

Findings from Fiber Broadband Association's Second Annual Fiber Deployment Cost Study



BEFOREWE BEGIN

- Attendees are in <u>listen-only mode</u>
- Use the <u>Control Panel</u> to access additional tools
- Please submit questions using the
 Questions panel
- The <u>On-Demand Replay</u> of today's webinar will be available within 24 hrs on the FBA website under Events / Webinars







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Manager, Strategy & Analytics













Fiber Deployment Cost Annual Report

- 1 Fiber Deployment Trends
- 2 Study Methodology
- 3 Study Findings

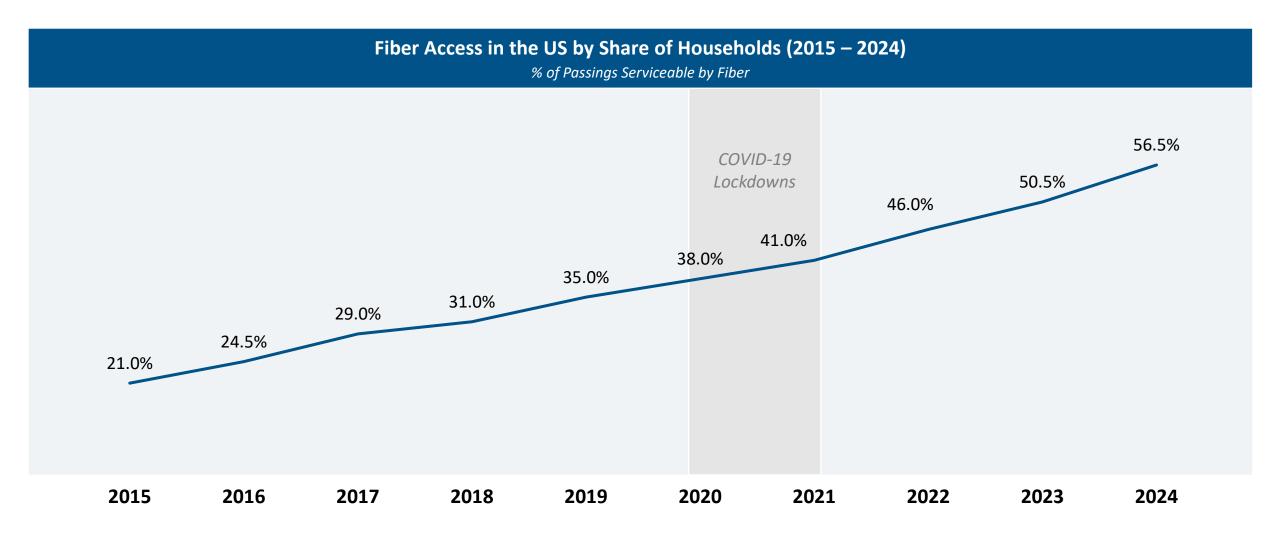




Fiber Deployment Trends | Overall Serviceability



About 57% of all US households (76.5M) now have access to fiber, according to the latest FBA/RVA study



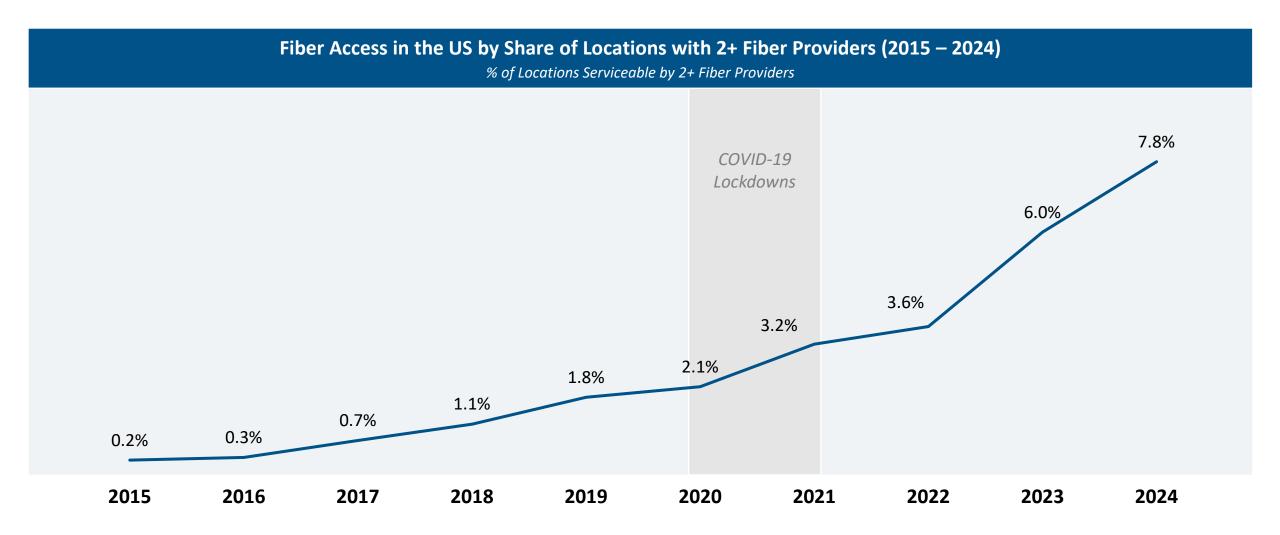




Fiber Deployment Trends | Access to Multiple Providers



Competition in the fiber market has greatly increased in recent years, ~8% of locations now have 2+ fiber options



