

BEAD Program: A Framework to Allocate Funding for Broadband Availability

State Broadband Report: Georgia

January 2024





1 Eligible Locations

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

9%
355K LOCATIONS
OF GEORGIA LOCATIONS LACK HIGH-SPEED BROADBAND IN JUN 2023
VS. 9% STATE/TERRITORY AVERAGE

UNSERVED LOCATIONS, JUN. 2024



150.4K
LOCATIONS

Are estimated to lack broadband access at **25/3 Mbps**

UNDERSERVED LOCATIONS, JUN. 2024



78.6K
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?

\$1.3B
IN BEAD FUNDING HAS BEEN ALLOCATED TO GEORGIA
VS. \$743M STATE/TERRITORY AVERAGE

ESTIMATED BEAD FUNDING:

BEAD Funds allocated by NTIA

\$1.3B

Estimated Provider Match

\$676M

Estimated Total Capital

\$2.0B

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?

\$864M-\$1.1B
OF BEAD FUNDS IS REQUIRED TO BUILD HIGH-SPEED BROADBAND TO ALL ELIGIBLE LOCATIONS

DEPLOYMENT SCENARIOS:



Baseline Fiber



Maximum Fiber

100%
LOCATIONS REACHED

89%
FIBER LOCATIONS

100%
LOCATIONS REACHED

100%
FIBER LOCATIONS

\$1.5B
TOTAL CAPITAL COST

\$1.8B
TOTAL CAPITAL COST

\$461M
REMAINING BUDGET

\$171M
REMAINING BUDGET

1 Estimate Eligible Locations

Georgia | Estimated Eligible Locations for BEAD Projects

June 2023 FCC Broadband Locations	Unserved <i>(less than 25Mbps/3Mbps)</i>	Underserved <i>(less than 100Mbps/20Mbps)</i>
Subsidy Program Funded Locations ¹	84.5K	19.1K
Incremental Build ² <i>(13% annual build, for 12 months)</i>	22.5K	--
Jun. 2024 Estimated Eligible Locations	150.4K (A)	78.6K (B)



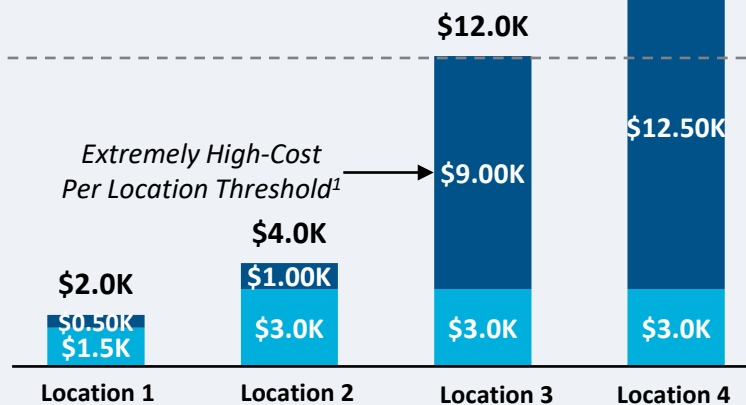
1. Locations with "commitments" to receive support from federal subsidy programs
 2. Given the uncertainty around the magnitude of locations moving from unserved to underserved, we have not made incremental builds adjustments to underserved locations
 BEAD eligible locations does not account for state-specific eligibility rules set forth in Initial Proposals
 Source: Cartesian, FCC National Broadband Map (June 2023 data, released in November 2023)
 Confidential and Proprietary — Copyright © 2024 Cartesian, Inc. All rights reserved.

