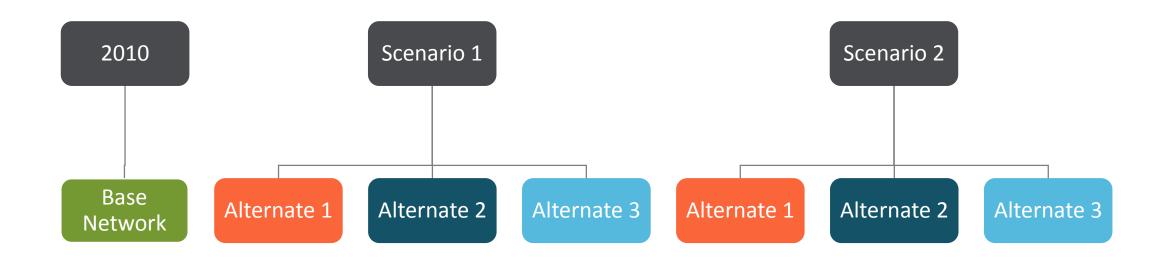


## **Transportation Alternate Networks**

June 2016

## **Encompass 2040 Networks and Scenarios**



#### Scenario 1: Historical Trend

- Attractions: Trend and schools
- Housing: Lower density residential developments
- **Employment:** Separated from housing, along transportation corridors
- Transportation: Autodependent

#### Scenario 2: Nodal Growth

- Attractions: Downtowns, service areas, TODs
- Housing: Mixed-use, infill, higher density developments
- **Employment:** Downtowns, TODs, mixed-use
- Transportation: More transportation options (including regional transit)

#### 2010 Base Network

- Current conditions as of 2010
- Regional streets
- Fixed transit routes

#### Alternate 1

- No Build Alternate
- Present + Committed Projects
- Roadways and transit routes
- Improvements from 2010 to December 2016
- ODOT 8-Year
  Construction
  Work Plan
  (through 2016)

#### Alternate 2

- Future Improvements
- Member entity projects
- Roadway and transit routes
- Gap projects
- Long-rangeODOT projects

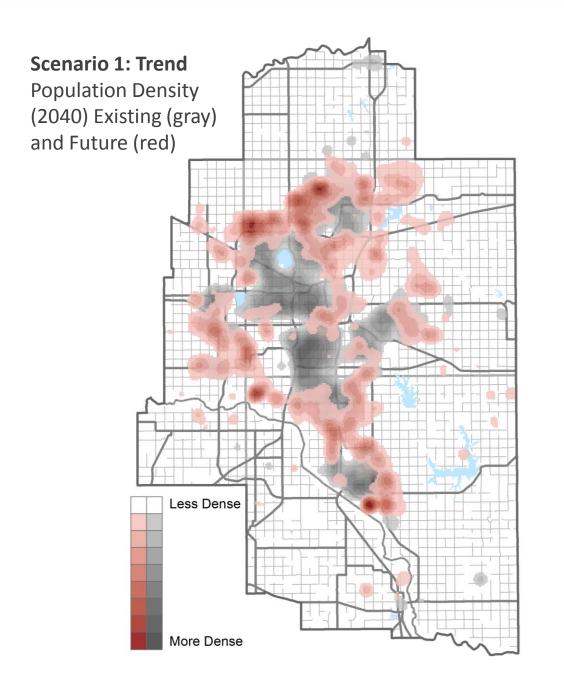
#### Alternate 3

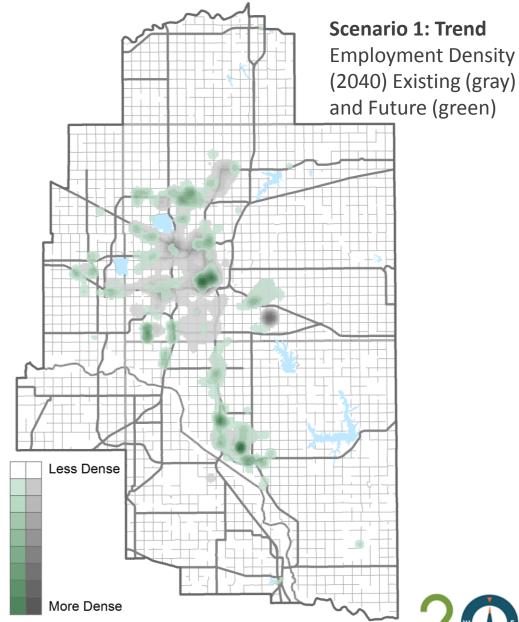
- IllustrativeAlternate
- Regional transit
- No dedicated funding source

