



Esri International Developer Summit  
Palm Springs, CA

# Building Discovery Solutions Using Geoportal Server

@martenhogeweg

# Esri Geoportal Server

<https://github.com/Esri/geoportal-server>

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**ZIP File**

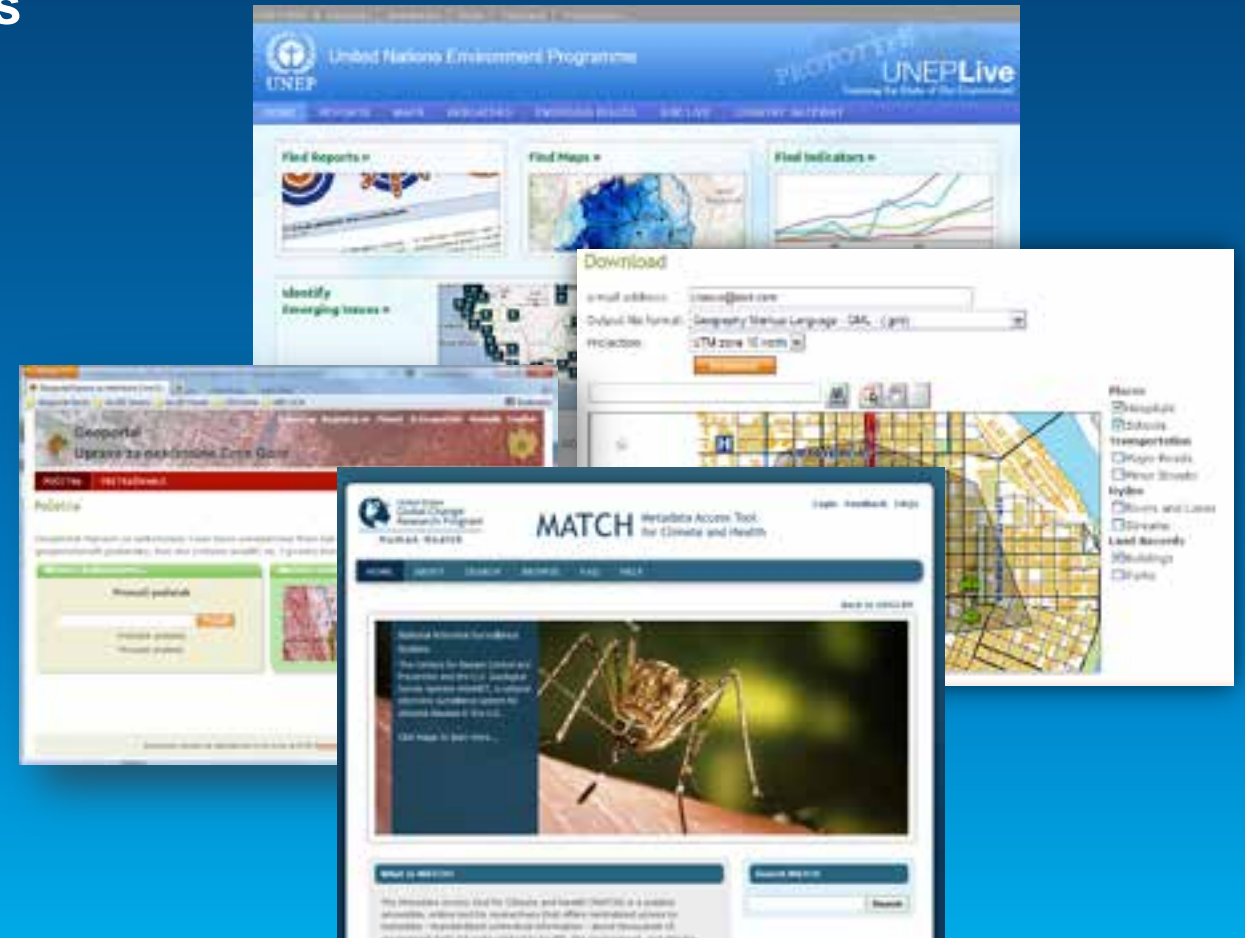
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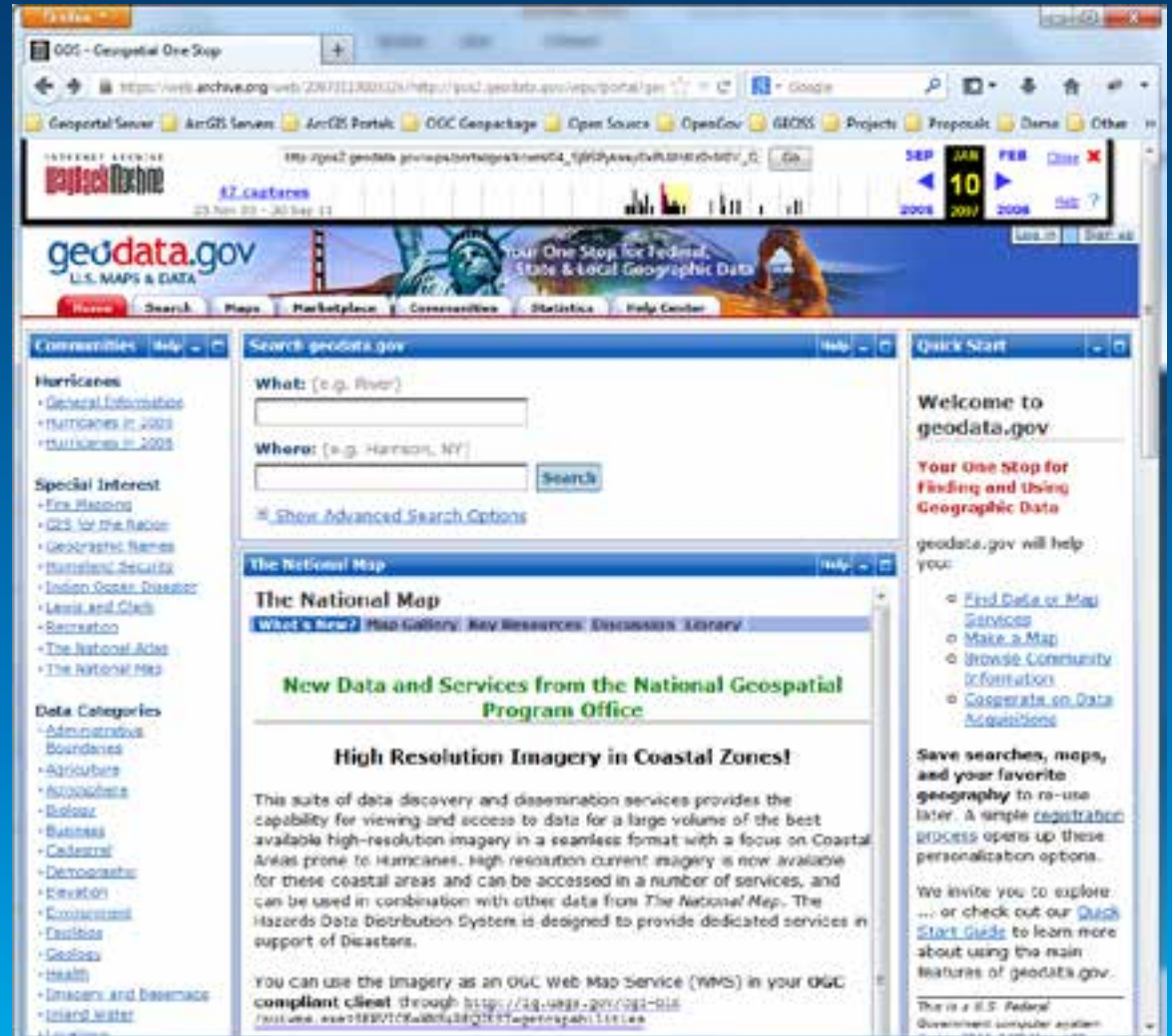
# Esri Geoportal Server

