



# SOUTH CAROLINA



## **BEAD Program Impact Assessment**

**Eligible Locations** 

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

7% **142K LOCATIONS**  **OF SOUTH CAROLINA LOCATIONS LACK HIGH-SPEED BROADBAND IN JUN 2023** 

VS. 9% STATE/TERRITORY AVERAGE

#### **UNSERVED LOCATIONS, JUN. 2024**



50.1K LOCATIONS

Are estimated to lack broadband access at 25/3 Mbps

#### **UNDERSERVED LOCATIONS, JUN. 2024**



**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.

**Total Funding** 

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

\$552M

IN BEAD FUNDING HAS BEEN **ALLOCATED TO SOUTH CAROLINA** 

VS. \$743M STATE/TERRITORY AVERAGE

#### **ESTIMATED BEAD FUNDING:**

**BEAD Funds** allocated by NTIA

\$552M

**Estimated Provider Match** 

\$283M

**Estimated Total Capital** 

\$835M

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

### **Deployment**

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

\$380M-\$551M

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

#### **DEPLOYMENT SCENARIOS:**



**Baseline Fiber** 

ກຸດດຸກ Maximum Fiber

100% LOCATIONS **REACHED** 

84% FIBER **LOCATIONS** 

100% **LOCATIONS REACHED** 

100% **FIBER LOCATIONS** 

\$663M **TOTAL CAPITAL COST** 

\$172M REMAINING BUDGET

\$835M **TOTAL CAPITAL COST** 

\$142K

**REMAINING BUDGET** 



#### **Estimate Eligible** Locations

## **South Carolina | Estimated Eligible Locations for BEAD Projects**

	Unserved (less than 25Mbps/3Mbps)	Underserved (less than	Location Distribution in June 2024
June 2023 FCC Broadband Locations	86.1K	100Mbps/20Mbps) 55.8K	Served Underserved Unserved  2.2M
<ul> <li>Subsidy Program Funded Locations<sup>1</sup></li> </ul>	28.5K	11.1K	94.9K  B 44.8K  2.1M  2.1M
Incremental Build <sup>2</sup> (13% annual build, for 12 months)	7.5K		94.9K  2.3% of location are unserved  South Carolina
Jun. 2024 Estimated Eligible Locations	50.1K <b>A</b>	44.8K B	We estimate 4% of locations will be eligible to BEAD Project Funding in South Carolina

<sup>1.</sup> Locations with "commitments" to receive support from federal subsidy programs





be eligible for

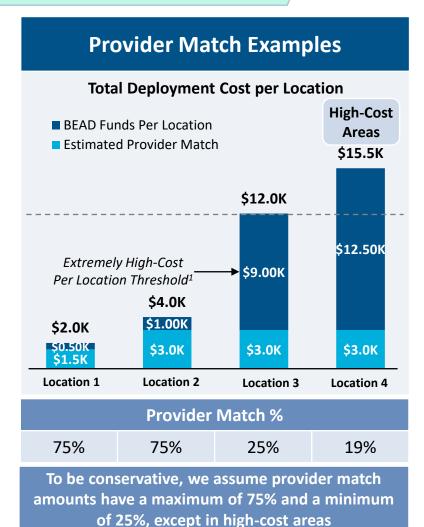
2.1% of locations are underserved

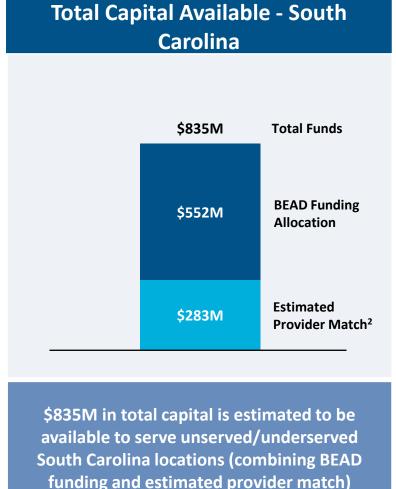
2.3% of locations are unserved

<sup>2.</sup> 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)

