

Resources Need to be Findable

Supporting different user communities

Brief Metadata is Sufficient

Tagging, Dublin Core, ...

**Large User Community:
General Users**

Verbose Metadata is Desired

*ISO 19139, FGDC
Metadata Profiles*

**Limited User Community:
GIS Specialist**

Moving from Data Sharing to Services Sharing

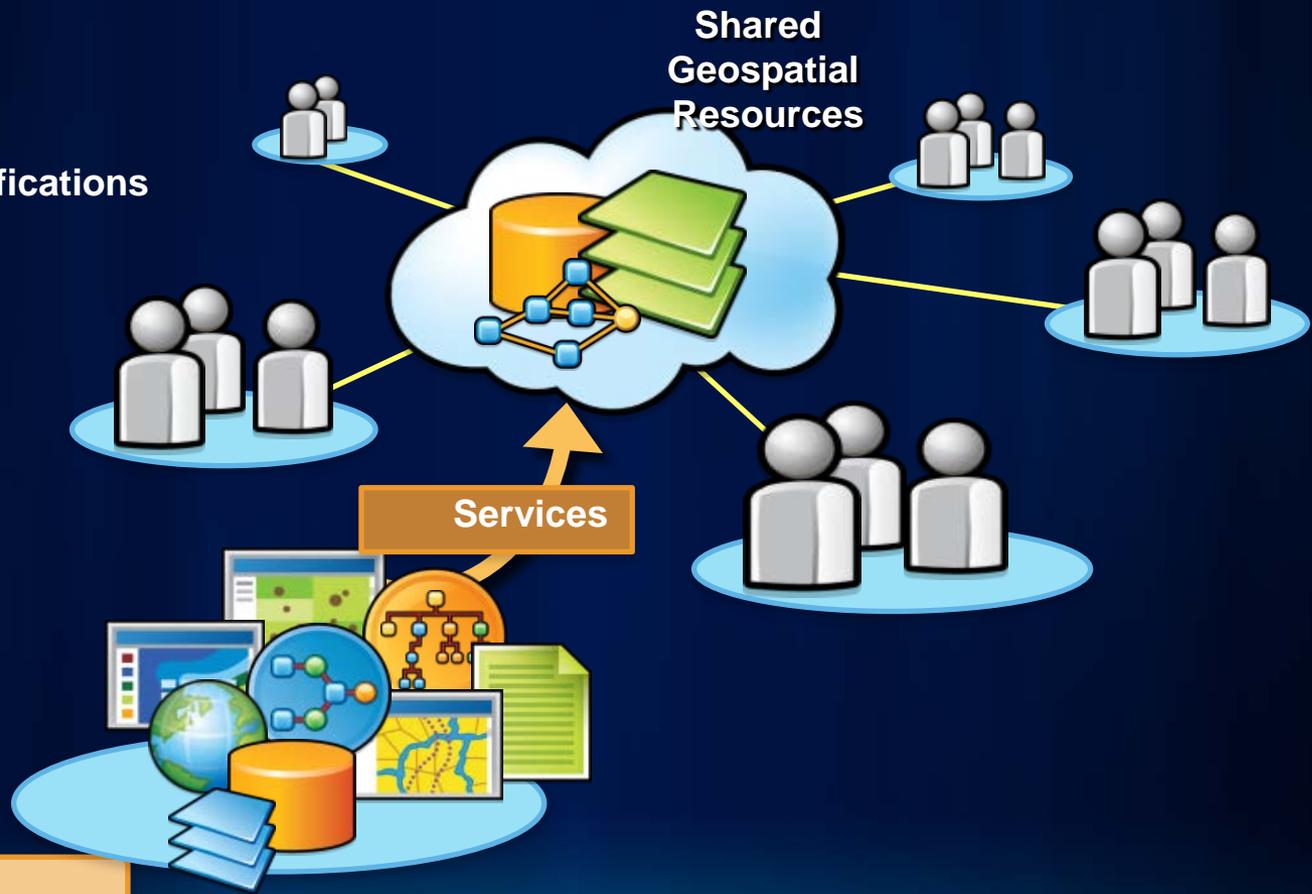
Standards Support

Open Service Specifications

Free API's

Easily Discovered

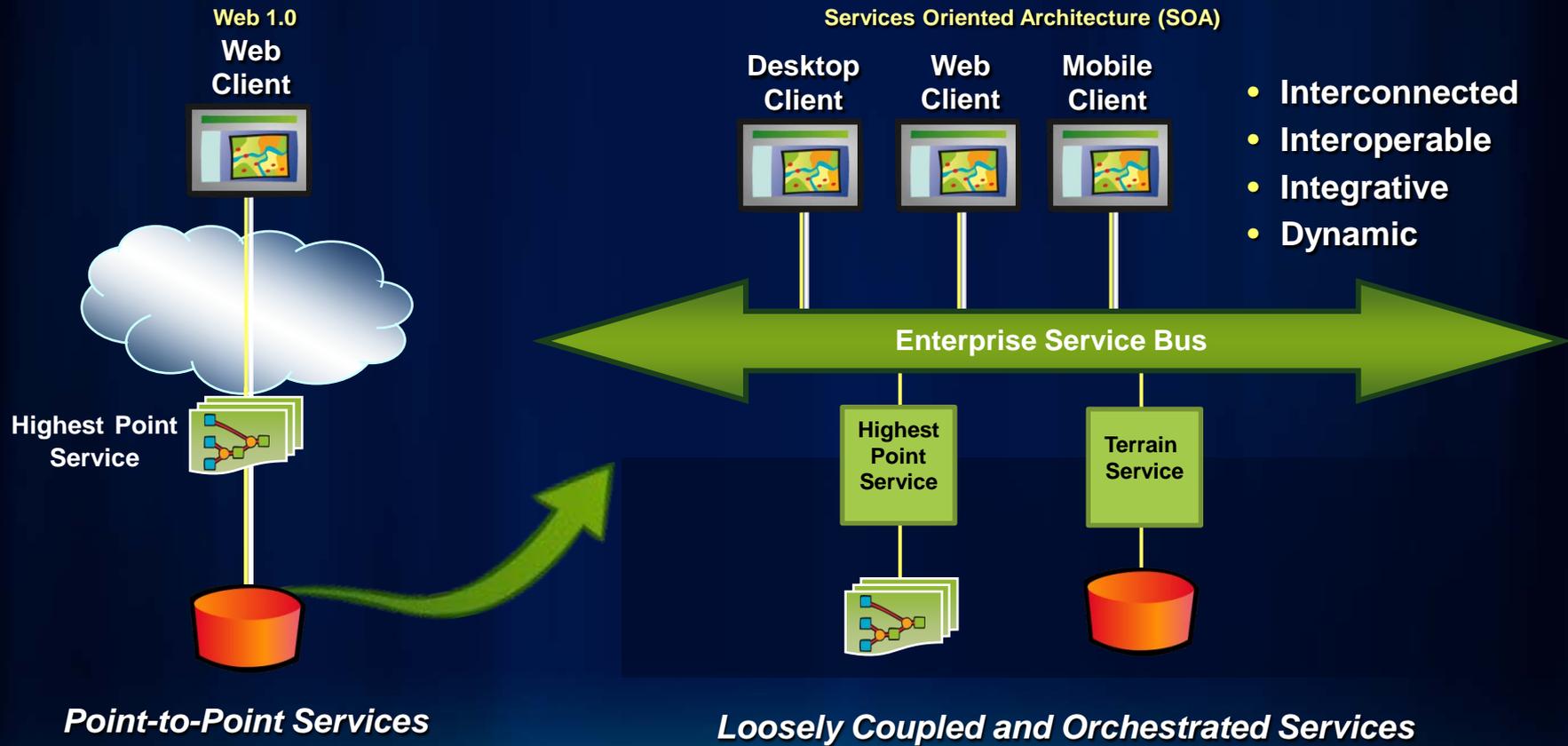