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
- 
- Open Source
    - Apache 2.0
    - Used globally
    - 75% outside US

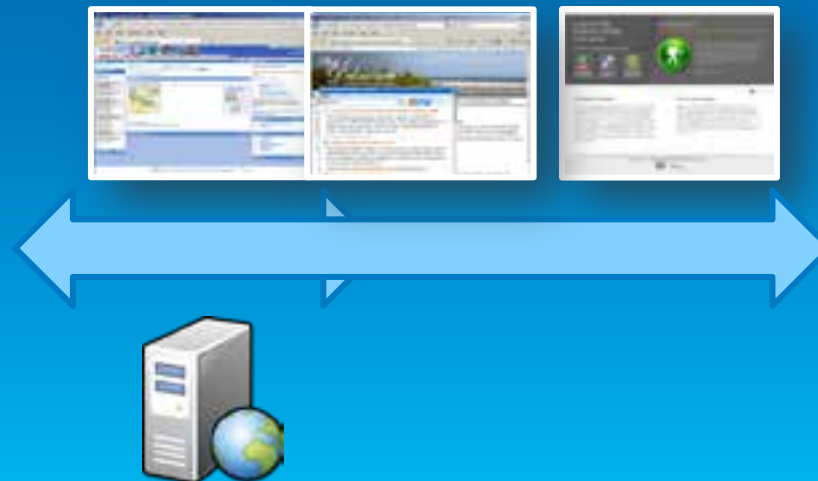


# Geospatial One-Stop (2004 – 2010)



## Data.gov (2009 – present)

- Data.gov – Obama administration initiative to transparent government
- Should Data.gov build yet another catalog for data?
- Geodata.gov and Data.gov collaborated
- Geodata.gov supplied Data.gov with 450,000+ downloadable datasets through an OGC Web Service





