REGIONAL GIS MEETING

Dec 10, 2025 – 8:30am – 4:00pm

Traphene Hickman Library – City of Cedar Hill

MORNING SESSIONS

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

9:10am **Winter Weather Solution: Using GIS to Plow through Snow & Ice Events** – Emma Leary - NTTA

Effective winter weather response requires timely, accurate, and actionable information. This presentation showcases a custom-built GIS Experience Builder application designed to streamline and visualize real-time winter weather operations for our Tollway System. Field data is rapidly collected using ArcGIS QuickCapture, while ArcGIS Velocity processes this input—along with maintenance crew call-ins—in real time. This ensures the dashboard reflects up-to-date conditions, including roadway accidents, material requests, and equipment status. By centralizing and visualizing this critical information, the app enhances decision-making, improves communication across teams, and supports safer, more efficient winter weather operations.

9:40am **GIS for Parks & Recreation: Implementing 3D Interactive Maps for Enhanced Recreational Experience –** Robbie Highfield, AICP – City of Fate

The City of Fate recently created a 1st iteration of a 3D, navigable, interactive map to promote The Cedars Disc Golf Course, located within Robert Smith City Park near City Hall. The City utilized ArcPro to build out a Local Scene using field survey data and satellite imagery, then hosted them on ArcOnline as a WebApp. This presentation will go over the data collection and GIS integration process, hosting and delivery process, a tour of the Interactive Map, and finally next steps for future iterations. A Q&A session will complete the presentation window.

10:05am **Transit-Based Healthcare Accessibility for Publicly Insured Populations in Dallas-Fort Worth Region –** Mahda Hamisi, MSc - UTA

This presentation examines spatial inequities in access to healthcare facilities across the DFW Metroplex using advanced GIS-based accessibility modeling. Using ArcGIS Pro, I developed a time-dependent transit network (integrating GTFS data from DART, Trinity Metro, and DCTA) to calculate transit travel times to hospitals and clinics by using public transit and then ran an OD cost matrix to check the availability of those facilities. I then applied the Enhanced Two-Step Floating Catchment Area (E2SFCA) method to estimate accessibility scores that account for specialist capacity, travel time, and distance decay. The analysis highlights how race, income, and vehicle ownership intersect with geography to shape access to care among Medicare and Medicaid beneficiaries.

10:45am **LANDMARK - Enhancing Public Access with Denton County's Interactive GIS Application –** Ranish Shakya – Denton County

Landmark is an interactive, web-based mapping application designed to provide comprehensive geographic information about Denton County. It allows users to access multiple data layers—such as public safety boundaries, county-maintained roads, parcels, political districts, development permits, and aerial imagery—enabling detailed spatial exploration and analysis. Its intuitive interface allows users to control layer visibility, transparency, and style, as well as reorder and search layers for efficient data management. Users can perform targeted searches for addresses, parcels, development and culvert permits, roads, and schools, with results displayed in an organized panel that offers export and bookmarking capabilities. *Landmark* is continuously evolving, with future developments aimed at expanding reporting capabilities and adding new tools to meet the growing spatial needs of Denton County.

11:10am **Innovating GIS with AI Assistants** – Pamela Kersh - ESRI

In GIS, AI assistants offer a compelling opportunity to democratize what is already a powerful technology. They stand to make geospatial understanding more accessible to a wider audience and empower users of all skill levels to tackle complex challenges. This presentation covers the AI capabilities in ArcGIS.

AFTERNOON SESSIONS

1:15pm **GIS Throughout! Utilizing GIS in Bond Programs** – Anthony Cisneros & Cauner McDonald – City of Fort Worth

Explore how GIS shaped the City of Fort Worth's 2026 Bond Program! City staff utilized GIS analytics to prioritize projects and foster public engagement, transforming over $2.5 billion in capital infrastructure requests into a streamlined $840 million bond program. Discover how this data-driven, community-focused approach will deliver impactful results for all. This session is ideal for planners, civic leaders, and professionals seeking to maximize GIS potential.

1:40pm **City of Granbury ArcGIS Enterprise Deployment -** Ian Patrick, MS, GISP – City of Granbury

This presentation will give an overall description of our enterprise deployment and machines. Things we have found that work and things we have found that were unnecessary or non-functional. Where we would like to go moving forward.

2:00pm **Building the Zone Lookup Instant App in Experience Builder: A Live Demonstration** – Jeffrey Thompson – City of Arlington

Experience Builder is a powerful tool. Using it is not always straight-forward. Let's learn some Experience Builder tips and tricks while we build a version of the Zone Lookup Instant App, live on stage.

2:45pm **Adapting Travel Demand Modeling Networks for Use in ArcGIS** – James McLane - NCTCOG

Travel demand models follow a series of well-established procedures to forecast demand on transportation facilities using transportation networks and demographic forecasts as inputs. These models predict key performance metrics like volume, travel time, congestion, and transit ridership, allowing for testing of different growth and investment scenarios. They are therefore a key tool in a transportation planner's arsenal, and the outputs of these model runs are incorporated into NCTCOG's long-range transportation plans. However, these models are typically run in specialized modeling software that does not always work well with ArcGIS. NCTCOG's Transportation department has been working on new methods to convert these networks from the proprietary formats used by modeling software into ArcGIS network datasets. The resulting network datasets are being used for a number of different analyses including routing and travel time contours. While not as detailed as network data from other sources, the ability to perform network analyses on plan-official model runs is valuable communication tool to help explain the region's transportation needs.

3:10pm **Optimizing Infrastructure Decisions for Sustainable Growth** – Brent Wilson, IAM, eBCP – Woolpert

Effective asset management is critical for organizations seeking to maximize performance, reduce costs, and extend the lifecycle of their infrastructure investments. Trimble's Lifecycle Asset Management and Decision Optimization Technology (DOT-US) provides a data-driven framework that integrates asset condition, risk, and financial modeling to support smarter, more sustainable decisions. By leveraging advanced analytics and optimization algorithms, this technology empowers stakeholders to prioritize investments, balance short-term needs with long-term goals, and achieve measurable improvements in efficiency and resilience. This presentation will explore how Trimble's solutions enable organizations to transform asset management from reactive maintenance into proactive, strategic planning—delivering value across the entire lifecycle.

URISA MAPPY HOUR

4pm | Touchdown Sports Bar & Lounge | 1409 N Cockrell Hill Rd, Ste100 | DeSoto