Spatially Enabling Government: The US Geospatial Platform geoplatform.gov

Tenth United Nations Regional Cartographic Conference for the Americas
Tuesday, August 20th, 2013

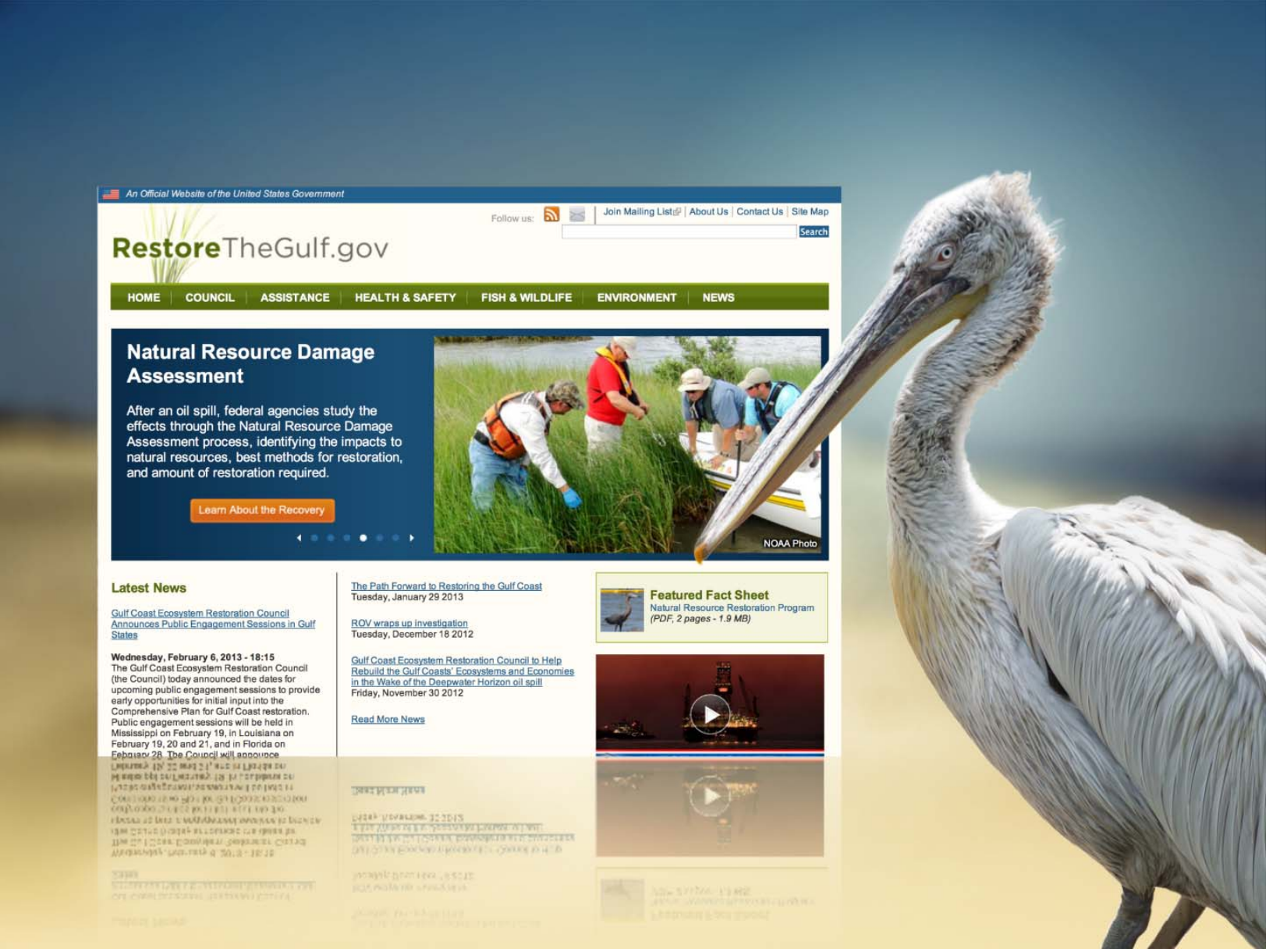
Harvey Simon, Geospatial Information Officer, Office of Environmental Information

US Environmental Protection Agency simon.harvey@epa.gov

Adrian Gardner Chief Information Officer, Goddard Space Flight Center, National Aeronautics and Space Administration, adrian.gardner@nasa.gov

Tim Trainor, Chief, Geography Division, U.S. Census Bureau, timothy.f.trainor@census.gov

