

FREE DATA! MSDIS GeoPortal 101 – Bang for your buck!

Mark Duewell

Missouri Spatial Data Information Service

<http://msdis.missouri.edu>

<http://msdisweb-nn.col.missouri.edu/geoportal/>

2012 North Central Regional GIS Symposium

October 24th, 2012, Trenton, MO

8:30am – 4:05pm

Why a geoportal?



- MSDIS User constructive comments...
- MSDIS review – Summer –Fall 2010
 - MGISAC members from all sections of the user community, state, federal, LGovs, Academia...
- Opportunity - (Broadband Federal Stimulus funds).

The new MSDIS site...



MSDIS - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://msdis.missouri.edu/

Most Visited Getting Started Latest Headlines MSDIS Homepage GOS - Geospatial One ... MSDIS GeoPortal Compare ArcGIS.com ... Hazards Data Distribu...

Missouri Spatial Data Information Service

Committed to the wise sharing & use of digital spatial information and tabular data sets.

MSDIS Making Missouri Available

Follow MSDIS

FTP server traffic log analysis summaries posted for December 2011 through March 2012. <http://t.co/V8Fundef> about 21 hours ago

The March 2012 MODOT file geodatabase is available. Updates are provided to MSDIS by MODOT on a 2-3 month basis. <http://t.co/J5YZTa9g> 47 days ago

The latest MODOT file geodatabase is available. Updates are provided to MSDIS by MODOT on a 2-3 month basis. <http://t.co/xS8kKmbq> 24 days ago

RU attending MAGIC event? Train from Jeff City is only \$44 roundtrip, no parking fees. Walk from Union station to Westin. [28 days ago](#)

HOME DATA WEB SERVICES COMMUNITY RESOURCES CONTACT

[Home >](#)

Welcome to MSDIS

MSDIS is the Missouri Spatial Data Information Service, a spatial data retrieval and archival system. GIS technology is emerging worldwide as the standard tool for integrated management of geographic information. Geographic information, often referred to as spatial information, can be defined as any piece of information that can be referenced by an x, y location. GIS technology enables managers and users of geographic information to achieve higher levels of information integration and to perform more complex analyses than are practically feasible in manual environments.

MSDIS is responsible for data storage and access, standardization of both digital and tabular data, creation of the data dictionary, compilation of metadata, and statewide GIS user information networks.

Where is MSDIS Located

38.945172 -92.323899 [[Driving Directions](#)] [[Location Map](#)]

Done

start MSDIS - Mozilla Firefox 12:34 PM

The MSDIS GeoPortal...



Missouri Spatial Data Information Service (MSDIS) Geoportal - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://msdisweb-nn.col.missouri.edu/geoportal/catalog/main/home.page

Most Visited Getting Started Latest Headlines MSDIS Homepage GOS - Geospatial One ... MSDIS GeoPortal Compare ArcGIS.com ... Hazards Data Distribu...

MSDIS Home Login Register Help About Feedback

MSDIS Making Missouri Available Digitally

Missouri Spatial Data Information Service (MSDIS) Geoportal

HOME SEARCH BROWSE DOWNLOAD LAUNCH MAP VIEWER

Home

Missouri's Geospatial Data Clearinghouse - Promoting the Sharing of Data and Geospatial Applications Across Missouri. Data for publishing to the GeoPortal must be accompanied by FGDC compliant .XML metadata. See [Guide to Creating and Editing Metadata in ArcGIS for Publishing to the MSDIS GeoPortal](#) (Adobe PDF 737Kb) [Click here if you would prefer to go to the MSDIS FTP site](#)

Explore MSDIS Data Repository Here:

Find Geospatial Data

Search

Enter a Keyword and Click Search to Discover Data

Participate Now...

Connect to MSDIS

- Create an Account
- Save your Searches

Share Data

- Create Metadata
- Upload your Metadata
- Publish Metadata

Done

start Missouri Spatial Data ... 12:32 PM

Advantages to the Portal...



- Download Tool – Clip, Zip and Ship

NOTE:

Also formats and re-projects data...

- Searching – SEARCH Tab
- Browsing for data – BROWSE Tab
- Admin of data and metadata

Where we are...



- Basic geoportal and Imagery Server are up and fully functional...
- Telecomm (TC) node is being tested as an exact replica of North Node (NN) – in the event of a total outage on one site - MSDIS will immediately come up on the alternate site...
- Some customization – more to come
- Continued population of more data sets as time allows

Where we're going...



