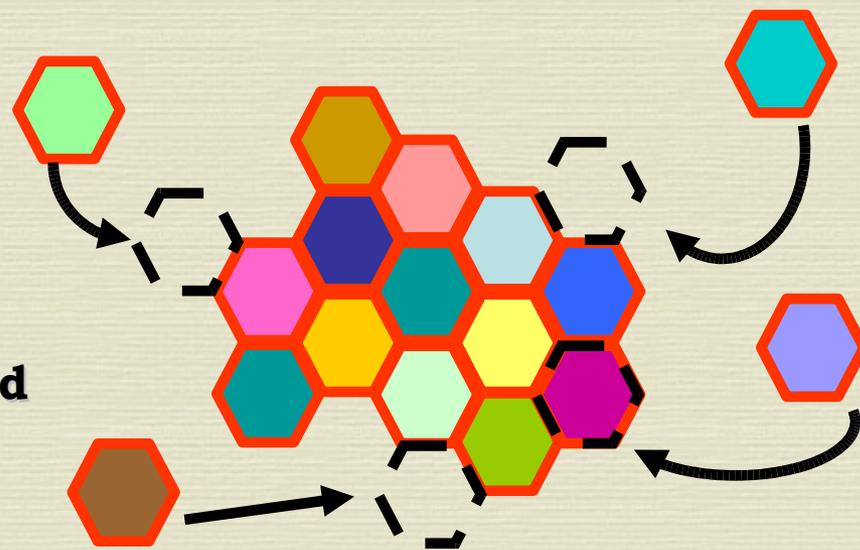


Metadati: standardizzazione dei sistemi



Da sistemi “incompatibili”