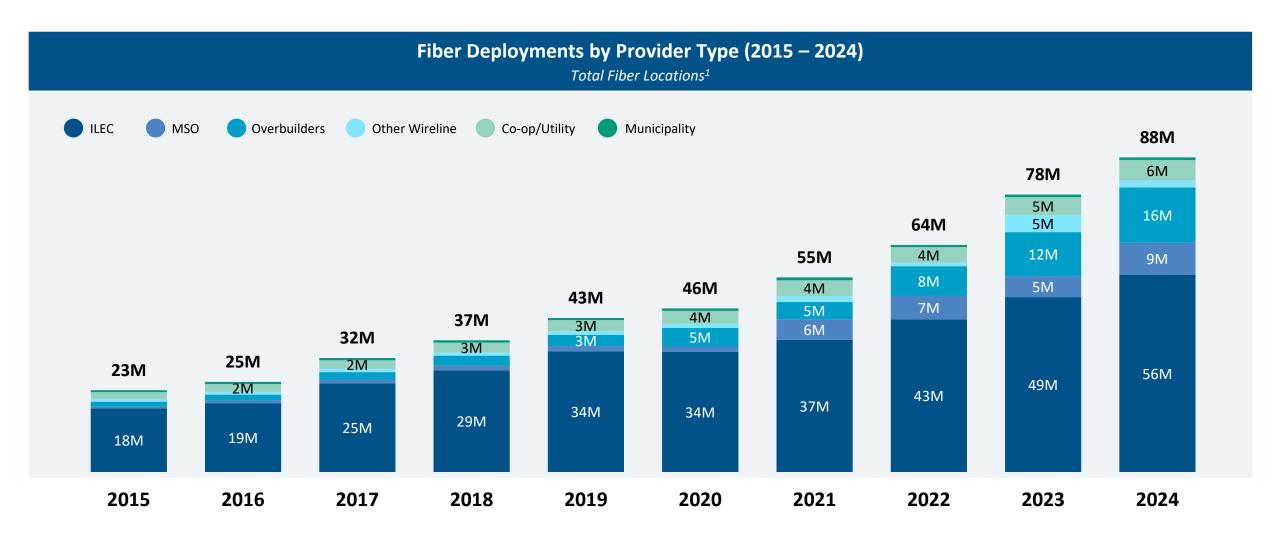


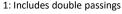


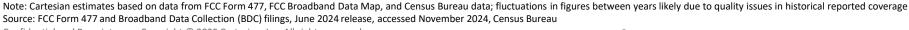
Fiber Deployment Trends | Access by Provider Type



Growth in fiber passings is increasingly driven by various types of providers







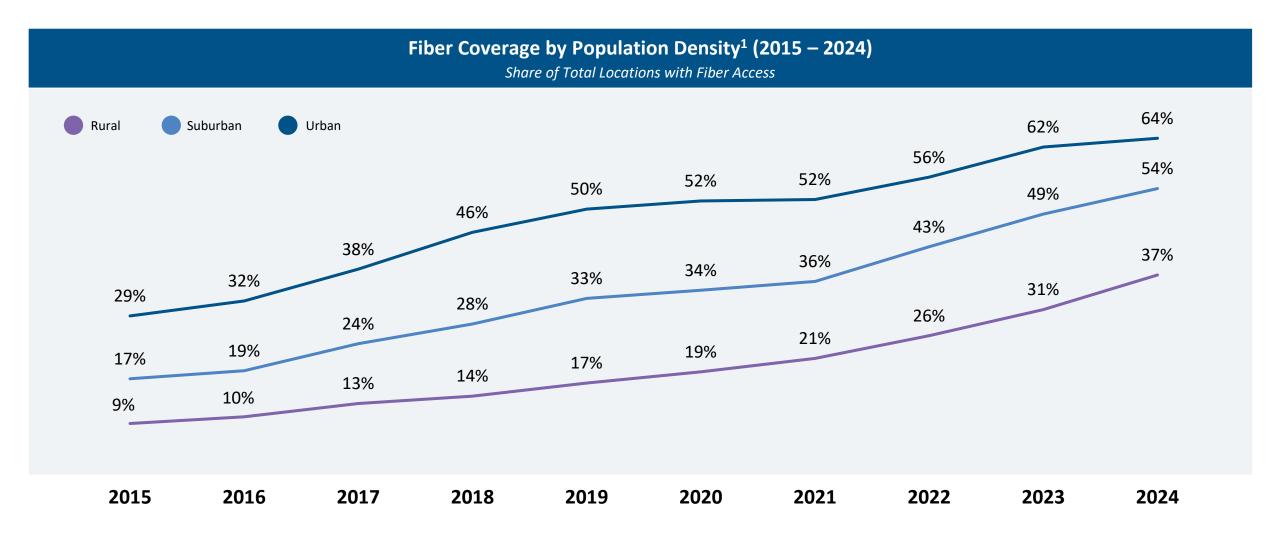




Fiber Deployment Trends | Access by Population Density



Rural communities saw the most YoY growth in fiber access, with 37% of rural locations now serviceable by fiber







Annual Fiber Deployment Cost Study | Overview

The annual study aims to understand fiber cost benchmarks and analyze how costs change over time

We surveyed industry participants to understand the costs they face to deploy fiber in their communities, covering the following topics:



Network Deployment Costs

Building the access network

- Labor cost per foot
- Materials cost per foot
- + Engineering, permitting, and make-ready costs



Customer Premises Drop Costs

Connecting customer premises to the access network

- Labor cost per drop
- Materials cost per drop



Cost Trends & Expectations

Deployment cost changes over time

- Experienced change in costs over the past year
- Expected change in costs in the coming year
- Drivers for change in cost





Annual Fiber Deployment Cost Study | Research Sources

We collected data through interviews and surveys from across the fiber deployment ecosystem

Type of Respondents

Survey respondents spanned the fiber deployment ecosystem:



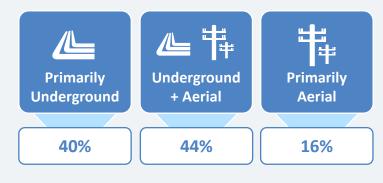






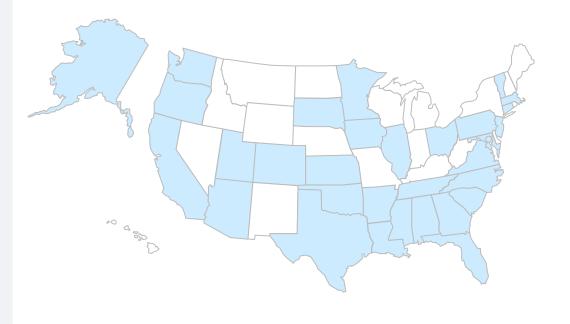


They also provided input for their primary deployment type:



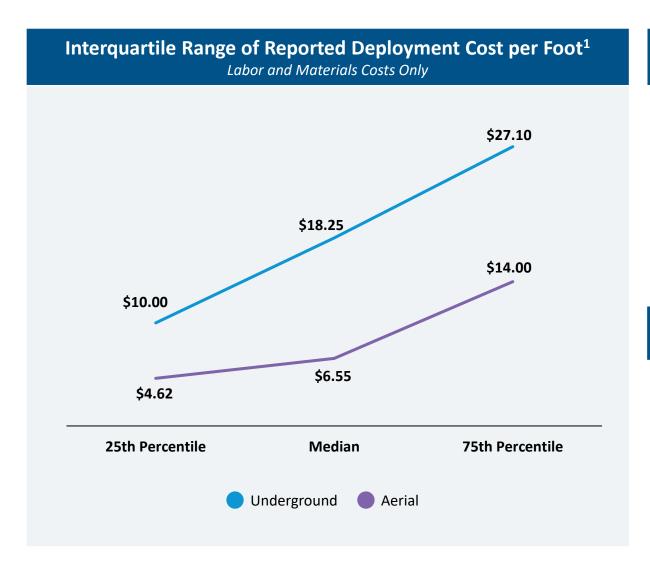
States Represented

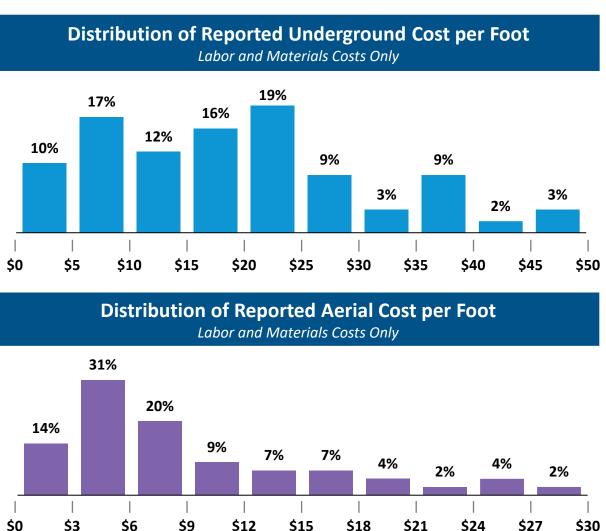
Deployment projects in 32 states are represented:





Respondents reported a median cost of \$18.25 for underground deployments, \$6.55 for aerial deployments