“The need to more effectively leverage and share each other’s work is becoming a bigger and bigger driver in each of our organizations every day.”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RestoreTheGulf.gov
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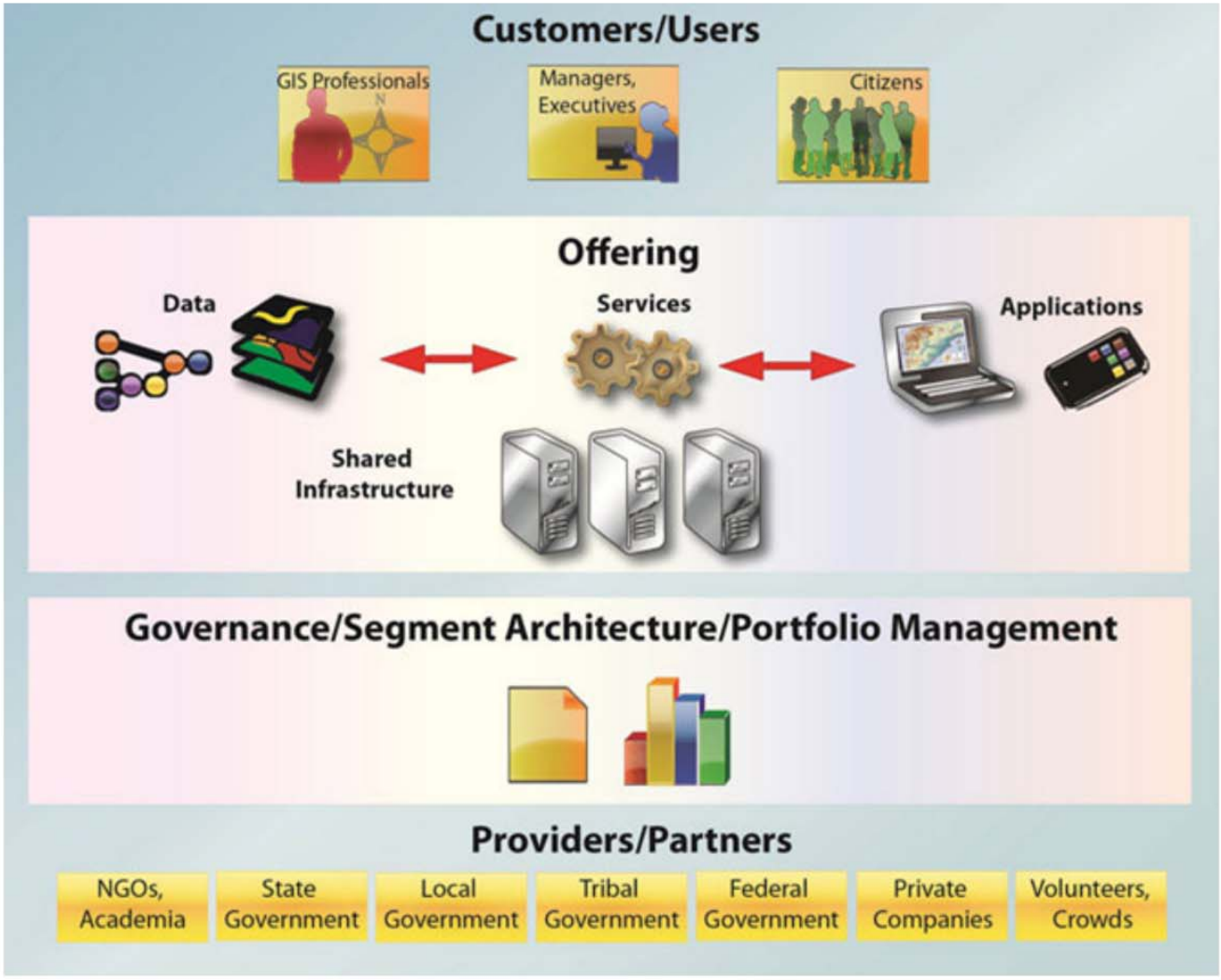
Natural Resource Damage Assessment
After an oil spill, federal agencies study the effects through the Natural Resource Damage Assessment process, identifying the impacts to natural resources, best methods for restoration, and amount of restoration required.
Learn About the Recovery
NOAA Photo
Latest News
Gulf Coast Ecosystem Restoration Council Announces Public Engagement Sessions in Gulf States
Wednesday, February 6, 2013 - 18:15
The Gulf Coast Ecosystem Restoration Council (the Council) today announced the dates for upcoming public engagement sessions to provide early opportunities for initial input into the Comprehensive Plan for Gulf Coast restoration. Public engagement sessions will be held in Mississippi on February 19, in Louisiana on February 19, 20 and 21, and in Florida on February 28. The Council will announce
The Path Forward to Restoring the Gulf Coast
Tuesday, January 29 2013
ROV wraps up investigation
Tuesday, December 18 2012
Gulf Coast Ecosystem Restoration Council to Help Rebuild the Gulf Coasts' Ecosystems and Economies in the Wake of the Deepwater Horizon oil spill
Friday, November 30 2012
Read More News
Featured Fact Sheet
Natural Resource Restoration Program
(PDF, 2 pages - 1.9 MB)

Budget Language for FY 2011, Direction to create the "Geospatial Platform"

- Portfolio Management, prioritize investments based on business need
- Leverage existing initiatives
- Improve the governance framework
- Address the requirements of State, local and tribal agencies
- Reuse data, tools and architecture
- Increase access to geospatial data

Conceptual Model



Smithsonian Institution

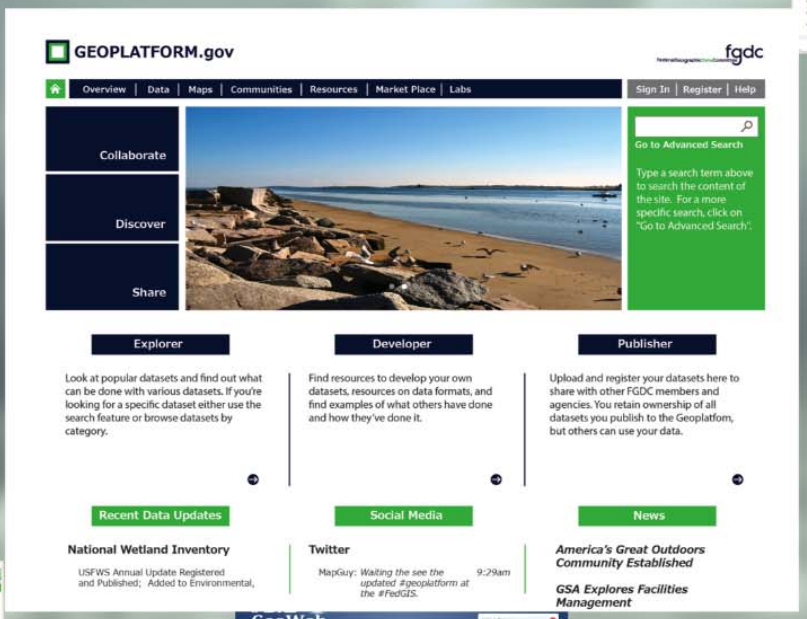
US Army Corps of Engineers

FGDC Key Activities

- NSDI Strategic Plan (Version 2) http://www.fgdc.gov/nsdi-plan/index_html
- A-16 Implementation Plan http://www.fgdc.gov/policyandplanning/a-16/index_html
- Geospatial Platform – http://www.geoplatform.gov
- FY 12 FGDC Annual Report: http://www.fgdc.gov/library/whitepapers-reports/annual%20reports/2012/index_html
-

