



International Open Government Data Conference

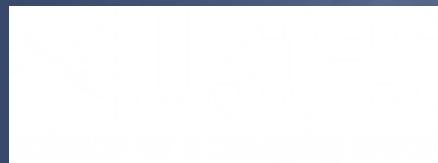
Enabling Geospatial Killer Apps—Interfaces, Visualizations and APIs—Imaging the World

Jim Barrett, *Data.gov Geospatial Architect*

Pat Cummins, *Government Strategist, Esri*

Rob Dollison, *National Geospatial Program, U.S. Geological Survey, U.S. Department of the Interior*

Jerry Johnston, Ph.D., *Geospatial Information Officer, U.S. Environmental Protection Agency (Moderator)*



National Geospatial Program Office

Geospatial One-Stop (GOS) *Lessons Learned for Open Data*



First International Open Data Conference
November 16, 2010

President's Open Government Initiative



Three Pillars - Transparency, Participation and..

- **Collaboration improves the effectiveness of Government by encouraging partnerships and cooperation within the Federal Government, across levels of government, and between the Government and private institutions.**

Open Government Design Principles

- Share As Much Data As Possible
- Access to Authoritative Source Data
- Access to Current Data
- Make Data Widely Accessible
- Ensure Data is Machine Readable
- Use Open Formats

How has the Geospatial Community
worked at this goal?

Geospatial Services Architecture



File Transfer



A



Geospatial One-Stop (GOS)

- Provide online discovery and access to geospatial resources (data, applications, web sites) across all levels of government
- Develop standards and models to support the exchange of data and facilitate web services
- Promote partnerships among Federal, state, and local agencies
- Reduce redundant investments and facilitate cost sharing

**Make it easier, faster and less expensive
to find and use geospatial data**



Challenges for the roles of metadata

- From understanding the data to enabling consumption
 - Information about the data set (source, accuracy, intended use etc.)
 - Enable search and discovery
 - Support an inventory view
 - Enable access and consumption

Obstacles encountered

- Agency commitment in a voluntary NSDI
- Priorities varied among partners
- Auto Classification of Data
- Open specifications – specific enough?
- Movement of data

Lessons Learned

- **Quality of Metadata Important**
- **Easy tools needed to encourage participation**
- **Web Map Services must be available for long periods of time**
- **Maturity of Standards vs. Operational Demands**
- **Text + Geospatial Search tricky**

Lessons Learned

- It's not about the website
- Groups should be self-forming
- Facilitate access to National Federal Sources

**Good Concepts and Functions
Implemented in GOS that have
relevancy moving forward**

Search Results Visualization

Gos 2.2 search

Search Results

 [Refine Search](#) [Download Results](#)

1 2 3 4 5 6 7 8 9 10 >

Selected Types [Live Data and Maps](#) [Downloadable Data](#) [Offline Data Documents](#) [Applications](#) [Geographic Services](#) [Clearinghouses](#) [Geographic Activities](#)

Results 1 - 12 of more than 500 records (0.697 seconds)

- Tampa Bay CUES**
Tampa Bay Comprehensive Urban Ecosystem Studies is a prototype implementation of The National Map for the Tampa Bay watershed to demonstrate the depth of scientific analysis and discovery that is possible when a fully-populated, multi-scale geographic...
- Hillsborough County (FL) GIS - Public Viewer**
This system offers information covering more than 1,000 square miles that make up the County including: A graphical representation of land, water and infrastructure environments. Descriptive data about the information displayed. Contact addresses and...
Publishing Organization: Hillsborough County GIS
- Critical Infrastructure (DEMO)**
Critical Infrastructure in Tampa Fl. This is for demonstration purposes only...
Publishing Organization: Environmental Systems Research Institute
- Palm Beach County (FL) Geospatial viewer**
epzbmaps is a public GIS web mapping service for Palm Beach County, FL.
Publishing Organization: Palm Beach County GIS
- Framework Data from Southwest Florida Regional Planning Council (FL)**
This metadata describes basic information returned to the NSGIC in response to a 1998 Framework Data Survey. This collection represents a Regional organization response. Themes include: transportation features (roads, waterways, airports, ports) col...
Publishing Organization: Southwest Florida Regional Planning Council
- SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT LANDS**
This dataset contains boundaries of Southwest Florida Water Management District acquired and proposed lands.
Publishing Organization: Southwest Florida Water Management District (SWFWMD)
- USGS Tampa Bay Comprehensive Urban Ecosystem Studies (CUES)**
The U.S. Geological Survey supports the Tampa Bay

My Geography

Where: (Geographic Footprint, e.g. Harrison, NY) [Find](#) [More...](#) [Reset](#)



ZOOM IN  ZOOM OUT 

Metadata boundaries Data requests Planned acquisitions

Featured Map Mash-ups

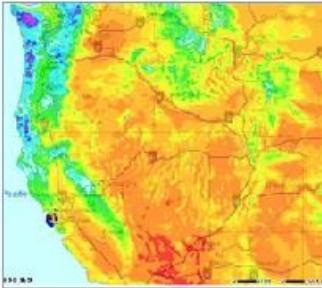
Popular Maps

[US Maps](#) [US State Maps](#) [Regional Maps](#) [Local Maps](#) [Map Stores](#) [About](#) [Discussion](#) [Members](#) [Customize](#)

US Maps



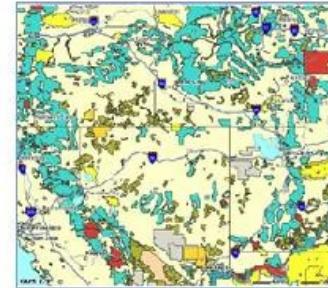
[Basic Base Map](#)



[Climate](#)



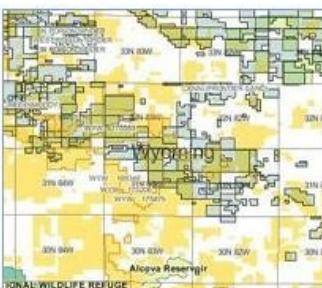
[Coasts](#)



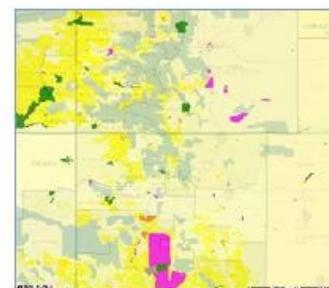
[Conservation](#)



[Environment](#)



[Federal Energy Activities](#)



[Federal Lands](#)



[Geology](#)



[Hazards](#)



[Human Geography](#)

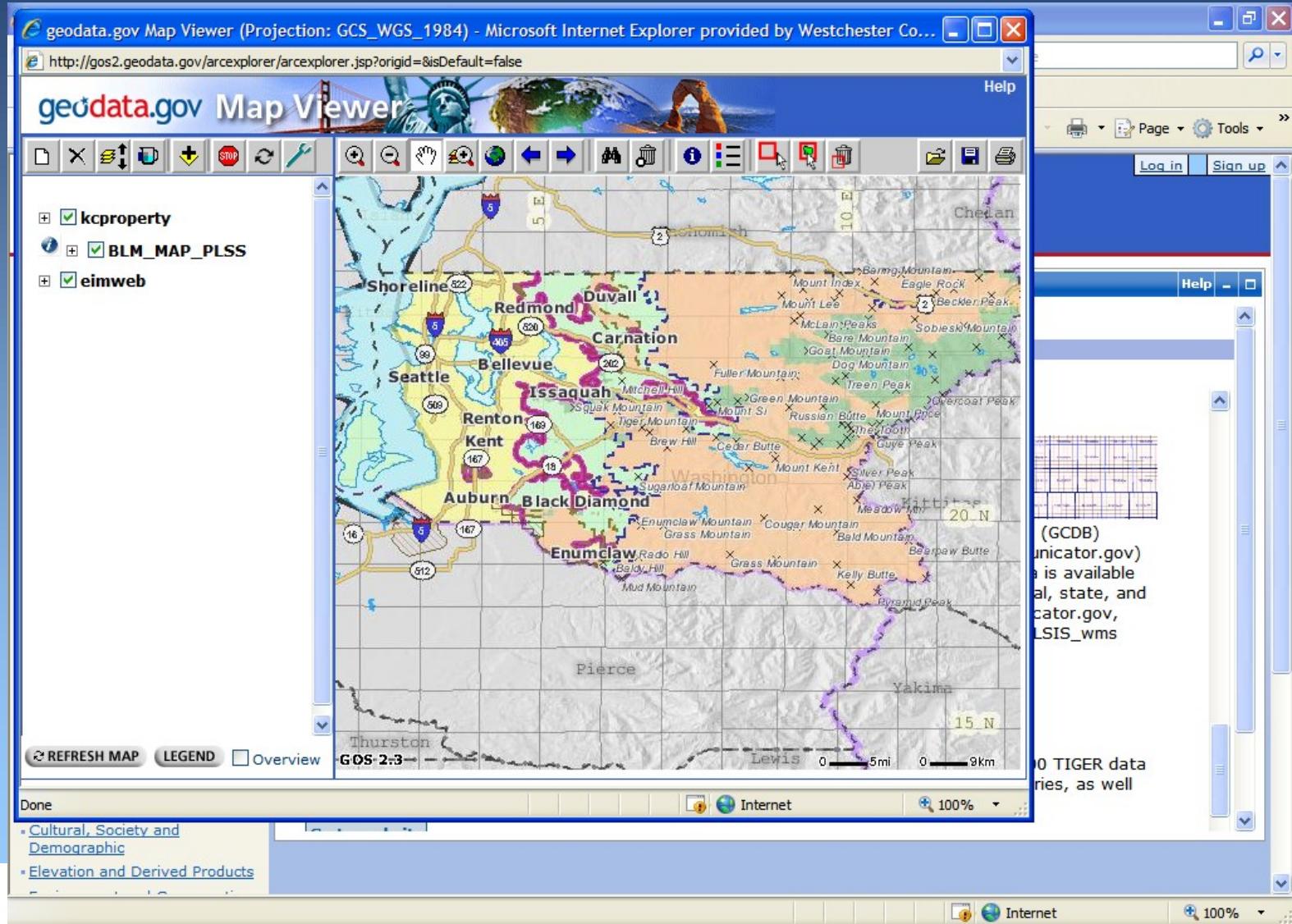


[Hydrology](#)



[National Hydrography Dataset](#)

Mashing-up Federal-State-Local



Facilitate Data Partnerships

The screenshot shows the geodata.gov Marketplace search interface. In the search bar, 'lidar' has been entered. The search results page displays four items related to lidar data:

- LIDAR Elevation Data (2007)**: Laser beach mapping uses a pulsed laser ranging system mounted onboard an aircraft to measure ground elevation and coastal topography. The laser emits laser beams at high frequency and is directed downward at the earth's surface through a port openin...
- Publishing Organization:** National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), NOAA Coastal Services Center (CSC)
- LIDAR or IfSAR elevation collection**: Coverage area will include portions of the U.S. coastal zone (specific location is unknown at this time); Format will be raw elevation points (x, y, z) with ability to grid (binary raster, ASCII raster), according to user specifications; airborne lig...
- Publishing Organization:** NOAA Coastal Services Center
- (NASA) CALIPSO - Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observations**: The CALIPSO satellite was developed to help scientists answer significant questions and provide new information about the effects of clouds and aerosols (airborne particles) on changes in the Earth's climate. Understanding these components will provi...
- Publishing Organization:** Global Change Master Directory
- DIGITAL FLOOD INSURANCE RATE MAP DATABASE, COLLIER COUNTY, FL**: In order to support the National Flood Insurance Program (NFIP) Flood Hazard Mapping Program, FEMA has launched a Map Modernization program to update Flood Insurance Rate Maps (FIRMs) for every county in the nation over the next five years. This plan...
- Publishing Organization:** Federal Emergency Management Agency
- DIGITAL FLOOD INSURANCE RATE MAP DATABASE, LAKE COUNTY, FL**: In order to support the National Flood Insurance Program (NFIP) Flood Hazard Mapping Program, FEMA has launched a Map Modernization program to update Flood Insurance Rate Maps (FIRMs) for every county in the nation over the next five years. This plan...
- Publishing Organization:** Federal Emergency Management Agency

The left sidebar includes filters for Content Type, Publisher, Sort By, and My Geography (set to Florida). A map of Florida highlights various data requests and planned acquisitions. The bottom navigation bar includes links for USA.gov, Privacy, Policies, FOIA, DOI, USGS, Accessibility, Contact Us, and FAQ.

