

**NYSAMPO Association
GIS Working Group
Friday, May 23, 2014**

Participating:

- A/GFTC – Kate Mance
- CDTC – Teresa LaSalle ☎
- ECTC – Mike Perry
- GTC – Chris Tortora
- HOCTS – Jeff Quackenbush, Erin Tylutki
- NYMTC – Munnesh Patel ☎
- PDCTC – Emily Dozier, Monica Rusko ☎
- SMTC – Jason Deshaies
- UCTC – David Staas ☎
- NYSDOT – Kevin Hunt
- RSG –Erich Rentz

Agenda:

1. Update from Kevin Hunt on NYS GIS activities
2. 2014 Highway Data Workshop highlights.
3. ArcGIS 10.1/10.2 – who is running what versions and our (HOCTS) experience with ArcGIS 10.1 Server and desktop.
4. Traffic Count Program – additional local counts coming in next 2-3 years to estimate off-State VMT
5. Pavement condition reporting – expansion of programs and data collection
6. Performance measures – what are they and how can we use GIS to manage them. Discuss topics like safety, infrastructure condition, freight movement, system reliability, etc. and how we can use GIS to analyze these and several other performance measures.
7. Training needs?
8. ArcGIS Online services – status

Proceedings

1. Update from Kevin Hunt on NYS GIS activities:

a. Accident Location Information System (ALIS) Update

- Location Coding/Data Entry (LCDE) module went into production at DMV in September 2013.
 - Quackenbush: Has the LCDE Coding changed? (No)

- Simple Query, Report, and Analysis (SQRA) and Location Editing (LE) modules went into production in March 2014.
 - Training sessions have been held with the Safety Groups at the MPOs.
 - Perry: Couldn't get access.
 - LaSalle: Did not attend; it should be done again.
 - Dozier: Not intuitive.
 - Deshaies: Need an account login for access.
 - More information and documentation is available from Andrew Sattinger (NYSDOT Safety Programs)
 - NYSDOT continues working with several other agencies on a Safety Data Integration project. Stakeholders include DMV, Corrections, Health, State Police, FHWA, others.
 - Working on safety data consolidation, will potentially release an RFP.
- b. Milepoint Local System Build:**
- Highway Data Services is conducting the construction of the GIS Milepoint network. Caitlin Clark is leading the team constructing the system on a county by county basis. (see March 2014 HiDaC presentation)
 - The goal is to create a GIS network covering all roads in NYS
 - One year extension for HPMS submission of local network requested by NYSDOT and granted FHWA. Network would be due June 15, 2015.
 - The process is not designed to be piecemeal but will result in full releases
 - For CHIPS funding
 - Deshaies: SMTC has its own roads dataset and does not use "Milepoints" yet; trying to figure out a better system
 - Hunt: Does not want to speak for Highway data services, but could make data available county by county potentially.
- c. Enterprise Linear Referencing System:**
- Implementing Esri Roads and Highways platform
 - An out of the box Esri product
 - The work is split between Hunt and Highway Data services; will be all Highway Data services going forward
 - Project Goals
 - Establishing a single representation of the NYS roadway system based on the NYS Streets file and the NYSDOT Milepoint linear referencing method (LRM)
 - Maintain the NYSDOT Milepoint and Reference Marker system using the Esri Roads and Highways workflows.
 - Patel: how does one associate their data with the Linear Reference System?
 - Discussion of Travel Time Datasets:
 - TMC Codes available through request with FHWA and NHS

- LaSelle: Having trouble getting this attached to their data
 - Here – real time traffic data
- Deshaies: SMTC is purchasing AirSage data
- Effectively integrate the NYSDOT ELRS with four NYSDOT business systems and establish the framework for integration with other business systems:
 - Roadway Inventory System (RIS)
 - Safety Information Management System (SIMS)
 - Accident Location Information System (RIS)
 - AgileAssets Enterprise Asset Management
 - Deshaies: Will the ELRS replace Winbolts? (Yes)

d. What is Esri Roads and Highways?

