

Lake County Broadband Update & Implementation Plan

- State Middle Mile Broadband Network
- Last Mile Federal Funding Account (FFA)
- State Digital Equity Capacity Subgrant
- Broadband Equity, Access, and Deployment Program (BEAD)
- Lake County Broadband Implementation Plan

January 7, 2025

State Middle Mile Broadband Network

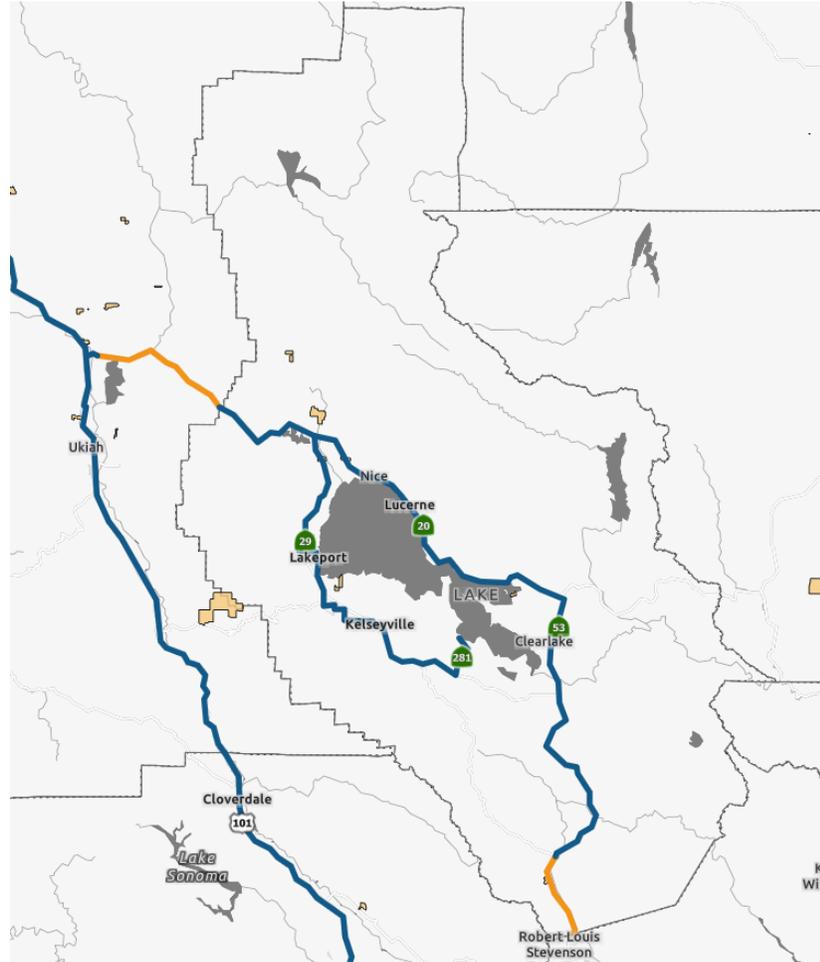
Lake County

- ▶ Pre-Construction: 83.5 Miles
 - ▶ Construction anticipated to start in 2025 and conclude in 2026 or 2027
- ▶ Constructed: 6 Miles
- ▶ Total: 89.5 Miles



Caltrans[®]

State Middle Mile Broadband Network



Last Mile Federal Funding Account

For Last-Mile Fiber to the Premise Broadband

- ▶ \$28.4 Million Allocated for Lake County
- ▶ \$14.6 Million Recommended by CPUC Staff in December 2024 for Three Lake County FFA Projects. One Mediacom Project and Two AT&T Projects. CPUC Approval Vote Scheduled for January 30, 2025
- ▶ \$13.8 Million in FFA Lake County Allocation Remaining
- ▶ All FFA Projects Would Offer at the Minimum 100 Mbps for Symmetrical Service and Fiber to the Premise