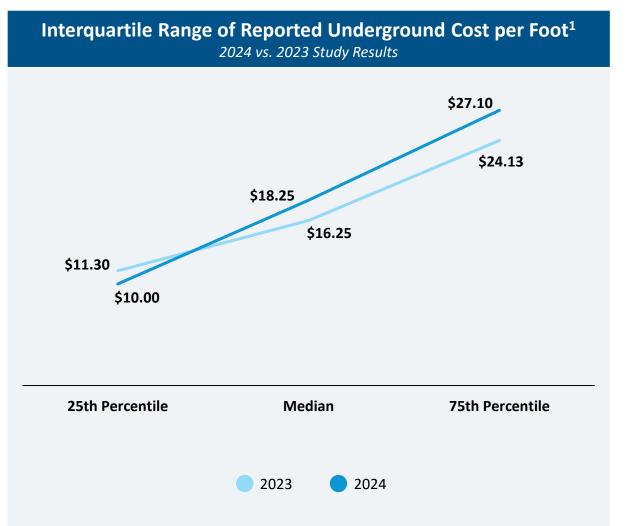


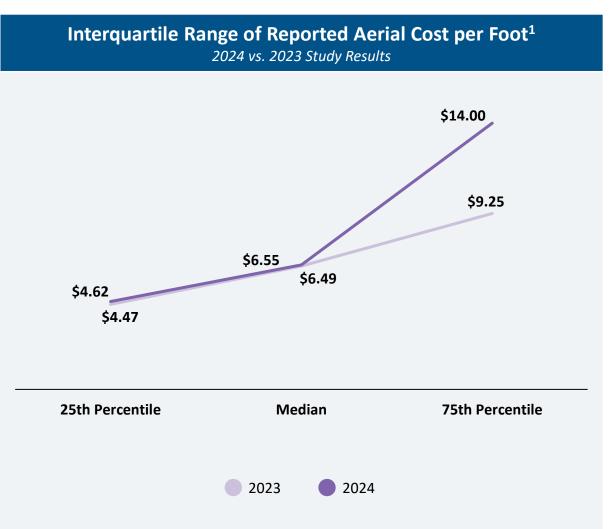


Network Deployment Costs | YoY Cost Ranges

1 = 2 = 3 STUDY FINDINGS

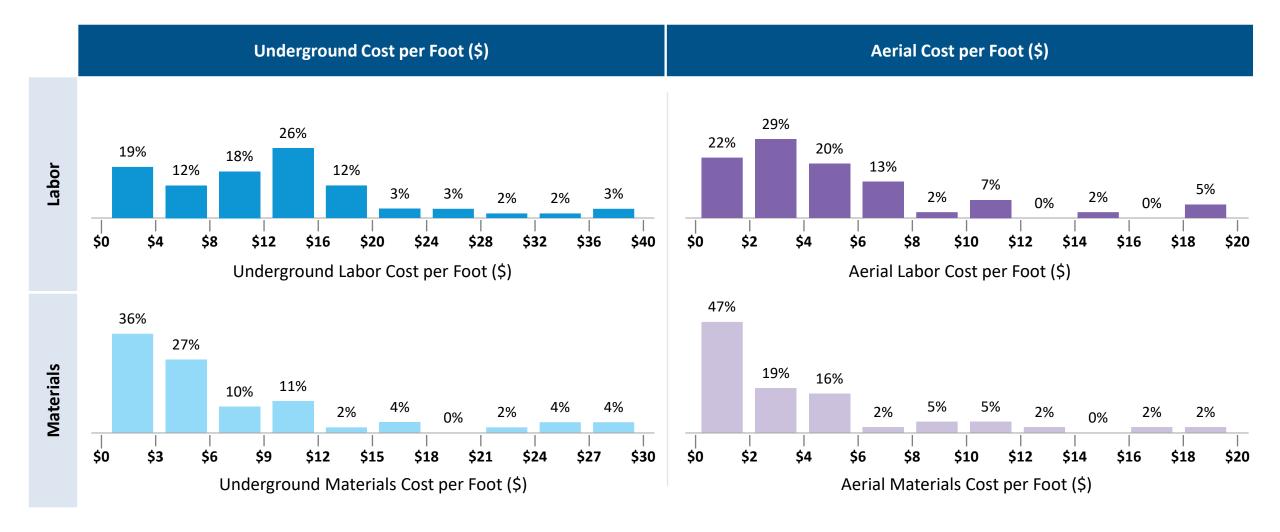
Median deployment costs increased vs. 2023 results, particularly for underground deployments (+12% YoY)





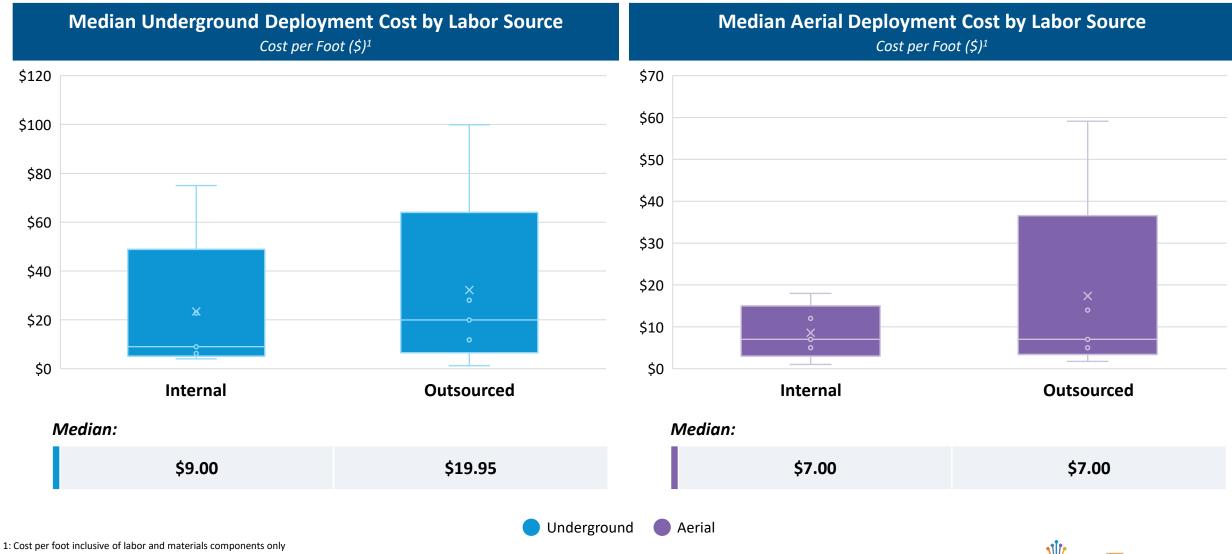


Labor accounts for 75% of underground deployment costs and 63% of aerial deployment costs





Median outsourced labor costs are twice as expensive as internal for underground deployments



