



ConnectMT & BEAD Implementation

ETIC September 28th

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Agenda

Overview: Broadband in Montana

BEAD Implementation

Affordability Plans

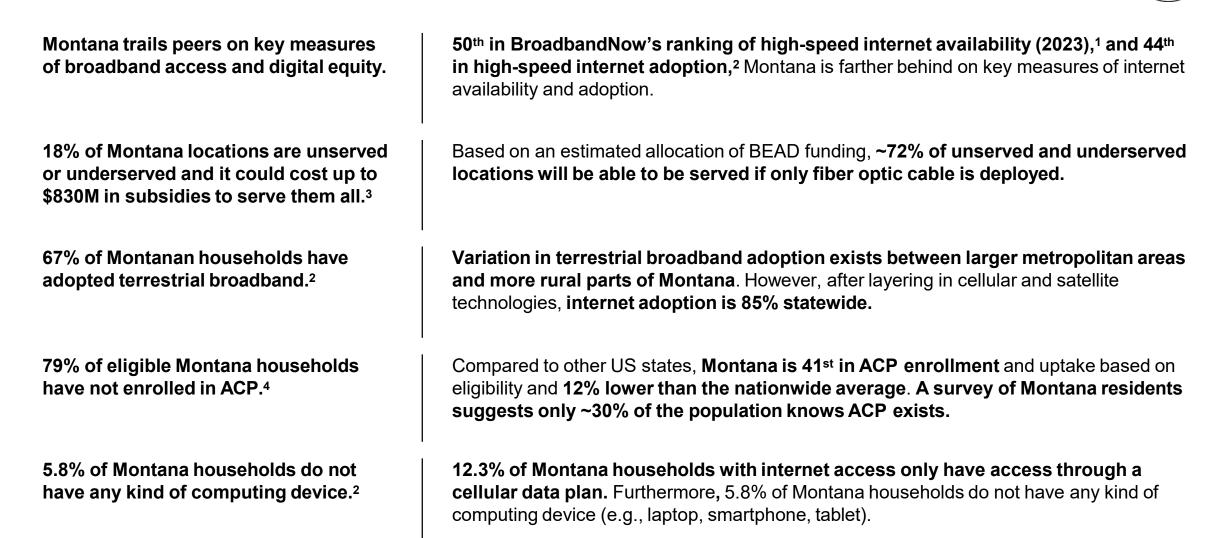


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2 Overview of the current state of broadband in Montana



¹ BroadbandNow; <u>https://broadbandnow.com/Montana</u>

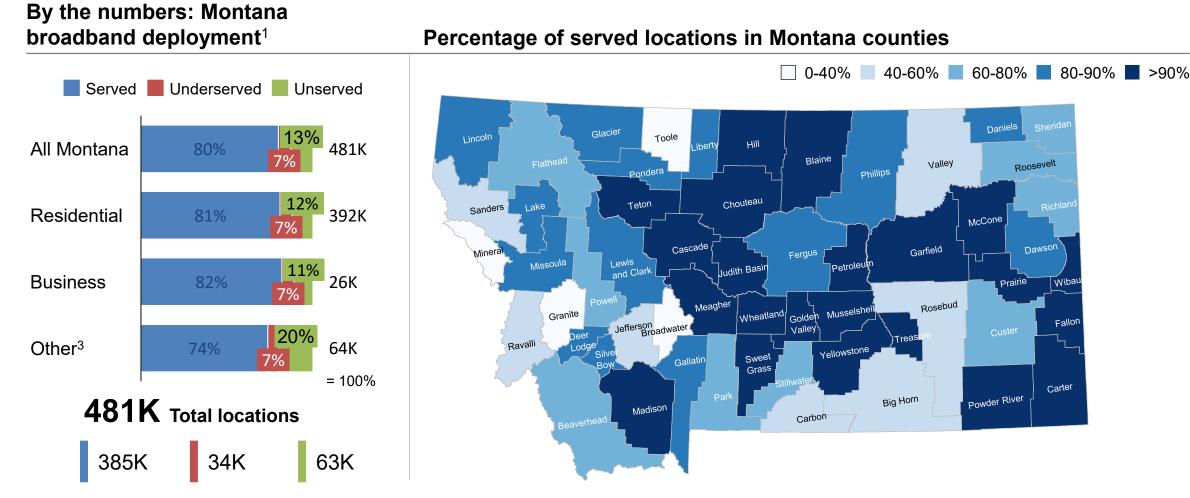
² U.S. Census Bureau, American Communities Survey (ACS), 2021; https://data.census.gov/cedsci/table?q=internet&g=0400000US30&tid=ACSST1Y2021.S2801

³ FCC DATA Maps as of 18 November 2022

⁴ Education Superhighway. https://www.educationsuperhighway.org/no-home-left-offline/acp-data/#dashboard

According to the FCC Broadband Map, 20% of Montana locations are unserved or underserved¹





1.Values for served, underserved, and unserved locations reflect location totals when project areas / locations to be served by RDOF, CAFII, NTIABIP, RUS and Reconnect (up until May 2023) are considered served 2.'Business' includes the land use designations as estimated by the local county assessor information: BUSINESS, INDUSTRIAL, RECREATION

3. Other' includes the land use designations as estimated by local county assessor information: LAND, AGRICULTURE, COMMUNITY, TRANSPORTATION, COMMUNICATION, UNKNOWN, OTHER Source: Service availability based on FCC Broadband Map as of June 2023

Overview of potential BEAD deployment scenarios

Overview of deployment scenarios

What are they?

Why they

matter?

Deployment scenarios are potential options that the State of Montana could pursue to deploy BEAD funding taking into account BEAD NOFO requirements, various technologies, estimated cost, and overall priorities.

Deployment scenarios are important to maximize the impact of federal investment in broadband that accomplishes the following:

- 1. Achieves the broadband connectivity goals for the state of Montana
- 2. Meets the requirements of the BEAD program
- 3. Efficiently utilizes public funds by maximizing private investment



Key considerations

The deployment scenarios laid out in this document are based on available data at the time of analysis.

The deployment scenarios are subject to change based on updated data from the FCC and the Notice of Available Amounts which will determine how much funding is available to the State of Montana.