- Discover New Data Acquisition Plans
- Post Data Requests
- Contact Owners – build partnerships and leverage investments

Notifications About New Data

The screenshot shows the Google Earth application interface. On the left, the 'Places' panel lists several recent updates, including 'Geospatial One-Stop GeoRSS' and 'LIDAR data collection data of field activity 08LTS02 (A-2-08-LA) in Lower Atchafalaya Basin, LA from 12/08/2008 to 12/16/2008'. The main map view displays a coastal area with several red polygon overlays representing LIDAR data collection areas. A callout box provides details about the specific field activity. Below the map, a browser window shows the geodata.gov website with the same information.

New Memo
Dear R...
Your s...
You may...
GeoRSS
<http://ouse.gov>
KML
<http://ouse.gov>
Regards:
The ge...
Air 12,...
Nat...
from D...
LID...
Data...
Unit...
Sci...
Down...
LID...
12,...
Unit...
data...
Down...
Air ...

Places Add Content

- Geospatial One-Stop GeoRSS
- Most recently updated metadata documents:
 - ✓ Airborne Topographic data of field activity A-3-90-EC in North East and Green Lakes from 12/01/1998 to 12/06/1998
 - ✓ National Oceanic and Atmospheric Administration LIDAR data of field activity 08LTS02 (A-3-08-LA) in Cheneleaten Islands, LA, Santa Rosa Island, FL, and Dauphin Island, AL from 08/23/2008 to 08/30/2008
 - ✓ United States Geological Survey, Saint Petersburg, LIDAR data collection data of field activity 08LTS02 (A-2-08-LA) in Lower Atchafalaya Basin, LA from 12/08/2008 to 12/16/2008

Layers View: Core

- Primary Database
 - Geographic Web
 - Roads
 - 3D Buildings
 - Traffic
 - Borders and Labels
 - Weather
 - Gallery
 - Global Awareness
 - Places of Interest
 - More
 - Terrain

Pointer 32°29'59.99" N 115°00'00.01" W elev. 728 ft

URL: http://gos2.geodata.gov/E-FWDiscoveryServlet?uid=%7B00CE0497-91FC-5C73-FC55-2F30B35E296A%7D&transform=metadata_to_html_file.xsl

geodata.gov U.S. MAPS & DATA Your One Stop for Federal, State & Local Geographic Data

LIDAR data collection data of field activity 08LTS02 (A-2-08-LA) in Lower Atchafalaya Basin, LA from 12/08/2008 to 12/16/2008

Content Citation
Title:LIDAR data collection data of field activity 08LTS02 (A-2-08-LA) in Lower Atchafalaya Basin, LA from 12/08/2008 to 12/16/2008
Content Type:Downloadable Data
Publishing Organization:U.S. Geological Survey (USGS), Coastal and Marine Geology (CMG)
Publication Date:2009/11/27
LIDAR data collection data of field activity 08LTS02 (A-2-08-LA) in Lower Atchafalaya Basin, LA from 12/08/2008 to 12/16/2008

© 2007 Google™ Eye alt 5521.16 mi

Enable Web Map Services for a variety of viewers

The image shows a dual-screen setup. The left screen displays the geodata.gov search results page, and the right screen shows a map viewer application.

geodata.gov Search Results:

- Selected Types: Live Data and Maps, Downloadable Data, Offline Data, Documents, Applications, Geographic Services, Clearinghouses, Geographic Activities.
- Results 13 - 23 of 23 records (0.526 seconds)
- Atlas of the Cryosphere: Southern Hemisphere Web Coverage Service (WCS)**
 - The National Snow and Ice Data Center (NSIDC) Atlas of the Cryosphere is a map server that provides data and information pertinent to the frozen regions of Earth, including monthly climatologies of sea ice extent and concentration, snow cover extent....
 - Publishing Organization:** National Snow and Ice Data Center
 - Atlas of the Cryosphere: Southern Hemisphere Web Map Service (WMS)**
 - View Summary
 - View Full Metadata
 - Go To Website
 - Add to Map
 - Add to Globe** (highlighted with a red arrow)
 - Contact Owner
 - Zoom To
 - Close Menu
- WaterWetlands NWI**
 - VCGI downloaded NWI quads from the US FWS web site and reprojected to VCS NAD83. NWI digital data files are records of wetlands location and classification as developed by the U.S. Fish &...

Map Viewer Application:

- Shows a globe view of the Southern Hemisphere with various data layers overlaid, including sea ice extent and concentration.
- UI elements include a compass rose, zoom controls (+, -, fit), and a status bar at the bottom.
- Bottom status bar text: "Image NASA © 2007 Europa Technologies © 2007 Tele Atlas Image © 2007 TerraMetrics Streaming ||||| 100%" and "Eye alt 9372.30 mi".
- Google logo watermark in the bottom right corner.

Availability of Map Services

geodata.gov
U.S. MAPS & DATA

Your One Stop for Federal,
State & Local Geographic Data

Log in

Home Search Maps Marketplace Communities Statistics Help Center

Search geodata.gov

Search Results

Refine Search Reset Download Results

1 2 3 >

Records 1 to 12 of 34 documents (25.374 seconds)

Publishing Organization: U.S. Geological Survey

San Diego Satellite Imagery
This map service presents a series of satellite imagery from Space Imaging for the San Diego, California. The map service includes 180, 25, 4, and 1 meter resolution per pixel imagery for the San Diego area. Zoom in to the San Diego area to see the h...
Publishing Organization: ESRI Inc.

California Roads (BTS)
An auto-generated metadata file for a single layer in The National Map (see <http://nationalmap.gov>). The first onlink reference is an OGC-WMS getCapabilities request suitable for binding with the map service that provides this layer. The second onlin...
Publishing Organization: USGS Catalog Support Unit

NRL GIDB Portal: California DOT Maps
This is a data source provided by NRL in WMS format. This data may originate at NRL but much more likely it is a remote data server that NRL's GIDB connects to via the Internet using various protocols. The GIDB server provides adapters such as WMS to...
Publishing Organization: Naval Research Laboratory (Stennis)

'MarineMapper' - Pacific Coast Groundfish Essential Fish Habitat (EFH) Map service
Pacific Coast Groundfish EFH web mapping service is a cooperative project of the Pacific States Marine Fisheries Commission (PSMFC), NOAA Fisheries, and the Pacific Fishery Management Council. The service presents data developed and compiled to suppo...
Publishing Organization: Pacific States Marine Fisheries Commission

'MarineMapper' - Pacific Coast Groundfish Essential Fish Habitat (EFH) Map service
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Publishing Organization: Pacific States Marine Fisheries Commission

Managed Areas Database
This map service presents the Managed Area Database created by the Remote Sensing Research Unit (RSRU), University of California at Santa Barbara. MAD is a comprehensive GIS database for the conterminous United States which includes all types of mana...
Managed Areas Database (Virtual Campus)
This map service presents the Managed Area Database created by the Remote Sensing Research Unit (RSRU), University of California at Santa Barbara. MAD is a comprehensive GIS database for the conterminous United States which includes all types of

Search Criteria

What: California
Search in: geodata.gov
Content Type: Live Data and Maps
Sort By: Relevance
Intersects: N:42.47, S:32.06, W:-126.19, E:-112.3

My Geography

Where: (Geographic Footprint, e.g. Harrison, NY)

Find More... Reset

California

ZOOM IN ZOOM OUT

Pacific Ocean

0 147 mi

Metadata boundaries Data requests Planned acquisitions



Report - Windows Internet Explorer
<http://registry.gsdi.org/statuschecker/ServiceDetail.php?ClientId={5F49560A-4293-459D-A2BD-7074E5953EEE}>

 Federal Geographic Data Committee Service Status Checker

[Home](#) | [Print Report](#) | [Help](#)

Service Analysis Report for 12-30-08

GOS Service Registration Information

The following service information was registered through the Geospatial One-Stop (GOS) portal.

ID: {5F49560A-4293-459D-A2BD-7074E5953EEE}
 Name: Kentucky GAP Land Stewardship (Public Lands)

Registered Service: <http://kygeonet.ky.gov>

Service Type: IMAGE
 Service Name: kypublands
 Service Owner: [View](#)
 Service Metadata: [View](#) | [View XML \(publish info\)](#)

Service Report Card

| | | |
|--------------------|-----------------|------------------------|
| | | 99.98% |
| Valid Registration | GetImage Status | GetImage Score (0-100) |

Registration Validation

The following test determines if the registered service URL is valid or invalid.

Registered Service: <http://kygeonet.ky.gov>
 This is a valid registration. An Image service must provide a service URL and service name.

Daily Test Results

The objective of an Image service is to provide map images to clients. For this reason, the GetImage test is the main operation tested and scored.

| TEST | STATUS | INTERACTIVE TEST | RESPONSE | SCORE(0-100) |
|-----------|--------|--------------------------|----------|--------------|
| GetImage: | | Test Now | 0.22 sec | 99.98% |

The following table summarizes the full suite of tests performed on this service:

| TEST | STATUS | INTERACTIVE TEST | ERROR ID |
|-----------------|--------|--------------------------|----------|
| HTTP: | | Test Now | - |
| GetServiceInfo: | | Test Now | - |
| GetImage: | | Test Now | - |

Interactive Map Layer Viewer



Click [here](#) to View all Layers from this Service

Detailed Report from FGDC

- **Report Information:**
 - GOS Registration Information
 - Health Test Results
 - Reliability Rating
 - Responsiveness Rating
 - Potential Service Issues
 - Recommendations

Data catalog as a Web Service



Customizable Search Widget

The Delaware Geographic Data Committee (DGDC) - Windows Internet Explorer
http://stateplanning.delaware.gov/dgdc/catalogue.shtml

ArcGIS Resource Center | The Delaware Geographi... | Governor | General Assembly | Courts | Elected Officials | State Agencies

Delaware.gov | Text Only | RAINBOW | PHOTO BY STEVEN LONG

Your Search... SEARCH Phone Numbers Mobile Help AA Size Print Email

Office of Management and Budget : Budget Development, Planning, and Administration : Office of State Planning Coordination

HOME

SERVICES

- Livable Delaware
- Equity in Agriculture
- State Strategies
- The PLUS Process
- Municipal Annexation
- Regional Planning
 - S. New Castle Co.
 - Planning Assistance
 - From OSPC
 - From UD
 - Grant Funding
 - Geospatial Information
 - GIS Coordination
 - GIS Data Catalogue
 - GIS Data Resources
 - The DataMIL
 - GIS Data Inventory
 - Demographics
 - 2010 Census
 - Census Data Center
 - Pop. Projections
 - State Budgeting
 - News Services

INFORMATION

A Delaware Spatial Data Catalogue

(BETA) Search for Delaware Data on the GeoSpatial OneStop

The widget below is still in beta testing, metadata has been published on the fed to limit searches to metadata for GIS data shape, however, you may see some res

Search geodata.gov - BETA

Find:

Map and Aerial Photo Inventory

Delaware Census 2000 SF1 ArcIMS Service

Delaware Census 2000 SF1 WMS Service

Delaware 1954 Orthophotography

Delaware Orthophotography Tile Index

State Boundary Monument Data Base

USGS Delaware Roads

Digital Line Graph, Hydrography Layer (Quad-based; 1:24,000-scale)

USGS Delaware Contours

This is a test of this new widget, so please keep working with the Geospatial OneStop.