APPENDIX G
Mediacom Service Plans

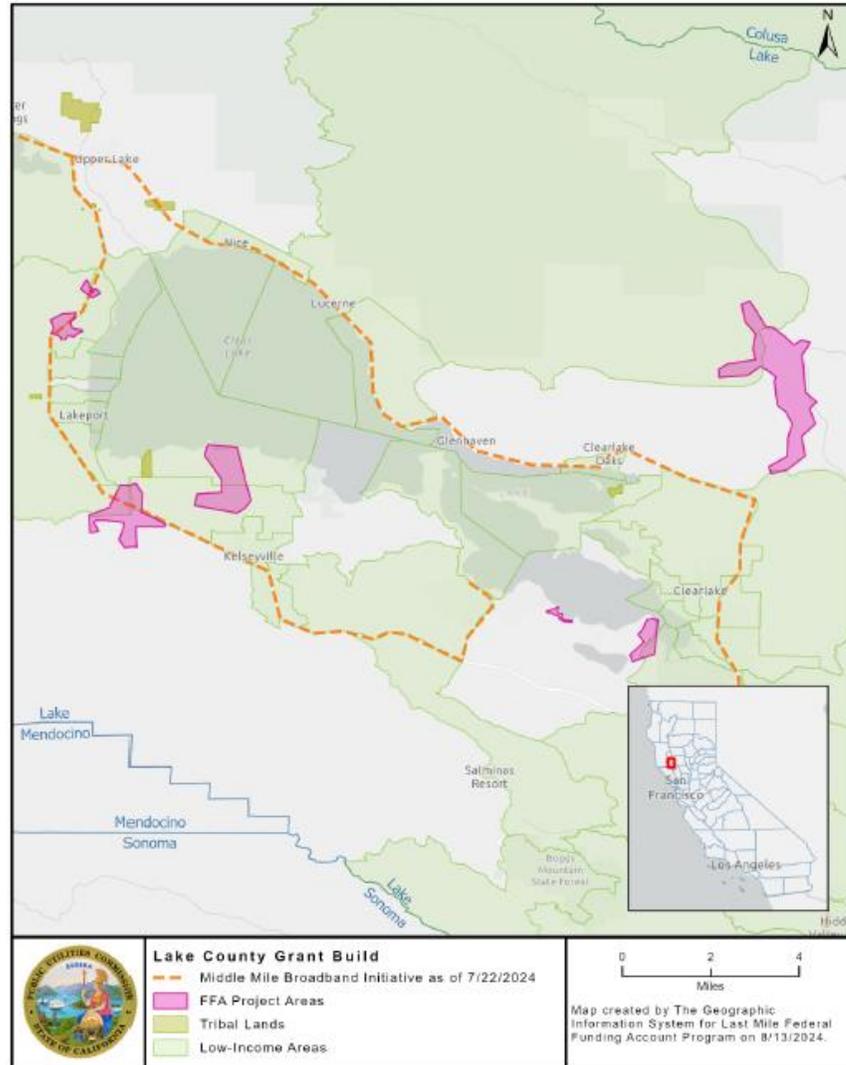
As a condition of the grant awards in this Resolution, Mediacom is obligated to offer service to customers in the project areas of the listed projects at no less than the speeds in the Table below, no more than 100 milliseconds of latency, and no more than the prices¹⁹ in the Table below, including installation, for at least five years following project completion.

- Lake County Grant Build

Plan	Speed	Price in 2024 Dollars	Notes
Connect2Compete	25/3 Mbps	\$14.95/month	Only available to residents with a student in a K-12 school on free/reduced lunch.
Connect2Compete Plus	100/20 Mbps	\$30/month	Only available to residents who qualify for the ACP.
Internet100	100/100 Mbps	\$39.99/month	Data Cap: 1000 GB
Internet300	300/100 Mbps	\$94.99/month	Data Cap: 1,500 GB
1 Gig Internet	1,000/100 Mbps	\$114.99/month	Data Cap: 3,000 GB
1 Gig Internet Symmetrical Unlimited	1,000/1,000 Mbps	\$154.99/month	No Data Cap
2 Gig Unlimited	2,000/1,000 Mbps	\$179.99/month	No Data Cap

As a condition of the grant awards in this Resolution, Mediacom has committed to provide LifeLine-discounted voice service in the project area listed.

Map of Mediacom's Lake County Grant Build Project
MCC Telephony of the West - Lake County Grant Build- Lake County



Mediacom FFA Project

Total Project Cost	\$12,711,544
FFA Award Amount	\$8,429,712
Unserved Housing Units in the Project Area	943
Estimated Unserved Population in the Project Area	1,982
Grant \$ Per Unserved Unit in the Project Area	\$8,939

