



Department of  
Development

BroadbandOhio

An aerial photograph of a rural town in Ohio, showing a mix of residential houses, barns, and green fields. A road winds through the center of the town. The image is framed by a white diagonal line that separates it from the blue geometric shapes at the bottom of the cover.

# State of Ohio Initial Proposal, Volume II Broadband Equity, Access, and Deployment (BEAD) Program

Approved by NTIA - November 2024

An abstract graphic at the bottom of the cover depicting a network of glowing blue fiber optic cables. The cables are shown as bright blue lines with circular nodes at various points, creating a sense of connectivity and data flow. The graphic is set against a dark blue background and is partially overlaid by white diagonal lines.

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# Introduction

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BroadbandOhio has drafted the following document to meet the requirements for Volume 2 of the Broadband Equity, Access and Deployment (BEAD) Initial Proposal:

- Requirement 1 – Outline of long-term objectives for deployment, equity, economic growth and job creation
- Requirement 2 – Identification and outline supporting and coordinating with local, Tribal and regional in planning and ongoing deployment efforts
- Requirement 4– Description and certification of local coordination
- Requirement 8 – Detailed description of deployment subgrantee selection, including:
  - Description of subgrantee selection and scoring approach
  - Definition of project areas where projects will be solicited and description of how universal coverage will be insured in subsequent funding rounds
  - Outline of process for identifying the Extremely High Cost Per Location Threshold and how the process will be used in subgrantee selection
  - Description of how Ohio will ensure prospective subgrantees meet minimum requirements outlined in the BEAD NOFO
- Requirement 9 - Description of fair and open non-deployment subgrantee selection
- Requirement 10 - Description of initiatives that BroadbandOhio will implement without selecting a subgrantee and relevant reasoning

- Requirement 11 - Description of how Ohio will integrate labor standards and protections into requirements of prospective subgrantees
- Requirement 12 - Description of how Ohio and subgrantees will ensure an available, diverse, and highly skilled workforce
- Requirement 13 - Description and certification of how Ohio will recruit, use and retain minority businesses, women-owned business enterprises (WBEs), and labor surplus area firms
- Requirement 14 - Identification of steps to reduce costs and barriers to deployment
- Requirement 15 - Description of Ohio’s climate threats and proposed mitigation methods
- Requirement 16 - Description of low-cost service options and certification that all subgrantees will participate in the Affordable Connectivity Program or any successor program
- Requirement 17 - Description of the planned use of the 20 percent of total funding allocation and certification that Ohio will adhere to relevant BEAD program requirements
- Requirement 18 - Description of BroadbandOhio’s regulatory approach, identifying which relevant laws will or will not be waived
- Requirement 19 - Certification of Ohio’s intent to comply will requirements of the BEAD program and description of subgrantee accountability procedures
- Requirement 20 - Description of a middle-class affordability plan

During the public comment period held October 23 – November 22, 2023, 37 commenters provided feedback on the draft BEAD Initial Proposal, Volume II. A summary of those comments and BroadbandOhio’s response is provided in section “Public Comment” in the revised draft Initial Proposal, Volume II (see 2.13.1). Based on

the feedback received, the following modifications have been made to the revised draft:

- o (Requirement 8) Subgrantee selection – Reference Cost: Commenters requested that points be provided for bids above the reference cost. The approach has been modified so that if all bids are above the reference cost, then the lowest bid will receive points (see 2.4.2).
- o (Requirements 11, 19) Labor standards and protections – Disclosures: Aligned to a commenter requests:
- o Applicants will be required to disclose information on training and safety, job quality, local hire and targeted hire, accountability and subcontracting practices, and ongoing operational workforce (see 2.7.1)
- o Subgrantees will be required to disclose from where their workforce is hired, what trainings the workforce has taken, and demographic information (i.e., gender, race, or ethnicity) of the workforce (see 2.16.2).
- o (Requirement 16) Low-cost service option: Commenters expressed concern around maintaining a fixed price for the 4 years following completion of the build, and concerns related to determining eligibility and verification of eligibility should ACP not be renewed. To address these concerns, BroadbandOhio has modified the low-cost service option as follows:
  - o The price of the low-cost service option can be adjusted annually with the consumer price index (see 2.12.1).
  - o In the event that ACP is not renewed, the Broadband Expansion Program Authority will make a determination as to who is eligible for the low-cost option in Ohio and the low-cost option will apply to those residents. BroadbandOhio and Department of Development will work to ensure there is a mechanism to verify eligibility (see 2.12.1).
  - o All remaining requirements of the low-cost service have not been modified.
- o (Requirement 19) Subgrantee accountability procedures – Distribution of funding to grantees: Commenters requested that Ohio deem all awards fixed amount subawards. Aligned to this request and to the ORBEG rules, reimbursement will occur on a fixed award subgrant basis, following the latest NTIA guidance, and in alignment with Ohio

Administrative Code, Rule 122:30-1-05. A portion of grant funds not to exceed thirty per cent of total grant funds awarded for the project will be disbursed prior to the commencement of project construction. A portion of grant funds not to exceed sixty per cent of total grant funds awarded to the project will be disbursed by periodic payments, based on meeting measurable milestones approved by BroadbandOhio. At least ten (10) percent of grant funds will be disbursed upon proof of project completion (see 2.16.2.A).

As a next step, the revised version of Ohio's BEAD Initial Proposal Volume II will be submitted to NTIA, in partial fulfillment of the BEAD Initial Proposal requirements. Ohio will incorporate any guidance received from NTIA on the draft of Volume II of the BEAD Initial Proposal to ensure compliance with BEAD requirements, as enabled by existing provisions.