A Listing by Data Categories

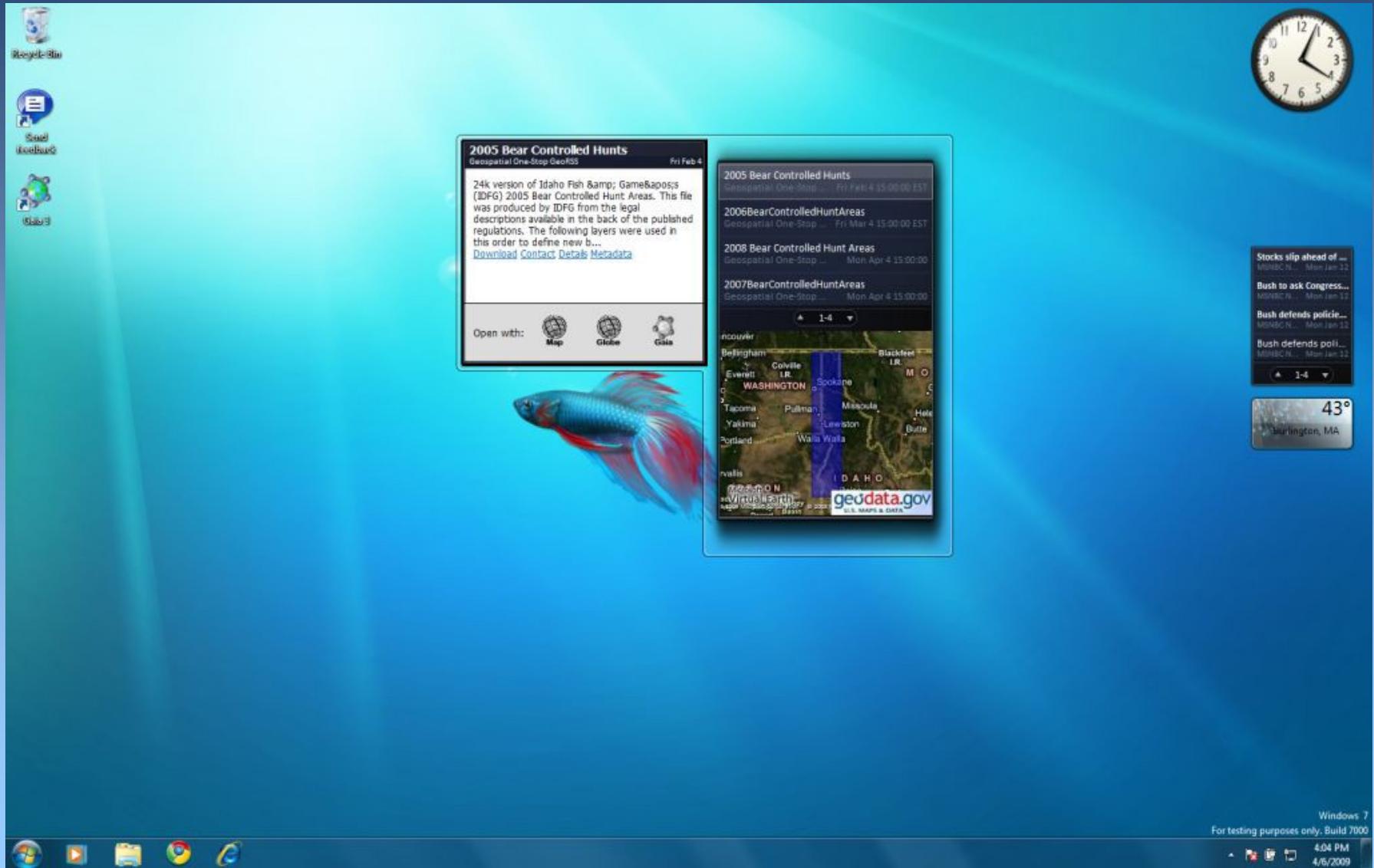
This is a catalogue of some of the key data sets that are found on the Delaware portion of the website.

For each data set, we include a title, a description (where available) to metadata, a data web site, and direct data download. Where we don't have an appropriate link, you will find yourself on our "oops" page.

This collection is based on searches of the Inventory and of GOS and on our knowledge of the data resources of the state. We're not perfect, however, and we do miss things. If there is data that you are aware of that is not listed here, please contact Mike Mahaffie at mike.mahaffie@state.de.us

http://stateplanning.delaware.gov/dgdc/catalogue.shtml#PageContent

Dashboard for Windows 7



Workflows



Integrating with Data.gov



Geo & Data.gov – What's Next?





Open Government Geospatial Enablement

*Jim Barrett –data.gov PMO
November 15, 2010*

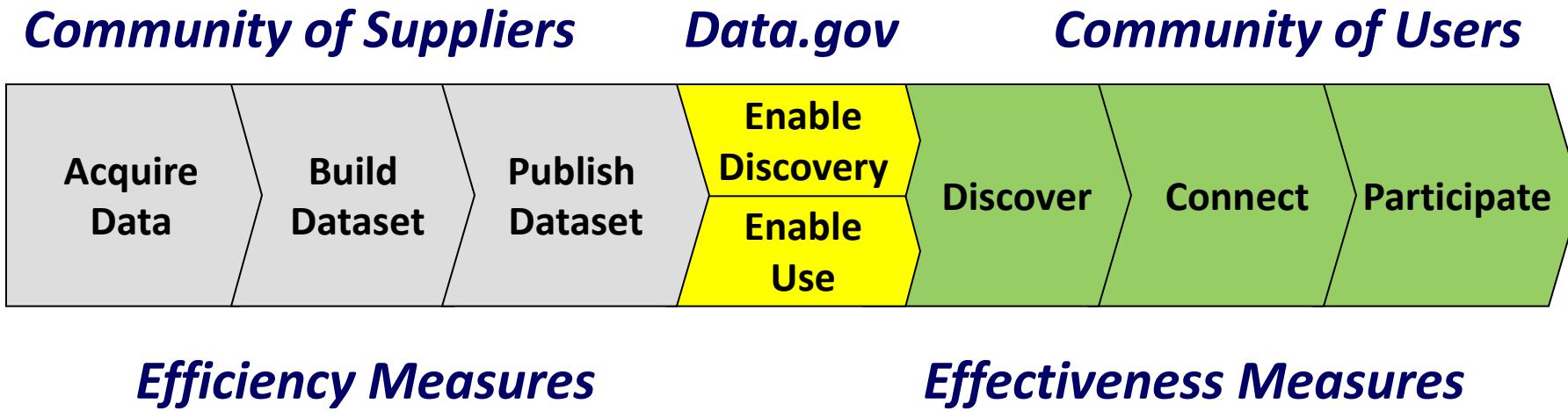


Outline

- Data Supply Issues
- Planning for geospatial improvements to data.gov
 - Catalog
 - Data Management
 - Platform
- Importance and Value



Data.gov - Information Value Chain



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Architecture Principles – data.gov

- **Increase in data demand and user recognition will incentivize suppliers**
 - Increase in volume of contributions
 - Improvements in the quality and interoperability of the data asset
 - Preclude leveling off of supplier contributions
- **Communities of Use are self organizing and the trend is towards “push” models:**
 - Enable users in their comfort zone
 - Enable thru more powerful search – spatial, federated, services, vocabularies
 - Enable thru - Data Downloads, Interoperable Data and Map Services, open formats
 - Enable thru – Notifications and Syndication
- **Communities of Supply are not self organizing and the trend is towards “pull” models:**
 - Need to identify and develop targeted communications
 - Require strong communication, policy and investment to create buy-in
 - They need solutions that align with their business practices

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Geo - Supply Side Barriers

- Islands of Data – Fragmentation of content
 - Stored locally, shelved or just tucked away
 - Project oriented
 - spatial – temporal – positional accuracy
- Data Supply Chain is still not tapped
 - Incentive to participate?
 - Seen as more work with little benefit
 - Numerous inventories of data not exposed (collections, series, imagery)
- Geodata; especially base data is often duplicative
- Lot of data still not spatially enabled

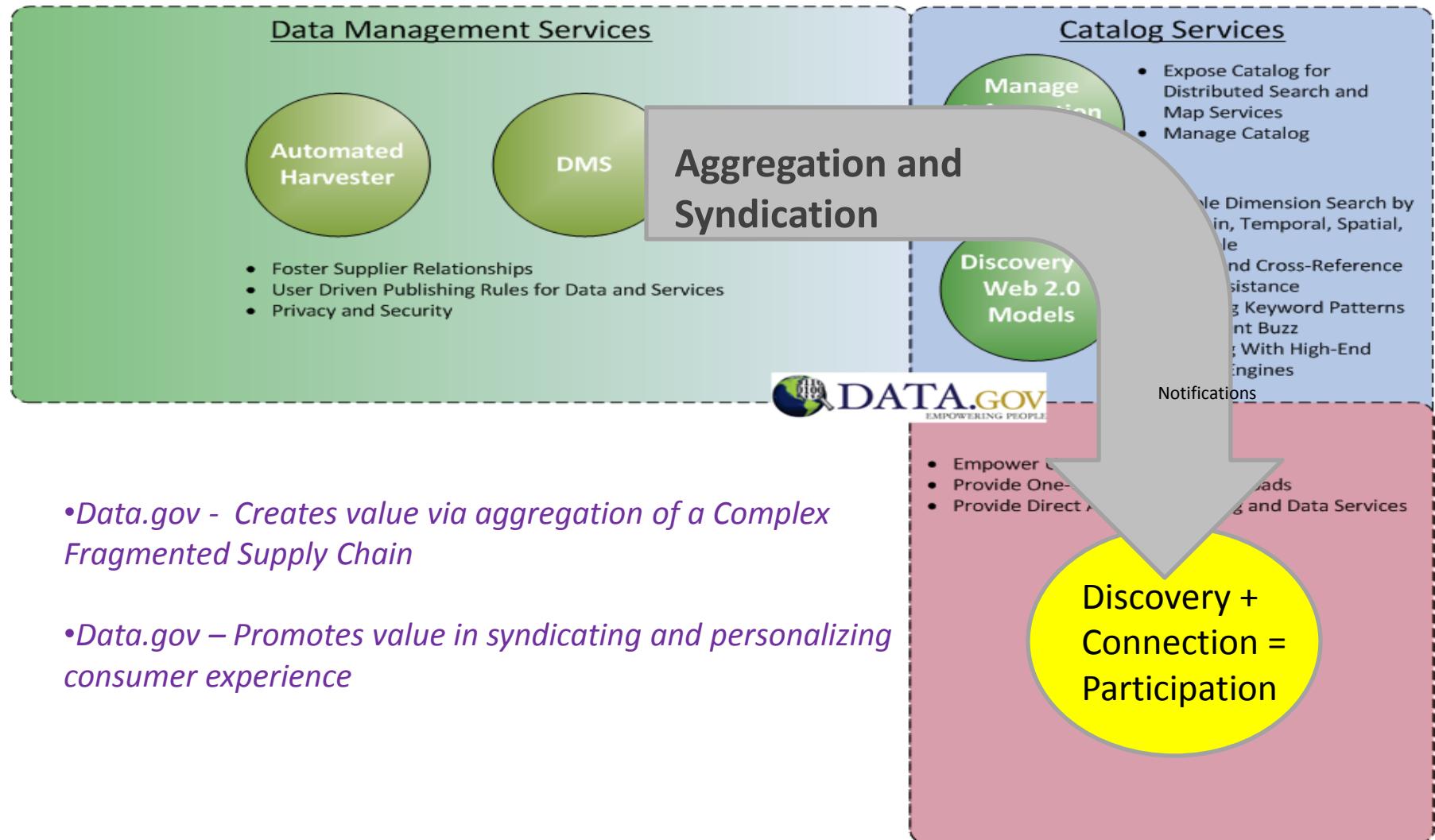


User Perspective:

- Data Concerns:
 - Content quality, positional accuracy, copyright, and trust
 - Can I trust it?
 - Is it the latest the version over a geography?
 - Is it sufficiently described to understand it?
 - Is the data of sufficient positional quality?
 - Am I allowed to reuse the data?
 - If so - What do I need to do?
 - Is it in a usable form?