- Local Government data...
- Server Virtualization?
- LiDAR data and services?
- Google? Or some other search service?
- Load Balancing?

Demonstration...



2012 – 2014 Broadband “Structures” Project...

Mark Duewell,
Missouri Spatial Data Information Service,
duwellm@missouri.edu



MSDIS
Making
Missouri
Available
Digitally

Project Background...

- Project is sponsored by Broadband Stimulus Funding through the federal government...
- Federal share = \$869,067 - \$217,000 to the RPCs
- RPC cost shares = \$7,500 (in-kind)
- Total funding = \$1,009,067
- Four previous project iterations –
SEMO/Bootheel 2007-2008
Boonslick 2008-2009) funded by FGDC/USGS
Cooperative Agreement Program (CAP) funding...
Mid-MO RPC 2001-2011

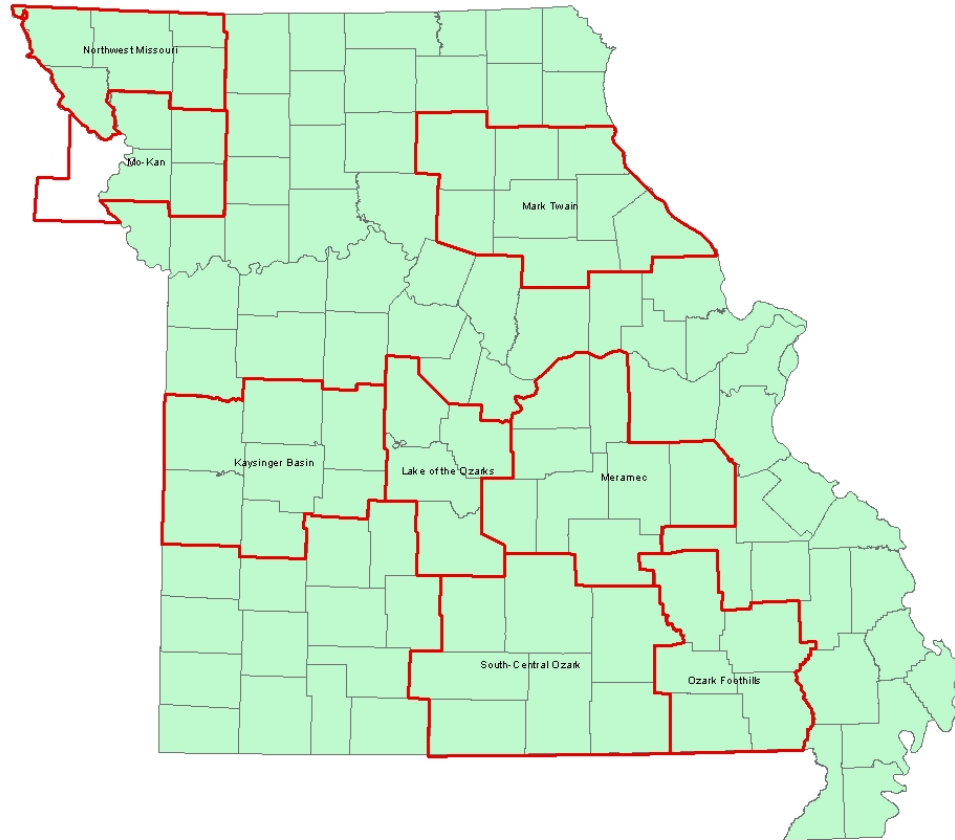
What we're trying to accomplish...

- Data sharing partnerships - designed to be maintained and current across Missouri's landscape...
- Enhanced regional working relationships - promoting geospatial decision support for emergency events and plan
- To prove the premise to state and federal entities that local government data is the not only usually the most accurate but the most timely and can best be maintained locally

