GEOGRAPHIC INFORMATION COORDINATING COUNCIL

SPRING 2025 QUARTERLY MEETING

2025 NC GIS CONFERENCE

Check In and Get Ready!

CHECK IN QR CODE

MENTIMETER QR CODE







GEOGRAPHIC INFORMATION COORDINATING COUNCIL



Council Members

City of Greensboro GPI Department of Justice Colliers Engineering • U.S. Environmental Protection Agency Governor AECOM Person County • University of North Carolina at Charlotte Cape Fear Council of Governments • N.C. 911 Board Senate Charlotte Water **CBRE**

Duke Energy

Retired GICC Chair

CACI, Inc.

House

Statutory Members

- N.C. Association of County Commissioners
- Office of State Budget & Management
- Department of Information **Technology**
- Department of Environmental Quality
- University of North Carolina System
- Department of the Secretary of State
- N.C. League of Municipalities
- Department of Administration
- Department of Commerce
- Department of Revenue
- Public Utilities Commission
- Department of Public Safety
- Department of Agriculture & Consumer Services
- City of Greenville
- Department of Environmental Quality
- Department of Transportation
- N.C. Community College System
- Department of Public Instruction



Department of Health and Human Services

Who We Are

We represent the North Carolina GIS Community





GICC COMMITTEES







FEDERAL INTERAGENCY COMMITTEE (FIC)



Who We Are & Our Objectives

Any federal employee or contractor

- I. Establish a forum for federal government GIS users and geospatial data producers in North Carolina to share knowledge and ideas about GIS policies, geospatial data, technology, applications, and related information.
- 2. Inform federal government users of geographic information about the status of GIS activities in the state and the actions of the Council.
- Promote NSDI initiatives in North Carolina.





What We Do

Federal geospatial program updates

- Update state on grant opportunities
- Update on federal datasets updates within NC
- □NSDI updates

Coordination for data and collaboration

- Coordinated with NC to develop landcover
- □ Coordinated with Hydro Working Group to inform about updates to 3DHP program
- □State/Federal coordination





Plans and Goals



Expand Federal to State direct connections



Expand Federal to Local direct connections



Continue updates on federal programs and grant opportunities



Continue existing coordination







North Carolina Department of

PUBLIC SAFETY



NCDOR























STATE GOVERNMENT GIS USERS COMMITTEE (SGUC)





Who We Are & Our Objectives

Any state government employee

- I. Establish a forum for state government GIS users and geospatial data producers to share knowledge and ideas about GIS policies, geospatial data, technology, applications, and related information.
- 2. Inform state government users of geographic information about the status of GIS activities in the state and about the actions of the Council.
- 3. Identify, recommend, and communicate adequate planning, standards, and quality controls for the implementation and operations of GIS in state government agencies.
- 4. Assist the Council in coordinating the management, application, and sharing of GIS resources and services.
- 5. Promote training and the use of GIS services and resources in support of agency operations.





What We Do



ESRI Enterprise Agreement – software



Workforce development- ESRI training



Best Practices – Authoritative Badging



Information Sharing – Technical presentations



GIS Support - ArcGIS Administrators



Promote GIS – Value of GIS StoryMap



Plans and Goals

GIS Job Classification Training/
Knowledge
Sharing

State/Local & State/Federal Collaboration

UAV/Drone Resources

ArcGIS Online Administration

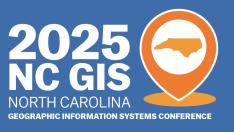
Enterprise
Best Practices
Sharing

Promote the Value of GIS





LOCAL GOVERNMENT COMMITTEE (LGC)



Who We Are & Our Objectives

Any municipal, county, or regional government employee

- I. Establish a forum for organizations that represent local government GIS users and geospatial data producers in North Carolina to share knowledge and ideas about GIS policies, geospatial data, technology, applications, and related information.
- 2. Inform local government users of geographic information about the status of GIS activities in the state and the actions of the Council.



