





## **NEW MEXICO**

## **BEAD Program Impact Assessment**

**Eligible Locations** 

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

19% **161K LOCATIONS**  **OF NEW MEXICO LOCATIONS LACK HIGH-SPEED BROADBAND IN JUN 2023** 

VS. 9% STATE/TERRITORY AVERAGE

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



54.0K **LOCATIONS** 

Are estimated to lack broadband access at 25/3 Mbps

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



36.8K **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?

\$675M

IN BEAD FUNDING HAS BEEN **ALLOCATED TO NEW MEXICO** 

VS. \$743M STATE/TERRITORY AVERAGE

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

**BEAD Funds** allocated by NTIA

\$675M

**Estimated Provider Match** 

\$270M

**Estimated Total Capital** 

\$946M

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?

\$235M-\$675M

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

#### **DEPLOYMENT SCENARIOS:**



**Baseline Fiber** 

ກຸດດຸກ Maximum **Fiber** 

100% **LOCATIONS** 

**REACHED** 

44% FIBER

**LOCATIONS** 

100% LOCATIONS **REACHED** 

**73% FIBER LOCATIONS** 

\$505M **TOTAL CAPITAL COST** 

\$441M REMAINING BUDGET

\$946M **TOTAL CAPITAL COST** 

\$--M









# **Estimate Eligible Locations**

# **New Mexico | Estimated Eligible Locations for BEAD Projects**

	Unserved (less than 25Mbps/3Mbps)	Underserved (less than 100Mbps/20Mbps)	Loca
June 2023 FCC Broadband Locations	101.0K	60.0K	Serve Unde
<ul> <li>Subsidy Program Funded Locations<sup>1</sup></li> </ul>	39.0K	23.2K	770.0H
Incremental Build <sup>2</sup> (13% annual build, for 12 months)	8.1K		90.8K
Jun. 2024 Estimated Eligible Locations	54.0K <b>A</b>	36.8K <b>B</b>	We estim





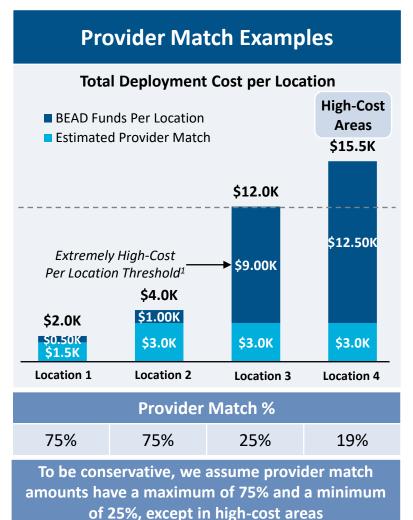


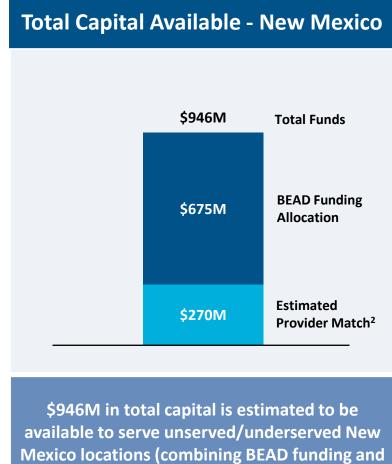
<sup>1.</sup> Locations with "commitments" to receive support from federal subsidy programs

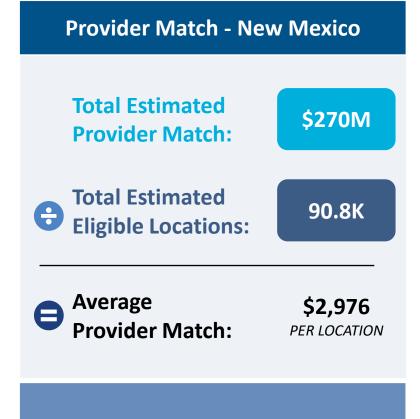
<sup>2.</sup> Given the uncertainty around the magnitude of locations moving from unserved to underserved, we have not made incremental builds adjustments to underserved locations BEAD eligible locations does not account for state-specific eligibility rules set forth in Initial Proposals Source: Cartesian, FCC National Broadband Map (June 2023 data, released in November 2023)