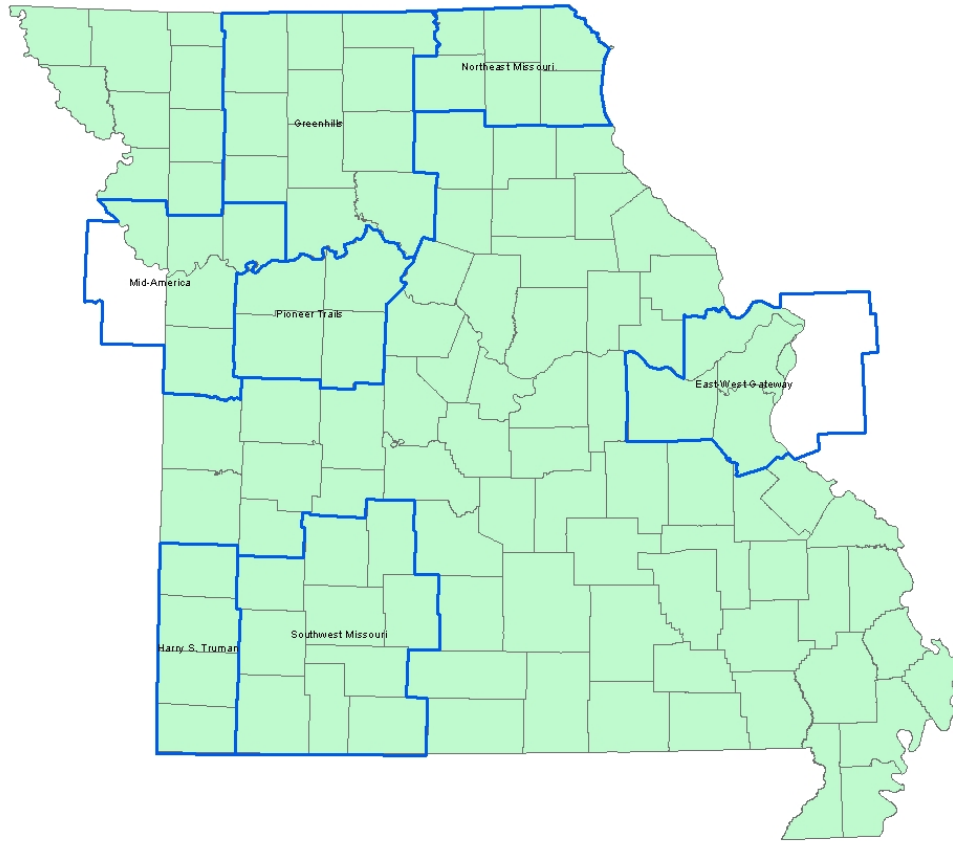
Methodology

- Regionalized local review
 - Parallel roles – Community Anchor Points for Broadband analysis, transportation plans, homeland security plans, economic development plans, etc. (multipurpose)
 - Targeted layers and attributes derived from local review and EOC input (maintenance)
 - Incentives – data, standards, tools, and \$
 - Built on existing relationships and data development partnering from prior FGDC CAP and USGS Partnership grants

First year...



Second year....



Some of the Data Layers Reviewed...

Commercial/Retail

- Wal-Mart Locations – Wal-Mart Corporate

Educational

- Public Schools – Health / DESE
- Private Schools - Health / DESE
- Higher Education Institutions - Health / DESE
- Handicap Public Schools - Health / DESE

Emergency Response / Law Enforcement

- Correctional Facilities – Adult – HSIP Freedom
- Correctional Facilities – Youth - HSIP Freedom
- EMS separate from Fire Stations – TechniGraphics (TGS)
- Fire Stations - TechniGraphics (TGS)
- Law Enforcement Agencies - TechniGraphics (TGS)

Cont...Data Layers Reviewed

Health / Medical

- Daycare – Adult - Health
- Daycare – Child - Health
- Dialysis Clinics - Health
- Hospitals – Health / TechniGraphics (TGS)
- Nursing Homes - Health
- Pharmacies - Health

Public Attractions

- Houses of Worship – Geographic Resources Center

Water

- Wastewater Facilities – Dept of Natural Resources

Value?

- Emergency events – particularly events with large scale building destruction/damage...
- Powerful in the hands of local responders but will almost certainly be the best data available to state and federal first responders...
- Response planning, Decision support, Evacuations, Search & recovery, Damage assessment and remediations

Value added...

- Urban and rural planning
- Public Safety
- Economic development
- Utilities
- Parks & Rec
- Education

Where we're at...

- Point (Locations) and Polygon (building footprints) generation workforce – currently 14 student interns – May ramp up additional staff...
- 24 months of work including summers

Thanks for your time...

<http://msdis.missouri.edu>

duewellm@missouri.edu