

# BEAD Program: A Framework to Allocate Funding for Broadband Availability

## State Broadband Report: Delaware

January 2024





## 1 Eligible Locations

How many unserved/underserved locations are eligible for BEAD funding?

3%

11K LOCATIONS

OF DELAWARE LOCATIONS LACK HIGH-SPEED BROADBAND IN JUN 2023

VS. 9% STATE/TERRITORY AVERAGE

### UNSERVED LOCATIONS, JUN. 2024



0.9K LOCATIONS

Are estimated to lack broadband access at 25/3 Mbps

### UNDERSERVED LOCATIONS, JUN. 2024



6.7K LOCATIONS

Are estimated to lack broadband access at 100/20 Mbps

These locations are primarily in rural areas and are eligible for BEAD funding to deploy broadband service.

## 2 Total Funding

How much capital funding is the State/Territory estimated to have?

\$108M

IN BEAD FUNDING HAS BEEN ALLOCATED TO DELAWARE

VS. \$743M STATE/TERRITORY AVERAGE

### ESTIMATED BEAD FUNDING:

BEAD Funds allocated by NTIA

\$108M

Estimated Provider Match

\$23M

Estimated Total Capital

\$131M

The provider match is estimated using a high-level service provider business case. See national summary deck for full details.

## 3 Deployment

How many locations can be covered with fiber and other technologies?

