EPA's GeoData Gateway (GDG)

A Central Access Point for Geospatial Resources

February 18, 2010

OFFICE OF
ENVIRONMENTAL
INFORMATION

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*

How to Find EPA's Geospatial Resources

- **Demonstration**

Demo Back-up Slides

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

How to Find EPA's Geospatial Resources

- **Simple Search**

How to Find EPA's Geospatial Resources

- **Simple Search (cont'd)**

How to Find EPA's Geospatial Resources

- **REST Outputs**

How to Find EPA's Geospatial Resources

- **Advanced Search Features**

Lucene Search Syntax

Advanced Search Features

How to Find EPA's Geospatial Resources

- **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
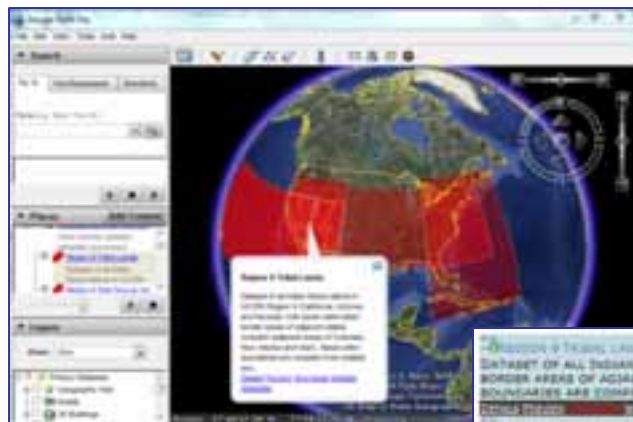
KML

GeoRSS
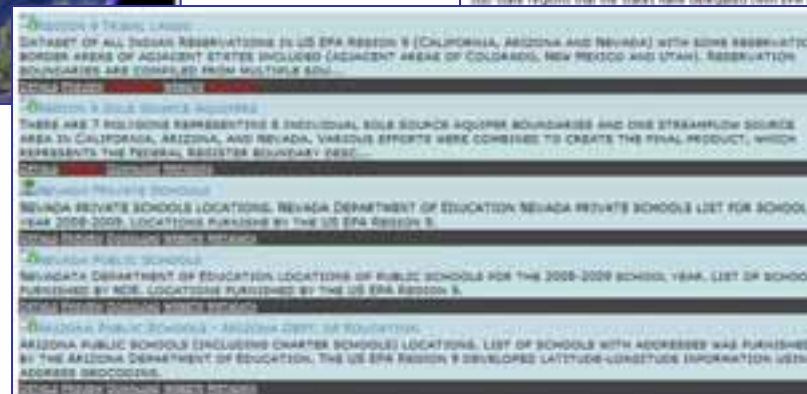
HTML

How to Find EPA's Geospatial Resources

- **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

How to Find EPA's Geospatial Resources

- **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
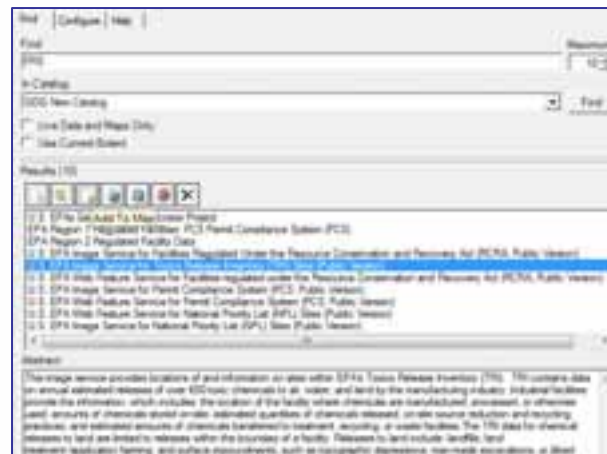   - *http://geogateway.epa.gov/geoportal/csw202/discovery?request=GetCapabilities&service=CSW&version=2.0.2*
    - ESRI's CSW client tool can be used as an ArcGIS plug-in

  - **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**
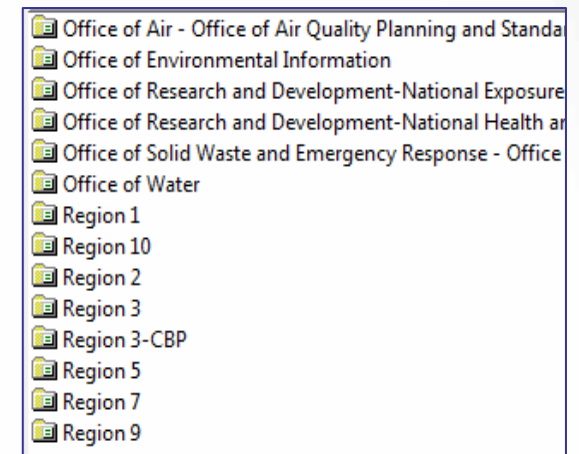
How to Find EPA's Geospatial Resources

- **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**
  - http://www.epa.gov/geospatial