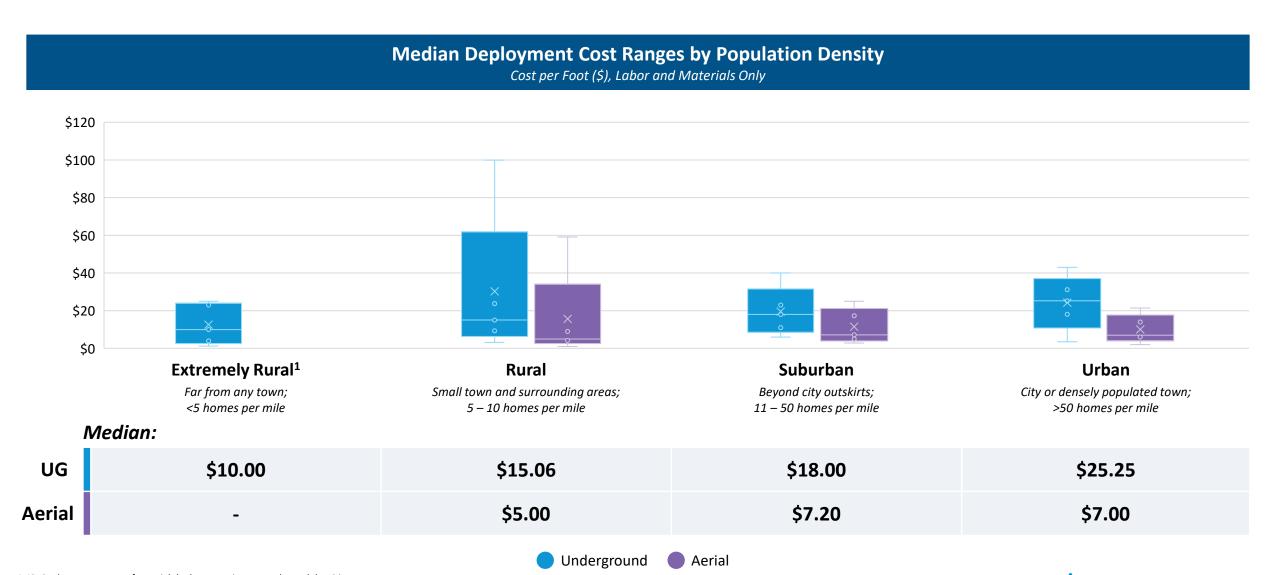




Network Deployment Costs | **Population Density**



Costs generally increase alongside density; however, rural deployments have the most variability in costs

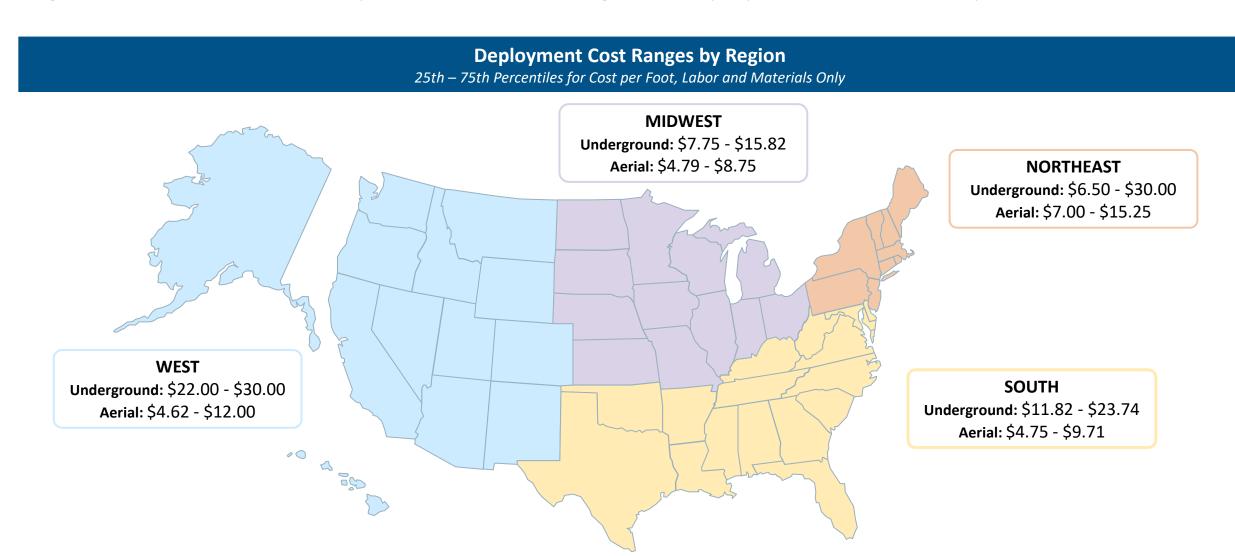






Network Deployment Costs | Region

Regional cost variation is more pronounced for underground deployments, as terrain impacts construction

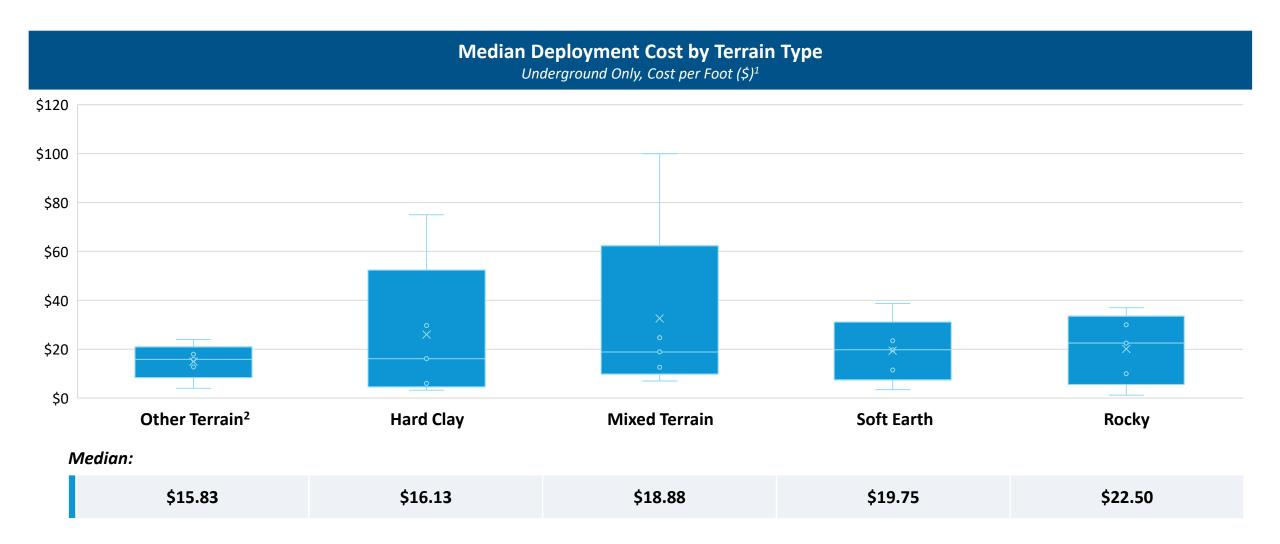




Underground Network Deployment Costs | Terrain



Rocky terrains have the highest reported median cost, while mixed terrains have a longtail of higher costs