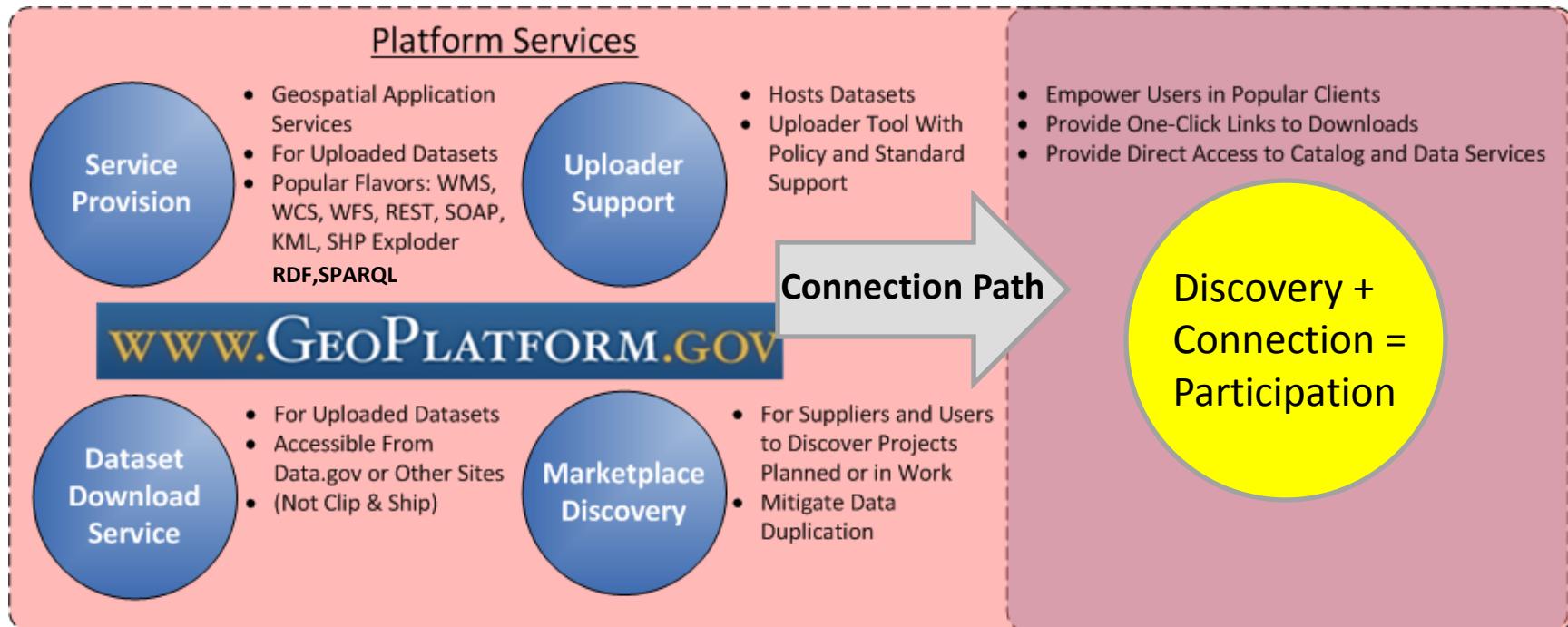


Enabling Dataset Discovery





Enabling Content Use – Platform Planning



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Acquire
Data

Build
Dataset

Publish
Dataset

What is Data.gov building towards?

- Improved Data Management Practices:
 - Ensure privacy and security
 - Ensure supplier participation and *data quality*
 - Organize to collections
- Simplification for Community of Supply
 - Implement automated harvester and reduce manual data management

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Discover

Connect

Participate

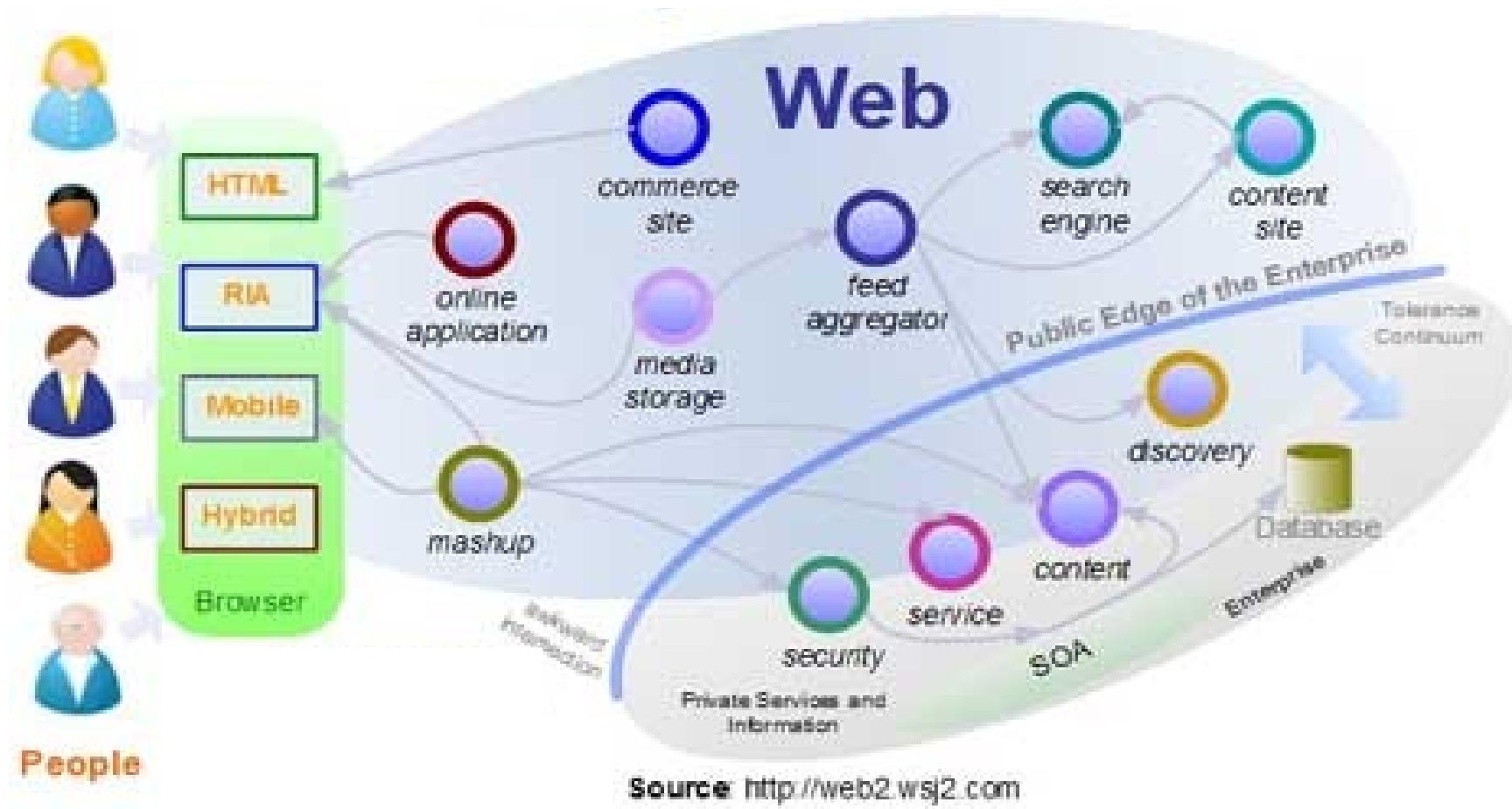
What are we building towards?

- Enable Visualization and Discovery - build data.gov as a service:
 - Catalog as Data service
 - Catalog as a Map Service
 - Open API support i.e. Open Search
 - Catalog - Federated and Distributed Searches
 - Harvestable catalog to support community specific or open government environments
- Spatial Search for Discovery:
 - Development of spatially smart search widget for end user environments to tap data.gov
- Standards based Map Services
 - Published Map Services
 - Enable Map Services for numerous client viewers



Why? Web Ecosystem – Geo

The Mashup Ecosystem:



Source: <http://web2.wsj2.com>



Geo Forces at work – Creative Destruction

- Disruptive Technologies:
 - GPS, Remote sensing technologies, Real time sensing systems and monitoring systems
 - NETWORK – Internet – WWW – Cloud Computing
 - Lightweight application tools
 - Mobile Phones as Platform
- End User Empowerment - ***The individual can now be at the center of the data***
 - Geo-tagging all forms of data – video, pictures, text...
 - CROWD SOURCING – Mapping, Volunteer Geographic Information
- Commoditization of certain geospatial data
- Mashups
- Syndication - GeoRSS, RSS, Atom
- Virtual Reality, 3d Visualization, modeling
- Neogeography: Participatory GIS, Public Participatory GIS, Geo Hackers
- Semantics, RDF, OWL
- Web Services, Map Services
- Location Based Services
- SPATIAL Temporal Relationship – opportunity for pattern discovery, trends
- Imagery Datasets covering the globe



New Challenge

- Discussion used to be 80% of all data has a geospatial reference
 - How do we get that data exposed to make it geo smart?
 - How do we get that data into the enterprise?
 - How do we address the limitations imposed by technology, standards and computing
- Today the percentage is > 90%, its accessible and more prevalent thanks to:
 - Ubiquity of GPS/Smart phones platform
 - Spatial Aggregators of base mapping information and
 - Visualization and mapping tools available to the masses
 - Enterprise Service providers have made geo-coding services available to the masses
 - Routing, Navigation, Location based services
 - Geo-tagging services
- Today's questions is how are we going to get that data out of the organizations / enterprises into a value generating ecosystem that addresses:
 - Freshness
 - Consistency
 - Trust - to support sustainable reliable business practices
 - Reliable services or data exposure
 - Inter domain usability

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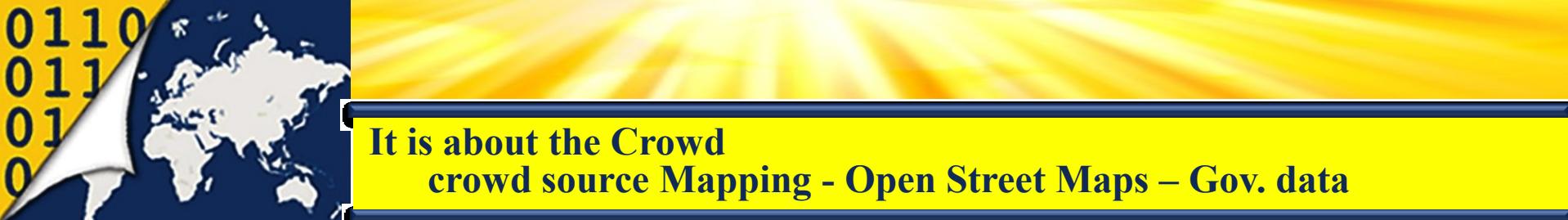


Ecosystem - geo enablement and gov. data

Why is the geospatial supply side so valuable?