Provider Match Examples

Total Deployment Cost per Location

- BEAD Funds Per Location
- Estimated Provider Match

High-Cost
Areas
\$15.5K

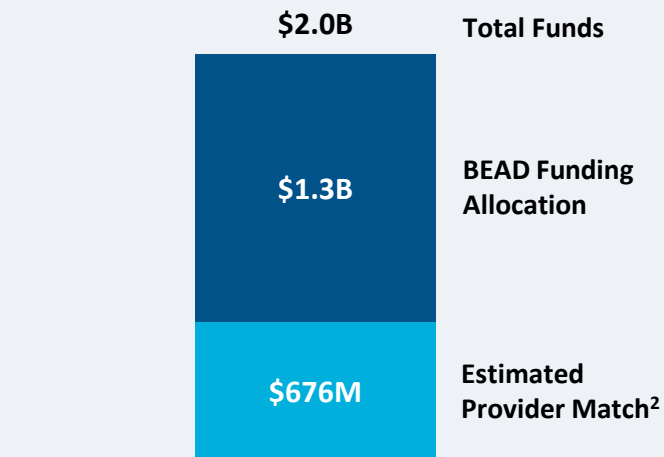


Provider Match %

75%	75%	25%	19%
-----	-----	-----	-----

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 - Georgia



\$2.0B in total capital is estimated to be available to serve unserved/underserved Georgia locations (combining BEAD funding and estimated provider match)

Provider Match - Georgia

Total Estimated
Provider Match: **\$676M**

Total Estimated
Eligible Locations: **229.0K**

Average
Provider Match: **\$2,952**
PER LOCATION

We estimate the average provider match will be \$2,952 – 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

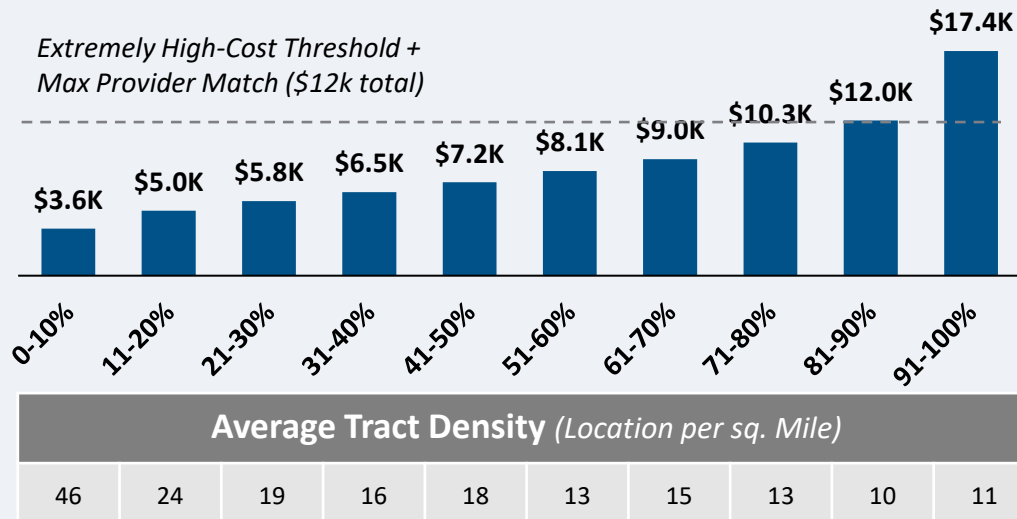
Confidential and Proprietary — Copyright © 2024 Cartesian, Inc. All rights reserved.

Georgia | Cost to Deploy Fiber by Decile

CAPEX Fiber Deployment Cost per Location Segmented by Cost Deciles¹

Unserved Locations

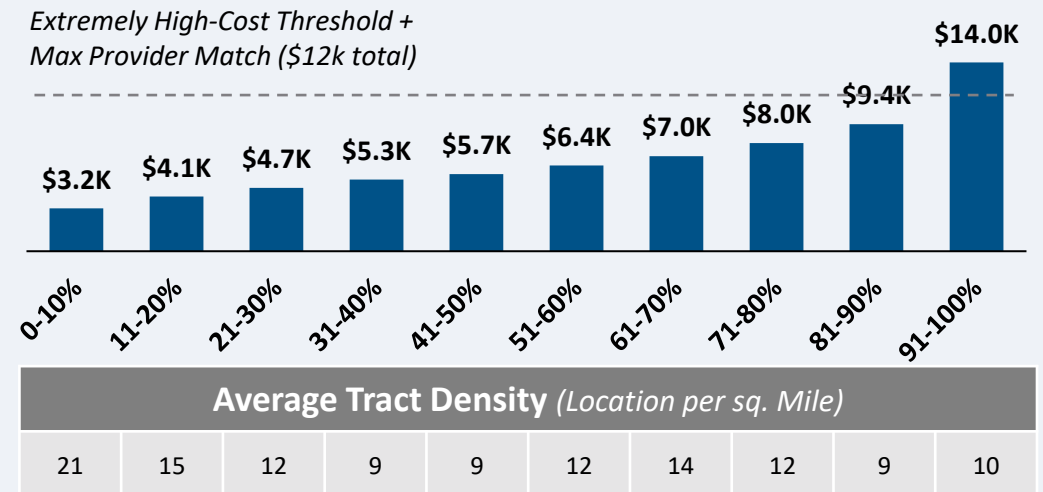
Overall Average Cost per Location: \$8,506