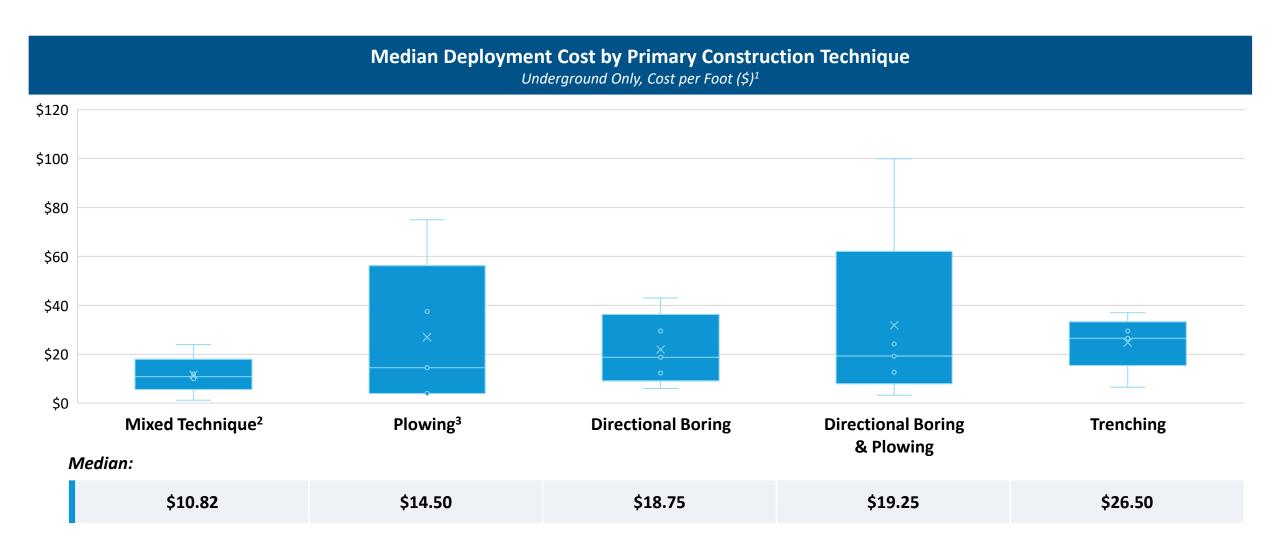




Underground Network Deployment Costs | Technique

1 = 2 = 3 STUDY FINDINGS

While trenching reports the highest median cost, plowing and directional boring/plowing skew more expensive



Note: Insufficient response count to display microtrenching construction technique



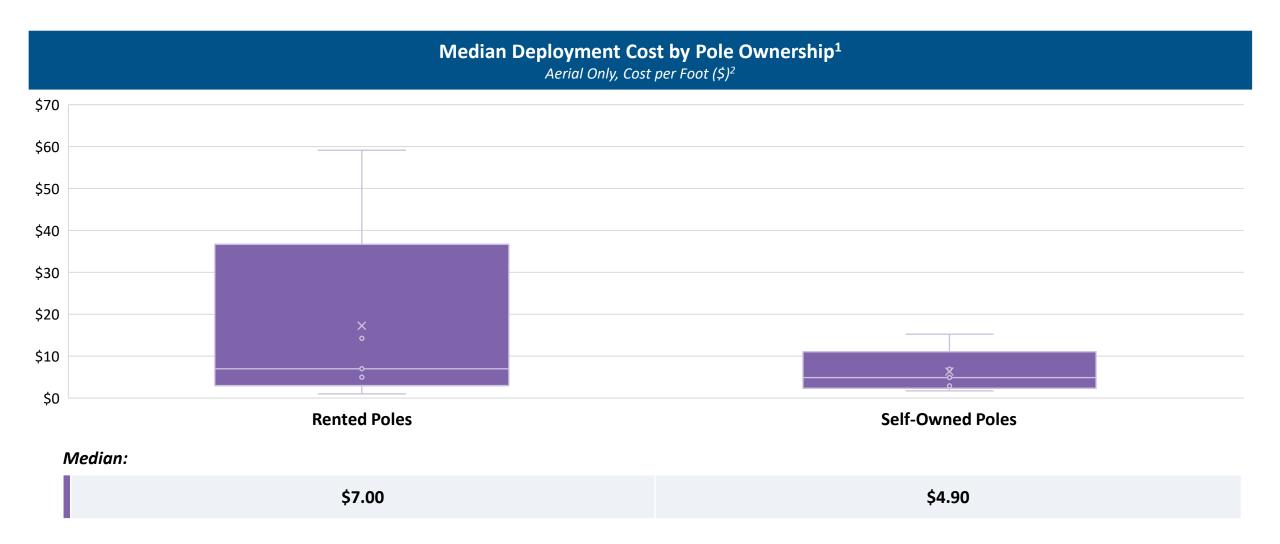


^{1:} Cost per foot inclusive of labor and materials components only 2: Mixed technique is any combination excluding directional boring + plowing 3: Limited response count for builds using plowing as the primary technique Source: Fiber Broadband Association, Cartesian

Aerial Network Deployment Costs | Pole Ownership

1 = 2 = 3 STUDY FINDINGS

The median cost of rented poles is ~40% more than self-owned in aerial deployments