Easy to Use Clients



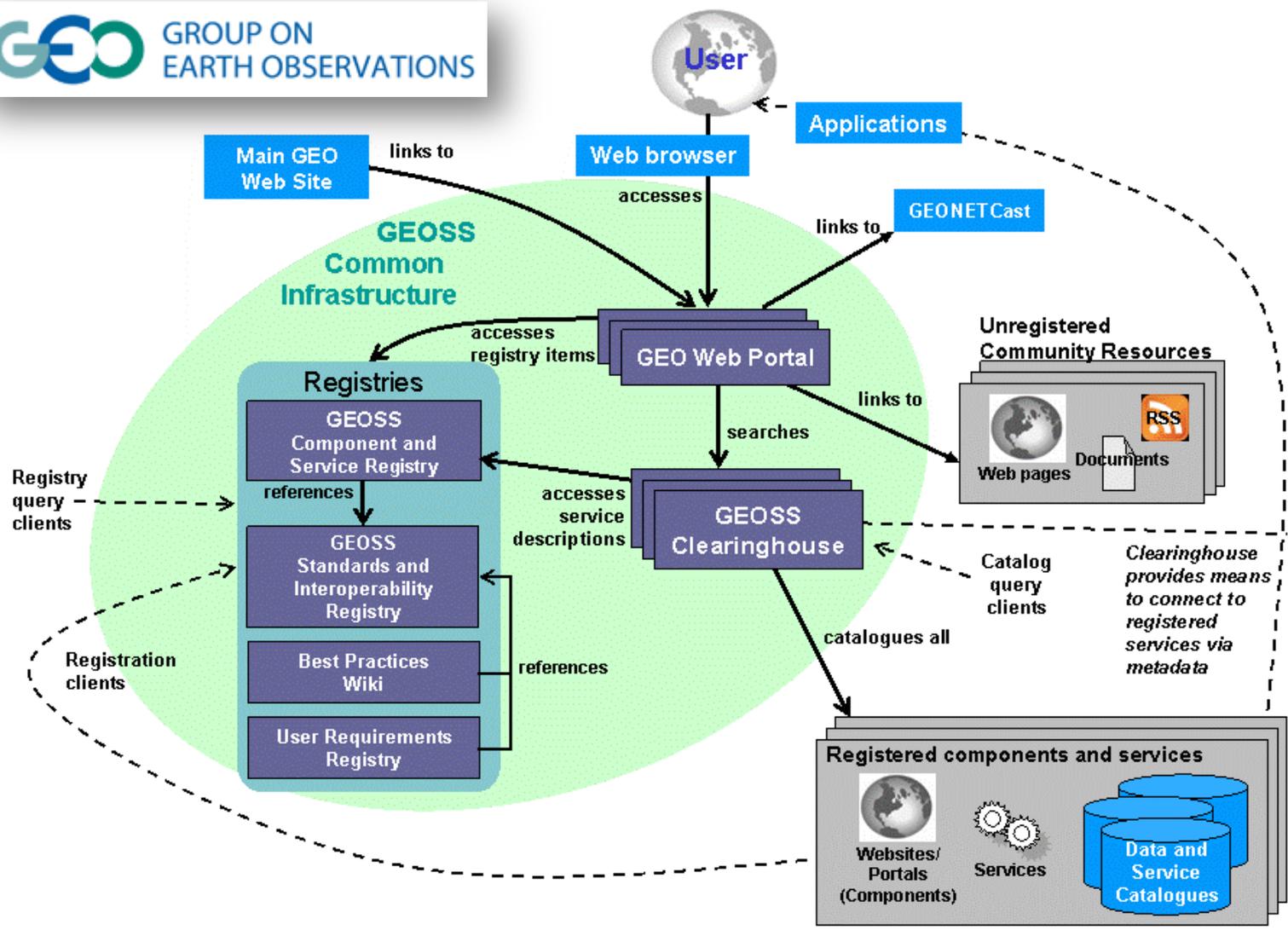
Government
Content

Open Access to Many New Users & Applications

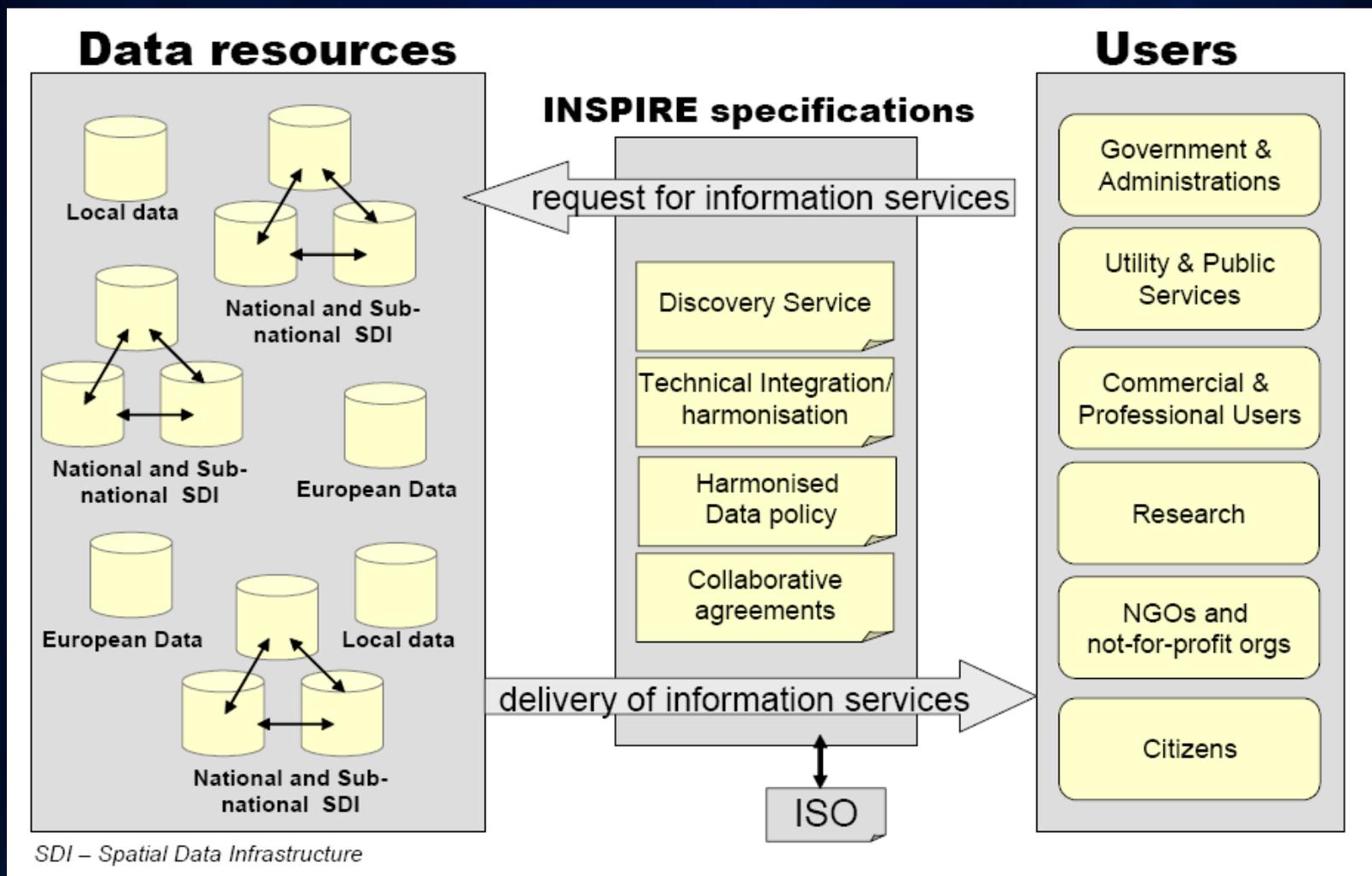
Moving From Application Silos to Platforms



