

## **NYS GIS State Agency Advisory Group**

### **Meeting Agenda**

at NYS Thruway Authority, Building 10 & WebEx

June 3, 2024

#### **9:30 a.m. Intro/Roundtable Discussion**

Open Source: do you use any open source software? What prevents you from doing so? What software would you like to use or know more about?

#### **In Person**

Christina Croll - Parks - no open source - except R

Lis DeGironimo - ITS - some open source software to use for data set compatibility; explore more avenues to use open source once ESRI Enterprise Agreement (EA) is launched

Jordan Garrison - Thruway Authority - currently don't use any open source software; mostly use ESRI and google products; personally use a lot of PostGRE SQL and PostGIS

Henry Kovacs - ITS; Geo; DOT - do not use open source, has not had a need but would be open to it if need arose

Molly Jordan - APA - don't use, would be open to it but needs are being met through ESRI

Emily P - APA GIS intern

Tim Daly - ITS Geo Client - many clients use R with GIS, need to explore

John Marino - NYNHP, iMap - hybrid approach; iMap - DB is postGRES; desktop Pro; scripted processes migrating into R, spatial or not, to be confident anyone can run scripts in the future

Jeff Langella - ITS Geo Data; some lidar tools that are open source; use QGIS to test web services and data, needed to edit contours for QGIS users, more testing of data

Rebecca Newell - DOS; no open source

Peter Lauridsen - DOS; don't use OS, not because they don't want to, bc of capacity

Sanjaya Kumar - DOH - RS - R and QGIS

Catherine Lawson - SUNY Albany, AVAIL - Open Source lab; geojson shop - uses QGIS, to go to geojson from shapefile; Census is using QGIS and Catherine teaches

Melissa Albino - DEC Marine R9 - use R heavily, for internal processes and quality control, through shiny apps; starting to use more of the geospatial tools, helpful bc none of her staff have

Robert (Bobby) Sayers - DEC Marine R9; mostly R, python, trying to learn shiny

Matthew Shepherd - DHP - notepad++, not much for GIS except to prepare csv's for tables into Pro; new hire with QGIS experience, may use more

Jacob Keegan - NYS Senate - first govt agency in world all code is open source, all on git hub, use QGIS a little bit, use PostGRIS, PostGIS

Stephanie Rockwell – Canals, no open source

Furrina Lee - DOH, primarily ESRI, have used QGIS

Ryan Mayr - Canals MT in GIS; mostly ESRI shop, looking to integrate more R and OS into day to day

Ken Zalewski - NYS Senate

Beth Nolan - ITS Architecture, not using open source, not off the table but haven't implemented it; not as prevalent as vendor software; some issues with posting to data center with open source

### **10:10 a.m. Topics from the Geospatial Services**

Hub Launches -

Infrastructure hub for the chamber - milestone - hub can be challenging to get the branding to display correctly - Jeff Knack from digital team; dashboard, went through accessibility testing; working with ESRI and chamber to work with agencies to incorporate their projects on next generation hub

Bond Act hub - branding - the same, was able to copy/paste into new hub site; fact sheet - projects that are funding/will be funded - in experience builder

ESRI EA - still working on implementation

Still finalizing the geospatial strategy

Developing a GIS service catalog

ESRI - EA - finalizing contract implementation details - 100 items available for agencies; managing all of those for agencies; finalizing software request and allocation process - before software can be issued - agency needs to sign off on that cost, current manual process with email to business office but will have a SharePoint site and ITSM sign off; eventual inventory system and dashboard for reporting

1 year anniversary as Geospatial Services, bring teams together and move to chief data office

NSGIC recap - Bill Johnson and Frank Winters - past presidents of this organization; 2 meetings per year, mid-year meeting in DC this year; federal day - present what they are doing and the funding that is available; NGS/NOAA - datum presentation - 2025, funding has been an issue; visit to congressman to educate on GIS and see if there is any assistance; 988 hotline; [presentations available online](#)

DC Compass with GeoAI for public engagement - use AI to ask for a map

GIS Architecture Modernization - Beth Nolan - found funding through NYS Cyber remediation program; ShareGIS, geocoding - hosting in data center, using older technology, new modernized architecture; will go through ETL server, implementing FME and looking at geojobe; setting up a portal environment for agencies that don't want to manage servers - smaller agencies will be able to leverage portal and viewer licenses; Beth will give status update at next meeting, will be hiring 4 people for this effort

