

EPA's Environmental Dataset Gateway (EDG)


An Entry Point for EPA Resources

<https://edg.epa.gov>



Today's Agenda

- Setting the Stage
- Basics
 - **What** is the EDG?
 - **How** does it meet EPA's business needs?
- Technology
 - What do the **key features** look like?
 - How does it **relate** to the rest of EPA's GIS infrastructure?
- Considerations
 - What were/are EPA's key **challenges**?
 - What are the **next steps**?



ES&I/UTC Priorities

1. Lounge by pool
2. Rub elbows with Jack
3. Learn how to surf
4. Visit Coronado
5. Meet Shamu
6. Learn about EPA's EDG!



Setting the Stage – Part 1



- Getting to Know You
 - You are here because....
 - A. You want to know how to find and access EPA's data?
 - B. You want to learn how EPA's approach to implementing data sharing tools may help you implement your own systems?
 - C. Both?
 - D. None of the above?





Setting the Stage – Part 2

- Getting to Know EPA.....
 - EPA is a large, distributed organization
 - Regions, Programs, Labs
 - Many GIS Uses/Users
 - Analyses/modeling, maps, tools
 - Novice to very advanced
 - EPA GIS users and public
 - Common Thread
 - *I need GIS data!*

EPA's US Office Locations





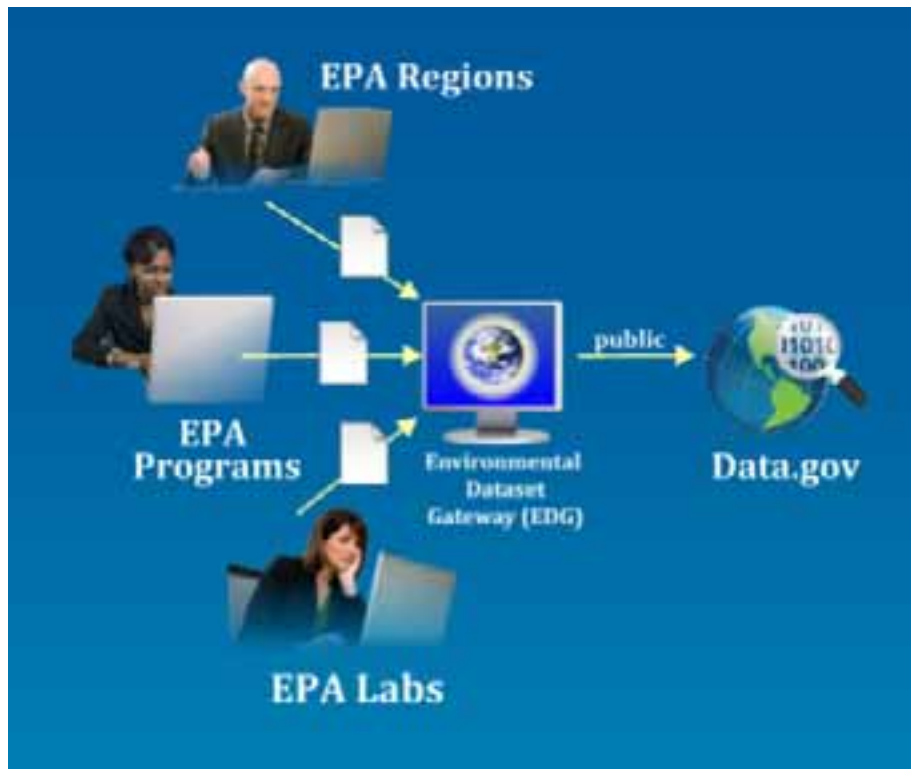
Setting the Stage – Part 3

- Satisfying the Need for GIS Data
 - Data User Needs
 - Easily find and access data
 - Understanding what the data are all about
 - Finding data that contains the right content
 - Finding data in a useful format
 - Data Provider Needs
 - Easy metadata management
 - Making data accessible to others
 - Providing documentation with data
 - Understanding who is using my data.....





Enter the EDG....What is it?



- Cornerstone of EPA's Data Sharing Framework
 - Metadata Catalog
 - Data Access Tools
 - Download Locations
 - Clip & Ship
 - Data Visualization Tools
 - Conduit to Data.gov



How Does it Meet EPA's Business Needs?