# Objectives (Requirement 1)

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(Req 2.1.1) Outline of Ohio’s long-term objectives for deploying broadband; closing the digital divide; addressing access, affordability, equity, and adoption issues; and enhancing economic growth and job creation. This content is identically described in Ohio’s BEAD Five-Year Action Plan, submitted to NTIA on June 27, 2023.

## Vision

The Ohio economy ranks #7 in the US<sup>1</sup> and #24 in the world.<sup>2</sup> Thanks to the hard work and innovation of Ohioans, we stand on the precipice of the next phase of growth.

Innovation has a long and deep history in our state. The Wright brothers flew the world’s first successful airplane. Thomas Edison secured more patents than any other American. Twenty-five astronauts are Ohio natives; they have completed three trips to the moon, among numerous other space flights. Ohio has also led innovation in bringing high-speed internet access to our K-12 schools, higher education institutions, state and local governments by creating a nationally recognized statewide infrastructure called OARnet to deliver ultra-fast fiber-optic connectivity. OARnet also serves as Ohio’s Research and Education Network (REN).

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<sup>1</sup> [GDP by State](#), World Population Review, 2020

<sup>2</sup> [GDP Ranked by Country](#), World Population Review, 2020

The strength of our economy and the skills and ingenuity of our workforce attract top American companies. For example, Intel will invest more than \$20 billion to build two factories and establish a new epicenter for advanced chipmaking in Ohio.<sup>3</sup> Amazon Web Services (AWS) announced estimated investments of \$7.8 billion to be made by the end of 2029 to expand its data center operations in central Ohio, representing the second-largest single private sector company investment in Ohio's history.<sup>4</sup> Ford has announced plans to invest \$1.5 billion and create 1,800 jobs in Avon Lake to assemble an all-new electric commercial vehicle for Ford Pro customers (debuting mid-decade), plus plans to invest \$100 million and create 90 jobs in the Lima Engine and Sharonville transmission plants.<sup>5</sup> The Cleveland Clinic has announced a \$1.3 billion capital investment that will create 2,000 jobs at a new one-million-square-foot Neurological Institute and expand the Cole Eye Institute and the research facilities of the Cleveland Innovation District.<sup>6</sup> Joby Aviation Inc. announced plans to invest at least \$477.5 million to build an electric air taxi manufacturing facility at the Dayton International Airport, creating 2,000 new jobs in the Miami Valley and continuing Ohio's legacy in aviation leadership.<sup>7</sup>

To capitalize on these investments and realize their potential for innovation, all Ohioans must be connected to the modern economy through affordable high-speed internet. Otherwise, they face a competitive disadvantage in today's technology-infused, global economy. And, as the pandemic demonstrated, without high-speed internet at home, children cannot complete homework, and adults cannot access the full range of job and upskilling opportunities.

Internet access is the gateway to this technology-charged economy. More and more jobs require digital skills, and internet access opens the door to reskilling, upskilling,

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<sup>3</sup> [Intel Announces Next US Site with Landmark Investment in Ohio](#), Intel newsroom, 2022

<sup>4</sup> [Governor DeWine Announces Plans for Estimated \\$7.8 Billion Investment by Amazon Web Services in Ohio](#), Governor of Ohio News Releases, 2023

<sup>5</sup> [Corporate Investments Continue to Pour into Ohio](#), JobsOhio, 2022

<sup>6</sup> Ibid

<sup>7</sup> [Governor DeWine, Lt. Governor Husted, Joby Aviation Announce Historic Manufacturing Site in Ohio](#), Governor of Ohio Press Releases, 2023.



and working remotely, regardless of zip code. Internet access creates opportunities for business creation, expansion, and growth statewide. Key Ohio industries stand to benefit from applications like digital agriculture and smart transportation enabled by high-speed internet.

Internet access is also the way that people connect with their communities and the world. The internet connects people with loved ones; this connectivity can be especially important for older Americans. Today, many people use multiple internet channels (e.g., social media, email, and video calling) to stay connected with family, friends, and the world.

With the acute understanding that lack of broadband and internet access limits opportunities for businesses and residents in Ohio, the DeWine-Husted Administration has made concerted efforts toward establishing Ohio as a leader in broadband deployment and utilization, as well as identifying the opportunities to fill the gaps in access to high-speed internet for all Ohioans. Since the announcement of the 2019 Ohio Broadband Strategy, the state has made great progress, including the establishment of the office of BroadbandOhio in March 2020 as an executive branch state agency housed within the Ohio Department of Development to lead broadband deployment and digital opportunity efforts.

Looking ahead and building on progress to date, the State of Ohio specifically envisions broadband deployment and digital participation within the state along 4 key priorities:

- a. Bring reliable, affordable, high-speed internet to all Ohioans, in their homes and communities;
- b. Promote the creation of world-class broadband networks throughout the state, via the use of best-in-class technologies;
- c. Enable participation in the modern economy; and
- d. Empower Ohioans through training, device access, and digital skills.

## Goals and Objectives

With the above vision, the State of Ohio and BroadbandOhio aims to bring high-speed internet access to every Ohioan and build a best-in-class broadband network in Ohio. The strategic pillars represent the state's priorities for investment of both state and federal dollars that will be made available over the next several years. Aligned to each priority is a set of core pillars / goals that the State of Ohio has defined. BroadbandOhio has additionally defined a set of specific objectives for the purposes of BEAD, which will help guide how Ohio leverages BEAD to achieve this strategic vision.

