

GIS Users Meeting August 1, 2019 Minutes

Welcome by Everett Root, Office of Technology Partnerships, Center for Shared Solutions.

Federal

USGS – Charley Hickman- The new counties for 3D LiDAR and Elevation are Bay, Isabella, Presque Isle, Chippewa, Midland, Arenac, Gladwin and Ingham. The Ottawa National Forrest area is on an 8 year refresh cycle, but if you have funding you can go earlier, or partner for 2/3 of the cost. This can be run thru the MiSAIL Program.

Associations

MiCAMP – Brent Thelen – The Fall Conference is being planned for September 18th – 20th. Get registered by August 18th to be under MiCAMP prices. 77 people have registered. Keep in mind that the hotel price includes meals. Demo Theatre is back and the state address will be on Friday morning.

IMAGIN – Next round of meet-ups will be September 24th, in Mason.

State

EGLE – Art Ostaszewski – Drone coordinator for EGLE. Have 25 units and pilots. Doing contaminant analysis and thermo imaging.

DNR – Jessica Orlando – Parks and Recreation Division is moving to a Portal system. Learning how to transition staff to ArcPRO and from using mxd's to PRO and Portal. Want to have less static maps on the site and more interactive/Story Maps available. Trying to get better GIS deliverables with geo-referenced data.

MDOT– Frank Boston – Trying to purchase a UAV. Doing UAV flights using Southwest for bridge inspections. Playing with the control to determine the best accuracies with LiDAR and UAV's.

MDOT– Lisa Martin – MDOT Survey Section – Doing culvert collections. Partnering with Aeronautics to do Obstruction Surveys. They are collecting the ground control points. New student assistant Joe is working on culvert qa/qc and overseeing consultant culvert collection.

MDOT– Zach Tecson – Aeronautics- Integrating GIS into workflows. Flying Romeo airport next week with drones as a pilot project. Using Esri Drone to Map.

MDOT– Matt Fitch – MDOT ROW – Working with Kevin McKnight's group to get ROW maps into GIS format, by digitizing and geo-referencing starting with Allegan County. Trying to get a workflow process to get the survey grade data into ArcGIS. Need to go from Microstation to ArcGIS, back to Microstation.

MDOT– Sarahjoy Thompson – MDOT Metro Region has a new GIS unit and collaborative area used for training. Put up a new Transportation Project Data Viewer thru ArcGIS online. New PR Finder application is out. The PR field is a 7 digit text string and will also add Lat/Longs. View Works for TAMS vs Collector won a SAG award at the Esri User Conference. November 5th is GIS Day in Constitution Hall. Working on ArcGIS online. Domains can be re-arranged easily and they can be generated on the fly. Functionality is good in ArcGIS online.

MSP – Walter Chomentowski – Working on Dashboards and mobile applications using Collector and Survey 123.

CSS – Everett Root – Working on MGF upgrade. Loading parcels and address points into ArcGIS Server. Moving data into ArcGIS Portal. In the fall new data should be able to be loaded directly. 2019 Imagery flight has some leaf on issues. 2020 LiDAR flights in southeast Michigan, Thumb, Clare and Isabella. Testified in court case for EGLE concerning a road thru a wetland in the U.P. on imagery dates. Save all reports and originals as data may have to be defended in court cases. Current case law is that metadata is accepted.

CSS – Ulrika Zay – Assisting with Imagery for Parcels exchange meetings with Everett.

Regional

Bill Schlatter – SEMCOG- Doing underground structure mapping for the region using ArcGIS Hub. The sidewalk and centerline project is being checked and will be finished soon

Joan Gibson – WMRPC – Finishing up with PASER. Currently processing data. Bringing Barry County into the region.

Local

Paul McCord – Wayne County – 1 ½ year lapse in GIS in Wayne County. ESRI ArcGIS Enterprise is being set up. Hoping to improve online presence. Working on a park finder application. Want to put together an online portal for public use.

Sam Quon – City of Lansing – Meeting with Ingham County to do some collaboration, comparing Esri Insight to Analytics that the city is currently using. Moving to ArcPro. Will be going thru migration of City Works software upgrade in early September. Working on load balancing environment.