150.4K Locations

Underserved Locations

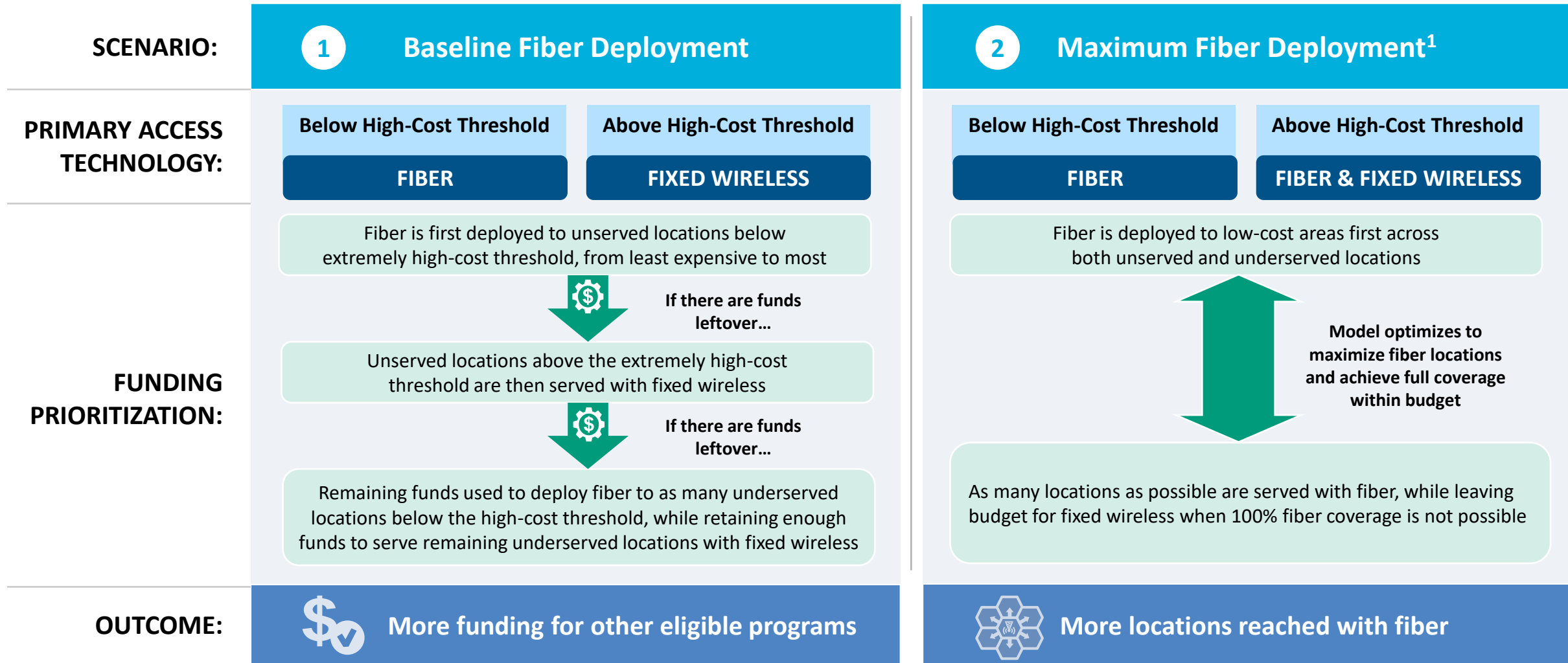
Overall Average Cost per Location: \$6,789



78.6K Locations

Over 80% of locations are estimated to fall below the High-Cost Threshold + Provider Match

Georgia | Fiber Preferencing Scenarios



1. Scenario 2 deploys fiber beyond the extremely high-cost threshold
 Source: Cartesian
 Confidential and Proprietary — Copyright © 2024 Cartesian, Inc. All rights reserved.

