

NYS GIS State Agency Advisory Group
Meeting Report
at NYS Thruway Authority, Building 10
September 21, 2017

Welcome/Roundtable Discussion of the Use of/Plans for Implementing the Latest GIS Software Products. The group went around the room, introduced themselves, and provided updates on the newest GIS technologies that they are exploring.

- **Eric Herman – NYSTA:** Recently implemented Portal for ArcGIS technology for their web applications, created with Web AppBuilder Developers Edition; No real use of ArcGIS Pro yet, since it requires a 64-bit operation system, which the clients do not currently have
- **Anyée Willows – NYSTA:** Latest software per Eric; Has used Portal to build NYSTA web applications.
- **Kevin Hunt – ITS (DOT):** Installed Portal 10.5 a few weeks ago, and it is currently in development/currently looking at authentication issues; ArcGIS Pro is installed for some users—Photogrammetry is interested in the 3D work with it; Also looking at Esri's Drone2Map software
- **Tim Daly – ITS (DEC):** ArcGIS Online is big at DEC for office and field data collection; In the field, using ArcGIS Mobile, ArcGIS Collector, and Survey123; Using maps in apps for public collection of data; Still mostly 32-bit office, so not a lot of ArcGIS Pro yet, but do have a few copies installed—Citrix environment will mean they'll be using ArcMap for a while; Recently started looking at Portal for ArcGIS for simpler interface users
- **Melissa Albino-Hegeman – DEC:** Doing a lot with mobile apps, with a focus on Survey123 and ArcGIS Collector
- **Chlöe Williams – AG:** As an intern in the office, looking for fracture areas with LiDAR; Use data from DEC & DOT in ArcMap
- **Peter Lauridsen – DOS:** Office of Planning, Development, and Community Infrastructure brought in Esri and ArcGIS Pro for their resilience tool; ArcGIS Pro is quite different; Connectivity issues and growing pains with transition to this
- **Tim Ruhren – ITS (GPO):** Many versions of software now running; ArcGIS Pro is used for evaluation purposes only; Server environment is starting to move to 10.5; They use Global Mapper and support MapInfo; Looking to expand to more LiDAR processing
- **Craig Fargione – GPO:** Still on ArcGIS Server 10.2.2, which is mostly a limitation of the GeoLynx application, but are looking to upgrade to 10.4.1; All users are at 64-bit, and noted that a recent memo indicated that a Windows 10 upgrade is coming soon
- **Lynne Gort – OPRHP:** Currently running Esri software at version 10.2.2; Do have ArcGIS Pro running
- **Sean Heaton – SHPO:** Using ArcGIS 10.2.2; Changes not likely in the near future; CRIS application foundation will stay the same; Working on a field data collection application and are looking at ArcGIS Collector for this
- **Mark Giddings – DOH:** Using ArcGIS Desktop 10.5, and are running 64-bit OS, so looking at ArcGIS Pro; No current use of ArcGIS Online

- **Douglas Done – DOH:** At the Bureau of Environmental and Occupational Epidemiology, using ArcGIS 10.5; Do a lot of geocoding with SAM data for most of the state; Do NYC geocoding with GBAT and GOAT
- **Arjita Rai – DOH:** At the Bureau of Environmental and Occupational Epidemiology; Geocoding with ArcGIS 10.5; Sometimes use MapMarker; GOAT is especially useful for geocoding in Queens
- **Jerry Farrell OPWDD** – One-person GIS shop using ArcGIS Desktop 10.5

Progress and Plans for Orthoimagery and Elevation Projects. Tim Ruhren provided updates on the orthoimagery project status. The GIS Program Office (GPO) has posted lot status online at <http://gis.ny.gov/gateway/orthoprogram/index.cfm>. Lot 16 is complete, and is now publically available. Lot 17 counties in the central and western part of the state should be complete by next month. The Capital District imagery should be available by the end of the year. The cache will be accessible by late winter. With the completion of 2018 imagery, all orthos will be at 1-foot resolution or better. Tim also mentioned that the federal government is currently flying NY State for its NAIP program, which is now specified as 4-band, half meter data. The USDA NAIP Imagery Acquisition Status information is at <http://usdaonline.maps.arcgis.com/apps/PublicGallery/map.html?appid=158c21bf782f4b5f99b3ec7a8a61e98b&group=d3b3e5c88ee1414a84263de24ed98b6f&webmap=9891a42dcb9b4d1db22cc0551b61f962>