- Focused editing tools for LRS maintenance in the GIS
 - Hunt: Esri Roads and Highways is a software suite to maintain an LRS
 - Deshaies: Is it an extension (yes)
- Dynamic integration of enterprise business systems
- Automated synchronization of business systems with LRS
- LRS Web Services functionality for collaboration & data quality
- Roadway Characteristics Editing solution
- HPMS Reporting
- Event data may live in an external system

Lunch

1. Update from Kevin Hunt on NYS GIS activities (continued):

e. LRS benefits

- Business System Integration
 - Deshaies: where does the MPO data sit?
 - Feature Services would be provided rather than shapefiles
 - Meshes with shared GIS philosophy
- RCE (roadway characteristic editor) – web based GUI
- Schedule:
 - July 2013 - Project Kick off
 - Fall 2013/Winter2014 - Data migration and establish maintenance workflows
 - Fall 2014/Winter 2015 - System integrations (RIS, EAM, ALIS, SIMS)
 - Spring 2015 - Project Complete
 - 2015 and beyond - Continue integrating NYSDOT business systems with the ELRS

f. ArcGIS at NYSDOT

- Still transitioning from ArcGIS 9.3.1 to ArcGIS 10.1. We're getting there.
- Migration to Windows 7 still underway. ArcGIS 10.1 going on most Win 7 PCs.
- Roads and Highways will require ArcGIS 10.2 (for those maintaining network)

- Current ELA in place through 2015 (unless replaced by Statewide ELA).
- ArcGIS 10.2 licenses available to MPOs
 - Windows 8 cannot use ArcGIS 10.1 or earlier
 - Perry: ArcGIS 10.2 works great on Windows 8
- LaSelle: Had an issue with licensing for Environmental Mitigation due to 1 year expiration date
 - Hunt: Have a representative from MPO reach out to people at the state office

2. 2014 Highway Data Workshop highlights (Quackenbush):

- Worth attending for traffic and pavement scoring
 - Suggest everyone attend
- Deshaies: It takes a while to get into traffic data viewer

3. ArcGIS Status update (Quackenbush):

- Anyone using ArcGIS 10.2?
 - Perry: Using because he got a new laptop which has 8.1 which only runs ArcGIS 10.2
 - Perry: Windows 8.1 has “classic” interface which makes Windows 8 look like 7

4. Traffic Count Program – additional local counts coming in next 2-3 years to estimate off-State VMT (Quackenbush):

- HOCTS does do traffic counting; last year ~180 counts
- Can go to the DOT main office for counts
 - They can do finalized reports
 - De-Regioning of DOT; Regional offices have less control
- Counts being done by contract
- Perry: ECTC has never done counts; county has always done them

5. Pavement condition reporting (Quackenbush):

- Conditions are decreasing on all roads
- Perry: scored about 400 miles
 - Federal aid task
 - Winter decimated his roads
 - Needed to come up with a way to decide which roads to improve
 - Work allocation between County and MPO
- How long does scoring take?
 - 600 miles about 3 weeks
 - Perry: 382 miles about the same rate

6. Performance measures (Quackenbush):

- More attention to where federal dollars are spent
- Bridge management down the road may be important to get money
- Safety is very data driven
- Going forward Quackenbush will put emphasis on this
- Bring stuff to the group if you have any thoughts
- Perry: Emphasis on culverts; bias towards the county
 - Camera/GPS system isn't great
- Hyperlink pics into att table fo fc
- Application – super load on county roads
 - Great to put GIS to use
- 3 years to get all the data
- Use of culvert data to inform repairs (don't want to have to replace culvert after replacing road)
 - Hunt: ArcPad software for culvert inspection
 - CAMCI (Comprehensive Asset Management Capitol Improvement) viewer for state system has bridge/pavement/culvert data
- Will send out info on this

7. Training Needs? (Quackenbush):

- LaSelle: We have some need.
- No other pressing needs.

8. AGOL Status

- HOCTS: up to 9 named users through ArcGIS Desktop.
- ECTC: County looking at it but no use of AGOL yet.
- AGFTC: Using County license – up to 5 named users. MPO has one bike map publically available. Very interested.
- SMTC: One named user through ArcGIS Desktop purchase. Using to support Pedestrian Demand model internal for now. Looking a Bicycle Suitability Map with Bicycle Facilities. Maps are public but not advertised.
 - Deshaies: Need to be careful about what data you publish. (ie. All fields are available so you may want to dissolve or remove extraneous fields)
- GTC: Not currently using AGOL
- PDTC: Not currently using AGOL but very interested. Difficult to get help from County IT on public GIS maps.
- NYMTC: procured \$10,000 AGOL license for collaborating.
- UCTC: not yet using AGOL
- CDTC: working with AGOL through personal account. Public map for STIP. Interested in expanding use.