3 Develop Deployment Scenarios

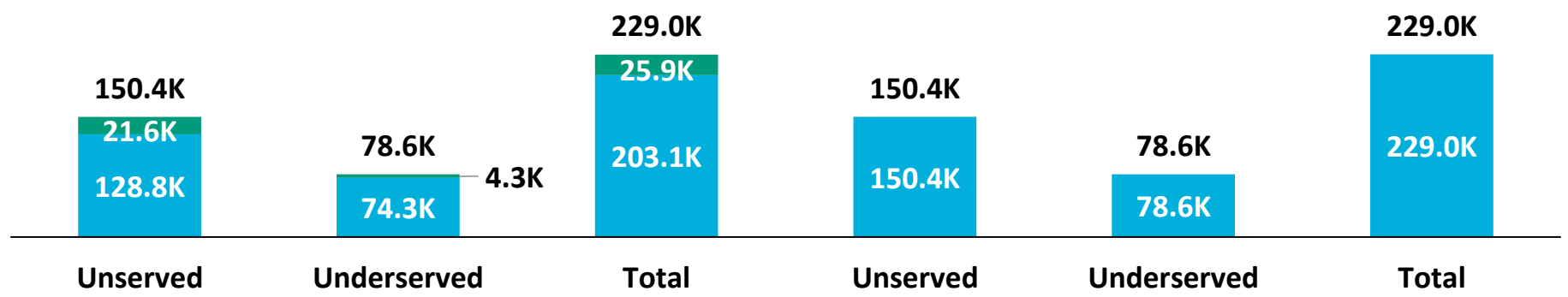
Georgia | Scenario Analysis Results

SCENARIO:

1 Baseline Fiber Deployment

2 Maximum Fiber Deployment

■ Fixed Wireless
■ Fiber



	Scenario 1	Scenario 2
Capex Required per Locations ¹	\$6,903	\$6,648
BEAD Funds Available to State	\$1.3B	\$1.3B
+ Estimated Provider Match	\$676M	\$676M
= Total Available Capital	\$2.0B	\$2.0B
- Capex Required to Build	\$1.5B	\$1.8B
= Remaining Funds	\$461M	\$171M
% of Locations Reached	100%	100%
% of Locations Reached with Fiber	89%	100%

1. Funding to deploy fiber before the maximum \$3k provider match per location
 Source: Cartesian, FCC National Broadband Map (June 2023 data, released in November 2023), Benton, NTIA
 Confidential and Proprietary — Copyright © 2024 Cartesian, Inc. All rights reserved.



Funding Summary

Georgia is expected to receive

\$1.3B in BEAD funding



\$676M in estimated provider matching

We estimate the funding is sufficient to reach all of Georgia's 229.0k eligible locations with high-speed broadband



Key Findings

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

A Baseline Fiber Deployment...



Maximizing Fiber...

- Leaves \$461M additional funds for affordability programs
- Reaches 89% of locations with fiber
- Requires 11% to be reached with other tech.

- Leaves \$171M 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

Georgia | ACA Connects Members

Member Name	
ATC Broadband, LLC	Pembroke Telephone Company
Beamspeed	Point Broadband, LLC
Cable One, Inc.	South Georgia Governmental Services Authority
Cableco, LLC	TDS Telecom
Citizens Telephone Company, Inc.	Truvista Communications, Inc.
City Of Elberton	Vyve
Community Television Co, Inc.	West Carolina Communications
Consolidated Communications, Inc.	Wide Open West Networks, LLC
Dalton Utilities aka The Board Of Water	Wilkes Communications, Inc.
Darien Communications, Inc.	
Hart Cable, Inc.	
Hotwire Communications Ltd	
Mediacom, LLC	



www.acaconnects.org

GRANT SPELLMEYER
PRESIDENT AND CEO
GSPELLMEYER@ACACONNECTS.ORG

BRIAN HURLEY
CHIEF REGULATORY COUNSEL
BHURLEY@ACACONNECTS.ORG



www.cartesian.com

MICHAEL DARGUE
VICE PRESIDENT
MICHAEL.DARGUE@CARTESIAN.COM

SAMUEL KORNSTEIN
MANAGING DIRECTOR
SAMUEL.KORNSTEIN@CARTESIAN.COM