REGIONAL GIS MEETING

December 6, 2023 – 9:00am – 4:00pm
City of Roanoke
City Hall – 500 S. Oak Street

MORNING SESSIONS

9:00am	**Welcome & Spatial Data Cooperative Program Update -** Shelley Broyles – NCTCOG
	Brief overview of the Spatial Data Cooperative Program, results of recent strategic planning analysis and what's happening with the program now and in the future.
9:20am	**The State of GIS in Roanoke -** David Allen, GISP – City of Roanoke
	The City of Roanoke has had GIS capabilities for about 6 months. While there were existing datasets for some of the utilities and zoning, for the most part this whole system started from scratch. In this presentation I'll show what's been accomplished to date and demonstrate some of the Esri templates as well as the custom apps that have been created.
10:00am	**Highlights of ArcGIS Online Fall 2023 Update -** Sean Gill – ESRI
	The October update for ArcGIS Online brought several new capabilities and exciting enhancements. This session will cover many of the highlights for the Map viewer, administration capabilities, and multiple apps.
10:40am	**The Book of Dashboards** - Suzanne Whitcomb, GISP & Jose Quintana – City of Little Elm
	Through a story map presentation, the audience will get a look into how we use dashboards across all types of departments from engineering, public works, development services, planning, and parks.
11:10am	**Mapping Households for the Decennial Census: Why every county should participate in LUCA** - Angela Broyles – Texas Census Institute
	Did your entity participate in LUCA? This presentation will show how participating in the Census's LUCA program yields better census results, better data and could yield more federal funds.

AFTERNOON SESSIONS

1:15pm **High Accuracy Data Collection for Utilities with ESRI Field Maps –** David E. Pritchard – Texian Geospatial

This presentation will discuss implementing Esri Field maps for water and other utility systems using high accuracy data collection.

1:45pm **How High-Resolution Satellite Imagery & Change Detection Can Change the World –** Chris Wilson - Planet

Remote sensing using satellite imagery has emerged as the most cost-effective approach for evaluating change over large areas. As AI continues to revolutionize workflows, state and local governments are leveraging models that provide change signals through object or feature detection. Local governments can use change models to enhance their data pipelines for many areas including: emergency management, disaster response, land use, permit enforcement, property assessment, right of way management, vegetation and irrigation management, and economic development. This session will provide examples for each use case.

2:15pm **Revolutionizing Walk Audits: From AARP's Paper Worksheets to Digital Insights with Survey123 –** Bernardo Salazar, AICP, GISP – Urban Data Scientist

The traditional paper AARP Walk Audit Worksheets have long served communities looking to enhance livability and pedestrian-friendliness. While these paper-based tools are functional, their low-tech nature limits scalability, accuracy, and immediate data analysis. In this presentation, Bernardo will share how he successfully transitioned these worksheets into digital Survey123 forms.

2:55pm **Building Remote Sensing Workflows with Google Earth Engine –** Matt Hiland, PMP – The Sanborn Map Company

An overview of Google Earth Engine, available datasets, and powerful capabilities to support environmental and other remote sensing applications.

3:25pm **Census-based Public Water System Population Estimates 2010, 2020** - Amanda Covington & Emma Jones – Texas Water Development Board

The Projections and Socioeconomic Analysis (PSA) team of the Texas Water Development Board (TWDB) is responsible for developing annual and projected population estimates for Utility Water User Groups (WUG). The majority of WUGs are comprised of one or more Public Water Systems (PWS). Following each decennial Census, PSA staff evaluate the relationship between Census block-level total population, group quarter population, and housing unit counts with current PWS boundaries. This presentation will cover how final estimates for each system are chosen based on a best-fit model which incorporates the geographical minimum and maximum population, historical data, Census place data, and the Census-based estimate and how the final PWS estimates are aggregated by WUG and split by Regional Water Planning Area, County, and Major River Basin for further planning and analysis. Lastly, the presentation will also discuss assumptions and limitations of the methodology, and challenges of estimating population for each PWS.

URISA Mappy Hour

4pm | Jack & Grill | 301 S. Oak Street | Sponsored by New Edge Services