EPA's GeoData Gateway (GDG)

A Central Access Point for Geospatial Resources

February 18, 2010







Agenda

- Background
- GeoData Gateway (GDG) Features
- How to Find and Access EPA's Geospatial Resources
 - Simple Search
 - REST Outputs
 - Searching as a logged-in user
 - Refining Search
 - The GDG Search Widget
 - Additional GDG Access Points
 - Connections to External Catalogs
- Next Steps



Background

- EPA is a large organization with many distributed offices
- Deployed the GDG in 2006 (GPT 2.1)
- Upgraded and enhanced in 2007 (GPT 3.1)
- Recent upgrade completed Jan. 15, 2010 (GPT 9.3.1)
 - New streamlined design, enhanced metadata access capabilities, more....
 - Initially released internally; plan to release publicly this spring





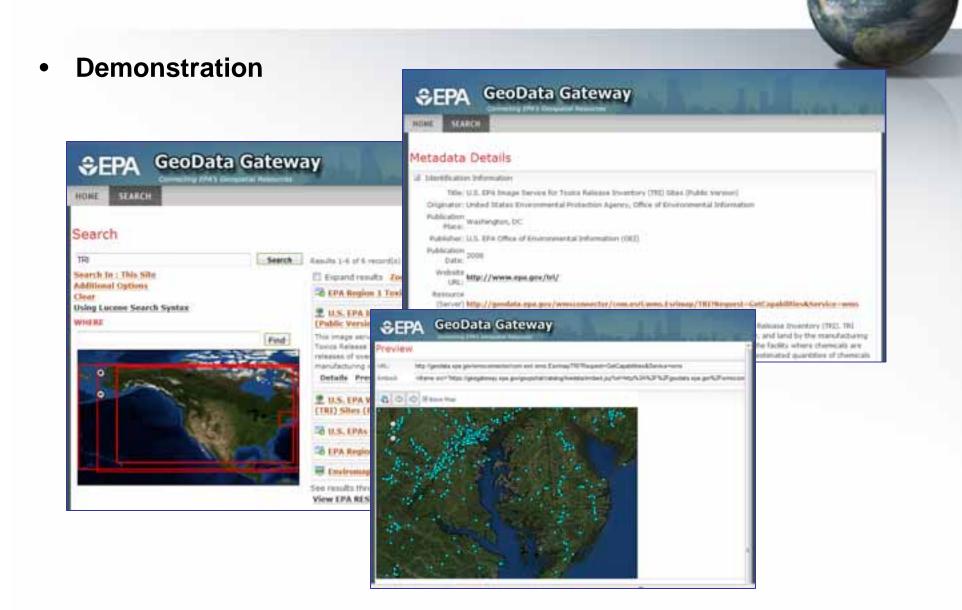
Before After

GeoData Gateway (GDG) Features

- The GDG provides users with the ability to easily:
 - Search for and access resources
 - Preview geospatial resources
 - Reuse GDG catalog components
 - Access EPA metadata from external catalogs
 - Publish metadata
 - Manage metadata



