

BEAD Program: A Framework to Allocate Funding for Broadband Availability

State Broadband Report: Nebraska

January 2024



1 Eligible Locations

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

10%

80K LOCATIONS

OF NEBRASKA LOCATIONS LACK HIGH-SPEED BROADBAND IN JUN 2023

VS. 9% STATE/TERRITORY AVERAGE

UNSERVED LOCATIONS, JUN. 2024



21.3K
LOCATIONS

Are estimated to lack broadband access at 25/3 Mbps

UNDERSERVED LOCATIONS, JUN. 2024



13.6K
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.

2 Total Funding

How much capital funding is the State/Territory estimated to have?

\$405M

IN BEAD FUNDING HAS BEEN ALLOCATED TO NEBRASKA

VS. \$743M STATE/TERRITORY AVERAGE

ESTIMATED BEAD FUNDING:

BEAD Funds allocated by NTIA

\$405M

Estimated Provider Match

\$104M

Estimated Total Capital

\$510M

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?

**\$71M-
\$405M**

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

DEPLOYMENT SCENARIOS:



Baseline Fiber



Maximum Fiber

100%
LOCATIONS REACHED

8%
FIBER LOCATIONS

100%
LOCATIONS REACHED

38%
FIBER LOCATIONS

\$175M

TOTAL CAPITAL COST

\$510M





TOTAL CAPITAL COST

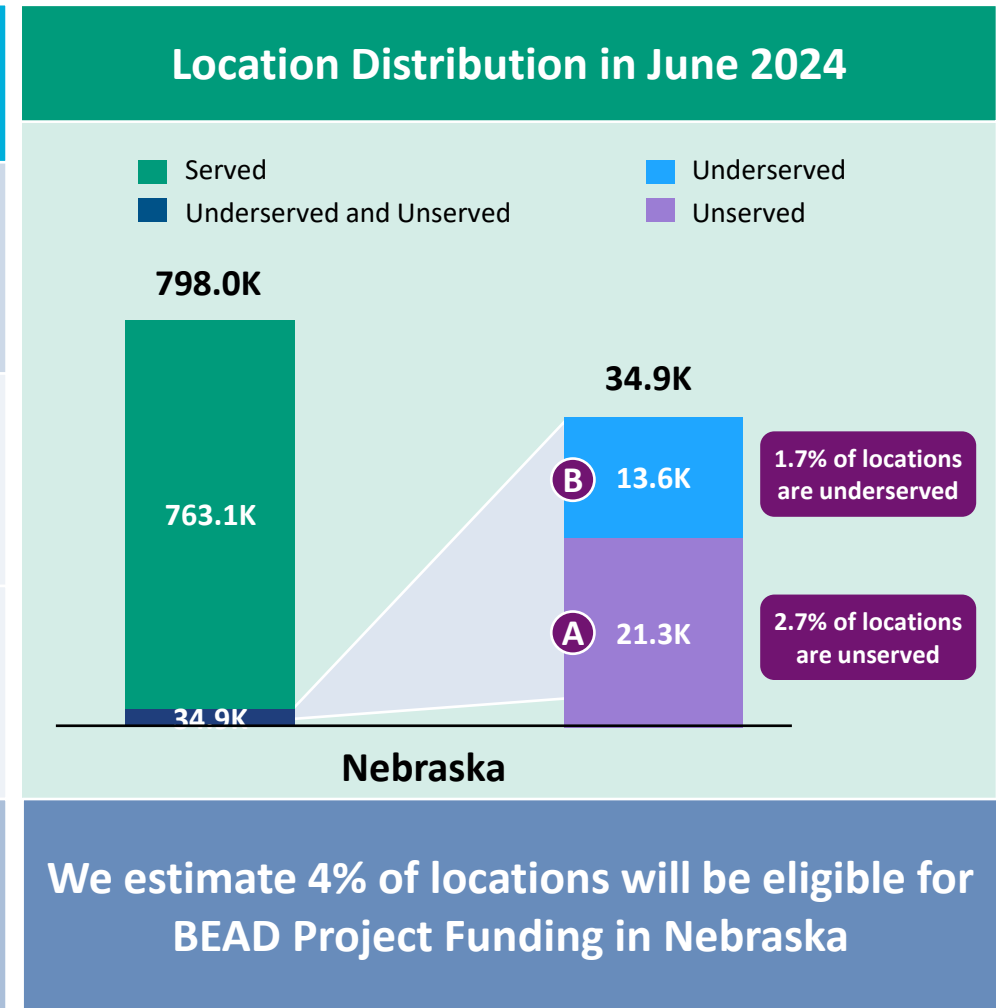
\$335M

REMAINING BUDGET

\$--M

REMAINING BUDGET

 June 2023 FCC Broadband Locations	Unserved <i>(less than 25Mbps/3Mbps)</i>	Underserved <i>(less than 100Mbps/20Mbps)</i>
 Subsidy Program Funded Locations ¹	25.9K	16.4K
 Incremental Build ² (13% annual build, for 12 months)	3.2K	--
 Jun. 2024 Estimated Eligible Locations	21.3K (A)	13.6K (B)