Executive Committee

- Association of Regional Council Executive Directors
- Carolina Chapter of the Urban and Regional Information Systems Association (CURISA)
- NC Association of County Commissioners
- NC Chapter of the American Planning Association (APA-NC)
- NC League of Municipalities
- NC Local Government Information Systems Association (NCLGISA)
- NC Property Mappers Association (NCPMA)



What We Do



How to promote the value of GIS



Technical sessions:
Transition to Experience
Builder Tips and Tricks



Applications of remote sensing in local government



GICC updates and feedback



Local government solutions: Lead pipes, Utility Network



Community Resiliency



Plans and Goals

Prepare for the 2026
Datum Change

Website refresh

Deploy Contacts website

Identify opportunities for regional collaboration/assistance

Promote local data updates

Provide outreach to support GICC initiatives

Blue Sky/Grey Sky disaster response resources

Promote the value of GIS and the profession





STATEWIDE MAPPING ADVISORY COMMITTEE (SMAC)



Who We Are & Our Objectives

Objectives:

- Consolidate information on SMAC work plan activities related to policy and procedures for geospatial data distribution, technical standards, funding, statewide geospatial data collection, and base and image mapping requirements for use by the Council for preparation of the annual report to the Governor and the Joint Legislative Commission on Governmental Operations.
- 2. Inform users of geographic information about the status of GIS activities in the state and the actions of the Council.
- 3. Promote and gain statewide support for funding cooperative programs among local, state, and federal governments, and other appropriate organizations.
- 4. Serve as a member of the Council through the SMAC chair and advise the Council on issues, problems, and opportunities relating to GIS in North Carolina.

Permanent Members:

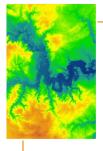
- Director of the Department of Transportation/GIS Unit
- Director of CGIA
- State Photogrammetric Engineer
- State Geologist
- Chief of the State Geodetic Survey
- The US Geological Survey's state representative

Additional (non-permanent) members:

- Two representatives of the State Government GIS Users Committee
- •Two representatives of the Local Government Committee
- One representative of the Federal Interagency Committee
- One representative to be named by the NC League of Municipalities
- One representative to be named by the NC Association of County Commissioners
- One representative of the university system
- One representative of the Department of Cultural Resources, Division of Archives and Records



What We Do



Support development of statewide hydrography with NCDEQ, NCDOT, stakeholders



Enhance statewide parcel data updates through more consistent field attribution



Provide an easier way for local gov't to submit municipal boundaries/annexations



(Accomplished) Prepare and adopt elevation business plan to update and maintain LiDAR data (adopted by GICC 11/13/24)



Recommend Landcover data update products and support funding partnerships



Develop Building Footprint Business Plan



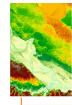
Working Groups



Seamless Parcels



Orthos and Elevation



Hydrography



Building Footprints



Municipal Boundaries



Addresses



Transportation



NCGICC

Metadata



Landcover



2022 Reference Frame



Census



Board on Geographic Names **2025**



Plans and Goals

FY2024-2025 SMAC Workplan

- Continue to support hydrography development
- Work with county tax administrators and CAMA vendors to directly populate statewide parcel attributes

FY 2023-2025 GICC Goals and Priorities

- Continue to prioritize hydrography, administrative boundaries, elevation, building footprints
- Work with state agencies to make GICC priority data sets discoverable through NC OneMap
- Promote geospatial metadata through training resources and implementation





TECHNICAL ADVISORY COMMITTEE (TAC)



Who We Are & Our Objectives

Objectives:

- I. Review and recommend specifications for directing and coordinating the implementation and use of GIS from a statewide perspective. Relevant items for GIS TAC research should include:
 - Standards and Guidelines Detailed specifications to ensure interoperability of hardware, software, and databases, and to facilitate data exchange.
 - Implementation Strategies Approaches or guidelines for developing, installing, and managing the components of the GIS infrastructure.
- 2. Provide technical advice, expertise, and leadership to the Council. Specific technical issues will be anticipated, reviewed, researched, and evaluated; and appropriate recommendations will be submitted to the Council for final approval.
- 3. The findings and recommendations of the GIS TAC shall complement and align, when practical, with the policies and standards of the National Spatial Data Infrastructure (NSDI).

