

Next Generation 911 Implementation Update

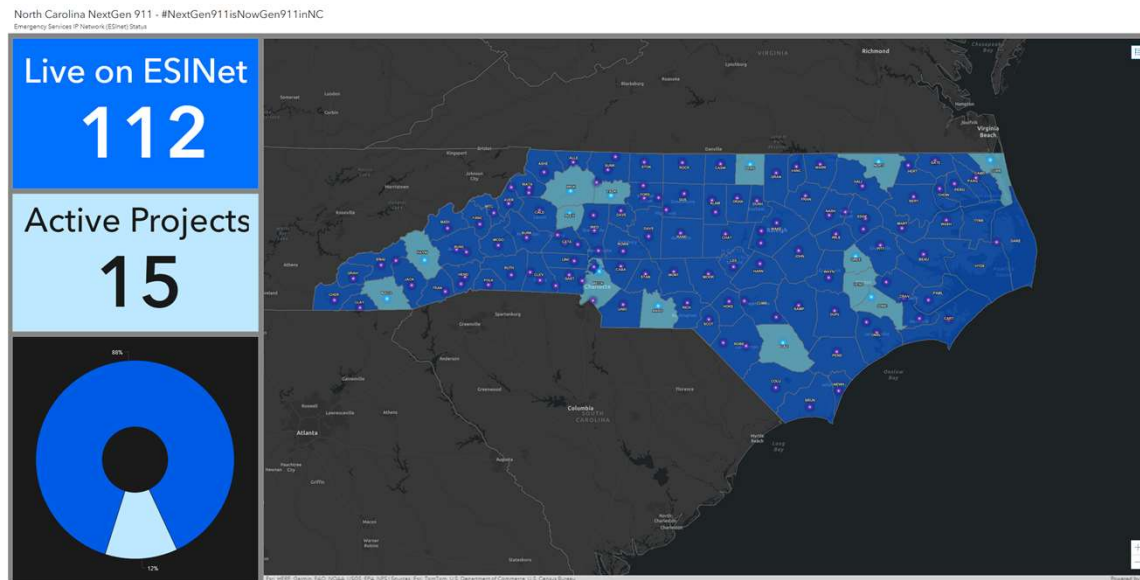
Pokey Harris
Executive Director
North Carolina 911 Board

November 3, 2021



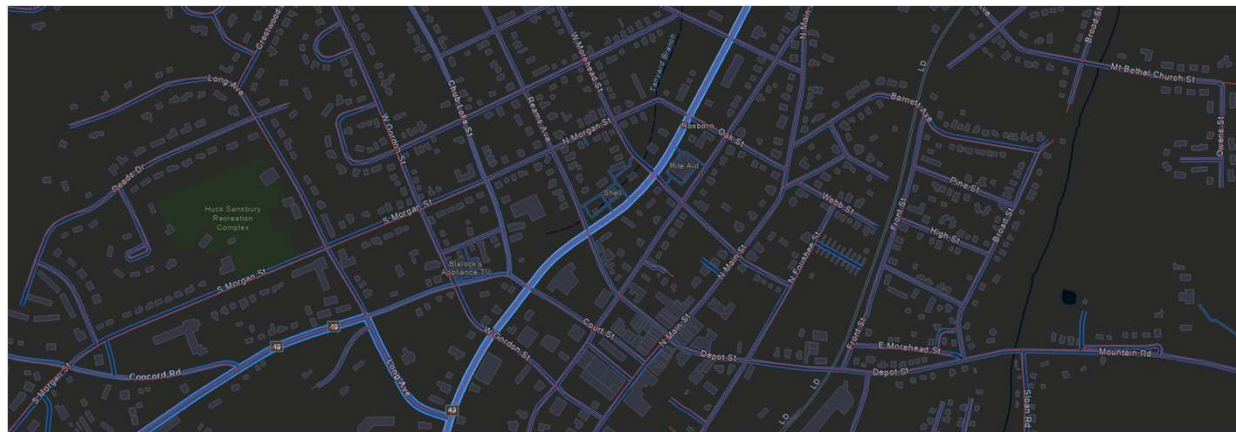
Next Generation 911 Implementation Update

- Migration onto ESInet is ongoing with AT&T
- End of 2021 is the targeted completion for the GIS data preparedness
- GeoComm and CGIA continue to partner on the outreach, education, and GIS support needed throughout the 115 Primary PSAPs in North Carolina