# Calculate BEAD Funding

## **South Carolina | BEAD Funding & Estimated Provider Match**





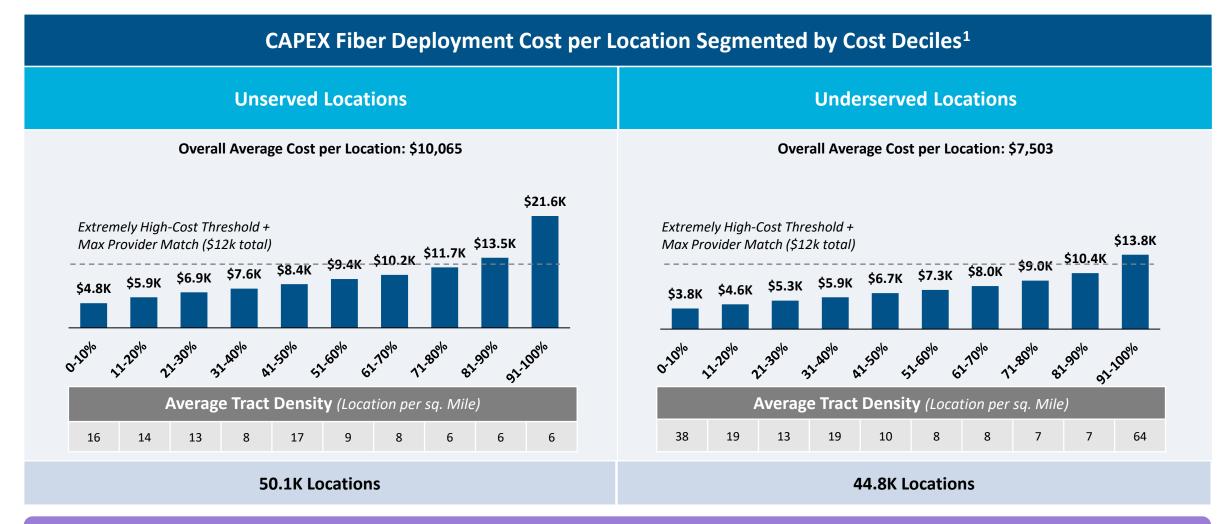


<sup>2.</sup> In reality, providers will determine the viable level of match funding for each project using a business case model. They will be willing to contribute a greater match in some locations and less in others. Locations which are hardest to serve may need to be fully funded by BEAD with no 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



<sup>1.</sup> The model uses a \$9k threshold, however, States/Territories will individually need to determine their appropriate extremely high-cost threshold

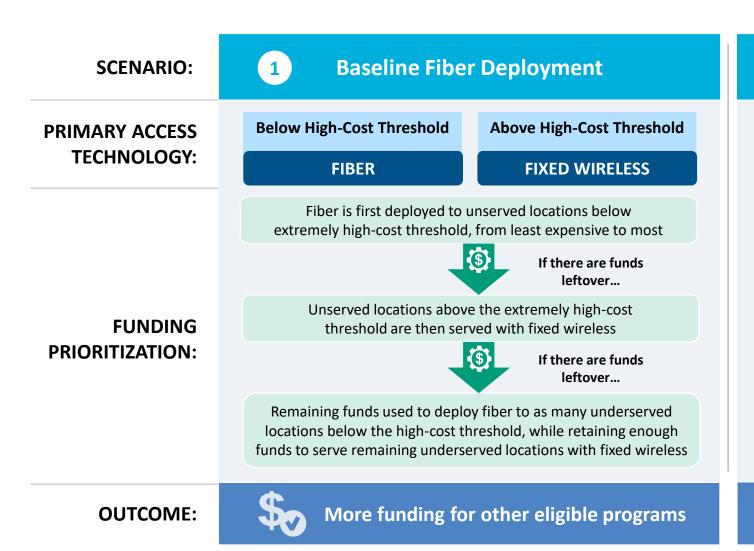
## **South Carolina | Cost to Deploy Fiber by Decile**



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







Maximum Fiber Deployment<sup>1</sup>

**Below High-Cost Threshold** 

**Above High-Cost Threshold** 

**FIBER** 

**FIBER & FIXED WIRELESS** 

Fiber is deployed to low-cost areas first across both unserved and underserved locations

