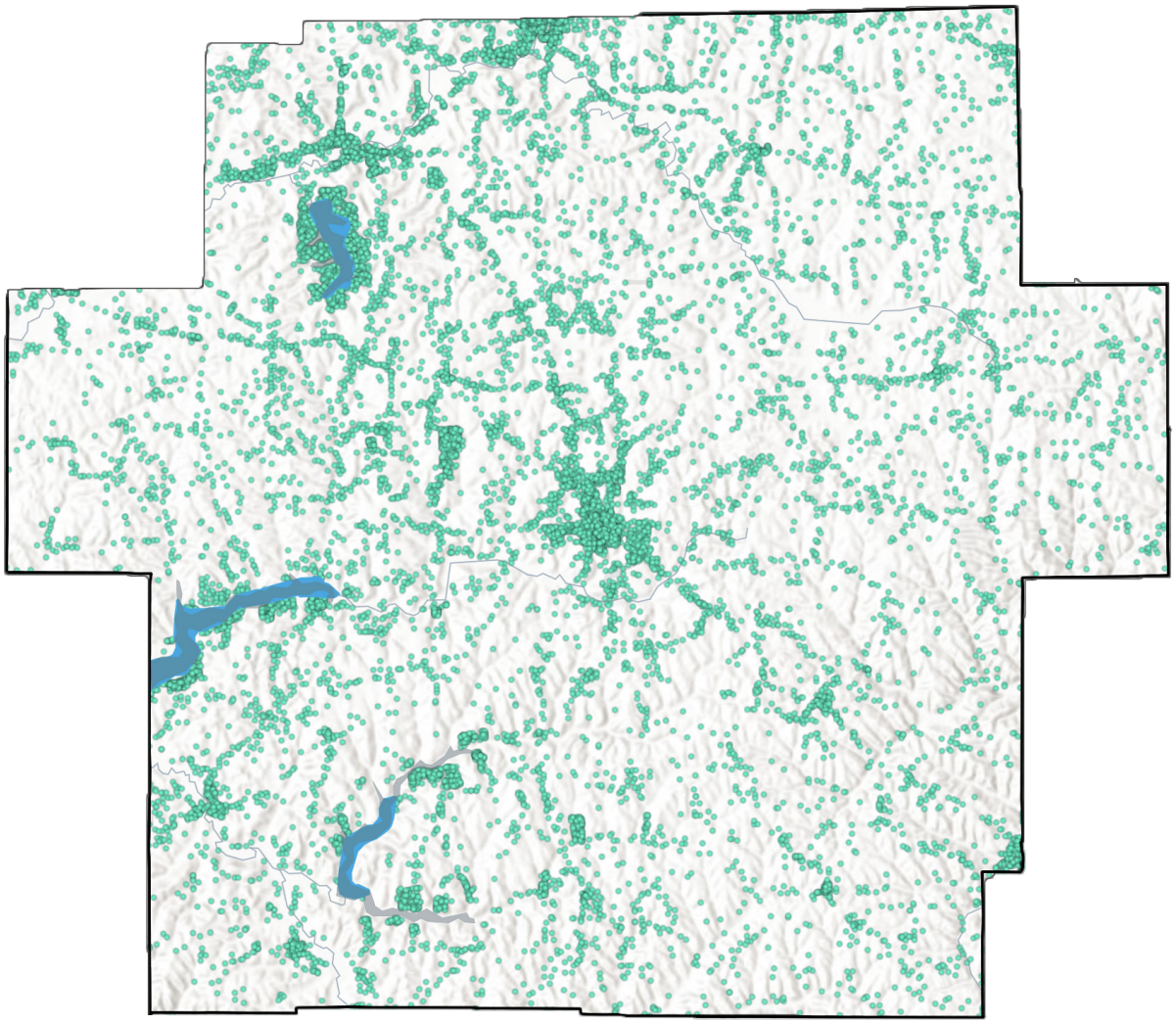
CARROLL COUNTY

The FCC Fabric identifies 15,255 broadband serviceable locations within the county, each represented by a point on this map. Of those locations, 5,296 have received funding through local, state and federal broadband programs.