The deployment scenarios are anticipated to be directionally accurate for the purposes of collecting input on Montana's potential path forward.

Potential deployment scenarios to close the broadband access gap in Montana



Base Scenario	Alternative Scenarios	Considerations	Implications	Next steps
1 Scenario 1 Fiber access to as many unserved as possible	2 Scenario 2 Broadband access for all unserved (mix of technologies)	Achieves BEAD program goals of high-speed internet for all unserved Maximizes fiber deployment, while optimizing use of other technologies Provides service to locations where fiber is not	Underserved will not be upgraded May be less efficient use of funding than upgrading underserved Alternative technologies (fixed wireless, satellite) are less scalable and may require maintenance	In developing the initial proposal Montana will do the following: Weigh the various considerations and implications associated with the deployment scenario
In keeping with the BEAD NOFO, Montana has analyzed the total cost to provide fiber to all Montana	3	economically feasible Achieves BEAD program goals of high-speed	investment in the future Fewer unserved and underserved locations will	archetypes to best meet the needs of its constituents Outline the detailed deployment plan
residents Even when considering the total allocations from BEAD and other funding sources (e.g., RDOF, ARPA, etc.), Montana will likely have a	Scenario 3 Broadband access for all unserved + all underserved (mix of	internet for all unserved Extends federal dollars furthest by employing alternative technologies to maximize benefits for Montanans	receive fiber Alternative technologies (fixed wireless, satellite) are less scalable and may require maintenance investment in the future	and associated grant process
shortfall to provide fiber for all Thus, Montana will explore other scenarios to achieve	technologies)	Provides universal coverage to all, even where fiber is not feasible		

BEAD program goals

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Summary of the potential impact of various deployment 5 scenarios on broadband access in Montana¹

Fiber Fixed Wireless Satellite Locations connected with broadband

EHCT. Estimated cost by Estimated technology mix Estimated technology mix Summary of potential Scenario for unserved locations for underserved locations \$K technology mix, \$M² impact² 360 locations remain Scenario 1 N/A unserved 635 635 100.0% 0% Fiber to as many ~24K locations remain unserved as underserved possible N/A 63.1K Enables all ~63K unserved Scenario 2 (2) \$206K locations to receive 0.5% 8 634 626 99.4% broadband (~400 receive 0% Broadband for 0.1% alternative technologies) all unserved (mix of 63.4K ~24K locations remain N/A technologies) underserved Enables all ~87K un- & Scenario 3 underserved locations to \$151K 1.1% 0.1% 634 98.7% 624 99.8% receive broadband 0.2% Broadband for all 0% unserved + ~800 unserved and ~40 underserved (mix 63.4K underserved locations will 24.0K of technologies) receive alternative technologies

Х

Based on estimated greenfield costs; Assumes potential BEAD allocation of \$635M. Locations to be served by RDOF, CAFII, NTIABIP, and RUS / Reconnect are considered served for this analysis

Satellite cost is estimated at \$881 per location 2.

1.

Source: Service availability per FCC DATA Maps as of 18 November 2022; Cost estimates per CostQuest v5 cost model



Agenda



BEAD Implementation



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1 IIJA BROADBAND FUNDING STREAMS

BEAD

\$42.45B

Broadband Equity, Access & Deployment Program

A program to get all Americans online by funding partnerships between states or territories, communities, and stakeholders to build infrastructure where we need it and increase adoption of high-speed internet.

DIGITAL EQUITY

\$2.75B

Digital Equity Act

Three programs that provide funding to promote digital inclusion and advance equity for all. They aim to ensure that all communities can access and use affordable, reliable high-speed internet to meet their needs and improve their lives.

TRIBAL

\$2.00B

Tribal Connectivity Technical Amendments

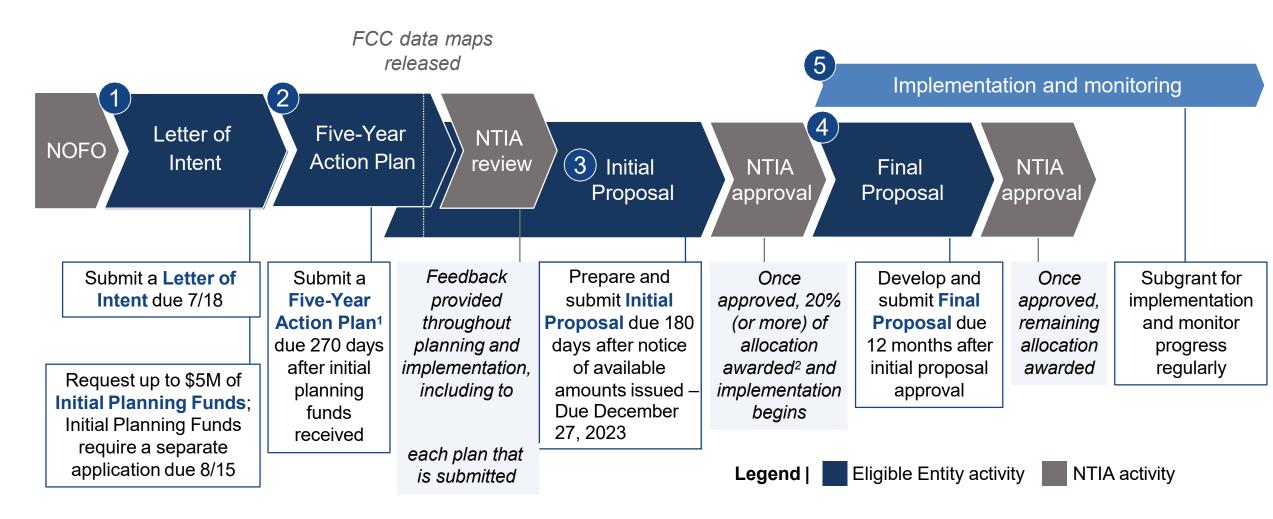
A program to help tribal communities expand highspeed internet access and adoption on tribal lands. MIDDLE MILE

\$1.00B

Enabling Middle Mile Broadband Infrastructure

A program to expand middle mile infrastructure, to reduce the cost of connecting unserved and underserved areas. **BEAD: 5 KEY STEPS**