Table 1: Goals and Objectives

Vision	Goal	Objective
<ul style="list-style-type: none"> <li>- A. Bring reliable, affordable, high-speed internet to every Ohioan, in their home and in their community</li> </ul>	<ul style="list-style-type: none"> <li>- A1. Invest in last-mile infrastructure deployment</li> </ul>	<ul style="list-style-type: none"> <li>- A1a. All Ohioans have access to at least 100/20 Mbps reliable internet by 2030</li> </ul>
		<ul style="list-style-type: none"> <li>- A1b. Award first round of BEAD grants by 2024</li> </ul>
		<ul style="list-style-type: none"> <li>- A1c. Increase ACP uptake in Ohio to 45 percent<sup>8</sup></li> </ul>
		<ul style="list-style-type: none"> <li>- A1d. All ACP-eligible Ohioans have access to a \$30/month plan, regardless of the status of ACP funding availability</li> </ul>
	<ul style="list-style-type: none"> <li>- A2. Expand middle mile network to facilitate last mile deployment</li> </ul>	<ul style="list-style-type: none"> <li>- A2a. Reduce the median cost of middle mile by 5-8 percent</li> </ul>
	<ul style="list-style-type: none"> <li>- A2b. Increase network resiliency and redundancy</li> </ul>	
	<ul style="list-style-type: none"> <li>- A3. Remove barriers to broadband deployment and maximize asset reuse</li> </ul>	<ul style="list-style-type: none"> <li>- A3a. Facilitate last-mile build-out by reducing make-ready costs via the Pole Replacement Program</li> </ul>
<ul style="list-style-type: none"> <li>- A3b. Create a standard pricing list for utilizing MARCS towers</li> </ul>		

<sup>8</sup> This objective will be dependent upon the continuation of ACP or an equivalent federal program.

Vision	Goal	Objective
<ul style="list-style-type: none"> <li>- B. Promote the creation of world-class broadband networks throughout the state, via the use of best-in-class technologies</li> </ul>	<ul style="list-style-type: none"> <li>- B1. Keep pace with changing technology and demand</li> </ul>	<ul style="list-style-type: none"> <li>- B1a. All Ohioans have access to internet technology with the highest standards of reliability, scalability, and security</li> </ul>
	<ul style="list-style-type: none"> <li>- B2. Connect community anchor institutions to serve as digital hubs</li> </ul>	<ul style="list-style-type: none"> <li>- B2a. Expand availability of public Wi-Fi throughout the state</li> </ul>
<ul style="list-style-type: none"> <li>- C. Enable participation in the modern economy</li> </ul>	<ul style="list-style-type: none"> <li>- C1. Expand telehealth access and usage via targeted programming</li> </ul>	<ul style="list-style-type: none"> <li>- C1a. Analyze 10 school districts to understand readiness to implement telehealth</li> </ul>
		<ul style="list-style-type: none"> <li>- C1b. Create a telehealth steering committee</li> </ul>
	<ul style="list-style-type: none"> <li>- C2. Expand access to remote education opportunities</li> </ul>	<ul style="list-style-type: none"> <li>- C2a. In 2 years, identify students who lack consistent access to a high-speed internet connection</li> </ul>
		<ul style="list-style-type: none"> <li>- C2b. In 3 years, identify a plan to help identified students maintain and sustain connectivity despite barriers</li> </ul>
	<ul style="list-style-type: none"> <li>- C3. Support Ohio’s farmers to improve productivity by enabling digital agriculture uptake</li> </ul>	<ul style="list-style-type: none"> <li>- C3a. 100 percent of farms in Ohio have access to high-speed internet</li> </ul>
		<ul style="list-style-type: none"> <li>- C3b. Pilot digital agriculture use cases for future deployment</li> </ul>
	<ul style="list-style-type: none"> <li>- C4. Enable safe and easy movement of people and goods via foundational investments to enable intelligent transportation systems</li> </ul>	<ul style="list-style-type: none"> <li>- C4a. Institute policy that accelerates fiber deployment along roads during construction projects</li> </ul>
		<ul style="list-style-type: none"> <li>- C4b. Create an additional SMART highway</li> </ul>

Vision	Goal	Objective
		<ul style="list-style-type: none"> <li>- C4c. Determine the effectiveness of SMART highways on traffic congestion</li> </ul>
<ul style="list-style-type: none"> <li>- D. Empower Ohioans through training, device access, and digital skills</li> </ul>	<ul style="list-style-type: none"> <li>- D1. Support workforce development initiatives that connect Ohioans to broadband deployment and digital jobs</li> </ul>	<ul style="list-style-type: none"> <li>- D1a. Expand curricula and internships in middle and high school to create broadband industry career awareness</li> </ul>
		<ul style="list-style-type: none"> <li>- D1b. Scale education and training programs for skill development for the broadband industry</li> </ul>
		<ul style="list-style-type: none"> <li>- D1c. Increase the number of available broadband training programs</li> </ul>
		<ul style="list-style-type: none"> <li>- D1d. Increase utilization of broadband training programs</li> </ul>
	<ul style="list-style-type: none"> <li>- D2. Accelerate adoption, usage, and economic empowerment via Regional Digital Inclusion Alliances</li> </ul>	<ul style="list-style-type: none"> <li>- D2a. Improve adoption rates both overall and for each Covered Population</li> </ul>
		<ul style="list-style-type: none"> <li>- D2b. Increase share of Ohioans with access to internet-ready devices</li> </ul>
		<ul style="list-style-type: none"> <li>- D2c. Increase the number of digital literacy programs available statewide</li> </ul>

Below, we provide a description of each objective listed above, as well as associated KPIs that Ohio will track to evaluate progress.

