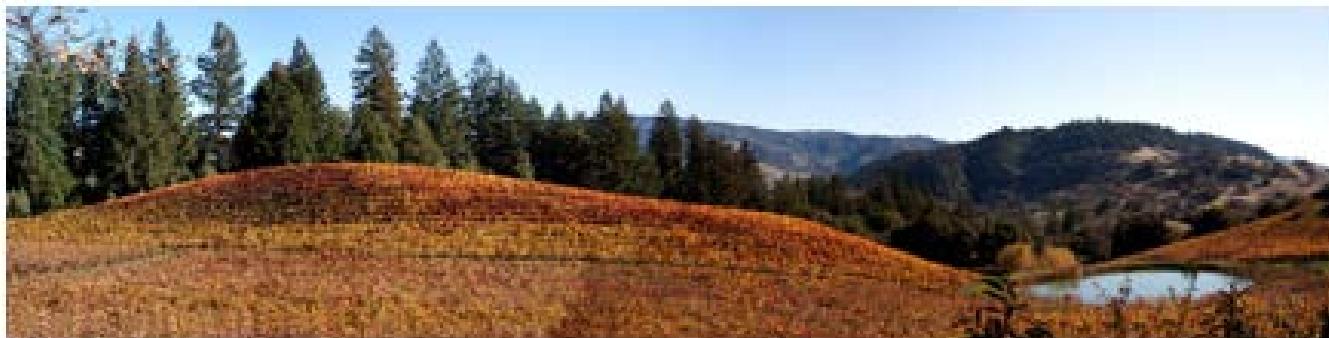


# MENDOCINO COUNTY DIGITAL INFRASTRUCTURE PLAN: 2019-2025



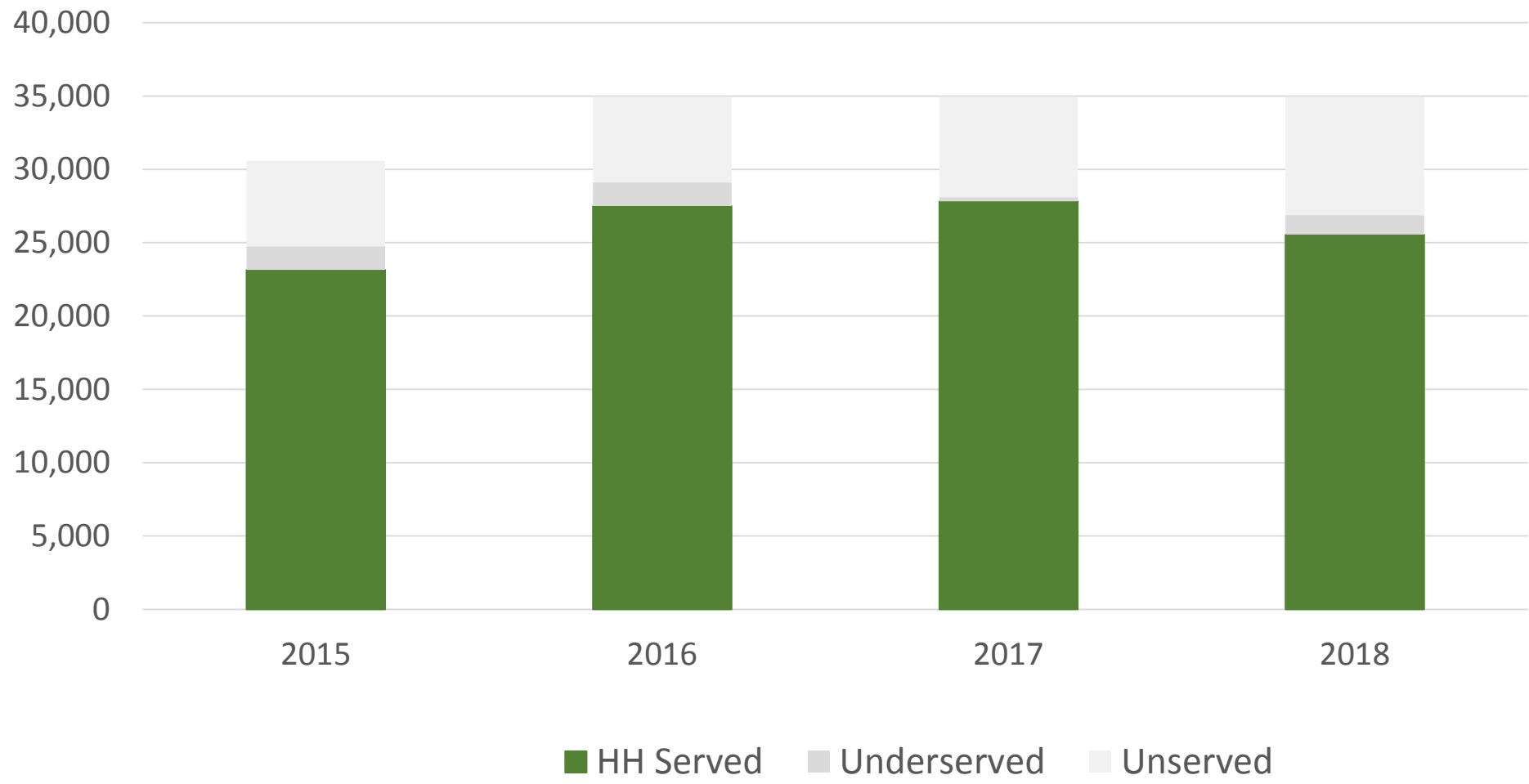
Prepared for the County of Mendocino by



***DEVELOP THE DIGITAL INFRASTRUCTURE  
NECESSARY TO HAVE AVAILABLE AND  
AFFORDABLE HIGH-SPEED INTERNET ACCESS  