1. Required for entities that receive initial planning funds 2. Must be used for projects in areas with >80% unserved locations or high poverty areas Note: funding amounts inclusive of all administrative set-asides



Montana's BEAD allocation



\$628.97M

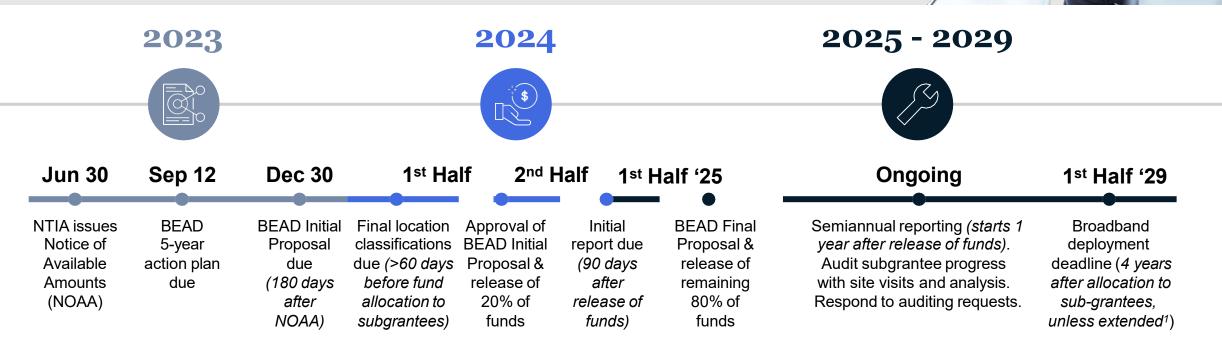
BEAD allocation

On June 26th, NTIA announced the BEAD allocations for all Eligible Entities.

Montana's final BEAD allocation is similar to the originally estimated allocation, which means the planning efforts to date are not significantly impacted or require significant adjustments.

Through development of the Initial Proposal, the Montana Broadband Office (MBO) will update deployment scenarios and potential impact based on the final allocation.

2 BEAD program timeline



 State challenge process
 Implementation of priority BEAD projects (first 20% of funds)

 Grant evaluation
 Implementation of remaining BEAD projects (remaining 80%)

1. "An Eligible Entity may extend the four-year network deployment deadline for subgrantees by not more than one year if: (1) the subgrantee has a specific plan for use of the grant funds, with project completion expected by a specific date not more than one year after the four-year deadline; (2) the construction project is underway; or (3) extenuating circumstances require an extension of time to allow the project to be completed." cit. BEAD NOFO pg. 18

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Focus for today

Draft Upcoming CAC Agendas

October 11th

IPV2:

- Subgrantee process
- Workforce readiness
- Minority-owned / women-owned enterprises
- · Cost and barriers reduction
- · Low-cost service option
- Middle class affordability
- 20% funding allocation
- Public comment period

November 7th

IPV2 Approval

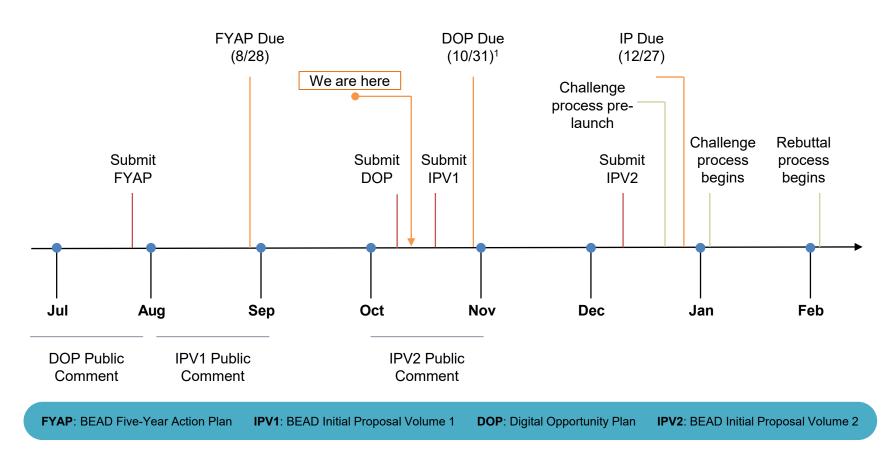
December 6th

Path forward for BEAD and Digital Opportunity

BEAD timeline and draft agendas

As of 27 September 2023

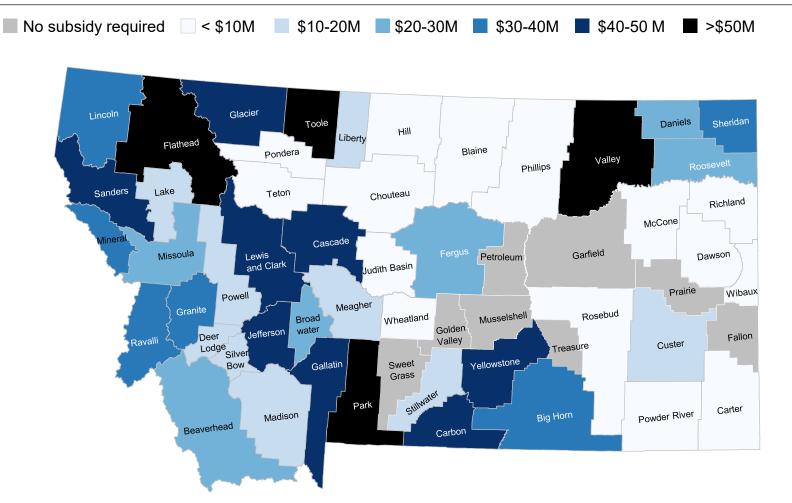
Timeline of key BEAD milestones



1 The MBO has applied for a no -cost extension on the DOP until 24 February 2024, which is pending approval by NTIA

It may take up to \$1.21B in subsidies to reach all un- and underserved locations with fiber