- **Data Consumers**



- **Finding Data:** Central location to access EPA Data
 - Search, Custom Browse
- **Understanding Data:** Only valid metadata are accepted
- **Accessing Data:** Access content in multiple formats
 - EPA Data Services
 - Downloadable Data
 - Interactive Services





How Does it Meet EPA's Business Needs?

- **Data Providers**

- **Metadata Management Tools**

- Simple, intuitive, flexible metadata management interface
 - “Group management” structure
 - Single Sign-on with EPA's Identity and Access Management System
 - EPA Metadata Editor



- **Making Data Accessible to Others: EDG Data Hosting**

- EDG Download Locations
 - EPA Clip & Ship

- **Providing Documentation with Data: EDG Metadata may be linked from services, websites**

- **Understanding Who is Using my Data: EDG Inventory and Metrics**



Let's Take a Deeper Look.....

The image displays two overlapping screenshots of the EPA Environmental Dataset Gateway (EDG) website. The left screenshot shows the 'Home' page with a search bar, navigation tabs (HOME, ABOUT, SEARCH, BROWSE, DATA, REUSE), and a 'Data' section. The right screenshot shows a map interface with a data overlay and a red starburst graphic containing the text 'Custom!!'. The starburst is positioned over the 'Data' section of the right screenshot, which lists 'EDG Data Download Locations' and 'EPA's Clip N Ship Site'.



EDG Features: Data Consumers

The screenshot shows the EPA Environmental Dataset Gateway (EDG) website. The header includes the EPA logo and the title "Environmental Dataset Gateway (EDG)". Navigation tabs for HOME, ABOUT, SEARCH, BROWSE, and DATA are visible. A "Login" link is in the top right corner. Below the navigation, there are sections for "Home", "the EDG Team", "Search EPA's Data" (with a search box and "Search" button), "Other Ways to Find EPA's Data" (with links for "Advanced Search" and "Browse EPA Records"), "EDG Download Site", and "Reuse Components". The footer contains "EPA Web Links" and icons for "Widgets", "RSS News Feeds", "Podcasts", and "EPA Mobile".

Login

Data Access

Browse

Advanced Search

Simple Search



EDG Features: Data Consumers

Custom Browse

"I need to see all of the records for my Office"

"I would like to see data by meaningful category"

The screenshot shows the EPA Environmental Dataset Gateway (EDG) interface. At the top, there is a navigation bar with links for HOME, ABOUT, SEARCH, BROWSE, DATA, and REUSE. Below this, the 'Browse' section is active, displaying a search results page. The left sidebar contains a tree view of categories, including 'Data Categories', 'Owner', 'ORD', and 'OSWER'. The main content area shows 111 results, with the first few entries being 'EPA Facility Registry System (FRS): TRI', 'EPA Facility Registry System (FRS): SDWIS', 'EPA Facility Registry System (FRS): RMP', and 'EPA Facility Registry System (FRS): RCRA_TSD'. Each entry includes a brief description and links for 'Details', 'Preview', 'Download', 'Website', 'Metadata', 'Arcmap', 'Globe (.kmf)', and 'Globe (.amf)'. A green arrow points from the 'Custom Browse' box to the 'Data Categories' link in the sidebar.



EDG Features: Data Consumers

Login Help Feedback



EPA Environmental Dataset Gateway (EDG)

Connecting EPA's Environmental Resources

HOME ABOUT SEARCH BROWSE DATA REUSE

Data

Many metadata records provided to the EDG point to data that is accessible for download from the [EDG Data Download Locations](#) or the [EPA's Clip N Ship Site](#). Access those sites directly by clicking the links below.

-  **EDG Data Download Locations**
Download data posted by EPA's Regions, Programs, or Labs. This site allows you to browse through the folders set up for each group and download files individually.
-  **EPA's Clip N Ship Site**
Select and download data for your area of interest. This interactive site presents EPA data in a map viewer and allows you to view the data, select your area of interest, and choose an output format to save the content locally.



