

# ENMR•Plateau Broadband Deployments

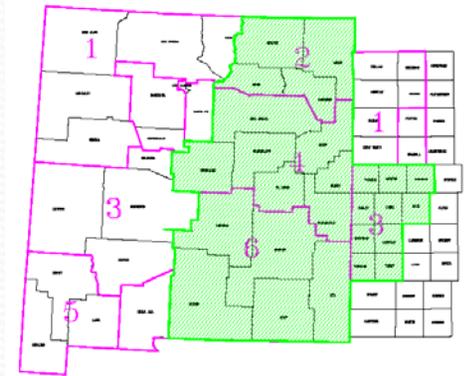
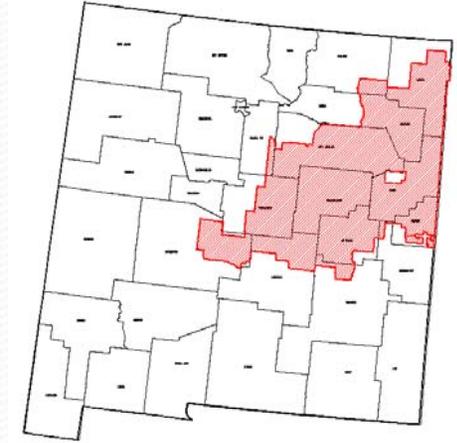
Buddy Vaughan, Chief Strategy Officer  
FCC/USDA Rural Broadband Workshop  
Austin, Texas  
September 18, 2008

# Overview

- Company Profile
- Broadband Deployments
- USDA Rural Development
- Summary

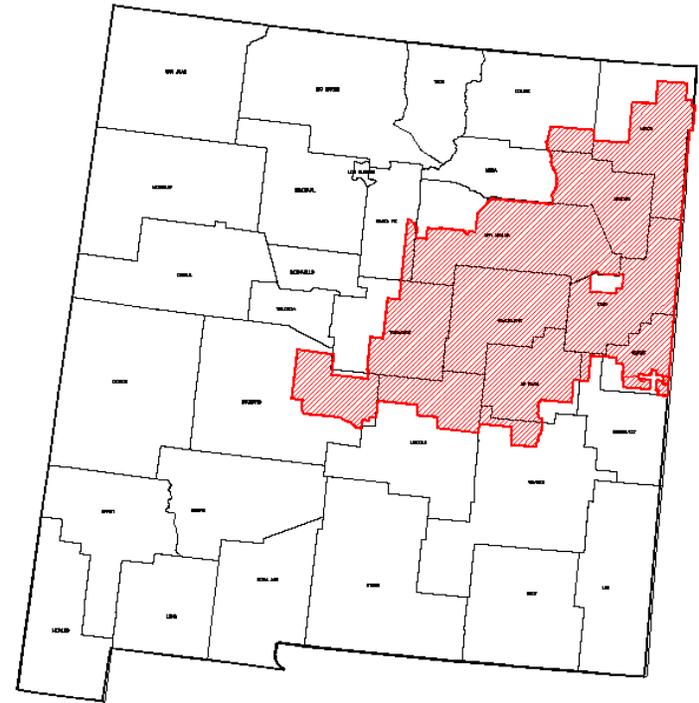
# Company Profile

- ENMR Telephone Cooperative
  - Founded in 1949
- Plateau Telecommunications
  - Started subsidiary in 1982
  - 1<sup>st</sup> company in NM to deploy FTTH
  - 2<sup>nd</sup> largest ISP in the state of NM
- Plateau Wireless
  - Began in 1990



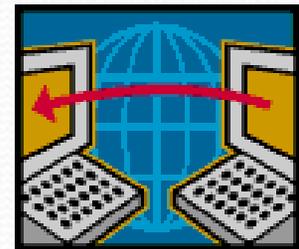
# What is Rural?

- ENMR
  - 25,000 square miles
  - 1/2 member every sq. mile!
  - State avg. 16.1 per sq. mile
  - Can serve every member with Broadband!