Members:

- A chair, appointed by the Chair of the Council
- One representative of the State Government GIS Users Committee (SGUC)
- One representative of the Local Government Committee (LGC)
- One representative of the Federal Interagency Committee (FIC)
- One additional representative from the GICC, One staff member of the Land Records Management Section of the Department of the Secretary of State,
- One staff member of CGIA



What We Do



Provide technical advice to the GICC



Research and recommend best practices relating to GIS infrastructure and data.



Research and review of emerging technologies for GIS.



Research of how local municipalities and private entities share data.



Authoring of standards and guides for data, hardware, software, infrastructure, and databases.



Plans and Goals



Best practices guide for big data



Education and investigate uses of Al and machine learning in GIS



Continue to monitor changes of utility or infrastructure mapping practices



DISASTER RESPONSE DISCUSSION

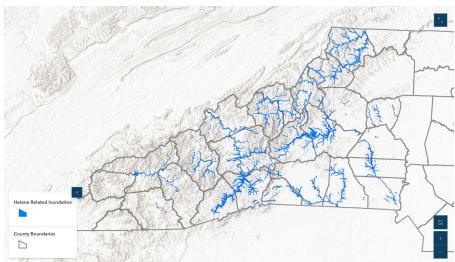
2025 NC GIS CONFERENCE



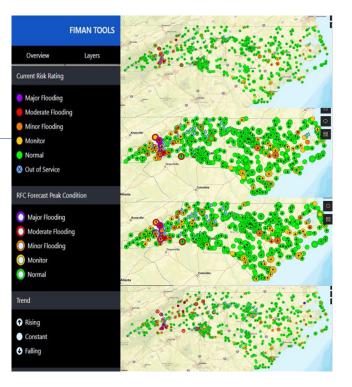
Value of GIS in Disaster Response

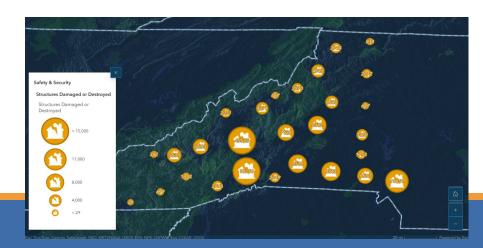


During the Storm

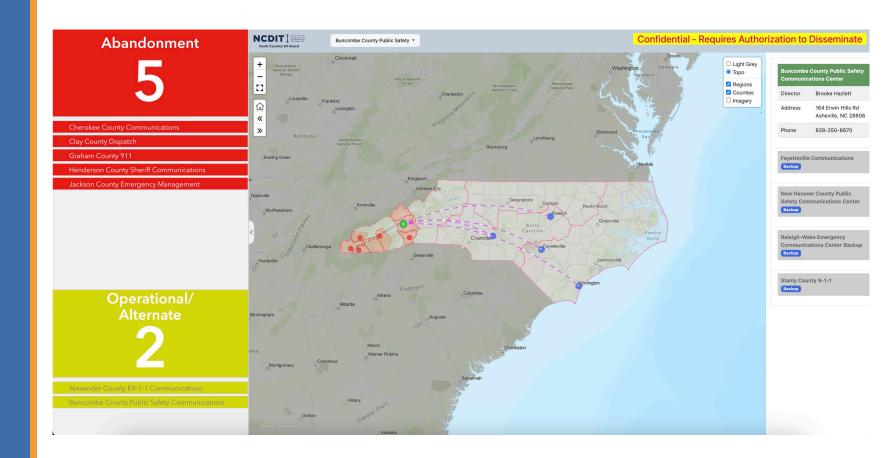






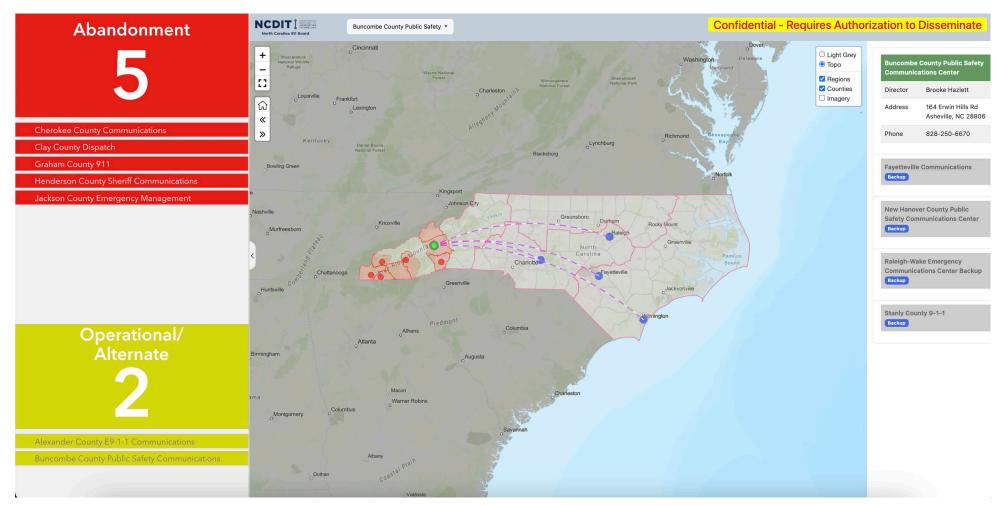


Next Generation 911





NG911 – Call Routing





Imagery: Local, State, and Federal Coordination

Gary, DOT (eric), how to get data

NOAA Hurricane Helene Before and After





Imagery Coordination

- I. Sources (Terrestrial and Aerial) made available in DOT Imagery Map/Hub (In order of appearance)
 - I. DOT/Consultant Personnel with Geotagged Phone Images
 - Internet Scraped Imagery (Social Media/News)
 - 3. Ground Survey 123 Damage Assessments
 - 4. CAP DSLR Aerials
 - 5. NCDOT Drone Imagery
 - 6. CAP Orthoimagery
