

# Oklahoma Public Safety Broadband Network Project



PROJECT STATUS

OCTOBER 28, 2015





# OKPSBN Project Update

## ❖ Project Tasks

- Data Gathering:
  - Objective
  - Progress Map
- Coverage Reviews:
  - Objective
  - Progress Map
- Five Phase Build-out:
  - Objective
  - Build-out Strategy
  - Phased Buildout Maps- Whole State
  - Phased Buildout Maps- Tribal Perspective





# Data Gathering

- ▶ FirstNet has requested specific data from each state to determine the coverage and capacity of the network
- ▶ Personnel counts, vehicle counts, device counts, jurisdiction boundaries
- ▶ Data gathered by User Population Survey-online tool to reach every Public Safety Entity in the state
- ▶ Over 10,000 entities identified, just over 1,100 responded
- ▶ Data Extrapolation for areas that have not yet responded





# Tribal Participation

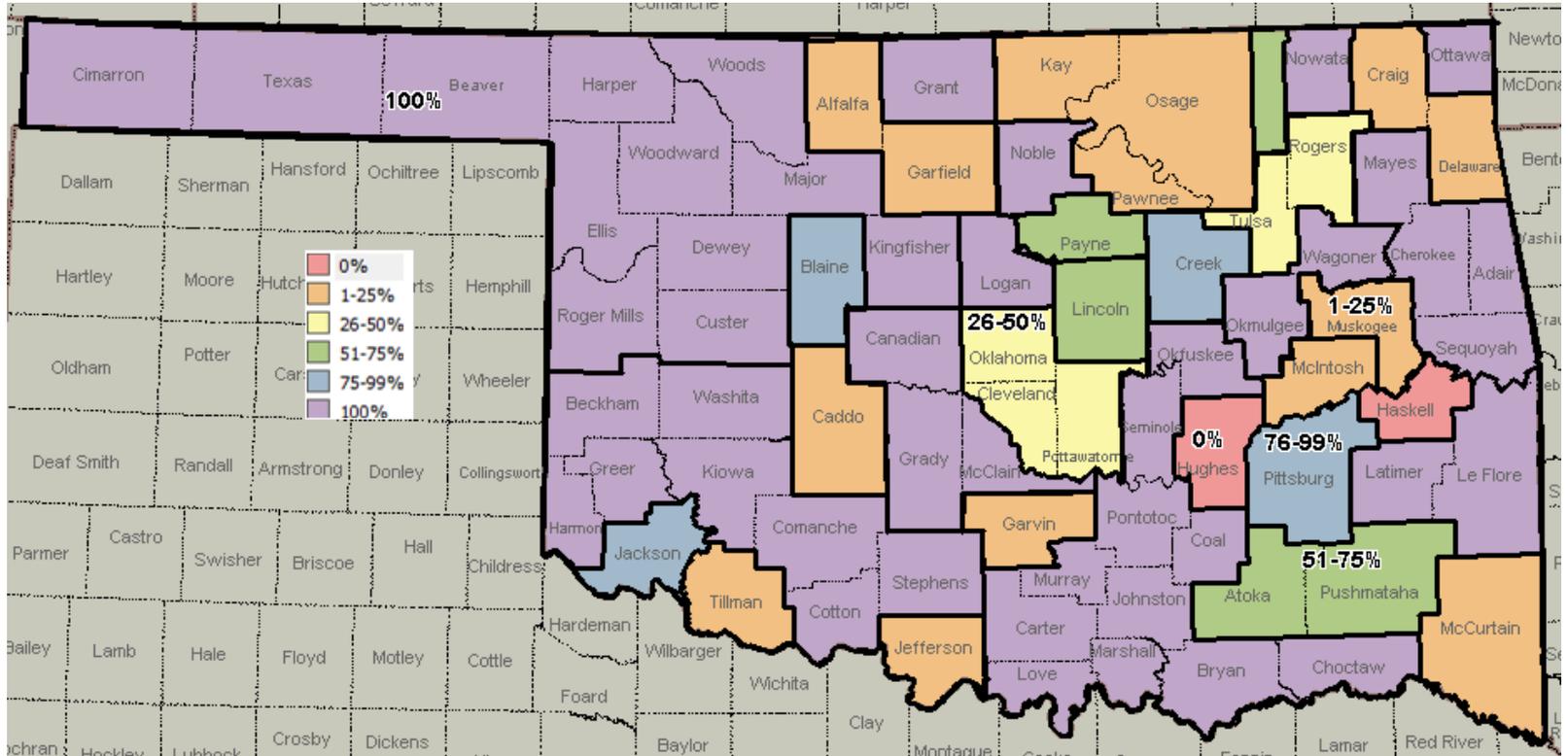
- ▶ Tribes Participating in Coverage Reviews to date
  - Chickasaw Nation
  - Comanche Nation
- ▶ Tribes Providing Survey Data to date
  - Cherokee Nation
  - Cheyenne and Arapaho Tribes
  - Choctaw Nation
  - Iowa Tribe of Oklahoma
  - Otoe-Missouria Tribe
  - Tonkawa Tribe
  - Wyandotte Nation







# Personnel and Vehicle Counts



- **48 Counties** have provided personnel and vehicle counts for 100% of their agencies
- **1110 agencies** with personnel and vehicle counts