A sistemi interoperabili grazie a
interfacce di comunicazione standard

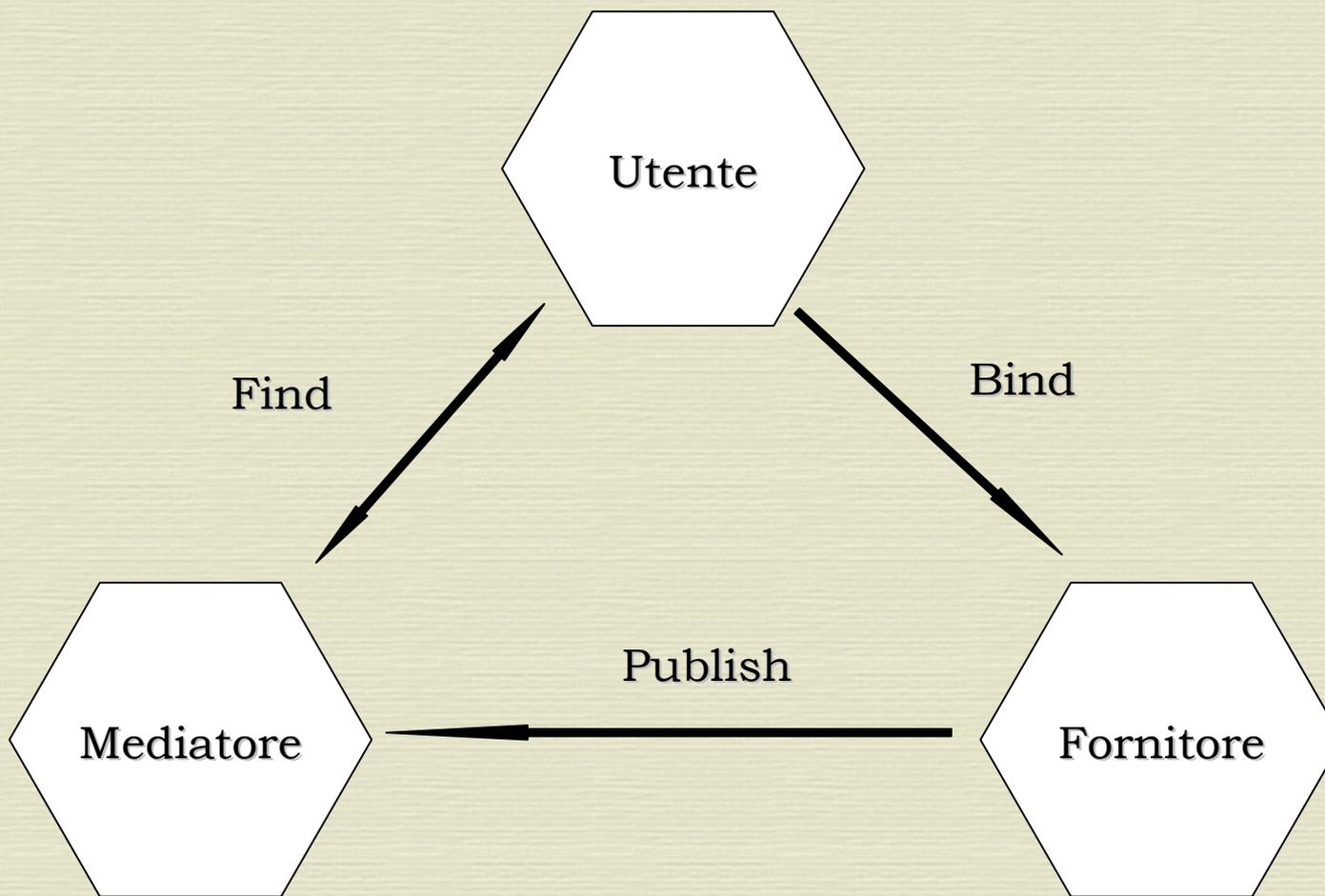


I servizi di catalogo

“We use the term Catalog to describe a set of service interfaces which support organization, discovery, and access of geospatial information. Catalog services help users or application software to find information ... in a distributed computing environment”

da: The OpenGIS Abstract Specification – Topic 13: Catalog Services

Publish-Find-Bind



Publish-Find-Bind: le tecnologie

- SOAP (protocollo messaggi di requests e responses);
- UDDI (protocollo di ricerca di Web Services)
- WSDL (linguaggio per la descrizione di Web Services)
- ebXML

Xml, xml ed ancora xml

Publish

File Edit View Favorites Tools Help

Back Search Favorites Media Google Search W Links

Address http://tnt.esri.com:9081/wps/myportal/!ut/p/.cmd/cs/.ce/7_0_A/s/7_0_M1/s_7_0_A/7_0_M1

My Portal Administration Edit my profile Log out ?

Welcome John!

Marketplace Publishing Tools Channel Tools Administration

My Favorites

Manage My Metadata

Create Metadata

Upload Metadata

Configure Harvesting

Harvesting Reports

Manage My Metadata

Dataset name

Metadata owner Folder

Dataset uuid Status Posted

Updated date between: 11-24-2004 and 12-08-2004 (mm-dd-yyyy) Go

ected records: Set as Incomplete OK Transfer

Action	DOCUOID	Dataset Name	Owner	Folder	Update
<input type="checkbox"/> Del/View	{0140824a-1dd2-11b2-ad9e-c04bf54cbc66}	Bailey's ecoregions of the world	geodata	geodata	10-07-2004
<input type="checkbox"/> Del/View	{00caa402-1dd2-11b2-ad9e-c04bf54cbc66}	Demographic and Economic Mapping System	geodata	geodata	10-07-2004
<input type="checkbox"/> Del/View	{00caa90c-1dd2-11b2-ad9e-c04bf54cbc66}	Digital Boundary Files and Layers	geodata	geodata	10-07-2004
<input type="checkbox"/> Del/View	{00caa6d2-1dd2-11b2-ad9e-c04bf54cbc66}	Industrial Clusters	geodata	geodata	10-07-2004

Feedback | Disclaimer | Privacy | FirstGov.gov | eGov.gov

Internet

Z39.50
WAF (web accessible folder)
OAI (open archive initiative)

Find

geodata.gov Home | Search | About This Site | The geodata.gov Marketplace | Information Center | Map Viewer

Search

Where? Help	What? Help	When? Help
<input checked="" type="radio"/> Anywhere Or <input type="button" value="FIND A PLACE..."/> Or locate your area here   <input type="checkbox"/> Data must fall completely inside area	Keywords: <input type="text"/> Match: <input checked="" type="radio"/> Exact phrase <input type="radio"/> Any word <input type="radio"/> All words Data Category: <input type="text" value="Any"/> Scale/Coverage: <input type="text" value="Any"/> Type/Format: <input type="text" value="Any"/>	<input checked="" type="radio"/> Anytime <input type="radio"/> Data for time period (yyyymmdd) From: <input type="text"/> To: <input type="text"/> <input type="radio"/> Data updated recently (yyyymmdd) After: <input type="text"/>
Sort results by: <input type="text" value="Content type/format"/> <input type="button" value="SEARCH"/> >		
<input type="button" value="RESET"/> <input type="button" value="LOAD A SAVED SEARCH..."/> <input type="button" value="SAVE SEARCH..."/>		
Home Search About This Site The geodata.gov Marketplace Information Center Map Viewer		

Find

Australian Spatial Data Directory (ASDD) home page - Microsoft Internet Explorer

File Modifica Visualizza Preferiti Strumenti ?