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

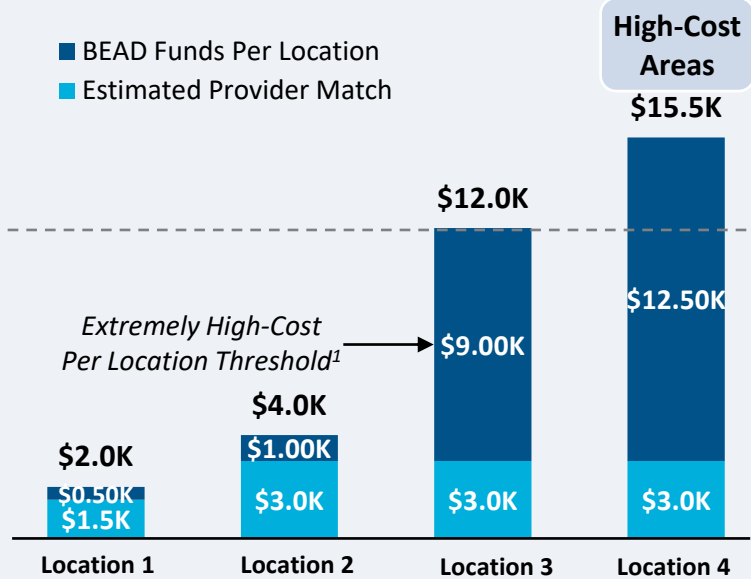
Source: Cartesian, FCC National Broadband Map (June 2023 data, released in November 2023)

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Provider Match Examples

Total Deployment Cost per Location

- BEAD Funds Per Location
- Estimated Provider Match

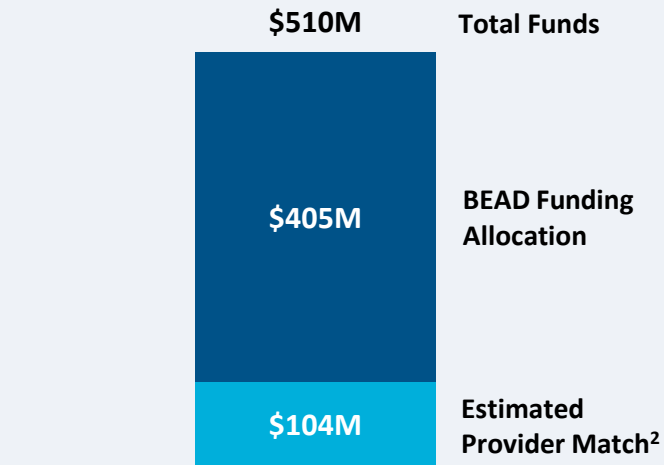


Provider Match %

75%	75%	25%	19%
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To be conservative, we assume provider match amounts have a maximum of 75% and a minimum of 25%, except in high-cost areas

Total Capital Available - Nebraska



\$510M in total capital is estimated to be available to serve unserved/underserved Nebraska locations (combining BEAD funding and estimated provider match)

Provider Match - Nebraska

Total Estimated
Provider Match:

\$104M

Total Estimated
Eligible Locations:

34.9K

Average
Provider Match:

\$2,994
PER LOCATION

We estimate the average provider match will be \$2,994 – 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
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

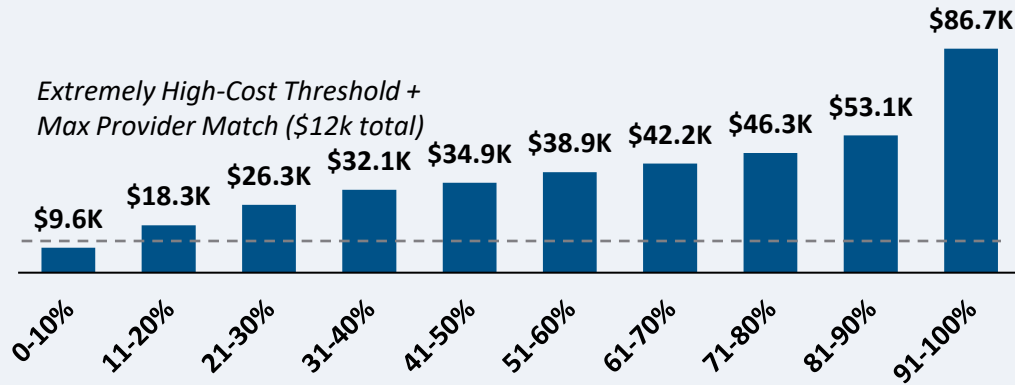
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Nebraska | Cost to Deploy Fiber by Decile