FOR 98% OF HOUSEHOLDS IN MENDOCINO  
COUNTY BY 2025.***

- High Speed is 100 mbps download speed and 20 mbps upload speed
- Affordable is approximately \$70/month

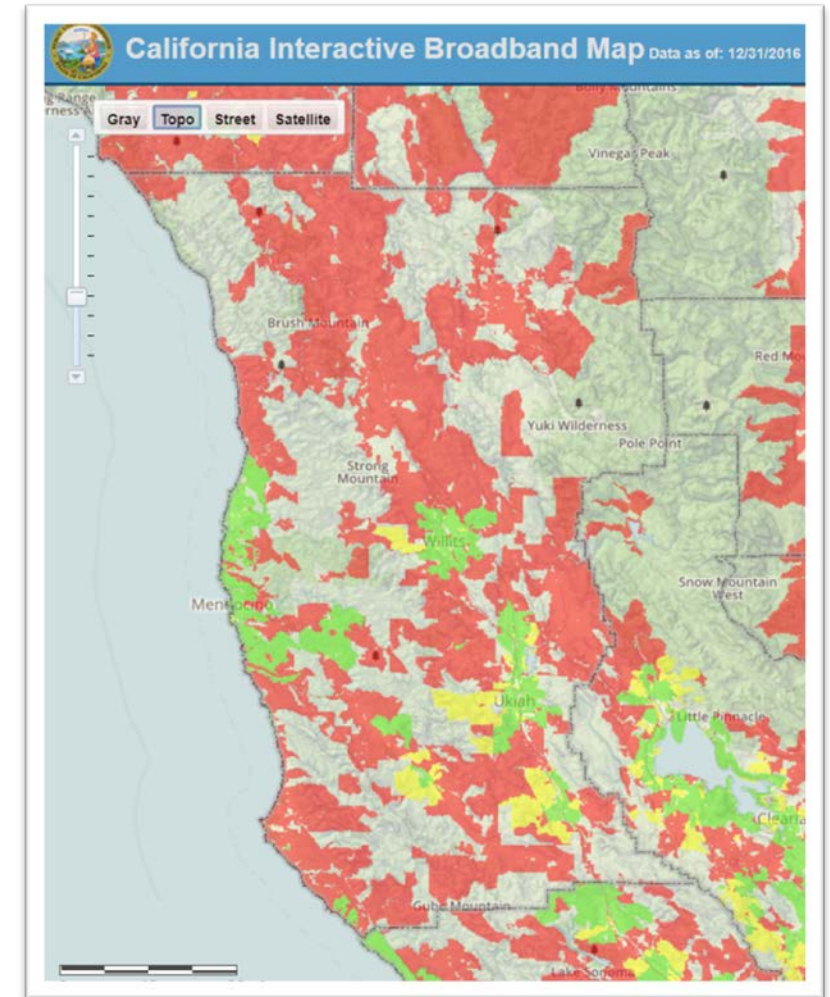
# California Public Utilities Commission High Speed Availability Data 2015-2018 in Mendocino County