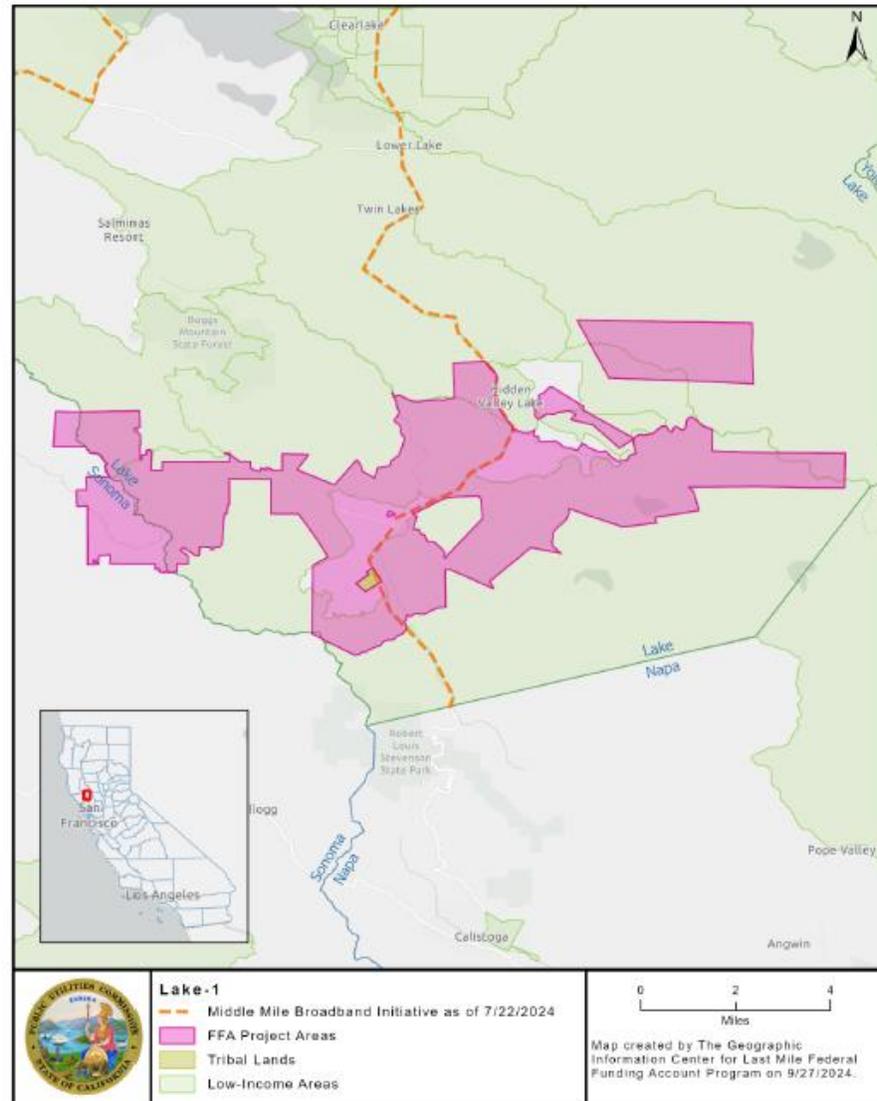
APPENDIX F
AT&T Service Plans

As a condition of the grant awards in this Resolution, AT&T is obligated to offer service to customers in the project areas of the listed projects at no less than the speeds in the Table below, no more than 100 milliseconds of latency, and no more than the prices¹⁷ in the Table below, including installation, for at least five years following project completion.

- Lake - 1
- Lake - 1E

Plan	Speed	Price in 2024 Dollars	Notes
Access from AT&T	100/100 Mbps	\$30/month	Customers must provide documentation showing eligibility for a qualifying program. ¹⁸ Price includes available \$5.00/month auto-pay discount
AT&T Fiber	300/300 Mbps	\$55/month	Price includes available \$5.00/month auto-pay discount
AT&T Fiber	500/500 Mbps	\$65/month	Price includes available \$5.00/month auto-pay discount
AT&T Fiber	1,000/1,000 Mbps	\$80/month	Price includes available \$5.00/month auto-pay discount
AT&T Fiber	2,000/2,000 Mbps	\$150/month	Price includes available \$5.00/month auto-pay discount
AT&T Fiber	5,000/5,000 Mbps	\$250/month	Price includes available \$5.00/month auto-pay discount

Map of AT&T's Lake - 1 Project
AT&T- Lake-1- Lake County

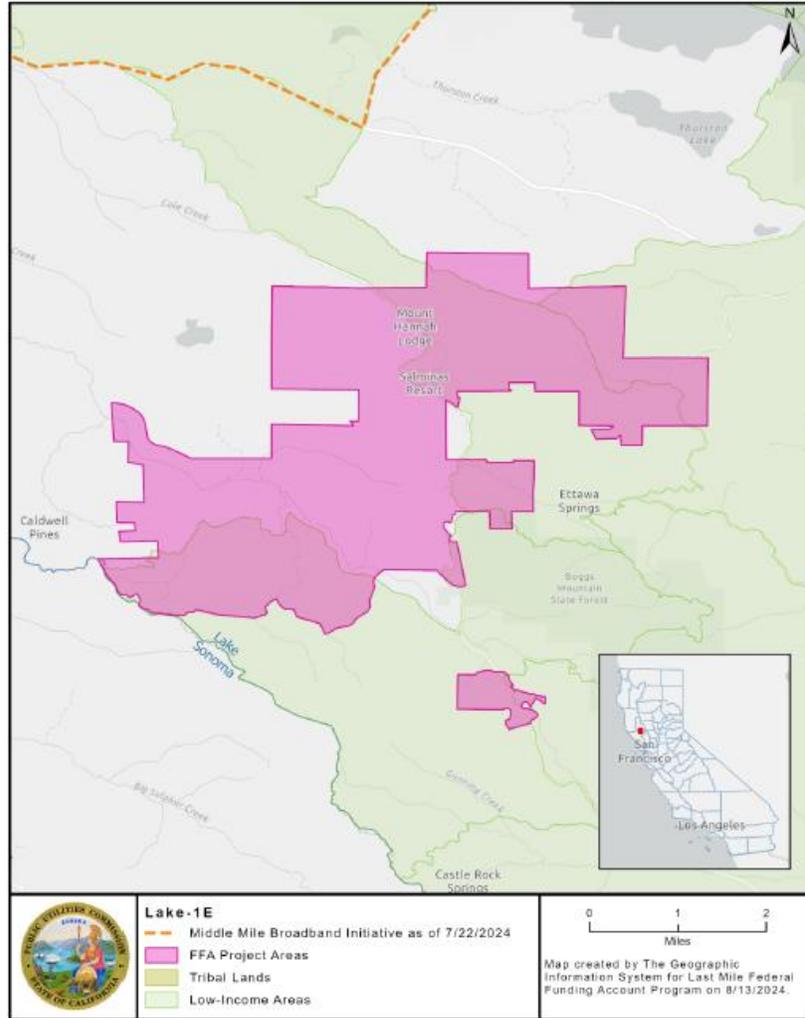


AT&T Lake-1 FFA Project

Total Project Cost	\$4,437,738
FFA Award Amount	\$2,218,869
Unserved Housing Units in the Project Area	629
Estimated Unserved Population in the Project Area	1,372
Grant \$ Per Unserved Unit in the Project Area	\$3,528