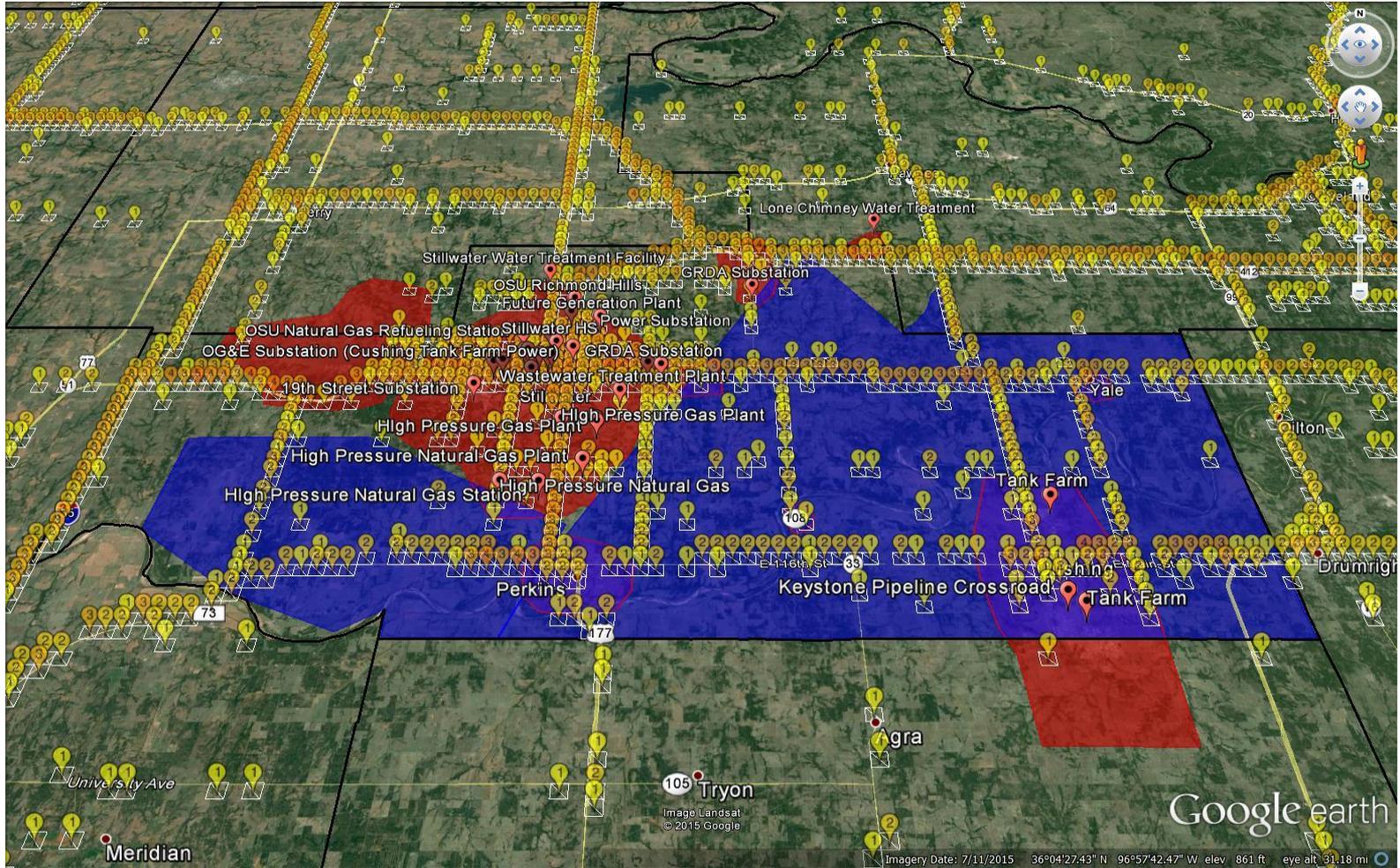
# Coverage Reviews

- ▶ WebEx session with First Responders to determine current coverage, hot spots, and future coverage
- ▶ Identify:
  - Critical Service Areas (CSA)
  - Extended Service Areas (ESA)
  - Critical Infrastructure
  - Points of Interest
- ▶ Map input live on line
  - Aggregate to state level
  - Primary input to Phased Build-out Plan





