





# CALIFORNIA

### **BEAD Program Impact Assessment**

**Eligible Locations** 

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

4% **445K LOCATIONS**  **OF CALIFORNIA LOCATIONS LACK HIGH-SPEED BROADBAND IN JUN 2023** 

VS. 9% STATE/TERRITORY AVERAGE

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



232.2K **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?

\$1.9B

IN BEAD FUNDING HAS BEEN **ALLOCATED TO CALIFORNIA** 

VS. \$743M STATE/TERRITORY AVERAGE

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

**BEAD Funds** allocated by NTIA

\$1.9B

**Estimated Provider Match** 

\$1.1B

**Estimated Total Capital** 

\$2.9B

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?

\$1.1B-\$1.9B

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

#### **DEPLOYMENT SCENARIOS:**



**Baseline Fiber** 

ກຸດດຸກ Maximum

100% LOCATIONS **REACHED** 

35% FIBER **LOCATIONS** 

**LOCATIONS REACHED** 

59% 100% FIBER **LOCATIONS** 

\$2.1B **TOTAL CAPITAL COST** 

\$800M REMAINING BUDGET

\$2.9B **TOTAL CAPITAL COST** 

\$--M **REMAINING BUDGET** 





# **Estimate Eligible Locations**

# **California | Estimated Eligible Locations for BEAD Projects**

June 2023 FCC Broadband Locations	Unserved (less than 25Mbps/3Mbps)	Underserved (less than 100Mbps/20Mbps)	Location Distribution in June 2024	
	296.6К	148.3K	Served Underserved Unserved  10.2M	
<ul> <li>Subsidy Program Funded Locations<sup>1</sup></li> </ul>	29.7K	22.5K	9.9M  357.9K  1.2% of locations are underserved	
Incremental Build <sup>2</sup> (13% annual build, for 12 months)	34.7K		A 232.2K 2.3% of locations are unserved California	
Jun. 2024 Estimated Eligible Locations	232.2K <b>A</b>	125.7K <b>B</b>	We estimate 4% of locations will be eligible for BEAD Project Funding in California	

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

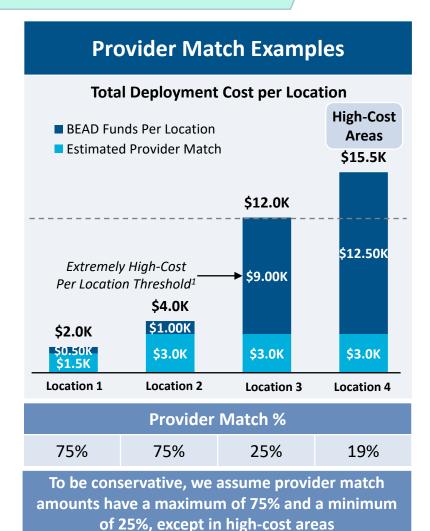


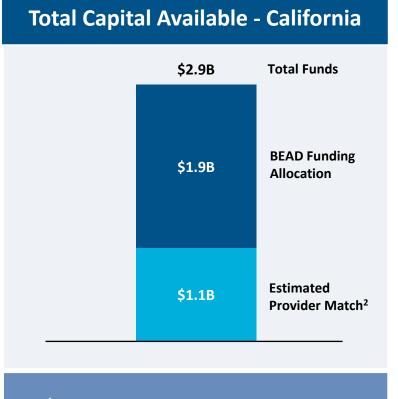


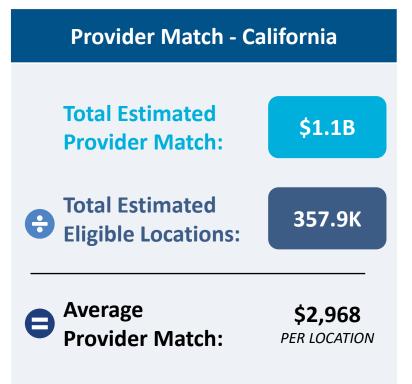
<sup>2.</sup> Given the uncertainty around the magnitude of locations moving from unserved to underserved, we have not made incremental builds adjustments to underserved locations BEAD eligible locations does not account for state-specific eligibility rules set forth in Initial Proposals Source: Cartesian,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