# Broadband Deployments

- DSL
- Satellite Internet
- Fiber to the Home
- Wireless
- Wireless Internet



# DSL

- Reach 95% of the members
- ADSL
  - Up to 7 Mbps
- GoDigital
  - Extend ADSL up to 15 miles
- ADSL2+
  - Up to 24 Mbps
  - Depending on plant conditions and distance
  - 108 Broadband Loop Carriers
  - Fiber Fed with 900 miles of new fiber
- Currently providing 7 Mbps service to some very rural schools



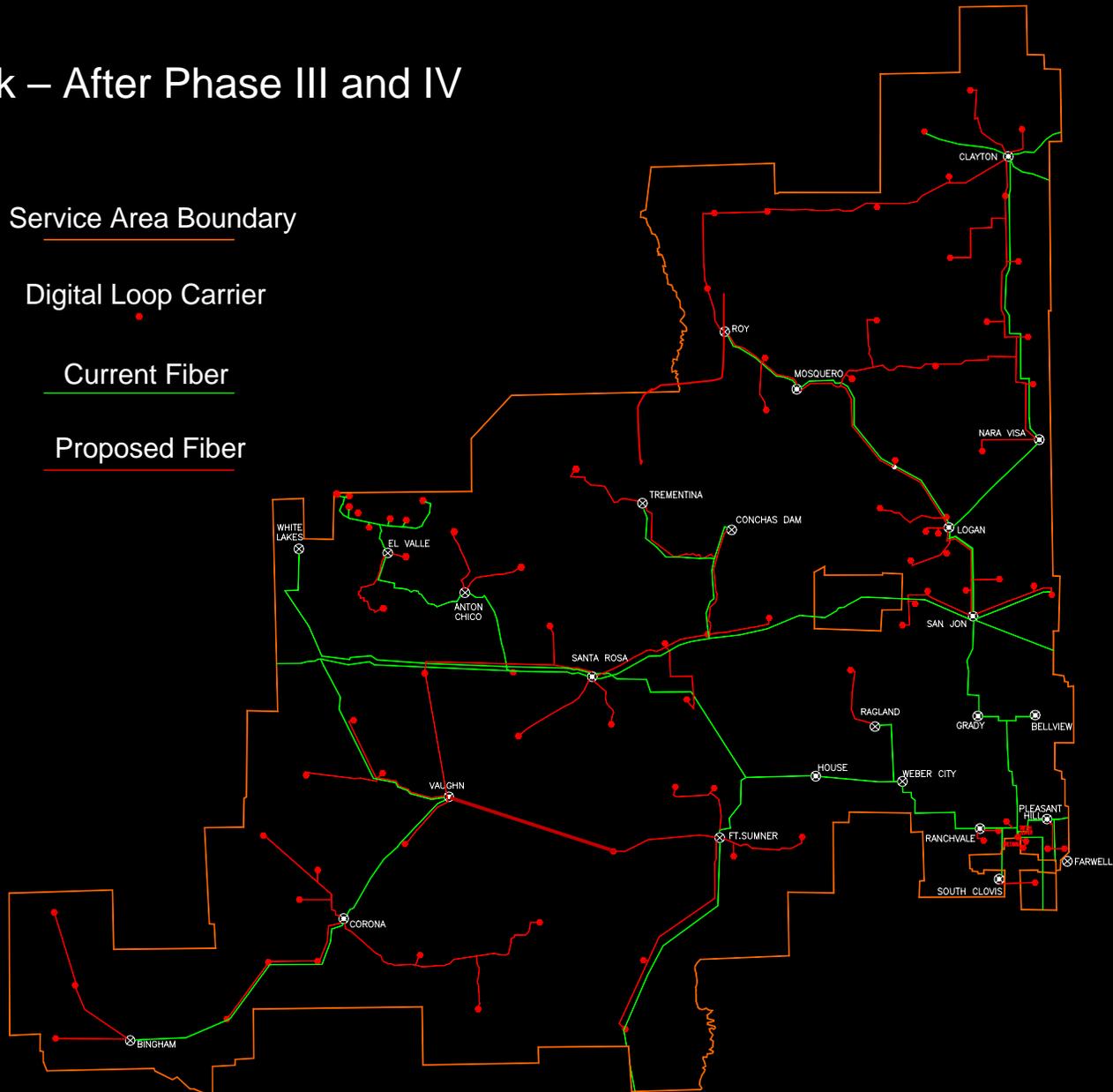
# Fiber Network – After Phase III and IV