**Bring reliable, affordable, high-speed internet to every Ohioan, in their home and in their community**

A.1 Invest in last-mile infrastructure deployment: Bring reliable, affordable high-speed internet to all Ohioans via a competitive grant process

**Relevant BEAD Pillars: Broadband Deployment, Broadband Access, Broadband Affordability**

Ohio seeks to invest in last-mile infrastructure deployment to ensure all Ohioans have access to reliable internet. To date, there remains a sizeable gap in access to high-speed internet for many Ohioans. According to the FCC's service availability maps as of 31 January 2023, there were approximately 332,000 broadband service locations in Ohio without access to reliable broadband, with access challenges most acute in Ohio's Appalachian counties.<sup>9</sup> The gaps are not only in rural areas, but also in urban areas – especially in apartment buildings and other multi-dwelling units. In addition to prioritizing the build-out of high-speed internet, affordability of subscriptions is a key priority. Even in communities where high-speed internet is available, high subscription prices make home internet unaffordable for many Ohioans.

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<sup>9</sup> Reliable broadband defined as fiber, cable, copper, and licensed fixed wireless.

Table 2: Key objectives to address this goal include:

Objective	KPI	Baseline	Relevant BEAD pillars
– A1a. All Ohioans have access to at least 100/20 Mbps reliable internet by 2030	– Share of Ohio broadband serviceable locations (BSLs) with access to 100/20 Mbps reliable internet	– 93 percent <sup>10</sup>	– Broadband deployment; Broadband access
– A1b. Award first round of BEAD grants by 2024	– Share of BEAD grants awarded	– 0 percent	– Broadband deployment
– A1c. Increase ACP uptake in Ohio to 45 percent <sup>11</sup>	– ACP uptake rate	– 41 percent <sup>12</sup>	– Broadband affordability
– A1d. All Ohioans would have access to an ACP-eligible (\$30/month)	– Share of Ohio HHs with access to at least 1 affordable	– ~15 percent BSLs with access to \$30/month plan for 25/3 Mbps <sup>13</sup>	– Broadband access; Broadband affordability

<sup>10</sup> Calculated as share of unique Ohio BSLs with 1+ internet service provider offering 100/20 Mbps broadband service via technologies that are not unlicensed FWA or satellite. Data from FCC Data maps, downloaded 31 January 2023.

<sup>11</sup> Objective is dependent upon the continuation of federal ACP funding or an equivalent program.

<sup>12</sup> [Affordable Connectivity Program Enrollment Dashboard](#). Education Superhighway. As of April 13, 2023

<sup>13</sup> Access to an affordable plan is defined by FCC availability data and market research. For example, a BSL has an affordable 25/3 plan at \$30/month IF 1 or more providers reports 25/3 service to the FCC maps AND that provider advertises a \$30/month plan with minimum speeds of 25/3. Based on 4,478,218 broadband-serviceable locations (BSLs) in Ohio as of January 31st, 2023.

Objective	KPI	Baseline	Relevant BEAD pillars
plan, regardless of the status of ACP funding availability	\$30/month internet plan	– ~14 percent BSLs with access to \$30/month plan for 100/20 Mbps <sup>14</sup>	

A.2 Expand middle mile network to facilitate last mile deployment: Extend the reach of middle mile network through unserved areas of the state to help facilitate last mile deployment, increase competition, and improve affordability

**Relevant BEAD Pillars: Broadband Deployment, Broadband Access, Broadband Affordability**

Last mile connection affordability could be enabled via increased middle mile options. Today, there are at least 10 different middle mile network providers in Ohio, with key players including AT&T, Independents Fiber Network (IFN), the Ohio Middle Mile Consortium, OARnet, and Digital Access Ohio. However, certain regions in Ohio, such as the Appalachian counties, have limited middle mile access. Ohio needs more expansive middle mile to bring down last-mile deployment cost and enable universal, reliable, high-speed internet coverage.

**Table 3:Key objectives to address this goal include:**

Objective	KPI	Baseline	Relevant BEAD pillars
– A2a. Reduce the median cost of middle	– Median cost per prem	– To be determined in specific areas	– Broadband affordability

<sup>14</sup> ibid



Objective	KPI	Baseline	Relevant BEAD pillars
mile by 5-8 percent		where middle mile funding awards are won	
<ul style="list-style-type: none"> <li>- A2b. Increase network resiliency and redundancy</li> </ul>	<ul style="list-style-type: none"> <li>- Share of uptime</li> </ul>	<ul style="list-style-type: none"> <li>- To be determined in specific areas where middle mile funding awards are won</li> </ul>	<ul style="list-style-type: none"> <li>- Broadband deployment; Broadband access</li> </ul>

A3. Remove barriers to deployment & maximize asset reuse: Reduce cost barriers / streamline permitting processes (e.g., railroad crossing) and leverage existing state and local assets to support infrastructure deployment

**Relevant BEAD Pillars: Broadband Deployment, Broadband Affordability**

To date, Ohio’s efforts to reduce barriers to broadband deployment have focused on simplifying permitting and application processes related to broadband infrastructure and use of state assets by ISPs. Ohio additionally has significant assets available to support broadband deployment. OARnet’s at minimum 100-Gigabit-per-second fiber network is available to CAIs, sponsored hospital systems, private companies engaged in R&D, select economic development-focused projects and private data centers where OARnet clients have requested service. The MARCS towers project lets ISPs broadcast via the publicly owned Multi-Agency Radio Communications System, expanding their reach into unserved areas.