CAPEX Fiber Deployment Cost per Location Segmented by Cost Deciles¹

Unserved Locations

Overall Average Cost per Location: \$39,332



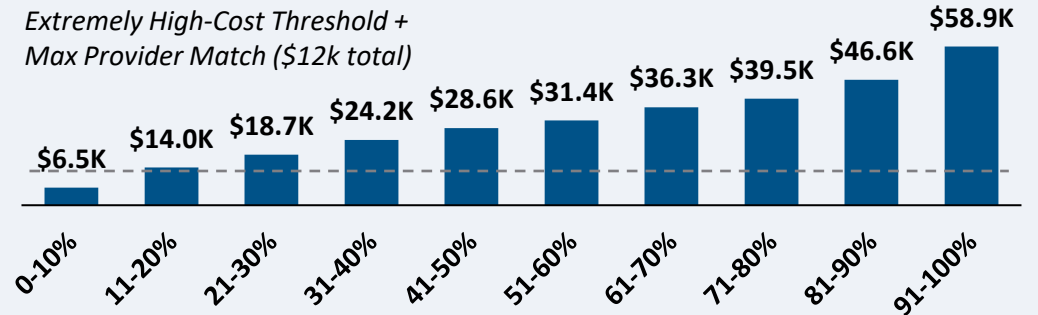
Average Tract Density (Location per sq. Mile)

24	7	6	3	2	2	2	2	1	1
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21.3K Locations

Underserved Locations

Overall Average Cost per Location: \$31,368



Average Tract Density (Location per sq. Mile)

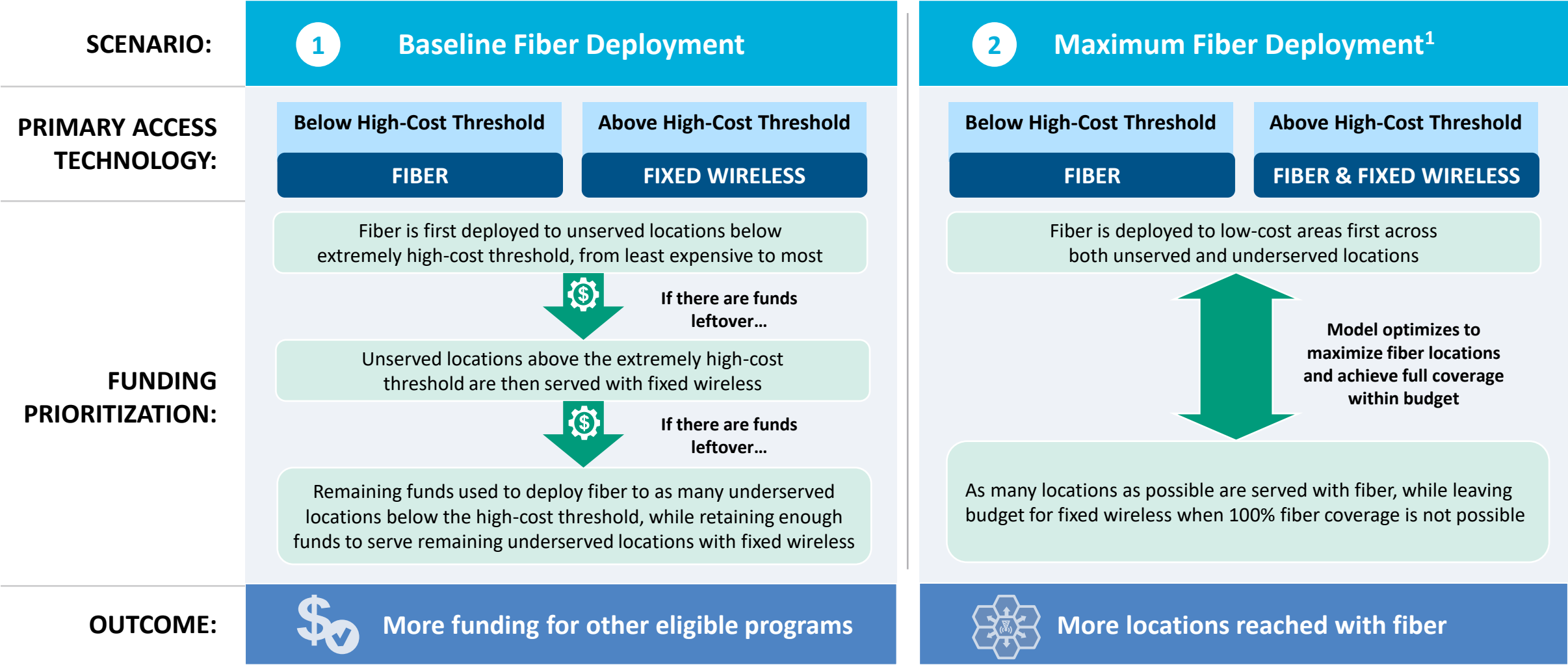
110	13	7	6	5	2	2	2	2	1
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13.6K Locations