GEOSS Common Infrastructure

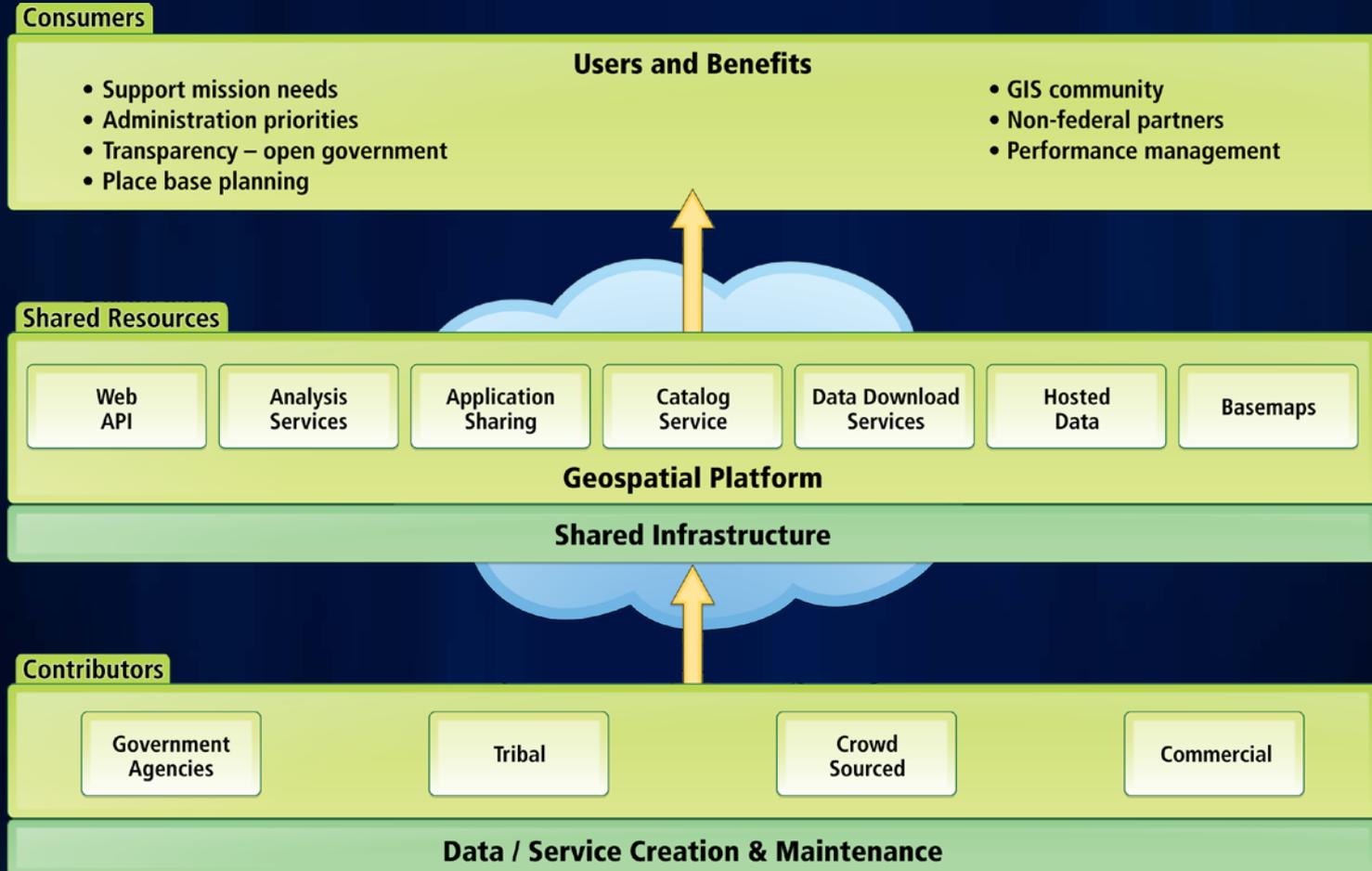


Example – INSPIRE



Geospatial Platform Connects Providers and Users

Contributors, Consumers and Shared Infrastructure/Services



Example – Data.gov

- Data.gov – new initiative to transparent government
- Should Data.gov build yet another catalog for data?
- Geodata.gov and Data.gov collaborated
- Geodata.gov now supplies Data.gov with 385,000+ downloadable datasets through an OGC Web Service



Esri Geoportal Server

Enabling discovery and use of geospatial resources in heterogeneous environments

- Search and view geospatial resources
- Manage, publish, and store metadata
- View live map services
- Download data



Use Case: “I want to find data ...”

Solution:

- Simple keyword Search
- Spatial search
- Federated Search
- Advanced options for experts
- Smart matching and ranking
- Thesaurus Service
- Search results are simple to understand... *yet contain detail for power users*

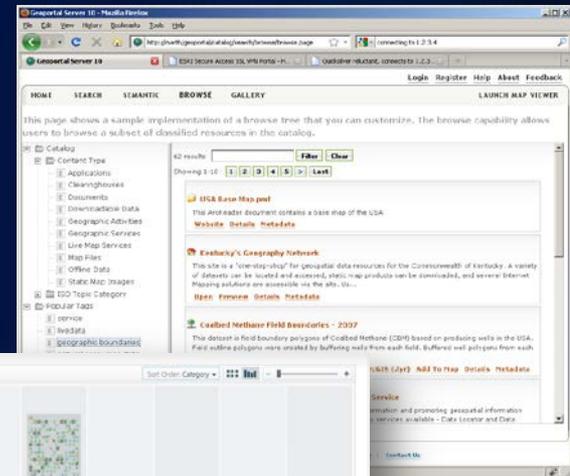
The screenshot shows a search interface with the following elements:

- Search Bar:** Contains the keyword "wind" and a "Search" button.
- WHERE:** Radio buttons for "Anywhere" (selected), "Intersecting", and "Fully within".
- Map:** A world map with two red rectangular search areas over the Atlantic and Indian Oceans.
- Results:** "Results 1-4 of 4 record(s)".
 - Result 1: "QuickScat Wind Speed" with a description: "Wind speed 10 meters above the water surface, derived from surface roughness (wind stress)".
 - Result 2: "Global Surface Meteorology Monitoring Network" with a description: "SURF_MET_WIND is a wind dataset gathered by gathered by WMO. Currently, there are about 10,000+ SURF_MET stations worldwide. Data delivered through Plymouth State Weather Center."
- Additional Options:** A dropdown menu is open, showing "CONTENT TYPE" with the following options: "Any", "Live Map Services", "Downloadable data", "Offline Data", "Static Map Images", "Documents", "Applications", "Geographic services", "Clearing Houses", "Map Files", "Geographic Activities", and "UnKnown".

Use Case: “I don’t want to search though...”