 - 7. NearMap Orthoimagery
 - 8. NCDOT Targeted Photogrammetry
 - 9. NOAA Orthoimagery
 - 10. Planet Satellite Imagery
 - II. USGS Satellite Imagery/Landslide Data
 - 12. NCDOT County Wide Photogrammetry (With Swipe Tool)
 - 13. All Imagery Map
- 2. Frameworks Used for Coordination during Helene
 - I. FEMA Daily Imagery Call
 - 2. DOT Daily STOC Coordination Calls
 - 3. DOT Bi-Weekly Coordination Calls
 - 4. WGEER Coordination Calls



Opportunities for Access Improvement

- I. Daily NC GIS Coordination Call (15-30 min) specific to data being added and made available
 - I. Conducted after FEMA/DOT morning briefings
 - 2. What has recently been captured and what is coming and how to access along with intended use.
 - 3. Possibly a WGEER hosted updated list of these details
- 2. Imagery Hub with established management roles and responsibilities
 - I. Goal is how to get folks easy access to imagery that has restrictions on it.
 - 2. Sharing Policies and Procedures need to be established in advance
 - I. Group membership management protocol set up in advance
 - 3. Preconfigured Templates/Symbology for certain types of imagery
- 3. Preconfigured contracts or similar with Imagery Providers.
 - I. FEMA/DOT had Nearmap access during Helene
 - 2. CGIA brokered access to Planet during Helene
 - 3. Future sources?
- 4. Tools to assist in filtering for Imagery by Time Slice (DOT has a prototype)
- 5. An agreed upon template for the kitchen sink imagery map if appropriate.



Working Group for Enhanced Emergency Response

What is it? How to sign up? (Christian/Colleen)

Encourage to sign up for WebEOC

Opportunities for improvement. (Natalie)

What are the expectations, could you find it? Tagging for event.

Sallie to respond about being in another county (questions/improvement)



WGEER History





What is WGEER?