Over 10% of locations are estimated to fall below the High-Cost Threshold + Provider Match

1. Chart values are average cost per location for each decile bucket
 Source: Cartesian, FCC National Broadband Map (June 2023 data, released in November 2023)
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Nebraska | Fiber Preferencing Scenarios



1. Scenario 2 deploys fiber beyond the extremely high-cost threshold
 Source: Cartesian
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3 Develop Deployment Scenarios

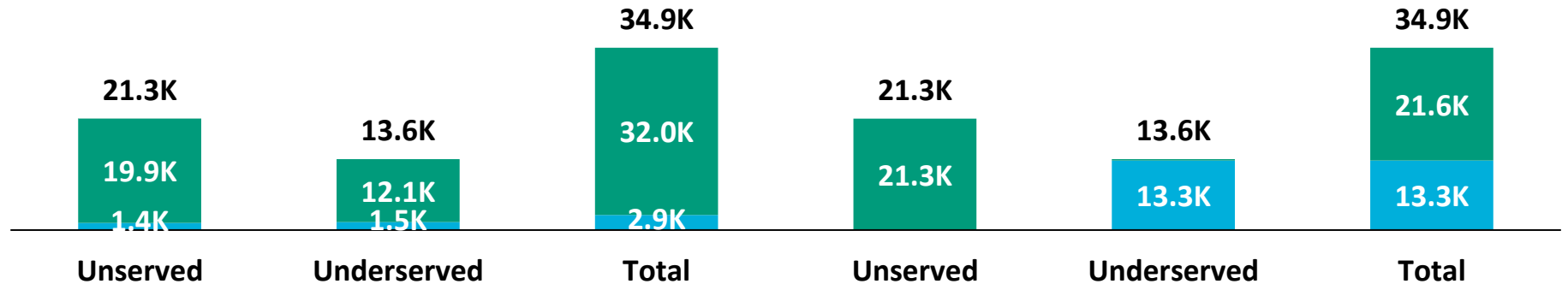
Nebraska | Scenario Analysis Results

SCENARIO:

1 Baseline Fiber Deployment

2 Maximum Fiber Deployment

■ Fixed Wireless
■ Fiber



	Scenario 1	Scenario 2
Capex Required per Locations ¹	\$5,005	\$4,800
BEAD Funds Available to State	\$405M	\$405M
+ Estimated Provider Match	\$104M	\$104M
= Total Available Capital	\$510M	\$510M
- Capex Required to Build	\$175M	\$510M
= Remaining Funds	\$335M	\$--M
% of Locations Reached	100%	100%
% of Locations Reached with Fiber	8%	38%

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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Nebraska | Conclusion



Funding Summary

Nebraska is expected to receive

\$405M in BEAD funding



\$104M in estimated provider matching

We estimate the funding is sufficient to reach all of Nebraska's 34.9k eligible locations with high-speed broadband



Key Findings

Nebraska 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 \$335M additional funds for affordability programs
 - Reaches 8% of locations with fiber
 - Requires 92% to be reached with other tech.
- Exhausts funds without leaving additional funds for affordability programs
 - Reaches 38% of locations with fiber
 - Requires 62% 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

Nebraska | ACA Connects Members

Member Name	
Allo Communications, LLC	Grain Capital
American Broadband	Hanson Communications, Inc.
Applied Communications Technology, Inc.	Hershey Cooperative Telephone Company
Beamspeed	Lict Corp
Blue Valley Telecommunications, Inc.	Nebraska Central Telecom, Inc.
Cable One, Inc.	Nedelco, Inc.
Cable TV Co, Inc.	Nextech, Inc.
Cable TV Of Stanton dba Town And Country Tech	Pinpoint Communications
Cableco, LLC	TDS Telecom
CedarVision, Inc.	Three River Telco
Cencom, Inc.	Vyve
Consolidated Communications, Inc.	West Iowa Telephone Company
Diode Cable Company	Windbreak Cable
Golden West Cablevision, Inc.	



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