Map of AT&T's Lake - 1E Project

AT&T- Lake-1E- Lake County



AT&T Lake-1E FFA Project

Total Project Cost	\$5,906,345
FFA Award Amount	\$4,000,000
Unserved Housing Units in the Project Area	509
Estimated Unserved Population in the Project Area	992
Grant \$ Per Unserved Unit in the Project Area	\$7,859

State Digital Equity Capacity Subgrant

- ▶ \$341,172 allocated for Lake County
 - ▶ Develop local digital equity plans
 - ▶ Provide digital navigation services
 - ▶ Digital literacy training
 - ▶ Support targeted device distribution
 - ▶ Promote digital workforce development programs
- ▶ \$7.1 million application for National Digital Equity Competitive Grant Program
 - ▶ County Library, Habematolel Pomo of Upper Lake, and Mendocino College

Broadband, Equity, Access, and Deployment BEAD

- ▶ California has been allocated \$1.86 billion
- ▶ The National Telecommunications and Information Administration (NTIA) Approved California's BEAD program rules this October
- ▶ Awaiting subgrantees NOFO from CPUC. Projects can be for deployment, Community Anchor Institutions, non-deployment (workforce)
- ▶ Prioritization of end-to-end fiber
 - ▶ Extremely high cost per location threshold for fix wireless
- ▶ No 25% match requirement for subgrantees for “high-cost areas”
 - ▶ NTIA defines high-cost areas by formula of topography, remoteness, population density, and poverty + 80% unserved (less than 25 Mbps down and 3 Mbps up)

	Initial Proposal Approved by NTIA	Challenge Process Concluded	Internet Service Provider Selection Begun in the State/Territory	Internet Service Provider Selection Complete by State/Territory	FP Released for Public Comment by State/Territory
(5/5) Delaware	✓	✓	✓	✓	✓
(5/5) Louisiana	✓	✓	✓	✓	✓
(5/5) Nevada	✓	✓	✓	✓	✓
(3/5) Colorado	✓	✓	✓		
(3/5) Georgia	✓	✓	✓		
(3/5) Kansas	✓	✓	✓		
(3/5) Missouri	✓	✓	✓		
(3/5) Montana	✓	✓	✓		
(3/5) New York	✓	✓	✓		
(3/5) North Dakota	✓	✓	✓		
(3/5) Pennsylvania	✓	✓	✓		
(3/5) Washington	✓	✓	✓		
(3/5) West Virginia	✓	✓	✓		
(3/5) Wyoming	✓	✓	✓		
(2/5) Alaska	✓		✓		
(2/5) American Samoa	✓	✓			
(2/5) Arizona	✓	✓			
(2/5) Arkansas	✓	✓			
(2/5) CNMI	✓	✓			
(2/5) Illinois	✓	✓			
(2/5) Maine	✓	✓			
(2/5) Massachusetts	✓	✓			
(2/5) New Hampshire	✓	✓			
(2/5) South Carolina	✓	✓			
(2/5) Utah	✓	✓			
(2/5) Vermont	✓	✓			
(2/5) Wisconsin	✓	✓			
(1/5) Alabama	✗				
(1/5) California	✓				
(1/5) Connecticut	✓				
(1/5) District of Columbia	✓				
(1/5) Florida	✗				
(1/5) Guam	✓				
(1/5) Hawaii	✓				
(1/5) Idaho	✓				
(1/5) Indiana	✓				
(1/5) Iowa	✓				
(1/5) Kentucky	✓				
(1/5) Maryland	✓				
(1/5) Michigan	✓				
(1/5) Minnesota	✓				
(1/5) Mississippi	✓				
(1/5) Nebraska	✓				
(1/5) New Jersey	✓				
(1/5) New Mexico	✓				
(1/5) North Carolina	✓				
(1/5) Ohio	✓				
(1/5) Oklahoma	✓				
(1/5) Oregon	✓				
(1/5) Puerto Rico	✓				
(1/5) Rhode Island	✓				
(1/5) South Dakota	✓				
(1/5) Tennessee	✓				
(1/5) Texas	✓				
(1/5) U.S. Virgin Islands	✓				
(1/5) Virginia	✓				

Presentation to the Lake County Board of Supervisors on the Broadband Implementation Plan

Presented by:
Tom Robinson, President & CEO
Dick Nielsen, Senior Engineer
Krystene Rivers, Senior Research Associate

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January 7, 2025

Plan Sections

- ▶ Community Anchor Institutions (CAIs) at 1 Gbps.
- ▶ Implementing Rights-of Way (ROW) Management Policies/ Processes/Procedures to Accelerate Broadband Deployment.
- ▶ Developing Partnerships and Working with Broadband Providers.
- ▶ Improving Broadband Internet Reliability, Resilience and Redundancy in Lake County.