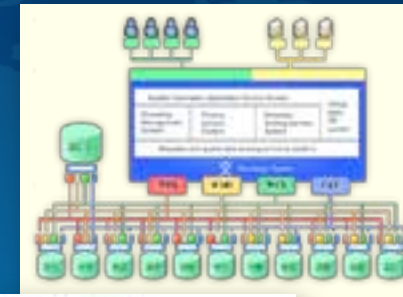
# Spatial Data Infrastructures are Everywhere



US



Russia



China



EU



Geneva,  
Switzerland



Bogotá,  
Colombia



Singapore



Indonesia

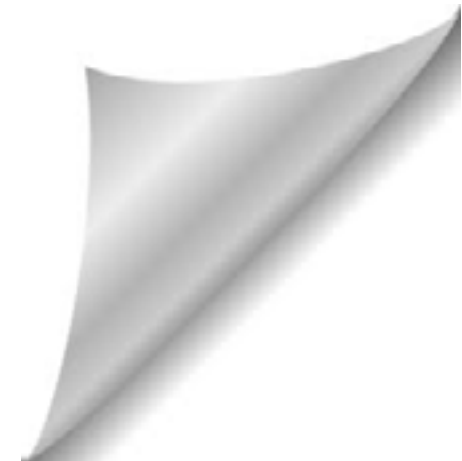


Abu Dhabi



India

# Fliporama



# Spatial Data Infra...





# Open Data



# NEW Open Data Directive

Agencies shall take the following actions to improve the management of information resources throughout the information's life cycle and reinforce the government's presumption in favor of openness...

Machine Readable  
Data Standards  
Open Licenses  
Enterprise Data Inventory  
Interoperability  
Engage Customers  
Open Formats  
Privacy  
Information Processing  
Accessibility  
Public Data Listing  
Confidentiality  
Metadata