Geospatial Platform V1

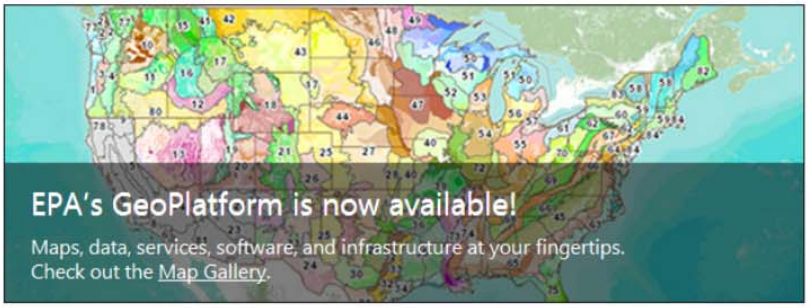
NOAA
SOUTHEAST AND CARIBBEAN DATA EXPLORER
Welcome to the Southeast and Caribbean Data Explorer


GEOPLATFORM.gov
fgdc
Overview | Data | Maps | Communities | Resources | Market Place | Labs
Sign In | Register | Help
Collaborate
Discover
Share
Go to Advanced Search
Type a search term above to search the content of the site. For a more specific search, click on "Go to Advanced Search".
Explorer
Look at popular datasets and find out what can be done with various datasets. If you're looking for a specific dataset either use the search feature or browse datasets by category.
Developer
Find resources to develop your own datasets, resources on data formats, and find examples of what others have done and how they've done it.
Publisher
Upload and register your datasets here to share with other FGDC members and agencies. You retain ownership of all datasets you publish to the Geoplatfom, but others can use your data.
Recent Data Updates
National Wetland Inventory
USFWS Annual Update Registered and Published; Added to Environmental,
Social Media
Twitter
MapGuy: Waiting the see the updated #geoplatform at the #FedGIS. 9:29am
News
America's Great Outdoors Community Established
GSA Explores Facilities Management

GeoWeb
MEDMAP

EPA GeoPlatform Effort

- Over 800 registered EPA users for epa.maps.arcgis.com
- Shared internal geospatial hosting environment
- Business Line Pilots (Enforcement Targeting, Community grants, and Environmental Justice Screening, Toxic Releases, Emergency Response Viewers, and Drinking Water)
- User needs interviews with thirty offices completed; continuing process
- Deputy Administrator issued memo announcing availability and require use of platform for new development: Access to GeoPlatform content now provided through custom Intranet site.
- Using geoplatform to power standardized public maps embedded in EPA's public site.



About EPA Geospatial

The term "geospatial" refers to anything that has a geographic location on the earth. EPA's National Geospatial Program coordinates the Agency's geospatial data, applications, policies and programs.

Featured Story - Enforcement Pilot

Read about the Enforcement Pilot Energy Extraction Intiative. The Enforcement Pilot for the EPA GeoPlatform was designed to target inspections and enforcement within the land-based energy extraction industry utilizing EPA data sources as well as external sources.

Applications

These applications will allow you to look at maps that contain information about air quality, water quality, hazardous waste and the environment in your neighborhood. Some of these applications are for technical users.

Geo News & Happenings

- EPA GeoPlatform Webinars
- GeoPlatform Map Gallery-check it out!
- GIS Listserv
- GIS Workgroup Quickr

Data

EPA's geospatial data show locations of environmental interest such as air quality, Superfund sites or waste water facilities. These data can be discovered through EPA's Environmental Dataset Gateway and can be viewed and analyzed using EPA's GeoPlatform, ArcGIS Desktop or by using other geospatial tools.

Search for Geospatial Data

This tool allows you to search the EPA's Environmental Dataset Gateway (EDG).

Find Data

Regional GIS Intranet Web Sites:

- EPA Region 1 - Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont
- EPA Region 2 - New Jersey, New York, Puerto Rico, US Virgin Islands
- EPA Region 3 - Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, West Virginia
- EPA Region 4 - Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee
- EPA Region 5 - Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin
- EPA Region 6 - Arkansas, Louisiana, New Mexico, Oklahoma, Texas
- EPA Region 7 - Iowa, Kansas, Missouri, Nebraska
- EPA Region 8 - Colorado, Montana, North Dakota, South

Featured Applications

All EPA Grants

Community Based Grants

Categories

Agriculture

Air

Boundaries & Base Data

Climate Change

Ecological

Emergency Response

Energy

Enforcement

Grants

Land & Cleanup

Pilots

Regulated Facilities

Waste

Water

Map Gallery: Featured Content on EPA's GeoPlatform

Search maps

Koppen-Geiger Observed ...

This time-enabled Map displays observed and predicted climate shifts from

Show more...

Natural Gas Mining

Map of the DOE & EPA Top 100 Gassy Coal Mines in the US, Coalbed Methane ...

Show more...

National Wetlands ...

Map showing status and detail of the National Wetlands Inventory

Show more...

Soil Survey Map

Map showing U.S. Soil Survey Data including SSURGO and STATSGO

Show more...

Priority Watersheds, EPA ...

Priority Watersheds and EPA Existing Investment Watersheds in Region 4

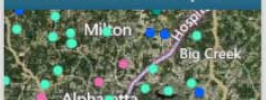
Show more...

U.S. Census 2010 ...

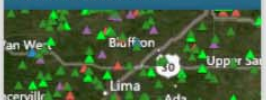
This map contains the core enumeration units used for the 2010 census. The ...

Show more...

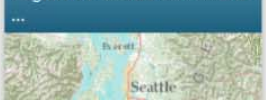
Dun & Bradstreet Crop ...