We're going to focus on the first four features in this presentation



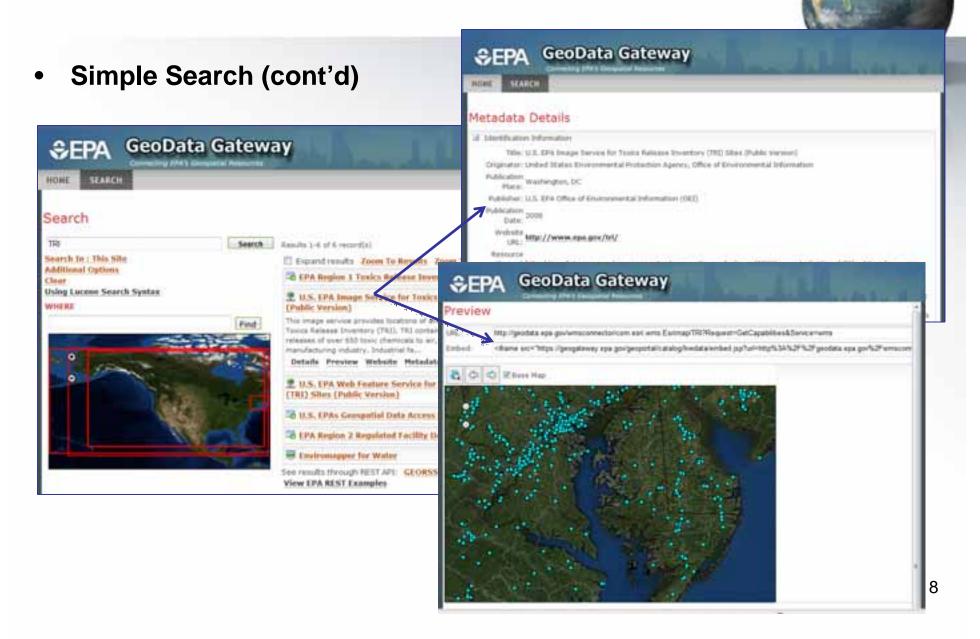
Demo Back-up Slides



The next few slides are back-up in case the demo is not available

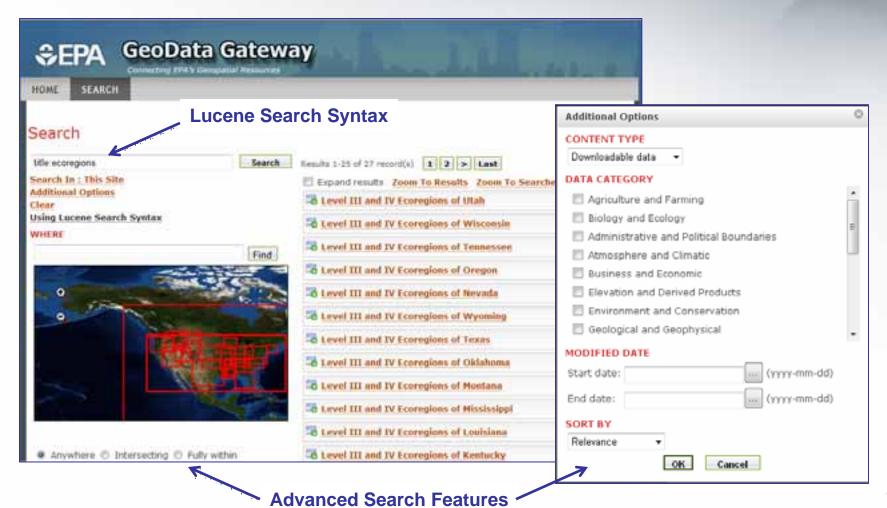
Simple Search



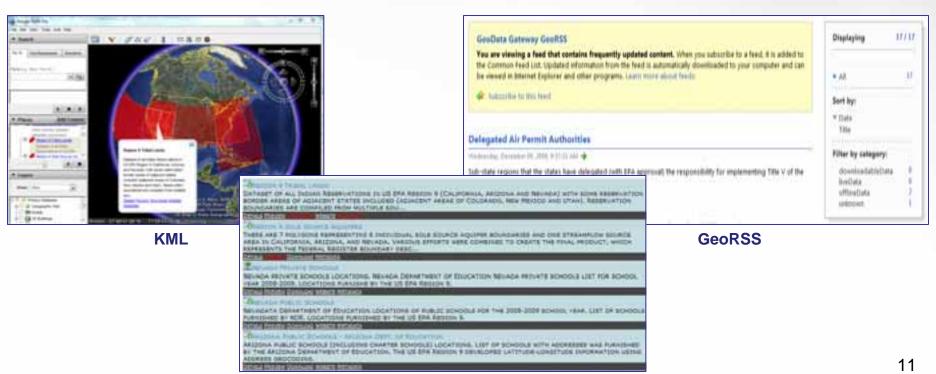


REST Outputs Displeying GeoData Gateway GeoRSS You are viewing a feed that contains frequently updated centent. When you pulsoritie to a feed, it is added to the Common Feed List. Updated enformation from the fixed is automatically downloaded to your computer and can be served in internet. Explorer and other programs, coars more about feeds. Seet by: de Salamatia to the head - Date **GeoData Gateway \$EPA** U.S. EPA Image Service for Toxics Release Inventory (TRI) Sites (Public Fifter by category: Connecting EPA's Geospatial Resources **Apprication** Participal Districtor (T. 2000), DOD 10 1000 4 downloadable bata **Evritate** HOME SEARCH This image service provides fucations of and information on sites within 89W's Toxics. Ralease Inventory (TRD, TRI contains data on annual estimated releases of over 650 toxic. chemicals to air, water, and land by the manufacturing industry. Autobrial fa... Cetals Download Website Netabea Search U.S. EPA Web Feature Service for Toxics Release Inventory (TRI) Situs (Public Version) Search Results 1-6 of 6 record(s) Search In: This Site This Web Feature service provides locations of and information on sites within BAV's Toxics. Expand results Zoom To Results Release Inventory (TRI), TRI contains data on annual estimated releases of over 650 toxic. Additional Options chemicals to an water, and land by the manufacturing industry, Industry, EPA Region 1 Toxics Release Inve Details Download Institute Michaeleta Using Lucene Search Syntax U.S. EPA Image Service for Toxics EPA Region 2 Regulated Facility Data WHERE (Public Version) Transcription (Secretary 15, 1991), A 2013 Physical U.S. EPA Web Feature Service for Toxics scelease inventor (TRI) Sites (Public Version) U.S. EPAs Geospatial Data Access Project TPA Region 2 Regulated Facility Data Enviromapper for Water See results through REST API: GEORSS HTML FRAGMENT KML View EPA REST Examples