Plan Sections

- ▶ Regional Collaboration and Cooperation.
- ▶ Advocacy and Funding Opportunities at the State and Federal Level.
- ▶ Expanding Public Access to the Internet and Other Broadband Adoption-Spurring Initiatives.
- ▶ Continuing Outreach to, and Engagement with, the Lake County Community.

Community Anchor Institutions (CAIs) that don't yet have 1 Gbps availability

Institution Name	Address	City	Approximate Distance to Broadband
Big Valley Grange 680	1510 Big Valley Rd.	Finley	Mediacom is estimated at 1.5 miles away, AT&T may be closer
Kelsey Cobb FS, LNU Kelsey Cobb FS, Station 34	8948 State Highway 175	Kelseyville	Mediacom is 4.5 miles away; AT&T may be closer
Mount Konocti COM/LO, LNU Mount Konocti COM/LO	8948 State Highway 175	Kelseyville	Mediacom is 4.5 miles away; AT&T may be closer
Westlake Seventh-day Adventist	6585 Westlake Road	Lakeport	Mediacom is estimated at 1.5 miles away, AT&T may be closer
Lakeport Fire Protection District Station 52	3600 Hill Road East	Lakeport	Mediacom is estimated at 1.5 miles away, AT&T may be closer
Moose Lodge 2284	15900 E. Highway 20	Clearlake Oaks	Mediacom is estimated at 3.5 miles away, AT&T may be closer
Northshore Fire Protection District Station 77 Spring Valley	3178 Tamarack Way	Clearlake Oaks	Mediacom is estimated at 1.5 miles away, AT&T may be closer, FFA Applications would provide service to this area.

Policies/Processes/Procedures to Accelerate Broadband Deployment

- ▶ Work with Lake County Departments/Organizations to develop proposed policies, processes and procedures:
 - This includes Public Works, Code Enforcement, Office of Emergency Services, Engineering and Inspection, Administration, Special Districts and others.
 - Perform a cost/benefit analysis to look at both the short-term and longer-term costs associated with the development and implementation of new policies and procedures.

Policies, Processes, Procedures to Accelerate Broadband Deployment

- ▶ Streamlined ROW permitting.
- ▶ Expanded utility coordination with ROW management projects.
- ▶ Develop a micro-trenching policy and permitting process.

This trench is approximately 2" wide and 18" deep.

