9/25/2012

New DEQ ArcGIS Viewer

How to use it and how we made it

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How to use it:

Viewer Demonstration

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ArcGIS Viewer

- Contains a variety of data maintained and used by DEQ
  - Local DEQ Office Locations
  - Air Quality Facility Locations and Air Quality Monitoring Sites
  - Land Protection Facility Locations
  - Water Quality Data and Facility Locations
  - Data from other State Agencies
  - Base map information

- http://gis.deq.ok.gov/flexviewer/

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How we made it:

DEQ GIS Subcommittee

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DEQ GIS Subcommittee

- Membership includes GIS representatives from each Division
- Hold monthly group meetings
- Working group meetings are also held at other times
- Holds yearly officer elections

DEQ GIS Subcommittee Members

- Roy Walker – Chairman – IT Department (OMES)
- Amy Brittain – Co-Chair – Land Protection
- Heather Mallory – Secretary – Land Protection
- Toni Payne – Air Quality
- Michael Reid – Land Protection
- Sherri Tilley – Water Quality
- Joe Long – Water Quality
- Tim Ward – Water Quality
- Mark Hildebrand – Water Quality
- Matt Pace – Environmental Complaints
- Matt Johnson – Environmental Complaints
- Pam Baldwin – State Environmental Lab
- Chris Monk – IT Department (OMES)
- Rene Roy – IT Department (OMES)

What is the purpose of the DEQ GIS Subcommittee?

- Provide geospatial and GIS uniformity to the Agency
- Ensure Agency meets Federal and State requirements for geospatial data and GIS
- Establish and maintain GIS/GPS standard operating procedures (SOPs) for the Agency
- Provide annual updates to the existing statewide data layers for the Agency
- Provide educational resources and opportunities

GIS Subcommittee Goal

- Updating the old ArcIMS Viewer has been a goal of the Subcommittee for a long time!

- Original data viewer is based on old technology

- Divisions wanted the opportunity to update data layers themselves and as often as needed

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Esri Discovery Workshop

- November 2011 – GIS Subcommittee met with Esri representatives to discuss:
  - GIS Workflow
  - Data Management
  - Analysis and Planning
  - Field Mobility
  - Operational Awareness
  - Public Awareness/Outreach

Esri Discovery Workshop Follow Up

- In March 2012 Esri visited DEQ again and helped to install ArcServer 10 on test server
- Meet with GIS Subcommittee to demonstrate advantages of centralized SDE and ArcGIS Mobile
- This was the push we needed to start the new GIS Viewer project

Software

- ArcGIS Server 10.0
- ArcGIS Desktop 10.0
- FlexViewer 2.5
- SQL Server 2008
- Test and Production environments – virtual

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Flex Viewer Development

- Created SDE database for each division
- Each division imported data layers using ArcInfo
- Layer symbology was created using MXD files for each data layer.
- Map Services were generated by IT using the MXD files.
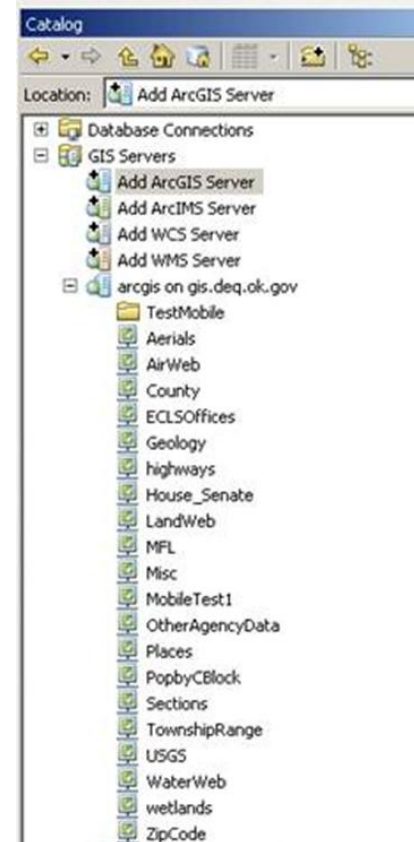- IT configured FlexViewer to use map services to display layers

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Widgets

- GIS Subcommittee members provided IT with a list of tools.
- Widgets were downloaded from the ArcGIS Code Gallery: http://help.arcgis.com/en/webapps/flexviewer/gallery.html
- IT configured widgets to work with our data
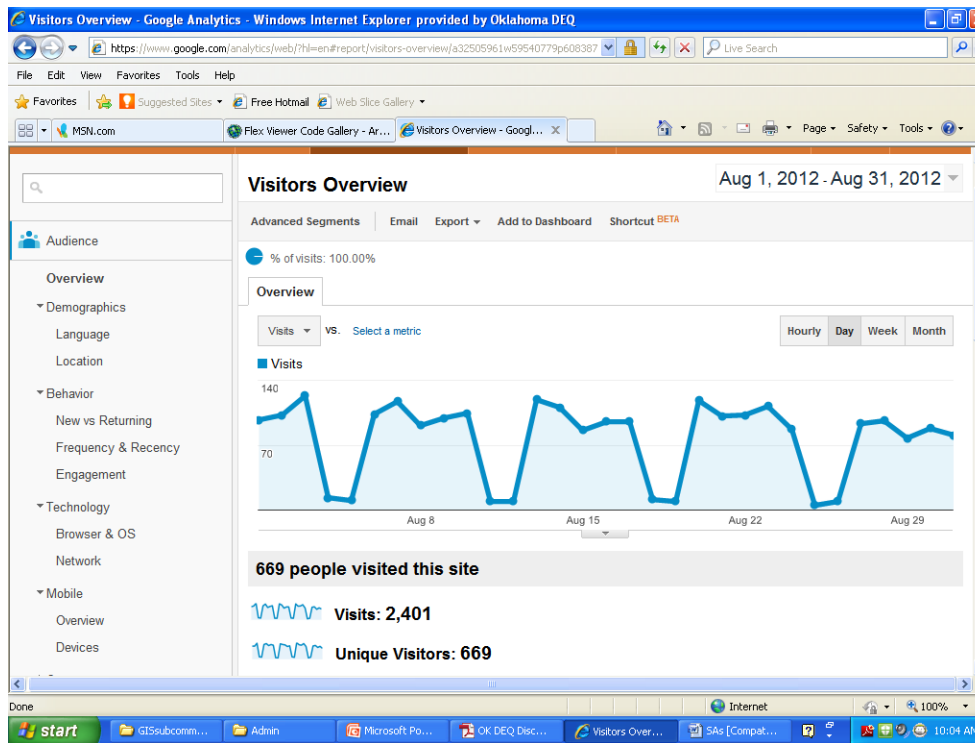- Some widgets were modified with Adobe Flash Builder to provide additional functionality

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Image Service

- http://gis.deq.ok.gov/ arcgis/services
- ArcGIS Online

Google Analytics

Issues

- Flash versions
- Caching large data sets
- Customization of widgets
- Training and software
- Workflow and database permissions
- Test environment vs. production environment
- Old ArcIMS viewer
- IT consolidation

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Future Goals

- Real time updating
- One data viewer
- Upgrade to 10.1
- Customize widgets
- Mobile App
- Project specific viewers

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Questions?

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