	% HH Served
2015	66%
2016	79%
2017	80%
2018	73%

# Reality?

- # of households is based on 2010 Decennial Census
- By census block groups: 1 house served = whole block group
- WISPs are not reporting but serve an estimated 3,000 households in Mendocino County



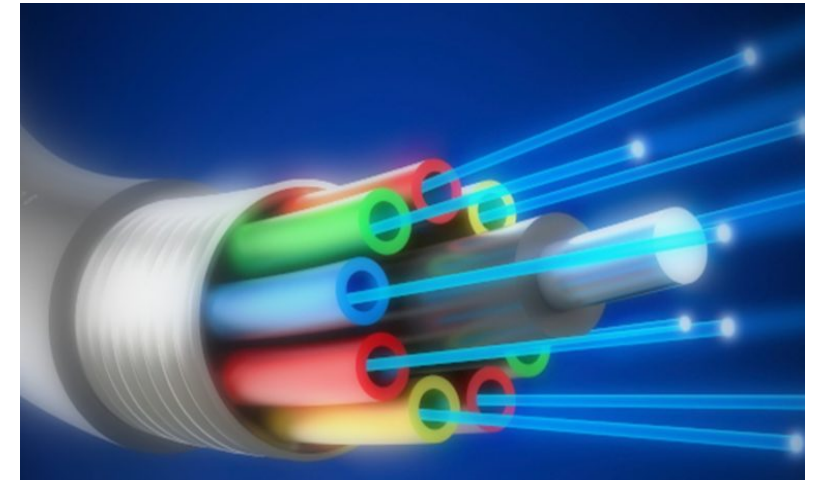
# SWOT Analysis: Strengths & Weaknesses

Strengths	Weaknesses
<ul style="list-style-type: none"><li>• Local government leadership</li><li>• Broadband Alliance of Mendocino County</li><li>• Wireless Internet Service (WISPS) &amp; Local Providers</li><li>• Existing partnerships and consortiums</li><li>• CPUC grant support</li><li>• Existing dark fiber</li></ul>	<ul style="list-style-type: none"><li>• Terrain and geology</li><li>• Population density and market size</li><li>• Economic capacity</li><li>• Lack of equity in access</li><li>• Socio-cultural context</li><li>• Playing catch up</li><li>• Lack of “lit” fiber and high cost of backhaul</li><li>• Dead zones in the cellular network</li><li>• Technology challenged households</li><li>• Lack of resilience and outdated infrastructure</li></ul>

# SWOT Analysis – Opportunities & Threats

Opportunities	Threats
<ul style="list-style-type: none"><li>• <b>“Dig Once” policies</b></li><li>• <b>Collaboration between WISPS</b></li><li>• <b>Statewide partnerships and initiatives</b></li><li>• <b>Telecommuters and overpopulation in nearby urban areas</b></li><li>• <b>Government and private grant funding</b></li><li>• <b>Public-Private-Partnerships</b></li><li>• <b>Employment training programs and rural technology education</b></li></ul>	<ul style="list-style-type: none"><li>• <b>Outside control of Mendocino County’s digital infrastructure</b></li><li>• <b>Power and influence of big telecommunication companies on national and state policies</b></li><li>• <b>Fires and natural disasters</b></li><li>• <b>Aging Infrastructure and deferred maintenance</b></li></ul>

**Objective: Develop Projects  
To Deploy Fiber-based And  
Fixed Wireless Technology  
To Remote And Rural Areas  
Of Mendocino County.**