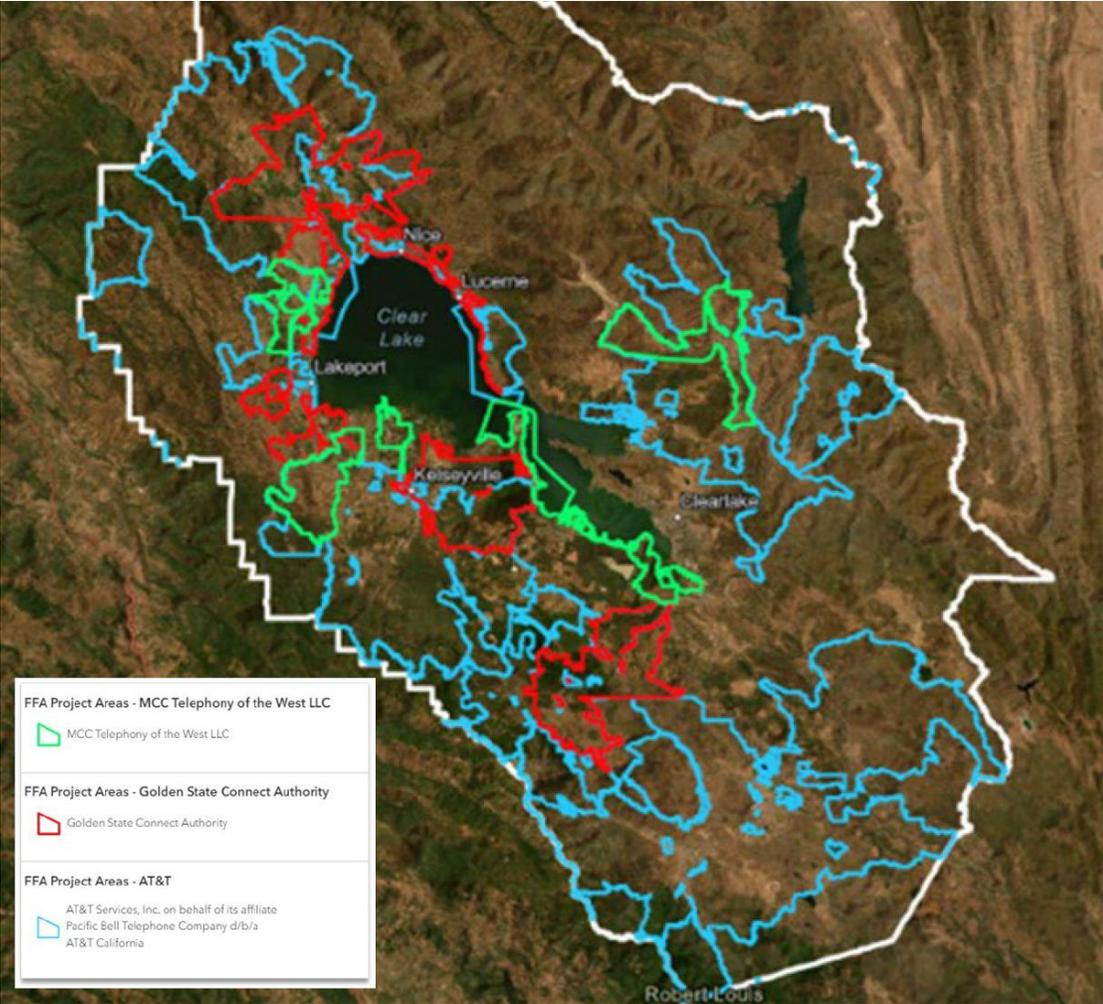


Policies, Processes, Procedures to Accelerate Broadband Deployment

- ▶ **Develop a Dig Once Policy:**
 - Focus on County road construction and underground utility projects.
 - Public utility, and private provider, joint trench.
- ▶ Master lease terms for County-owned vertical and other assets.

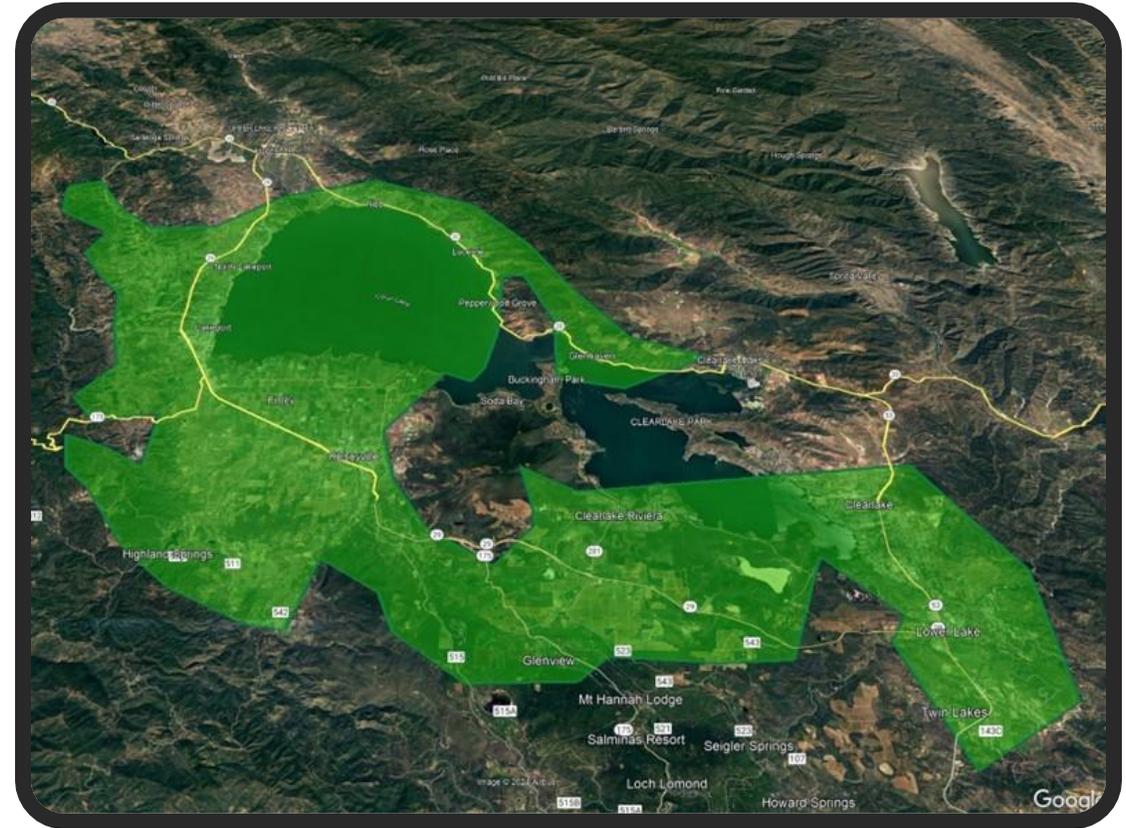
Developing Partnerships and Working with Broadband Providers

Last Mile Federal Funding Account Applicants - Wireline Providers



Wireless Providers

- ▶ Valley Internet's Current Wireless Footprint.



Improving Broadband Internet Reliability, Resiliency and Redundancy

- ▶ Mediacom increase in distribution system backup power.
- ▶ AT&T replacement of copper plant with fiber optics.
- ▶ Working with broadband providers to educate residents and businesses about the need for backup power of customer equipment.
- ▶ Anticipated use of the State middle mile network once completed.

Regional Collaboration and Cooperation

- ▶ Rural County Representatives of California (RCRC).
- ▶ Golden State Connect Authority (GSCA).
- ▶ Upstate California Connect Consortium (UCCC).
- ▶ Mendocino-Lake Region.