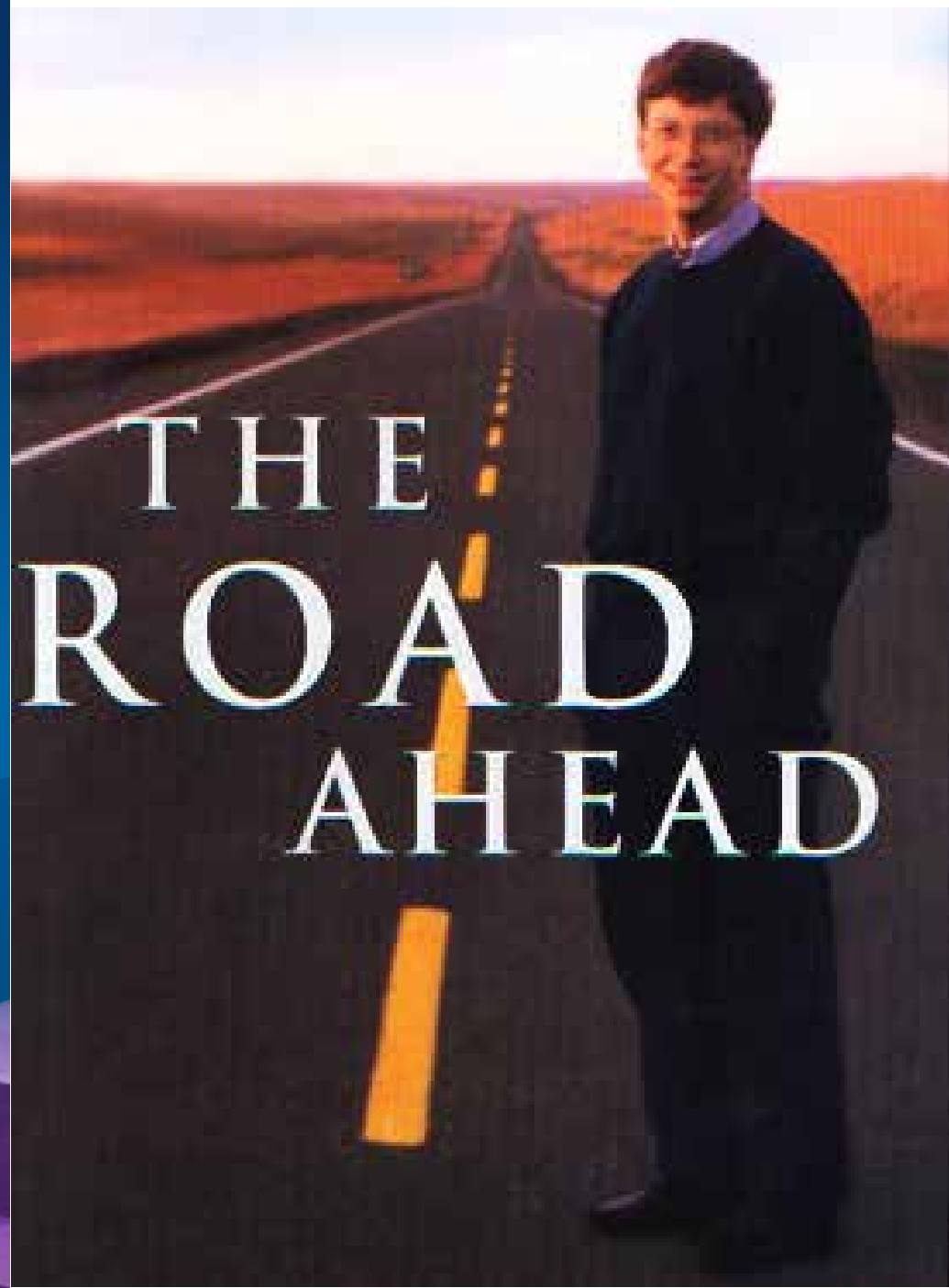


So... Is this the end of Geoportal Server?