Total subsidy required to serve by county



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\$844M - \$1.21B¹

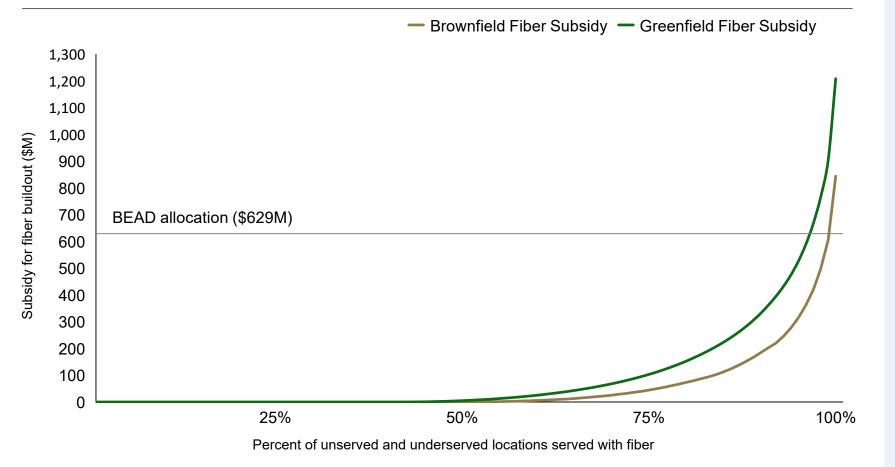
Total subsidies needed to deploy fiber to all underserved and unserved locations in Montana.

Assumes:

- Aerial deployment
- Other federal awards counted as served (RDOF, RUS, CAF II, NTIABIP, Reconnect up until May 2023)
- A subgrantee match estimate based on the applicant's expected business case
- Range dependent on estimated brownfield or greenfield costs, respectively

1. The high and low ends of this range reflect greenfield and brownfield fiber deployment, respectively, to all un- and underserved locations in Montana. Source: Service availability based on FCC Broadband Map as of June 2023; Cost estimates based on CostQuest Associates cost model (Jan 2023) DOCUMENT INTENDED TO PROVIDE INSIGHT BASED ON CURRENTLY AVAILABLE INFORMATION FOR CONSIDERATION AND NOT PRESCRIBE SPECIFIC AC TION In a 100% greenfield fiber buildout scenario, ~10% of the un- & underserved locations may account for ~72% of total subsidy needed

Estimated Montana fiber subsidy cost curve for unserved and underserved locations¹, \$M



Estimates for fiber subsidy required assumes that locations connected by RDOF, RUS, CAF II, NTIABIP, and Reconnect (up to May 2023) are considered served. Subsidy
required by location represents the NPV investment required for the location, estimated future cash flows and estimated ISP investment for each location
Source: Service availability based on FCC Broadband Map as of June 2023; Cost estimates based on CostQuest Associates cost model (Jan 2023)

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Key Takeaways

A relatively small number of locations are driving a disproportionate amount of the cost

Estimates show that the **last 1%** of locations account for:

- 25% of total cost, with an average subsidy per location of \$313K for greenfield deployment
- 28% of total cost, with an average subsidy per location of \$248K for brownfield deployment

These locations likely represent some of the most remote locations in Montana and may have additional barriers to deployment (e.g., topography)

BEAD subgrantee process requirements (1 of 3)



Key differences from ARPA

None Very limited Limited

Element of	None Very limited	d 🌑 Limited
process	Description of requirement	Flexibility
Allocation requirements	Prioritize based on Unserved, Underserved, and CAIs in accordance with eligible uses of BEAD funding while ensuring that 100% of unserved locations will be reached	•
and process design	Deploy to CAIs rather than choosing non-deployment uses of funds	
ucsign	Prioritize projects in high poverty areas if funding is limited	
	Design safeguards that ensure a fair process	
	Prioritize high-poverty areas in case of a funding shortfall	
	Ensure no classes of applicants (e.g., local governments, public-private partnerships) are excluded	
	Make funding available for projects that meet the definitions of "unserved service projects" and "underserved service projects" under federal law, and prioritize Unserved Service Projects to ensure coverage of all unserved locations	•
	Either prescribe project areas or incorporate deconflicting step	
	Include middle-mile if preferred	
	Deploy to multi-family buildings, prioritizing unserved and low-income households where applicable	٠
	Choose any competitive process	٠
	Invite broad participation in the development of the subgrantee process from women- and minority-owned firms	
	Conduct outreach to potential applicants regarding locations for which no applications were received, only after the application deadline has passed	٠

BEAD subgrantee process requirements (2 of 3)

Floment of



Key differences from ARPA

None Very limited Limited

process	Description of requirement	Flexibility
Application requirements	Require information about any other public funding requested	
	Require ownership information	
	Require managerial and financial competence as well as technical and operational capacity in subgrantees	
	Require financial qualifications such as audited financial statements	
	Require managerial competence including exhibits such as resumes and org charts	
	Require technical capability such as project timeline and network design	
	Require certification of operational capability such as operating or financial reports	
Scoring	Ensure that where only one project has been proposed and meets requirements, that is the default winner	
requirements	Ensure that fiber projects exceeding the Extremely High Cost Per Location Threshold may but do not have to be preferred where projects using other technologies have been proposed	•
	Ensure that where two or more projects have been proposed, once priority has been given to fiber projects, the state gives >75% of total benefits (e.g., weight, points) to:	•
	- minimal BEAD funding, by incentivizing a match of >25% from subgrantees	
	- broadband affordability	
	- fair labor practices	
	Consider speed to deployment as a secondary criterion for fiber projects and additionally consider network speed for non-fiber projects	
	Consider other secondary criteria for fiber and non-fiber projects, e.g., equitable workforce, open access, tribal coordination considerations, including additional secondary criteria developed by the state	•
Source: BEAD NOFO	Consider workforce development goals	• 17

BEAD subgrantee process requirements (3 of 3)

Element of



Key differences from ARPA

None	Very limited	Limited
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process	Description of requirement	Flexibility
Compliance requirements	Require Buy America compliance	•
	Require network capabilities, speed and latency to meet set standards	
	Require interspersed conduit access points for interconnection by other entities	•
	Require consumer protections e.g., no caps on data usage, reasonable and non-discriminatory terms	•
	Require Middle-Mile subgrantees to allow just, reasonable and nondiscriminatory interconnection for other providers	Ű
	Require the subgrantee, if no longer able to provide service, to sell to another provider that will meet BEAD commitments	
	Require compliance with non-discrimination laws	
	Require public awareness campaigns meeting specific requirements	
	Require a cyber risk management plan	Ö
	Require a supply chain risk management plan	•
	Require compliance with provisions such as non-discrimination in construction contracts, including non-discrimination on religious grounds	•
	Require compliance with labor laws	
	Ensure small, women- and minority-owned businesses are used where possible	
	Require biannual submission of reports to be provided to NTIA on request	
	Require subgrantee agreements to make deployment feasible	
	Require network outage levels to meet set standards	•