\$29M-34M

OF BEAD FUNDS IS REQUIRED TO BUILD HIGH-SPEED BROADBAND TO ALL ELIGIBLE LOCATIONS

### DEPLOYMENT SCENARIOS:



Baseline Fiber



Maximum Fiber

100% LOCATIONS REACHED

93% FIBER LOCATIONS

100% LOCATIONS REACHED

100% FIBER LOCATIONS





\$52M TOTAL CAPITAL COST

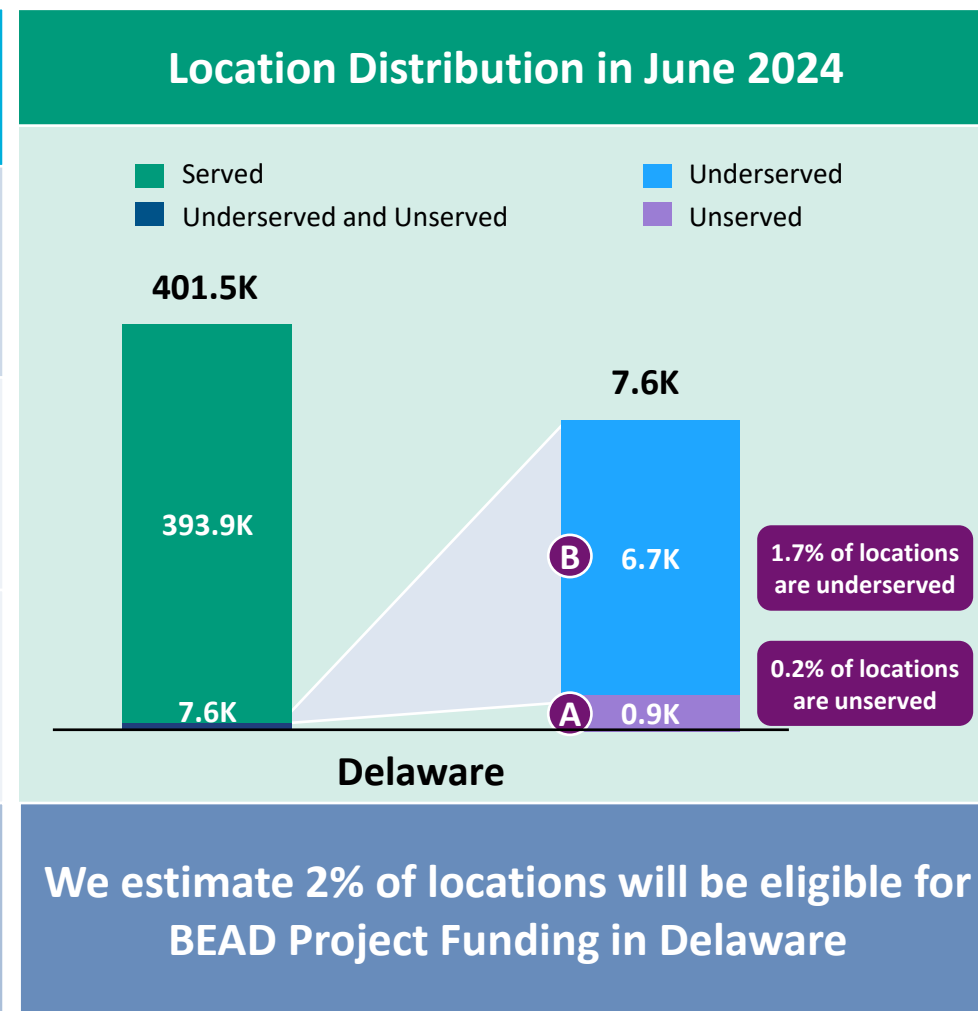
\$57M TOTAL CAPITAL COST

\$79M REMAINING BUDGET

\$73M REMAINING BUDGET

## Delaware | Estimated Eligible Locations for BEAD Projects

 <b>June 2023 FCC Broadband Locations</b>	<b>Unserved</b> <i>(less than 25Mbps/3Mbps)</i>	<b>Underserved</b> <i>(less than 100Mbps/20Mbps)</i>
 Subsidy Program Funded Locations <sup>1</sup>	1.5K	9.2K
 Incremental Build <sup>2</sup> (13% annual build, for 12 months)	0.5K	2.5K
 Jun. 2024 Estimated Eligible Locations	0.9K <b>A</b>	6.7K <b>B</b>



1. Locations with “commitments” to receive support from federal subsidy programs

2. Given the uncertainty around the magnitude of locations moving from unserved to underserved, we have not made incremental builds adjustments to underserved locations

BEAD eligible locations does not account for state-specific eligibility rules set forth in Initial Proposals

Source: Cartesian, FCC National Broadband Map (June 2023 data, released in November 2023)

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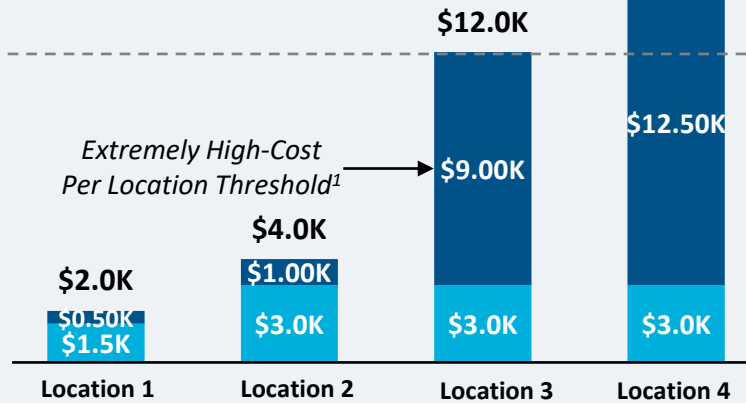
## Delaware | BEAD Funding &amp; Estimated Provider Match