# Coverage Review Example

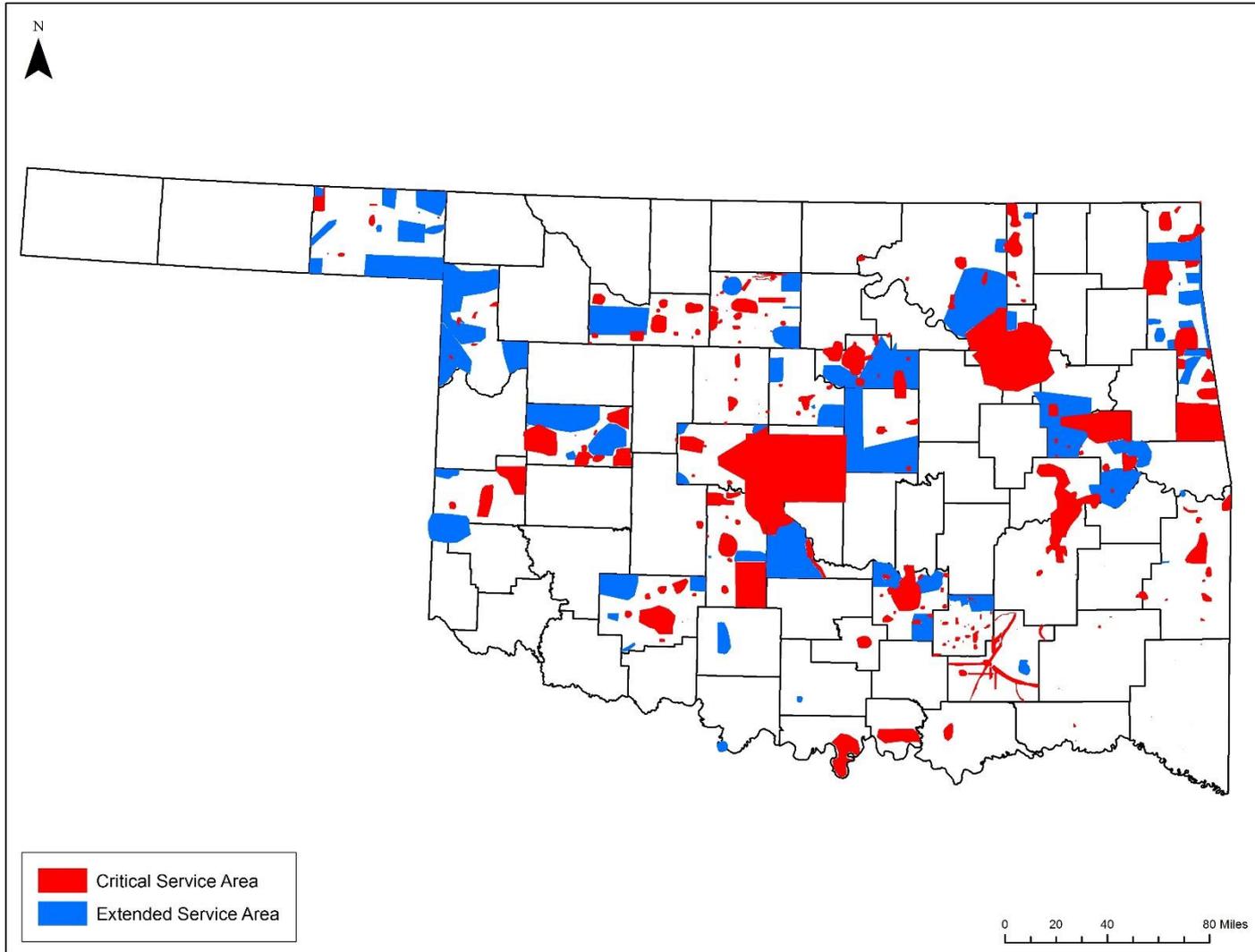


Payne County



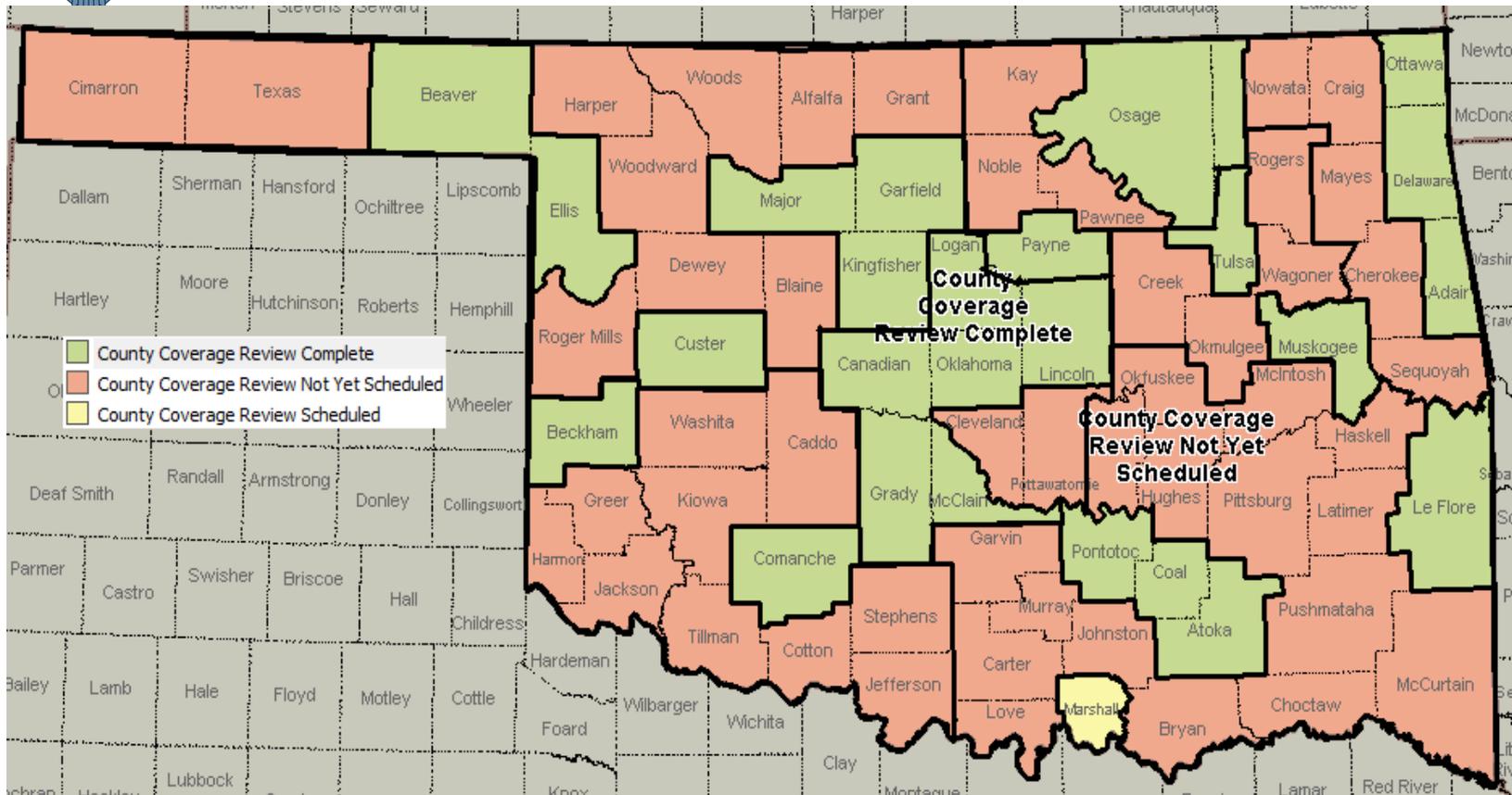


# State Map- CSA and ESA





# Coverage Review Progress



- **31 Coverage Reviews held**
- **10 Quick Start Counties/ Quick Start Tribes Complete**
- **1 Coverage reviews scheduled to occur in November**





# Build-Out Strategy

Oklahoma Public Safety Broadband Network Project

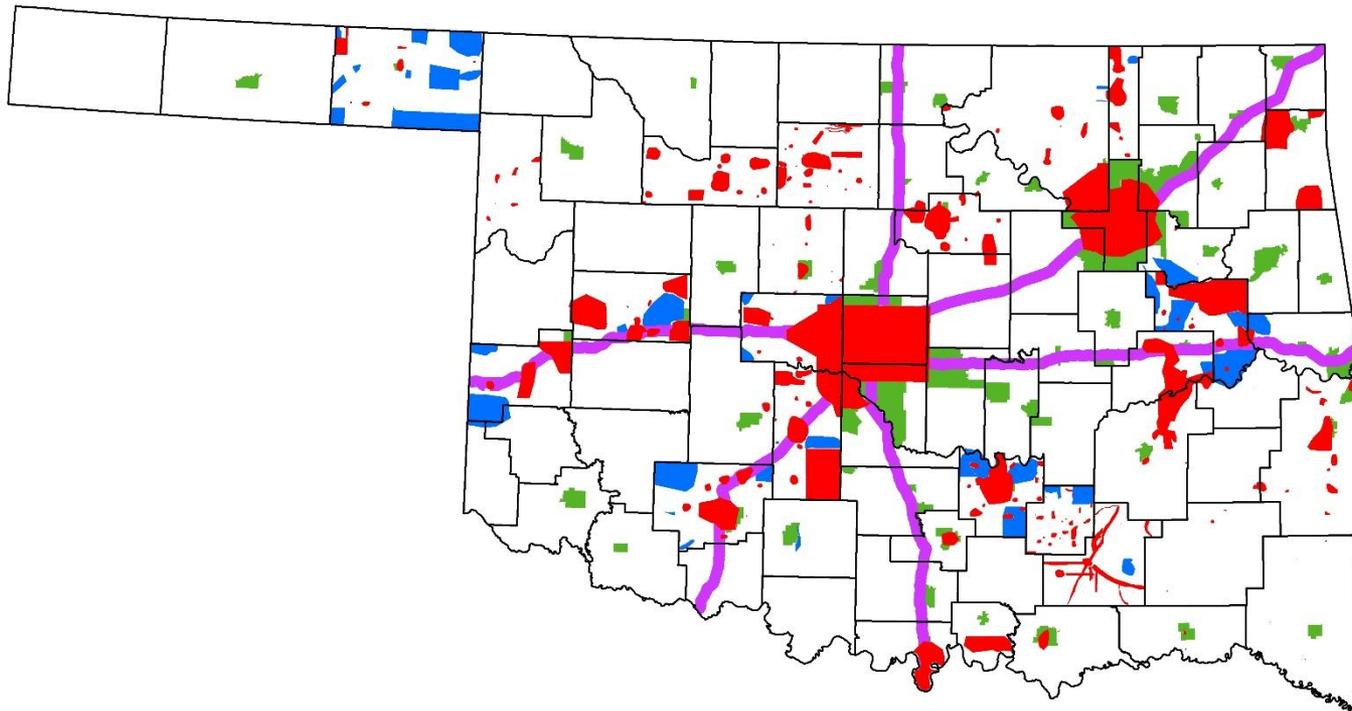
Coverage Prioritization Variable	Phased Implementation				
	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
Interstate/US Highway	✓	✓	✓		
State Highway	✓	✓	✓		
Required Service Area	✓		✓	✓	✓
Critical Service Area	✓				
Critical Infrastructure	✓	✓			
Extended Service Area	✓				
Population Covered (%)	78.1	85.8	93.3	97.4	99.8
Area Covered (Square Miles)	11,713	12,854	11,780	13,713	13,321
Area Covered per Phase(%)	16.8	18.3	15.3	24.0	21.4
Area Covered Cumulative(%)	16.9	35.1	50.4	74.4	95.8
<b>Current Net Commercial Coverage</b>					
	Area = 66,614Sq. mi	95.5%			