The Initial Proposal includes 20 requirements

Initial Proposal Volume 1 (Challenge Process)	BEAD NOFO Requirement
1.1 Federal funding	3
1.2 Eligible broadband serviceable locations	5
1.3 Community anchor institutions	6
1.4 Challenge process	7

Public Comment Period	Date
1.5 Volume I	Complete
2.17 Volume II	9/28-10/28

In guidance clement Details follow	TO THE REAL OF
Initial Proposal Volume 2 (Grant Program)	BEAD NOFO Requirement
2.1 Objectives	1
2.2 Existing efforts	2
2.3 Stakeholder engagement	4
2.4 Deployment subgrantee process	8
2.5 Non-deployment subgrantee process	9
2.6 Direct implementation	10
2.7 Labor standards	11
2.8 Workforce readiness	12
2.9 Minority- and women-owned enterprises	13
2.10 Cost and barriers reduction	14
2.11 Climate Assessment	15
2.12 Low-cost service option	16
2.13 Middle class affordability	20

Details follow

IP guidance element

20% funding allocation

Certification

Existing laws and requirements

2.14

2.15

2.16

Source: BEAD Initial Proposal Guidelines

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2.4: Project area design principles and preliminary approach

MBO's Project Area guiding principles

Achieve BEAD goal of reaching all unserved and underserved	The MBO seeks to design an approach to project areas that will increase probability of achieving the BEAD and State goal to serve all un- and underserved
Ensure objectivity during subgrantee	The MBO seeks to design an approach to project areas that will:
process	Promote a fair & competitive bidding process
	 Ensure impartiality to providers
	Support an objective selection of awardees
Minimize deconfliction given the compressed timeline	The MBO seeks to design an approach to project areas that will enable like to like comparison of overlapping project areas and facilitate a straightforward deconfliction process



Planned approach

To achieve these core principles, the MBO plans **to allow providers to define project areas** using existing geographic units

Geographic units

The MBO plans to designate CBGs as the geographic units of project areas

As pertinent and logical, the State may break some of the CBGs up into one or more smaller areas in a way that accounts for the distribution of unand underserved BSLs

Project area design

Providers would use CBGs to build their desired project areas

Subgrantee process design complications

Issue	Considerations
All unserved locations must be served	 Funding must be awarded "in a manner that ensures the deployment of service to all unserved locations."¹ At least 80% of BSLs served by a project must be un- or underserved.
Priority projects must use fiber	 Priority Broadband Projects are defined as projects that utilize fiber and should be funded first. BEAD guidance distinguishes between priority (fiber) and non-priority (alternative technology) projects (e.g., different scoring and prioritization rules), and it is unclear if or how hybrid-technology projects could be used.
Montana may have a BEAD funding shortfall	 Current estimates indicate that it would take \$1B+ to deploy fiber to all unserved locations, and \$1.2B+ to deploy fiber to all unand underserved locations.³ Given the state's allocation of ~\$629M², there may be a significant funding shortfall. The subgrantee process will require careful budgeting to stretch the funding as far as possible.
BEAD outlay must be minimized	 Minimal BEAD program outlay is a priority criteria in the subgrantee selection process. However, many locations may fall in high-cost areas, which will require significant investment to serve.
Satellite is costly and not preferred under BEAD guidelines	 Satellite is only permitted when reliable technologies are not financially feasible. The monthly fees for satellite service are costly to the customer, and they may be unaffordable for some households without a subsidy.

1. Source: <u>BEAD Initial Proposal Guidance</u>, and <u>BEAD NOFO</u>, page 41

2. NTIA Internet for All

3. CostQuest Associates cost model (Jan 2023)

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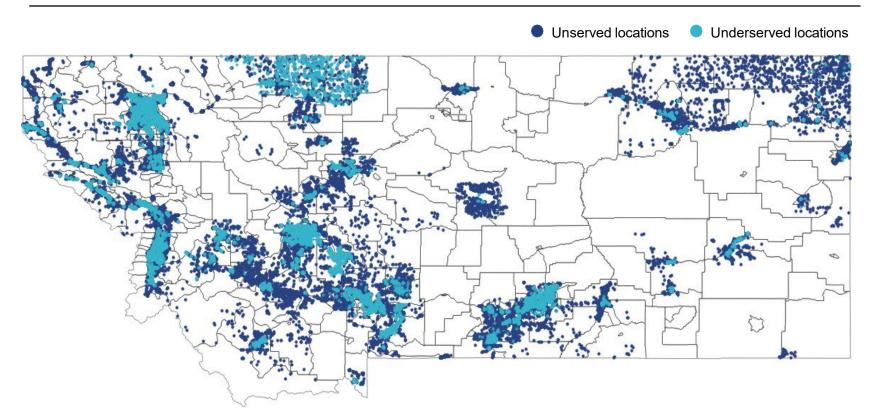
BEAD Initial Proposal Volume 2 key components and questions

Element	Question
Prequalification	Should MBO prequalify a subset of providers before the launch of the subgrantee process?
Extremely High Cost	When in the subgrantee process should MBO determine its preliminary and finalized EHCPLT?
Per Location Threshold (EHCPLT)	3 Should MBO notify providers of its EHCPLT during the subgrantee process?
Project area design	4 What will be the foundational unit (e.g., CBG, county, MSA, etc.) that providers will bid on?
	6 How much freedom will providers have to construct a project area?
	6 How should the BEAD funding be allocated to different parts of the state?
Bidding	Will providers be able to submit multiple bids for the same foundational unit (i.e., in a project area permutation)?
Scoring	8 What should be the criteria on MBO's subgrantee scorecard? How should MBO represent guidance from SB531 in the scoring criteria?
	What weight should be assigned to each criteria?
	10 How can providers earn the maximum amount of points for a given criteria?
Application review	1 How will the applications be reviewed?
	12 How should MBO deconflict bids with overlapping project areas?
Affordability	13 How will the MBO design its low-cost plan?
	14 How will the MBO address middle -class affordability?
Potential challenges	15 How can the MBO address potential challenges posed by the IPV2 guidance?