## Provider Match Examples

## Total Deployment Cost per Location

- BEAD Funds Per Location
- Estimated Provider Match

High-Cost  
Areas  
\$15.5K

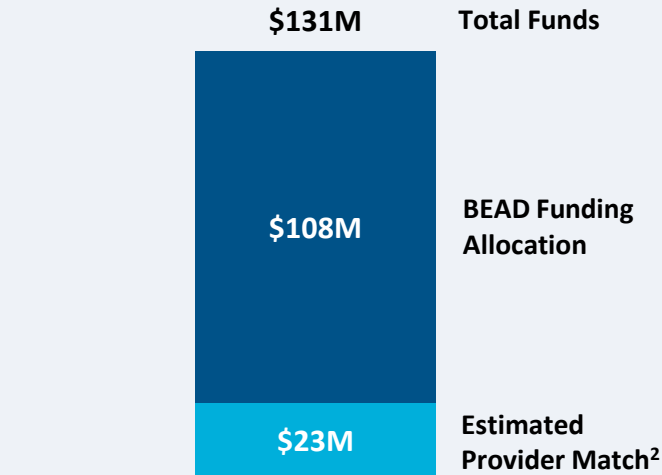


## Provider Match %

75%	75%	25%	19%
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To be conservative, we assume provider match amounts have a maximum of 75% and a minimum of 25%, except in high-cost areas

## Total Capital Available - Delaware



\$131M in total capital is estimated to be available to serve unserved/underserved Delaware locations (combining BEAD funding and estimated provider match)

## Provider Match - Delaware

Total Estimated  
Provider Match: **\$23M**

Total Estimated  
Eligible Locations: **7.6K**

Average  
Provider Match: **\$2,995**  
PER LOCATION

We estimate the average provider match will be \$2,995 – provider matches will be 75% where cost to deploy is less than \$4K