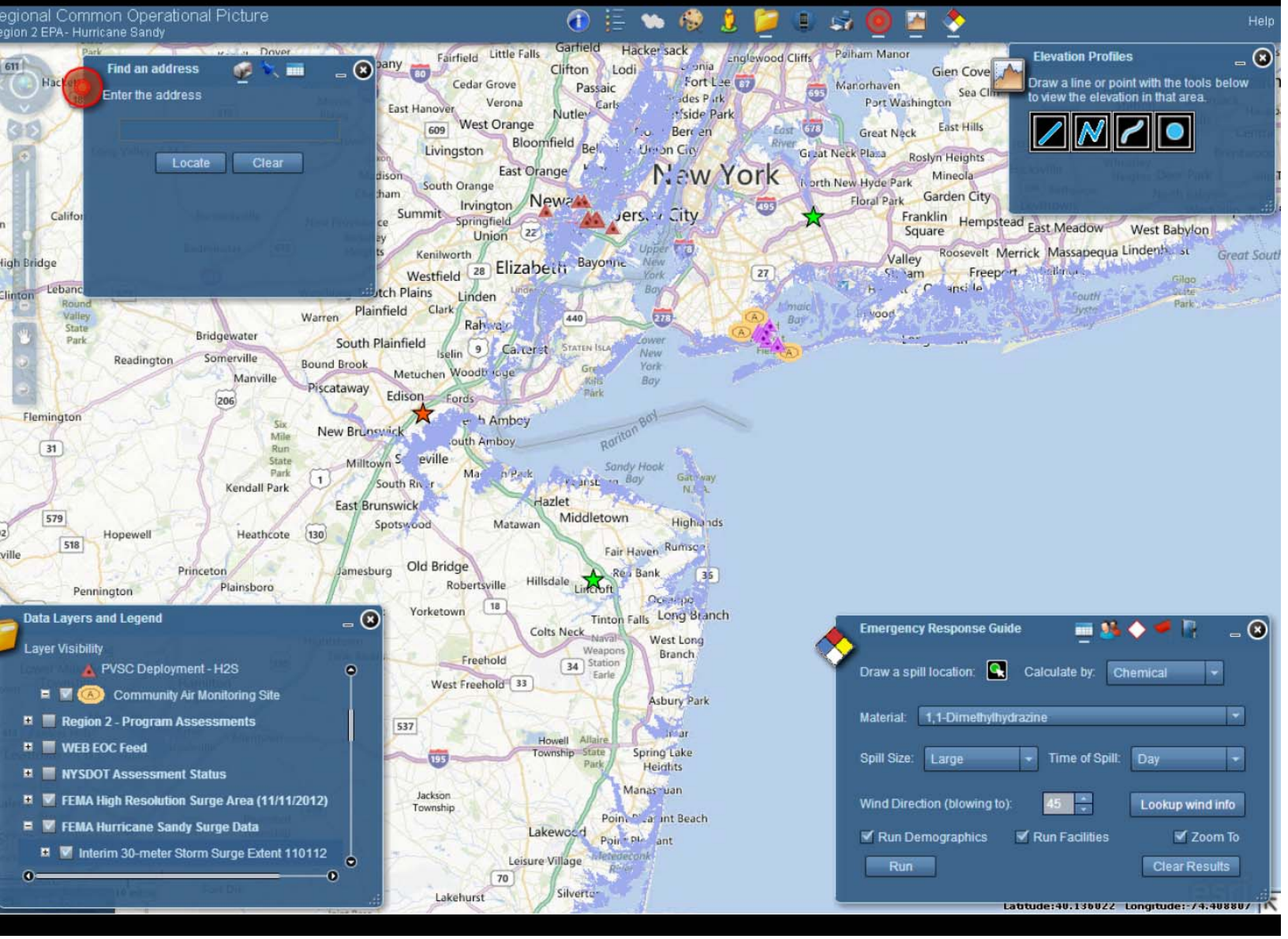


Dun & Bradstreet ...



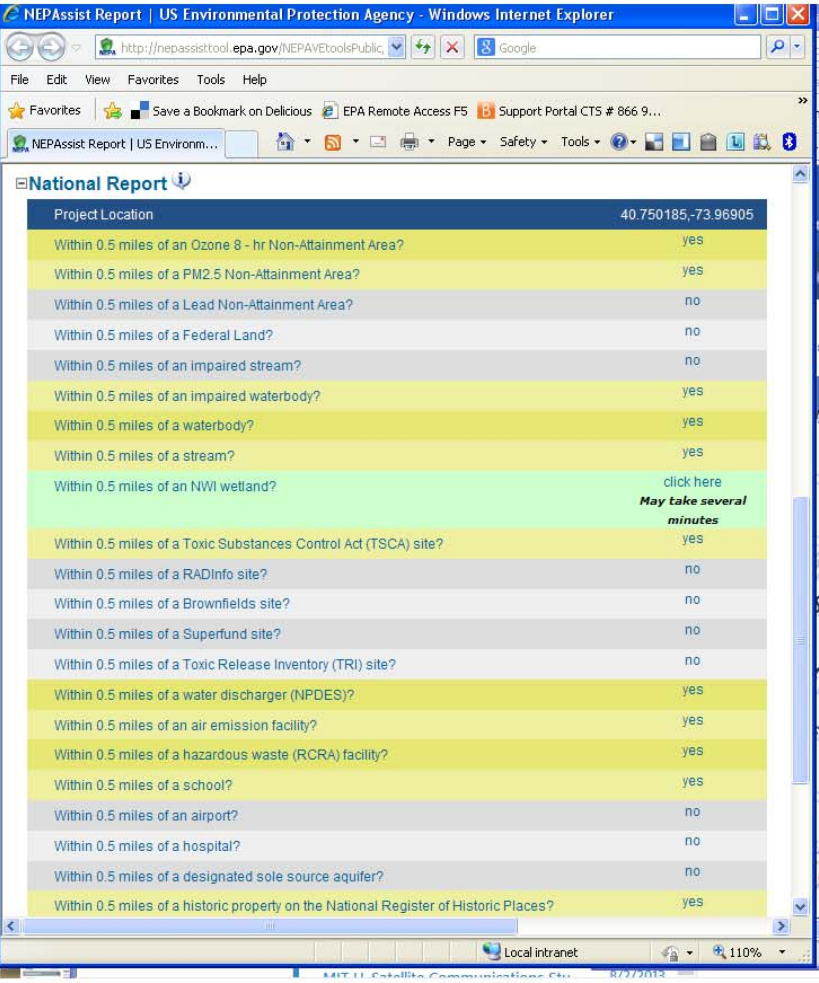
Region 10 Goods Movement ...