WGEER Resources

COMMUNICATE: HUB & TEAMS

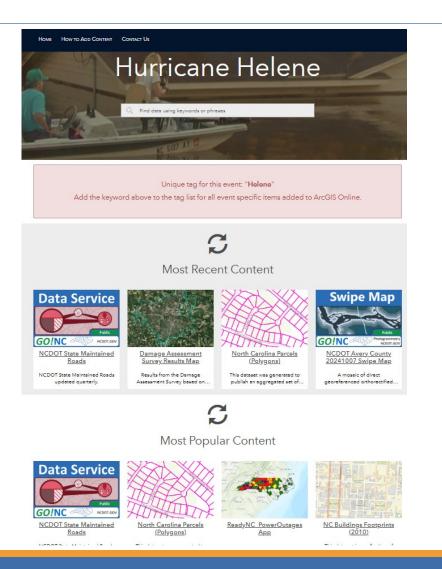


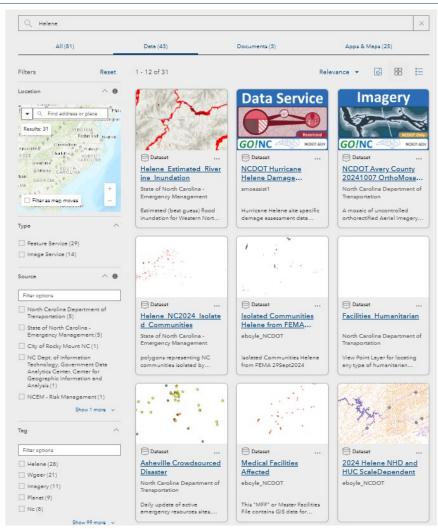


WGEER VOLUNTEERS



WGEER Hub: Helene Resources







WGEER Volunteer Pathway

Seek Local Approval

Register in TERMS

Prepare: FEMA IS classes, checklists

Respond to deployment request



WGEER during Helene



Group calls for data sharing and needs



Data sharing through Hub



Volunteer Deployments



Opportunities for Improvement

More engagement through Teams

Earlier pre-event phone calls

Sign up for WebEOC

Easier data request process

Better understanding and preparation for data sharing

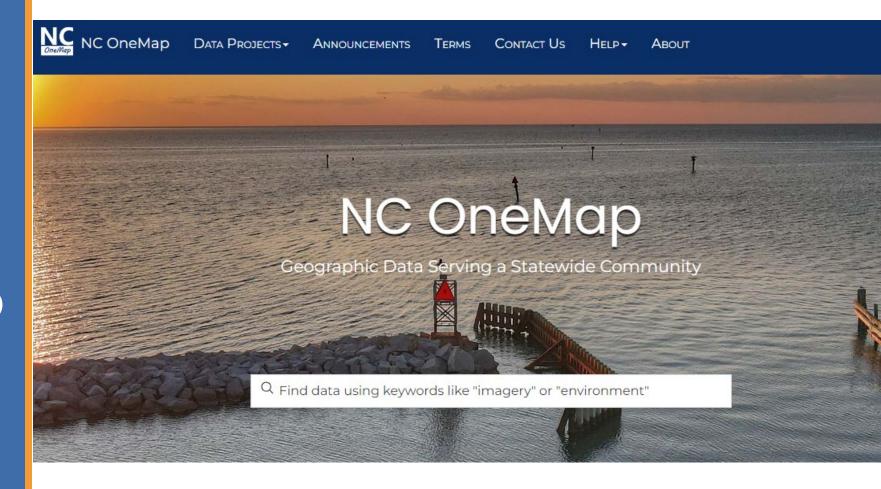
Community feedback for template maps and tools

Investigate options for federal/state hub sharing

Checklists and how-to documents



NC OneMap





NC OneMap Response

 Monitor ArcGIS Enterprise to ensure continued availability of downloadable data and web services

 Act as a backup location for data in the event local government copy becomes unavailable

Parcels

Address Points







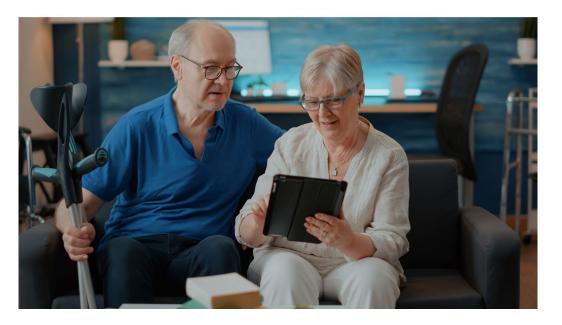
ACCESSIBILITY PREPARATION



What is web accessibility?