**NO**

# The Road Ahead







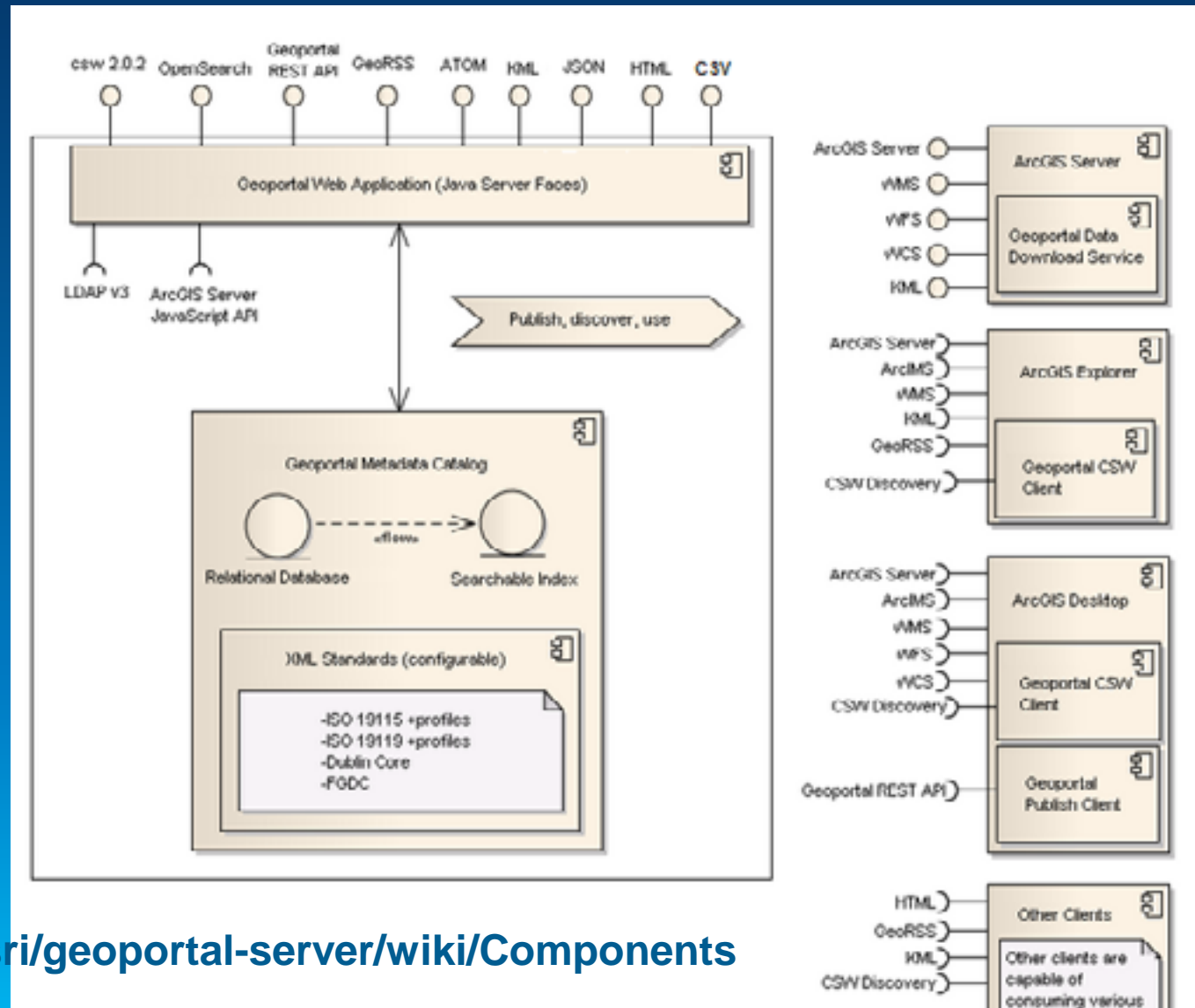
喫煙所

Smoking Area

吸烟处    흡연소



# Got API?

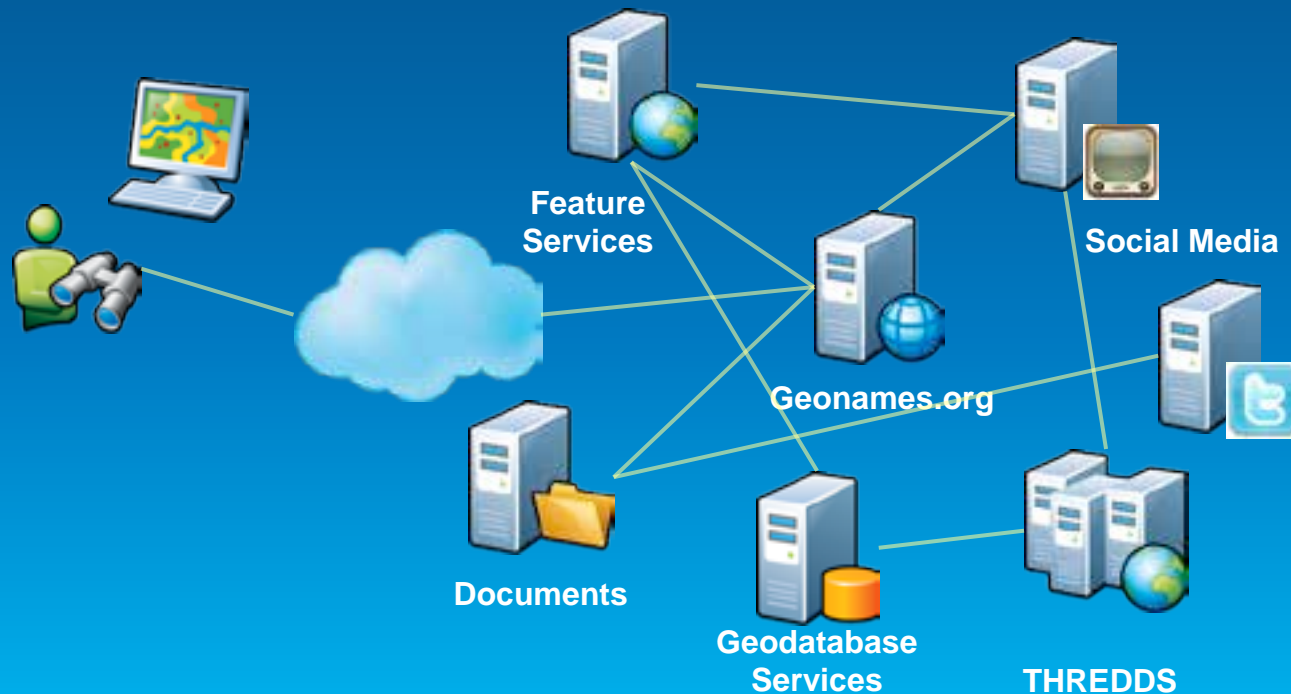


<https://github.com/Esri/geoportal-server/wiki/Components>



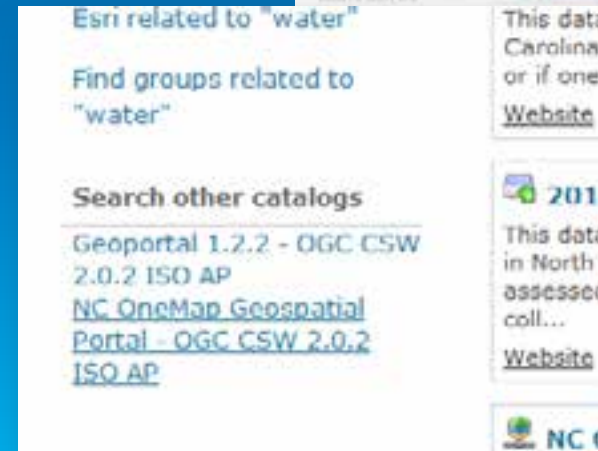
# Go Beyond Metadata Searching

- Find Features in Feature Services, Geodata Services
- Find Articles in RSS/Atom Feeds
- Find (Non-)Geospatial (Social) Media (Video, Photo, ...)