Tim then discussed the LiDAR programs. Half of both Allegany and Steuben Counties will be collected soon. The southwestern part of the state is currently under review. There are currently two large federal projects underway with FEMA, and data should be available next year. At that point, LiDAR data will cover approximately 90% of the state. Future plans will focus on replacing old data with higher quality products. The state recently launched a bare earth DEM service that is available on the Internet at: <http://gis.ny.gov/elevation/DEM-web-services.htm>. This provides quick and easy access to the state's high-quality elevation data and precludes the need to obtain and store local versions of the data.

The federal 3DEP program requires pooled funding, and NY is putting in a request for a grant to work with this program. The federal goal is to provide 0.7-meter resolution data, and update it every 8 years. The 3DEP announcement page, with maps showing federal priorities nationwide, is located here:

<https://nationalmap.gov/3DEP/BAARReferenceMaterials.html#attachmentb>

Discussion of Agency Response to Lake Ontario Water Levels. Tim then led a discussion about responses and impacts to the extremely high water levels/flooding that occurred this summer in Lake Ontario. Unlike other flood events, which recede in a matter of days, this high water level event lasts for months. The GPO has been assisting OEM to deal with the impacts of the flooding. Flooding heavily affected both the areas of Sodus Bay and Greece, and the GPO has set up an ArcGIS Online service, and has been running ArcGIS Collector, to collect and analyze the data. Fire prevention specialists were able to easily pick up the tool to assist with flooding. Other agencies discussed some of their activities related to the flooding. Peter noted that DOS collaborated with USGS and DEC to monitor water levels. There will be regular data collections done from July through December. Online tools allows for real-time

searches of the current water levels. USGS flew LiDAR in the areas of Braddock Bay, Sodus Bay, and Chimney Bluff State Park to identify long-term erosion issues and study the bluffs. There's also been engagement with the Army Corps of Engineers to look at potential resilience in the Great Lakes. Many state-run campsites were under water and closed. Water releases must be carefully managed, since they can cause navigation hazards. The St. Lawrence River was also heavily affected. Tim Daly noted that although DEC has been involved in flood management, but he has not been directly involved. Douglas noted that an important take away from this event is that tools should be built to better alert people to events in the future.

Open Forum/Items of Note.

Eric noted a couple of upcoming conferences:

- NYGeoCon will take place October 17-19, at the Lake Placid Conference Center. This provides a great opportunity for NY State GIS practitioners to benefit from an in-state event.
- The NEARC conference will be in Newport, RI from November 6-8. This event is specifically geared towards Esri software users.

Tim Ruhren noted that NYSERDA did a project with DEC to map out building footprints for lower Hudson counties, and is potentially looking to do this statewide. FEMA is very interested in this type of information and Tim will try to get update for the next meeting.

Demo of GeoLynx Application. Craig then provided an overview of the GeoLynx application that the GPO is hosting. This application is available to the counties. With it, the counties are able to edit addresses and directly update the SAM data. They are also able to submit changes to the state streets file, which the GPO then uses to incorporate these into the official version. (Greene County does the street changes themselves). There are currently 26 counties using the application with a "DMS Toolbar" that GeoComm has provided for ArcGIS. The GPO also has a portal up and running, to provide updated datasets to partner agencies. Through the portal, the office posts updates to the state streets on a daily basis. They post a new version to gis.ny.gov on a quarterly basis. Two address point web services are accessible at <http://gisservices.dhSES.ny.gov/arcgis/rest/services/>. One is just the standard points, and the other symbolizes addresses based on type. These are updated twice a month.

The next meeting is tentatively scheduled for January 9, 2018 from 9:30am-12:00pm at the NY State Thruway Authority Offices. If you have any ideas for topics or would like to provide a demonstration at this meeting, please let us know. Any questions or concerns about any of these issues can be sent to the Advisory Group Chair, Eric Herman at the NYS Thruway Authority (518) 471-5890, or eric.herman@thruway.ny.gov.