Solution:

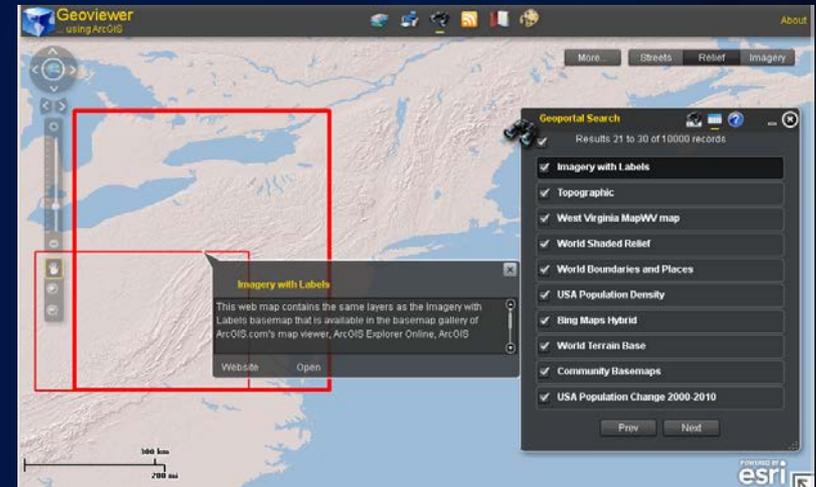
- Analogous to Department Store
- Implementer Organizes Hierarchy
- Based on Metadata Content
- Filter/Paginate Within Category
- Classification and Relationships



Use Case: “I want to make a map ...”

Solution:

- **Preview services:**
 - ArcGIS Server Map Services
 - ArcIMS Image Services
 - OGC WMS, SOS
 - GeoRSS
 - KML
- **Provide integration points for map viewer platforms**
 - JavaScript, Flex, Silverlight
 - ArcGIS Desktop ArcMap
 - ArcGIS Explorer
 - Java ADF



Use Case: “I want to download data ...”

Solution:

- Select area
 - Select data
 - Set options
 - Deliver download link through email
- Based on Clip-Zip-Ship Service
 - Extensible in Python

Download

e-mail address:

Output file format:

Projection:

Places

- Hospitals
- Schools

Transportation

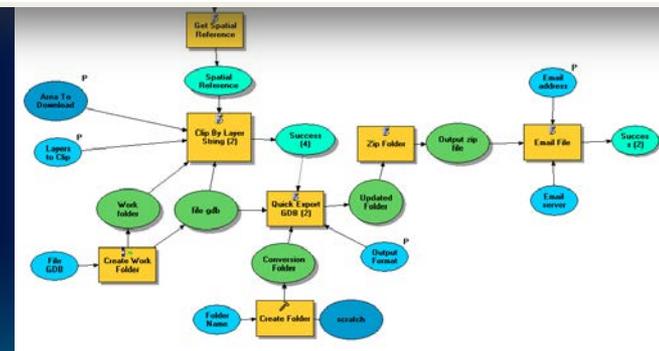
- Major Roads
- Minor Streets

Hydro

- Rivers and Lakes
- Streams

Land Records

- Buildings
- Parks



Use Case: “I want to share my resource...”

Solution:

- Register Servers or Services Directly
- Create metadata online
- Upload metadata
- Register catalog service for harvesting
- Support metadata standards:
 - INSPIRE
 - North American Profile
 - Dublin Core
 - Configurable

The image displays three overlapping screenshots of a web application interface. The top screenshot, titled "Register New Item", shows a form for registering a new item. It includes a dropdown menu for "On behalf of:" (set to "mhogeweg"), a "Level of Detail" section with radio buttons for "Simple Item Description", "Detailed Item Description", "ISO 19139/19119 Web Services", "ISO 19139/19115 Dat", "North American Profile", "INSPIRE Profile to ISO", and "IEEE Standards Regis", and a "Proceed" button. The middle screenshot, titled "Create Repository", shows a form for creating a repository. It includes a "Protocol Type" section with radio buttons for "ESRI MS", "Z39.50", "OAI", "WAF", and "CSW" (selected), "Name:" and "Host Url:" input fields, a "Test" button, a "Profile:" dropdown menu (set to "ArcIMS 9.3 CSW 2.0.2 OGCCORE"), and a "Metadata" section with a list of metadata standards including "Compusuit WES CSW 2.0.1 OGCCORE", "ArcGIS Online", "terra catalog CSW 2.0.2 AP ISO", "terra catalog CSW 2.0.0 AP ISO", "EXCAT CSW 2.0.2 OGCCORE", "SRU CSW 2.0.2 Gateway to Z39.50", "IONIC CSW 2.0.0 ebRIM", "The GIS category", "ArcIMS 9.2 CSW 2.0.1 ebRIM", "NASA CSW 2.0.2 APISO", "Compusuit WES9 CSW 2.0.0 OGCCORE", "INSPIRE CSW 2.0.2 AP ISO", "CSW 2.0.2 AP ISO", "Please s", "GeoNetwork CSW 2.0.1 EBRIM", "ArcIMS 9.2 CSW 2.0.0 OGCCORE", "ArcIMS 9.3 CSW 2.0.2 OGCCORE", "ArcGIS Server Image Catalog", and "ArcIMS 9.1 CSW 2.0.0 OGCCORE". The bottom screenshot, titled "Upload Metadata", shows a form for uploading metadata. It includes a "Please use the Browse button to select the metadata file from ISO metadata standard and in Extensible Markup Language (XML) the catalog." instruction, an "On behalf of:" dropdown menu (set to "mhogeweg"), a "Browse for a local file" radio button (selected) and a "Specify a network path" radio button, a "Local path:" input field, a "Browse..." button, and "Upload" and "Validate" buttons.

Use Case: “Is new data is available...?”