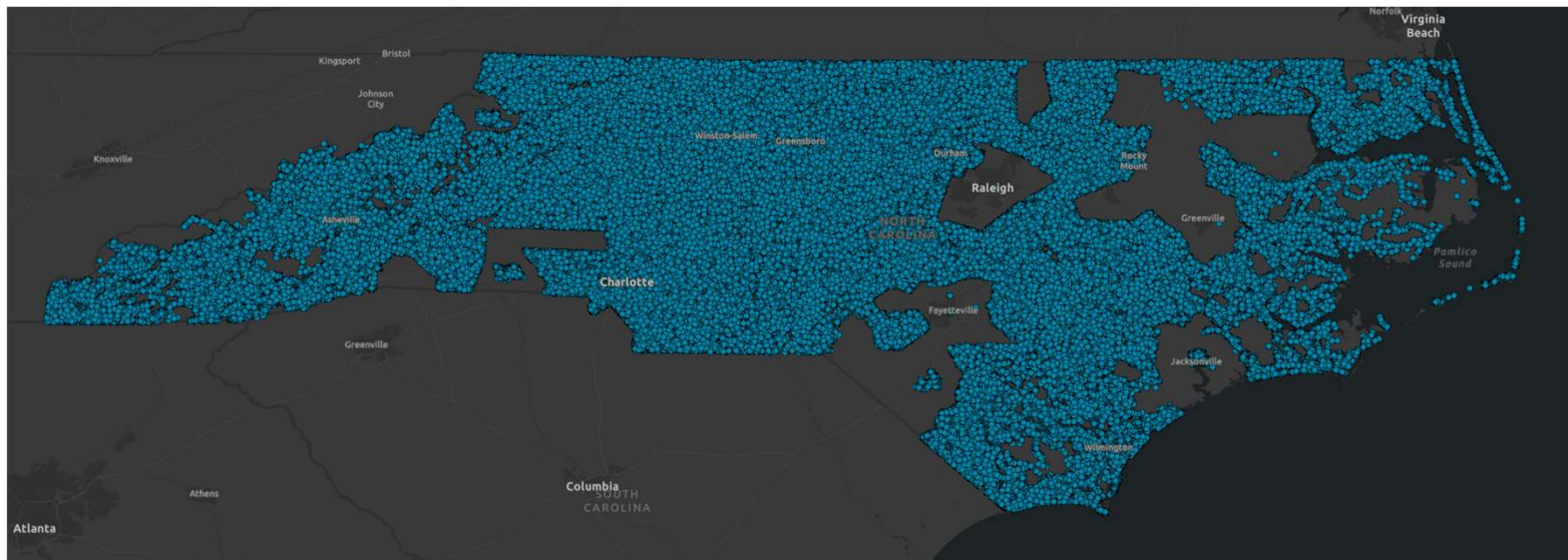
Required GIS Data Layers

- Road Centerlines
- Address Points
- Emergency Services Boundaries (Fire, Law, and EMS)
- PSAP Boundary
- Provisioning Boundary
- ALI Database



