



Esri Water User Group Meeting

Northeast

Questions & Answers

1. Is this water user group meeting going to be recorded and shared?
 - Yes, recordings, the Q&A, and additional resources will be available here: <https://go.esri.com/NortheastWUGM>
2. What is the additional cost for Utility Network?
 - The user type extension is \$200. But every desktop standard and up comes with one too now and we now included a set in the ELA's
3. Lehigh County Authority: Do you feed your dashboard from city works?
 - Yes, we currently feed data from Cityworks using the EURL feature from Cityworks. This enables you to use a feature service based on search queries from Cityworks. We also bring in GIS data and soon SCADA information.
 - Cityworks has its own dashboard functionality, most Cityworks data is displayed there. However, it is just an SQL backend and is integrated with the GIS data. So, pulling it into an Operations dashboard is possible.
4. What is the typical GIS/ CMMS annual budget for the different Utiliies??
 - Depends on the utility. I have seen anywhere from a few thousand to over a million dollars.
5. City of Cumberland/geographIT: Did you use the Database Sequence geoprocessing tool along with attribute rules to auto generate the asset ids? I am trying to use that to generate id's live instead of through a script that runs overnight.
 - No, we used SQL and Python scripting that runs every 5 minutes. The Python ArcGIS API is used to send the ID information to AGOL. The script is pretty light. It only takes a few seconds to run. The goal was to try to keep it simple and limit the layers of technology required where possible.



6. How are customers "using" the geometric network? I know about valve tracing, but what other things do people routinely "use" the geometric network for in an enterprise geodatabase? It's been suggested to us that the GN could be deleted (to facilitate a large data load we have pending) and I wonder what effect deleting the GN might do to our overall use of GIS?
 - Customers utilize the Geometric Network for the wide range of capabilities it can provide when it comes to Network Management in GIS. Yes, one of the most powerful capabilities is the ability to Trace across your network several different ways (Isolation, Connected, Upstream, Downstream, etc). The GN also provides customers with editing efficiencies, enabling editors to maintain connectivity as they true-up assets to their correct geographic locations. Cardinality Rules & Topology within the GN also enable a level of data integrity when it comes to editing, where these rules can dictate what features can be connected to another, ensuring that assets that couldn't be physically connected in real life cannot be in GIS.
 - Deleting your Geometric Network will disable all GN-related capabilities that you are currently taking advantage of. Without understanding the customer's specific use of the GN, it is difficult to say how severe the effect could be. We would recommend reaching out to your Esri Account Team and start this conversation to best help you in the long run.

7. Lehigh County Authority: For Operation's Dashboard, can you export a static/snapshot report?
 - Not Lehigh County specific, but we don't export data from Ops dashboards. However, scheduled Python scripts are often used to export the data to report templates or Excel format for easy querying by non-GIS users.
 - The above response is one way to provide non-GIS users access. We have configured AGOL to use active directory so we can group folks together and push content that is relevant out to those groups. Using the groups, we can make sure all the appropriate folks have access to the level of detail require to get their tasks accomplished.



8. How can GIS help in groundwater fluctuation analysis?

- To capture trends and analysis. 1. Capturing sample site information in Collector would provide a spatial component, eliminate paper workflows, and keep historical records of the elevation. 2. This data could be combined with rainfall records, atmospheric pressure data, and soil types to look for trends in the data. Using something like Insights can help identify these trends. 3. Dashboards can be used to help communicate the information and display changes over time and location. 4. Python scripts can be created to autogenerate reports manual or at scheduled intervals, quickly providing data with a high level of confidence and accuracy.

9. How many users utilize the Esri Utility Network or just developed their maps from scratch? How many are using ArcGIS Pro exclusively?

- We are currently migrating to the Utility Network to better represent our physical system while enhancing our capabilities within our organization to better manage our distribution system. Right now, we currently manage our Geometric Network in ArcMap. We use ArcGIS Pro for map production ... which is a rare request these days as web apps have transformed our organization.

10. Is Workforce a free downloadable app? Are there any special requirements?

- Yes, Workforce is free to download through your mobile devices app store. Please look at the Workforce Requirements here:
<https://doc.arcgis.com/en/workforce/faqs/requirements.htm>

11. City of Cumberland/geographIT: Could you use Survey123, Collector and Workforce to automate the collection of Break Reports and the placement of the Break on the map?

- Absolutely. I am actually doing that exact thing with a different client. For them, all we are using is Collector and Operations Dashboards. Feel free to reach out if you would like a demo of what we are doing with leak data.
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