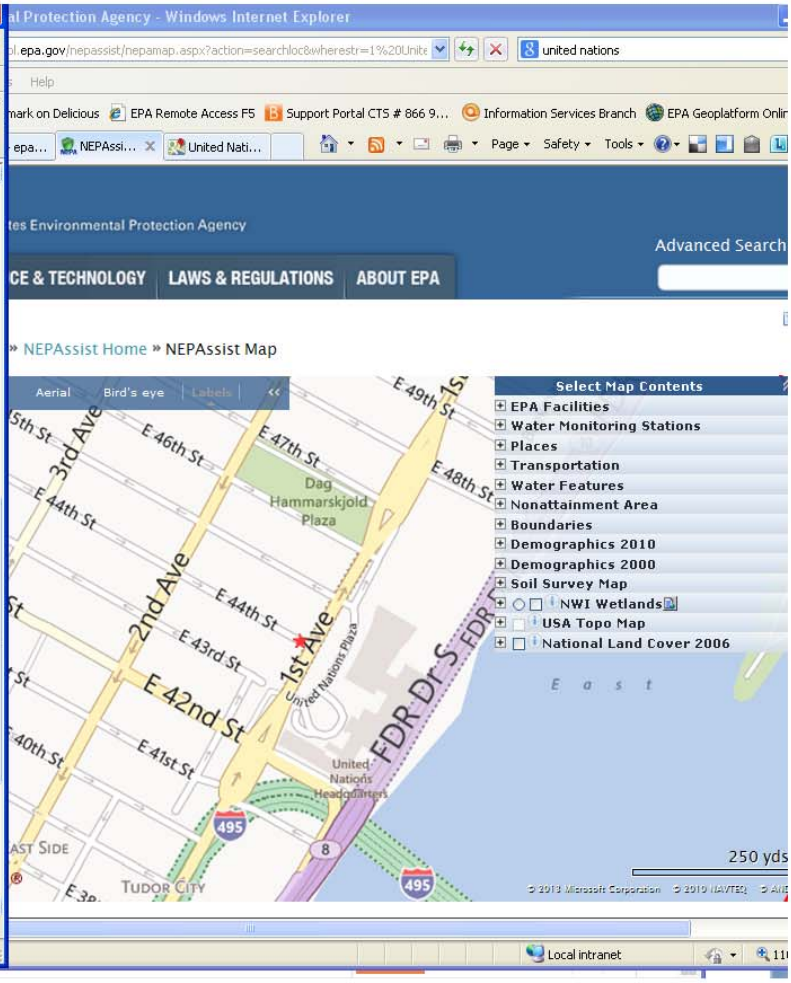



egional Common Operational Picture
egion 2 EPA - Hurricane Sandy
Help
Find an address
Enter the address
Locate
Clear
Elevation Profiles
Draw a line or point with the tools below to view the elevation in that area.
Data Layers and Legend
Layer Visibility
PVSC Deployment - H2S
Community Air Monitoring Site
Region 2 - Program Assessments
WEB EOC Feed
NYSDOT Assessment Status
FEMA High Resolution Surge Area (11/11/2012)
FEMA Hurricane Sandy Surge Data
Interim 30-meter Storm Surge Extent 110112
Emergency Response Guide
Draw a spill location:
Calculate by:
Chemical
Material:
1,1-Dimethylhydrazine
Spill Size:
Large
Time of Spill:
Day
Wind Direction (blowing to):
45
Lookup wind info
Run Demographics
Run Facilities
Zoom To
Run
Clear Results
New York
Newark
Jersey City
Elizabeth
Edison
New Brunswick
Middletown
Long Branch
Lakewood
Toms River
Lakehurst
Princeton
Trenton
Hackensack
Paterson
Passaic
Clifton
Fairfield
Little Falls
Garfield
Lodi
Hempstead
Garden City
Mineola
Great Neck
Port Washington
Manhasset
Roslyn Heights
East Hills
Floral Park
Franklin Square
East Meadow
West Babylon
Valley Stream
Roosevelt
Merrick
Massapequa
Lindenhurst
Freeport
Bayonne
Kearny
Secaucus
Weehawken
Fort Lee
Englewood Cliffs
Pelham Manor
Glen Cove
Sea Cliff
Manorhaven
Irvington
Summit
Springfield
Union
Kenilworth
Westfield
Plainfield
Linden
Rahway
Carteret
Staten Island
Lower New York Bay
Upper New York Bay
Raritan Bay
Sandy Hook Bay
Gateway N.R.A.
Jamaica Bay
Bridgewater
Somerville
Readington
Bound Brook
Manville
Piscataway
Metuchen
Woodbridge
Fords
South Plainfield
South Amboy
South River
Milltown
East Brunswick
Spotswood
Matawan
Hazlet
Highlands
Fair Haven
Red Bank
Hillsdale
Lincroft
Tinton Falls
Colts Neck
West Long Branch
Asbury Park
Freehold
West Freehold
Howell Township
Allaire State Park
Spring Lake Heights
Jackson Township
Manasquan
Point Pleasant Beach
Point Pleasant
Leisure Village
Silverton
Hopewell
Heathcote
Pennington
Plainsboro
Yorketown
Old Bridge
Robertsville
Flemington
Kendall Park
Six Mile Run State Park
Round Valley State Park
Cedar Grove
Verona
East Hanover
West Orange
Livingston
Bloomfield
East Orange
South Orange
Warren
Clark
Cliffside Park
Union City
Weehawken
Great Neck Plaza
North New Hyde Park
Gilgo State Park
Jones Beach State Park
Latitude:40.136022 Longitude:-74.408807