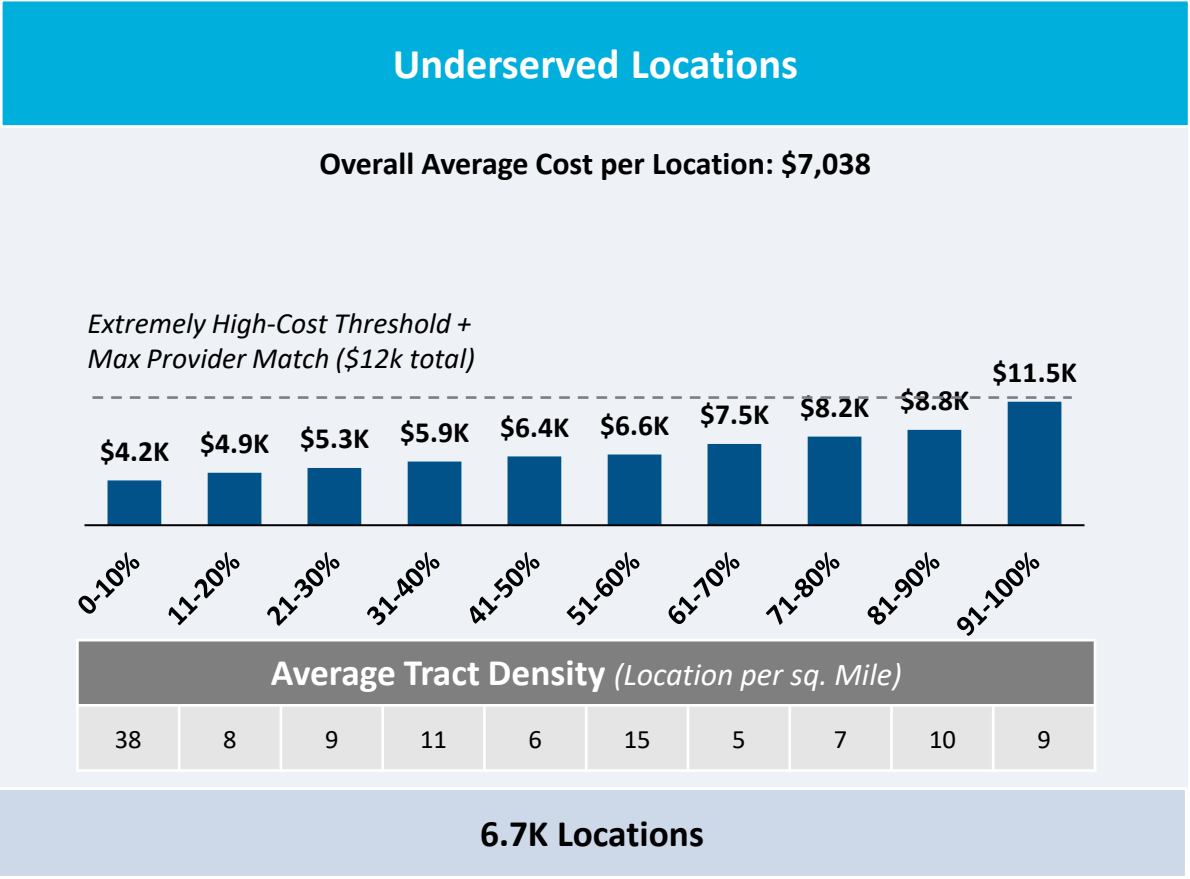
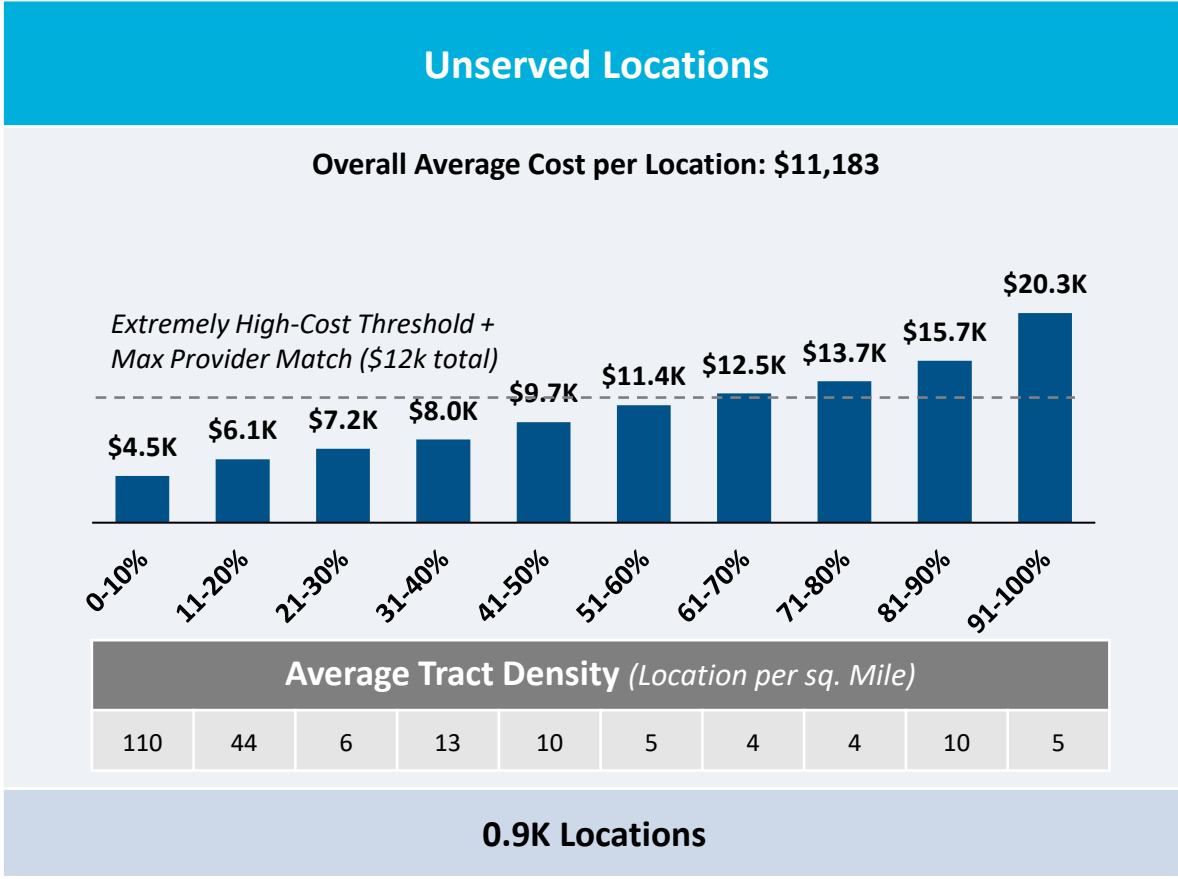
1. The model uses a \$9k threshold, however, States/Territories will individually need to determine their appropriate extremely high-cost threshold  
2. In reality, providers will determine the viable level of match funding for each project using a business case model. They will be willing to contribute a greater match in some locations and less in others. Locations which are hardest to serve may need to be fully funded by BEAD with no match. Competitive bidding should drive provider matches towards this level.

