BEAD Program: A Framework to Allocate Funding for Broadband Availability State Broadband Report: Arizona

January 2024





ARIZONA

BEAD Program Impact Assessment

1 Eligible Locations

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



OF ARIZONA LOCATIONS LACK HIGH-SPEED BROADBAND IN JUN 2023

VS. 9% STATE/TERRITORY AVERAGE

UNSERVED LOCATIONS, JUN. 2024



Are estimated to lack broadband access at 25/3 Mbps

UNDERSERVED LOCATIONS, JUN. 2024



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?

\$993M

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

ESTIMATED BEAD FUNDING:

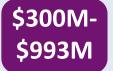


The provider match is estimated using a high-level service provider business case. See national summary deck for full details.



Deployment

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



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

DEPLOYMENT SCENARIOS:

Baseline Fiber Maximum Fiber

100% 74% LOCATIONS FIBER REACHED LOCATIONS 100% 91% LOCATIONS FIBER REACHED LOCATIONS

\$706M TOTAL CAPITAL COST

\$1.4B TOTAL CAPITAL COST

\$693M REMAINING BUDGET

VERSION 4.0





Arizona | Estimated Eligible Locations for BEAD Projects

	Unserved (less than	Underserved (less than	Location Distribution in June 2024
June 2023 FCC Broadband Locations	25Mbps/3Mbps) 142.3K	100Mbps/20Mbps) 109.4K	 Served Underserved and Unserved Unserved Unserved
Subsidy Program Funded Locations ¹	51.1K	34.2K	2.5M IS4.5K B 75.2K 2.8% of locations are underserved
Incremental Build ² (13% annual build, for 12 months)	11.9K		A 79.4K 2.9% of locations are unserved Arizona
 	79.4K 🛕	75.2K B	We estimate 6% of locations will be eligible for BEAD Project Funding in Arizona

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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Estimate Eligible

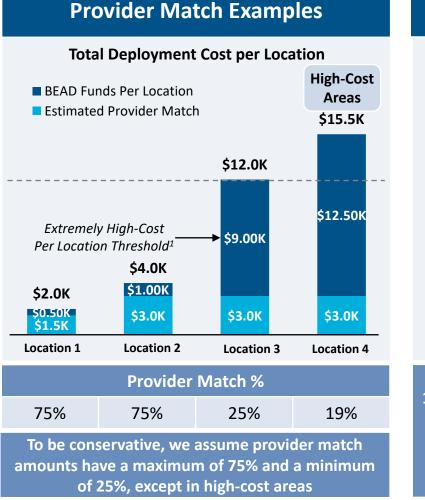
Locations

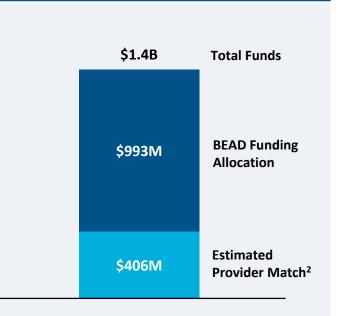
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Calculate BEAD Funding

Arizona | BEAD Funding & Estimated Provider Match





Total Capital Available - Arizona

1.4B in total capital is estimated to be available to serve unserved/underserved Arizona locations (combining BEAD funding and estimated provider match)



We estimate the average provider match will be \$2,627 – 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

