State of the MAGIC States
2016 MAGIC States Clearinghouse Summit

Arkansas

Technology	AWS instance using WorPress with WooCommerce front-end. Using FME cloud PostGIS for clip, zip, ship delivery. ArcGIS server for WMS/WFS services
Staffing	2 employees
Endeavors Since We Last Met	Primary focused Feature Type for address points and City Annexation incorporation
Current Activities	Working on Imagery delivery
Planned Activities	Direct load from County assessors into ASDI. Better LIDAR divery. Possibility of elimination of FME Server.
Challenges	Time
Extra Credit	What is Bob Marley's middle name?
Website	HTTP://gi.arkansas.gov
Other	

Illinois

Technology	ArcGIS Server ArcSDE – MS SQL Server IIS Drupal
Staffing	Mark Yacucci – Head Geoscience Information Melony Barrett – Geospatial Applications Developer Dan Thurston – Research Systems Administrator Janet Camarca – Remote Sensing Data Manager
Endeavors Since We Last Met	Collaboration with Illinois Emergency Management Agency and Illinois State Police on GIS data sharing during an event or disaster in the State
Current Activities	Finalizing new LiDAR Services Getting more researchers from across Prairie Research Institute to contribute datasets and applications to the clearinghouse website
Planned Activities	Getting our own ArcGIS Online Subscription (hopefully in fall), implementing a taxonomy to integrate with Prairie Research Institute websites, and metadata keywords.
Challenges	Loss of Maggie Jarvis – Web Administrator to another Campus Unit
Extra Credit	Winter Flood interactive storymap – Collaboration of data and services from ISGS, ISWS, IEMA, IDOT, and NGA http://arcg.is/1ZnmZ3V
Website	Clearinghouse.isgs.illinois.edu
Other	

Iowa

Technology	**DNR** ArcGIS Server, version 10.1 – physical server 64GB RAM Local Cloud storage. ArcSDE, SQL Server 2012, physical server WebAdapter/IIS VM **OCIO**-Geospatial Shared Services ESRI Platform on AWS
Staffing	**DNR** 1 Administrator AGS/SDE 1 Web Developer 4 Analysts Misc. staff in Programs
Endeavors Since We Last Met	**DNR** Upgrade to SQL 2012 and new SQL/SDE server, upgraded databases Currently transitioning to new AGS, debating upgrade strategy. **OCIO** Planning geospatial shared services initiative
Current Activities	**DNR and OCIO** - Clearinghouse deployment, Reviewing all datasets for transition to new DKAN clearinghouse. Many will be archived, many more offered state-wide. Integrating data into common base maps i.e ESRI, google…
Planned Activities	**DNR and OCIO** - Transition to new Clearinghouse. DKAN site in the Amazon cloud. Move data distribution from FTP to Cloud solution for static data. Initiate Clip/zip/ship for heavily dynamic data. **OCIO and Revenue** – Parcels for 97 of 99 counties, looking at common data models
Challenges	Staffing, funding, velocity of change at the state level and alignment with state mission and goals.
Extra Credit	Enterprise GIS Maturity Model survey with 14 state agencies(OCIO)

Website	https://programs.iowadnr.gov/nrgislibx/ http://programs.iowadnr.gov/geospatial/rest/services/ http://www.iowadnr.gov/Conservation/Mapping-GIS
Other	

Kansas

Technology	• Esri State Government ELA • Migrated to 10.3 on Linux • Systems – Leveraging hosting capabilities at KU Computer Center
Staffing	Ken Nelson-DASC Manager, Kansas GIO *Eileen Battles-GIS Project Manager *Kelly Emmons-Web Admin/Applications Developer *Kristen Jordan-GIS Specialist (Python, DB, Coordination, etc.) *Brent Miller-GIS Specialist (LiDAR, Image Server, etc.) Asif Iqbal-Systems Engineer Shawn Saving-GIS Specialist (Analysis, DB, etc.)
Endeavors Since We Last Met	KDOT Crash Mapper NG911 Portal & Toolbox
Current Activities	• NG911 (911 Council, PSAPs) • ORKA (KDOR/PVD, County Appraisers) • Online Water Use Report (KDA/DWR, KWO, KGS, KS Policy Board) • SSTP (KDOR) • Statewide Tax Units dataset (County Clerks) • LiDAR – 2016 delivery achieves statewide coverage, planning 2017 3DEP proposal • KDOT Crash Mapper