# Calculate BEAD Funding

### **California | BEAD Funding & Estimated Provider Match**







\$2.9B in total capital is estimated to be available to serve unserved/underserved California locations (combining BEAD funding and estimated provider match)

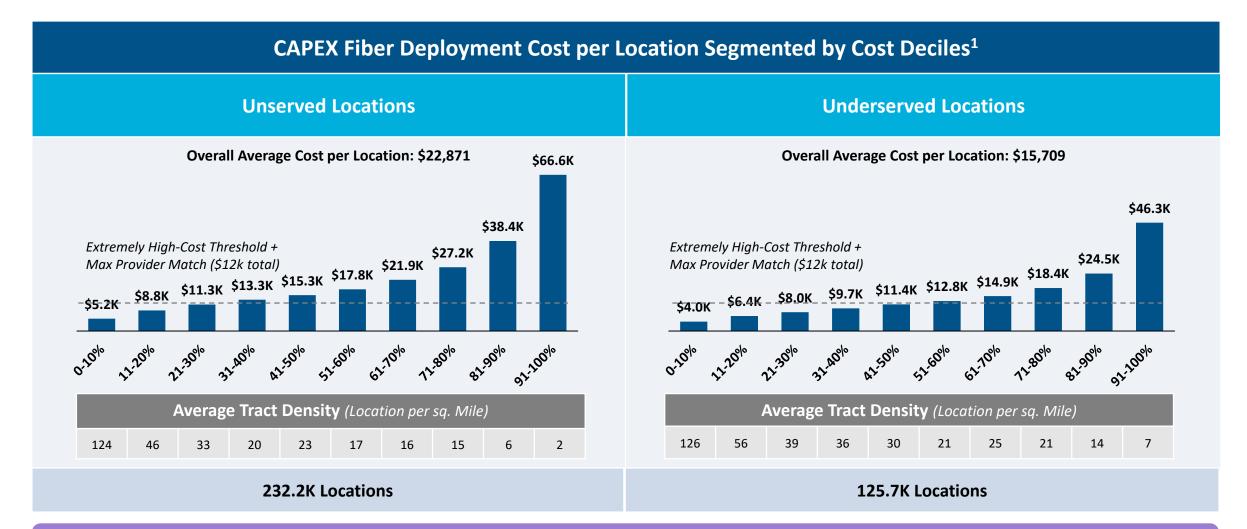
We estimate the average provider match will be \$2,968 – provider matches will be 75% where cost to deploy is less than \$4K

<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



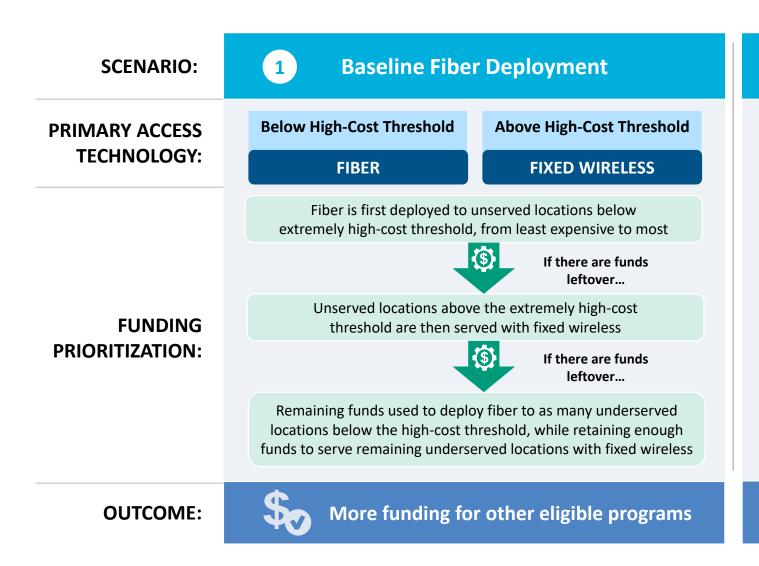


<sup>1.</sup> The model uses a \$9k threshold, however, States/Territories will individually need to determine their appropriate extremely high-cost threshold