These investments have delivered substantial progress in delivering high quality broadband across unserved portions of the county. However, after all currently awarded projects are completed, some locations will remain without a reliable pathway to service, requiring additional investment.



15,255
TOTAL LOCATIONS

5,296
AWARDED SINCE 2022

2,087
39% Now Served

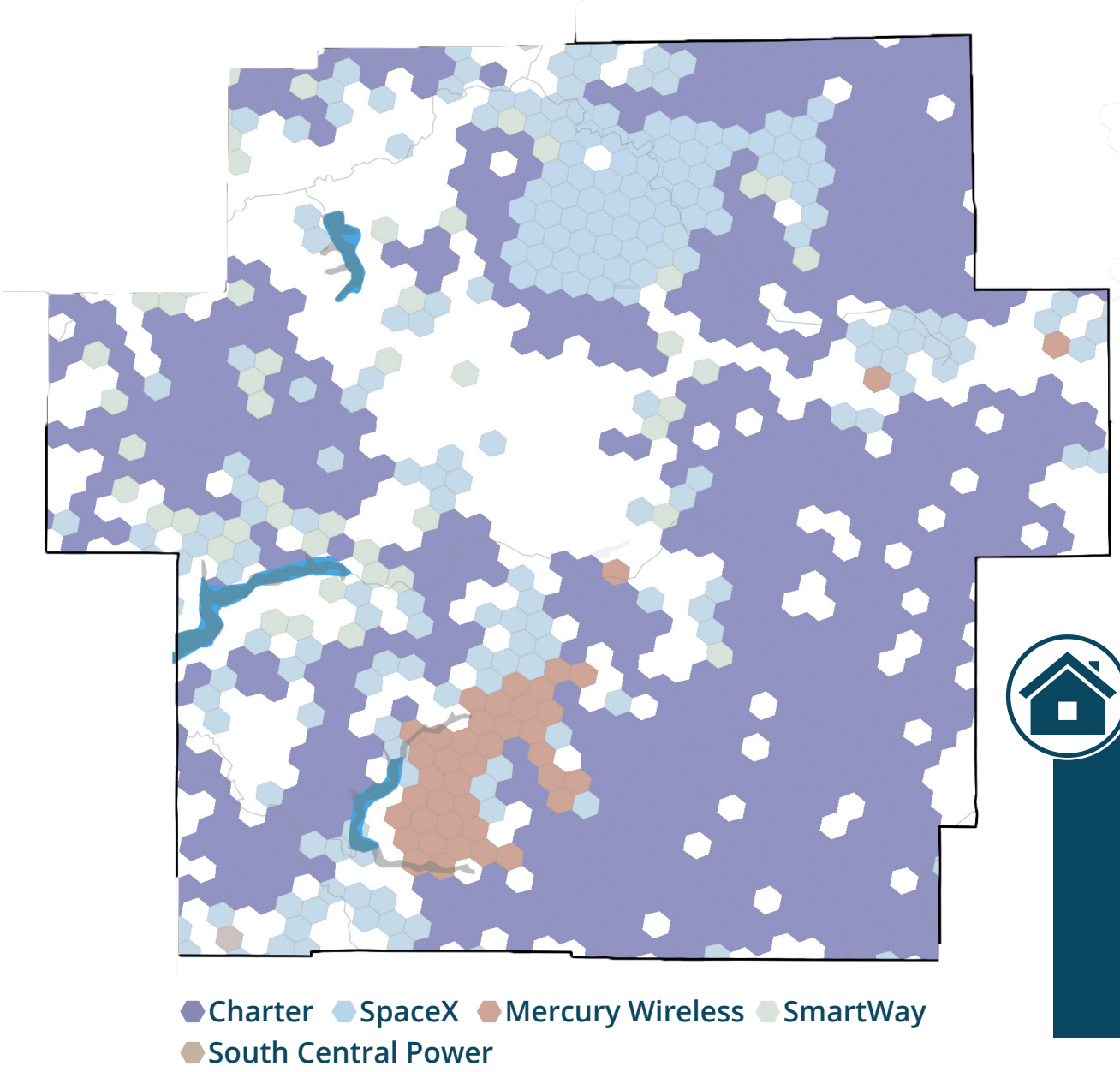
3,209
61% Yet to Build

1,310
LIKELY TO BE LEFT BEHIND

● location

Source: FCC Broadband Serviceable Location Fabric, Version 4 (released Dec. 31, 2023)

WHERE BROADBAND INVESTMENTS ARE OCCURRING

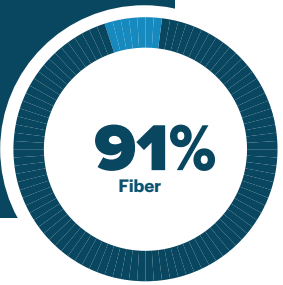


Federal, state and local broadband programs have directed funding to thousands of locations across the county. This map identifies award recipients by ISP, highlighting where broadband expansion projects are planned and where residents should see future service improvements.