Un- and underserved locations in Montana Census Block Groups (CBGs)

As of 24 August 2023

Map of Montana's unserved and underserved BSLs across CBGs



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Montana has 96,662 un- and underserved locations in 532 CBGs

Source: FCC BDC. National Broadband Map



Subgrantee selection criteria for priority¹ projects

Collectively worth at least 75% Collectively worth no more than 25%

Primary criteria (required)

Minimal BEAD program outlay

- Total BEAD funding to complete the project, including projected cost and proposed match (no less than 25% of the project cost, absent a waiver)
- Points awarded must increase as BEAD outlay decreases
- Consider cost per location while accounting for network design factors that could make a project more expensive, but also more scalable or resilient

Affordability

 Commitment to provide the most affordable total price to the customer for 1/1 Gbps

Fair labor practices

 Demonstrated record of and plan to comply with federal labor and employment laws, or specific, forward-looking commitments to strong labor and employment standards for new entrants

Secondary criterion (required)

Speed to deployment

 Subgrantees must deploy the planned broadband network and begin providing services to each customer that desires broadband services within the project area within 4 years after receiving the subgrant Equitable workforce development and job guality

Additional prioritization

factors (optional)

 Consider the subgrantee's enforceable commitments with respect to advancing equitable workforce development and job quality objectives

Open access

 Promote subgrantees' provision of open access wholesale last-mile broadband service for the life of the subsidized networks, on fair, equal, and neutral terms to all potential retail providers.

Local and tribal coordination

• Reflect subgrantees; support from the local and/or Tribal Government with oversight over the served location(s)

Additional criteria that align with the Eligible Entity and local priorities may be developed

1. The term "Priority Broadand Project" means a project that will provision service via end-to-end fiber-optic facilities to each end user premises. <u>BEAD NOFO</u>, p. 14.; Source: <u>BEAD Initial Proposal Guidance</u> DOCUMENT INTENDED TO PROVIDE INSIGHT BASED ON CURRENTLY AVAILABLE INFORMATION FOR CONSIDERATION AND NOT PRESCRIBE SPECIFIC ACTION



Subgrantee selection criteria for non-priority projects

Collectively worth at least 75% Collectively worth no more than 25%

Primary criteria (required)

Minimal BEAD program outlay

- Total BEAD funding to complete the project, including projected cost and proposed match (no less than 25% of the project cost, absent a waiver)
- Points awarded must increase as BEAD outlay decreases
- Consider cost per location while accounting for network design factors that could make a project more expensive, but also more scalable or resilient

Affordability

 Commitment to provide the most affordable total price to the customer for 100/20 Mbps

Fair labor practices

 Demonstrated record of and plan to comply with federal labor and employment laws, or specific, forward-looking commitments to strong labor and employment standards for new entrants

Secondary criteria (required)

Speed to deployment

 Subgrantees must deploy the planned broadband network and begin providing services to each customer that desires broadband services within the project area within 4 years after receiving the subgrant

Speed of network and other technical capabilities

- Weigh the speeds, latency, and other technical capabilities of the proposed technologies
- Additional weight should be awarded to subgrantees that propose the use of technologies that are easier to scale, require lower future investment, and whose capital assets have longer useful lives

Additional prioritization factors (optional)

Equitable workforce development and job quality

• Consider the subgrantee's enforceable commitments with respect to advancing equitable workforce development and job quality objectives

Open access

 Promote subgrantees' provision of open access wholesale last-mile broadband service for the life of the subsidized networks, on fair, equal, and neutral terms to all potential retail providers.

Local and tribal coordination

 Reflect subgrantees; support from the local and/or Tribal Government with oversight over the served location(s)

Additional criteria that align with the Eligible Entity and local priorities may be developed

ALL DEPARTMENTS

Details follow

SB531 Section	Language	Representation in scoring criteria
Section 6 (4) (a)	Whether the proposed project area serves unserved or underserved areas, with unserved areas receiving greater weight	Additional prioritization factor
Section 6 (4) (b)	The number of households, businesses, farms, ranches, and community anchor institutions served	Additional prioritization factor
Section 6 (4) (c)	Whether the proposed project qualifies as an extremely high cost per location threshold as defined by the department and approved by the national telecommunications and information administration or is a high-cost area as defined by the NTIA	Reflected in Section 6 (5)
Section 6 (4) (d)	The length of time the provider has been providing broadband service in the state	Additional prioritization factor
Section 6 (4) (e)	The extent to which government funding support is necessary to deploy broadband service infrastructure in the proposed project area	Primary criterion
Section 6 (4) (f)	The service speed thresholds proposed in the proposal and the scalability of the broadband service proposed to be deployed with higher speed thresholds receiving greater weight	Secondary criterion for non-priority projects
Section 6 (4) (g)	The provider's ability to leverage its own nearby or adjacent broadband service infrastructure to facilitate the cost-effective deployment of broadband service infrastructure in the proposed project area	Reflected in Section 6 (4) (j)
Section 6 (4) (h)	The estimated time in which the provider proposes to complete the proposed project	Secondary criterion
Section 6 (4) (i)	Any other factors the department, as recommended by the commission, determines to be reasonable and appropriate, consistent with the IIJA, Public Law 3 117-58, and the NTIA	CAC has not directed that any additional factors be included
Section 6 (4) (j)	Broadband service providers who have broadband service infrastructure already deployed in the project area	Additional prioritization factor
Section 6 (5)	High-cost areas must be considered for services to the extent terrestrial service is economically viable	Additional prioritization factor
Section 6 (6)	The department shall set a reasonable timeframe to complete projects selected for funding approval. The department may, in consultation with the provider, set reasonable milestones regarding this completion. The department shall create procedures including penalties associated with any failure to comply with the provisions of the awarded contract without reasonable cause	Secondary criterion

1. Montana Senate Bill No. 531

DOCUMENT INTENDED TO PROVIDE INSIGHT BASED ON CURRENTLY AVAILABLE INFORMATION FOR CONSIDERATION AND NOT PRESCRIBE SPECIFIC ACTION Source: BEAD Initial Proposal Guidance and SB531

Deployment subgrantee selection: SB531 guidance¹

Agenda



BEAD Implementation

Affordability Plans



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Output Low-cost plan details and purpose

Issue	IP Guidance
Low-cost plan purpose	 The purpose is to "ensure that all residents will have access to affordable broadband service options."
NTIA example low-cost plan	 "The Eligible Entity is strongly encouraged to adopt the example low-cost broadband service option."
ACP participation	 "Eligible Entities must ensure that services offered over BEAD Funded Networks allow subscribers in the service area to use the FCC's ACP." States are required to "certify that all subgrantees will be required to participate in the ACP or any successor programs," and indicates a preference—but not a requirement—for low-cost plans that allow the application of the ACP subsidy.