Over 35% 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

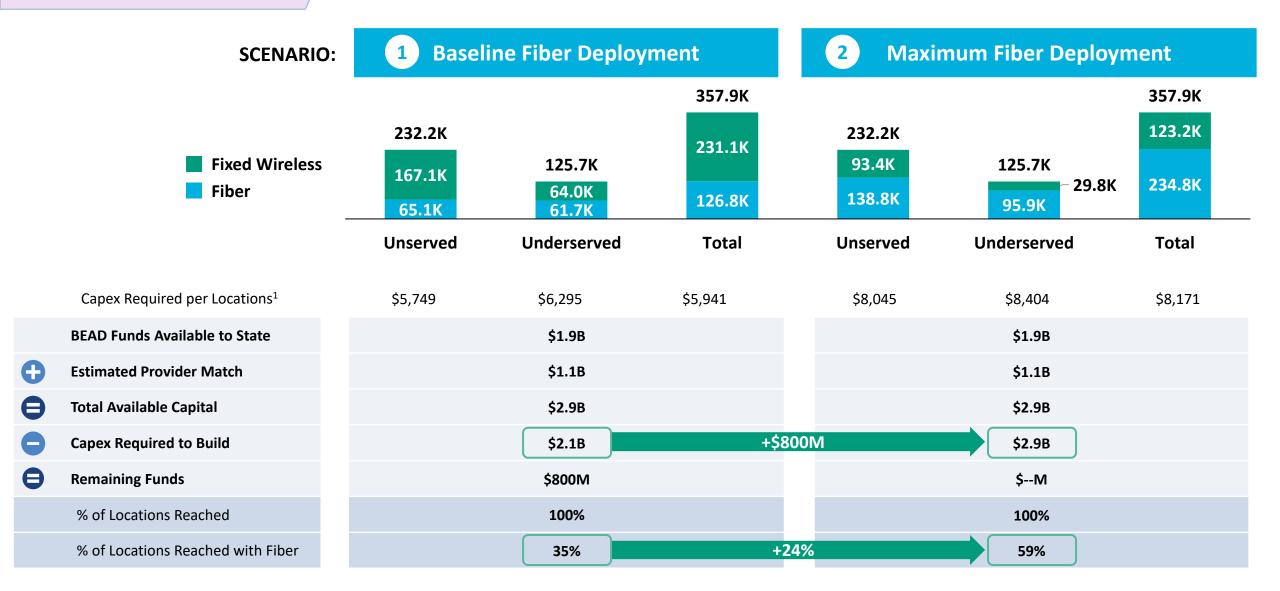


More locations reached with fiber



# Develop Deployment Scenarios

## **California | Scenario Analysis Results**









### California | Conclusion



#### **Funding Summary**

1

#### **Key Findings**

California is expected to receive

\$1.9B in BEAD funding



\$1.1B in estimated provider matching

We estimate the funding is sufficient to reach all of California's 357.9k eligible locations with high-speed broadband California 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 \$800M additional funds for affordability programs
- Reaches 35% of locations with fiber
- Requires 65% to be reached with other tech.

- Exhausts funds without leaving additional funds for affordability programs
- Reaches 59% of locations with fiber
- Requires 41% 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



## **California | ACA Connects Members**

Member Name		
Astound Br	oadband	
Beamspeed		
Calneva Bro	padband, LLC	
Caltel Conn	ections dba Calaveras Cable Vision	
Caribbean (	Communications Corp dba Innovative Cable	
Consolidate	ed Communications, Inc.	
Fort Mojave	e Television, Inc.	
Golden Raiı	n Foundation Of Laguna Woods	
Horizon Cal	ole TV Video	
Hotwire Co	mmunications Ltd	
Lict Corp		
Mediacom,	LLC	
MidAtlantic	Broadband, Inc.	
Pinpoint Co	ommunications	
San Bruno I	Municipal Cable Television	
TDS Telecor	n	
Volcano Vis	ion	
Vyve		

VERSION 4.0





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