North Carolina Perspective: Community Assessment of NSDI Coverages

Tim Johnson
NC Geographic Information Officer
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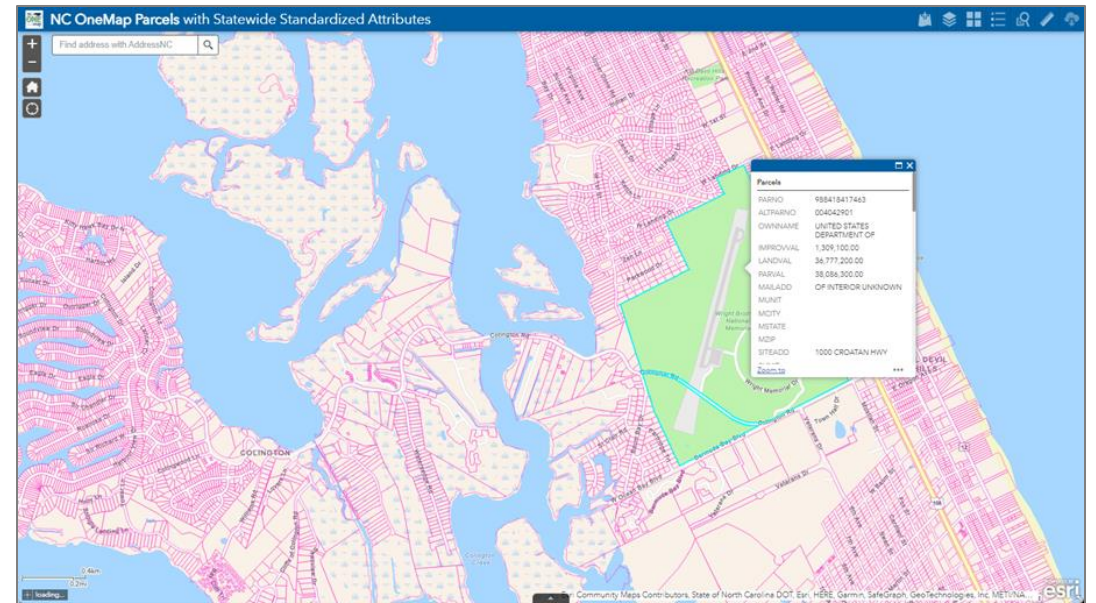
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The North Carolina Geographic Information Coordinating Council (GICC)
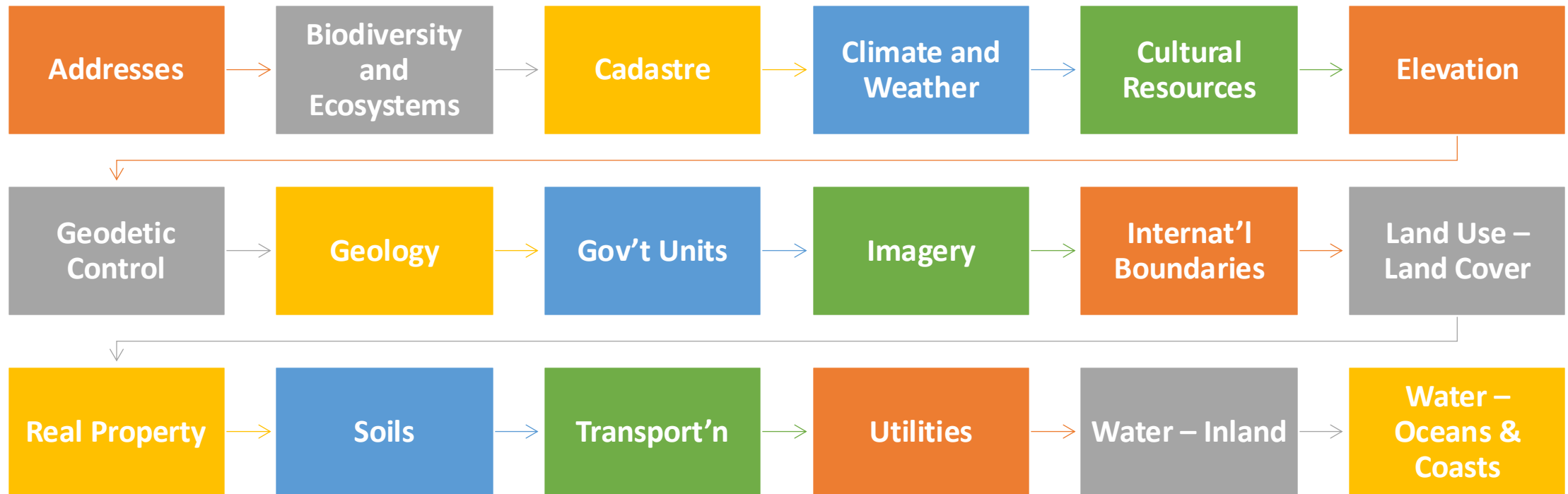
NC OneMap: A Statewide Community