While awards indicate where funding has been directed, project completion and network performance vary by provider and program. The map on the next page highlights where these investments are already translating into measurable improvements in broadband speeds.

5,296
AWARDED LOCATIONS

Fiber: 4,840
Fixed Wireless: 103
Satellite: 353

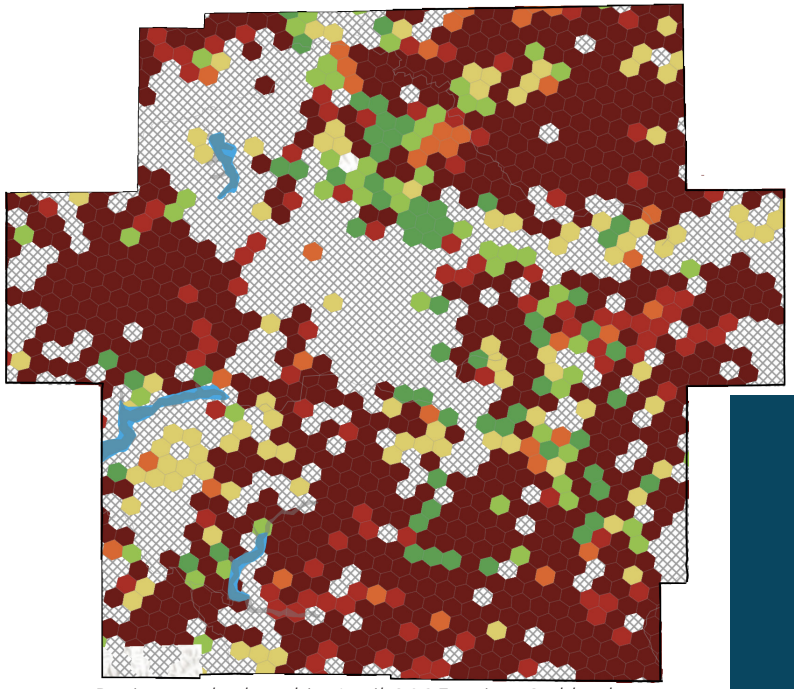


EXPANSION PROJECTS DELIVERING RESULTS

On-the-ground speed test results reflecting real-world service experience

As broadband projects move from planning to deployment, periodic analysis of Ookla Speedtest Intelligence® data tracks changes in broadband performance over time. Green areas indicate locations where speeds now exceed 100/20 Mbps, demonstrating measurable progress from network upgrades and expansion projects.