EDG Features: Data Consumers

EPA Clip & Ship

View/Select Data

Full EDG Metadata

The screenshot displays the EPA EDG web application interface. On the left, a map shows the Northeast United States with numerous purple data points. A green arrow points from the 'View/Select Data' label to the map. On the right, a panel titled 'EPA Clip & Ship' is visible, containing options to 'Select Area' (Choose a state or use a draw tool) and '2. Select Data'. A list of data layers is shown, with 'R1 Regulated Facilities: AIRS-AFS' selected. Below this list, there are dropdown menus for 'Select Vector Format' (File Downloadable (.zip)), 'Select Raster Format (if needed)' (Binary GRID (.TIFF), GRID (.GEO), GRID (.SHP)), and 'Select Spatial Reference' (Same As Input Web Mercator Auxiliary Sphere). A 'Download' button is at the bottom of the panel. A green arrow points from the 'Full EDG Metadata' label to a popup window titled 'R1 Regulated Facilities: AIRS-AFS'. This popup contains a detailed description of the data, including information about the Air Quality System (AQS) and the Clean Air Act.



EDG Features: Data Consumers

Welcome, Jessica_Zichichi Logout

EPA Environmental Dataset Gateway Download Local
Connecting EPA's Environmental Resources

Download EPA's Geospatial Data

Access geospatial data provided by EPA's Program Offices, Regions, and Labs by clicking on the folders below.

- Public
- EPA Office of Chemical Safety and Pollution Prevention
- EPA Office of Compliance and Enforcement
- EPA Office of Environmental Information
- EPA Office of Policy
- EPA Office of Research and Development
- EPA Office of Solid Waste and Emergency Response
- EPA Office of Water
- EPA Region 1
- EPA Region 3
- EPA Region 4
- EPA Region 6
- EPA Region 7
- EPA Region 9
- Restricted



EDG Features: Data Publishers

Welcome, Jessica_Zichichi Logout Help Feedback EDG Inventory

EPA Environmental Dataset Gateway (EDG)

HOME ABOUT SEARCH BROWSE DATA REUSE ADMINISTRATION

Manage Add

Manage Metadata

Document title:
Document UUID:
Site UUID:
Document owner: **Any**
Approval status: **Any** Publication method: **Any** Protocol Type: **Any**
Update date between: and (yyyy-mm-dd)

For selected records: **Set as Posted**

Results: 1-50 of 2,781 record(s) 1 2 3 4 5 6 7 8 9 10 > Last

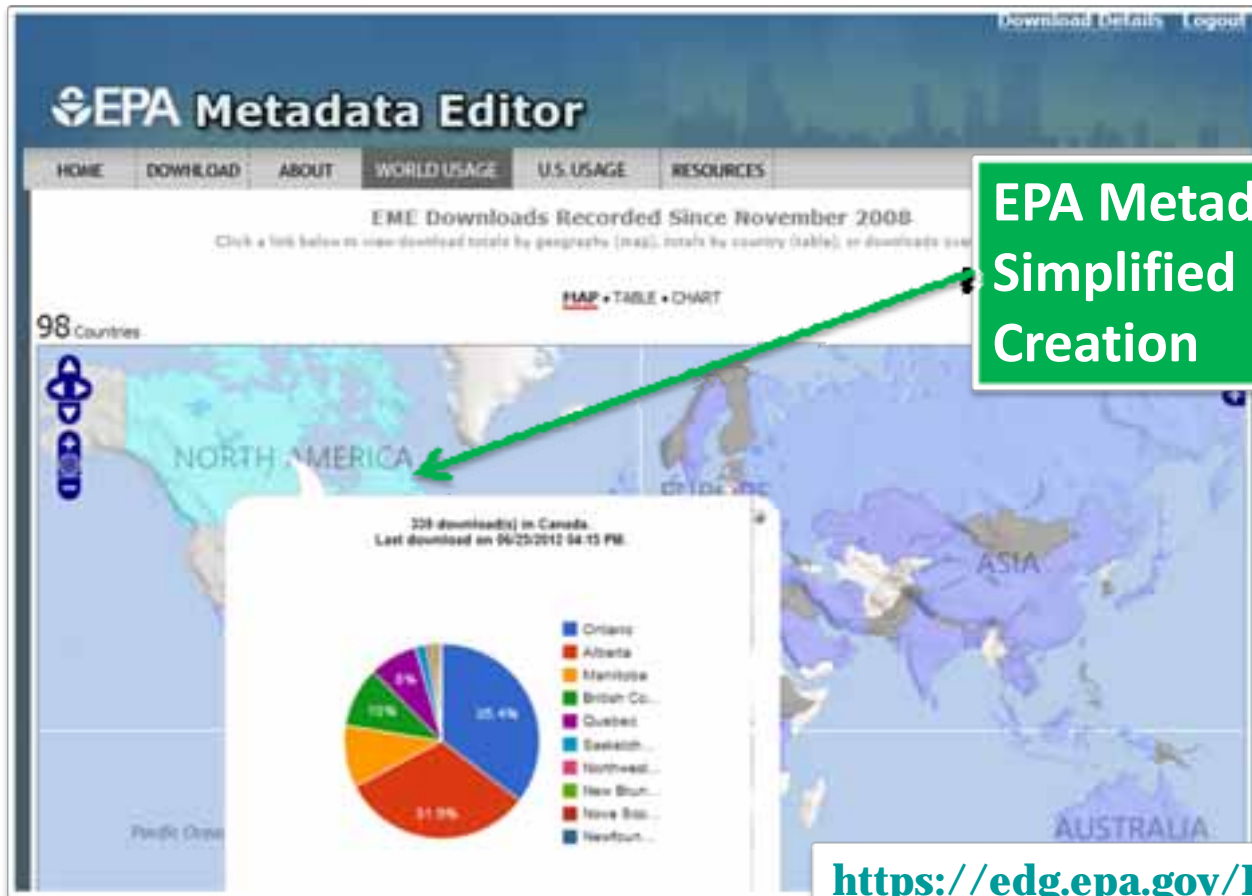
Action	Title	Owner	Status	Method	Date	Access
	1:24,000 Quadrangle Boundaries in the US: USQA/USCB	Region 6	Approved	Upload	2012-06-27	Restricted
	6A Quadrangle Boundaries for the US: EPA Region 6 Emergency Response	Region 6	Approved	Upload	2012-06-27	Restricted
	6A Quadrangle Boundaries for EPA Region 6: RA Emergency Response	Region 6	Approved	Upload	2012-06-27	Restricted
	EPA Region 6 1 km Grid Cells	Region 6	Approved	Upload	2012-06-27	Restricted
	Index grid of USGS 3.75x3.75 1:12,000 quadrangles for the United States including the lower 48, Alaska, Hawaii and Puerto Rico	Region 6	Approved	Upload	2012-06-27	Restricted

