





# **BEAD Program Impact Assessment**

1 Eligible Locations

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

**10%** 131K LOCATIONS

OF IOWA LOCATIONS LACK HIGH-SPEED BROADBAND IN JUN 2023

VS. 9% STATE/TERRITORY AVERAGE

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



39.7K LOCATIONS

Are estimated to lack broadband access at **25/3 Mbps** 

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



52.3K

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?

\$415M

IN BEAD FUNDING HAS BEEN ALLOCATED TO IOWA

VS. \$743M STATE/TERRITORY AVERAGE

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

**BEAD Funds** allocated by NTIA

\$415M

**Estimated Provider Match** 

\$275M

**Estimated Total Capital** 

\$691M

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

3

## **Deployment**

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

\$295M-\$415M

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

#### **DEPLOYMENT SCENARIOS:**



Baseline Fiber Maximum Fiber

100%
LOCATIONS
REACHED

33% FIBER LOCATIONS 100%
LOCATIONS
REACHED

40%
FIBER
LOCATIONS

\$571M TOTAL CAPITAL COST

\$120M REMAINING BUDGET \$691M TOTAL CAPITAL COST

\$--M
REMAINING BUDGET







#### **Estimate Eligible** Locations

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

	Unserved (less than	Underserved (less than	Location Distribution in June 2024
June 2023 FCC Broadband Locations	25Mbps/3Mbps) 67.2K	100Mbps/20Mbps) 63.8K	Served Underserved Unserved  1.4M
<ul> <li>Subsidy Program Funded Locations<sup>1</sup></li> </ul>	21.6K	11.5K	91.9K  B 52.3K  3.8% of locations are underserved
Incremental Build <sup>2</sup> (13% annual build, for 12 months)	5.9K		91.9K  2.9% of locations are unserved  lowa
Jun. 2024 Estimated Eligible Locations	39.7К 🛕	52.3K <b>B</b>	We estimate 7% of locations will be eligible for BEAD Project Funding in Iowa

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

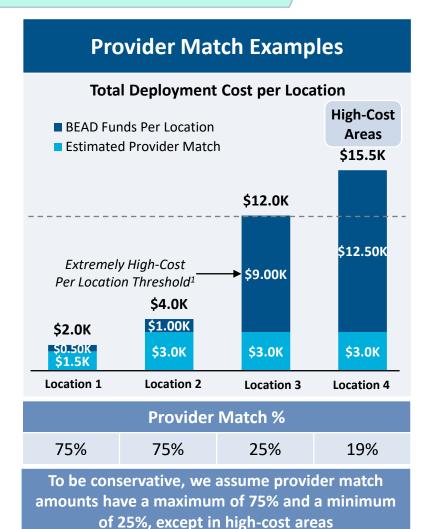


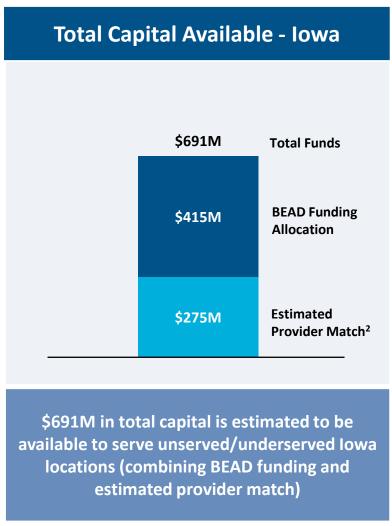


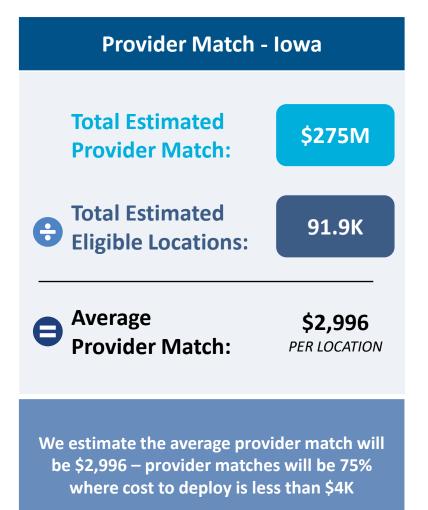
<sup>2.</sup> Given the uncertainty around the magnitude of locations moving from unserved to underserved, we have not made incremental builds adjustments to underserved locations BEAD eligible locations does not account for state-specific eligibility rules set forth in Initial Proposals Source: Cartesian,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