13 Low-cost plan elements and example

Element	Definition	NOFO guidance example
Cost	All recurring and non-recurring charges	 \$30/month for those who do not reside on Tribal Lands \$75/month for those who do reside on Tribal Lands
Basic service characteristics	 Download and upload speeds Latency Any limits on usage or availability, such as data caps Any material network management practices, and reliability 	 Provides the greater of: 100/20 Mbps, or the fastest speeds the infrastructure is capable of if <100/20 Mbps, or The performance benchmark for fixed terrestrial broadband service established by the Federal Communications Commission pursuant to Section 706(b) of the Communications Act of 1934, as amended Provides typical latency measurements of no more than 100 milliseconds Is not subject to data caps, surcharges, or usage-based throttling; and is subject to the same acceptable use policies offered to the subgrantee's other home subscribers
Affordable connectivity benefits application	 Description of whether a subscriber can use the Affordable Connectivity Benefit subsidy toward the plan's rate 	 ACP subsidy can be provided to the service price Subgrantees are required to participate in the ACP or any successor program, and eligible subscribers can apply the subsidy to the proposed service option
Available technical upgrades	 Description of whether there are any provisions regarding the subscriber's ability to upgrade to any new low-cost service plans offering more advantageous technical specifications 	 If the provider later offers a low-cost plan with higher speeds, existing low-cost subscribers must be permitted to upgrade to the new low-cost plan at no cost

Source: BEAD Initial Proposal Guidance

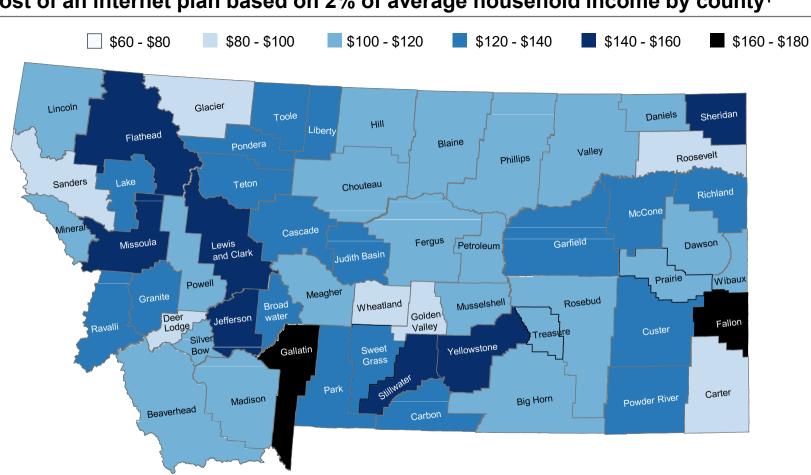
Middle class affordability plans

Initial Proposal	 Describe a middle-class affordability plan that details how high-quality broadband services will be made available to all
and BEAD	middle-class families in the BEAD-funded network's service area at reasonable prices
NOFO	 The NOFO notes that some states might assign especially high weights to selection criteria relating to affordability and/or
instructions	open access in selecting BEAD subgrantees
	 Eligible Entities will be required to ensure that services offered over Funded Networks allow subscribers in the service area to utilize the ACP

Example plan elements

- Require providers to offer low-cost, high-speed plans to all middle-class households
- Providing consumer subsidies if surplus funds are available
- Using regulatory authority to promote structural competition (e.g., eliminating barriers to entry, opening access to multi-dwelling units, or promoting alternative technologies)
- Promoting consumer pricing benchmarks and / or establishing a system of continued monitoring and public reporting to allow customers to determine whether rates are reasonable

Cost of an internet plan based on 2% of average 13 household income by county



Cost of an internet plan based on 2% of average household income by county¹

Key takeaways

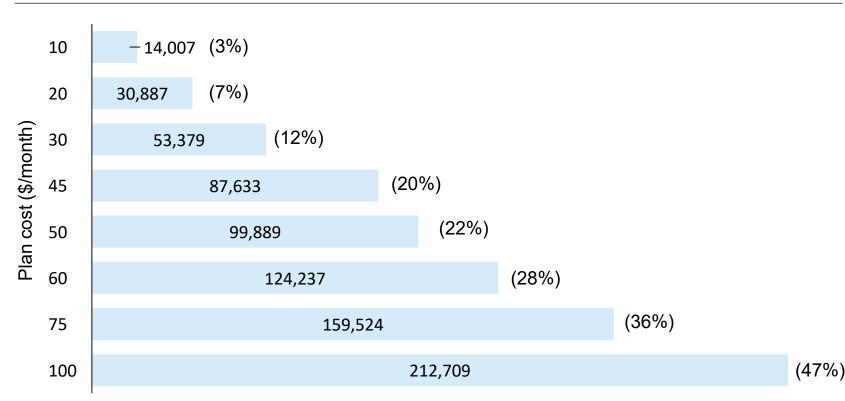
2% of average household income by county is > \$100/month for 50 out of Montana's 56 counties

The average cost of an internet plan that represents 2% of average household income by county is \$121/month

According to the Broadband Commission for Sustainable Development, internet that costs more than 2% of monthly income may be unaffordable for some 1. Source: American Community Survey, U.S. Census, https://data.census.gov/table?g=040XX00US30\$0500000&tid=ACSST5Y2021.S1901

2.12: Households in MT that may have to pay >2% of income on broadband at various price points

Households that may have to pay >2% of income on broadband for various plan prices¹