#### Calculate BEAD **Funding**

## **New Mexico | BEAD Funding & Estimated Provider Match**







estimated provider match)

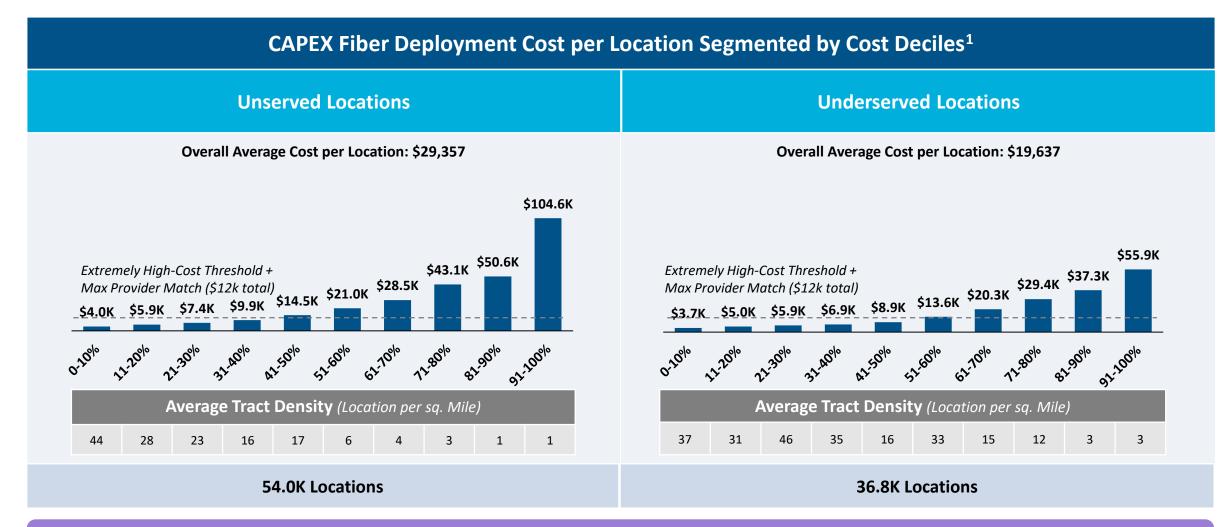
We estimate the average provider match will be \$2,976 – provider matches will be 75% where cost to deploy is less than \$4K



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

<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

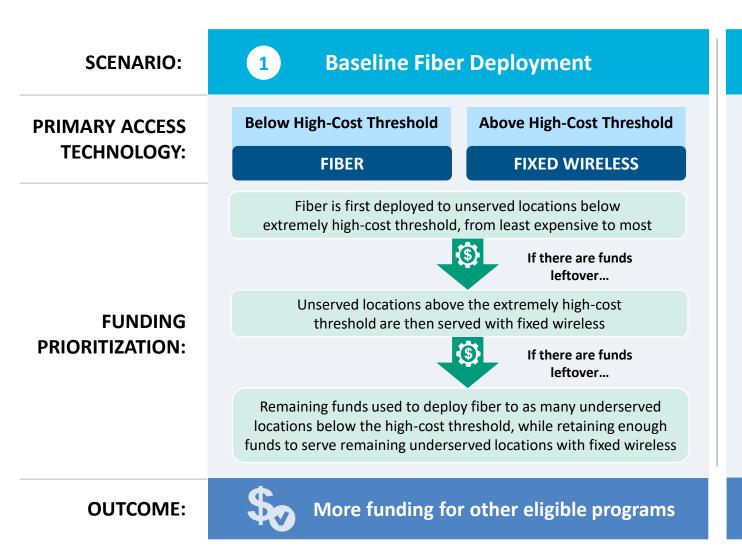
## New Mexico | Cost to Deploy Fiber by Decile