Table 4: Key objectives to help achieve this goal include:

Objective	KPI	Baseline	Key relevant BEAD pillars
<ul style="list-style-type: none"> <li>- A3a. Facilitate last-mile build-out by reducing make-ready costs via the Pole Replacement Program</li> </ul>	<ul style="list-style-type: none"> <li>- Average make-ready cost</li> </ul>	<ul style="list-style-type: none"> <li>- To be determined through survey of ORBEG grant recipients</li> </ul>	<ul style="list-style-type: none"> <li>- Broadband deployment; Broadband affordability</li> </ul>
<ul style="list-style-type: none"> <li>- A3b. Create a standard pricing list for utilizing MARCS towers</li> </ul>	<ul style="list-style-type: none"> <li>- Utilization rate of MARCS towers</li> </ul>	<ul style="list-style-type: none"> <li>- n/a</li> </ul>	<ul style="list-style-type: none"> <li>- Broadband deployment; Broadband affordability</li> </ul>

Promote the creation of world-class broadband networks throughout the state, via the use of best-in-class technologies

B1. Keep pace with changing technology and demand: Ensure Ohio’s broadband infrastructure always meets the highest standards of reliability and scalability through efficient upgrades and by upholding standards in grants and permitting processes

**Relevant BEAD Pillars: Broadband Deployment**

Ohio aims to keep up with the pace of changes in broadband demands in its network development efforts. The increasing data, throughput and latency demands of new applications along with scientific and technological advances means that what is considered “high-speed internet” will continue to change. In the early 2000s, common

uses of the internet were simply email and web browsing; and at that time, the FCC defined *broadband* as 200/200 Kbps. In 2010, that definition was updated to 4/1 Mbps as usage, data demands and file sizes scaled. Then in 2015, the definition of broadband was again updated to 25/3 Mbps, as video and streaming usage took off.

**Table 5: Key objectives to help achieve this goal include:**

Objective	KPI	Baseline	Key relevant BEAD pillars
<ul style="list-style-type: none"> <li>- B1a. All Ohioans have access to internet technology with the highest standards of reliability, scalability, and security</li> </ul>	<ul style="list-style-type: none"> <li>- Share of BSLs with access to fiber or licensed spectrum</li> <li>- Share of ISPs across Ohio compliant with NIST cybersecurity measures</li> <li>- Share of fiber deployment materials sourced within United States for BEAD projects</li> </ul>	<ul style="list-style-type: none"> <li>- 43.5 percent Ohio BSLs with fiber access<sup>15</sup>, and 79.4 percent with fiber / fixed wireless access<sup>16</sup></li> <li>- Not available, to be determined during BEAD application process</li> <li>- Not available, contingent upon BEAD deployment start</li> </ul>	<ul style="list-style-type: none"> <li>- Broadband deployment</li> </ul>

<sup>15</sup> Calculated as [Unique Ohio BSLs with access to 1 or more ISP that provide fiber broadband with greater than 0/0 speed] / [All unique Ohio BSLs]. Data from FCC Data maps, downloaded 31<sup>st</sup> January 2013

<sup>16</sup> Calculated as [Unique Ohio BSLs with access to 1 or more ISP that provide fiber, licensed FWA, or licensed-by-rule FWA broadband with greater than 0/0 speed] / [All unique Ohio BSLs]. Data from FCC Data maps, released Nov 18, 2022.

B2. Connect community anchor institutions to serve as digital hubs:  
Empower CAIs as local hubs for connectivity, digital inclusion, and innovation through access to Gigabit symmetrical service

**Relevant BEAD Pillars: Broadband Deployment, Broadband Access, Broadband Adoption, Digital Opportunity**

Ohio plans to support Community Anchor Institutions (CAIs) so that they can serve as digital hubs for Ohioans. Ohio has a broad array of CAIs that provide needed services to local communities, including access to health and wellness services, formal and informal education and skill building, and spaces for various community events. Many already function as digital hubs, where members of the community can go to use the internet, access, or borrow devices, and take courses to build digital skills. Others need more resources to expand their offerings to meet the needs of residents.

**Table 6: Key objectives to help achieve this goal include:**

Objective	KPI	Baseline	Key relevant BEAD pillars
<ul style="list-style-type: none"> <li>- B2a. Expand availability of public Wi-Fi throughout the state</li> </ul>	<ul style="list-style-type: none"> <li>- Count of BSLs without access to at least 1 CAI that offers public Wi-Fi within 5 miles</li> </ul>	<ul style="list-style-type: none"> <li>- 62,425 BSLs<sup>17</sup></li> </ul>	<ul style="list-style-type: none"> <li>- Broadband deployment; Broadband access; Broadband Adoption, Digital Opportunity</li> </ul>

<sup>17</sup> FCC Broadband data map, HIFLD data, State Library of Ohio data, Ohio Department of Health data

**Enable participation in the modern economy**

C1. Expand telehealth access and usage via targeted programming: Expand telehealth access & usage by linking Ohio’s health systems to schools and expanding current program to additional health priorities

Relevant BEAD Pillars: Broadband Adoption, Digital Opportunity

The 2019 Broadband Strategy highlighted mental health as a concern for Ohio. At the time, Ohio ranked in the bottom quartile for incidence of Adverse Childhood Experiences (ACEs). The pandemic exacerbated the health crisis, especially as alcohol and substance use rose significantly, according to the Ohio Department of Mental Health and Addiction Services.<sup>18</sup> Despite the small improvements in certain metrics, improving health outcomes for Ohioans, especially amid the nationwide, multi-year trend of declining mental health, is a priority for Ohio.

Improving access to telehealth, especially to treat mental health issues, would help achieve several broader goals of the DeWine-Husted administration, including those set forth in the Ohio Department of Health’s State Health Improvement Plan.<sup>19</sup> Broadening internet availability would help the Ohio Department of Health (ODOH) meet its goals for improving access to care.