 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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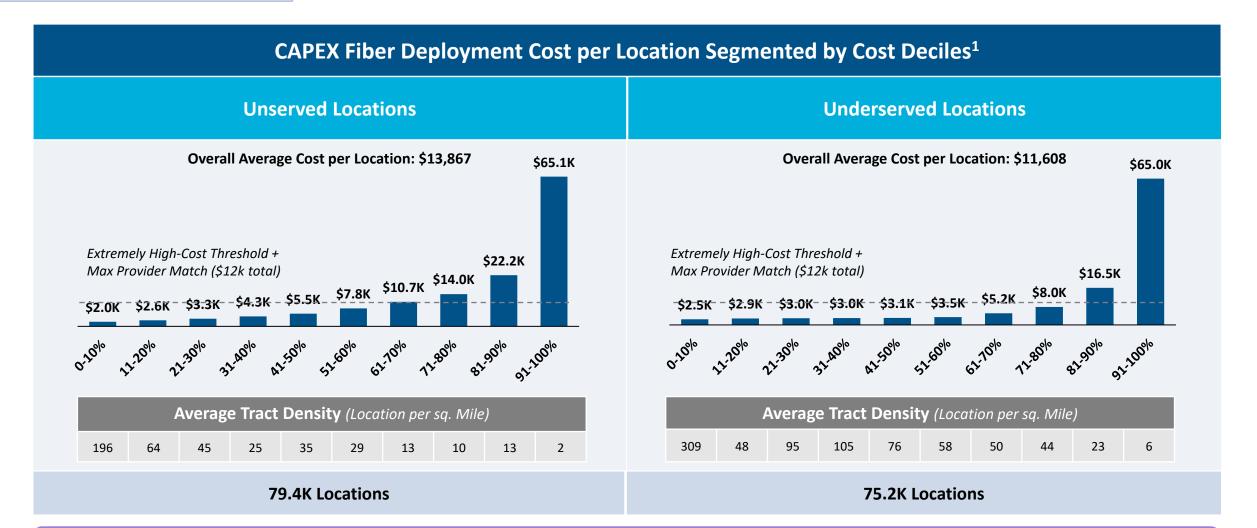






Develop Deployment Scenarios

Arizona | Cost to Deploy Fiber by Decile

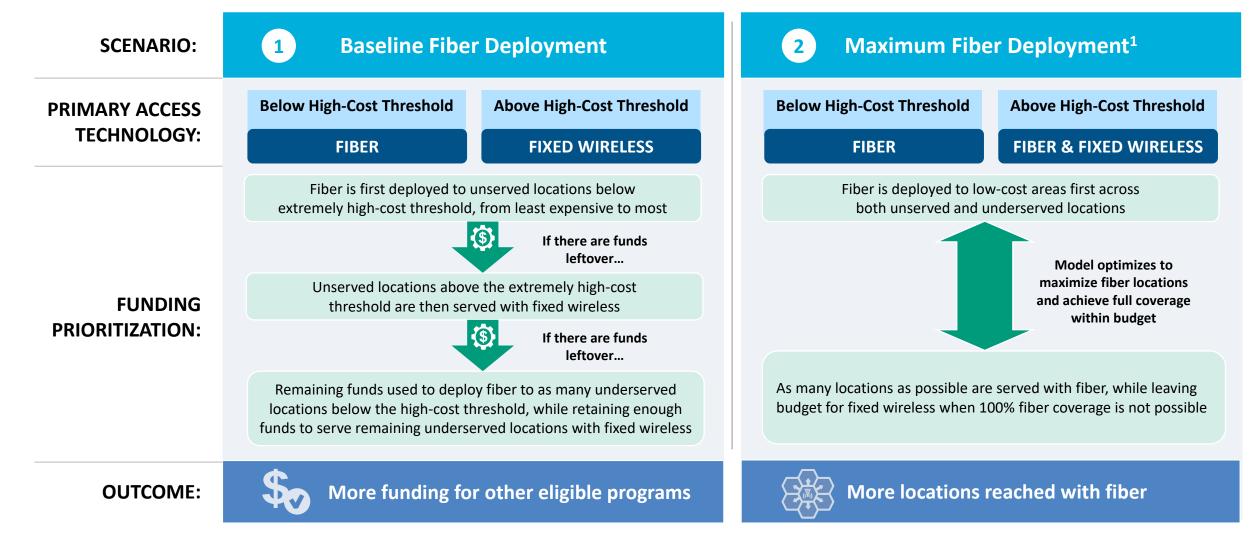


Over 75% of locations are estimated to fall below the High-Cost Threshold + Provider Match