See results through REST API: [GEORSS](#) [ATOM](#) [HTML](#) [FRAGMENT](#) [KML](#)

Solution:

- User specifies search criteria
- Give user link to a GeoRSS feed
- User subscribes to GeoRSS feed

The screenshot shows a Twitter profile for 'geoportal' in a Windows Internet Explorer browser. The profile name is 'o_0 geoportal'. A tweet is visible with the text: 'ESRI GEO Portal AIRNOW WCS: Airnow WCS' and a link 'http://tinyurl.com/p9q6y5'. A yellow callout box highlights a 'GIS Portal GeoRSS' link with a 'Subscribe to this feed' button. An Internet Explorer dialog box is open, showing the 'Subscribe to this Feed' form with the name 'My Custom Search GeoRSS' and a 'Subscribe' button.

Use Case: "Is my resource is available...?"

Solution:

- Monitor Services
- Verify Implementation

- Performance and Scalability:

<http://resources.esri.com/enterprisegeis/index.cfm?fa=performance.main>

- FGDC Service Status Checker:

<http://registry.fgdc.gov/statuschecker/>

The screenshot displays the FGDC Service Status Checker interface. At the top, there is a navigation bar with links: [Open](#), [Preview](#), [Add To Map](#), [Details](#), [Metadata](#), [Zoom To](#), [Share](#), and [Test](#). The [Test](#) link is circled in red. Below the navigation bar, there is a search bar and a list of services. The main content area shows a "Service Analysis Report for 2009-07-09 2:20:09". The report includes a "Service Information" section with a "Service Report Card" showing a score of 99.45%. The "Registration Validation" section indicates that the service URL is valid. The "Test Results" section shows a table with columns for Test, Status, Response, and Score (0 - 100). The table contains one row for the "getMap" test, which has a status of "Success" (indicated by a green arrow) and a score of 99.45. Below the table, there is a section for "Full Suite of Tests" with columns for Test, Status, URL, and Error.

Test	Status	Response	Score (0 - 100)
getMap	Success	0.70	99.45

Test	Status	URL	Error
HttpServer	Success	http://srs-mapserv.dli.wa.gov.au	-
getCapabilities	Success	http://srs-mapserv.dli.wa.gov.au/firewatch.asp?Service=WMS&Request=GetCapabilities	-
getMap	Success	http://srs-mapserv.dli.wa.gov.au/firewatch.asp?Version=1.1.1&Request=GetMap&Service=WMS&OX=94.527,-44.148,083.7,455&FORMAT=image/png&SR=EPSG-4326&Layers=2005_Firescars&Height=250&Width=250&Style=s	-

DeKalb County Board of Health

Fulton County Dept. of Health and Wellness/District 3, Unit 2: GIS

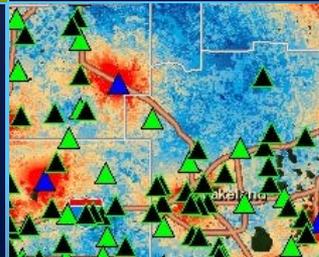
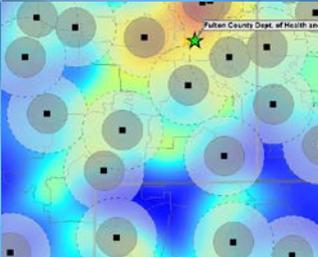
DEMO

Discover

Evaluate

Access

Geoviewer



Esri Supports Open Source Software

The author, who claims creation of this work, **expressly publishes it to the public domain. This work is free for the taking and cannot be appropriated by a single author** even though it may be included in a copyrighted work. It **may be freely used and redistributed** and is provided **"AS-IS" without warranty of any kind.** No technical support is provided.



Esri Supports Open Source Software

ArcScripts downloads - ESRI Support - Mozilla Firefox

http://arcscripts.esri.com/scripts.asp?pg=1&sb=9&ob=asc&eDate=&n=

ArcScripts downloads - ESRI Support

You are here: > ArcScripts > Search Results

Search ArcScripts

Use the following options to customize your search:

All languages

All ESRI software

10 Results per page Show script summaries

Search for [Tips](#)

Scripts for: All languages AND All ESRI software
scripts 1-10 of 5715

Resort by	Title	Software	Language	Author	Modified	Downloads
	View. LabelOnlyFeaturesBiggerThanLabels	ArcView GIS	Avenue	ESRI	Mar 23 1998	939
	View. HideLegendForInvisibleThemes	ArcView GIS	Avenue	ESRI	Mar 26 1998	1023
	Draw Complete Arrows	PC ARC/INFO / DAK	SML	ESRI	Mar 31 1998	532
	AddValence	ArcInfo Workstation	AML	ESRI	Apr 6 1998	858

Language	Author	Modified	Downloads
Avenue	ESRI	Mar 23 1998	939
Avenue	ESRI	Mar 26 1998	1023
SML	ESRI	Mar 31 1998	532
AML	ESRI	Apr 6 1998	858

Resort by	Title	Software	Language	Author	Modified	Downloads
	XTools	ArcView GIS	Avenue	Mike DeLaune	Sep 15 2003	160178
	Export to KML 2.5.4	ArcGIS Desktop	Visual Basic	Kevin Martin	Aug 17 2010	111115

Done

Esri Geoportal Server

<http://esriurl.com/geoportalserver>

The screenshot shows the Esri Geoportal Server website in a Mozilla Firefox browser window. The browser title is "Esri Geoportal Server - Open Source Software - Mozilla Firefox" and the address bar shows "http://geoportal.sourceforge.net/". The website has a navigation menu with links for Home, Download, Contribution, Documentation, and Support. The main heading is "Esri Geoportal Server".

Getting Geoportal Server

[Download Now](#)

Read [system requirements](#).

[Download source code](#)

[Project discussion](#)

[Get support](#)

Getting involved

To join this project, please read [project contribution page](#) and contact the project administrators of this project

What is Esri Geoportal Server?