- Cover Critical Areas and Infrastructure Early
- Cover Population Early
- Transportation Corridors Reach Rural Areas Early
- Wilderness and Prairie Coverage by Deployable or Satellite



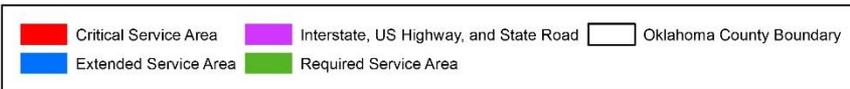
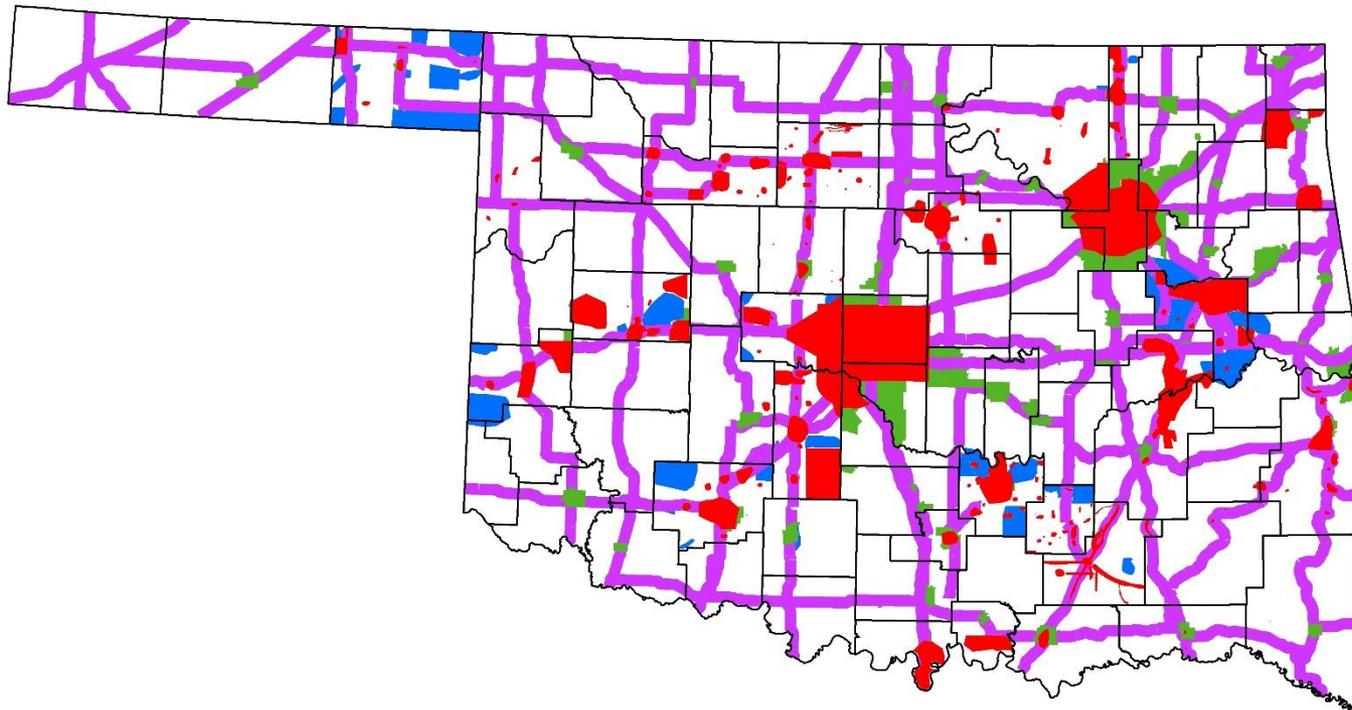