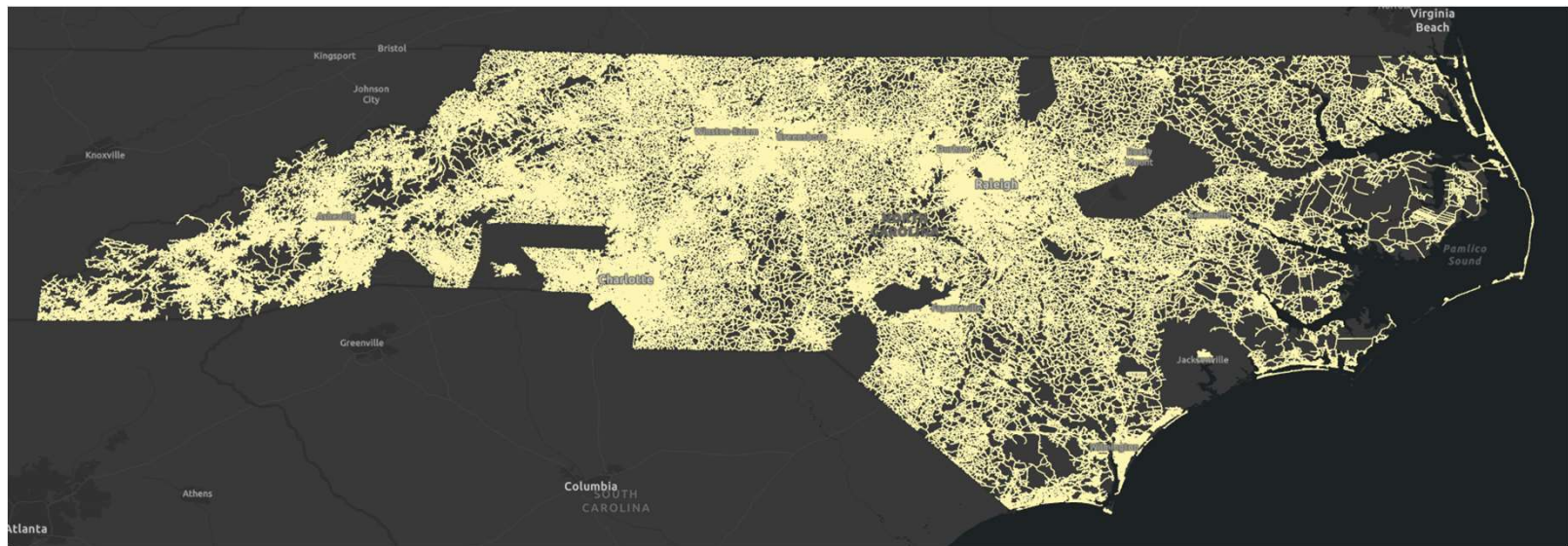
Address Points

- 4.4 Million address points are currently in the i3 ready database

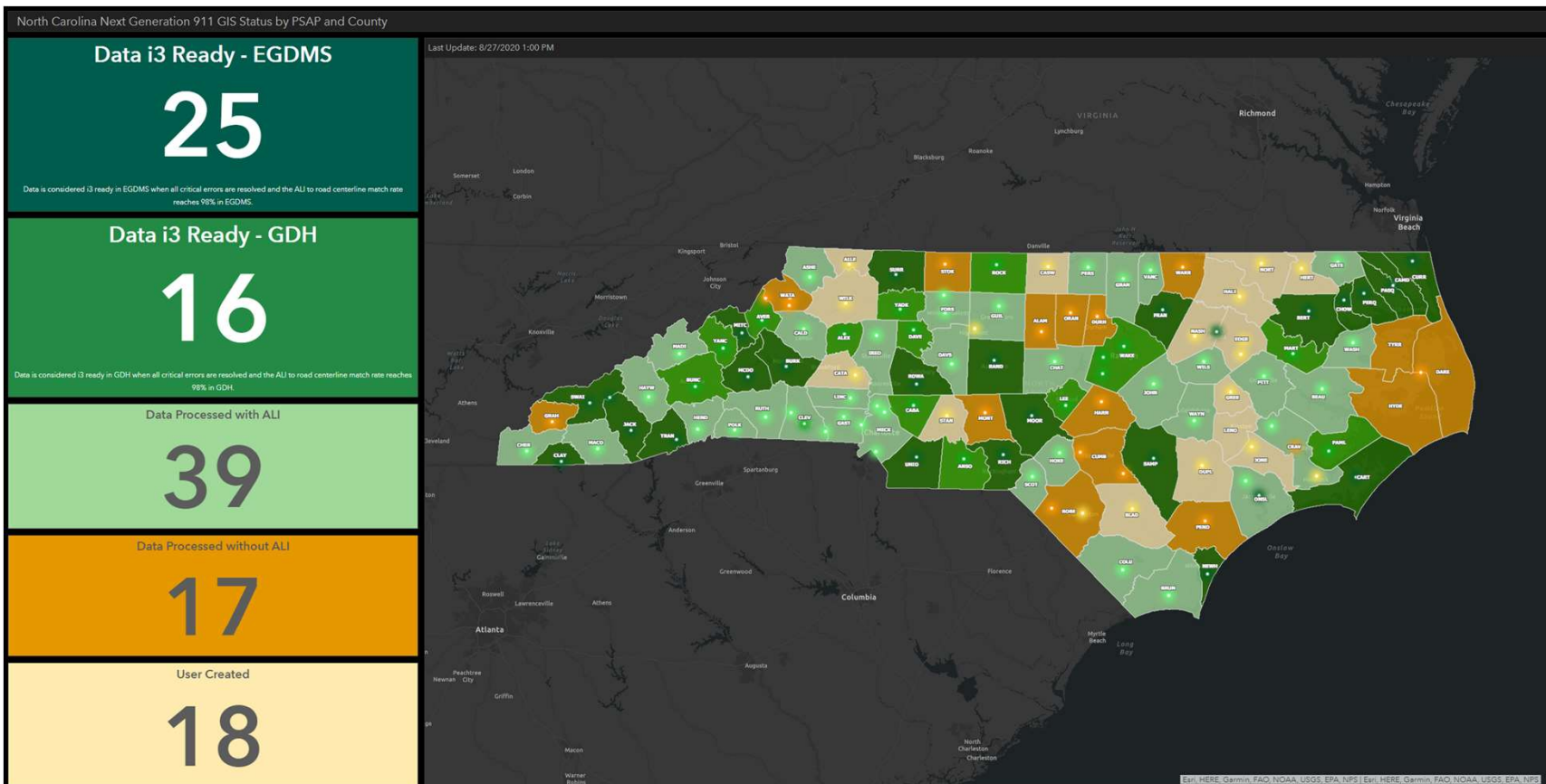


Road Centerlines

- 800,000+ road centerline segments are currently in the i3 ready database



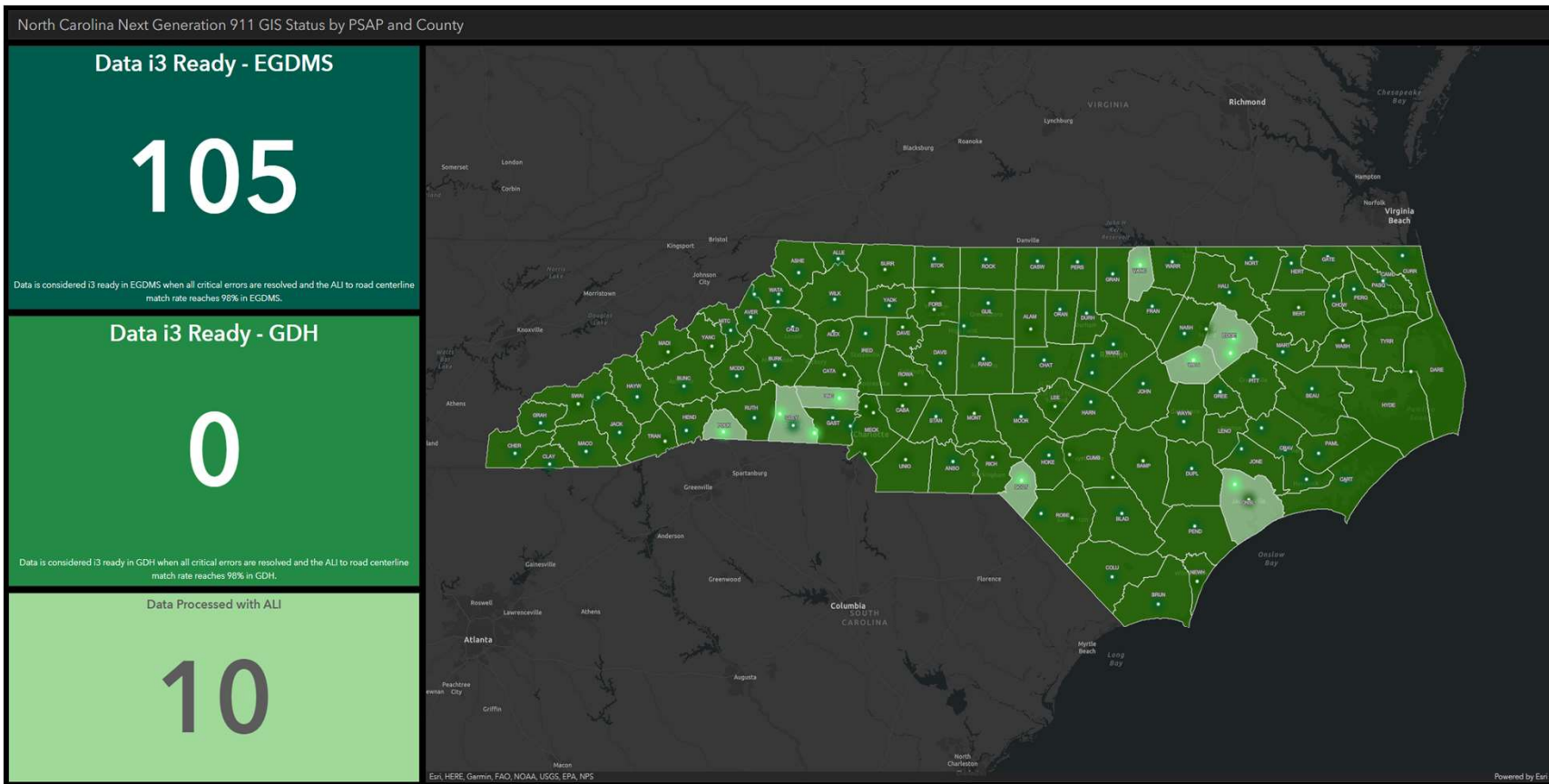
GIS Data Upload Status – August 2020



<https://nconemap.maps.arcgis.com/apps/opstdashboard/index.html#/bf74d87b26654801ab3d69c686bacf3e>



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Live i3 – What’s next?

- GeoComm’s GIS Data Hub is the GIS authority for NextGen 911
- The need for current GIS data does not cease once you are live as i3 on ESInet
- GIS data will continue to drive 911 call routing in the State of NC

GIS Data Configuration

Copy Layer Mappings From Previous Client

Add A Layer Mapping

Existing Dataset Mappings

Source Dataset	mapped to	Target NG911 Dataset		
ESN_NEW		ESBLaw	⚙️	🗑️
RichmondALI		Automatic Location Information (ALI)	⚙️	🗑️
ESN_NEW		ESBFire	⚙️	🗑️
Streets		Road Centerline	⚙️	🗑️
ESN_NEW		ESBEMS	⚙️	🗑️