Esri Geoportal Server allows you to catalog the locations and descriptions of your organization's geospatial resources in a central repository called a geoportal, which you can publish to the Internet or your intranet. Visitors to the geoportal can search and access these resources to use with their projects. If you grant them permission, visitors can also register geospatial resources with the geoportal. Geoportals give you an enterprise-level view of your geospatial resources regardless of their type or location. Resources are registered with a geoportal using metadata, which describes the location, age, quality, and other characteristics of the resources. Therefore, you can ensure that everyone in your organization is using the best resources available.

With the Geoportal Server, you can:

- Improve the efficiency and effectiveness of geospatial activities within your enterprise and across organizations.
- Support collaboration and cooperation among departments and organizations by facilitating the sharing of geospatial resources regardless of the GIS platform.
- Gain an enterprise-level awareness of disparate geospatial data, Web services, and activities.
- Leverage existing geospatial resources so your organization doesn't duplicate those resources or the effort to create them.

Demo

[Try our live demo site](#)

Latest

2011-01-04: Geoportal Server 1.0 Released

Esri Geoportal Server 1.0

New and Familiar

- **Geoportal Extension is now Esri Geoportal Server**
- **Released under Apache 2.0 license**
- **Available on SourceForge**
 - **Code**
 - **Documentation**
 - **Releases**
 - **Community**
- **No requirement for ArcGIS Server**
- **Optional technical support from Esri**
- **<http://esriurl.com/geoportalserver>**

Community Contributions Welcome



Development Plan Geoportal Server 2011

- **Version 1.1 – April**
 - Enhanced ISO/INSPIRE metadata editor
- **Version 1.1.1 – June**
 - Enhanced FGDC metadata editor and documentation
- **Version 2.0**
 - ArcGIS Portal integration
 - ebRIM, Feature Data Dictionary, Feature Catalog support
 - Simplify installation/upgrade
 - Enhanced WMTS, SOS, WPS support
 - OAI-PMH, Z39.50, and GeoSPARQL
 - Complete Wiki documentation
 - Upgrades to new underlying API

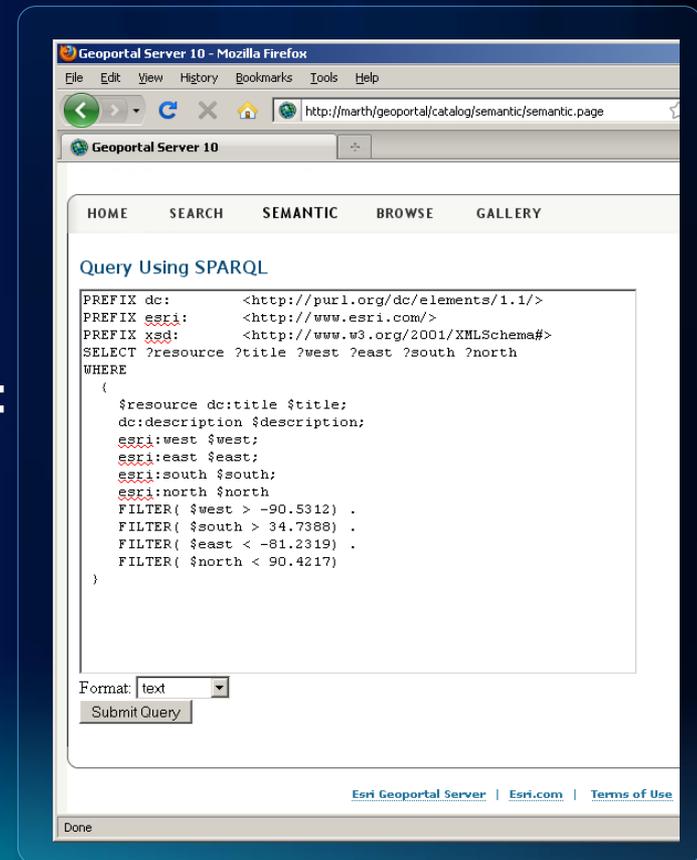


Enhanced Metadata Editor

- **New Framework for Metadata Editors**
- **New Publishing Pipeline**
 - **Form Validation**
 - **Schema Validation**
 - **Schematron Validation**
- **Separate User Interface From Form Logic**
- **Edit Full Metadata**
 - **Repeatable sections and elements**
 - **Componentized Metadata Definition**
- **Extensible Through JavaScript**
- **Version 1.1 – ISO/INSPIRE Metadata**
- **Version 1.1.1 – FGDC Metadata**

Linked Data – GeoSPARQL

- **Driven by Open Government Initiatives:**
 - Data.gov, Data.gov.uk
- **Semantic Web Technologies:**
 - Uniform Resource Identifiers
 - Resource Descriptor Framework
 - Ontologies
- **Relationships Between Resources:**
 - Linked Data
- **Spatial Operators**





ArcGIS Portal



```
function onMapClick(event) {  
    var map = new esri.Map("map");  
    var t1 = new esri.TiledMapServiceLayer("http://services.arcgis.com/12345678901234567890123456789012/arcgis/rest/services/World_Street_Map/MapServer");  
    map.addLayer(t1);  
    map.on("click", function(event) {  
        function getDriveTimePolygons(features) {  
            var features = results[0].features;  
            for (var feature in features) {  
                var feature = features[feature];  
                if (feature.attributes["type"] == "Road") {  
                    var polysymbol = new esri.PolygonsSymbol({  
                        color: "#FF0000",  
                        width: 2,  
                        style: "solid",  
                        dash: []  
                    });  
                    feature.setSymbol(polysymbol);  
                }  
            }  
        }  
        new dojo.Color(0, 0, 0, 0.5);  
        polysymbol = new esri.PolygonsSymbol({  
            color: "#FF0000",  
            width: 2,  
            style: "solid",  
            dash: []  
        });  
        feature.setSymbol(polysymbol);  
    });  
}
```