Planned Activities	• Kansas One Map – develop strategic plan, business plans, governance structure and policies to support Kansas One Map legislation
	• NG911:
	    o Support data maintenance and outreach activities.
	    o Coordinate with project partners to enable geospatial call routing services.
	• Develop next generation ORKA map client
	• Leverage cloud services for application hosting
	• Implement new NAS storage device

Challenges	Long term funding stability Adequate staffing and workload management/project demands
Extra Credit	* Funding for staff is possible through a combination of DASC annual budget and supporting agencies in various projects, some detailed in Current Activities.
Website	http://www.kansasgis.org
Other	

Missouri

Technology	*Telecom-P (Virtual MSDISWEB\IMG)- Dell PE720 – 2x6core Xeon 2.5Ghz – 256GB RAM. 12.6TB on board storage (RAID 5), Dell MD 3660i 180TB (120Tb useable RAID 6) external attached storage. Running* Windows 2012 R2, IIS Webserver with Apache Tomcat 7.0 servlet container. MS SQL Server 2012 R2. ESRI GeoPortal 1.2.4, ArcGIS for Server 10.3, ArcGIS Webadaptor 10.3, ArcGIS for Desktop 10.3 *MST (Kansas City) (Virtual MSDISWEB\IMG)- Dell PE720 – 2x6core Xeon 2.5Ghz – 256GB RAM. 12.6TB on board storage (RAID 5), Dell MD3660i 180TB (120Tb useable RAID 6) external attached storage. Plus two Dell MD1220 10.8Tb (18Tb useable RAID 5) external attached storage. Running* Windows 2012 R2, IIS Webserver with Apache Tomcat 7.0 servlet container. MS SQL Server 2012 R2. ESRI GeoPortal 1.2.4, ArcGIS for Server 10.4.1, ArcGIS Webadaptor 10.4.1, ArcGIS for Desktop 10.4.1
Staffing	Tim Haithcoat, Martin Wills, Tom Vought

Endeavors Since We Last Met	Moving house, reducing overhead costs, improving metadata quality, publishing services for all available imagery, reaching out to St Charles County, reducing MSDIS website complexity, statewide metadata standards workshop, addition of Lidar data for 17 new counties
Current Activities	Continuing to reduce overhead costs, finding new and better ways to serve out LIDAR, possible migration to ArcGIS Online or OpenData, exploring partnership opportunities with Mizzou Research Computing group
Planned Activities	Moving house (again), updating MSDIS website, streamlining Geoportal search feature, reaching out to other Missouri counties that have been reluctant to partner with MSDIS, expand our non-data services
Challenges	Staying on-mission with reduced staff and budget, dealing with warranties, choosing the best option for cloud/online storage, deciding where to move after Geoportal
Extra Credit	
Website	http://msdis.missouri.edu/
Other	

Nebraska

Technology	• Virtual SAN File Data Storage System (~25 TB static and dynamic data sets) • Esri – (ArcGIS and Image Server 10.4.1) • Geocortex Essentials • Hexagon Geospatial – Apollo and Imagine • Modified DKAN, MySQL, Leaflet
Staffing	• OCIO - 2 FTE 5 additional FTEs spread out through other state agencies doing agency specific