Advanced Search Features

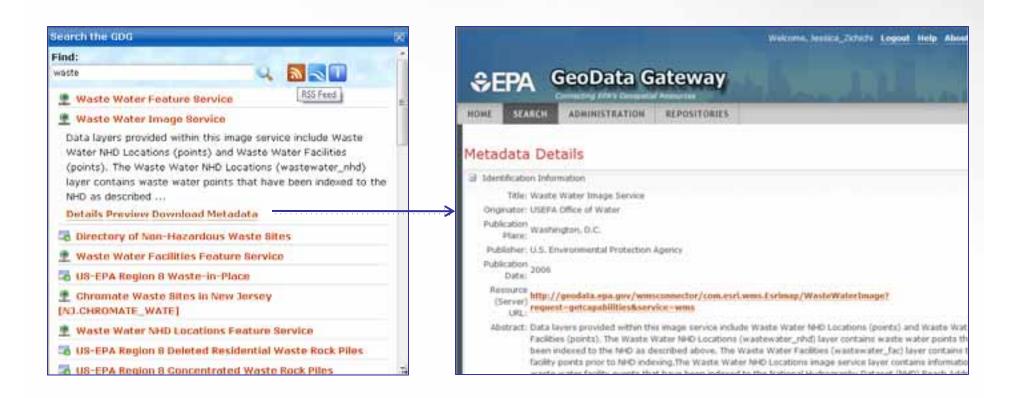


- REST Interface
 - Base URL: http://geogateway.epa.gov/geoportal/rest/find/document?
 - Parameters
 - searchText , contentType, style, f, max, xsl
 - bbox, spatialRel, contains, after, before, orderBy, geometryType, dataCategory

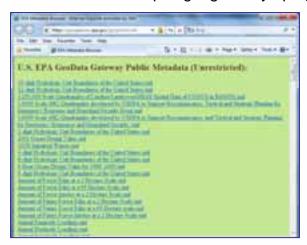


HTML

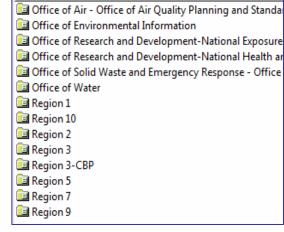
- GDG Search Widget
 - Search Plug-in for web pages/applications
 - JavaScript API: http://serverapi.arcgisonline.com/jsapi/arcgis/?v=1.3
 - URL: http://geogateway.epa.gov/geoportal/widgets/searchjs.jsp



- Additional GDG Access Points:
 - Custom Web Accessible Folder (WAF): Browse a list of EPA metadata
 - http://geogateway.epa.gov/geoportal/waf
 - 2 options: public metadata (unrestricted) or all metadata (restricted and unrestricted)
 - GDG CS-W Interface: Query the GDG using the CS-W 2.0.2 specification
 - http://geogateway.epa.gov/geoportal/csw202/discovery?request=GetCapabilities&service=CSW&version=2.0.2
 - ESRI's CSW client tool can be used as an ArcGIS plug-in
 - Metadata Service: Browse metadata records using ArcGIS desktop tools
 - Add ArcIMS Server
 - https://geogateway.epa.gov/geoportal





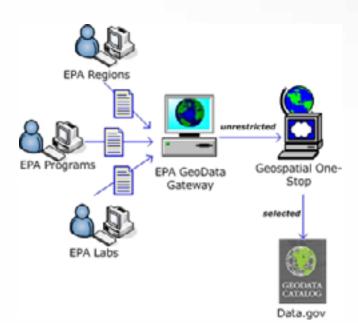


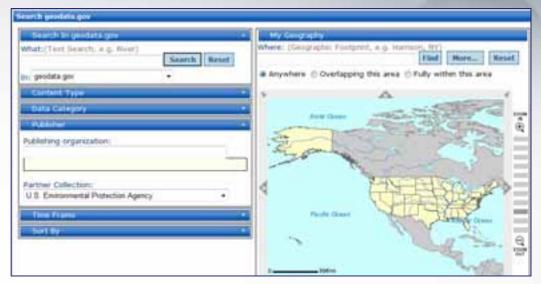
GDG WAF Pages

CS-W Client Tool

GDG Metadata Service

- Connections to External Catalogs
 - Geospatial One-Stop
 - Data.gov







Next Steps for the GDG

- The GDG will be going public
 - General public will be able to access the GDG web application and related components
 - Release planned for spring 2010



For More Information



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- EPA's National Geospatial Program
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