**Table 7: Key objectives to help achieve this goal include:**

Objective	KPI	Baseline	Key relevant BEAD pillars
– C1a. Analyze 10 school districts to understand	– Number of school	– 0	– Broadband adoption;

<sup>18</sup> [Breaking Point. Ohio’s Behavioral Health Workforce Crisis](#). The Ohio Council of Behavioral Health & Family Providers

<sup>19</sup> [ODH State Health Improvement Plan](#). Ohio Department of Health (2020-2022)

Objective	KPI	Baseline	Key relevant BEAD pillars
readiness to implement telehealth	districts analyzed		digital opportunity
– C1b. Create a telehealth steering committee	– Establishment of telehealth steering committee	– In progress	– Broadband adoption

C2. Expand access to remote education opportunities: Ensure all students & teachers have access to reliable internet and internet-capable devices to access digital learning at home & school

**Relevant BEAD Pillars: Broadband Access, Broadband Adoption, Digital Opportunity, Economic Growth and Job Creation**

As all Americans remember, remote education was the only learning available to millions of students during the pandemic; school closings affected 50 million students. Many Ohio students still suffer from pandemic learning loss, particularly among vulnerable populations.

Internet access has clear benefits for school-aged children. The internet enhances classroom learning. Digital skills give school-aged children access to a wide range of knowledge and resources that are important for accessing job opportunities in the digital economy. Wi-Fi can enable virtual field trips, coding classes, digital guest teachers, and more. Internet access is also needed at home, especially as online homework has become a big part of education.

Table 8: Key objectives to help promote internet access for education include:

Objective	KPI	Baseline	Key relevant BEAD pillars
<ul style="list-style-type: none"> <li>– C2a. In 2 years, identify students who lack consistent access to a high-speed internet connection</li> </ul>	<ul style="list-style-type: none"> <li>– List of students without access to reliable internet &amp; devices</li> </ul>	<ul style="list-style-type: none"> <li>– Not started</li> </ul>	<ul style="list-style-type: none"> <li>– Broadband access</li> </ul>
<ul style="list-style-type: none"> <li>– C2b. In 3 years, identify a plan to help identified students maintain and sustain connectivity despite barriers</li> </ul>	<ul style="list-style-type: none"> <li>– Plan to provide resources (e.g., subsidy, hot-spot) to students without access to reliable internet &amp; devices</li> </ul>	<ul style="list-style-type: none"> <li>– Not started</li> </ul>	<ul style="list-style-type: none"> <li>– Broadband access; Broadband adoption; Digital opportunity; Economic growth and job creation</li> </ul>

These objectives will be further detailed and refined in the State Digital Opportunity plan.

C3. Support Ohio’s farmers to improve productivity by enabling digital agriculture uptake: Enhance agricultural productivity by enabling digital agriculture uptake through identification of use cases, strategic partnerships, and expanded broadband access

### **Relevant BEAD Pillars: Broadband Deployment, Broadband Adoption, Digital Opportunity, Economic Growth and Job Creation**

Ohio aims to support farmers by enabling digital agriculture uptake. Agriculture is key to the Ohio economy and the livelihood of many Ohioans. As of 2018, there were about 77,800 farms in Ohio, fourth most in the nation.<sup>20</sup> Using technologies like crop health sensors and spatial data management systems, digital agriculture can make Ohio farmers more efficient and resilient.

While 30 percent of Ohio farmers currently use digital agriculture technology— five percentage points above the national average – broader adoption faces challenges.<sup>21</sup> Only 64 percent of Ohio farmers have internet access, which is 18 percentage points below the national average.<sup>22</sup> Digital agriculture enables farmers to manage their farms remotely and more efficiently. These technologies allow farmers to analyze and maintain soil and crop health, making Ohio ecosystems more stable, and yields more predictable. But digital agriculture requires special equipment and software to analyze information in real time, and access to reliable broadband is key.

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<sup>20</sup> [2020 Ohio Facts - Economy](#)

<sup>21</sup> [USDA Farm Computer Usage and Ownership \(2021\)](#)

<sup>22</sup> Ibid



Table 9: Key objectives to help achieve this goal include:

Objective	KPI	Baseline	Key relevant BEAD pillars
<ul style="list-style-type: none"> <li>- C3a. 100 percent of farms in Ohio have access to high-speed internet</li> </ul>	<ul style="list-style-type: none"> <li>- Share of farms with access to 100/20 Mbps internet</li> </ul>	<ul style="list-style-type: none"> <li>- 64 percent with internet<sup>23</sup></li> </ul>	<ul style="list-style-type: none"> <li>- Broadband deployment</li> </ul>
<ul style="list-style-type: none"> <li>- C3b. Pilot digital agriculture use cases for future deployment</li> </ul>	<ul style="list-style-type: none"> <li>- Number of pilot programs for digital agriculture use cases</li> </ul>	<ul style="list-style-type: none"> <li>- To be set in coordination with Digital Agriculture partners – detailed in State Digital Opportunity Plan</li> </ul>	<ul style="list-style-type: none"> <li>- Broadband adoption; Digital opportunity; Economic growth and job creation</li> </ul>

These objectives will be further detailed and refined in the State Digital Opportunity plan.

C4. Enable safe and easy movement of people and goods via foundational investments to enable intelligent transportation systems: Ensure robust highway broadband access to support the deployment of smart corridors across Ohio in partnership with the Department of Transportation

<sup>23</sup> Figures for farms with internet access, from [USDA Farm Computer Usage and Ownership](#), 2021. Note: Speed data not available.

Relevant BEAD Pillars: Broadband Deployment

Ohio has laid the foundation for taking full advantage of intelligent transportation technologies. The state made significant investments in building and maintaining a road network that totals 121,000 center line miles and includes 21 interstate highways. Ohio has also demonstrated a strong commitment to road safety. Ohio is building a state-of-the-art intelligent transportation system that includes smart corridors and CCTV, dynamic message signs, and ramp meters. The state has made the necessary investments in fiber optic and communications technology near roadways to support data acquisition, processing, communication, and utilization in advanced processing systems.