Source: Cartesian, FCC National Broadband Map (June 2023 data, released in November 2023), Benton, NTIA

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# Delaware | Cost to Deploy Fiber by Decile

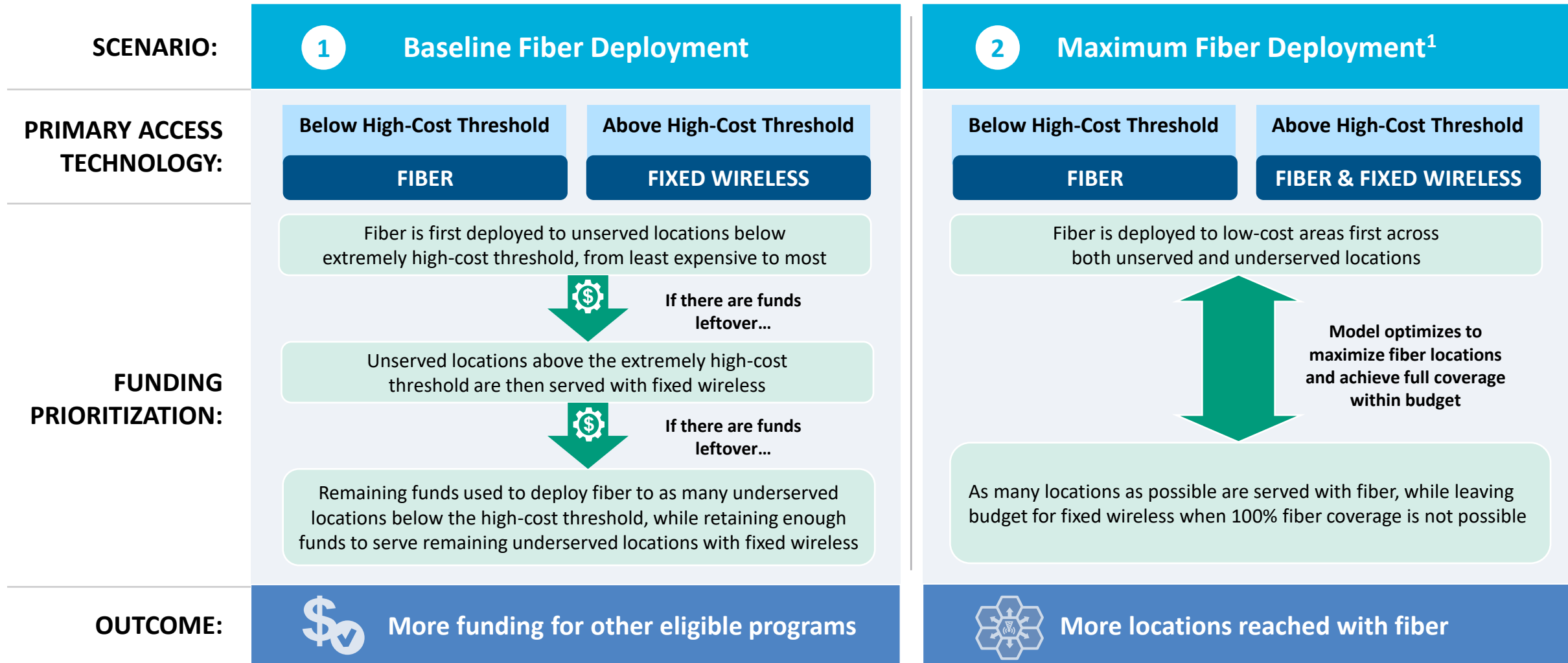
## CAPEX Fiber Deployment Cost per Location Segmented by Cost Deciles<sup>1</sup>