# Federate Search from ArcGIS Portal

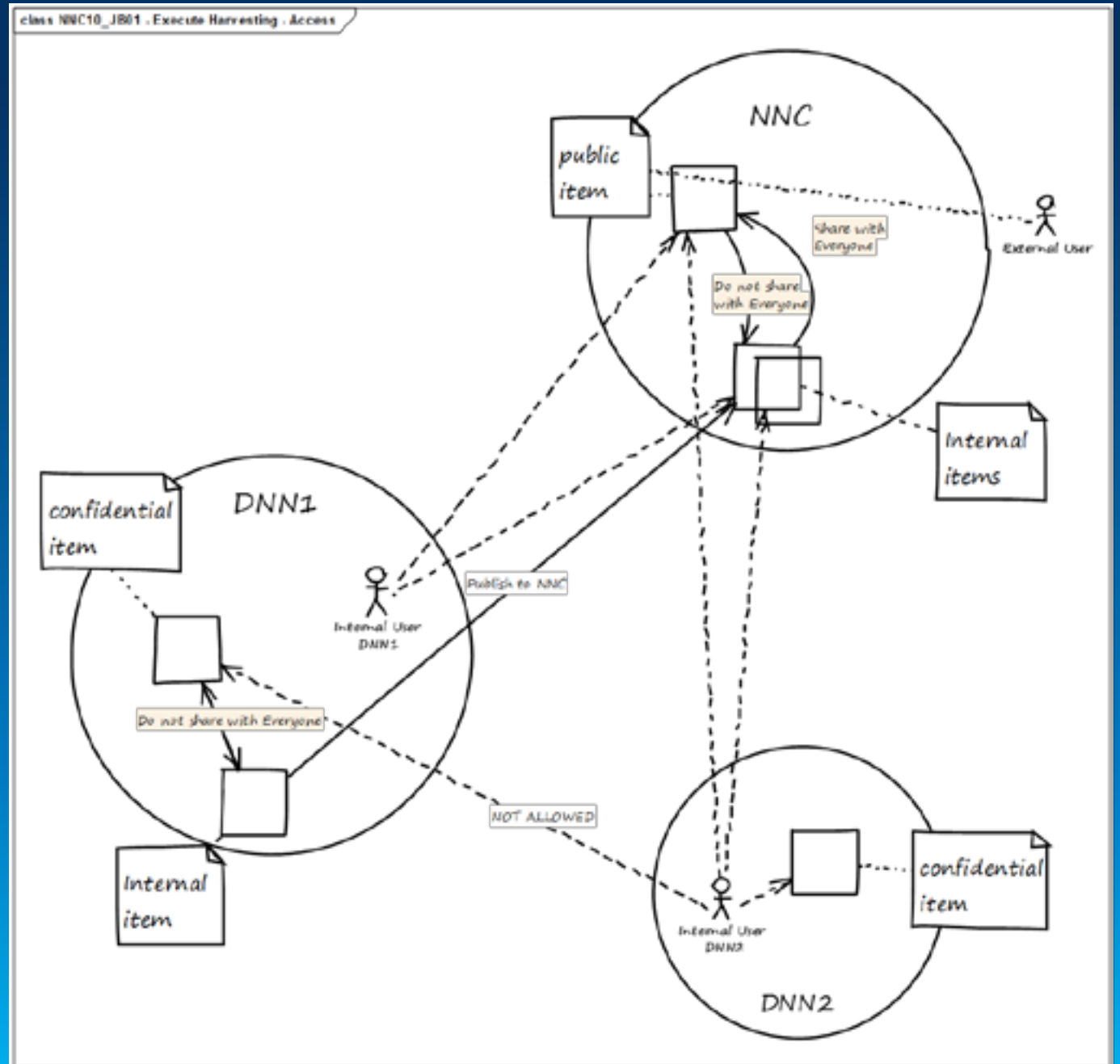
- Manage federated catalogs in Geoportal Server
- Retrieve list from Geoportal Server  
<http://gptogc.esri.com/geoportal/rest/repositories>
- Add widget to ArcGIS Portal/Online search page
- Supports any catalog Geoportal Server can search:
  - OGC CSW
  - OpenSearch
  - Proprietary search interfaces





