

REGIONAL GIS MEETING

May 13, 2025 - 8:30am - 4:00pm
NCTCOG - CPIO - Transportation Council Room

MORNING SESSIONS

9:00am **Welcome & Spatial Data Cooperative Program Update - Shelley Broyles - NCTCOG**

9:10am **Putting the 'R' in RIS - Sarah Jackson - NCTCOG**

The Research team at North Central Texas Council of Governments (NCTCOG) produces a range of products that are used internally and externally throughout the DFW region. The development of these products can span years and are often produced simultaneously. This presentation will give an in-depth look at the team, their ongoing projects, and the impact these products are having on the NCTCOG region. Sarah will also provide instructions on how to access and use the data produced by the research team.

9:40am **Exploring the New Enhancements in ArcGIS: Spring 2025 Release - Christopher Watlers & Riley Nolan - ESRI**

This Spring, Esri is excited to unveil the latest versions of two foundational products: ArcGIS Pro 3.5 and ArcGIS Enterprise 11.5. ArcGIS Pro 3.5 focuses on enhancing quality, performance, and productivity, driven by user feedback that highlighted the importance of reliable tools over new features. As a result, we have prioritized refining existing tools while also introducing new enhancements. Meanwhile, ArcGIS Enterprise 11.5, available on both Windows and Linux, is a long-term support release that brings a host of new features and sets the stage for the next generation of ArcGIS Enterprise. This release will be the final installment of the 11.x series, offering a robust foundation for future migration. Join us in exploring these exciting advancements and improvements!

10:25am **Digital Doodle to Digital Twin: A Strategic Approach to Utility Mapping - Chris Akin, GISP - Paratum Solutions**

Is your city ready for a "Digital Twin"? Many utility owners aren't prepared to tackle the cost and effort to jump into the highest-quality representation of real-world utility assets. In this presentation, we will walk through a systematic process to guide you through accurately documenting your utility data. Starting with what we call the "Digital Doodle," each stage allows you to have centralized and usable data, see an immediate ROI, and have a blueprint and buy-in to move forward.

10:55am **Finding Ways to Visualize Risk: GIS viewers that can help communities see their potential hazards – Ethan Guyer - AECOM**

Government agencies have many different viewers that show current and future hazards that communities might be vulnerable to. Some of the viewers display flood data, wildfires, tornados, and structures that are at risk. Presenting on these viewers can help give awareness to resources available and how communities can mitigate the risk.

AFTERNOON SESSIONS

1:00pm **Navigating PFAS Regulations: The Trinity River Authority's Approach - Gigi Garcia - Trinity River Authority**

Our presentation begins by introducing TRA's services and the existing dynamic between TRA and its customer cities (regarding pretreatment services). We go into PFAS, what PFAS is, how it affects us, and the regulatory timeline that has sparked proactive initiatives from TRA. These proactive initiatives are described, among which is the PFAS Survey, the main focus of our presentation. The presentation includes details about the contents of the PFAS Survey and how we delivered it to facilities. Then, we went through how GIS helped us filter out a majority of the non-applicable facilities from the large facility list we received from our mailing list provider. We used internal GIS data and external zoning maps from customer cities to carry out this filtering process. The challenges we encountered and future hopes for the results of our PFAS Survey are presented as the concluding portion.

1:30pm **Roanoke's Gun / Drug / Gang Free Zones App - David Allen - City of Roanoke**

The Texas Penal Code establishes law enforcement zones where weapon, drug, or gang crimes receive enhanced punishment. The zones are based on proximity to things like schools, playgrounds, daycare centers, and more. In order to include these zones during prosecution it's important to show what zone is being invoked and how it was derived. I'll show the process for making the basic GDG Free Zone map as well as the Arcade coding involved in the online reference map officers can use to verify into which zones a crime scene may fall.

2:00pm **Estimating Employment With Nighttime Lights and Transportation Data Using Machine Learning - Mark Folden - NCTCOG**

NCTCOG has generated the Small Area Estimates for several years, and the employment portion of this data product has always been a particular challenge. Tremendous manual effort plus new data sources are creating an opportunity for tremendous savings in staff time and effort in generating this data.

2:45pm **GIS - Off the Clock - Franklin Barber - Collin County**

I started using my drone to document wildfire damage in Farmersville and was successful at creating layouts from my imagery with basic manual georeferencing to place the imagery on ArcGIS Pro. Since then, I have found a couple of inexpensive programs that when used together can create 3D maps and ortho-mosaics with a couple clicks and a bit of patience with my old computer. This presentation will cover the previously mentioned wildfire mapping and some other "just for fun" projects that I'm currently working on.

3:15pm **DFW Discovery Trail Regional Project - Victor Gutzler & Kevin Rodriguez - City of Arlington**

This presentation is about Arlington's connections with the DFW Discovery Trail regional project. Presenters will give an overview of the scope of the trail itself (from the Discovery Trail website) and then give status and pictures of the bridge on the west side connecting with Fort Worth and the highway underpass on the east side connecting with Grand Prairie.

URISA MAPPY HOUR

4pm - Cartel Taco Bar - 506 E Division St #150, Arlington, TX 76011