Web accessibility fulfills the basic promise of the web - making information and communication readily available to all people regardless of barriers in geography, language, or disability.

Integrating accessibility into websites brings broader benefits to organizations and other website visitors.





Why does accessibility matter?

- □ Nearly I in 4 Americans have a disability.
- Enhanced accessibility features can improve site experience for all users.
- Section 508 of the 1973 Rehabilitation Act mandates that federal agencies ensure their technology products and services, like software, websites, intranet sites, and mobile applications, are accessible to people with disabilities.
- □All US local and state governments must comply with WCAG 2.1 AA by April 2026 if the population is larger than 50,000 and 2027 if the population is less than 50,000 according to the Americans with Disabilities Act.



Common Tools for Accessibility

Some common approaches for interacting with the Web include:

- Assistive Technologies software and hardware that people with disabilities use to improve interaction with the web. These include screen readers that read aloud web pages for people who cannot read the text, screen magnifiers for people with some types of low vision, and speech recognition software and selection switches for people who cannot use a keyboard or mouse.
- Adaptive Strategies techniques that people with disabilities use to improve interaction with the Web, such as increasing text size, reducing mouse speed, and turning on captions.



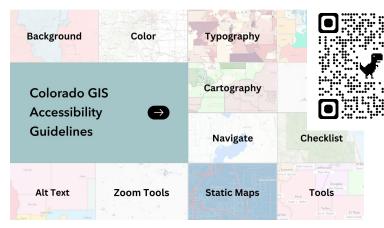


Existing Resources











Where do you go from here?

- I. Learn the basics from the many existing resources
- 2. Raise awareness in your organization
- 3. Create a plan, checklists, or policy
- 4. Review your websites and assess
- 5. Prioritize updates
- 6. Track and communicate progress
- 7. Stay updated on changes





DISCLAIMER UPDATE



Disclaimer Law

REQUIRE DISCLAIMER ON LOCAL GOVERNMENT GEOGRAPHIC INFORMATION SYSTEM (GIS) TOOLS

SECTION 13.(a) Article 23 of Chapter 153A of the General Statutes is amended by adding a new section to read:

"§ 153A-463. Disclaimer required on geographic information system tools.

Any geographic information system (GIS) tool offered to the public by a county shall bear a disclaimer notifying the user that the data offered by the tool is provided without warranty and that the user should consult public primary information sources, such as recorded deeds and plats, to verify the accuracy of the data provided. The disclaimer shall be displayed prominently on a splash screen or interstitial webpage that the user must affirmatively acknowledge before accessing the tool."

SECTION 13.(b) Article 21 of Chapter 160A of the General Statutes is amended by adding a new section to read:

"§ 160A-499.8. Disclaimer required on geographic information system tools.

Any geographic information system (GIS) tool offered to the public by a city shall bear a disclaimer as provided in G.S. 153A-463."

SECTION 13.(c) This section becomes effective January 1, 2025



Status

■ We've been informed that no legislative action will be taken prior to the bill implementation deadline but expect to work with the sponsor in the 2025 legislative session.

☐ General Recommendations:

- Prioritize disclaimers on GIS tools that contain land records such as parcels.
- Have your disclaimer reviewed by legal counsel. Refer to existing disclaimers if you need to get started.





Website Recommendations

Add GIS tool disclaimers to the best of your ability to demonstrate intent to comply using the following options:

- I. Place splash screen disclaimers on GIS tools that are easily remedied (such as Experience Builder)
- 2. When a splash screen is not supported by your application, add a GIS disclaimer on your open data site.
- 3. Add a blanket spatial data disclaimer language to your overall government website disclaimer language.