NEPAssist

http://nepassisttool.epa.gov/nepassist/entry.aspx

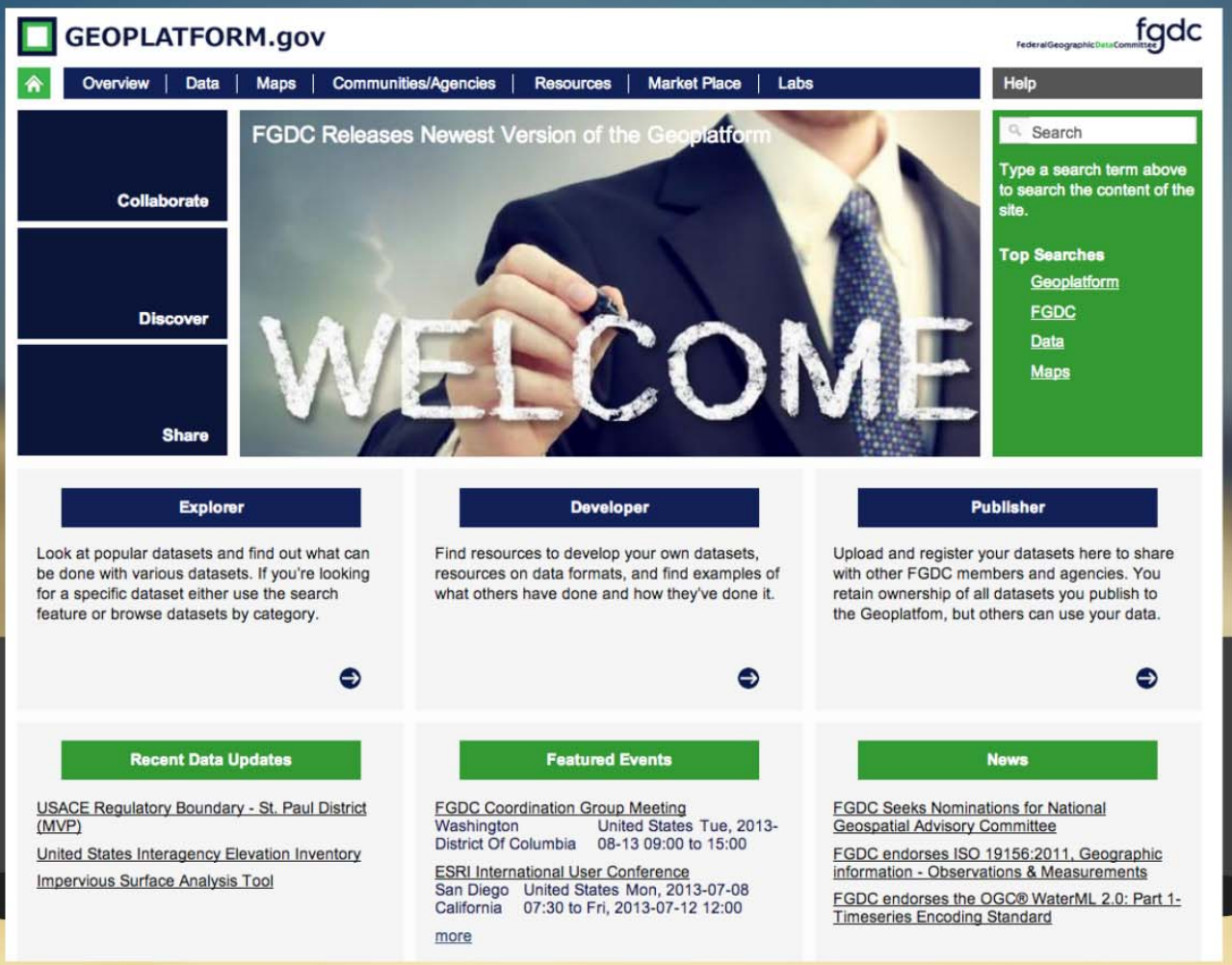




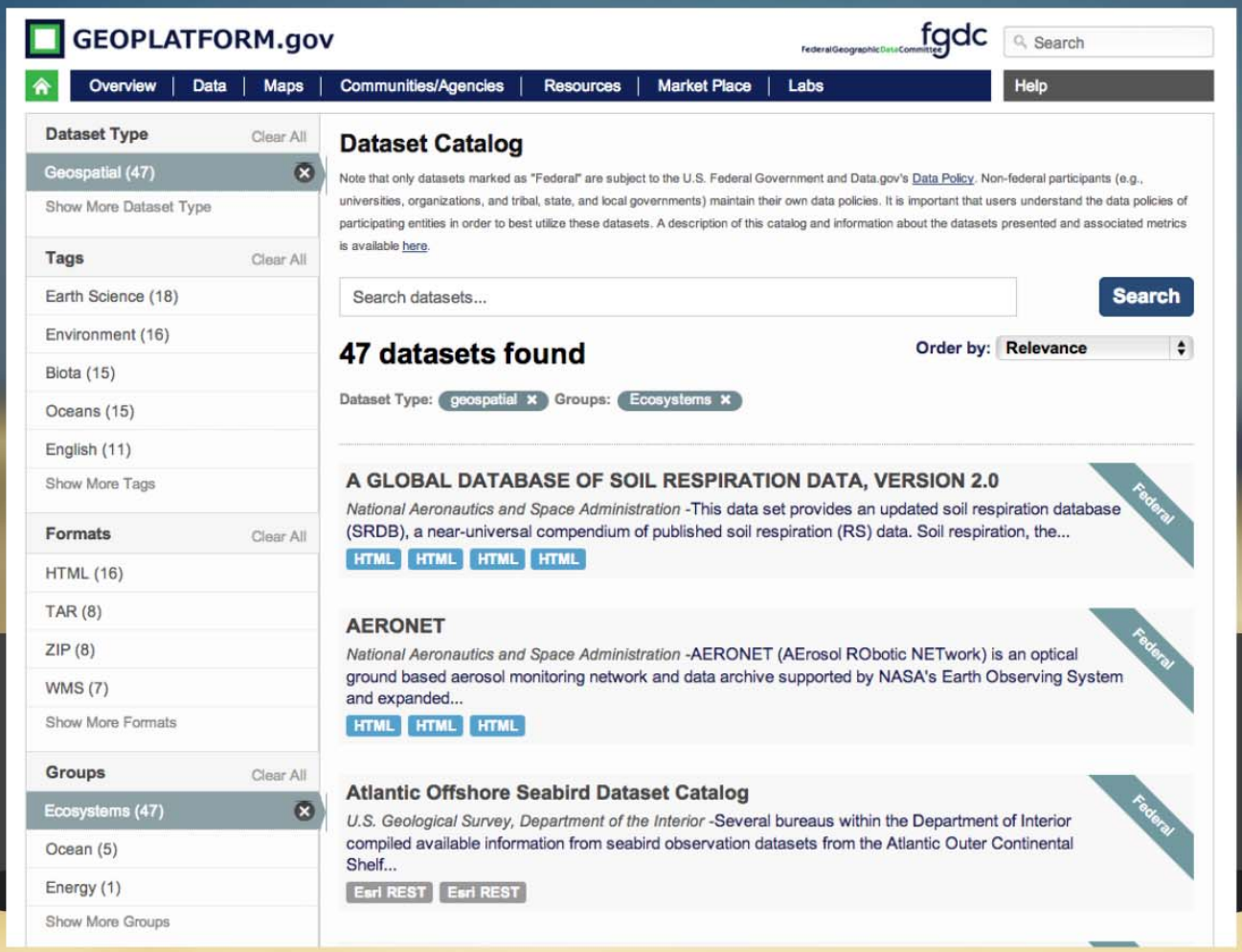
NEPAssist

- NEPAssist is an environmental impacts screening tool developed by EPA and now a public application for all of the US.
- NEPAssist is a screening tool for environmental reviews and project planning.
- USAID has funded EPA to transfer the application to other countries. It has been deployed by local agencies in El Salvador. Nicaragua. Costa Rica. Guatemala. Honduras, Dominican Republic, and Chile.

