



**NY State Geospatial Advisory Council
Agenda for June 14, 2016 Meeting**

at Albany State Office Campus, Building 7a, 1st Floor Conference Room

Mission: Advise the State on effective use of geospatial technology resulting in tangible benefits to NYS.

In attendance:

Alex Chaucer
Austin Fisher
Doug Freehafer
Eric Herman
Jeff Herter
David Jorgensen
Matthew Owen
Frank Winters
Ann Deakin
Todd Nelson
Jonathon Mayr
Colin Reilly
David Richardson
Mike Ross
Dick Johnston

Members Absent:

Laura Feitner-Calarco
Michael Naughton

Via Phone:

Sheri Norton
Jeff Quackenbush

Guest:

Alex Kuttesch

10:38 a.m. Meeting Called to Order

10:41 a.m. Approval of Minutes Motion made and carried to approve the minutes

10:42 a.m. Introductions

10:45 a.m. Chair Report

New contacts have been put up on the NYSGAC website. Next meeting in September will be a “planning session.” Positive discussion ensued. Also discussed holding a meeting westward each year. Eric will work with Eileen and set up a meeting in Oriskany, NY. Frank proposed having a tour of the facilities. Frank will try to set it up.

Eric discussed our governance document and if we should keep the GPO Director as note taker or note taker designee. Discussion ensued. Frank proposed motion.

Motion: The governance document be edited so that the responsibility of the notetaking be given to the Vice Chair. Motion proposed and passed.

10:50 a.m. Executive Director Report

Update on Bill Johnson’s responsibilities who has retired from State service and has taken a position in Washington DC with USAC. Bill sends his best. GIO Position is now vacant.

Frank updated the website to reflect Bill’s departure so our front facing website is current.

Frank added that it is our responsibility to bring things that have served us well through the years to give back and keep them going, and leave them better than we found them, and shape them positively.

11 a.m. GPO Director Report

Parcel update. Statewide parcel layer has been pulled together with consistent schema, and linked to RPS attributes. Every county has agreed to let the GIS Program Office (GPO) use it for emergency response and internally. 54 counties have allowed sharing with other state agencies. 14 counties have let us share it online. GPO Dir. has been selling this up the chain as an economic development benefit with the richness of the base data. Working on refresh rate (current target is annual refresh) and continuing calls and visits for opening up the data. Chemung, Chenango, Delaware, Otsego, Putnam, Rockland, Schenectady, and Suffolk don't yet allow parcels to be shared with other state agencies currently.

Street Address maintenance – rooftop mapping has been done for all structures in NYS and is now in a maintenance mode. Every county is voluntarily on board. Over 200,000 address point edits, and over 3000 street edits. Moving points, corrections, or changes in the field account for the edits. There is a tool and a type of edit code for all updates. Geolinks processing – keeping points and lines in sync. The county data is theirs but the GPO office is the steward of the data. DOT is also part of this as well.

Next Gen 911 is helping to get people on board to the new NENA standards as well. Austin Fisher asked some questions about geocoding with street aliases, and asked a specific question about routing data and using the information in emergencies. Eric Herman is working with Frank Winters to make sure specific issues are addressed with road features such as ramps for highways, making the data better. There is some copyright restrictions on some of the attributes (NavTeq, now HERE). They asked for our edits to the data and they are willing to lift the copyright restrictions on that information which will allow the GPO to share the data publicly.

NENA standard is out for public review (Cheryl Benjamin is working on this). If anyone is interested, there is an opportunity to listen in a webinar to understand nuance of NENA/FGDC standards. She recently won an award for her volunteer work on this project.

NextGEN NOW coalition update. Pushing the interest in this – having GIS location at its core foundation for routing calls rather than tabular based. NextGEN Now has put out a challenge to have this modernized by 2020. This also incorporates text to 911, video, multiple devices, and indoor locations. Rochester has been a leader in this, specifically with regard to the deaf population and making emergency services accessible to the disabled community. Map based E911 is being developed. Jason Baum is working with Albany County on some of this work. GPO Office is trying to get ahead of the GIS data that would be needed in these efforts.