It has been and continues to feed the ecosystem

Its a lot about existing government data and services!



It is about the Crowd crowd source Mapping - Open Street Maps – Gov. data

OpenStreetMap - Windows Internet Explorer http://www.openstreetmap.org/ open street maps

File Edit View Favorites Tools Help

OpenStreetMap

View Edit History Export GPS Traces User Diaries log in | sign up

The Free Wiki World Map

Changesets

Changesets within -87.2265,38.8899,-87.1578,38.9283 - W

« Previous | Showing page 1 | Next »

| ID | Saved at | User |
|----------|-------------------------|--------|
| #6330626 | (still editing) | xybot |
| #6327723 | November 09, 2010 13:08 | xylome |
| #6325442 | November 09, 2010 07:41 | mfl |
| #6324995 | November 09, 2010 03:20 | mfl |
| #6324993 | November 09, 2010 01:17 | xybot |
| #6324945 | November 09, 2010 01:22 | mfl |
| #6324917 | November 09, 2010 01:18 | mfl |
| #6324553 | November 09, 2010 01:06 | mfl |
| #6323685 | November 09, 2010 00:38 | xybot |

OpenStreetMap is a free editable map of the whole world. It is made by people like you.

OpenStreetMap allows you to view, edit and use geographical data in a collaborative way from anywhere on Earth.

OpenStreetMap's hosting is kindly supported by the UCL VR Centre and bytemark. Other supporters of the project are listed in the wiki.

Help & Wiki Copyright & License News blog Shop Map key

Search Where am I? Go

Done http://trac.openstreetmap.org/ticket/2501

#6323088 November 08, 2010 22:28 Bilbo fix duplicate data (nodes, ways, relations) -132.524,-35.772,174.370,61.828 (big)
#6322452 November 08, 2010 17:48 Walter Schlägl tagwatch Korrekturen -135.846,-36.186,180.000,69.806 (big)

Internet 100%

http://www.openstreetmap.org/

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**It is Real Time:
Real Time – Health Tracking – Haiti – government data failed!**

The screenshot shows a web-based crisis management portal for Port-au-Prince, Haiti. At the top, the title bar reads "Noura - Portail de gestion de crise - Haiti - Windows Internet Explorer". Below it is a standard browser toolbar with back, forward, and search buttons. The main content area has a blue header bar with the text "SITUATION". On the left, there's a sidebar with a red box containing the warning "Alerte au Choléra!" and the message "Attention! Les messages enregistrés doivent être vérifiés par les responsables". The main map displays the city of Port-au-Prince with several green circular markers representing the origin of messages. One specific location, "Carrefour-Feuilles", is highlighted with a red box and labeled "28". The map also shows various neighborhoods like Fontamara, Savane Salée, and 3ème-Martinissant. A legend on the left side lists categories with corresponding icons: Origine des messages (14739), Sites d'hébergement (641), Hopitaux (135), and Associations de Quartier (25). At the bottom, there are buttons for reporting incidents, calling the center, sending SMS, and reporting online.

| Nombre de messages par catégorie | |
|---|-------|
| Hébergement & Articles non-alimentaires | (674) |
| Alimentation | (422) |
| Education | (317) |

Messages & Alertes **Lieux Critiques**

Les derniers messages postés

[Voir tous les messages ...](#)

12 : 20 - HÉBERGEMENT ET ARTICLE NON ALIMENTAIRE, EDUCATION

Rappel de la demande en fournitures classiques, mobilier, matériaux de construction, assistance financière, cantine scolaire et en réparation du bâtiment de l'école de la direction du Centre Educatif



It is extensible: Geonames – Linked Data – Government data

GeoNames - Windows Internet Explorer

http://www.geonames.org/maps/showOnMap?q=Istanbul

File Edit View Favorites Tools Help

GeoNames

GeoNames Home | Postal Codes | Download / Webservice | About

search Istanbul

Map center : N 41° 36' 40" E 29° 25' 36"

Map Satellite Hybrid Terrain

Istanbul ca. 80 m
[Istanbul, Provincia de Estambul](#)
Turkey » Istanbul
first-order administrative division
population : 11581707
N 41° 2' 6" E 28° 58' 59"
41.03508 / 28.98331
GeoNameId : 745042

zoom move edit history tag delete alternate names
perma link geotree semantic web rdf
part of contains

searching for "Istanbul"

GeoNames Wikipedia

features

- city, village, ...
- mountain, hill, rock, ...
- stream, lake, ...
- country, state, region, ...
- parks, area, ...
- road, railroad
- spot, building, farm
- forest, heath, ...
- undersea

20 mi 50 km

only 50 objects displayed, zoom in or deselect some features

| Name | country | feature | km to center |
|--------------|---------|---|--------------|
| 1 Istanbul | Turkey | seat of a first-order administrative division | 418.82 km |
| 2 Istanbul | Turkey | first-order administrative division | 420.9 km |
| 3 Esenyurt | Turkey | populated place | 423.94 km |
| 4 Selimpasa | Turkey | populated place | 431.03 km |

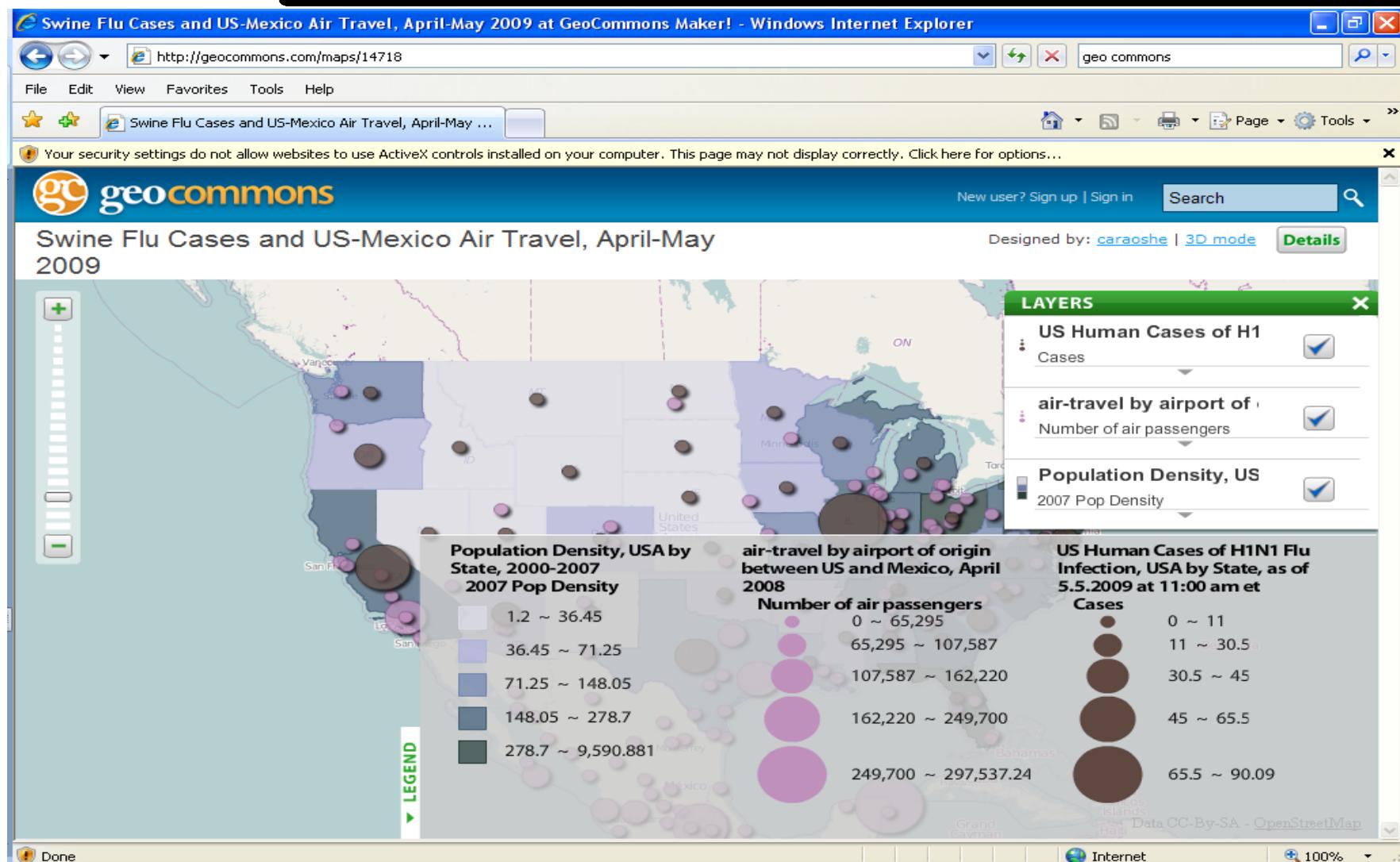
http://www.geonames.org/745042/istanbul.html

Internet 100%

<http://www.geonames.org/maps/showOnMap?q=Istanbul>

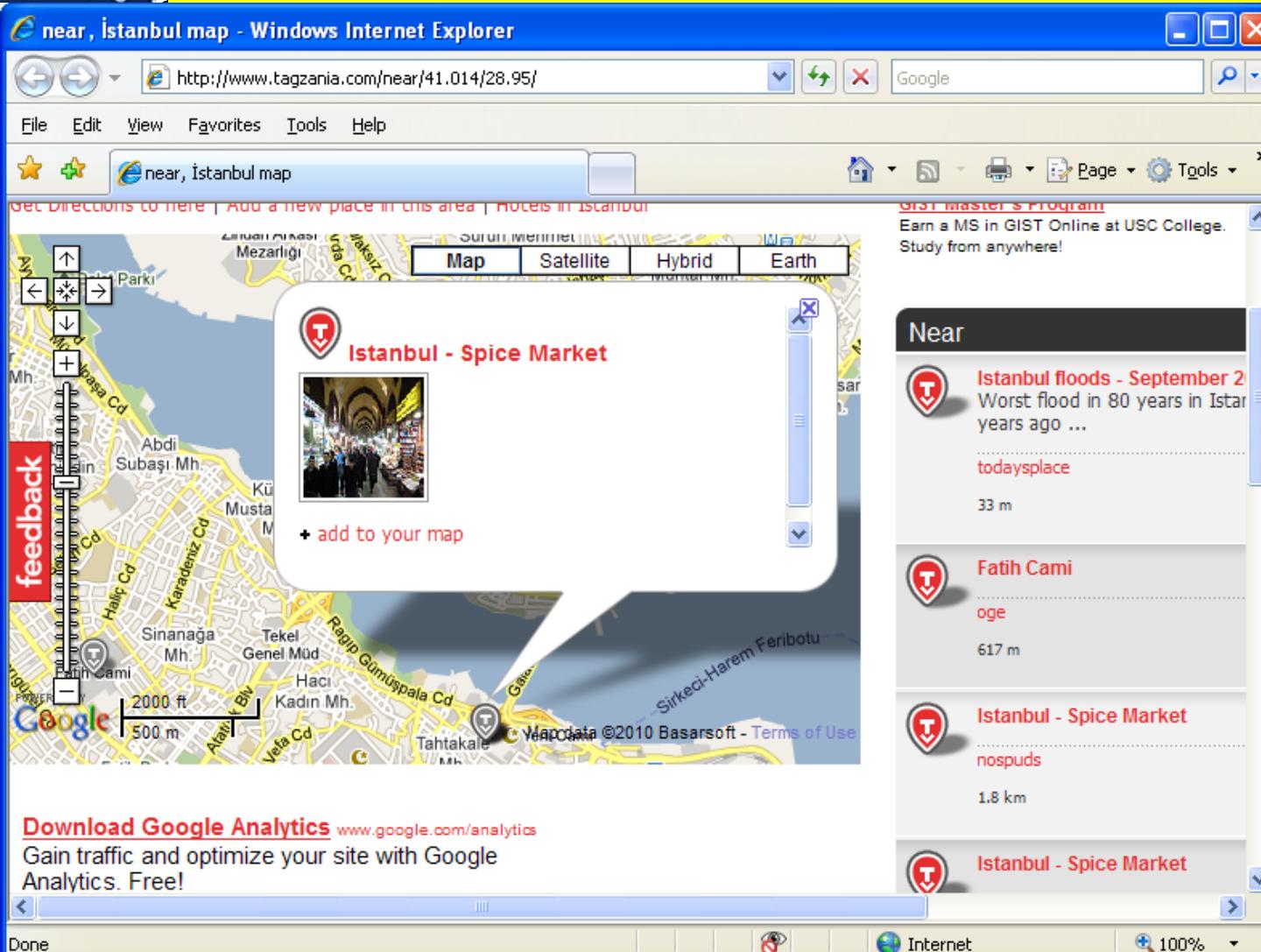


Information/Mapping – Geo Commons – Government Data



<http://geocommons.com/maps/14718>

0110 011 01 0 Tagzania -Personalized Maps - value added data

near, İstanbul map - Windows Internet Explorer
http://www.tagzania.com/near/41.014/28.95/

File Edit View Favorites Tools Help

near, İstanbul map

Get Directions to here | Add a new place in this area | Hotels in İstanbul

Map Satellite Hybrid Earth

Istanbul - Spice Market

+ add to your map

feedback

2000 ft 500 m

Download Google Analytics www.google.com/analytics
Gain traffic and optimize your site with Google Analytics. Free!