Geospatial Platform V2



Discovering Geospatial Assets



Partnership with Platform

GEOPLATFORM.gov

fgdc Federal Geographic Data Committee

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Overview | Data | Maps | Communities/Agencies | Resources | Market Place | Labs | Help

NOAA Home | Featured Datasets | Map Gallery | Featured Applications | Hurricanes and Storms | Data Groups

Welcome to NOAA

The NOAA Community on the National Geoplatform provides NOAA customers, partners, and staff members with a centralized platform for discovering and accessing much of NOAA's distributed geospatial data, services, and applications.

Overview

NOAA is an agency that enriches life through science. Our reach goes from the surface of the sun to the depths of the ocean floor as we work to keep citizens informed of the changing environment around them.

Hurricanes & Storms

This ArcGIS Online group provides access to authoritative NOAA web map services and applications in support of the 2013 hurricane season.

MarineCadastre.Gov

MarineCadastre.gov, a partnership between the Bureau of Ocean Energy Management and the National Oceanic and Atmospheric Administration's Coastal Services Center, provides spatial data, viewers, tools, and technical support for offshore renewable and conventional energyprojects and marine

Developer Resources

GEOPLATFORM.gov

fgdc

Overview | Data | Maps | Communities | Resources | Market Place | Labs

Sign In | Register | Help

Developer Overview

Welcome to the Geoplatform.gov Developer Pathway. On this site you will find the tools, documentation, downloads and forums to help you, collaborate, discover, consume and distribute your geospatial data, web maps, apps and maps.

Use this space to ask questions, suggest enhancements and embrace your inner geogeek along with others. Share your knowledge and ideas, and most importantly push the limits of what the data can do.

How to Store Maps

How to Publish in the Map Gallery

How to Access Web Services

Go to Advanced Search

Type a search term above to search the content of the site. For a more specific search, click on "Go to Advanced Search".

API's

Both Desktop and web based APIs are described here, and how you can discover, consume and use the data from GeoPlatform. Using your development skills in Python, .NET, Flex or Javascript you'll be visualizing and analyzing data in a matter of minutes using our examples and code snippets..

Map Gallery

Share your amazing cartographic skills or view other Developers and Analysts Maps and Apps, for download, or use. See what cool new things your peers are doing and use them to enhance your analysis or viewer. Find a new base map, or a new plug in for your use

Tools

Find the right tool for the right geojob. Look through the GeoPlatform's specialized plug-ins and widgets to find how to interface the GeoPlatform's data collection, collaboration and discovery capabilities with your web viewer, mobile app or

Documentation

Wondering what is Python and how you can use it to help you run your latest analysis? Just started playing around with Spatially enhanced SQL? Looking for specific information about a function or call? Search our document repository to find information on both vendor

Downloads

Ready to start your first web map? Looking for desktop software? Click on our downloads page to find the latest APIs and Desktop applications from vendor specific products and the open source community. Or access the GeoPlatform's GitHub Community and fork what we've been working

Forum

Got a question, or some free time to answer one? Post or search our forums for questions about how to use the GeoPlatform to enhance your application or analysis. Feel free to ask questions about anything related to geo as well, we won't delete it, we promise.

Communities
- National Blueways System

GEOPLATFORM.gov

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NBS Home | Maps | Featured Datasets | Community Resources

Welcome to Our Community

National Blueway System

This is the National Blueways System's portal for data, information, and resources to support people engaged in our efforts. Our goal is to enhance discovery of and access to data and information for planners, stakeholders, and the public. Please visit our Feedback page to tell us what would make the site more useful to you as we expand our content.

Program Overview

The importance of rivers runs deep through the fabric of America. Because of the critical importance of rivers to our communities, our economies and our health, the National Blueway System will recognize stakeholder partnerships that are working to make rivers and watersheds healthy and resilient now and for the future...