Municipal_Boundaries		Incorporated Municipality Boundary	⚙️	🗑️
Provisioning_Boundary		Authoritative Boundary	⚙️	🗑️
PSAP_Boundary		ESBPSAP	⚙️	🗑️
UpdatedAddressPoints		Site/Structure Address Point	⚙️	🗑️



Live i3 – GIS Data Updates

- Timely updates are critical to ensure 911 calls are routed to the correct PSAP
- At a minimum, quarterly uploads are required, but more frequent uploads are recommended



Live i3 – Help Guide

- NG911 GIS Data Maintenance Help Guide – available on the NC DIT website

<https://it.nc.gov/media/1843/open>

NEXT GENERATION 911 GIS DATA MAINTENANCE IN AN i3 SYSTEM

Are you live as i3 on the ESInet?

GeoComm's GIS Data Hub is the GIS authority for Next Generation 911. On an i3 system, the GIS data is being used for call routing. Once you are live on an ESInet i3 system, you need to continually upload your updated GIS data in GeoComm's GIS Data Hub.

Have you added new roads or adjusted road ranges in your GIS data? Have you added new addresses?

It is recommended that updates are provided on at least a monthly basis. If road updates occur frequently, you may want to consider more frequent uploads. The addresses represented in your address points and road centerline layers are utilized to route landline 9-1-1 calls. Also, until a new road is in the i3 system, citizens may not be able to get a landline phone because this does not exist for the phone provider to validate.

If a new subdivision is added and you do not update your GIS data and upload it to GIS Data Hub, you run the risk of 9-1-1 calls from that subdivision not being directed to the correct PSAP!

GIS Data Maintenance Workflow:

Updated GIS Data
•All Required Layers
•ALI Table

GIS Data Hub Upload
•Geodatabase or SHP
•ALI Table

AT&T EGDMS Transfer
•Performed by GeoComm once all data is clear of critical errors.

Important Links:

- [North Carolina's GIS Data Hub](#)
- [GIS Data Hub User Guide](#)
- [GIS Data Hub How-to Video](#)

See the next page for things to keep in mind before and after uploading in GIS Data Hub.

Document made in collaboration with the NC 911 Board, CGIA, GeoComm, and AT&T. August 6, 2020

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