# Calculate BEAD Funding

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





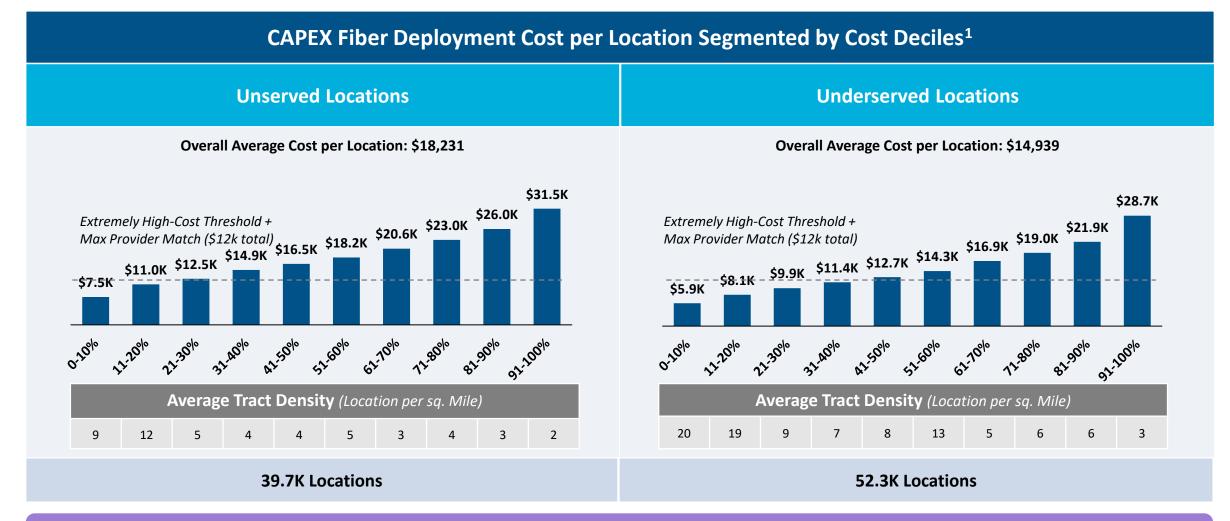




<sup>1.</sup> The model uses a \$9k threshold, however, States/Territories will individually need to determine their appropriate extremely high-cost threshold

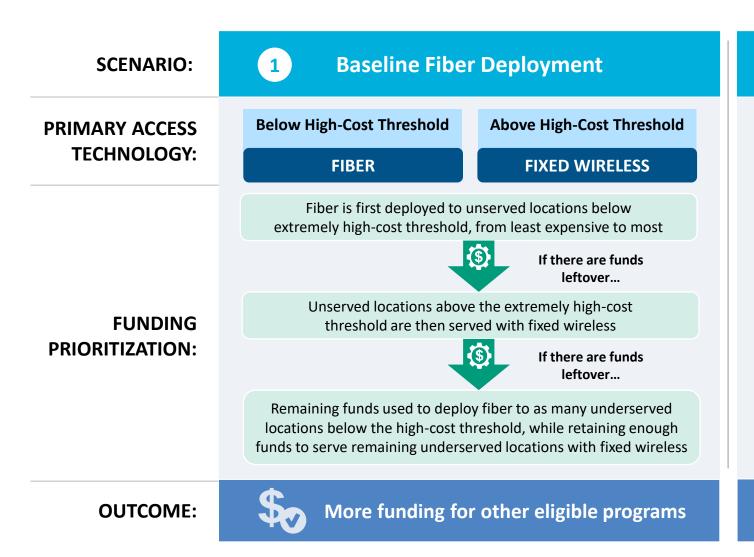
<sup>2.</sup> In reality, providers will determine the viable level of match funding for each project using a business case model. They will be willing to contribute a greater match in some locations and less in others. Locations which are hardest to serve may need to be fully funded by BEAD with no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

