





MICHIGAN



BEAD Program Impact Assessment

Eligible Locations

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

10% **409K LOCATIONS**

OF MICHIGAN LOCATIONS LACK **HIGH-SPEED BROADBAND IN JUN 2023**

VS. 9% STATE/TERRITORY AVERAGE

UNSERVED LOCATIONS, JUN. 2024



142.1K **LOCATIONS**

Are estimated to lack broadband access at 25/3 Mbps

UNDERSERVED LOCATIONS, JUN. 2024



57.8K **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?

\$1.6B

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

VS. \$743M STATE/TERRITORY AVERAGE

ESTIMATED BEAD FUNDING:

BEAD Funds allocated by NTIA

\$1.6B

Estimated Provider Match

\$59s4M

Estimated Total Capital

\$2.2B

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?

\$778M-\$1.0B

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

DEPLOYMENT SCENARIOS:



Baseline Fiber

ກຸດດຸກ Maximum Fiber

100% LOCATIONS **REACHED**

91% FIBER **LOCATIONS**

100% **LOCATIONS REACHED**

100% **FIBER**

LOCATIONS

\$1.4B TOTAL CAPITAL COST

TOTAL CAPITAL COST

\$1.6B

\$782M REMAINING BUDGET

\$552M **REMAINING BUDGET**

Estimate Eligible Locations

Michigan | Estimated Eligible Locations for BEAD Projects

	Unserved (less than	Underserved (less than	Location Distribution in June 2024
June 2023 FCC Broadband Locations	25Mbps/3Mbps) 319.1K	100Mbps/20Mbps) 90.1K	Served Underserved Unserved 4.1M
 Subsidy Program Funded Locations¹ 	155.8K	32.3K	199.9K B 57.8K 1.4% of locations are underserved
Incremental Build ² (13% annual build, for 12 months)	21.2K		A 142.1K 3.5% of locations are unserved Michigan
Jun. 2024 Estimated Eligible Locations	142.1K A	57.8K B	We estimate 5% of locations will be eligible for BEAD Project Funding in Michigan

^{1.} Locations with "commitments" to receive support from federal subsidy programs

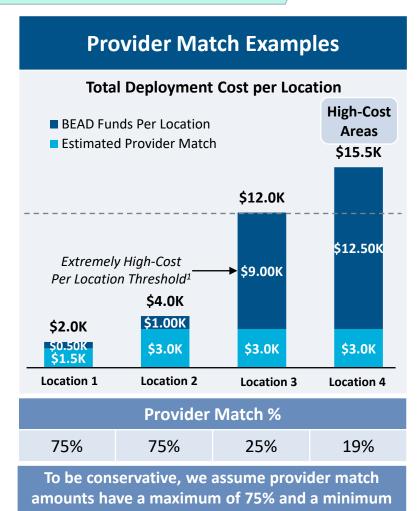


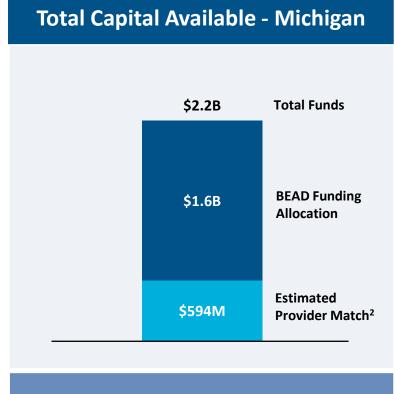


^{2.} Given the uncertainty around the magnitude of locations moving from unserved to underserved, we have not made incremental builds adjustments to underserved locations BEAD eligible locations does not account for state-specific eligibility rules set forth in Initial Proposals Source: Cartesian, FCC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

Calculate BEAD Funding

Michigan | BEAD Funding & Estimated Provider Match





\$2.2B in total capital is estimated to be available to serve unserved/underserved Michigan locations (combining BEAD funding and estimated provider match)