# Objective: Create Policies At The Local Government Level That Support Improving The Network



# Objective: Develop Programs To Improve Equity And Inclusiveness



Photo by Further Reach



Photo by Further Reach

# Objective: Develop Projects That Improve Resiliency And Redundancy In Digital Infrastructure Systems



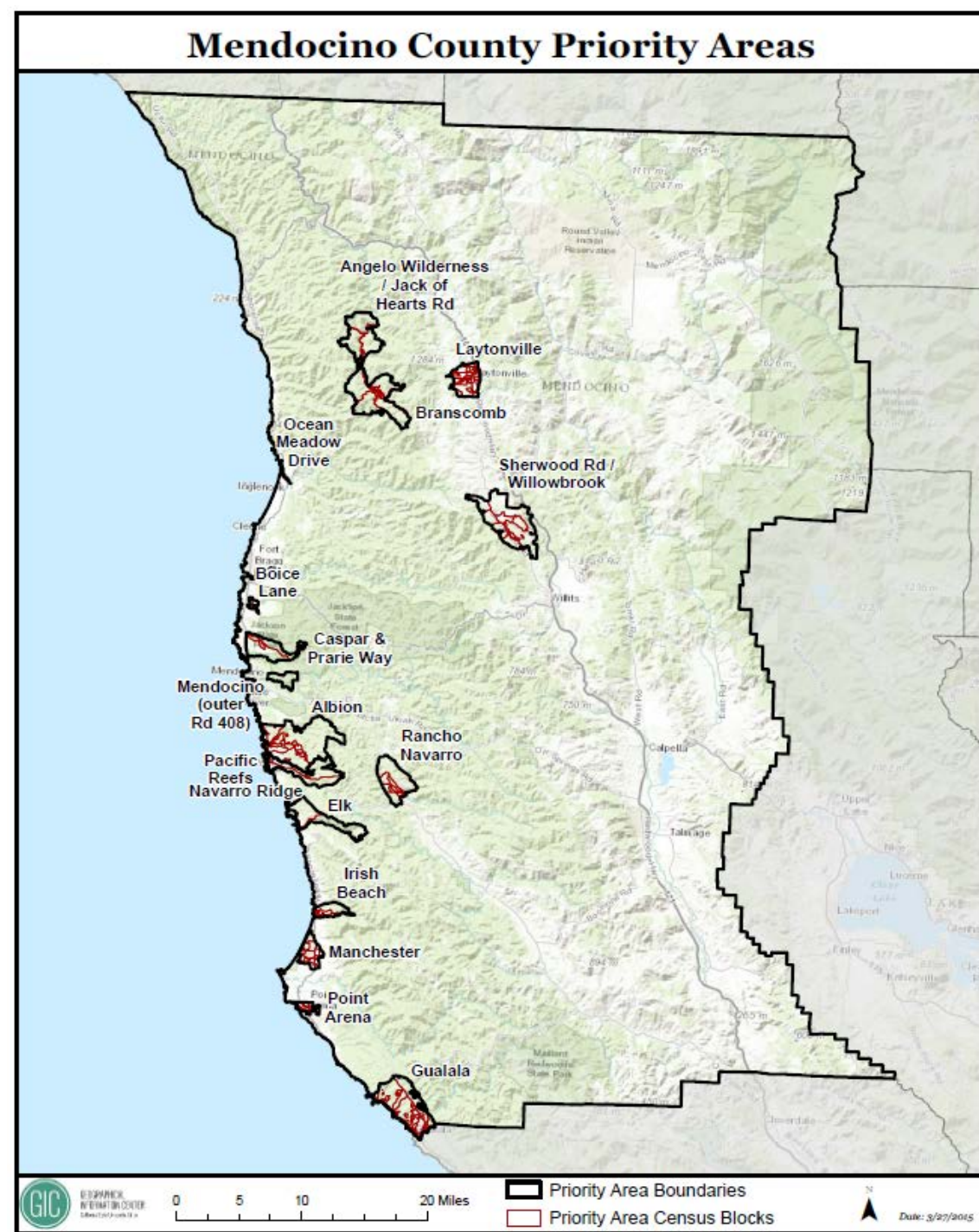
# Implementation

- Priority Areas
- Low Hanging Fruit & short-term projects
- Long-range project development



# 2015 Priority Areas

- Angelo Wilderness/Jack of Hearts Road and Branscomb Road west of Laytonville
- Laytonville
- Ocean Meadow Drive (north of Inglenook)
- Brooktrails: Sherwood Road and Willow Brook (north of Willits)
- Boice Lane (south of Fort Bragg)
- Caspar and Prairie Way
- Road 408 in Mendocino
- Pacific Reefs and Navarro Ridge Road
- ✓ Rancho Navarro
- ✓ Elk
- ✓ Irish Beach
- ✓ Manchester
- ✓ Point Arena
- ✓ Gualala



# Added priority areas for 2019

- Covelo/ Round Valley and Dos Rios
- Fort Bragg (outlying areas both east and south)
- Little River Airport Road
- Comptche Ukiah Road
- Road 409 (Mendocino/Caspar)
- Tomki Road area of Redwood Valley
- Ukiah Valley