Over 40% of locations are estimated to fall below the High-Cost Threshold + Provider Match









**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



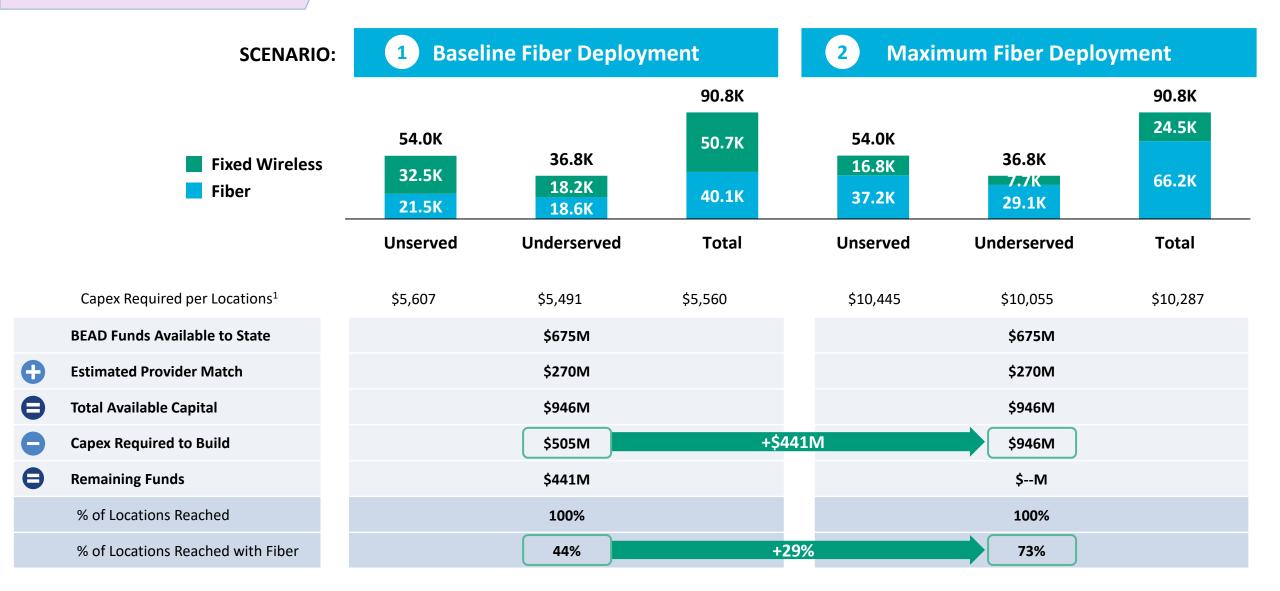
More locations reached with fiber





# Develop Deployment Scenarios

## **New Mexico | Scenario Analysis Results**









### New Mexico | Conclusion



#### **Funding Summary**



#### **Key Findings**

New Mexico is expected to receive

\$675M in BEAD funding



\$270M in estimated provider matching

We estimate the funding is sufficient to reach all of New Mexico's 90.8k eligible locations with high-speed broadband New Mexico will need to decide how far to deploy fiber while considering the trade-off of having higher fiber coverage vs. retaining funds for other BEAD eligible programs

#### A Baseline Fiber Deployment...



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

- Leaves \$441M additional funds for affordability programs
- Reaches 44% of locations with fiber
- Requires 56% to be reached with other tech.

- Exhausts funds without leaving additional funds for affordability programs
- Reaches 73% of locations with fiber
- Requires 27% 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

# **New Mexico | ACA Connects Members**

Member Name		
Beamspeed		
Cable One, Inc.		
Caribbean Communications Corp dba Innovative Cable		
Consolidated Communications, Inc.		
Lict Corp		
Pvt Networks, Inc.		
Stimulus Technologies Of Missouri, LLC		
TDS Telecom		





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