Number of households (% of households) for which plan price exceeds 2% of income²

- 1. According to the Broadband Commission for Sustainable Development, internet that costs more than 2% of monthly income may be unaffordable for some.
- 2. Analysis assumes straight-line income distribution between intervals \$0-\$10k, \$10k-\$15k, \$15k-\$25k, \$25k-\$35k, \$35k-\$50k, \$50k-\$75k, \$75k-\$100k, \$100k-\$150k, \$150k-\$200k, and \$200k and up.
- 3. Broadband targets 2025. (2022, March 2). Broadband Commission for Sustainable Development. https://www.broadbandcommission.org/broadband-targets/

DOCUMENT INTENDED TO PROVIDE INSIGHT BASED ON CURRENTLY AVAILABLE INFORMATION FOR CONSIDERATION AND NOT PRESCRIBE SPECIFIC AC TION

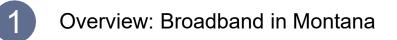


According to the Broadband Commission for Sustainable Development, internet that costs more than 2% of monthly income may be unaffordable for some

Based on the MBO's analysis, broadband would represent >2% of income for:

- 3% of households at \$10/month
- ~20% of households at \$45/month
- ~36% of households at \$75/month
- ~47% of households at \$100/month

Agenda



BEAD Implementation

Affordability Plans

2

3

4

Digital Opportunity

1 IIJA BROADBAND FUNDING STREAMS



BEAD

\$42.45B

Broadband Equity, Access & Deployment Program

A program to get all Americans online by funding partnerships between states or territories, communities, and stakeholders to build infrastructure where we need it and increase adoption of high-speed internet.

DIGITAL EQUITY

\$2.75B

Digital Equity Act

Three programs that provide funding to promote digital inclusion and advance equity for all. They aim to ensure that all communities can access and use affordable, reliable high-speed internet to meet their needs and improve their lives.

TRIBAL

\$2.00B

Tribal Connectivity Technical Amendments

A program to help tribal communities expand highspeed internet access and adoption on tribal lands. MIDDLE MILE

\$1.00B

Enabling Middle Mile Broadband Infrastructure

A program to expand middle mile infrastructure, to reduce the cost of connecting unserved and underserved areas.

Digital Opportunity Program overview

Summary: Three programs that provide funding to promote digital inclusion and advance equity for all. They aim to ensure that all communities can access and use affordable, reliable high-speed internet to meet their needs and improve their lives.

Funding Overview

Program	National	MT Allocation
State Planning	\$60M	\$600K
State Capacity Grant (formula)	\$1.44B	TBD
Competitive program	\$1.25B	N/A ¹

Key Considerations

- Current planning efforts will inform the State Capacity Grant Application (Formula funding)
- Program will cover a period of 5 years
- Funding will be provided on an annual basis
- Detailed information on the application for funds has not yet been released

1. The Digital Equity Act Competitive Grant Program will be run by the NTIA and will select sub-recipients directly through a competitive process.

Potential digital opportunity program goals



Vision statement: To narrow the digital divide in support of Montana's economic, workforce, health, and educational goals by ensuring reliable, affordable internet access for all Montanans

Area	Program goals
Broadband Availability & Affordability	Ensure all Montana residents have access to affordable internet and necessary devices in their homes, schools, libraries, and businesses irrespective of their income level
Online Accessibility & Inclusivity	Reduce the digital divide among all Montana residents by increasing broadband adoption by covered populations and increasing access to online resources for all residents
Digital Literacy	Build digital skills to enhance broadband use through programs and partnerships with community stakeholders
Device Availability & Affordability	Reduce the digital divide among Montana residents by ensuring widespread access to internet-capable devices Reduce the digital divide among state agencies by ensuring adequate internet-capable device inventory
Online Privacy and Cyber-security	Ensure all Montana residents have access to internet that meets online privacy and cybersecurity standards

1. Sensitive information defined in "Fact Sheet: The FCC Adopts Order to Give Broadband Consumers Increased Choice Over Their Personal Information,"

Potential avenues to improve digital opportunity

BEAD requirements

Potential focus areas

Existing efforts

Access	A Connect the unserved: Last-mile and associated middle-mile deployment of broadband technologies to areas without service of at least 25/3	
	B Upgrade the underserved: Deploying and/or upgrading technologies to areas with service below 100/20	
	O Invest in community anchor institutions: Ensure reliable high-speed access at CAIs or identify opportunities in non-traditional CAIs	
Affordable	D Increase ACP uptake: Educate, support & encourage uptake among eligible subscribers	
ַרַיַּד subscripti ons	E Subscription subsidies: Provide additional subsidies to further reduce broadband cost	
	P Offer low-cost plans: Partner with ISPs to develop and promote low-cost high-speed internet plans	
Devices	G CAI loan programs: Allow Montanans to rent devices for free or low-cost from CAIs	Ø
എ access	CAI access points: Create device access terminals in CAIs, taking advantage of the high-speed broadband and existing community access	
	Device subsidies: Provide direct subsidies to purchase internet-capable devices	
	Through strategic partnerships: Working with businesses or community organizations, share device funding and distribution responsibilities, negotiate bulk rates with device manufacturers	
Digital	C Develop digital skills curricula: Deploy training programs through state entities and targeted industries	
) س _ت literacy	Fund targeted training programs: Upskill individuals through classes and training programs, with potential focus on Covered Populatoins (e.g., aging individuals, individuals in rural areas, veterans)	
	M Stand-up digital navigator programs: Deploy navigators in communities to develop specific understanding of barriers in community, and coordinate resourcing as needed	37

Montana Broadband Office (MBO) Points of Contact / Key Dates



Website: <u>Home (mt.gov)</u>

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Megan Grotzke	DOA, Communications Director
Heather Mills	Engineering / Compliance Support
Mitch Hergett	Engineering / Compliance Support
Anthony Curcio	Outreach / Grants Support
Samual Seong	Outreach / Grants Support

Key Dates

Commission Meetings:

- September 6th, 10am 3pm
- October 11th, 10am 1pm
- November 7^{th,} 10am 1pm
- December 7th, 10am 1pm

Deadlines:

- IPV1 Public Comment Due: September 2nd
- IPV2 Due to NTIA: December 27th