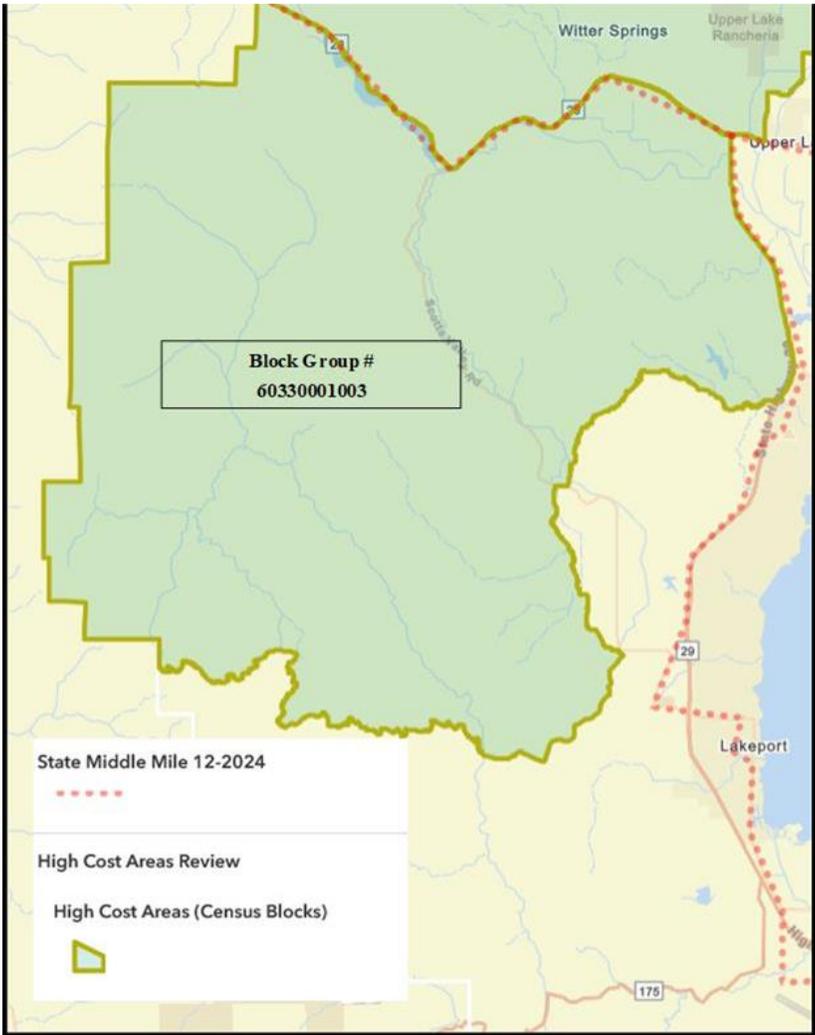
Advocacy and Funding Opportunities at the State and Federal Level

- ▶ California Public Utility Commission (CPUC).
 - Ongoing Capital CASF Grants.
 - Federal Funding Account.

Advocacy and Funding Opportunities at the State and Federal Level

- ▶ **Broadband Equity Access And Deployment (BEAD).**
 - Project areas defined by Census Block Groups (CBGs) and prioritized to first serve unserved locations and then underserved locations.
 - There is a 25% match requirement except for deployment in “high-cost areas”.

Example of High-Cost Census Block Group



Advocacy and Funding Opportunities at the State and Federal Level

- ▶ California Department of Technology (CDT) implementation of the State's Digital Equity Plan (SDEP) through Digital Equity Capacity Grants.
 - \$70.2 million designated grant funding statewide.
 - Approximately \$340,000 for Lake County.

Advocacy and Funding Opportunities at the State and Federal Level

- ▶ Grant funding can be used for:
 - Broadband adoption campaigns.
 - Broadband adoption efforts focusing on enrollment in affordable Internet service programs.
 - Digital navigation services.
 - Digital literacy training.
 - Targeted device programs to ensure that devices are relevant, useful and are provided in a manner sensitive to the specific needs Covered Populations.
 - Establishment and expansion of community computer labs/digital training programs at community centers.
 - Workforce training programs related to broadband infrastructure and other potential jobs.

Advocacy and Funding Opportunities at the State and Federal Level

- ▶ **NTIA Digital Equity Competitive Grants.**
 - The County, its Library and partners, Mendocino College and the HPUL tribe, recently applied for a \$7.1 million grant as part of federal competitive digital equity funding. The County is awaiting word on the status of its application.

Advocacy and Funding Opportunities at the State and Federal Level

- Potential USDA grants and loans.
- Potential US EDA grants and loans.

Expanding Public Access to the Internet and other Broadband Adoption-Spurring Initiatives

- ▶ Organizations involved in broadband access and other related initiatives:
 - County Agencies, such as Lake County Library, Department of Social Services, and Community Development.
 - Municipal governments.
 - Educational entities.
 - Tribal Nations.

Continuing Outreach to and Engagement with the Lake County Community.

- ▶ Outreach to the community regarding:
 - Affordable access to the Internet initiatives and programs.
 - Existing, expanded and new digital skills training and education.
 - All locations where public access to high-capacity Internet and Internet-capable devices and peripherals are available.

Continuing Outreach to and Engagement with the Lake County Community.

- ▶ Outreach regarding (cont.):
 - Loaner programs for Internet-capable devices and hotspots, especially for Covered Populations.
 - The availability of devices with accessibility features for people living with disabilities, where they can obtain them and learn how to most efficiently use them.

