AIMS Coordinators Meeting Notes 8-10-17

Hosted by City of Shawnee, KS

Shawnee Open data portal and AGO – Doug Hemsath

- Can be accessed via city website
    - Maps tab goes straight to hub site
    - Moved away from AGO home site to use hub
    - Went live in May
- Examples include:
    - Construction projects map
    - Stormwater calculation map
    - Link to presentations/story maps
- Currently has two sites, one for GIS data and one just for Stormwater data
    - Stormwater site has bunch of graphs and tables created using widgets to showcase data, that site isn't live yet though.
- Data cleanup of field names:
    - It was suggested to use the alias on truncated field names in feature class so you don't have to rename fields (Esri best practice)

Esri UC Panel Discussion

Attendees included: Kirk Eidson, Jason Hrabe, Keith Shaw, John Schroeter, Blaike Davidson, Sarah Smith, Ryan Geiter, and Mark Steger

<u>Portal</u>

Everything Esri talked about needs 3-4 servers, nothing runs on just one server anymore. Esri recommends all their different products (Server, Portal, data store, geo-enrichment, etc.) on their own servers, meaning that everyone will have to budget more money for hardware. Portal almost needs a single person to administer it as all services will run through it.

Olathe mentioned that they are starting to use Portal but at 10.3. They are waiting to move to a newer version of Cartegraph because it is still at SQL 2012.

<u>Desktop/ArcMap</u>

Esri is still saying that ArcMap is going to be around well past 2020. However, Jason pointed out that Python 2.7 end of life is 2020 so that is when ArcMap should end.

Anyone having issues with draw time should also look at using indexes for symbology to help speed things up. You can also look at your spatial indexes and if the extent is smaller than the actual extent of the data it can really slow things down. These indexes do not autogrow and need to be recalculated if the extent of your data increases in size.

At 10.5.1 a new storage type is coming out that isn't compatible with 10.3 or prior versions. Basically, they are getting rid of all the joins to the geometry tables and created a BLOB field to store all the things that Esri needs. This will be an option to upgrade your feature classes by migrating storage, again. Still not a replacement for the SDE tables.

<u>Pro</u>

The Plenary session featured a top 10 in Pro but some of the things didn't get a lot of applause. One of the highlights was that ArcCatalog has been added to Pro as Catalog. The other one was having multiple instances open at the same time. Probably the coolest feature was the auto-georeference tool.

Pro still doesn't support geometric networks which is still an issue for many, including water utilities. WaterOne attended some sessions on Portal to figure out how they should be using it. LGIM is splitting the water section out to create new database for the geometric network. Others cities said they've been holding off on Pro due to the fact that it doesn't support stormwater networks.

The types of analysis they demoed at the UC dwarfs what we are doing. They even mentioned that heat maps don't really show you anything statistically, it is really just a cluster. The Hot Spot analysis is the way to go. They also talked about using R so you can do more statistical analysis.

- Other key takeaways:
  - Pro 2.1 should support the new geometric network and parcel fabric should be at 2.2 or later
  - There was a session on ArcMap to Pro conversion strategies but it did not present any strategies early enough in the talk so many attendees at the UC got up and left.
  - Licensing can be done through Portal or AGO but you can't really do both.
  - Pro 2 requires a newer version of Visual Studio.
  - Spatial data mining, space-time cube analysis, was really cool. Doesn't require deep understanding of statistics.
  - Need to understand Tasks in Pro and when to use versus Model Builder

<u>ArcGIS API for Python</u>

Jupiter notebooks (it is an open source webpage where you can create multiple packages and share with others) are being pushed for Python.

<u>Apps</u>

Navigator is one of the few apps they have that isn't free. Workforce isn't really an asset management software but more of a project management app. Survey123 links into Workforce and they seem to work really well together. This connection enables managers to understand where their crews are located at any given time. Then, everything ties back to Operations Dashboard so that you in essence have an asset management system. It also has the ability to track workers every 15 seconds so it also operates like an AVL system. Survey123 also allows anonymous users so you don't have to use a named user.

Steve Brown asked about crowdsourcing data collection during a storm event. Oakland Michigan demoed a crowdsource tool at the UC but it took named users.

Other notes:

- Operations Dashboard is being updated.
- Esri is really pushing Pro and AGO for smaller cities and use of Collector for asset management.
- The new Drone 2 Map has come a long way and has almost caught up with industry standards. One example was using drones to measure the mass of piles of dirt or salt for snow treatment.
- Coming out with CollectorX? Users will have more control over the look and feel of the new Collector.