A range of intelligent transportation technologies could build on this foundation, including Vehicle-to-everything (V2X) communication, intelligent traffic management, fleet management, intelligent electric vehicle charging, smart corridors, and more. The further promotion of intelligent transportation systems could additionally support public safety and economic development by enabling safe and efficient movement of people and goods.

Table 10: Key objectives to help achieve this goal include:

Objective	KPI	Baseline	Key relevant BEAD pillars
<ul style="list-style-type: none"> <li>- C4a. Institute policy that accelerates fiber deployment along roads during construction projects</li> </ul>	<ul style="list-style-type: none"> <li>- Right-of-way policy in place</li> </ul>	<ul style="list-style-type: none"> <li>- State Right-of-Way policy in place</li> <li>- State highway right-of-way policy</li> </ul>	<ul style="list-style-type: none"> <li>- Broadband deployment</li> </ul>

Objective	KPI	Baseline	Key relevant BEAD pillars
		not yet in place	
<ul style="list-style-type: none"> <li>- C4b. Create an additional SMART highway</li> </ul>	<ul style="list-style-type: none"> <li>- Number of SMART highways</li> </ul>	<ul style="list-style-type: none"> <li>- 1 SMART highway currently exists</li> </ul>	<ul style="list-style-type: none"> <li>- N/A</li> </ul>
<ul style="list-style-type: none"> <li>- C4c. Determine the effectiveness of SMART highways on traffic congestion</li> </ul>	<ul style="list-style-type: none"> <li>- Report on effectiveness</li> </ul>	<ul style="list-style-type: none"> <li>- Not started</li> </ul>	<ul style="list-style-type: none"> <li>- N/A</li> </ul>

**Empower Ohioans through training, device access, and digital skills**

D1. Support workforce development initiatives that connect Ohioans to broadband deployment and digital jobs: Partner with universities & workforce development organizations to build the broadband network, upskill workers for digital jobs, and enable remote work opportunities

**Relevant BEAD Pillars: Broadband Deployment, Broadband Adoption, Digital Opportunity, Economic Growth and Job Creation**

The unprecedented investment in deploying broadband will create jobs in broadband deployment across the state and will enable opportunities for digital jobs and remote work in communities where broadband availability and adoption is currently low. Ohio’s “Strengthening Ohio’s Broadband & 5G Workforce” strategy, for instance, noted that federal funding of approximately \$1 billion for broadband deployment could create 2,500 direct jobs that will need to be filled, compounding the current labor shortage.

Broadband deployment will additionally bolster Ohio’s economic growth and creation of gainful jobs. From 2018 to 2028, industries that provide services are expected to grow 2.9 percent, while industries that produce goods are expected to shrink 0.4 percent. The largest growth will be in the healthcare and social assistance sector (11.3 percent).<sup>24</sup> According to a study for central Ohio, eight of the 25 occupations that will experience the greatest demand over the next decade require little more than a high school diploma and are vulnerable to technological disruptions. Workers skilled in interacting with smart devices will be critical to the economy.<sup>25</sup>

**Table 11: Key objectives to achieve this goal include, to be done in concert with the Broadband & 5G Sector Partnership and the “Strengthening Ohio’s Broadband & 5G Workforce” Strategy:**

Objective	KPI	Baseline	Key relevant BEAD pillars
D1a. Expand curricula and internships in middle and high school to create broadband industry career awareness	Number of participants in High School Tech Pilot Program for broadband-related occupations	To be determined	Broadband deployment; Economic growth and job growth
D1b. Scale education and training programs for skill development for the broadband industry	Number of participants trained for broadband-related occupations	To be determined	Broadband adoption; Digital opportunity; Economic growth and job creation
D1c. Increase the number of available broadband training programs	Number of training programs offered for broadband-related occupations	To be determined	Broadband adoption; Digital opportunity; Economic growth and job creation

<sup>24</sup> [2028 Ohio Job Outlook, Department of Job and Family Services](#)

<sup>25</sup> [Fast Forward: The Future of Smart Work in Central Ohio, 2020](#)

Objective	KPI	Baseline	Key relevant BEAD pillars
D1d. Increase utilization of broadband training programs	Number of participants enrolled in broadband training programs (e.g., TechCred, IMAP)	To be determined	Broadband deployment; Economic growth and job creation

D2. Accelerate adoption, usage, and economic empowerment via Regional Digital Inclusion Alliances (RDIA): Partner with RDIA as they engage local communities in driving Digital Opportunity via funding for programs that promote broadband adoption and provide training on digital skills

**Relevant BEAD Pillars: Broadband Adoption, Broadband Affordability, Digital Opportunity, Economic Growth and Job Creation**

Universally available high-speed internet infrastructure will provide all Ohioans with access, but it is not sufficient to reach the vision of full participation in the modern economy. Enabling improved health outcomes, educational opportunities, economic development, and safer transportation requires that Ohioans have the digital devices and digital skills to productively use the internet.

Making this vision a reality will be a challenge. Even where high-speed internet is available, Ohioans face barriers to internet adoption, with some 1.3 million Ohio households (28 percent) without subscriptions to high-speed, fixed broadband.<sup>26</sup> The gap between having a broadband subscription is especially pronounced for underrepresented population groups relative to the general population, such as those who live below 150 percent of the federal poverty line and those in rural areas.

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<sup>26</sup> American Communities Survey. US Census Bureau (2021 5-year estimates)

Gaps in device access follow the same trends but are less pronounced. Nearly 83 percent of Ohioans have access to an internet-capable device in their home (excluding those with only smartphones). But access lags among people who are over 60 (77 percent), who are English language learners (73 percent), and people with disabilities (71 percent).<sup>27</sup>

To accelerate digital opportunity, in February of 2023, Ohio established the Regional Digital Inclusion Alliances (RDIA). The role of the RDIA is to convene diverse stakeholders to coordinate regional planning efforts, support digital inclusion activities, and collect local feedback to inform Ohio's Digital Opportunity Plan, in partnership with BroadbandOhio. BroadbandOhio promotes local and regional digital inclusion success stories and ensures that the state's plan incorporates regional plans to best meet the needs of all Ohioans.