Continuing Outreach to and Engagement with the Lake County Community.

- ▶ Continual community engagement to obtain feedback:
 - Website/social media outreach.
 - Ongoing survey efforts to maintain a feedback loop.

Continuing Engagement to Obtain Feedback from the Lake County Community

Non-Subscriber Survey



EXHIBIT H - LAKE COUNTY INTERNET AND BROADBAND RESIDENTIAL SUBSCRIBER SURVEY

Dear Lake County Resident: Lake County is gathering information from residents about broadband and Internet availability, access, and adoption that will help the County work to provide you with better and more affordable Internet. Please take a few minutes to let us know how members of your household feel about these issues. Your responses are voluntary and anonymous. You will not be identified, and your responses will only be reported as part of a larger group. If you have any questions, please contact the County at 707-263-2360, ext. 39104.

To qualify to complete the survey you must live within Lake County, CA and be over 18 years of age.

1. Are you, and other members of your household, able to access the Internet at your home beyond just your cell phone?

- Yes (**Go to Q2**) No (**Please Use the Nonsubscriber Survey**)
 Don't have a cell phone (**Please Use the Nonsubscriber Survey**)

2. What type of home Internet service do you have at home? (**Check all that apply**).

<input type="checkbox"/> Cable or fiber broadband (Mediacom, AT&T)	<input type="checkbox"/> Cellular/Mobile broadband (T-Mobile, Verizon, AT&T)
<input type="checkbox"/> DSL (via wireline telephone network; AT&T copper line)	<input type="checkbox"/> Fixed wireless (wireless antenna to home router)
<input type="checkbox"/> Public/Community Wi-Fi	<input type="checkbox"/> Satellite (HughesNet / Starlink)
<input type="checkbox"/> Mobile hotspot	<input type="checkbox"/> Other (please specify) _____

Success of Home Internet Activities

3. Are all members of your household able to complete all the Internet activities you need and want, including video streaming and uploads?

- Yes (**Go to Q5**) No (**Please describe what you can't do**) _____

Barriers to Reliable Internet

4. What, if any, are the primary barriers to having sufficient and reliable Internet access at your home? (**Check all that apply**)

- None No Availability Affordability / Cost
 Speeds too slow (Insufficient Access) Accessibility (e.g., lack of necessary devices)
 Unreliable Service / Cuts in and out (Inconsistent Access)
 Other, please describe _____

Please turn page →



EXHIBIT H - ENCUESTA PARA LAS PERSONAS SUSCRITAS A INTERNET Y BANDA ANCHA DEL CONDADO DE LAKE

Estimado(a) residente del condado de Lake: El condado de Lake está solicitando información de los residentes sobre la disponibilidad, el acceso y la adquisición de banda ancha e Internet que ayudará al condado a ofrecerle un mejor y más económico servicio de Internet. Por favor tome unos minutos para compartir las opiniones de los miembros de su hogar sobre estos temas. Sus respuestas son anónimas y completamente voluntarias. Usted no será identificado(a) y sus respuestas solo serán declaradas como parte de un grupo. Si tiene alguna pregunta, comuníquese con el condado al 707-263-2360, ext 39104.

Para poder participar en esta encuesta, usted debe vivir dentro del condado de Lake, California y ser mayor de 18 de años de edad.

1. ¿Además de servicio de teléfono celular, tienes suscripción de servicios de Internet residencial o banda ancha en su hogar? Sí (**sig a la P2**)

- No (**complete la encuesta para las personas no suscritas**)
 No tengo un teléfono celular (**complete la encuesta para las personas no suscritas**)

2. ¿Qué tipo de servicios de Internet residencial tiene en su hogar? (**Marque todas las que correspondan**)

<input type="checkbox"/> Cable o fibra de banda ancha (Mediacom, AT&T)	<input type="checkbox"/> Teléfono celular o banda ancha móvil (T-Mobile, Verizon o AT&T)
<input type="checkbox"/> DSL (a través de la red telefónica alámbrica; línea de cobre AT&T)	<input type="checkbox"/> Conexión inalámbrica fija (antena inalámbrica al router del hogar)
<input type="checkbox"/> Wifi público o comunitario	<input type="checkbox"/> Satélite (HughesNet o Starlink)
<input type="checkbox"/> Punto de acceso móvil	<input type="checkbox"/> Otro (especifique) _____

Éxito de las actividades de Internet en el hogar

3. ¿Todos los miembros de su hogar pueden completar todas las actividades de Internet que necesitan y desean, incluyendo la transmisión de videos y subir archivos?

- Sí (**sig a la P5**) No (**explique lo que no puede hacer**) _____

Obstáculos para un Internet confiable

4. ¿Cuáles son los principales obstáculos que tienen en su hogar para tener acceso suficiente y confiable de Internet? r? (**Marque todas las que correspondan**)

- Ninguno Sin disponibilidad Asequibilidad o costo
 La velocidad es muy lenta (acceso insuficiente)
 Accesibilidad (por ejemplo, falta de dispositivos necesarios)
 Servicio no confiable o cortes seguidos (acceso inconsistente)
 Otro, especifique _____

Por favor, pase página →

Q & A

Thank you !