GIST Master's Program
Earn a MS in GIST Online at USC College.
Study from anywhere!

Near

- Istanbul Floods - September 2
Worst flood in 80 years in Istan
years ago ...
todaysplace
33 m
- Fatih Cami
oge
617 m
- Istanbul - Spice Market
nospuds
1.8 km
- Istanbul - Spice Market

Done Internet 100%

<http://www.tagzania.com/near/41.014/28.95/>

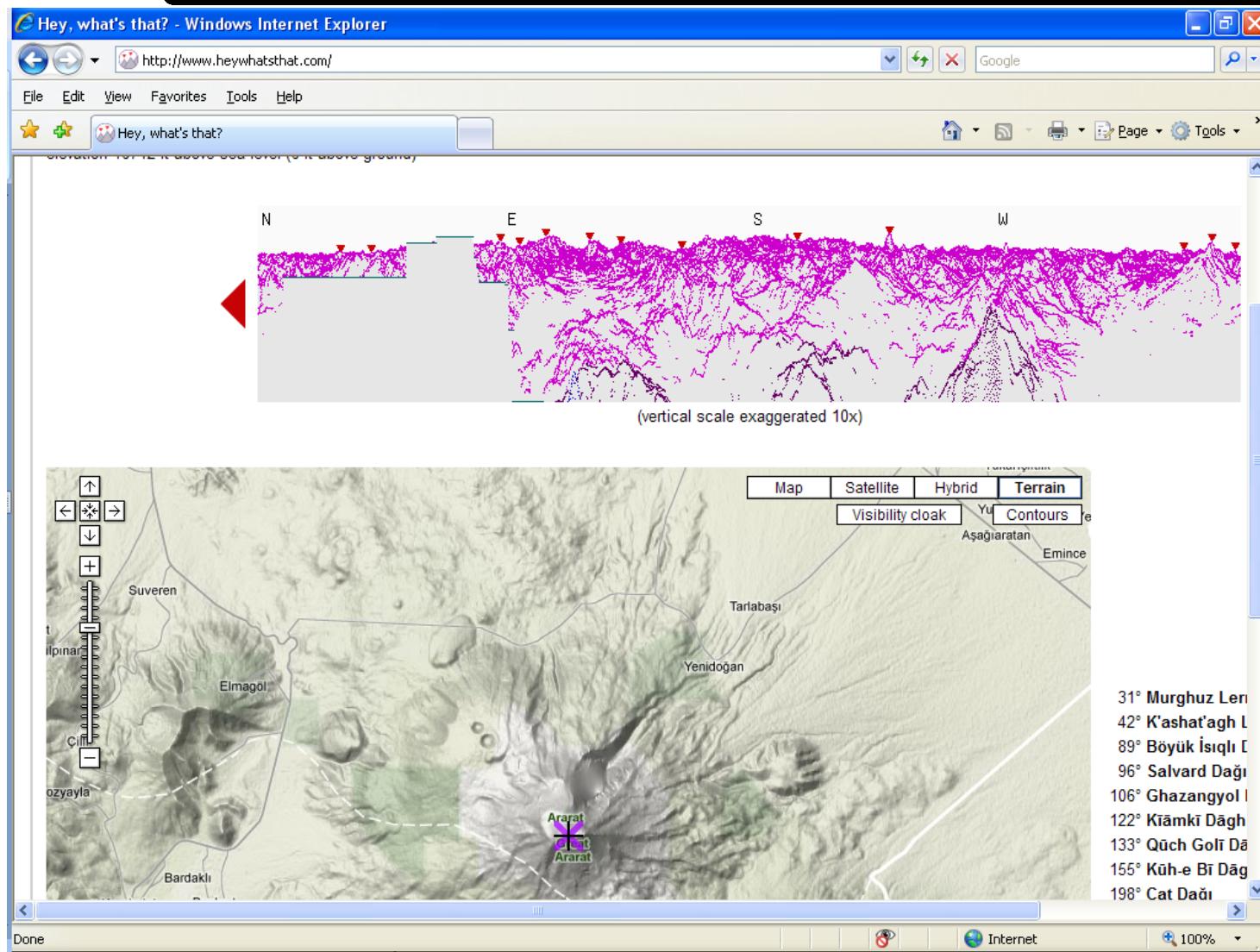


The End

0110
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Its Fun - Heywhatsthat.com – Mt. Ararat



<http://www.heywhatsthat.com/>



It's about the Person: Foursquare – Personalization of Geography

foursquare - Windows Internet Explorer
http://foursquare.com/

File Edit View Favorites Tools Help

Foursquare Already a member? [Log In](#)

Find places, people, tags [SEARCH](#)

**CHECK-IN
FIND YOUR FRIENDS
UNLOCK YOUR CITY**

Foursquare on your phone gives you & your friends new ways of exploring your city. Earn points & unlock badges for discovering new things. [LEARN MORE](#)

JOIN NOW

RECENT ACTIVITY

Erik M. in Burlington, Washington: became the mayor of [Bank of America](#).

Boston Phoenix in Boston, MA: wrote a tip @ [Waterville Valley Resort](#): The two double-black-diamond trails here are mogul runs, so you're either going to be totally stoked or your knees will hate you by lunchtime.

Carolyn G. in Atlantic City, NJ: unlocked the '[Superstar](#)' badge.

GET IT NOW

iPhone →
BlackBerry →
ANDROID →
palm →

-Done Internet 100%



Names Tree Structure – Gov data

GeoTree - Windows Internet Explorer

http://geotree.geonames.org/745042/

File Edit View Favorites Tools Help

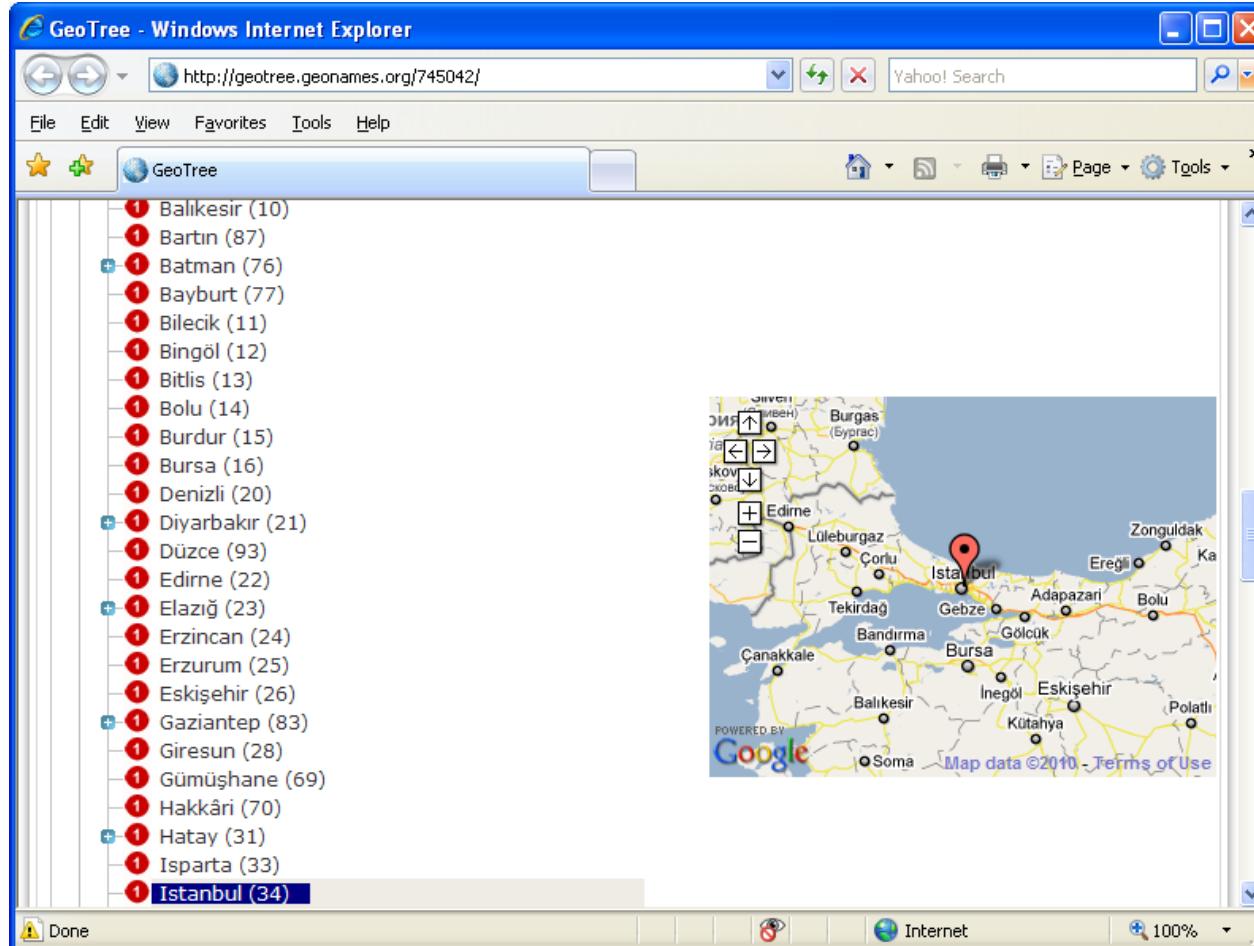
GeoTree

Balikesir (10)
Bartin (87)
Batman (76)
Bayburt (77)
Bilecik (11)
Bingöl (12)
Bitlis (13)
Bolu (14)
Burdur (15)
Bursa (16)
Denizli (20)
Diyarbakir (21)
Düzce (93)
Edirne (22)
Elazığ (23)
Erzincan (24)
Erzurum (25)
Eskişehir (26)
Gaziantep (83)
Giresun (28)
Gümüşhane (69)
Hakkâri (70)
Hatay (31)
Isparta (33)
Istanbul (34)

Burgas (Бургас)
Edirne
Lüleburgaz
Çorlu
Tekirdağ
Gebze
İstanbul
Zonguldak
Adapazarı
Bolu
Çanakkale
Bandırma
Balıkesir
İnegöl
Eskişehir
Polatlı
Kütahya
Soma
Gölcük

POWERED BY Google Map data ©2010 - Terms of Use

Done Internet 100%



<http://geotree.geonames.org/745042/>



It is flexible: Mashups- ArcGIS.com Gov. Data

ArcGIS - My Map - Windows Internet Explorer

http://www.arcgis.com/home/webmap/viewer.html

File Edit View Favorites Tools Help

ArcGIS - My Map

New Map ArcGIS.com Home Help Sign In

Details Add Identify Basemap Save Share Print Mt Shasta

Search for layers to add

Find: hazards Go

In: ArcGIS Online

What kind of layers can I add?