ArcGIS Portal

A private, collaborative, geospatial content management system

- Catalog
- Web experience
- Free viewers
- APIs
- Open
- Identity management
- Admin tools



ArcGIS Portal

Sharing and collaboration

- **Sharing**
 - Embed in web page or blog
 - Links & social networks
 - Reuse & Leverage maps
- **Collaboration via groups**
 - Exchange content
 - Limit to specific community, project, or common activity
 - Private and public

The image illustrates the process of sharing an ArcGIS map. It features three main components:

- ArcGIS Map Viewer:** A screenshot of the ArcGIS web interface showing a map titled "CA Operational Picture - December 2011". The map displays various colored regions across California, including Los Angeles, Orange, and San Diego counties.
- Share Dialog Box:** A "Share" dialog box is overlaid on the map, showing the "Embed in Personal Website" option. It provides the following HTML code for embedding:

```
<iframe width="500" height="400" frameborder="0" scrolling="no" marginheight="0" marginwidth="0" src="http://www.arcgis.com/home/webmap/embedViewer.html?webmap=9eab2c9e2eaf47129ff9ff5eb77b79" ></iframe><br /><small><a href="http://www.arcgis.com/home/webmap/viewer.html?webmap=9eab2c9e2eaf47129ff9ff5eb77b79" style="color:#0000FF;text-align:left" target="_blank">View Larger Map</a></small>
```

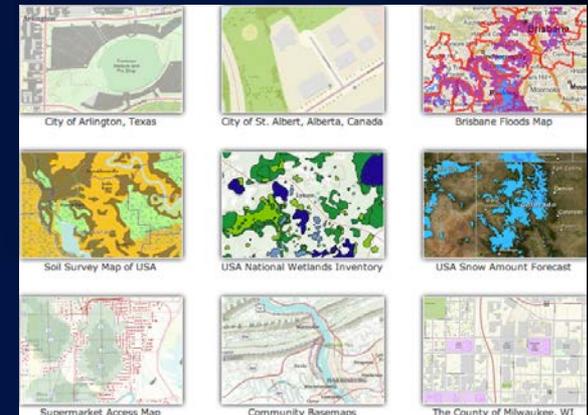
Below the code, there are options for map size: Small (300 x 260), Medium (500 x 400, selected), Large (940 x 600), and Custom (Width 500, Height 400). There are also checkboxes for "Show zoom control" and "Show scale bar", and a "Back" button.
- Social Media Post:** A screenshot of a social media-style post for the map. The post is titled "CA Operational Picture - December" and is dated "Tuesday, February 15, 2011". It includes a "Followers" section with a "Follow" button and a note "There are no followers yet. Be the first!". Below that, it says "Already a member? log in". There is also a "Blog Archive" section with a dropdown menu for "2011 (8)", a sub-menu for "February (7)", and a link for "CA Operational Picture - December" with a "new map" label. At the bottom, it says "Posted by Paul Ross at 10:41 AM" and includes social media sharing icons.

ArcGIS Portal

Sharable items

- **Maps**

- Web maps
- Map, image, feature and globe services
- Map & layer packages (.lpk), map templates (.mxd)
- **Coming soon: WMS, KML and CSV**



- **Apps**

- Web mobile and desktop
- Can include code samples



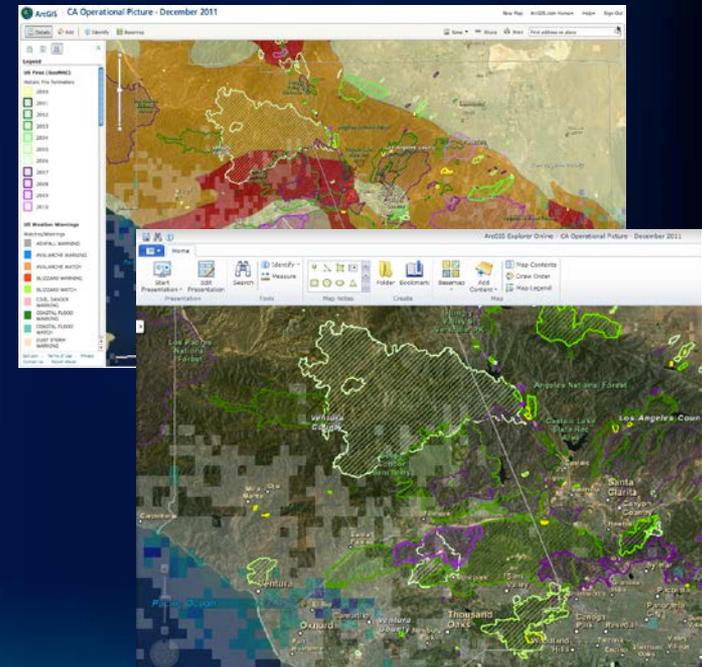
- **Tools**

- Geocoding, Network analyst services
- **Coming at ArcGIS 10.1 - Analytic models**

ArcGIS Portal

Map Viewers

- Integrated viewer and Explorer Online
- Integrated search
- Easily created mashups
 - Registered with the Portal, or
 - A named ArcGIS Server
- Tools for refining the map
 - Notes, Popups, Presentation tools
- Shared to clients
(desktop, mobile, custom apps)



ArcGIS Portal or Geoportal Server?

Geoportal Server and ArcGIS Portal

- **Search ArcGIS Portals from Geoportals**
- **Full Metadata with ArcGIS Portal Items**
- **Contribute Resources to ArcGIS Portals/ArcGIS.com**
 - Transform Standards-based Metadata
 - Authenticate with ArcGIS Portal
 - Register Resource with ArcGIS Portal
- **Future Plans:**
 - Synchronize content between Geoportal and ArcGIS Portal
 - Related Items
 - Provide OGC CS-W Interface to ArcGIS Portal

ArcGIS Portal or Geoportal Server?