Imagery Program Update: Imagery has been acquired ahead of schedule due to the lack of snow cover this winter and on budget.

2008 Strategic Plan revisit/GIS web services update: Web services is the ShareGIS project. It will be broken into 2 phases. Phase 1: NY Responds for Emergency Services. Rapidly being set up. A more resilient higher performing platform for the services currently authored by the GPO is part of phase one as well as the services authored by State Police. Phase 2: Design a best of breed services solution. All state agencies could host and maintain their own data to participate in the service catalogue.

Akana software will likely be used as the middleware (service backplane) between the servers and the public web access. Akana will also provide the service catalog. Example – geocoding being handled and monitored by Akana. Using logging of requests can also be used to find problems in

the data. The stack allows us an ability to swap out back end components and front end pieces. 3 of the 7 person GIS Core Services Team is set up.

The GPO has satisfied several requests from the Governor's Office. They see great value in data visualization. Maps are being requested more often in decision-making.

11:30 p.m. Associate Organization & Work Group Reports

- NYS GIS Association, **Colin Reilly**
 - More instructional videos to be put up.
 - Geospatial Summit will be in Brooklyn. Capacity will be ~200.
 - Looking for a few more speakers. So far...
 - Mike Flowers – Data Analytics
 - Laura Bliss – Citylab, Women in Cartography
 - Chris Tucker – MapStory
 - (possible speaker from Sidewalk Labs, Google spin off)
 - (maybe someone from Google's autonomous car efforts)
 - CartoDB folks will sponsor a post workshop/tour of their facilities
- NYS GIS State Agency Advisory Group , Eric Herman
 - Recently met, 18 attendees - most using the same GIS tools/technologies.
 - The GPO provided an update on the status of the state's LiDAR data collection activities, as well as the tax parcel data collection and ShareGIS platform. Training of the state's CIRIS application was also discussed.
 - The meeting included an overview by various attendees of different tips and tricks to use n GIS during emergencies.
 - More detailed meeting notes are posted online at:
http://gis.ny.gov/coordinationprogram/workgroups/wg_7/meetings/2016-05-meeting-minutes.pdf
- Review of Federal Report, Doug Freehafer
 - Doug shared the Federal Report
 - Big news – New Digital Topos on a 3 year cycle
 - GeoPDF format
 - Come with NAIP imagery
 - 972 quads
 - Designed for public use...there are map service for all layers. There is a base map service with topography.
 - Alex Chaucer – **proposed that perhaps making these layers accessible to NYS residents might be a project of the GAC.** Specifically, creating a version of the Topos that could be ingested into GIS easily.
 - If you are looking for federal data, check out geoplatform.gov
 - Frank Winters: Avenza's PDF Maps can allow you to view GeoPDF with your mobile device location. OHPRP is releasing maps this way, useful for hiking and outdoor navigation.

12:00 p.m. Lunch

1:00 p.m. Public Safety CCIO

Steve Campbell, New CCIO for the Public Safety Cluster

- Background in Air Force, Higher Ed Security, Emergency Response. Experience as an RIT professor. Technology advocate that meets business challenges. We are supporting their missions.
- 90 day – mark. Make assessments and make recommendations. In their spare time, the nuclear subs are mapping the ocean floor. Data visualization is key for the requests that people want.
- Filling the GIO position: Strategist thought it was a very good fit for Public Safety cluster. Project plans....internal sharing and usable dashboards.
- Initially in Public Safety, longer term at a higher level.
- GIO more strategic in nature. All clusters have GIS responsibilities.

1:22 p.m.

Providing Input into the State Elevation Program

Tim Ruhren and Jeff Langella discussed the program Topographic LIDAR. Not bathymetric. “We don’t yet have a full program, but are coordinating efforts.

Jeff is head of the data improvement group. They don’t have staff or dedicated budget. 2008 Strategic Plan – 3rd highest priority after parcels and web services. Partnered with DEC.