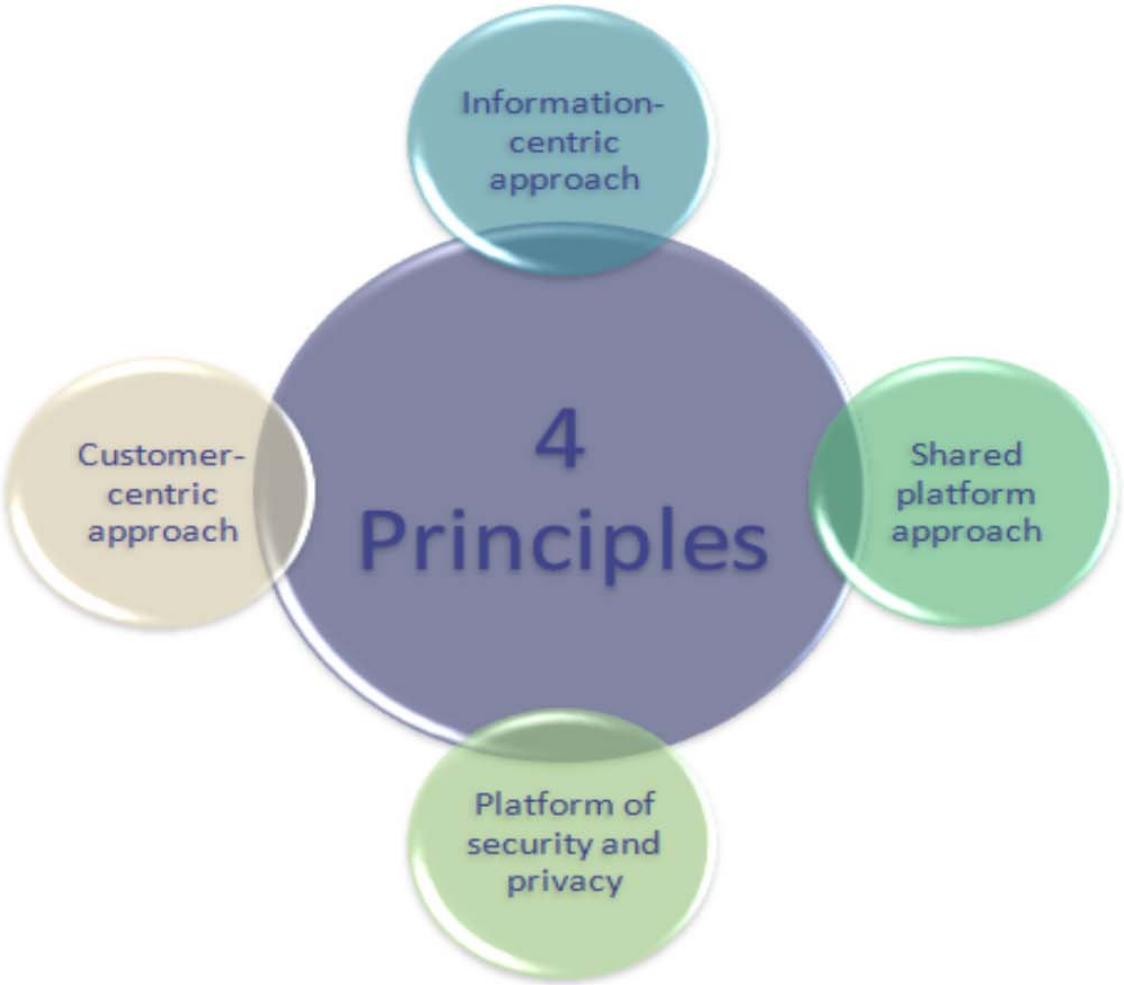
Connecticut River

The Connecticut River courses more than 410 miles through four states – New Hampshire, Vermont, Massachusetts and Connecticut – before reaching Long Island Sound. New England's longest river, the Connecticut's 11,985-square-mile watershed supplies water and essential services to 2.3 million people...

Blueway Maps

Build, share, and improve resources in the National Blueway System, such as Webmaps, Layers, and Applications. Discover and share maps in the four Blueway program areas: Outdoor Recreation, Conservation, Environmental Education, and Sustainable Economic Development.

U.S. Digital Government Strategy



http://www.whitehouse.gov/sites/default/files/omb/egov/digital-government/digital-government.html#top

The EPA's Developer Central is designed to serve students and junior developers, as well as seasoned professionals. On this website, you can learn how to access environmental data using featured EPA Web services. If you are looking for a place to start, view our sample code and build on one of our initial projects. We also encourage you to contact us directly and tell us about your app project.

Is this site for you?

Featured Services

Obtain data and/or code from resources such as the Envirofacts RESTful Data Service API for your use.

See All

- Envirofacts API
- UV Index

Sample Code

Get started quickly with sample code in various languages that make use of the Envirofacts RESTful Data Service API.

See All

- Android
- iOS
- .NET
- PHP

Open Source Apps with EPA Data

Download open source application code, to use and learn from in building apps with EPA Data.

See All

- madewithdata

Developer Feedback and Discussion

- Make a suggestion
- Tell us about your app product
- Submit a question about our featured services
- Frequently Asked Questions

Additional Services

- Data.gov
- Other Federal Developer Resources
- Other EPA Resources

Developers - U.S. Census Bu
www.census.gov/developers/
Delicious Gimmonet MyWorkplace EPA MySharepoint What's New on TV Ton... EPA Webmail Adobe Connect New Tab DC Taxes Subscriber Downloads IDManagement.gov Other bookmarks

Access Data with Census APIs

Developer Forum

Join our Developer Forum to submit questions, provide feedback, and share ideas to help the Census Bureau as it makes data available through APIs.

Using the API

Request a Key
Data Sets

Download Data

To download full data sets, visit our FTP Server

Print | Share this page | Connect with us

Census Bureau APIs

To improve access to data and encourage innovation, the Census Bureau has begun to provide API access to some data sets. We invite developers to use these APIs, join our Developer Forum, and provide feedback to help us move forward with continued API development.

Please read the Terms of Service for using the API.

Note on URL base: Please note the the URL of the API has changed to api.census.gov.

Accessing Data

Data are accessible to software developers through a stateless HTTP GET request. Up to 50 variables can be requested with a single API call. In order to access data, you will need to insert a key into the request URL in order for query results to be returned. If you do not have a key assigned to you, you will be directed to the Request a Key page where you can register for one.

1) Example of the request URL for 2010 Census SF1 data that has an assigned key inserted:

http://api.census.gov/data/2010/sf1?key=b48301d897146e8f8efd9bef3c6eb1fcb864cf&get=P0010001,NAME&for=state:*

2) Example of the request URL for ACS 2010 5 Year data for Total Population for California and New York:

http://api.census.gov/data/2010/acs5?key=b48301d897146e8f8efd9bef3c6eb1fcb864cf&get=B02001_001E,NAME&for=state:06,36

3) Example of the request URL for ACS 2010 5 Year data for Gross Rent as a Percentage of Household Income, 10.0 to 14.9 percent for all counties in CA:

http://api.census.gov/data/2010/acs5?key=b48301d897146e8f8efd9bef3c6eb1fcb864cf&get=B25070_003E,NAME&for=county:*&in=state:06

4) Example of the request URL for 2010 Census SF1 white population of 12 year olds in Alabama

http://api.census.gov/data/2010/sf1?key=[user key]&get=PCT012A015,PCT012A119&for=state:01

Query Response

The response for all queries is formatted as a two dimensional JSON array where the first row provides column names and subsequent rows provide data values.

An example query response looks like this:


```
[["P0010001","NAME","state"],
["710231","Alaska","02"],
["4779736","Alabama","01"],
["2915918","Arkansas","05"],
["6392017","Arizona","04"],
["37253956","California","06"],
```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Common Challenges

- Ease of use …. is really hard
- Data are everywhere … but publishing for secondary use can be rough on data owners
- The cloud has awesome potential …
  but is really tricky to implement for governments
- “Who am I?” … is not such an easy question for open systems to answer
- I can mash up all this data… but then what?