- 20+ years ago NC GICC committed to a vision of:
  - Current, accurate geospatial data
  - Free data discovery and access
  - Data sharing without restriction
  - Data that are reliably maintained, documented through recognized, reliable sources

- Brings together foundational and thematic data from disparate sources into a curated "first-stop shop" for geospatial information

- Data partners cover all levels of government, academia, and private companies

"Seamless" parcels for all 100 NC counties
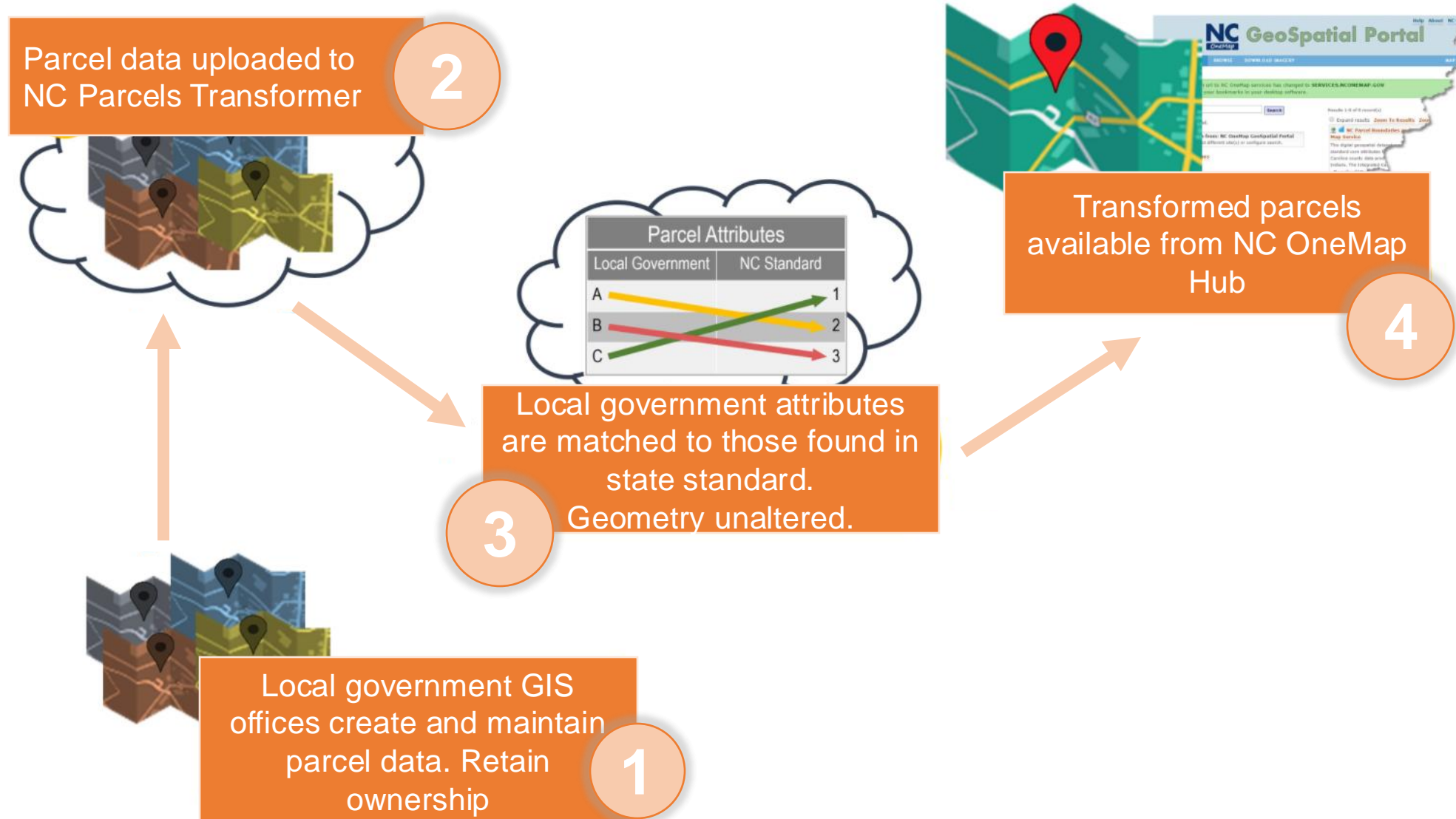www.nconemap.gov/pages/parcels