# Low Hanging Fruit

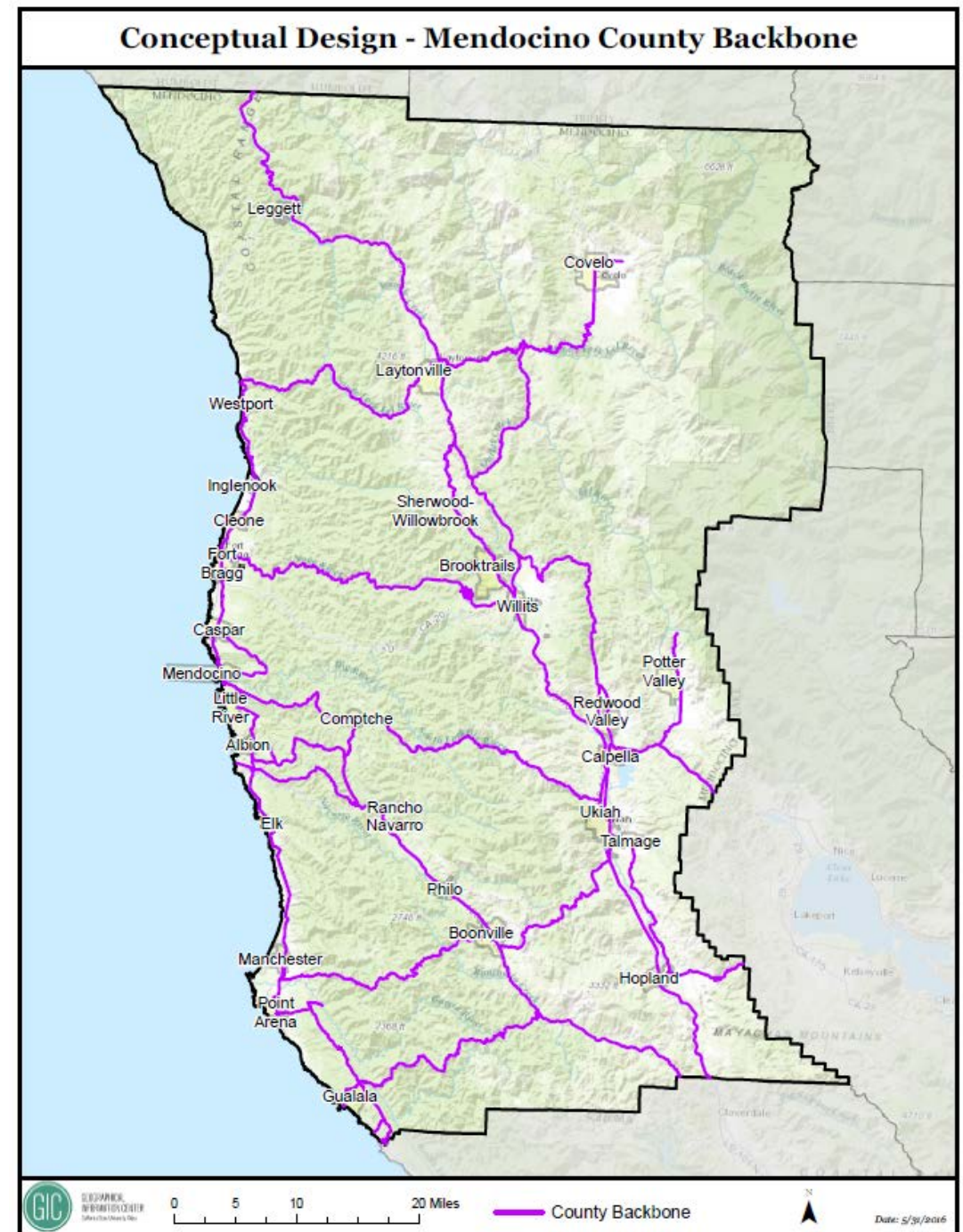
- Coordination with WISPs
- Increasing capacity and access to wireless based networks
- Improving backhaul access for local providers
- Developing programs for equity in access to High Speed Internet



Photo by Further Reach, Denovo

# The Long-Term

- Hardline infrastructure that supports the current and increasing demand for service
  - Public-Private-Partnership
  - Collaboration
  - Grant Funding
  - Rural Utility Cooperative



# Final Notes

- 4 months left on the county contract to begin implementation
- Buy-In from Cities
- NBNCBC plans to re-apply for CPUC funding to support continued broadband coordination
- Work with CENIC
- CDBG grant application to do a feasibility study for equitable distribution
- Review other countywide plans for other infrastructure development and start working on plans to include fiber deployment

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