2024



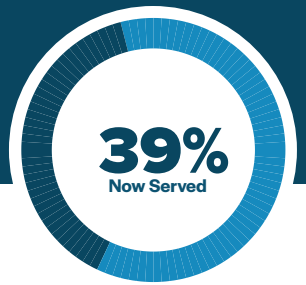
Ratings calculated in April 2025 using Ookla data collected between January 2024 and December 2024.

unserved
- < 10/1 Mbps
- >10/1 - 25/3 Mbps

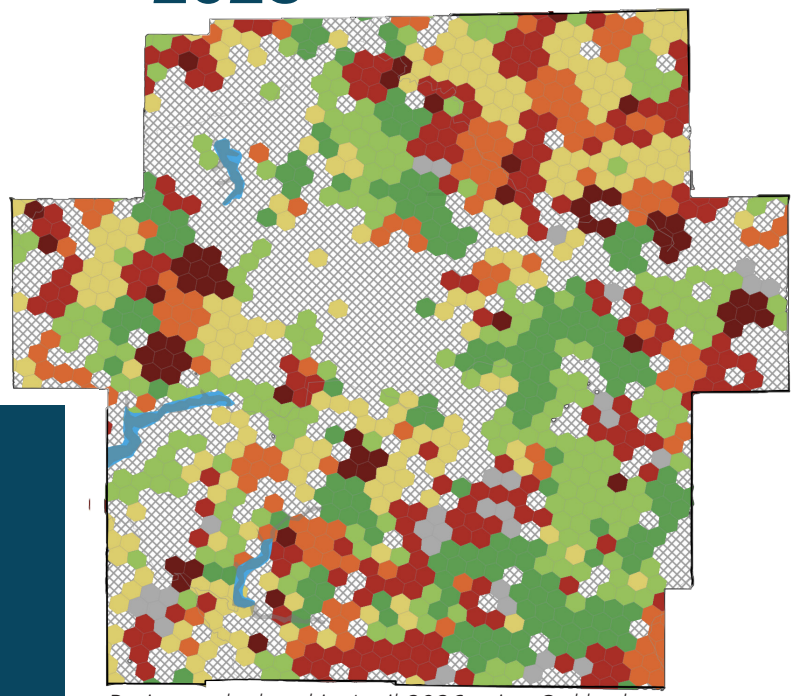
underserved*
- >25/3 - 50/10 Mbps
- >50/10 - 100/20 Mbps
- >100/20 - 200/50 Mbps
- >200/50 Mbps
- null / no data

2,087

LOCATIONS SERVED THROUGH COMPLETED PROJECTS



2025



Ratings calculated in April 2026 using Ookla data collected between January 2025 and December 2025.

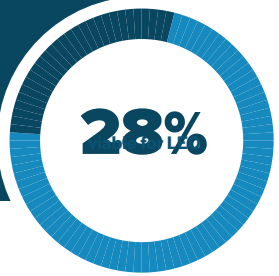
Some areas designated as Underserved at the 'yellow' level are due to cable modem systems with good download speeds but limited upload speeds. Thus these can also be considered "Marginally Served."