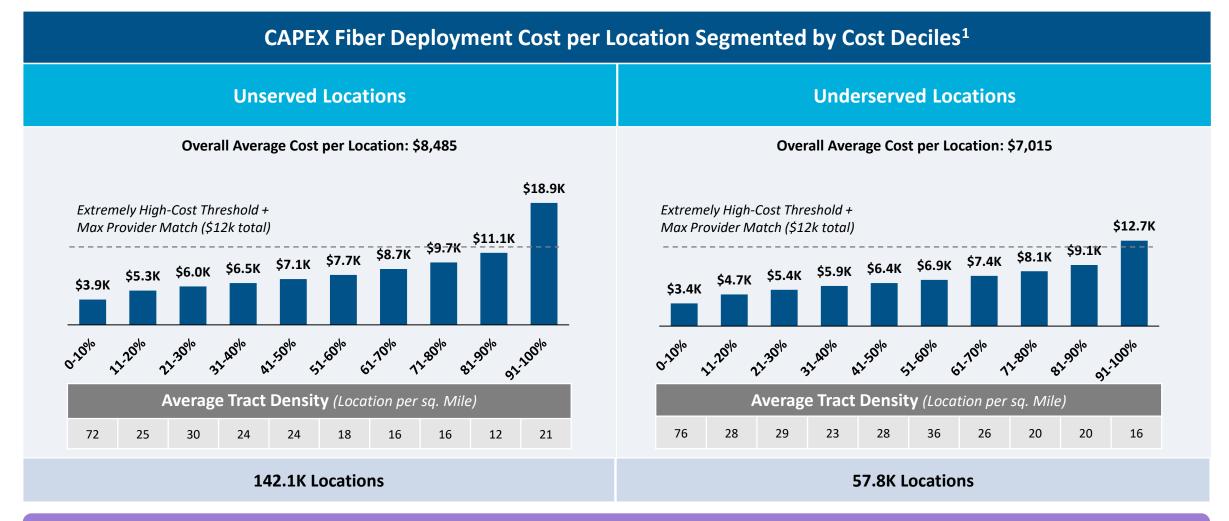
We estimate the average provider match will be \$2,970 – provider matches will be 75% where cost to deploy is less than \$4K