^{1:} Limited response count for deployments requiring new/replacement poles



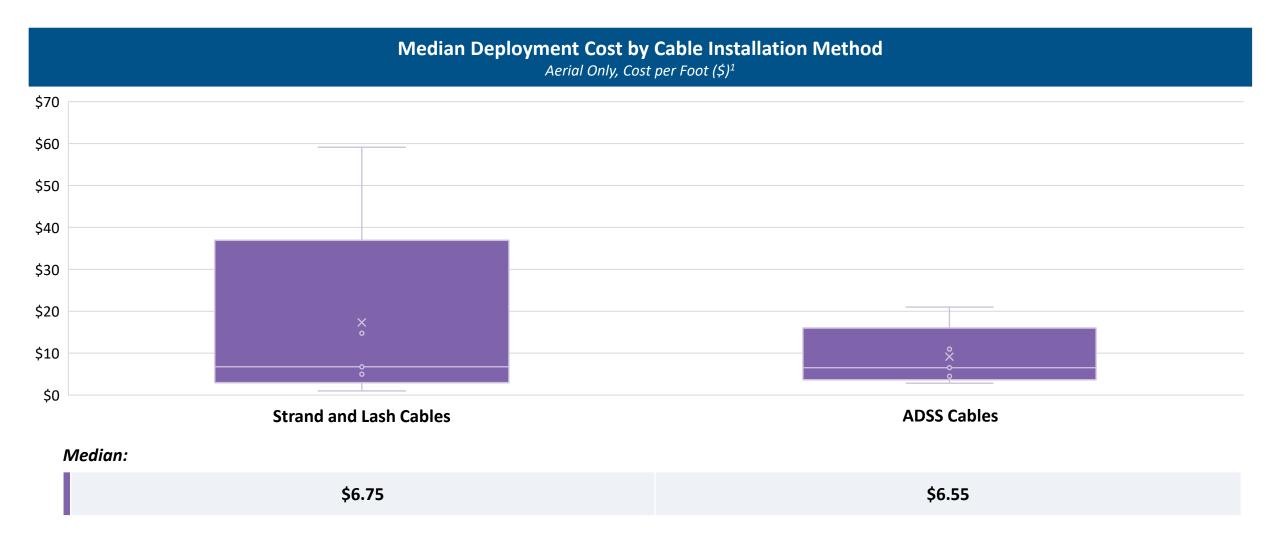


^{2:} Cost per foot inclusive of labor and materials components only

Aerial Network Deployment Costs | Install Type

1 = 2 = 3 STUDY FINDINGS

Aerial install methods have similar median costs; however, Strand and Lash has a wider range of reported costs

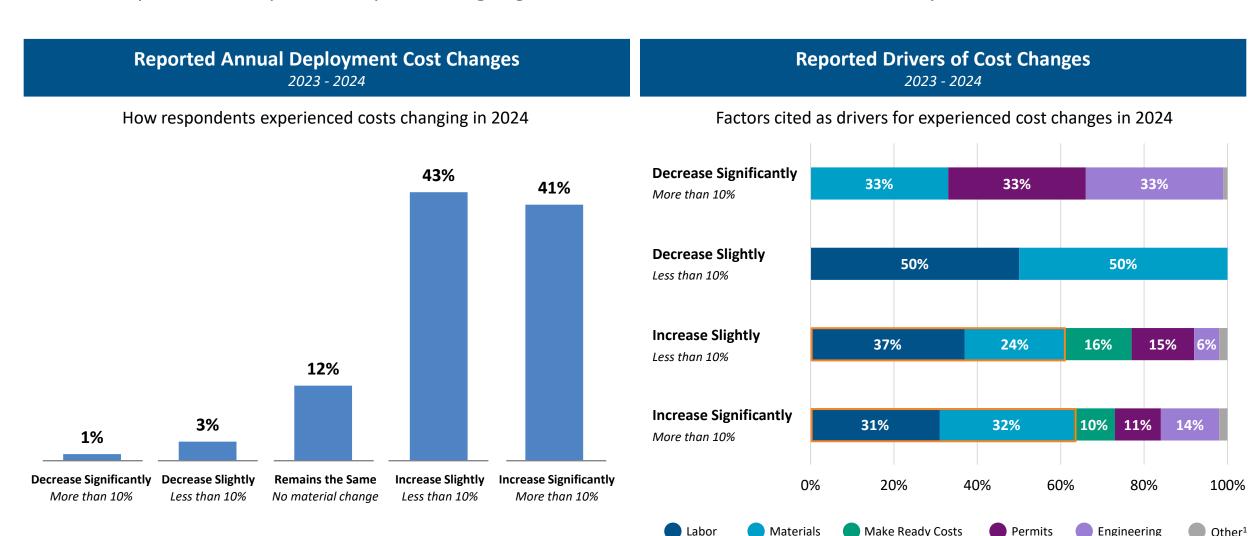




Annual Cost Trends | Reported Cost Changes in 2024



84% of respondents reported experiencing higher costs in 2024 than 2023, driven by labor and materials costs