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NGDA Data Themes

Addresses	Biodiversity and Ecosystems	Cadastre	Climate and Weather	Cultural Resources	Elevation
Geodetic Control	Geology	Gov't Units	Imagery	Internat'l Boundaries	Land Use – Land Cover
Real Property	Soils	Transport'n	Utilities	Water – Inland	Water – Oceans & Coasts

North Carolina Orthoimagery

NC Parcels

NC Parcels Workflow

2 Parcel data uploaded to NC Parcels Transformer

3 Local government attributes are matched to those found in state standard. Geometry unaltered.

4 Transformed parcels available from NC OneMap Hub

1 Local government GIS offices create and maintain parcel data. Retain ownership

NC DIT

NextGen 911 in North Carolina

Communication

Collaboration

Coordination

GIS Support Staff: GeoComm & CGIA

PSAP GIS Data Stewards

911 Board Regional Coordinators
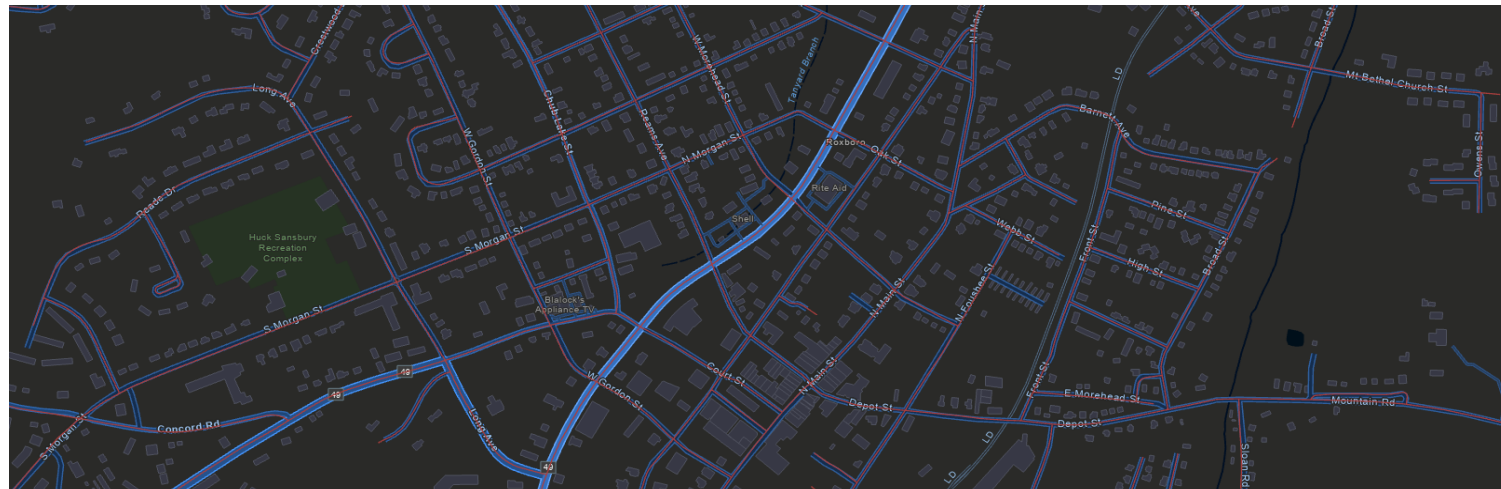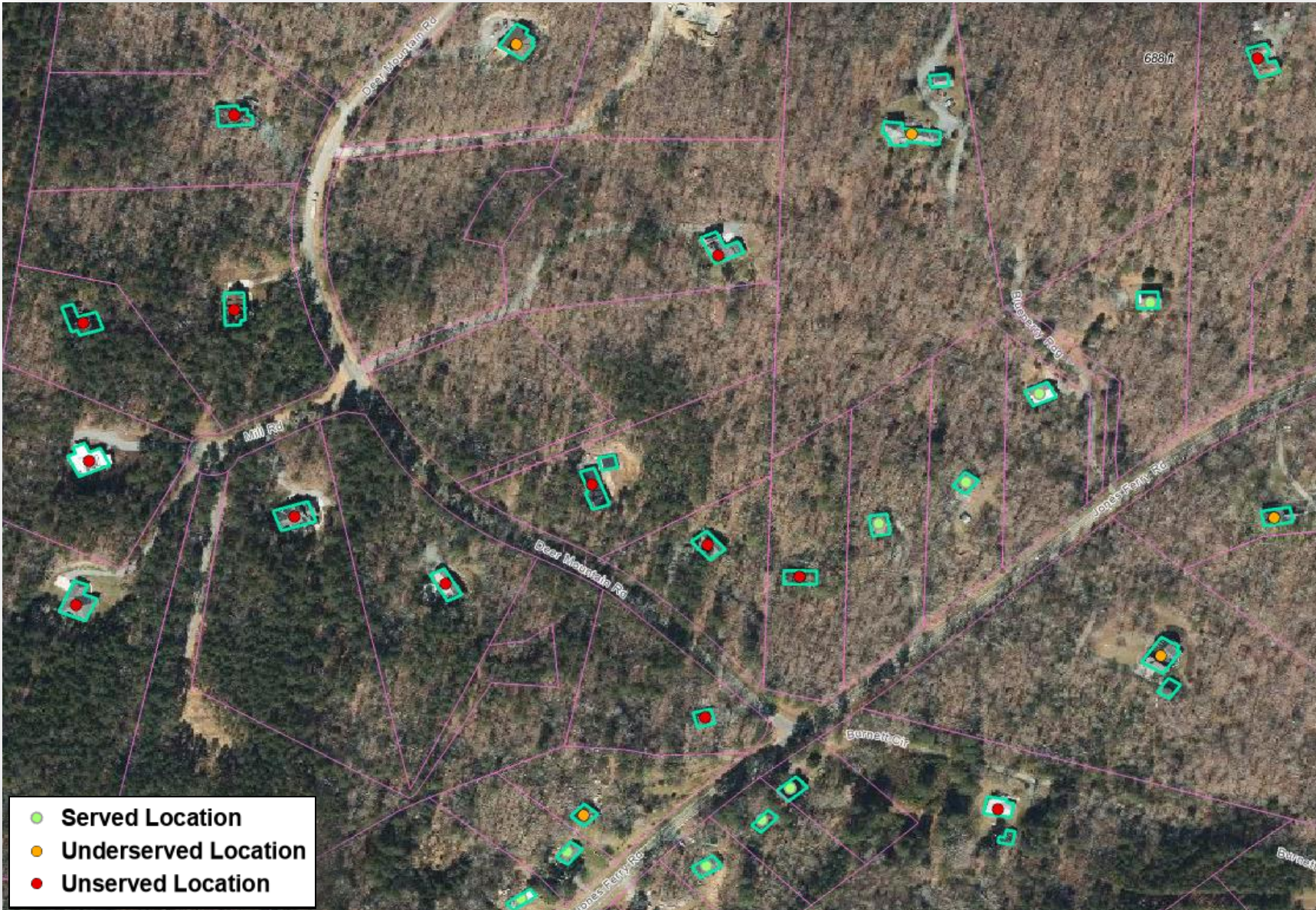
NC DIT

NextGen 911 in North Carolina

- Road Centerlines

- Address Points

- Emergency Services Boundaries (Fire, Law, and EMS)

- PSAP Boundary

- Provisioning Boundary

- ALI Database

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Statewide Framework Datasets Use Case