38 results found

- Environment Data (Washington DC - by mcrossett Add)
- California Earthquake Hazards (with by toiyabe Remove)
- NHSS Weather - USA Weather Warn by Federal_User_Community Add
- US Weather Watches & Warnings by bszukalski Add
- Pennsylvania Department of Environ by PASDA Add
- California Tsunami Risk by toiyabe Add
- California Flood Hazards (with base by toiyabe Remove)
- Wyoming Earthquake Database

Done Adding Layers

Esri.com . Terms of Use . Privacy
Contact Us . Report Abuse

bing

Identified Features (1)

Shasta
Layer: GVP_Holocene Volcanoes / Holocene Volcanoes

Internet 100%

<http://www.arcgis.com/home/webmap/viewer.html>



Map Tube: Digital Cartography – Gov. Data

MapTube Map - Windows Internet Explorer

http://www.maptube.org/map.aspx?s=DLHLGAYxgMl8ClwscscmcClwscscECwKXByxyx

File Edit View Favorites Tools Help

MapTube Map

home about login search help casa

KML Map Satellite Terrain

Link to this map

MAPTUBE
a place to put maps

English Population

<50
51 - 100
101 - 150
151 - 250
> 251

more information

51 - 100
101 - 150
151 - 250
> 251

more information

search the map Search

Map data ©2010 Google, Tele Atlas Terms of Use

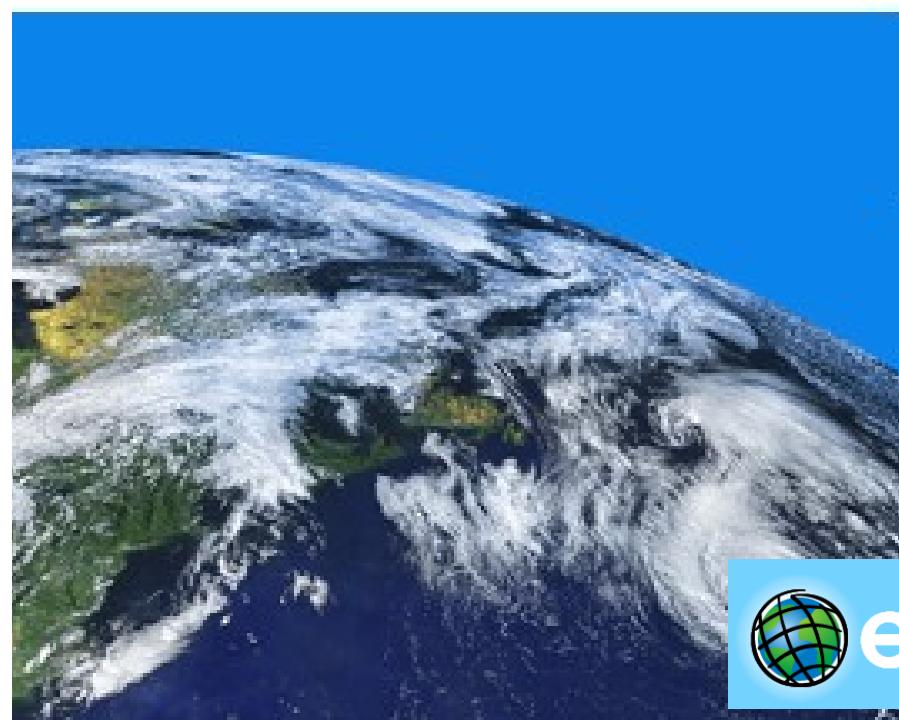
Internet 100%

<http://www.maptube.org/map.aspx?s=DLHLGAYxgMI8ClwcscscmcClwcscscECwKXByxyx>



Creating Geospatial Apps

In The Context of Open Data

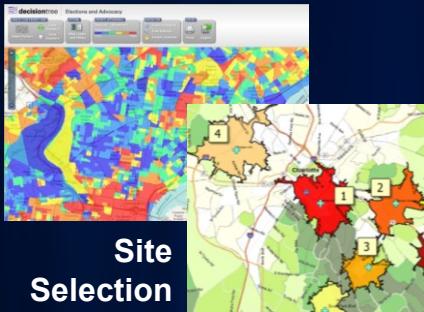


The image features a large, abstract black brushstroke graphic on the left side, partially obscuring a map of a coastal region with a green gradient. The main title "Creating Geospatial Apps" is centered in a light blue header bar, and the subtitle "In The Context of Open Data" is below it in a dark blue section. At the bottom right, the Esri logo is displayed, consisting of a globe icon and the word "esri".

GIS Is Already Successful In Government

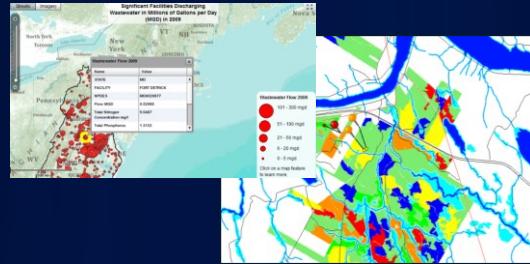
Thousands of Systems - Improving How We Manage And Make Decisions

Socio/Economic Analysis

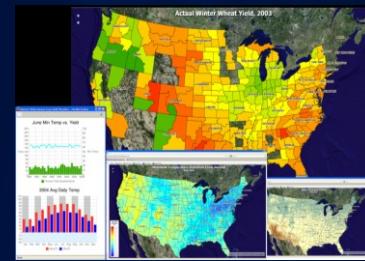


Site Selection

Environmental Management



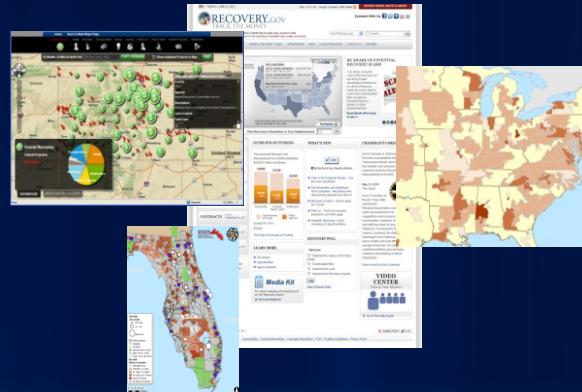
Agriculture



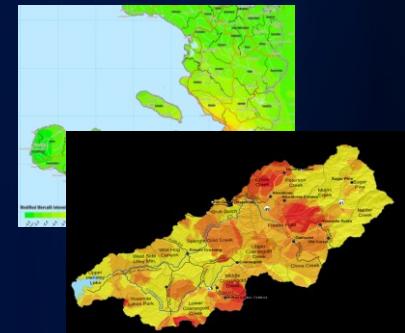
Public Housing and Social Risk



Transparency & Accountability



Disaster Response



*Creating An Enormous Repository Of Geographic Data . . .
. . . A New Type Of Societal Infrastructure*

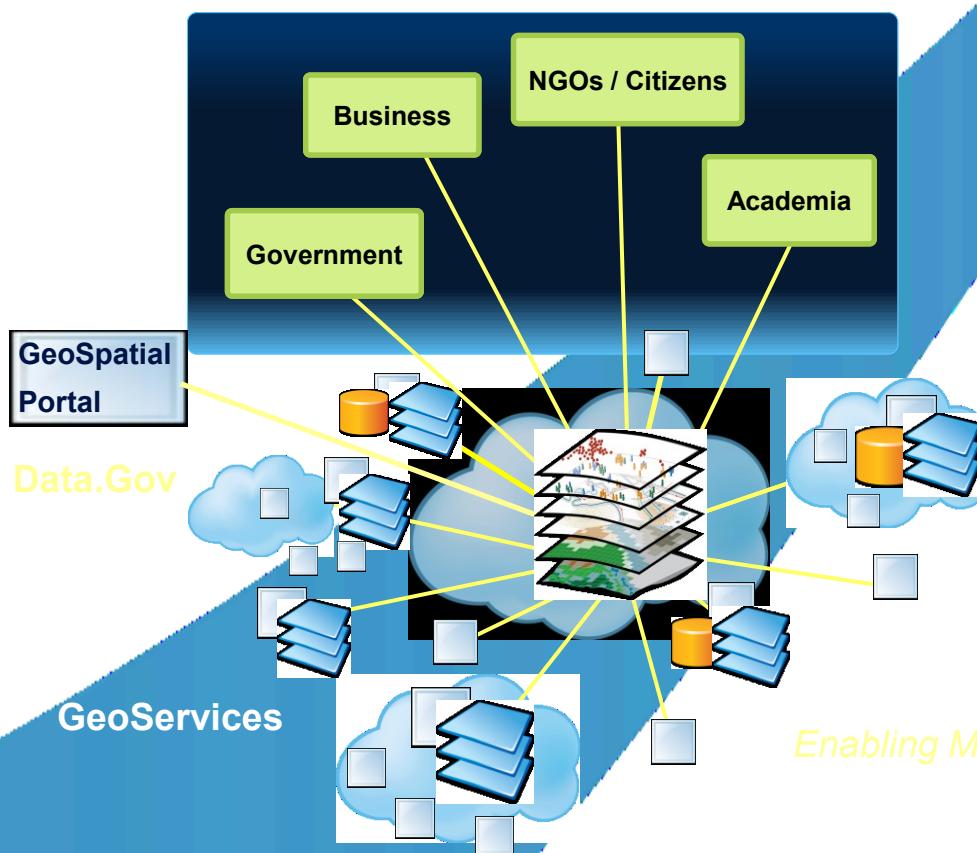
Many Forces Are Converging

Enabling a Pervasive Geospatial Platform



... Opening Our World to Everyone

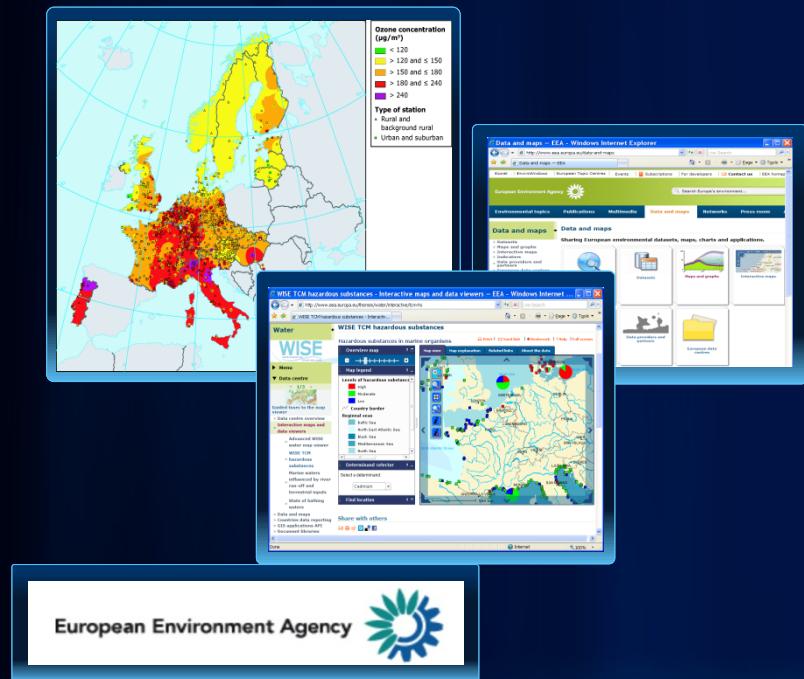
A Distributed Network of Data and Services . . .