# Phase 1



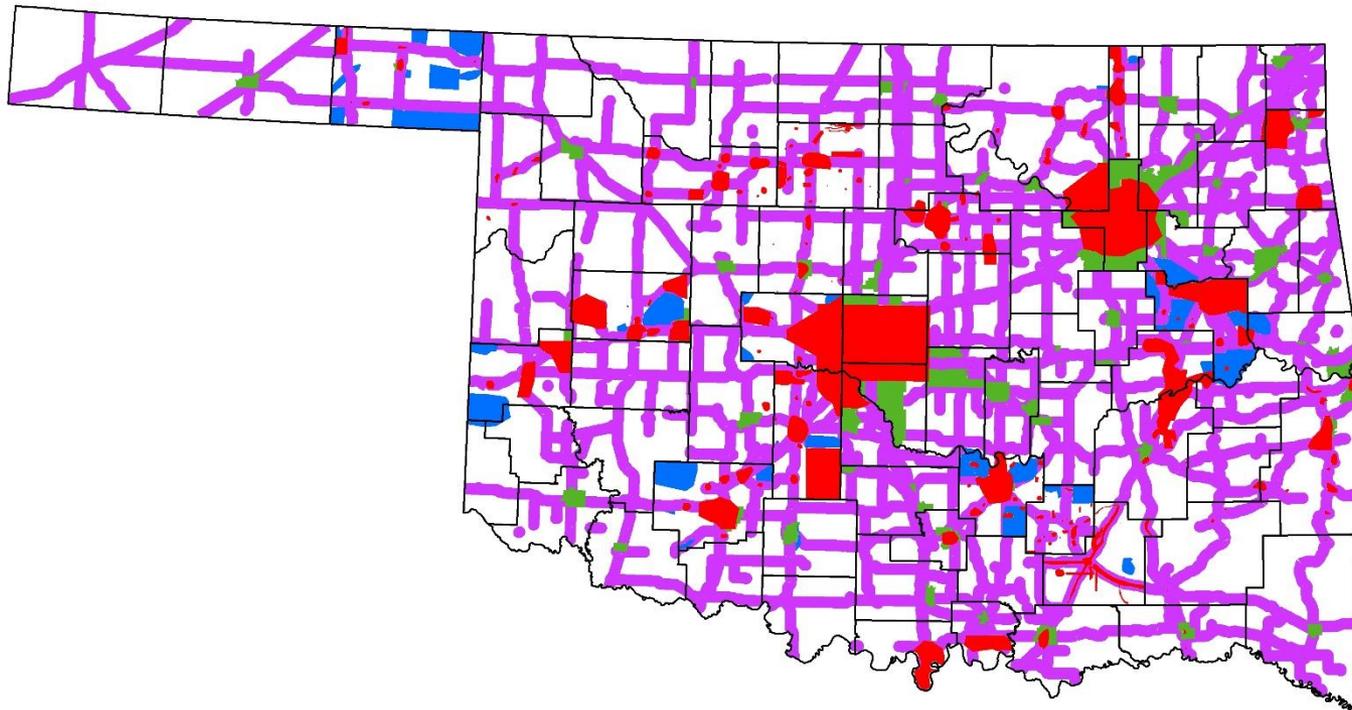


# Phase 2



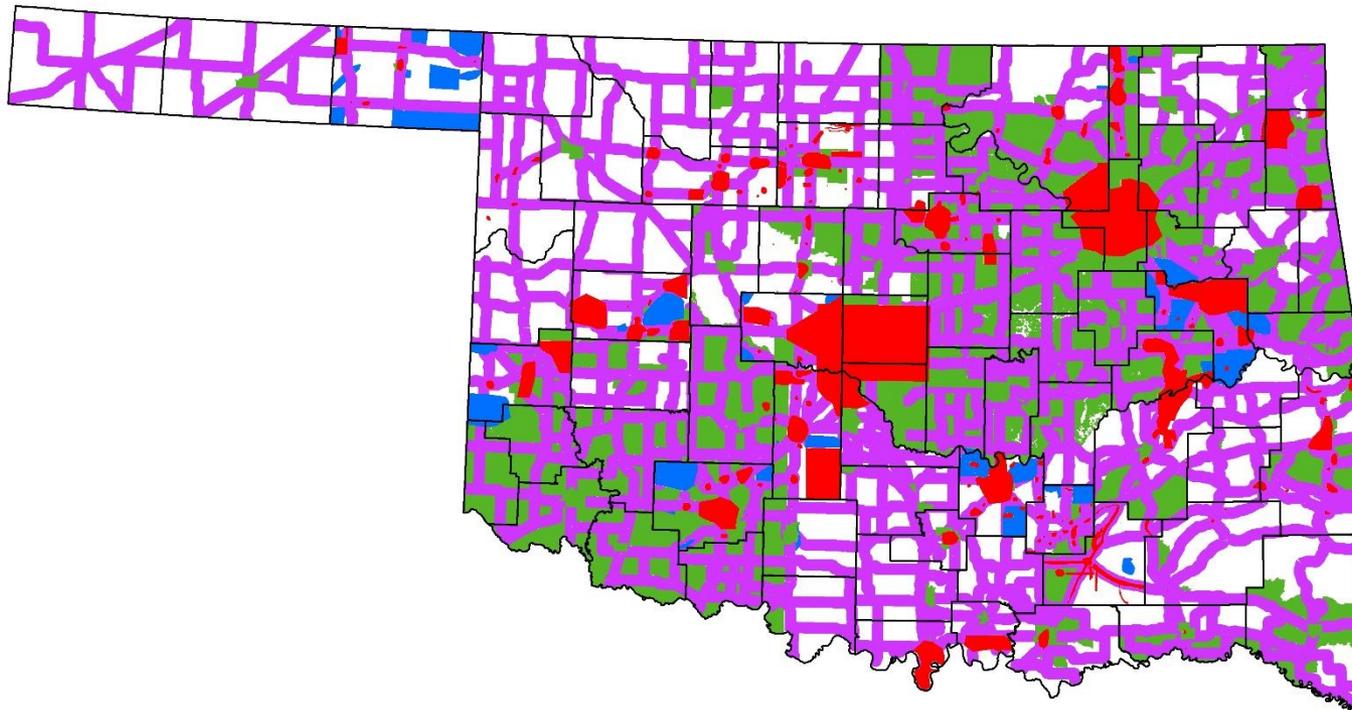


# Phase 3



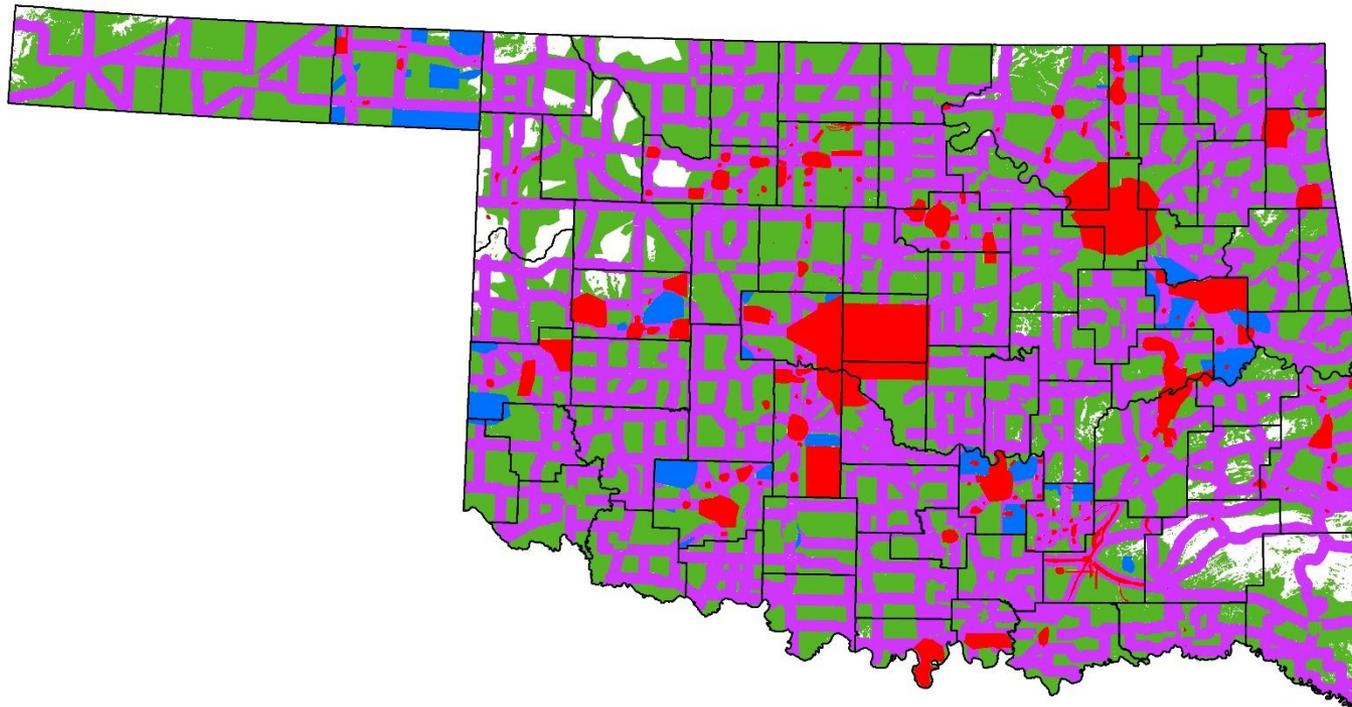


# Phase 4





# Phase 5





# Tribal Area Perspective

## Tribal Areas

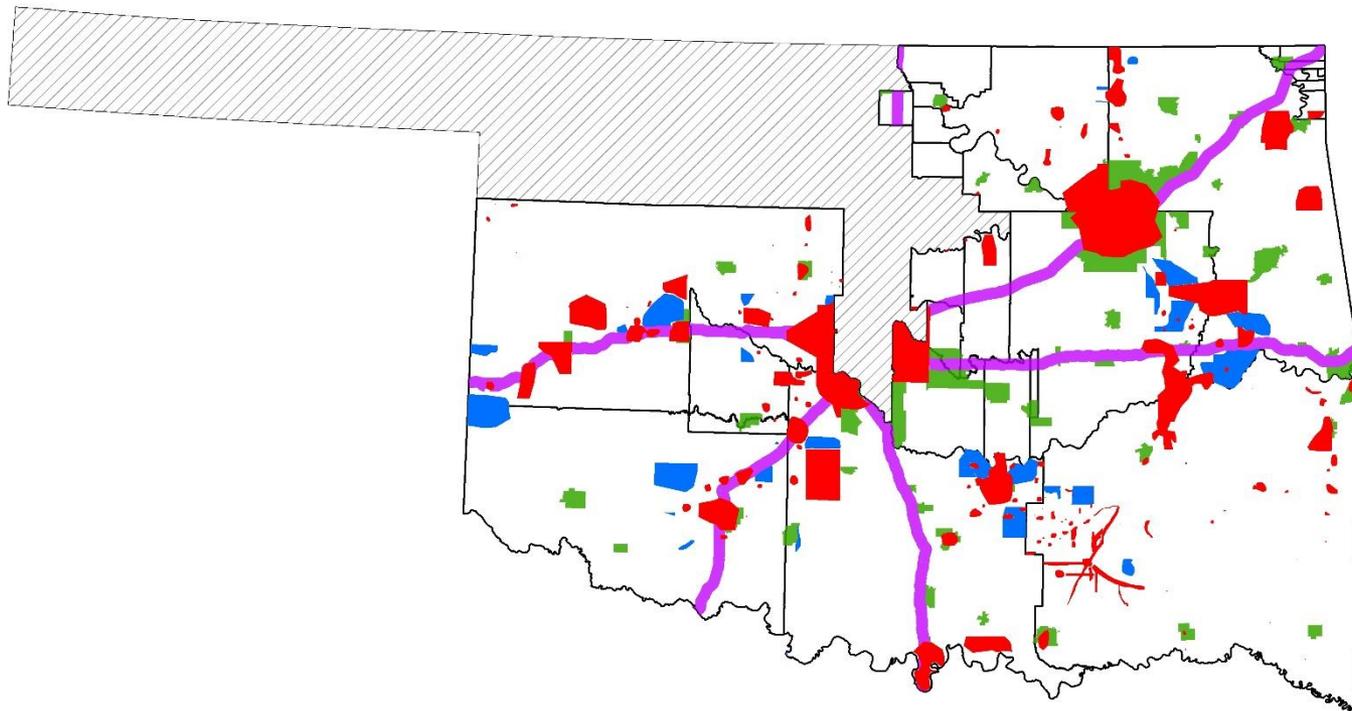
	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
Interstate/US Highway/State Highway (sq. mi.)	2207	9,107	9,219	5056	
Required Service Area	1701			9,909	8,569
Critical Service Area (sq. mi)	4227				
Critical Infrastructure (sq. mi.)					
Extended Service Area (sq. mi.)	1353				
Population Covered Cumulative(%)	71.8	83.2	92.4	97.4	99.8
Area Covered (Square Miles)	9,560	9,107	9,219	14,965	8,569
Area Covered per Phase(%)	17.8	17.1	17.3	28.0	16.1
Area Covered Cumulative(%)	17.8	34.9	52.2	80.2	96.3