^{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



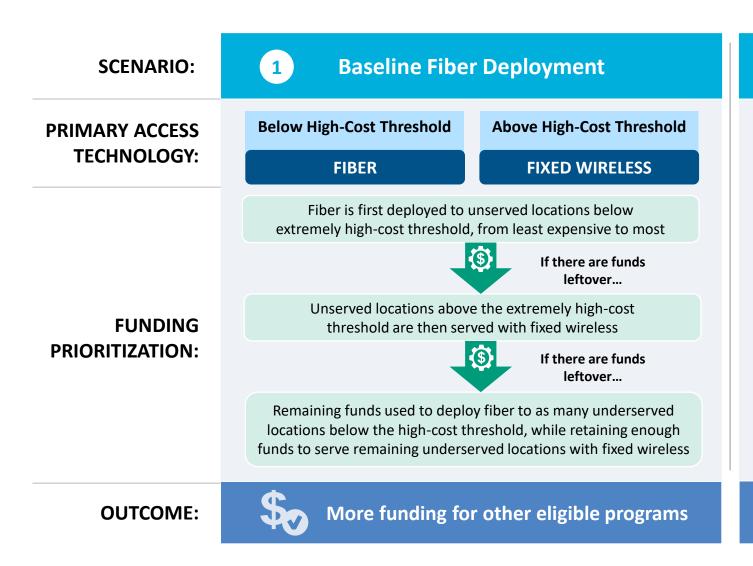
of 25%, except in high-cost areas

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



Over 90% 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



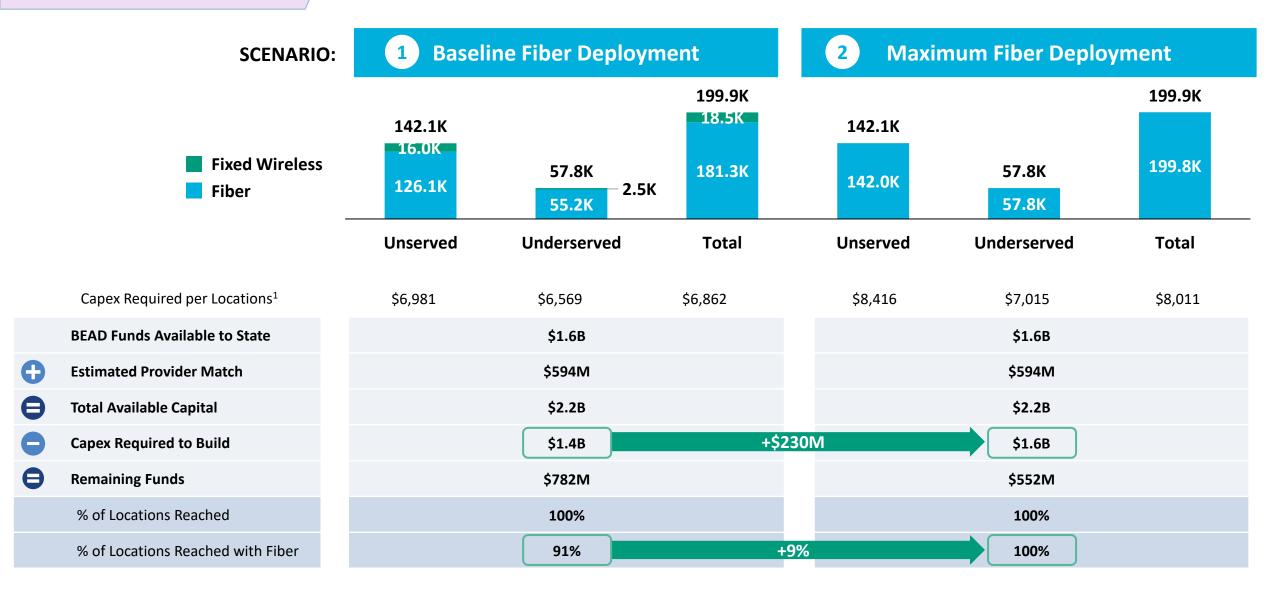
More locations reached with fiber





Develop Deployment Scenarios

Michigan | Scenario Analysis Results



^{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

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Michigan | Conclusion



Funding Summary



Key Findings

Michigan is expected to receive

\$1.6B in BEAD funding



\$594M in estimated provider matching

We estimate the funding is sufficient to reach all of Michigan's 199.9k eligible locations with high-speed broadband Michigan appears well positioned to reach all eligible premises and have funding for other BEAD eligible programs

A Baseline Fiber Deployment...



Maximizing Fiber...

- Leaves \$782M additional funds for affordability programs
- Reaches 91% of locations with fiber
- Requires 9% to be reached with other tech.

- Leaves \$552M 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

Michigan | ACA Connects Members

Member Name			
Ace Telephone Assoc. dba Acentek	Northeast Comm Of Wisconsin, Inc. dba Nsight		
Block Communications, Inc.	Ogden Telephone Company Cablevision		
Bloomingdale Communications, Inc.	Point Broadband, LLC		
Cable America Missouri, LLC	Sand Creek Communications Company		
Carr Communications	Sister Lakes Cable TV		
CCI Systems, Inc. dba Astrea	Springcom, Inc.		
City Of Norway	Sunrise Communications, LLC		
CMS Internet, LLC	TDS Telecom		
Consolidated Communications, Inc.	TVC, Inc.		
DPCable TV	Vogtmann Engineering, Inc.		
Lakenet, LLC	Waldron Communication Company		
Lict Corp	Wide Open West Networks, LLC		
Mediacom, LLC	Wyandotte Municipal Service		
Metronet			

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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