Andy Skelton – City of Lansing – Working on City Works software upgrade. Moving online maps to centralized portal. Working with Parks and Recreation Department on a River Trail inventory. Developing Dashboards for Maintenance Division, priority will be a Snowplowing Dashboard.

Anthony Kowalchick – Shelby Township – Converting systems including Emergency Management/Dispatch from CAD to GIS.

Trevor Floyd – St. Clair County – Using Map and Dashboards to show flooding areas with pictures in Algonac Area. Using QL2 LiDAR, Pro and 3D Analyst for the Dashboard Applications. Working with Surveyors to create a Re-monumentation Plan. Eliminated points will be an issue. There is interest from the Clerk to realign voter precincts with school district boundaries.

Nathan Fazer - Midland County – Went to Esri Conference, got lots of information. Old Collector application could enable tracking, new Collector application has more functionality, but it comes at a cost. Doing an Enterprise 2-day deployment with Esri. ArcGIS online and Pro have some things that are not working.

.

Brent Thelen – Calhoun County – GeoEvent Snowplow tracker is set up. It gives lat/long locations and shows roads that have been plowed. Elections results mapping being done thru automated software from Esri. Trying to use GeoEvent and purchase Network Analyst. Will wait to upgrade to 10.7 until after elections.

.

Christian Carroll – DeWitt Township – Working on programs for Police and Fire Departments. Working on Planning.

Other

Peipei Lin and Nicholas – Spicer – Testing new functions of ArcGIS 10.7 between Portal and ArcGIS Online. Doing LiDAR scanning for storm damage and working on SAW Grants.

Claire Peterson – MISIN – Using Java Script to integrate EGLE highwater data with MISIN data to create maps. Bug report in for ArcGIS Pro, can't order domains in alphabetical order, it orders them by code.

Amanda Tickner – MSU Library – Open drop in hours for Esri Tutorials. Helping with Story Map Applications, but Esri retired some older applications, but for now you can still access them. Story Map environment is shifting to Webpage or Blog format. You need to get on a list to subscribe to updates.

Kasey Wilson – MSU Library –Putting Census data into GIS for downriver district.

Laura Lake – LJB Inc. – Engineering Projects for utility management using georeferencing and Collector. Doing centerline studies. Learning to use LiDAR.

Jim Miller – Hubble Roth and Clark – Doing consultant work for SEMCOG underground structures project. Looking for existing data or developing data.

Have grant funds for both. Working on data schema for structures collecting information on pipes currently. Regional condition assessment to set up a dollar amount to have a Capital Improvement Plan in place using HUB. Doing SAW grants working under the MIC umbrella.

Ross Whitehead – Wolverine Engineering – Working on converting CAD projects to GIS.

Claudia Walters – U of M Dearborn – Reviewing the GIS Certificate Program. Working on a project on how populations move specifically Arab populations. Helping people with Story Maps. GIS Day at U of M Dearborn is November 14th.

Morning Special Topic

Unmanned Aerial Systems (UAS) use by State and Local government

Use of UAS is becoming more common in government. This will be an informal discussion covering hardware, software, technology, regulations, use cases, etc. Bring your comments, questions, and any UAS experiences to share.

Presented by: **A panel discussion of UAS professionals using UAS in support of their government units, Walter Chomentowski (MSP), Frank Boston (MDOT), and Nathan Fazer (Midland County).**

Afternoon Educational Topics

Providing ‘Highways in the Sky’ for safer drone operations

Our local government airspace is becoming increasingly crowded and automated. The FAA is setting national standards for any drone operating in controllable airspace, however, local government will continue to be responsible for the bulk of enforcement. Michael will discuss how local governments should be aware that the rules are always shifting, and the federal policy surrounding drones is likely to keep changing in the near future. Local leaders need to consider the infrastructure, technological horizon and set clear expectations regarding the approved usages and limitations of drones in their communities.

Presented by: **Michael Healander, President & CEO of Airs Space Link, Inc.**