## Alternate 3 Components

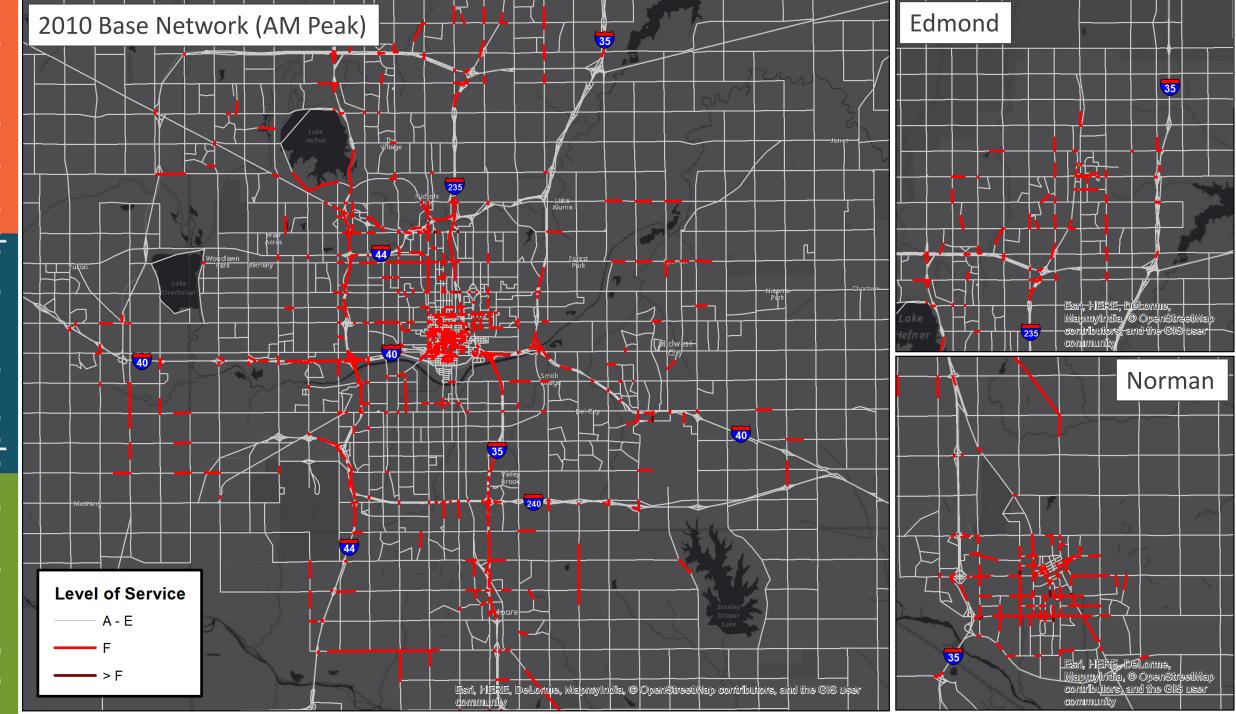
- Base Network
- Present + Committed Network (Alternate 1)
- Future Transportation Improvements (Alternate 2)
  - Encompass 2040 Transportation Projects (member submitted)
  - ODOT Projects (long-range)
  - OTA Turnpikes
  - Gap Projects
  - Streetcar
- Regional Transit (1% mode share)
  - Commuter Rail
  - Bus Rapid Transit (BRT)
  - Supportive Bus Routes