> Model optimizes to maximize fiber locations and achieve full coverage within budget

As many locations as possible are served with fiber, while leaving budget for fixed wireless when 100% fiber coverage is not possible



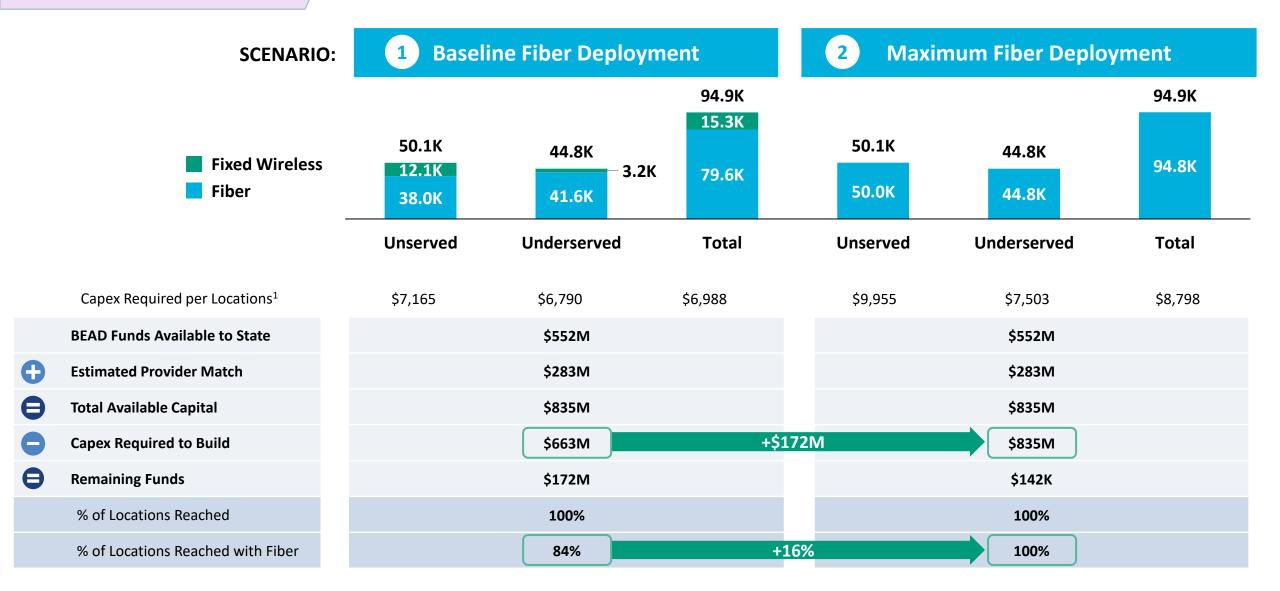
More locations reached with fiber





# Develop Deployment Scenarios

## **South Carolina | Scenario Analysis Results**







**VERSION 4.0** 

7

### **South Carolina | Conclusion**



#### **Funding Summary**

1

#### **Key Findings**

South Carolina is expected to receive

\$552M in BEAD funding



\$283M in estimated provider matching

We estimate the funding is sufficient to reach all of South Carolina's 94.9k eligible locations with highspeed broadband South Carolina will need to decide how far to deploy fiber while considering the trade-off of having higher fiber coverage vs. greater remaining funds for other BEAD eligible programs

#### A Baseline Fiber Deployment...



#### **Maximizing Fiber...**

- Leaves \$172M additional funds for affordability programs
- Reaches 84% of locations with fiber
- Requires 16% to be reached with other tech.

- Leaves \$142K 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

## **South Carolina** | **ACA Connects Members**

Member Name				
Atlantic Broadband				
Berkeley Cable Television, Inc.				
Cable One, Inc.				
Catawba Services, Inc.				
Consolidated Communications, Inc.				
Horry Telephone Cooperative, Inc.				
Hotwire Communications Ltd				
Palmetto Rural Telephone Cooperative, Inc.				
Sandhill Telephone Cooperative, Inc.				
TDS Telecom				
Truvista Communications, Inc.				
Vyve				
West Carolina Communications				
Wide Open West Networks, LLC				
Wilkes Communications, Inc.				





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