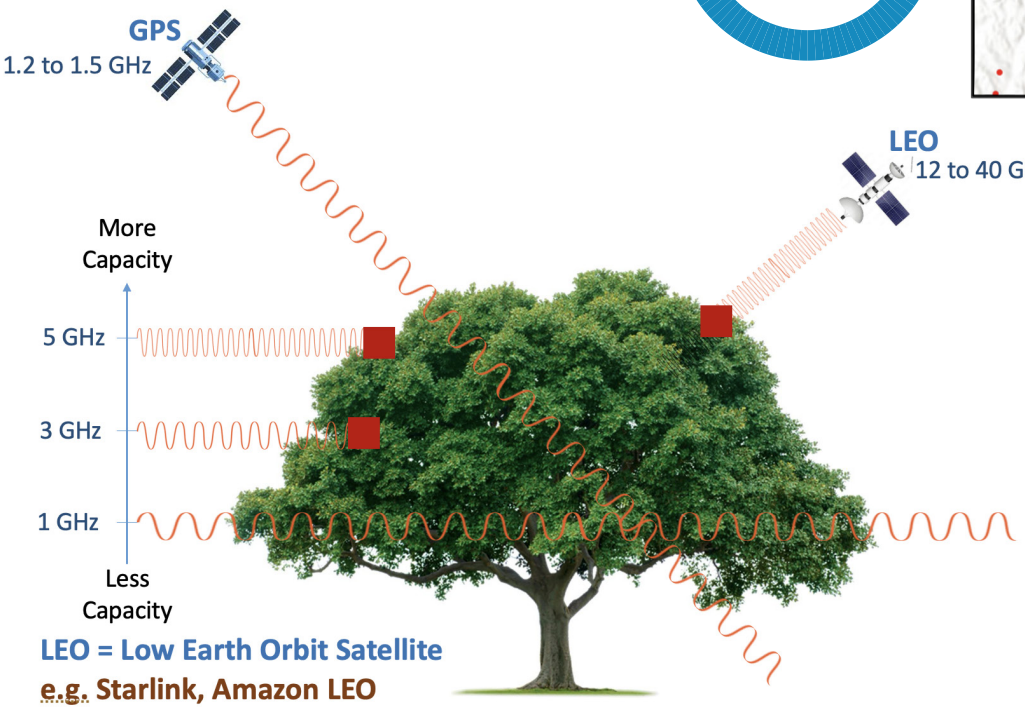
LEO SERVICE VIABILITY IS DEPENDENT ON CLEAR VIEW OF SKY

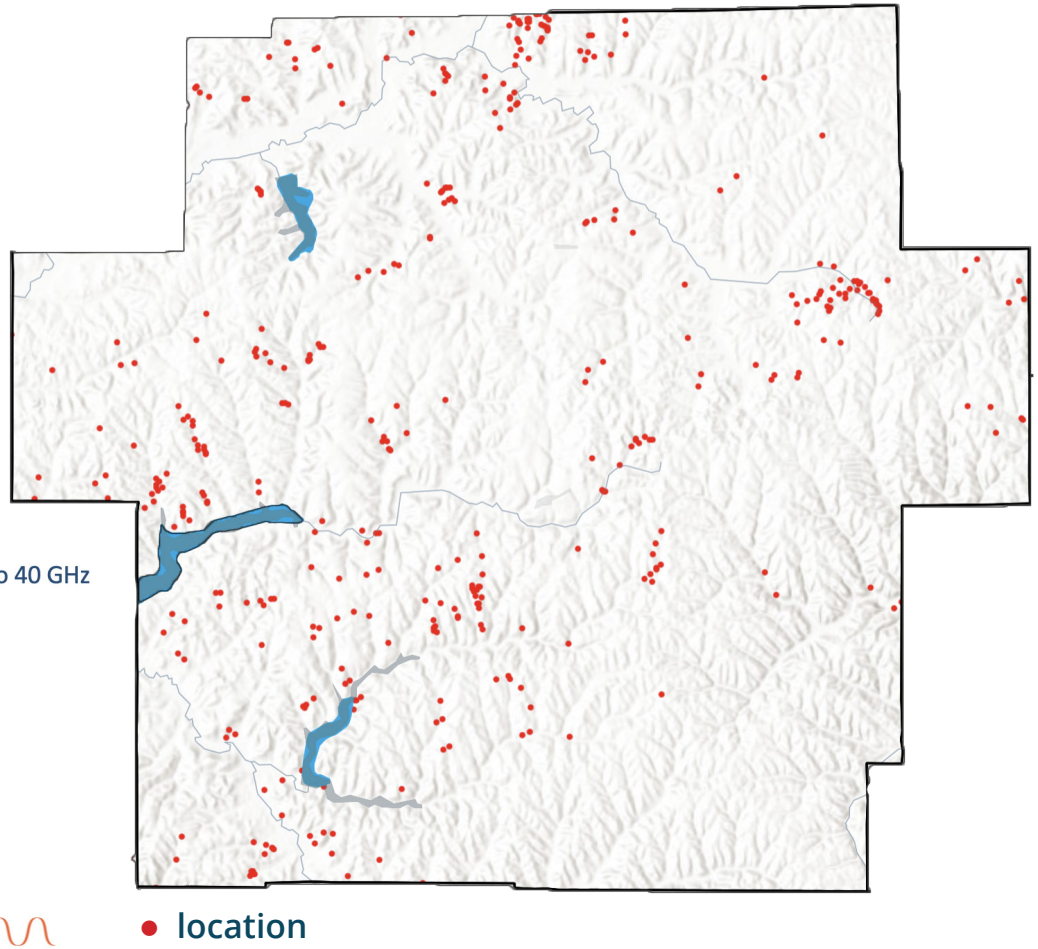
Many locations assigned to Low Earth Orbit (LEO) satellite service may remain at risk of being left behind because reliable service depends on an unobstructed view of the sky. Each red dot represents a BEAD-assigned LEO location. In many parts of the county, terrain and dense canopy create obstacles that can prevent reliable LEO connectivity. LEO systems operate at high frequencies (typically 12–40 GHz), where radio signals are readily attenuated by water contained in leaves and branches. Lower-frequency wireless systems and GPS are generally able to tolerate substantially more vegetation before signal degradation occurs.