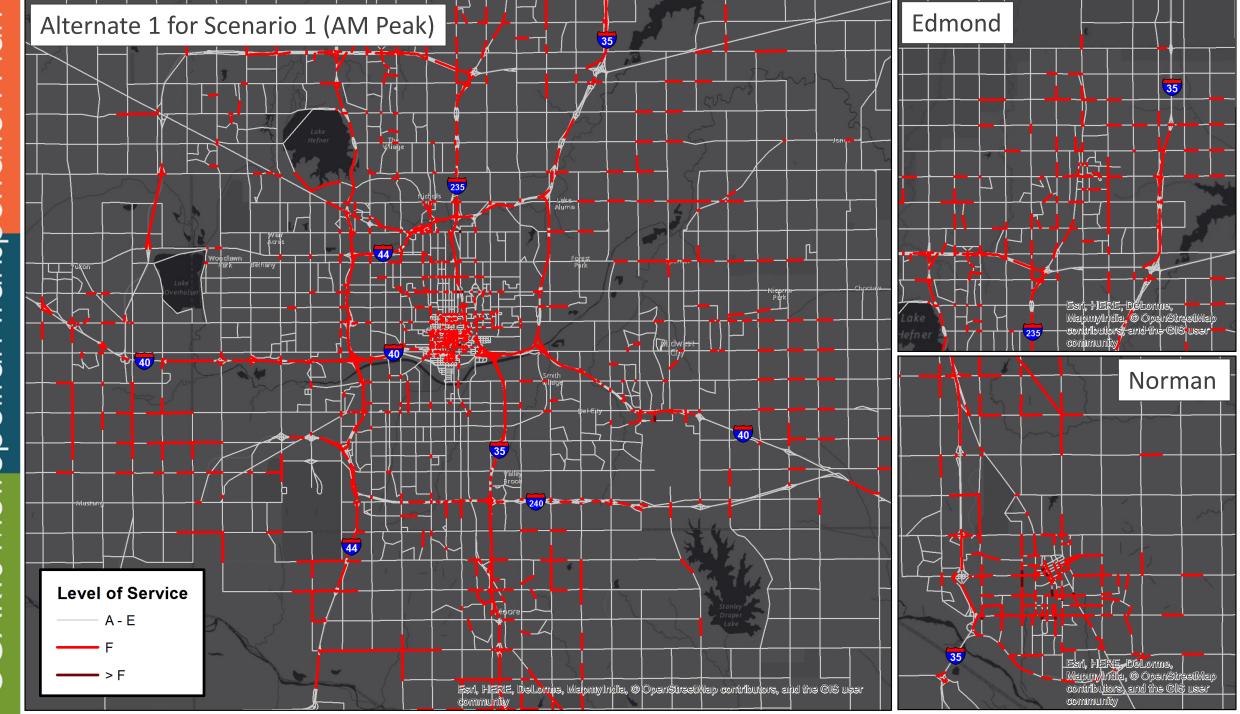
# Scenario 1

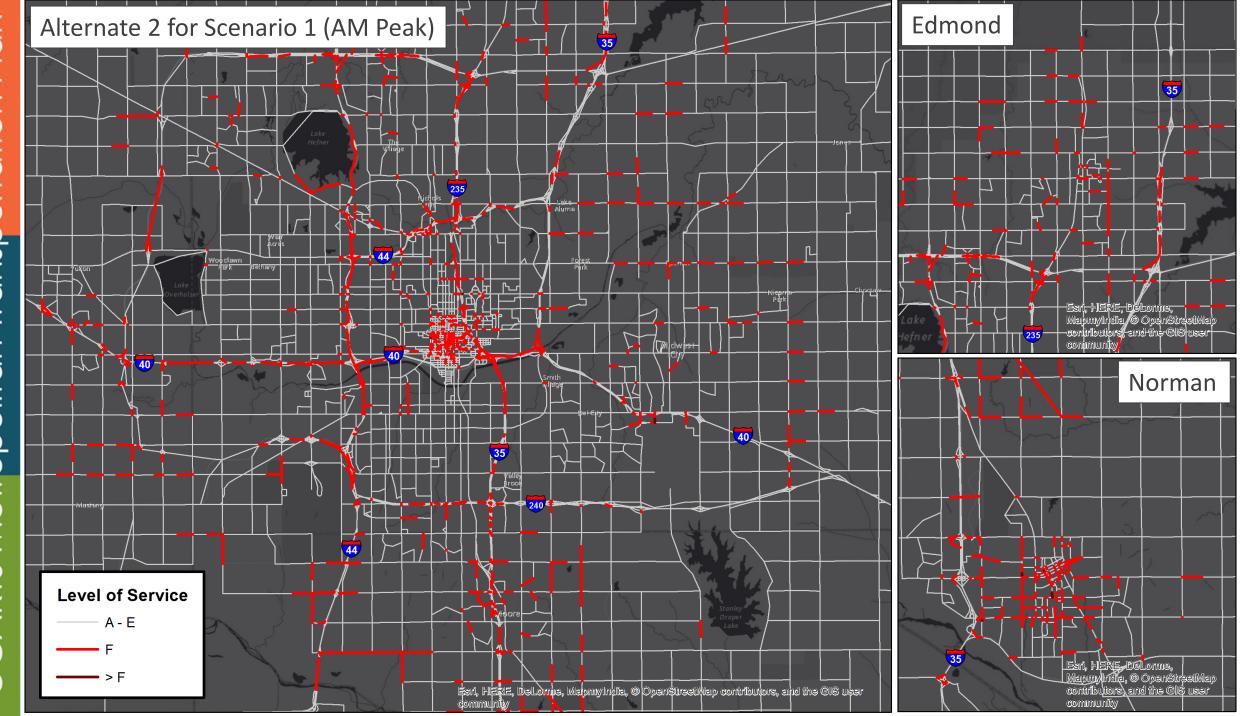


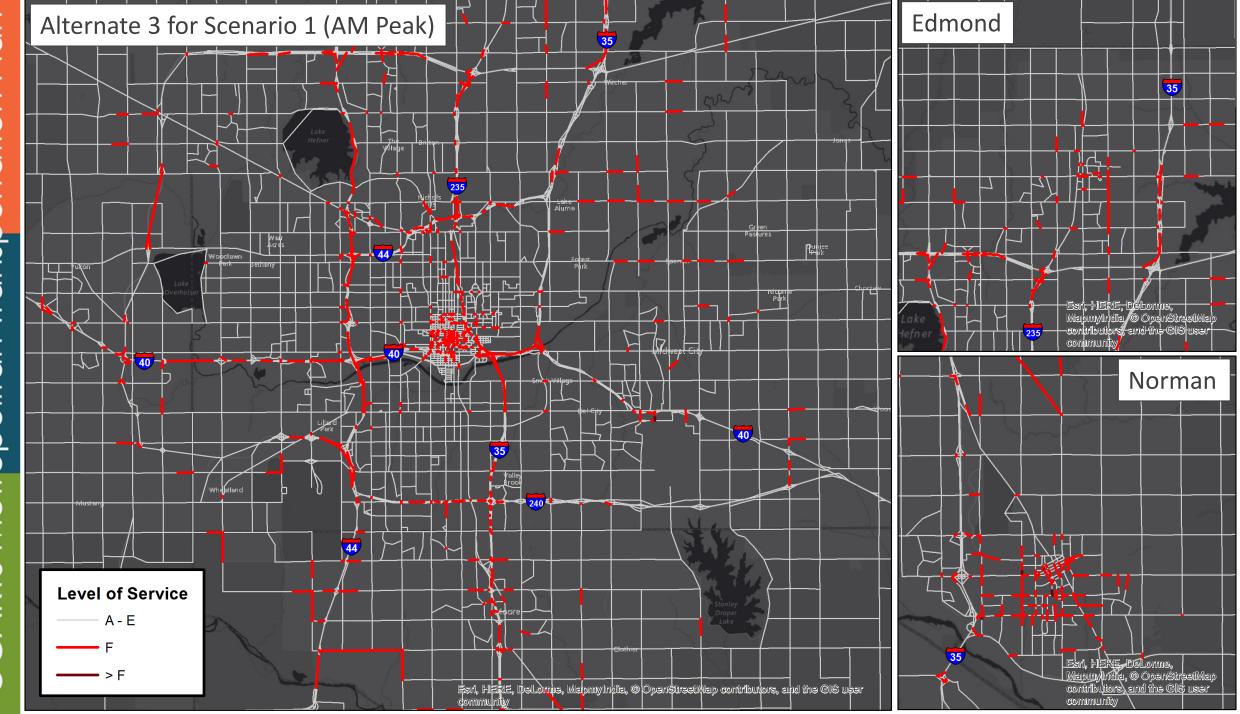




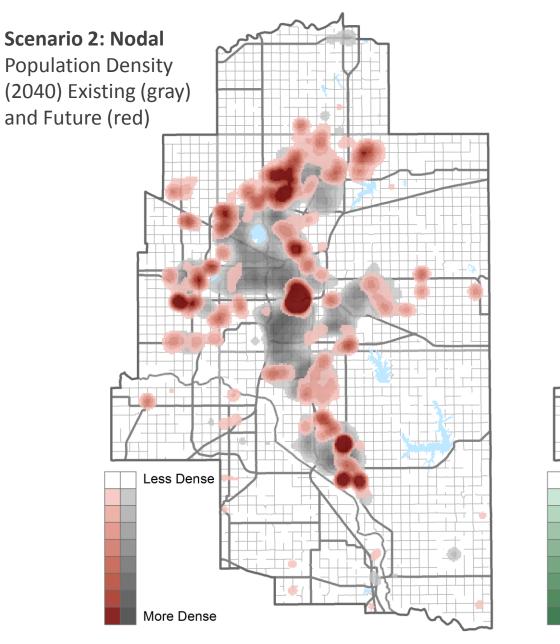


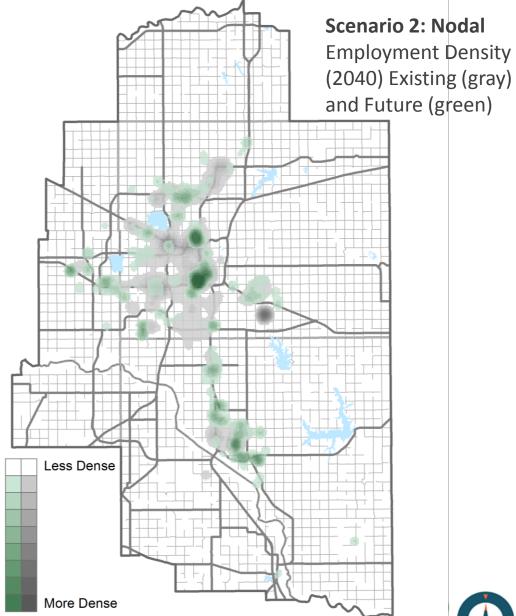




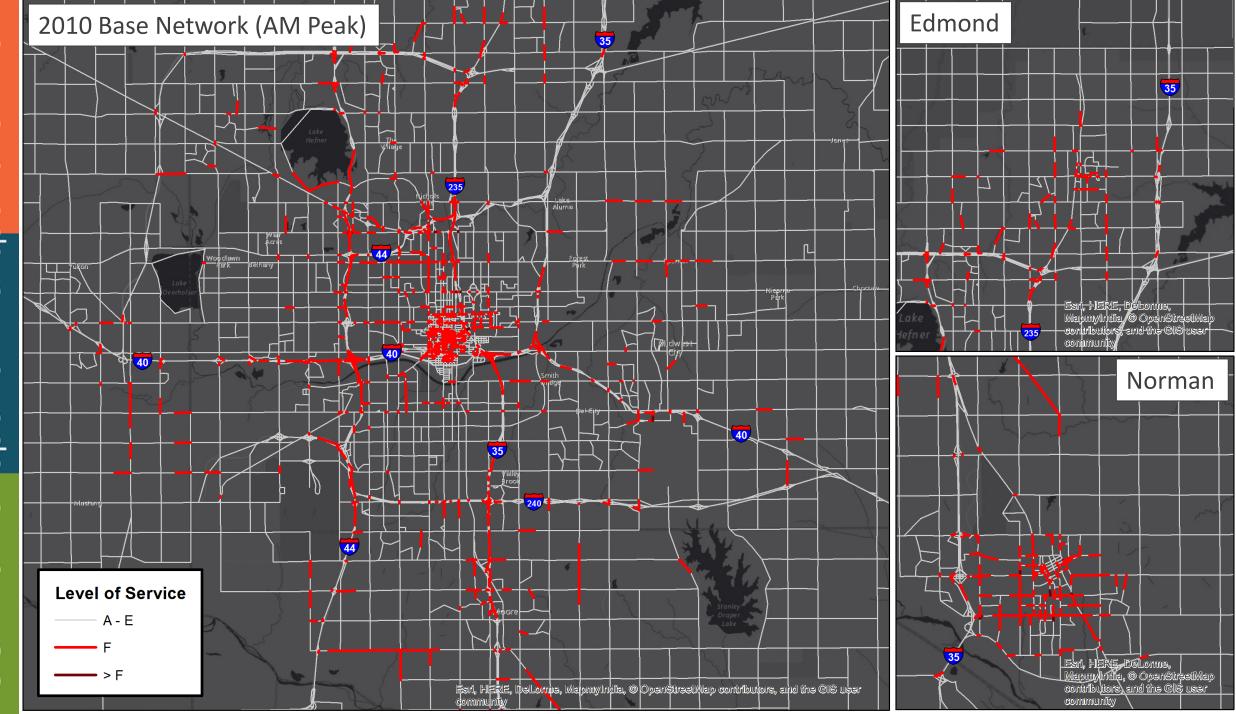


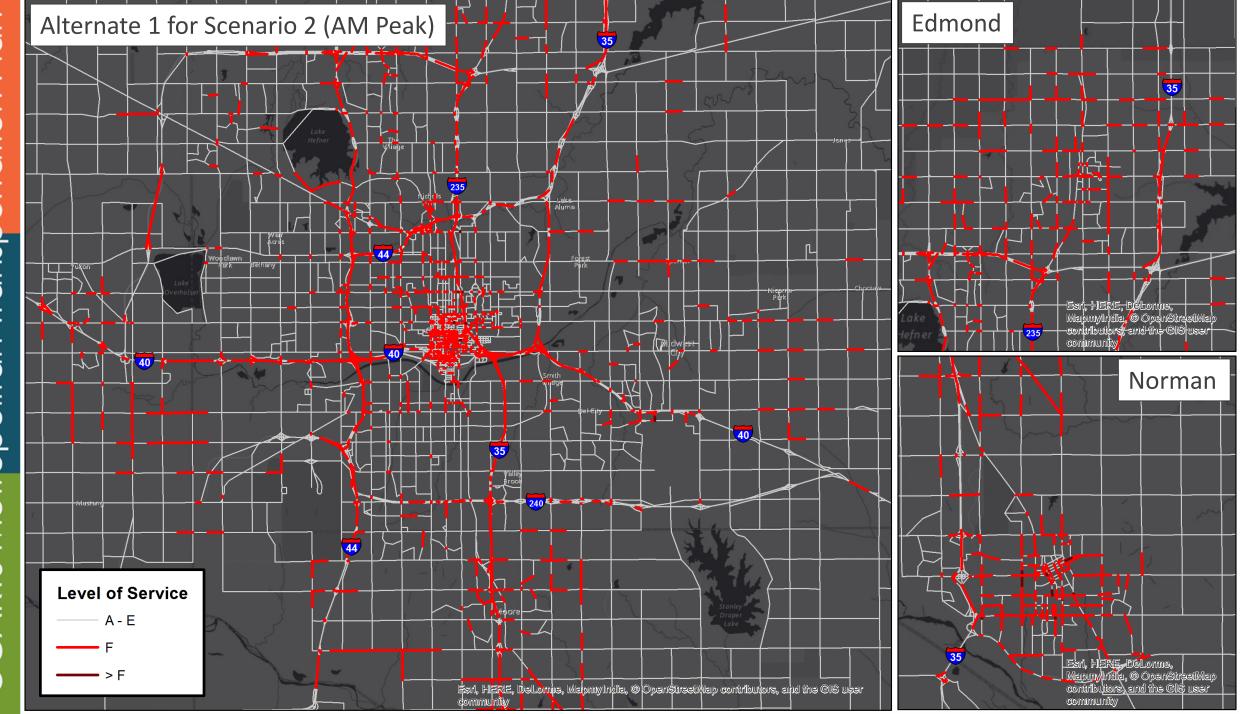
# Scenario 2

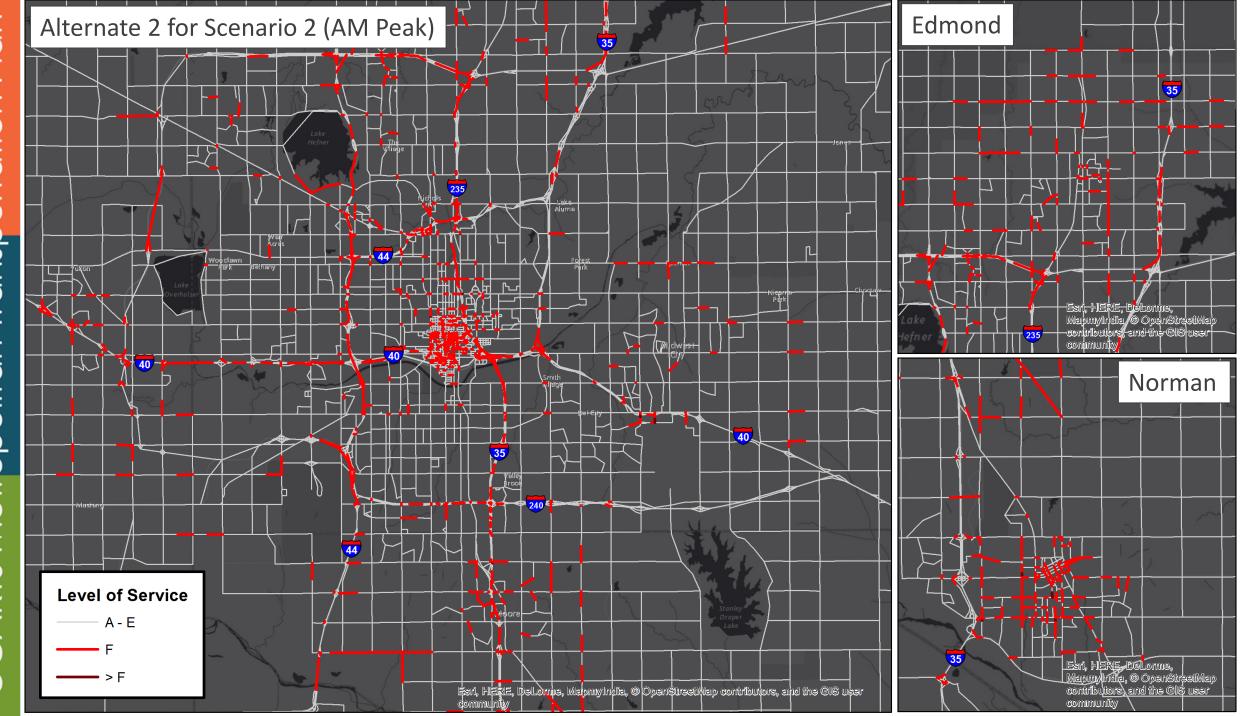


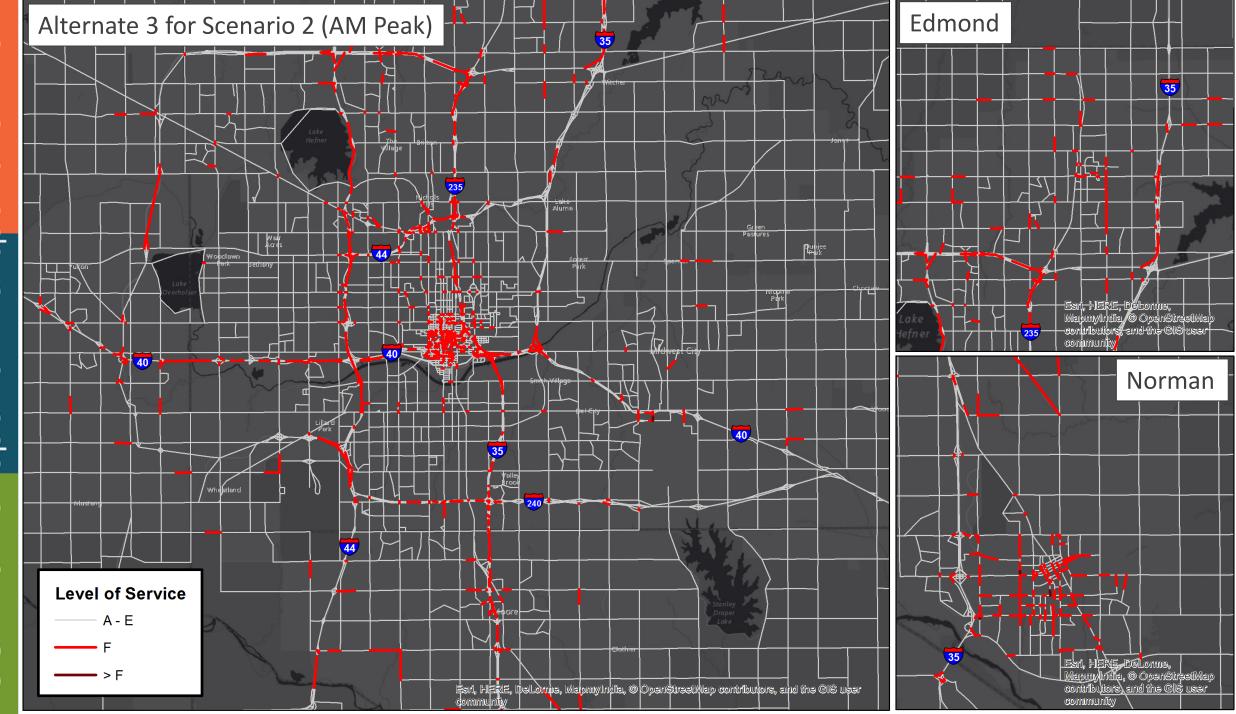