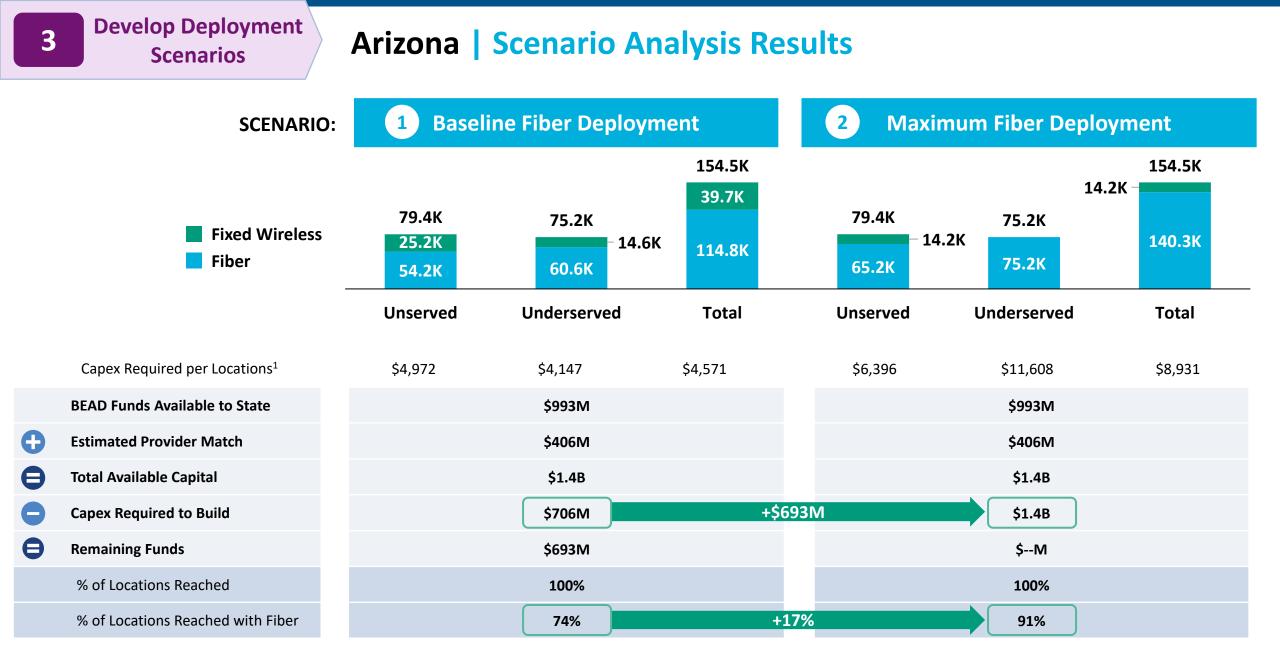


Develop Deployment Scenarios

Arizona | Fiber Preferencing Scenarios







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.

Arizona | Conclusion

Funding Summary	Key	Findings		
Arizona is expected to receive	Arizona 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			
\$993M in BEAD funding				
+	A Baseline Fiber Deployment vs.	Maximizing Fiber		
\$406M in estimated provider matching	 Leaves \$693M additional funds for affordability programs 	 Exhausts funds without leaving additional funds for affordability programs 		
We estimate the funding is sufficient to reach all of Arizona's 154.5k eligible locations with high-speed broadband	 Reaches 74% of locations with fiber Requires 26% to be reached with other tech. 	 Reaches 91% of locations with fiber Requires 9% to be reached with other tech. 		
broadband	States/Territories will set their own extremely high-cost threshold and may choose a threshold or funding paradigm different from these two scenarios			

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Arizona | ACA Connects Members

Member Name
Beamspeed
Cable One, Inc.
Caribbean Communications Corp dba Innovative Cable
Consolidated Communications, Inc.
Fort Mojave Television, Inc.
Mediacom, LLC
Pinpoint Communications
Rio Virgin Cablevision
Schurz Communications, Inc.
South Central Utah Telephone
TDS Telecom

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