

The Evolution of a Regional 9-1-1 GIS Program

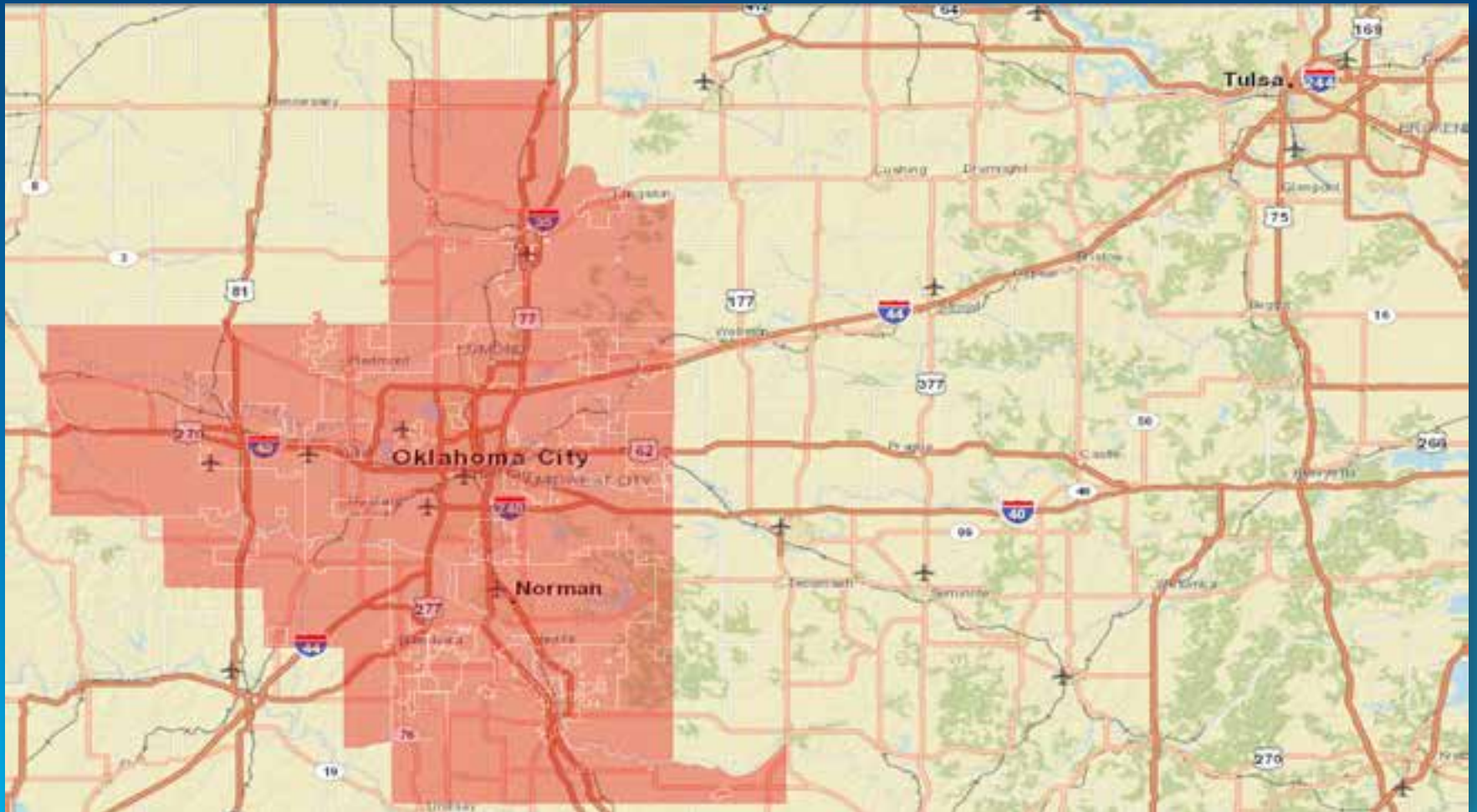
Adam Drannon, GISP - ACOG

Deb Rozeboom, PMP, ENP, GISP - GeoComm



Association of Central Oklahoma Governments: ACOG (Oklahoma City)