# Iowa | Cost to Deploy Fiber by Decile



Over 30% 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

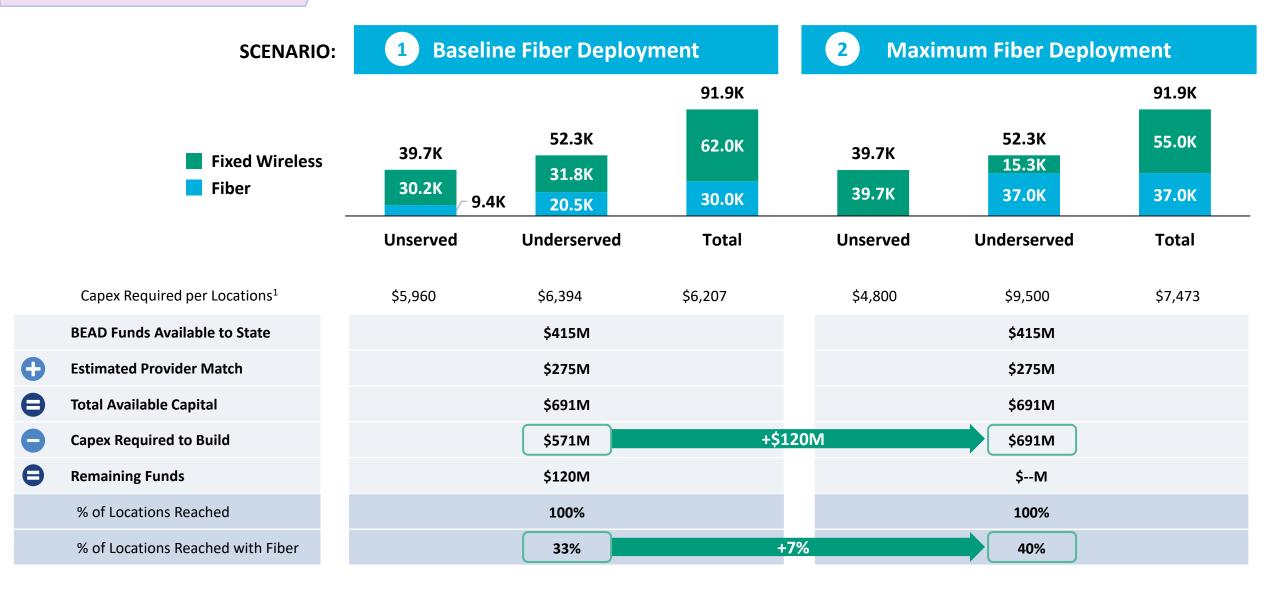


More locations reached with fiber



#### **Develop Deployment Scenarios**

# **Iowa | Scenario Analysis Results**



7





## **Iowa | Conclusion**



### **Funding Summary**



#### **Key Findings**

Iowa is expected to receive

\$415M in BEAD funding



\$275M in estimated provider matching

We estimate the funding is sufficient to reach all of lowa's 91.9k eligible locations with high-speed broadband

Iowa 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 \$120M additional funds for affordability programs
- Reaches 33% of locations with fiber
- Requires 67% to be reached with other tech.

- Exhausts funds without leaving additional funds for affordability programs
- Reaches 40% of locations with fiber
- Requires 60% 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



# **Iowa | ACA Connects Members**

Member Name		
Ace Telephone Assoc dba Acentek	Corn Belt Telephone Company, Inc.	
Algona Municipal Utilities	Dumont Telephone Company	
Alpine Cable Television, LLC	Dunkerton Telephone Cooperative	
Alta Municipal Utilities	Ellsworth Cooperative Telephone Association	
Atkins Cablevision, Inc.	Farmers Mutual Coop Telephone Co	
Baldwin Cablevision	Farmers Mutual Nora Springs	
Beamspeed	Farmers Mutual Telephone	
Breda Telephone Corp dba Western IA Networks	Farmers Telephone Company, Inc.	
Butlerbremer Communications	Grand Mound Cooperative Telephone Association	
Cable One, Inc.	Griswold Cooperative Tele Co	
Cascade Communications Company	Grundy Center Municipal Utilities	
Casey Cable Co	Harlan Municipal Utilities	
Citizens Mutual Telephone Cooperative, Inc.	Harmony Cable, Inc.	
City Of Bellevue	Hawarden Municipal Utilities	
City Of Lenox	Hawkeye Telephone Company	
City Of Pella	Heart Of Iowa Communications Cooperative	
Clarence Cablevision Co	Hutchinson Telecommunications, Inc.	
Clear Lake Independent Telephone Co	Hutchinson Telephone Company	
CMLTelephone Cooperative Assn Of Meriden Ia	ImOn Communications, LLC	
Communications 1 Cablevision, Inc.	Independence Municipal Telecomm Utility	
Community Cable Television Agency Of Obrien County	Indianola Municipal Utilities	
Complete Communication Services Corp	Intercounty Cable Co	
Consolidated Communications, Inc.	Interstate Cablevision Co	
Cooperative Telephone Company, Inc.	Jefferson Telephone Company	

# **Iowa | ACA Connects Members**

Member Name		
Keystone Farmers Cooperative Telephone Company	Rockwell Cooperative Telephone Association, Inc.	
Laurens Municipal Comm Utility	Sac County Mutual Telephone Company	
Lehigh Valley Cooperative Telephone Association	Schaller Telephone Company	
Lict Corp	Scranton Telephone Company	
Lost Nationelwood Telephone Company	Shellsburg Cablevision, Inc.	
Marne Elk Horn Telephone	Southern Plains Cable TV	
Martelle Cooperative Tel Assoc	Spencer Municipal Utilities	
Mechanicsville Cablevision	Spring Grove Communications	
Mediacom, LLC	Springville Coop Telephone Assn, Inc.	
Metronet	TDS Telecom	
Minburn Cablevision, Inc.	Templeton Telephone Company	
Municipal Comm Utility Of The City Of Cedar Falls	United Services, Inc.	
Muscatine Power And Water	Vinton Municipal Communications Utility	
Mutual Telephone Company Ia	Waverly Communications Utility	
New Hampton Municipal Utilities	Webstercalhoun Coop Telephone Assoc	
Northeast Iowa Telephone Company	Wellman Cooperative Telephone Association	
Ogden Telephone Company Cablevision	West Iowa Telephone Company	
Olin Telephone Company, Inc.	Western Iowa Telephone Association	
Palo Cooperative Telephone	Winnebago Cooperative Telecom Assoc	
Panora Cooperative Cable	WTC Communications Wilton Telephone	
Pinpoint Communications	Wyoming Mutual Telephone Company, Inc.	
Premier Communications, Inc.		
Radcliffe Cablevision		
Rock Port Cablevision		





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