Indietro Avanti Termina Aggiorna Pagina iniziale Cerca Preferiti Cronologia Posta Stampa Modifica

Indirizzo <http://asdd.ga.gov.au/asdd/> Vai

ASDI
Australian Spatial Data Infrastructure

Australian Spatial Data Directory (ASDD)
[home](#) | [about](#) | [tech](#) | [basic search](#) | [power search](#) | [status](#) | [quarterly reports](#) | [feedback](#) | [help](#)

The Australian Spatial Data Directory (ASDD) provides these search interfaces to discover geospatial dataset descriptions (metadata) throughout Australia. A dataset description is a concise document which consistently explains a certain set of geospatial (earth-related) data, and provides links to further information and to the actual data.

Search the ASDD

- [Basic search interface](#) - Text search using words and phrases in the specific metadata elements or in the full document.
- [Power search interface](#) - Also enables spatial search and date search.
- [Help](#) with searching the ASDD - There are also brief help notes available directly from the search interfaces.
- [Send Feedback](#) about issues with the ASDD gateway search interface. Please contact the individual node managers about the actual dataset descriptions.

ASDD Node Information

- [About the ASDD](#) - Explains distributed data discovery.
- [Node descriptions](#) - Descriptions of each node explaining their content and extents.
- [Status of ASDD nodes](#) - Automatically generated every hour to indicate which nodes are currently available for searching.
- [Node Managers interface](#) - Allows node managers to prepare their high-level node descriptions.
- [Technical documentation](#) - Various resources to assist metadata management, describe the technologies used by the ASDD, and explain how to manage a node.
- [Requirements and Standards](#) - Concise overview of the criteria for participation as a node of the ASDD.

Reports

- [Quarterly Reports](#) - Quarterly statistics of ASDD gateway, web
- [Monthly Node Access Reports](#) - Metadata availability and nod
- [Monthly Gateway Statistics](#) - Statistics about the ASDD gateway search interfaces

<http://asdd.ga.gov.au/asdd/>

Operazione completata Internet

Find

4 November 2003

Home Data Locator Data Directory Area Search More Information

the **data locator** helps you to find and use up-to-date and accurate geographic information on your area, from a range of sources.

There are 6 search methods. You can use any combination of these to retrieve the results you need.

1 free text search:
field to search: Anywhere

2 keyword: Agriculture/Farming
Aquaculture/Fishery
Base Maps
Biota
Cadastral and legal

3 date: before 1 Jan. 1998

4 which directory would you like to search: --select all--
British Atmospheric Data Centre
British Geological Survey (BGS)
Central Government (IGGI)

5 location:
coordinates (lat/long): W: -8.097 N: 60.859
S: 49.863 E: 2.079

6 to search for location using a map, [click here](#).

search →

agi Data Providers Terms & Conditions Contact Us About Us Links Site Map
search this site:

Operazione completata Internet

<http://www.gigateway.org.uk/datalocator/default.html>

Find

IDECA - Microsoft Internet Explorer

File Modifica Visualizza Preferiti Strumenti ?

Indietro Avanti Termina Aggiorna Pagina iniziale Cerca Preferiti Cronologia Posta Stampa Modifica

Indirizzo <http://www.geoportal-idec.net/geoportal/IDECServlet?pag=catalog&home=...>

IDECA
Infraestructura de Dades Espacials de Catalunya

Generalitat de Catalunya

Presentation | Documentation | News | Articles | Links | Download MetaD | Home

data catalog
map server
market place
yellow pages

Metadata Catalog

Simple Search

Type the text to search:

Search

This simple search interface enables the user to start a quick search in the metadata entries.

Advanced Search

1. WHAT

Title of Entry

Keywords

Organisation's name

Type

Sort Results

2. WHERE

Spatial Filter

North South West East

3. WHEN

Creation date

Operazione completata Internet

Bind