- 4 Counties
- 21 Public Safety Answering Points (PSAP)



“It was important to have cohesiveness of the region, for mutual aid, and for being able to answer a 9-1-1 call from anywhere in the region that we had a regional map that looked the same and was updated for the call takers sitting at the 65 workstations across the region,”

Steve Willoughby, ENP, 9-1-1 ACOG Public Safety Division Director

2006: The First Step – GeoComm Hired to:

GIS Project Consulting and Organization

GIS Data Collection, Integration, and Development of Road Centerlines

GIS Training, Implementation of Tools and Maintenance

GIS Project Consulting and Organization

- Comprehensive study
- Regional Data Standard
- GIS environment of each PSAP



The image shows a screenshot of a GIS data table titled "GWINNETT COUNTY BASEMAP7001 GEOGODATABASE MODEL". The table is organized into several columns, each representing a different data layer or attribute. The columns are color-coded: blue, purple, and red. The table contains numerous rows of data, likely representing different geographic features or parcels. The table is displayed on a computer screen, with a small logo in the top left corner.

Layer/Attribute	Value/Description
Layer 1 (Blue)	...
Layer 2 (Purple)	...
Layer 3 (Red)	...

Development of a Region wide dataset



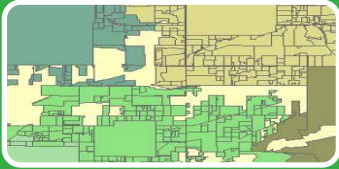
Field verification



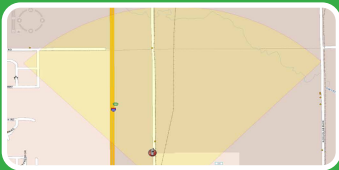
Regional address-ranged road centerline layer



ESN layer



Community boundaries layer



Phase 1 cell sector layer

GIS data maintenance tools

- In house staff trained on GIS data maintenance tools

The screenshot displays the ArcGIS desktop environment. The main map area shows a residential street grid with a highlighted street named 'Laurel Cir'. Two dialog boxes are open over the map:

Address From Lat / Long

Create Address From Latitude / Longitude Coordinate

Latitude (Y):	41.77658° N
Longitude (X):	88.17269° W
New address:	1130 Laurel Cir
ESRI:	1201
Boundary:	Naperville
Exchange:	505

Buttons: Zoom to Location, Compute Address, Insert Point, Cancel

Address Ranges

Assign Address Ranging: GRID

Pre-directional		
Pre-type		
Street name	Laurel Cir	
Street type		
Post-directional		
	Initial First Range	Assigned Ranges
Left from range:	1116	
Left to range:	1130	
Right from range:	1111	
Right to range:	1131	
Addresses per grid:	100	
Segments selected:	1	

Buttons: Assign Ranges, Cancel

At the bottom right of the map, the coordinates are displayed: -88.16972 41.77738 Decimal Degrees

Dispatch Mapping Software

- All 21 PSAPs, 64 positions using regional dataset
- Provisioning software to push out to all positions



2007: Evolving Maintenance Responsibilities

Additional consulting and Entity assignments

QA/QC responsibilities

Two-way Replication

- Communication
- Weekly xml file exchange

Weekly QA/QC Reports

Monthly report – 9-1-1 call plotting success

Categorize ACOG Entities – A, B, C



Categorize ACOG Entities – A, B, C



entity does everything and provides info to ACOG



entity does GIS and provides info into ACOG for MSAG development



ACOG does everything



2013: Migration to server based dispatch mapping

2 active, 1 passive server – 2 load balancers

New network

New position hardware

1 PSAP per week going live

- January – June, 2014

Updated maintenance documentation

Look to the Future

Integrate with
CAD

Integrate HD
weather
Radar

Web based
GIS
maintenance?