Served Location
Underserved Location
Unserved Location

Broadband Availability Map Example

- NC Division of Broadband & Digital Equity leverages orthoimagery, addresses, building footprints, and parcels

- Validates location data used by the FCC

- Maps broadband availability data

- Targets grant funding to expand broadband service across the state

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Some Challenges

✔ Need to evaluate legacy FGDC standards to meet current needs across all stakeholders

🔄 Funding for sustainability of state SDIs to refresh NSDI
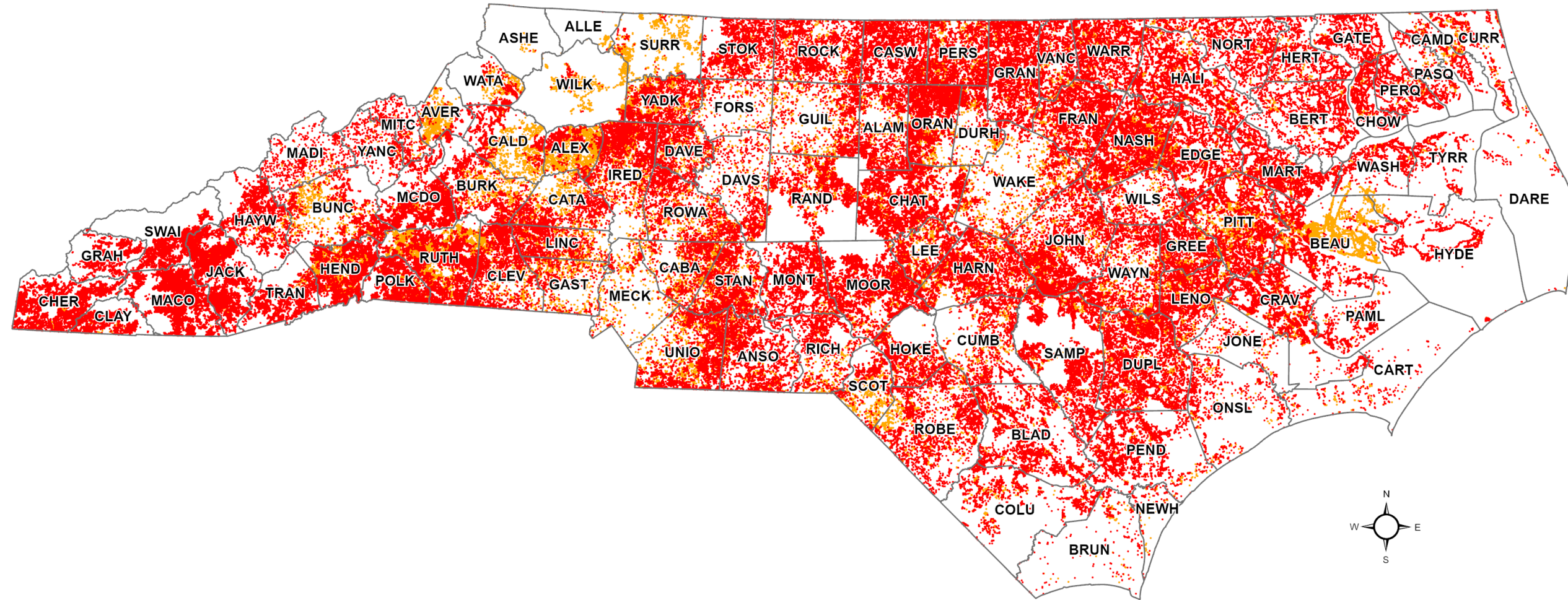
▼ Integrating local data into a national dataset: Example - local resolution hydrography merged into 3DHP

👥 Roles and responsibilities for each sector

NC Broadband Profile
FCC Broadband Data Collection – Version 2 – Unserved/Underserved – Service as of Dec 2022

● Unserved Broadband Serviceable Locations (Less Than 25mb/s Download and 3mb/s Upload)

  • 376,039 Locations – **Increase of 122,630 from Version 1 to Version 2 – Largest Increase of any State**

● Underserved Broadband Serviceable Locations (Less Than 100mb/s Download and 20mb/s Upload)

  • 127,391 Locations

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https://www.nconemap.gov/

https://it.nc.gov/about/boards-
commissions/gicc