Effect of Build-out on Tribal Areas





# Tribal Phase 1

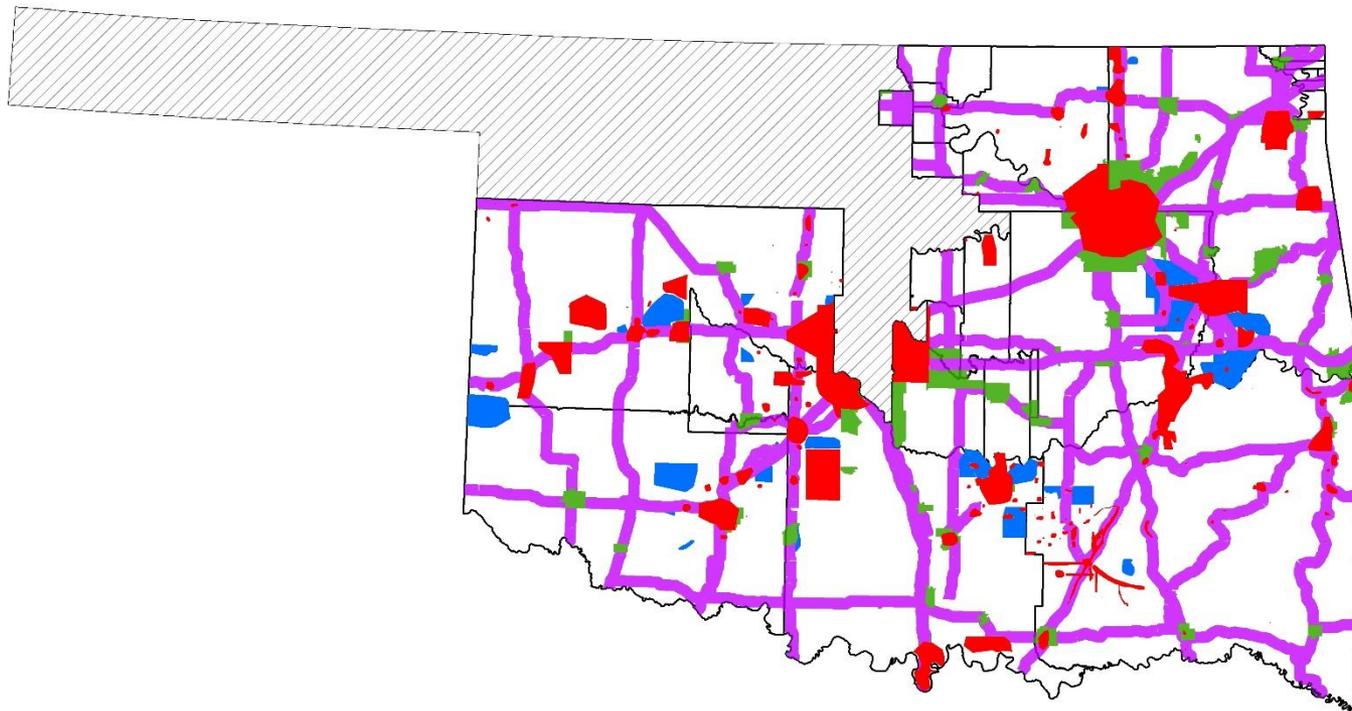


	Critical Service Area		Interstate, US Highway, and State Road		Oklahoma Tribal Boundary
	Extended Service Area		Required Service Area		Oklahoma





# Tribal Phase 2

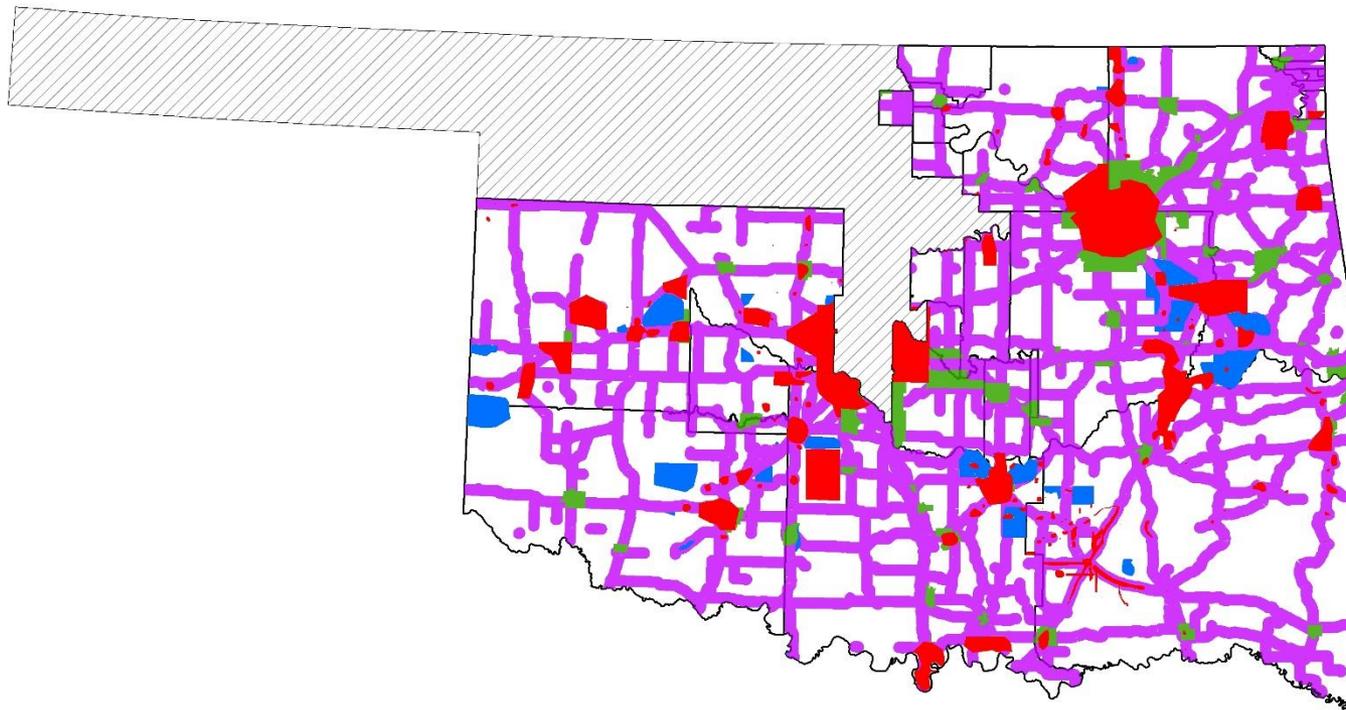


	Critical Service Area		Interstate, US Highway, and State Road		Oklahoma Tribal Boundary
	Extended Service Area		Required Service Area		Oklahoma