Actively hiring - a few retirements, promotions into vacancies; hiring a few 18's through HELPS

Jordan - question about Hub, what is it and how do you use it?; Tim - standard hub comes with AGOL; can register a domain name for a custom URL, ESRI will configure it for you; DC open data site is a great hub site (Lis); not a true content management system, only so much you can do with static content

John Marino - what is it? service catalog - start with software requests, will expand to skill set to other things that Geo can do for them; data improvement - geocoding, digitizing; surveys; will have a suite of services - Beth - can host feature services for S123

Survey123 services that can't be hosted in AGOL, replace with portal and hosted in data center to ensure security of the data

Also provide services to local governments who do not have access to GIS; local government services

Capped vs Uncapped products - list has been finalized, each agency GIS head will get a list of what's available; all desktop software is uncapped - will just be charged annual maintenance fee

Training - make a request; divided by footprint of agency - have a number of training days allocated (what is training day allocation to Parks?) Each agency will get training. Certain number of days per year, will allocated to each agency by usage.

DEC GIS Teams group - needs for training will be increasing; trying to standardize practices and procedures

GIS team - have not convened this team yet but will to begin discussing the EA, etc

SharePoint site - has been set up for 3 stakeholder groups - SAAG, GIS team, GAC

GIS team - talk to agency lead if it's not you to discuss classes, training, etc

**10:50 a.m.      Break/Networking**

**11:00 a.m.      State Agency Demonstration**

John Marino - iMap

NY watercraft inspection steward program data

WISPA - Watercraft Inspection Steward Program application

~6 years ago put into centralized database; survey123 data collection from multiple agencies; can tap into to serve data

~15 partner organization to use platform; up to 200 boat stewards entering data; public data entering - view layers for different orgs to edit own data

Positive use of S123 and multi-agency collaboration

After 5 years - ~1.5 million data records

Results 10% of records had something attached to the gear, of those 1/2 have an invasive species detected; useful tool to prevent new infestations

Regulatory Component - Clean Drain Dry

2020 largest amount of data into program

Charts all generated into R - not spatial but standardized scripts - load annual data and run script to generate each year

Linking WISP data to occurrence data within iMap - compares known locations to waterbody; if no record, put into iMap for staff to follow up on

Spider diagrams - connectivity map - last body of water - representing connectivity to a lake; thickness of line = frequency

PRISMs use the data as well

Run the spider diagrams annually

## **11:20 a.m. State Agency Demonstration**

Stephanie Rockwell/Ryan Mayr - Canal Corps

Trails data collected by GPI 2 years ago - developed attribution

Owner/maintainer - frequently used portion of this data

ArcMap - collection with Trimble handhelds - bike, golf cart, boats - used orthoimagry, may have use AI as well for signage

Summer 2024 - current data collection with consultant; using Survey123; working within AGOL environment, getting all data real time

Shared with other people - EST, Parks

A large amount of data on canal land, important to know who owns/maintain the trail - have system available to locate people/issues on the trail based on surrounding information; mile markers are not on the trail

Working on a public view

Hub - making comments and adding photos - does make some people nervous; but it would be great to have at some point.

Mile markers - USNG/ELM system

### **11:30 State agency demonstration**

Jeff Langella - LIDAR Tools for building detection

Elevation Slide -Dutchess/Ulster/Orange/Rockland - final stages of review; Long Island - flight just completed; last collected in 2014; buildings and vegetation will be classified in Nassau Co - upgrade

Footprints

Took ownership of NYSEDA/CIESN dataset; 3/24 - released updates of 4 counties from GeoSpatial program - address points and footprints

6.7 million records

Goal - 1 service - start with CIESIN, add-in Microsoft; there are some missing buildings

Matching to rooftops, eventually buildings and SAM team will link points and polygons together

Pilot - Orange and Monroe - recent photos and recent lidar

ArcPro - automatic classification; can sometimes be problematic - hedge or tractor classified as a building; reverse select - what is no longer there and needs to be removed

Statewide effort of building permits - this would be a huge enhancement.

Question was asked if that data was captured anywhere - LD - revived as part of the governor's housing initiative but has not been picked up

Catherine Lawson - if anyone hears of upstate counties that are doing electronic form - connect with her

Building height - any plans? Also low point for things like lake Ontario flooding

### **11:50 a.m. Open Forum/Announcements**

Geospatial Summit September 23 - 24, 2024

### **12:00 p.m. Adjourn**