TDM Networks Evaluation*	2010 Base Network	Alternate 1		Alternate 2		Alternate 3	
		Scenario 1	Scenario 2	Scenario 1	Scenario 2	Scenario 1	Scenario 2
Demographic Data							
Population	1,142,338	1,595,168	1,595,168	1,595,168	1,595,168	1,595,168	1,595,168
Employment	601,839	875,402	875,402	875,402	875,402	875,402	875,402
<b>Daily Transportation Demand</b>							
Vehicle Miles of Travel	30,266,000	45,299,000	44,321,000	46,550,000	45,517,000	45,997,000	44,927,000
Vehicle Hours of Travel	853,000	1,503,000	1,474,000	1,415,000	1,389,000	1,398,000	1,371,000
Vehicle Trips	4,165,000	5,896,000	5,976,000	5,858,000	5,928,000	5,788,000	5,851,000
Transit Ridership	15,700	22,800	26,200	22,900	26,600	91,100	108,900
System Performance							
Congested Road Miles	289	647	626	308	297	295	290
Average Overall Speed (mph)	35	30	30	33	33	33	33
Average Freeway Speed (mph)	45	40	40	44	44	44	44
Average Arterial Speed (mph)	35	25	25	29	29	29	29
Average Trip Length (miles)	7.27	7.68	7.42	7.95	7.68	7.95	7.68
Average Trip Length (minutes)	12.29	15.30	14.80	14.49	14.06	14.49	14.06
Daily Hours of Delay	138,000	454,000	425,000	366,000	340,000	349,000	322,000
Delay per Trip (minutes)	1.99	4.62	4.27	3.75	3.45	3.62	3.31

<sup>\*</sup> Please refer to handout for alternate network assumptions

### Conclusions

- Alternate 3
  - Versus Alternate 1 (no build option):
    - Significant increase in transit trips
    - Significant decrease in congested lane miles
    - Less delay
    - Less speed reduction
- Scenario 2: Nodal (compact regional footprint)
  - Even more transit ridership
  - Fewer congested lane miles
  - Less delay

## Anticipated Next Steps

- Alternate Results
- Costs
- Air Quality Model
- Impacts and EJ
- Benefit-Cost Analysis
- Draft Executive Summary

July: ITTC

August: ITPC

- Alternate Results
- Costs
- Air Quality Model
- Impacts and EJ
- Benefit-Cost Analysis
- Draft Executive Summary

- Public Outreach
- Final Executive Summary
- Final Plan Approval

September/October



ASSOCIATION of CENTRAL OKLAHOMA GOVERNMENTS acogok.org | jsebesta@acogok.org | 405.234.2264