353
LOCATIONS AWARDED TO LEO

98
clear view of sky







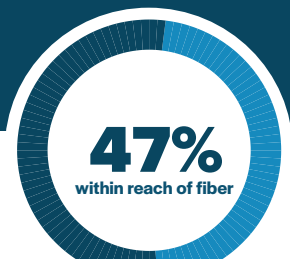
FOLIAGE AND TERRAIN CAN BLOCK RELIABLE LEO SERVICE

Each red dot represents a BEAD-awarded LEO location. The surrounding 140-foot radius illustrates the required clearance for LEO reception. The color shading around the dot indicates the estimated tree canopy density based on the National Land Cover Database (NLCD). Locations 0% canopy cover are most likely to receive stable LEO services as long as terrain does not eclipse the require view of the sky. Locations with any level of canopy cover may not be able to connect or will experience frequent service interruptions. For such obstructed locations, significant tree removal or the construction of a tower would be required to receive stable LEO services.

164 of 353 LEO-awarded locations are located within 1/3 mile radius of an area that has existing or awarded fiber service. These locations may have a pathway to reliable broadband through targeted expansion by providers already serving nearby customers.

353
LOCATIONS AWARDED TO LEO

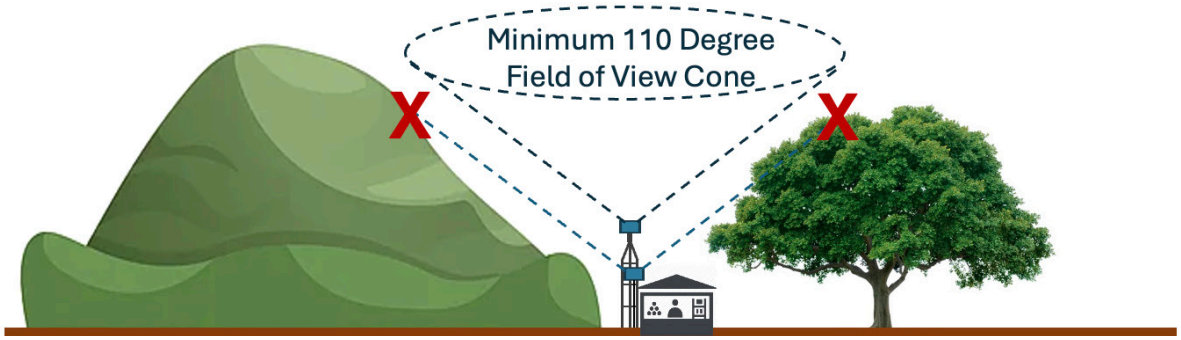
164
close to existing or awarded fiber





- >70%
- 50% - 70%
- 30% - 50%
- 1% - 30%
- < 1%
- location



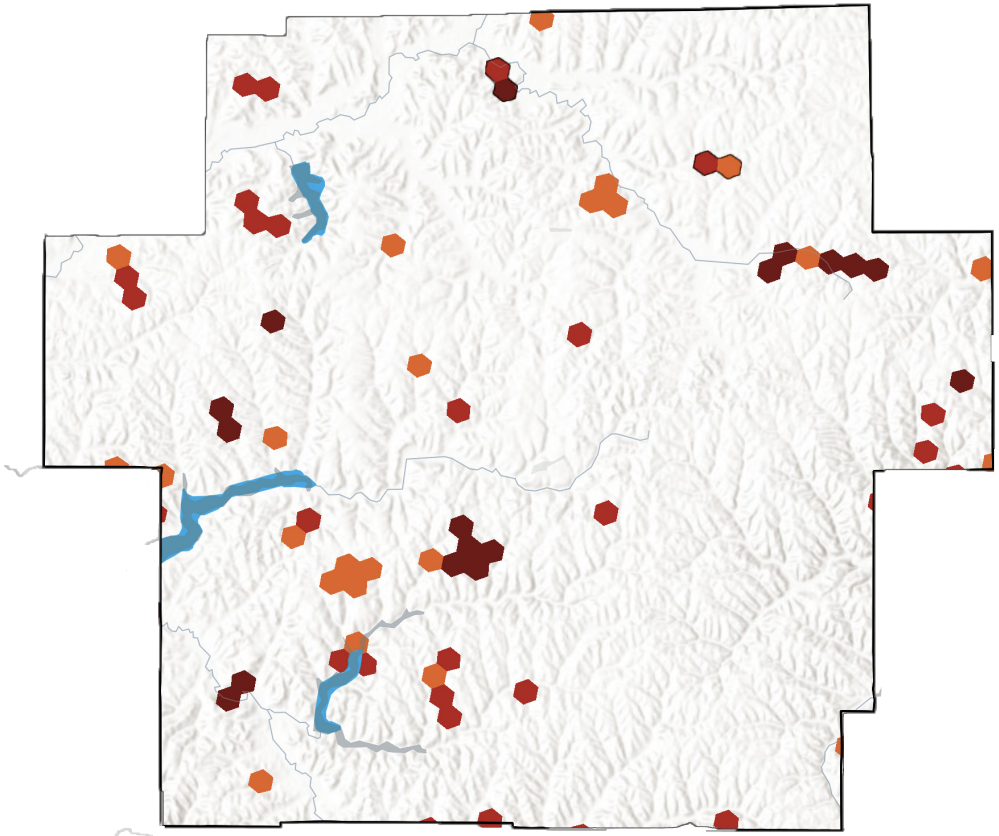


AREAS UNLIKELY TO RECEIVE RELIABLE BROADBAND

Despite substantial public and private investment, not every location has a clear pathway to reliable broadband service.

> ***Remaining gaps include locations where service claims by ISPs appear overstated as well as awarded locations where the selected technology will not provide ubiquitous service for all locations. These include, in particular, Low Earth Orbit satellite service which requires an unobstructed view of the sky often impacted by terrain and foliage.***

Without additional investment or alternative deployment strategies, some communities remain at risk of being left behind even after currently funded projects are complete.



● <10/1 Mbps ● >10/1 - 25/3 Mbps ● >25/3 - 50/10 Mbps

Each hex represents an area of about 182 acres where one or more locations remain unserved and unfunded.

Ratings calculated in April 2026 using Ookla data collected between January 2025 and December 2025.

1,310
LOCATIONS LEFT BEHIND

123.1
fiber miles in gap areas

10.6
locations per mile

$12.3M
estimated construction cost

** Based on total road miles within identified gap areas and an assumed construction cost of $100,000 per mile. Actual deployment costs will vary based on proximity to existing infrastructure and engineering requirements.*