Endeavors Since We Last Met	• NebraskaMAP Released July 2016 **NebraskaMAP** • Hexagon Geospatial Apollo – Development • Statewide Parcel and Address Viewer • Geocortex Workflows and Viewers
Current Activities	• Statewide Enterprise Geospatial/GIS Plan and Implementation, evaluating cloud data hosting and SaaS • Statewide LiDAR, 100% completion of partner contribution for coverage, late 2017 delivery • Imagery, Street Centerline and Address Business Plan • Geospatial Preparedness Committee
Planned Activities	• NG9-1-1 GIS Data assessment • Street centerline and Address Point Aggregation
Challenges	• Data stewardship accountability for data and metadata completeness and currency. • Challenge to get access to public data to share statewide. • Continue to educate and build value of data and tools for broader adoption and cost savings.
Extra Credit	Broadband building coverage priority map.
Website	http://www.NebraskaMAP.gov http://nitc.ne.gov/gis_council
Other	

North Dakota

Technology	• Oracle & Esri Enterprise Geodatabase • ArcGIS Server • ArcGIS Online (AGO, named "Visual ND") • FME Server • GeoNetwork/DKAN (Hub Data Portal/Hub Portal)
Staffing	• DBAs – 2 shared • System Administrators – 4 shared, Linux & Windows • Web Developers – shared staff and Vendor Pool • Policy Makers – GIS Technical Committee • Coordinators – Bob, some state agencies • Managers – Bob, within his agency (IT Department) • GIO – nada • Analysts – Vendor Pool
Endeavors Since We Last Met	Data • 1957-1962 imagery completed • Wind turbine data from FAA Systems • Upgraded to ArcGIS Server 10.3.1 • Upgraded to FME Server 2016 • Converted AGO logins to use ADFS • Deployment of on-premise DKAN and load with data Coordination • Multiple workshops, presentations, and a webinar on importance of current city boundaries • Esri Desktop training and ArcPro webinar • UAS workshops
Current Activities	Data • NG9-1-1 boundary data workflows – focus on cities • Parcels – proof of concept with Community Parcels Systems • Move to ArcGIS Server 10.4.1 • Move on-premise DKAN to SaaS • Converting from 3-tier to 2-tier SDE connections Coordination • Continued contractor-based staff augmentation for AGO • Possible legislation for city boundary workflow
Planned Activities	Data • Complete city boundary data workflow • Publish DES centerlines and address points • Develop parcel approach

	Systems • Pilot moving from Oracle to SQL Server • Roll out DKAN SaaS Coordination • Grow use of contractor-based staff augmentation • Continued providing of training and workshops • September 2017 Users Conference
Challenges	• Lack of staff • Budget concerns
Extra Credit	Demonstrating to cities how they lose $ by not responding to Census Bureau surveys and not ensuring the state and the Census Bureau have accurate city boundaries is a real motivator for them.
Website	www.nd.gov/gis
Other	Bob Nutsch 701-328-3212 bnutsch@nd.gov @bobnutsch

Oklahoma

Technology	• Server- GeoServer 2.8.0: OGC-WMS, WFS,WCS • Metadata Manager-GeoNetwork 2.6.4 • Database-PostgreSQL 9.2/PostGIS 2.0.3 • API-OpenLayers 2.13.1 • Desktop-ArcGIS, Autodesk Map, QGIS, Google Earth
Staffing	2 persons: FTE = 0.4
Endeavors Since We Last Met	Hardware refresh. New data layers added to OKMAPS including a Statewide Parcel layer.

Current Activities	- Working with state agencies to consume real-time web services and distribute through OKMaps. - Posted first parcel layer for public consumption. - Working with e911 community to develop address point and road layers. - Working with state agencies to deliver historical photos through OKMaps. - Supporting emergency management and law enforcement
Planned Activities	Continue to expand data delivery from agencies through OKMaps. Added new LiDAR data and other datasets to OKMAPS as it becomes available.
Challenges	Keeping up with demand for services and maintaining and managing OKMaps with very limited staff support (0.4 FTE equivalent).
Extra Credit	
Website	- URLs - http://okmaps.org/ogi/search.aspx - ftp:// okmaps.org/okmapsftp IE link - ftp:// okmaps.org/ Chrome & FF link - Username: okmapsftp - Password: spamk077
Other	- Contact information - Mike Sharp, mike.sharp@conservation.ok.gov - Shellie Willoughby, shellie.willoughby@conservation.ok.gov