Group Management Structure

- UAK-UTAU
- OCSPP
- OCSPP-OPP
- OCSPP-OPPT
- OECA
- OEI
- OEI-OIAA
- OEI-OIC
- OP
- ORD
- ORD-NCEA
- ORD-NERL-ESD
- ORD-NERL-ESD-REVA
- ORD-NHEERL-AED
- ORD-NHEERL-WED
- OSWER
- OSWER-OBLR
- OSWER-OEM**
- OSWER-OPM
- OSWER-ORCR



EDG Features: Data Publishers





EDG Features: Data Publishers

EPA Environmental Dataset Gateway Performance Metrics

Introduction | EDG Inventory | Detailed Inventory | Resource Access Metrics

Summary

Recent distribution by "County"

Recent distribution by "Region"

Current report restricted to resource access from "5/29/2012" to "6/28/2012"

687 Items

sorted by: access_date grouped as sorted

1. Smart Location Database version 5.2b

2. Smart Location Database version 5.2b

3. EPA Office of Water (OW): THDLs on Impaired Waters NHD Indexed Dataset

4. Parcel Boundaries in Calcasieu Parish, LA

Usage Metrics & Reporting



EDG Features: Data Publishers



Dynamic EDG Inventory



Time Check.....*Can We Fit in a Demo?*





How Does it Relate to the Rest of EPA's GIS Infrastructure?

- **EPA's GeoPlatform**

- Provide Cross-Platform Search
- EDG Search Results: include "Add to GeoPlatform Map"
- Services must link to EDG Metadata
- Single Sign On





EPA's Current Key Challenges

- **Data Users**
 - Keeping content up to date
 - Clear messaging for multiple audiences
- **Data Providers**
 - Creating Metadata!
 - Understanding the whole work flow
 - Updating Metadata
- **Technology**
 - Improving the Relationship with GeoPlatform
 - Relying on distributed components





Questions?

– Inspirational Quote For the Day

“Failure is the condiment that gives success its flavor.”

-Truman Capote





- Thank you for your time!
 - Contact Us
 - David Parrish, EDG Project Manager
 - edg@epa.gov

