Esri Geoportal Server
An Introduction
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SDI is Dead…

http://www.tweeds.no/2012/07/les-petits-roys.html
SDI is Dead…
Long Live Open Government?
Open Government Focus Areas

- Transparency – provide public with information about their government’s activities
- Participation – expand citizen’s opportunities to express their views about policy beyond elections
- Collaboration – citizens help shape the government’s agenda

Create jobs around new uses of government data
Open Government Activities

- Freedom of Information
- Open Government Directives and Agency Plans
- Data.gov and Data-Driven Innovation
- Spending Transparency
- Sensitive Information
Open Government or Open Governance?

- US Federal Government
- European Union
- National Governments
- World Bank
- Inter-American Development Bank
Support Open Government

Agencies shall take the following actions to improve the management of information resources throughout the information’s life cycle and reinforce the government’s presumption in favor of openness…

- Machine Readable
- Enterprise Data Inventory
- Privacy
- Public Data Listing
- Data Standards
- Interoperability
- Information Processing
- Confidentiality
- Open Licenses
- Engage Customers
- Accessibility
- Metadata
- Open Formats

http://project-open-data.github.io/policy-memo/
Déjà Vu, Literally “Already Seen”...
What are they looking for?

• Cool, Fresh User Experience
• Easy Access to State Data
  - Discovery
  - Flexible Data Export
• Always-on (interoperable) Web Services
• Complete Description of Data and Services
  - Metadata (sorry folks…)
• Simple Workflow to Publish from Enterprise GIS
• Freemium
SDI is Dead…
Long Live SDI?
Esri Geoportal Server
Esri Geoportal Server
Enabling discovery and use of geospatial resources in heterogeneous environments

- Search and view geospatial resources
- Manage, publish, and store metadata
- View live map services
- Download data
- Open Source
  - On GitHub
  - Apache 2.0
  - 34,000+ downloads
  - 150 countries
  - 75% outside US
Use Case: “I want to find data …”

Solution:

- Simple keyword Search
- Spatial search
- Federated Search
- Advanced options for experts
- Smart matching and ranking
- Thesaurus Service
- Search results are simple to understand… yet contain detail for power users
Use Case: “I don’t want to search though…”

Solution:
- Analogous to Department Store
- Implementer Organizes Hierarchy
- Based on Metadata Content
- Filter/Paginate Within Category
- Classification and Relationships
Use Case: “I want to make a map …”

Solution:

- Preview services:
  - ArcGIS Server Map Services
  - ArcIMS Image Services
  - OGC WMS, SOS
  - GeoRSS
  - KML

- Provide integration points for map viewer platforms
  - ArcGIS.com Viewer
  - JavaScript, Flex, Silverlight
  - ArcGIS Desktop ArcMap
  - ArcGIS Explorer
Use Case: “I want to download data …”

Solution:
- Select area
- Select data
- Set options
- Deliver download link through email

- Based on Clip-Zip-Ship Service
- Extensible in Python
Use Case: “I want to share my resource…”

• Solution:
  - Register Servers or Services Directly
  - Create metadata online
  - Upload metadata
  - Register catalog service for harvesting

• Support metadata standards:
  - INSPIRE
  - North American Profile
  - Dublin Core
  - Configurable
Use Case: “Is new data is available...?”

Solution:

• User specifies search criteria
• Give user link to a GeoRSS feed
• User subscribes to GeoRSS feed
• Bookmark searches in the browser
Use Case: “Is my resource is available...?”

Solution:

• Monitor Services
• Verify Implementation

• Performance and Scalability:
  http://resources.esri.com/enterprisegis/index.cfm?fa=performance.main

• FGDC Service Status Checker:
  http://registry.fgdc.gov/statuschecker/
Roadmap
Geoportal Server Roadmap

Version 1.2.4 – UC 2013
• Open Government Support
• Portal for ArcGIS integration
• Faceted Search
• Include Flex Viewer 3.0
• FGDC Service Checker integration

Version 1.2.2 – UC 2012
• Portal for ArcGIS integration
• Include Flex Viewer 2.5 (Apache 2.0)
• ISO 19115-2 Support (instrumentation)
• Managing User Roles
• FGDC Service Checker integration
• Shopping Cart Framework

Next
• Linked Data?
• New User Interface?
• WHAT DO YOU WANT?
Our Challenge in 2012

Coming Soon: Geoportal Server AND ArcGIS Online

- Search ArcGIS Portals from Geoportals
- Synchronize between portals
- OGC CS-W Interface to Portal for ArcGIS
- Standards-based Metadata Editor
  - Portal for ArcGIS items
  - ArcGIS for Server services
Geoportal Server 1.2.4 Release

- Search ArcGIS Portals from Geoportals
- Federate Search from ArcGIS Portal
- Synchronize Between Portals
- OGC CS-W Interface to Portal for ArcGIS
- Standards-based Metadata Editor Portal for ArcGIS items
Search ArcGIS Portals from Geoportals
Federate Search from ArcGIS Portal

- Used by NOAA, NATO CWIX2013
- Planned for GEOSS support
- Requested by Others
Synchronize Between Portals

- Geoportal as Broker Between ArcGIS Portals/Online
- Used in Indonesia NSDI, NATO CWIX 2013
OGC CS-W Interface to Portal for ArcGIS

- Harvest ArcGIS Online Using ATOM Feed
- Expose Content Through Geoportal CS-W
Standards-based Metadata Editor Portal for ArcGIS items

- Add Geoportal Metadata Editor to on-premises Portal for ArcGIS
- Used in Indonesia NSDI, NATO CWIX 2013
Faceted Search

- Additional Pattern for Catalogs
- Built together with NOAA NODC and West Coast Governor's Alliance
- Built on Apache Solr
- Release by UC
Support Open Government Formats

- Support DCAT
- Provide Patch to Users
- US Global Change Research Program Committed to Implement
What Can We Do For You?