Service Area Boundary

Digital Loop Carrier

Current Fiber

Proposed Fiber



# Satellite Internet

- WildBlue
- Enables 100% Broadband coverage
- Supplements DSL coverage



# Fiber to the Premise



- Began in 2005
- Residential
  - Targeting greenfields in a competitive market
- Business
  - Overbuilt business corridors in a competitive market
- Offer Broadband speeds up to 40 Mbps symmetrical
- Built fiber for two large school districts
- Distance learning with local university and community college to rural schools since 1990

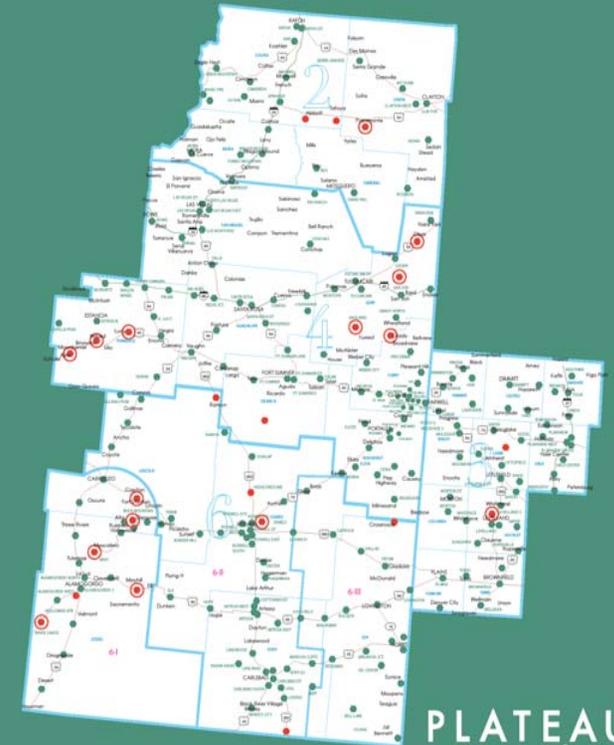
# Distance Learning Sites



# Wireless (Cellular)

- Extensive coverage in rural areas
- 850 MHz, 1800 MHz, 1900 MHz
- 75,000 sq. miles
- Data usage continues to grow

## Plateau Wireless Cell Sites



### LEGEND

- PLATEAU TOWER
- PROPOSED FUTURE SITE
- 2008 BUILD OUT
- RSA BOUNDARY

# Wireless Internet

- Began in 2004
- Licensed 2.5 GHz BRS/EBS
- In 7 markets
  - Clovis, Roswell, Dexter, Hagerman, Artesia, Carlsbad, and Tucumcari
- LMDS radios for backhaul
  - Licensed 28 and 31 GHz



# Wireless Internet

- NLOS (Non-line-of-sight)
  - Customer self-install
- Outdoor Units
  - Longer distance customers
- Mobile Units
  - Public safety
  - Service vehicles
- Laptop cards
  - Ultimate mobility
- Roaming between markets



# USDA Rural Development

- RUS loans
  - Fiber to the BLC's
- USF support
  - Cooperative infrastructure
  - Wireless infrastructure
- E•Rate
  - Supporting area schools and libraries



# Summary

- We're delivering Broadband a multiple of ways
- Licensed spectrum is very important to our wireless deployments
- USDA support is critical to our continued rural development