# Tribal Phase 3

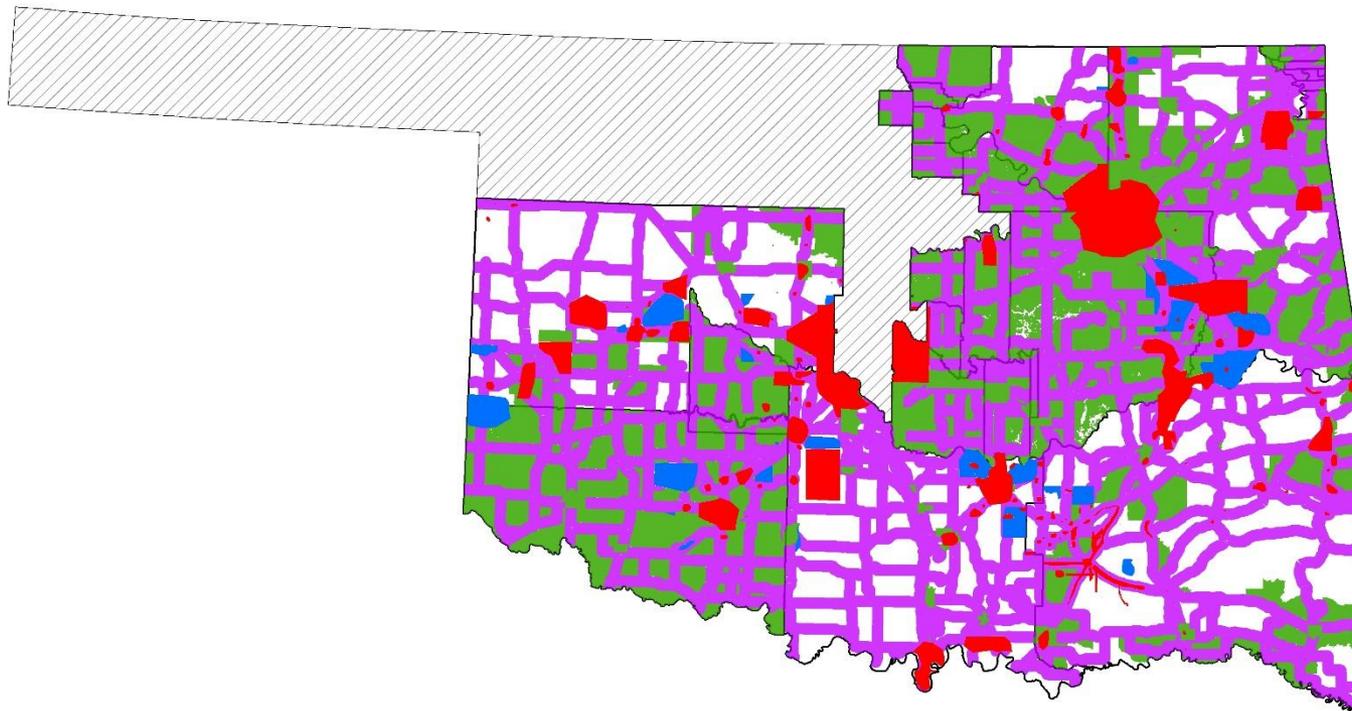


	Critical Service Area		Interstate, US Highway, and State Road		Oklahoma Tribal Boundary
	Extended Service Area		Required Service Area		Oklahoma





# Tribal Phase 4

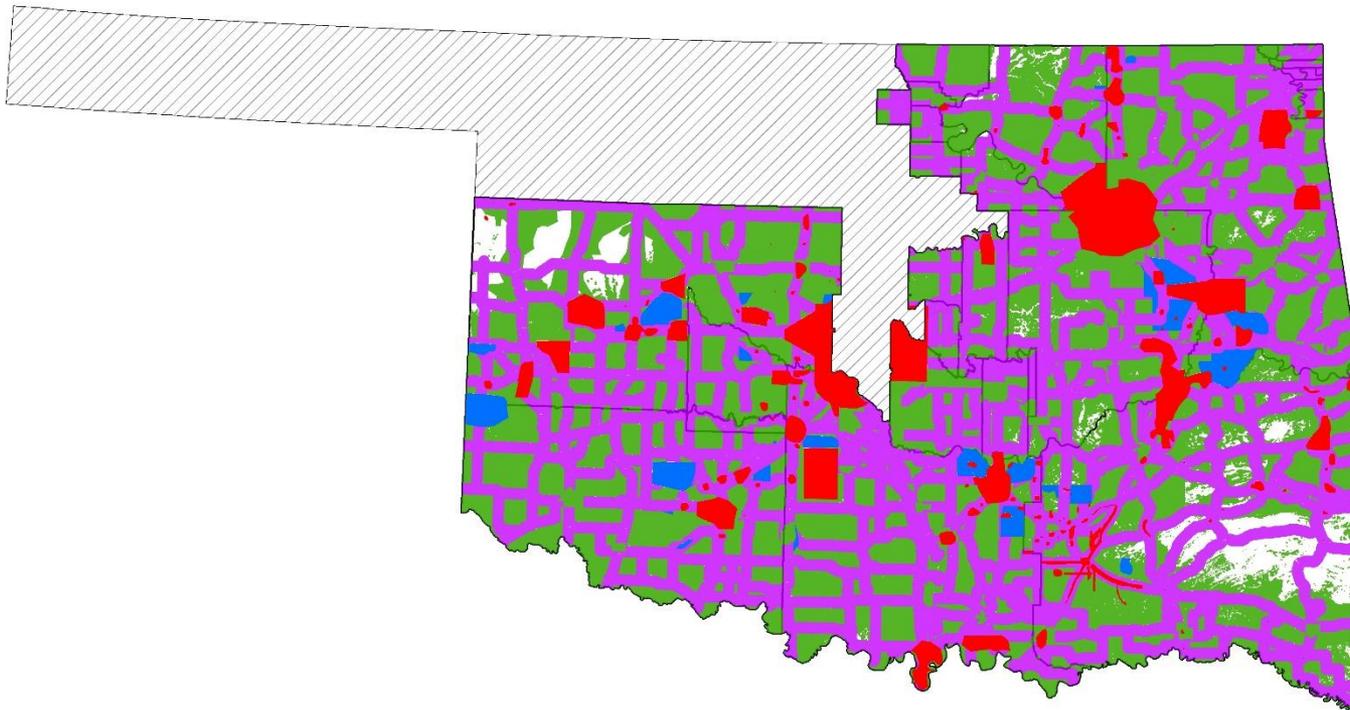


	Critical Service Area		Interstate, US Highway, and State Road		Oklahoma Tribal Boundary
	Extended Service Area		Required Service Area		Oklahoma





# Tribal Phase 5



	Critical Service Area		Interstate, US Highway, and State Road		Oklahoma Tribal Boundary
	Extended Service Area		Required Service Area		Oklahoma





# Next Steps

- ▶ Continue Outreach and Education
- ▶ Continue Data Gathering
- ▶ Develop Governance Structure
- ▶ Continue Tribal Engagement Efforts
- ▶ Continue Coverage Reviews