Floodplain mapping was driving the program at that time for floodplain updates.

2008 – a bunch of LIDAR had been flown, but for specific projects

2008/2009 – budget went into the ground.

2009 - Had so many partnerships, they kept going.

2010 – small, targeted FEMA funding.

2011 – slowed down

Ad hoc working group: USGS, USDS, FEMA, NYSDEC, GPO, NYS Museum.

- GPO is the unofficial NY contact for 3DEP.
- Let people in those areas know when areas are to be flown.
- Distribute existing data: What is already collected and processed.
- Current LIDAR inventory, and current active projects.
- Like the Ortho program, it requires unique funding models balancing interests.
- If you can get the Bare Earth Digital Elevation Models out there, you can hit MOST of the GIS uses.
- DEM status map.
- DEM Tile Downloads. – when you see data sets getting downloaded many times you know priority areas.

2 – foot contours

- They average more than 10 times downloaded on average
- Bigger files get more complaints.

Full point cloud

- Not available for download, but available by request.
- Need to be coordinated.

How to prioritize?

- Fill in the gaps
- From counties to watersheds?

- Fix older, incomplete datasets or go for complete coverage?

3DEP Specs:

- Quality level 2 or better
- <0.71 aggregate nominal pulse spacing
- >2.0 Aggregate nominal pulse density

3DEP is a national program. 3D Elevation Program.

- This is a LIDAR based program.

Saratoga County – Quality Level 3+

- Needs to be redone

US Federal Mapping Coordination SeaSketch – add your areas of interest (AOI)

- NOAA
- Army Corp of Engineers have added their areas of interest

Discussion about some specific areas in the state, specifically southern tier.

Austin: How is LIDAR data being used and how are the uses changing? Will UAS/UAV's impact this at all? Software is getting better and better, perhaps people could learn more about what they can do with LIDAR?

What are the main reasons to fill in the data?

Complete coverage, opportunities to do studies. There are lots of uses on a watershed level, buildings level. Precision farming, Insurance, Flooding. Federal Perspectives – let's redo the country in 8 years. Feds trying to pool money to get it done. For 3 Dep to give out money, they are looking for areas that have none and areas that have poor quality, and focusing on Large Areas.

Jeff Herter: Department of State has been working on a lot of resilience planning for specific areas. Mostly money for planning and data collection. Development of DOS risk areas will be used to assess assets, to make the case for data products.

Colin: Where are we on the Gartner Hype Cycle? Is there some sort of best practice as to how often it should be updated? 3DEP set the 8 year goal. Flood impacted zones change, and need to be reflow. Value of properties and buildings may impact strategic priorities as well.

In forested areas, there are land value assessments calculated based on LIDAR.

For example – the ¾ county NYS southern tier at quality level 2 would be \$1,000,000.

Eric – Can we have the indices available as a service?

Doug – USGS is working on a point cloud download solution.

Discussion Ensued.

Looking for 1, 2, and 3 year plans. LIDAR and stereo imagery.

Viewshed calculation. Community Solar for looking at shade.

[“The LIDAR News”](#) is a great resource for LIDAR research.

2:54 p.m. Updates on the DOS Gateway, Jeff Herter

- Incorporating state geocoder service
- Publicly available orthoimagery to serve on the Gateway
- Tidal wetlands maps (index, for view or download)
- Looking for more linkages between the Clearinghouse and future ShareGIS
- Alex K. is looking into crowdsourcing opportunities
 - Lifetime event recording – flood event
 - Marine debris tracker
- SeaSketch integration

Frank – The Association of Towns has been a great way to reach the local town officials, February meeting.

3:07 p.m. Items from Sectors

Eric Herman is working on a Computer Aided Dispatch application.

911 . PSAP boundaries are who to dispatch. What are these boundaries? MSAG is a tabular listing. Emergency service zones. Albany county pilot.

John Oliver, state of E911.

Topo conversation.

3:30 p.m. Adjourn (Next meeting dates 9/14, 12/13)