*Enabling Many New Types of Applications . . .
... Bringing GIS to Everyone*

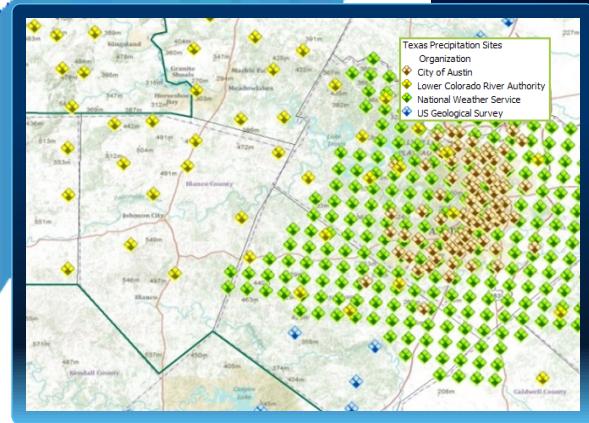
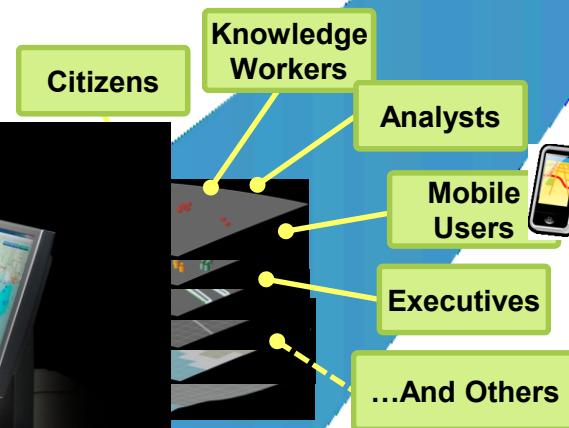
This Is Already Being Implemented In Many Countries

Singapore



European Environment Agency

Creating Geographic Knowledge and Making it Available

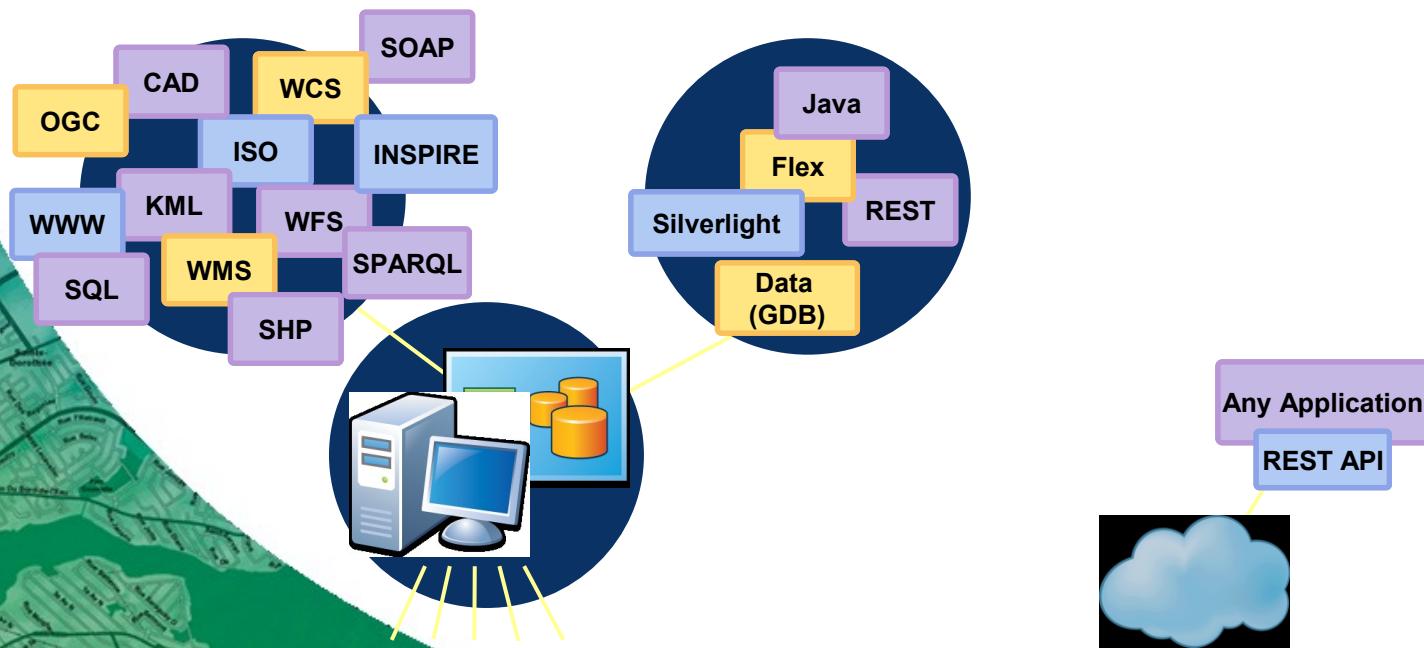


Real Time Multi Sensor Integration

... Using Maps as a Language to Engage Everybody

Open And Interoperable Standards Are Important

Expanding Access and Ensuring Integration



Creating a Vibrant Open Data Community

Open Policies And File Sharing Are Not Enough . . .

Publishing Geo-Services

Data Integration

Semantic Integration

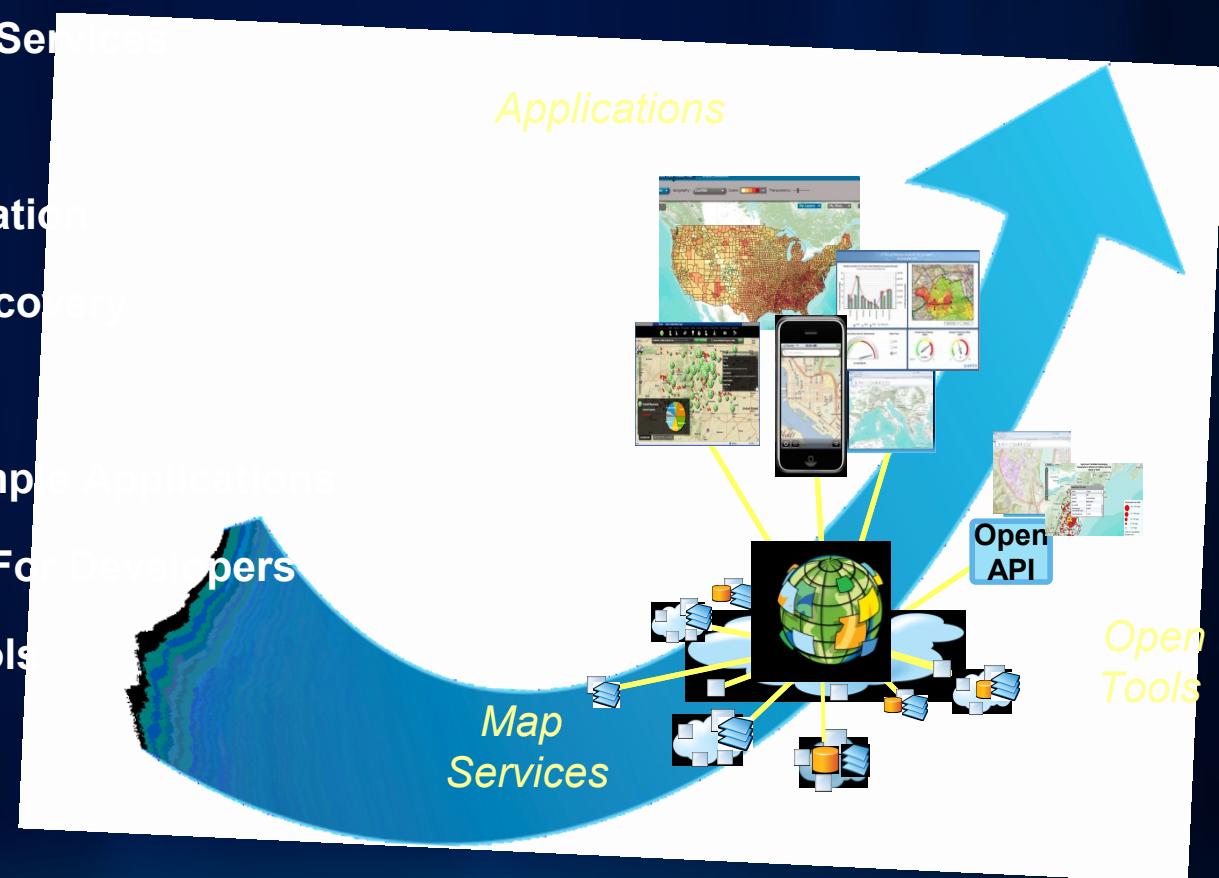
Sharing and Discovery

Software

Free and Simple Applications

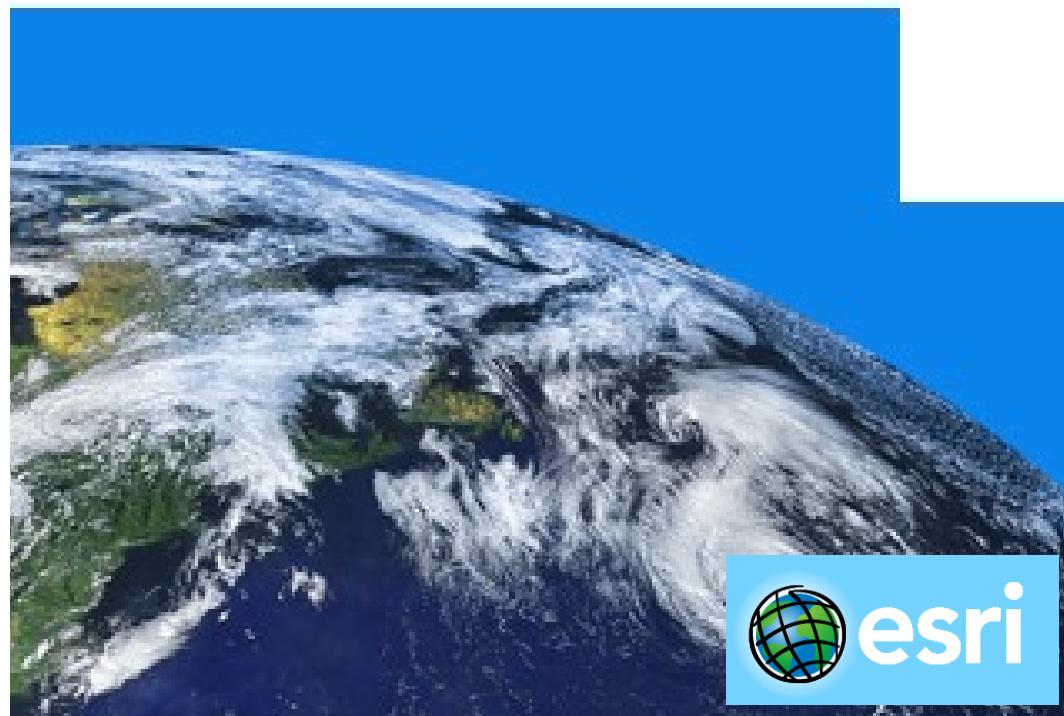
Open Tools For Developers

Full GIS Tools





Demonstrations



Take Away Points

What have you seen?