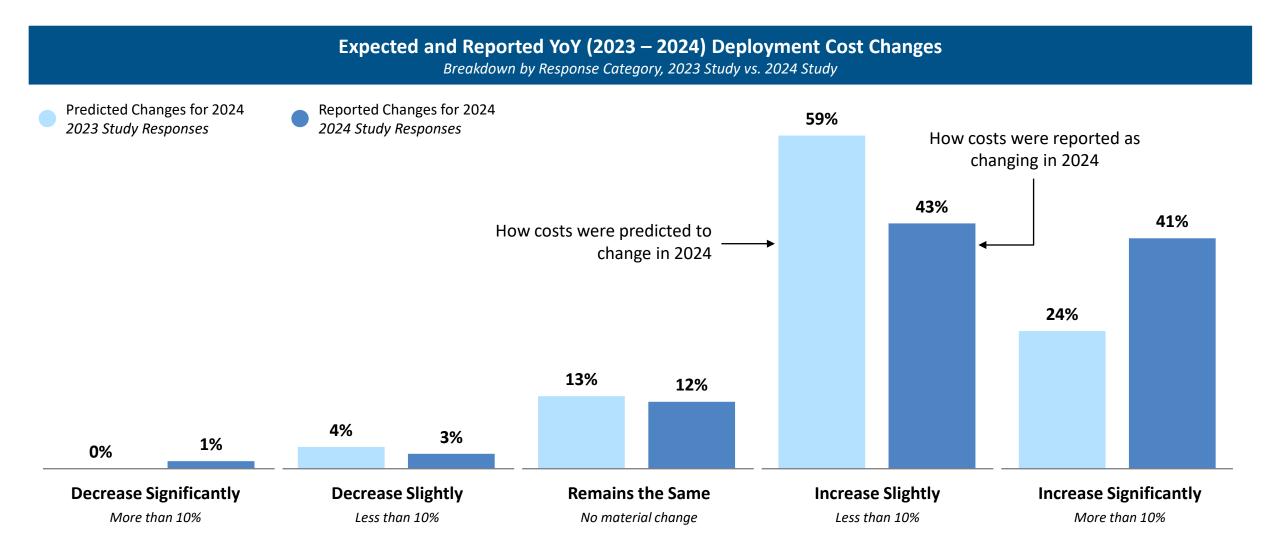




Annual Cost Trends | 2024 Predicted vs. Experienced Changes



Self-reported significant (>10%) cost increases exceeded predictions for 2024







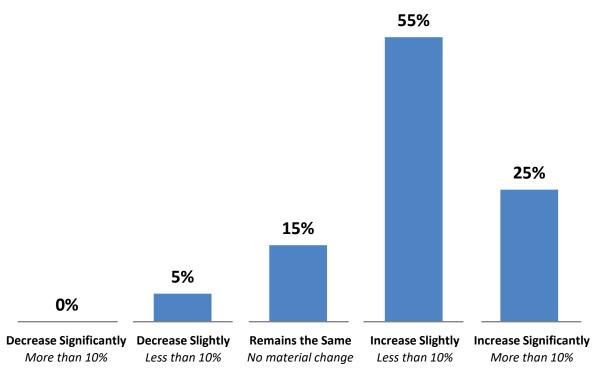
Annual Cost Trends | Expected Cost Changes for 2025



Respondents expect deployment cost increases to continue next year, driven primarily by labor and materials

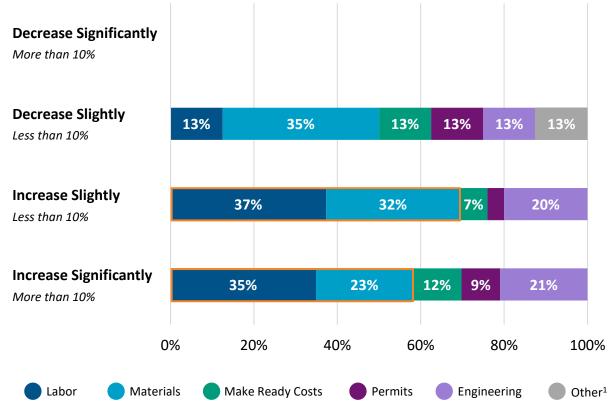
Expected Annual Deployment Cost Changes *By 2025*

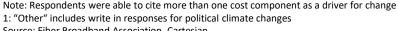
How respondents expect deployment costs to change in the coming year



Expected Drivers of Future Cost Changes *By 2025*

Factors that respondents predict will drive expected cost changes





Source: Fiber Broadband Association, Cartesian





Additional Information

How to access the full results and get plugged into the 2025 study



Looking for the full report?



The 2024 report is now available on the Fiber Broadband Association's website under "Resources"



Have a question or want to participate in the research?

Contact us:



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Thank you to all who helped make this year's study a success!









QUESTIONS









TUESDAY, FEBRUARY 11, 2025
Grand Hyatt San Antonio Riverwalk





FIBER CONNECT 2025

June 1-4, 2025

Gaylord Opryland Resort & Convention Center

Nashville, TN

Save the Date!





2025 Regional Fiber Connect Locations

San Antonio, Texas - February 11 | *Economic Impacts*

Philadelphia, Pennsylvania - March 25 | Digital Equity

Anchorage, Alaska - July 17 | *Fiber and Fixed Wireless*

Toronto, Canada - August 19 | Fibre Economics

Spokane, Washington - September 16 | Urban & Suburban Digital Divide

Scottsdale, Arizona - October 16 | Tribal Broadband

Kansas City, Missouri - November 11 | Demand Drivers

Contact Lucy Green (<u>Igreen@fiberbroadband.org</u>) for Exhibit and Sponsorship Opportunities







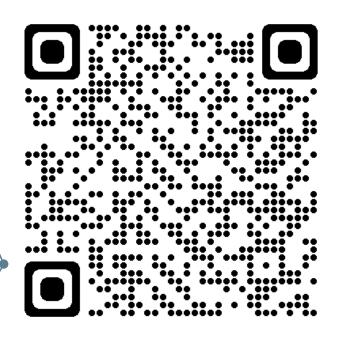
Volunteer Now!

We need skilled fiber optic technicians to design, deploy and troubleshoot fiber optic networks. The FBA OpTIC Path Program is our answer to this critical need — but requires volunteers like you to instruct future fiber technicians.

Volunteer to teach!



Upcoming FBA Webinars



Visit the FBA Website to discover & register for upcoming webinars & events https://fiberbroadband.org/events/



Featuring **Gary Bolton - FBA President & CEO**Wednesdays at 10 AM Eastern