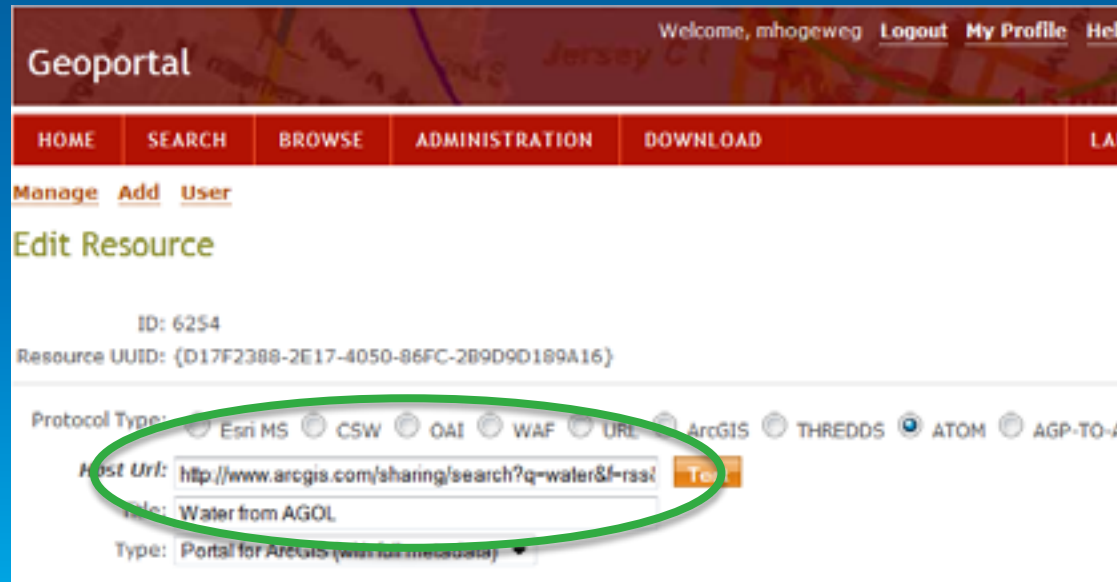
# Synchronize Portals

- Geoportals as Broker Between ArcGIS Portals/Online



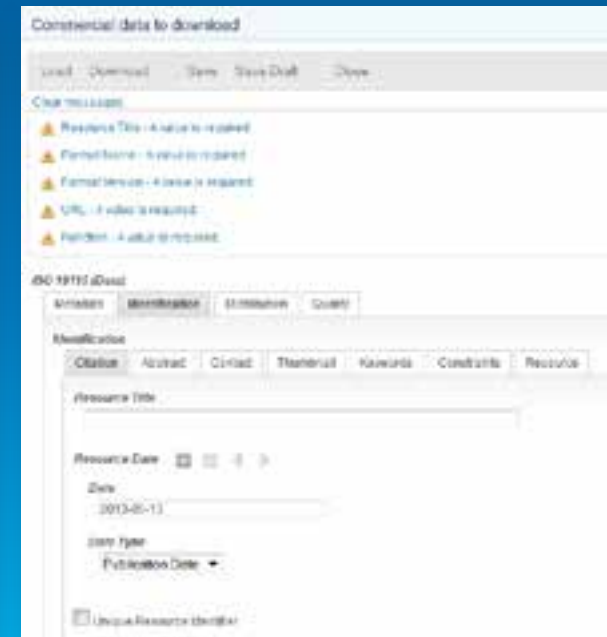
# OGC CS-W Interface to Portal for ArcGIS

- Harvest ArcGIS Online Using ATOM Feed
- Expose Content Through Geoportals CS-W
- Example: <http://geoss.esri.com/postXML>



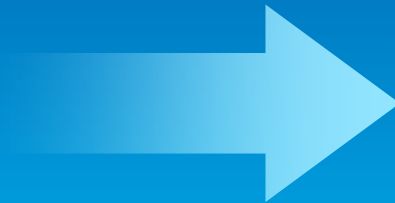
# Standards-based Metadata Editor for Portal for ArcGIS items