**Over 95% of locations are estimated to fall below the High-Cost Threshold + Provider Match**

1. Chart values are average cost per location for each decile bucket  
 Source: Cartesian, FCC National Broadband Map (June 2023 data, released in November 2023)  
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# Delaware | Fiber Preferencing Scenarios



1. Scenario 2 deploys fiber beyond the extremely high-cost threshold  
 Source: Cartesian  
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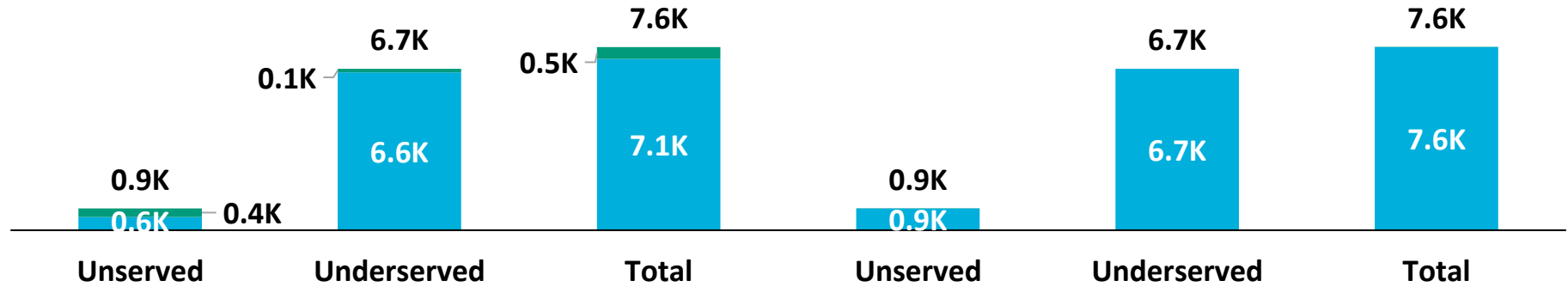
## Delaware | Scenario Analysis Results

SCENARIO:

1 Baseline Fiber Deployment

2 Maximum Fiber Deployment

■ Fixed Wireless  
■ Fiber

Capex Required per Locations<sup>1</sup>

\$6,779

\$6,775

\$6,776

\$11,077

\$7,038

\$7,517

BEAD Funds Available to State

\$108M

\$108M



Estimated Provider Match

\$23M

\$23M



Total Available Capital

\$131M

\$131M



Capex Required to Build

\$52M

+\$6M

\$57M



Remaining Funds

\$79M

\$73M

% of Locations Reached

100%

100%

% of Locations Reached with Fiber

93%

+7%

100%

1. Funding to deploy fiber before the maximum \$3k provider match per location

# Delaware | Conclusion



## Funding Summary

Delaware is expected to receive

**\$108M in BEAD funding**



**\$23M in estimated provider matching**

We estimate the funding is sufficient to reach all of Delaware's 7.6k eligible locations with high-speed broadband



## Key Findings

Delaware appears well positioned to reach all eligible premises and have funding for other BEAD eligible programs

### A Baseline Fiber Deployment...



### Maximizing Fiber...

- Leaves \$79M additional funds for affordability programs
- Reaches 93% of locations with fiber
- Requires 7% to be reached with other tech.

- Leaves \$73M additional funds for affordability programs
- Reaches 100% of locations with fiber
- Requires 0% to be reached with other tech.

**States/Territories will set their own extremely high-cost threshold and may choose a threshold or funding paradigm different from these two scenarios**



# Delaware | ACA Connects Members

Member Name
Atlantic Broadband
Mediacom, LLC



[www.acaconnects.org](http://www.acaconnects.org)

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