- Add Geoportal Metadata Editor to on-premises Portal for ArcGIS
- Use Geoportal Server configuration and validation
- Store metadata in Portal for ArcGIS using API



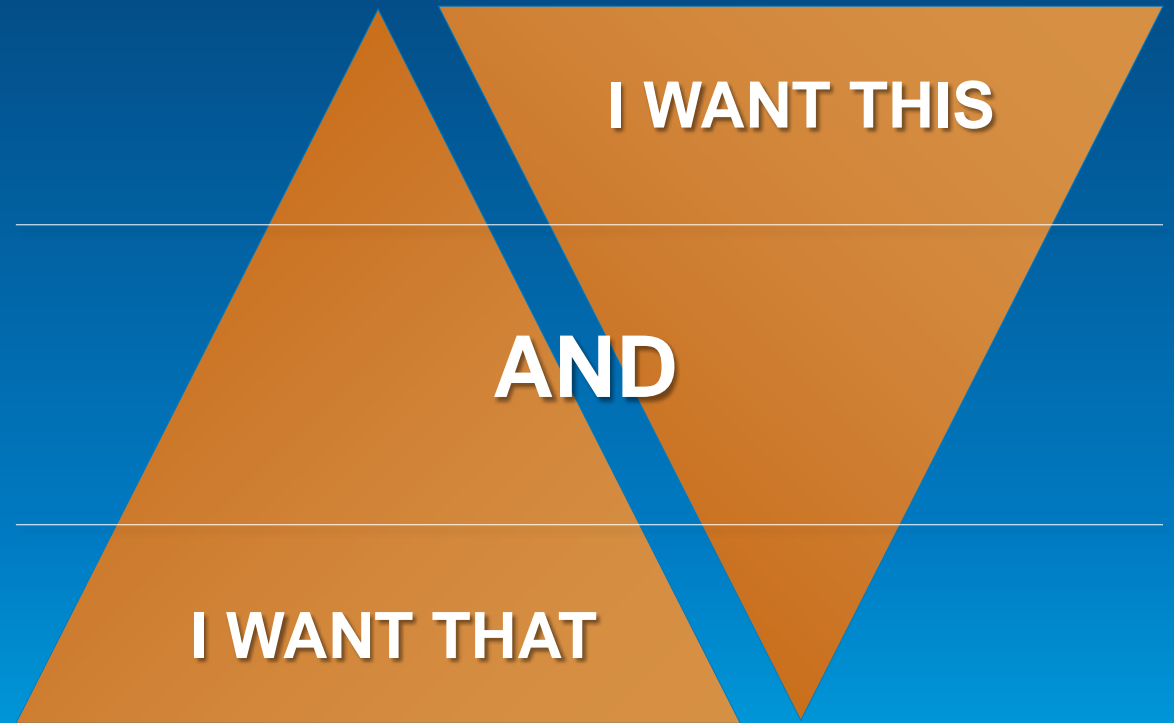
# Support Open Government Initiatives

- Support DCAT
  - Expose Catalog As - <http://gptogc.esri.com/geoportal/dcat.json>
  - Harvest DCAT – for example: <http://www.doi.gov/data.json>
- Provided Patch to Users
- Complete and Compliant in 1.2.5



# SDI AND Open Data – The Power of AND

- Minimalistic user experience  
AND rich functionality
- Simple descriptions  
AND complete metadata
- Work with our content  
AND everyone else's
- Great taste AND 0 calories
- Outsource everything  
AND do it myself
- Publish once  
AND share everywhere





# Geoportal Server is OPEN SOURCE

This repository - Search or type a command Explore Gist Blog Help mhogeweg

Esri / geoportal-server Unwatch 41 Unstar 52 Fork 57

Geoportal Server is a standards-based, open source product that enables discovery and use of geospatial resources including data and services.

476 commits 7 branches 2 releases 10 contributors

branch: develop geoportal-server

This branch is 190 commits ahead and 10 commits behind master Pull Request Compare

build target updated for any cpu.

prats5814 authored 7 days ago latest commit 7e8158522b

components	build target updated for any cpu.	7 days ago
documentation	delete pdf	8 months ago
geoportal	updated metadata schema usage.	8 days ago
javascripts	Create gh-pages branch via GitHub	a year ago
stylesheets	Create gh-pages branch via GitHub	a year ago
support		

Code Issues 28 Pull Requests 1 Wiki Pulse Graphs Network

HTTPS clone URL <https://github.com>

You can clone with HTTPS, SSH, or Subversion

Clone in Desktop

<http://esriurl.com/geoportalserver>



Understanding our world.