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<sup>27</sup> From U.S. Census 2021 ACS 1-Year Estimates Subject Table.

Table 12: Key objectives that Ohio aims to achieve with RDIA's include:

Objective	KPI	Baseline	Key relevant BEAD pillars
D2a. Improve adoption rates both overall and for each Covered Population	Difference in internet adoption rates between covered and non-covered populations	(Among others) 20pp gap between those living on <150 percent FPL and rest of population <sup>28</sup>	Broadband adoption; Digital opportunity
D2b. Increase in share of Ohioans with access to internet-ready devices	Percent of Ohioans with a computer, laptop, or tablet device	64 percent for computer / tablet <sup>29</sup>	Broadband adoption; Broadband affordability; Digital opportunity
D2c. Increase the number of digital literacy programs available statewide	Number of new digital literacy programs	Not started	Broadband adoption; Digital opportunity; Economic growth and job creation

These objectives will be further detailed and refined in the State Digital Opportunity plan.

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<sup>28</sup> ibid

<sup>29</sup> Share of Ohioans over the age of 3 who responded that they use a desktop computer, laptop computer, or a tablet on the [NTIA Internet Use Survey 2021](#)

# Local, Tribal and Regional Broadband Planning Processes (Requirement 2)

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**(Req 2.2.1)** Below includes the identification and outline of steps that Ohio will take to support local and regional broadband planning processes and ongoing efforts to deploy broadband or close the digital divide. These include how BroadbandOhio will coordinate its planning efforts with the broadband planning processes of local governments, and other local and regional entities. This content is identically described in Ohio’s BEAD Five-Year Action Plan, submitted to NTIA on June 27, 2023, in the Stakeholder Engagement Process (Section 5.1):

- Section 5.1.1, Ongoing efforts: Describes BroadbandOhio’s work to engage stakeholders in detailed planning for BEAD since the office’s founding in 2020. This work will continue until the plan is completed.
- 5.1.2, Identifying key stakeholders: Explains how BroadbandOhio designed its BEAD and DE plan – guided by the BEAD and DE NOFOs – to reach key stakeholder groups, particularly under-represented communities.



The full content from Ohio’s BEAD Five-Year Action Plan, Stakeholder Engagement Process (Section 5.1) can be found in subsequent parts of this Initial Proposal.

### **5.1.1 Ongoing efforts (2020-present)**

Since its inception, BroadbandOhio has believed that closing the digital divide requires a broad coalition of stakeholders. To close this divide, BroadbandOhio has worked to understand the relevant obstacles, needs, and gaps involved, and to convene a coalition of stakeholders and partners to address them. With this in mind, BroadbandOhio has initiated and joined various partnerships, as outlined below.

**Broadband and workforce partnerships.** BroadbandOhio actively participates in:

- **Ohio Broadband Alliance.** BroadbandOhio leads this coalition of over 500 members comprising ISPs, local governments, and non-profits. The alliance convenes quarterly to discuss the status of broadband in Ohio and to identify opportunities for collaborative work.
- **Broadband Expansion Program Authority.** This government authority, made up of members appointed by the Governor and Legislature, oversees the Ohio Residential Broadband Expansion Grant (ORBEG), a statewide grant program that help ISPs expand into areas lacking service by assisting with infrastructure costs and network-building. The authority receives, reviews, scores, and approves ORBEG applications, and it creates scoring criteria and applicant resources.
- **Broadband Working Group.** This group convenes key Ohio state agencies related to broadband so they can identify barriers to broadband deployment, align on priorities, collect information on assets they can leverage, and more. The Working Group consists of InnovateOhio; the Ohio Departments of Development (Office of Workforce Transformation, Governor’s Office of Appalachia), Education, Administrative Services, and Higher Education; OARnet; and the Ohio Education Computer Network Management Council.

- **Regional Digital Inclusion Alliances (RDIAAs).** In October 2022, BroadbandOhio established Regional Digital Inclusion Alliances (RDIAAs) across five regions of the state (Northwest, Northeast, Central, Southeast, Southwest) to serve as collaborative partners with BroadbandOhio. These alliances bring together diverse stakeholders to coordinate regional planning, support digital inclusion, and collect local feedback to inform Ohio’s Digital Opportunity Plan. The RDIA selection process included multiple interviews and a survey. Coordination among organizations designated as RDIAAs kicked off in February 2023.
- **Broadband and 5G Sector Partnership.** This partnership designs and distributes curricula and training programs across Ohio and promotes career awareness to supply the industry with a skilled workforce.
- **Ohio Industry Sector Partnership.** Meeting bi-weekly, this partnership facilitates collaboration among businesses, education and training providers, and other community leaders who seek to improve their region’s workforce. These collaborations yield a more skilled workforce and benefit both Ohioans and Ohio's job-creators.

**Infrastructure buildout partnerships.** BroadbandOhio has conducted numerous meetings and site visits and has participated in multiple conferences and panels. These efforts have helped to build relationships with providers and to understand their needs and barriers. BroadbandOhio is working with these partners to find mutually beneficial solutions that facilitate infrastructure buildout in the state.

Examples include:

- BroadbandOhio holds weekly meetings with OARnet’s leadership to stay aligned on strategic priorities and progress on execution.
- Digital Access Ohio has joined a JobsOhio partnership with Agile Networks to expand high-speed internet access to underserved areas of the state, specifically in Southeast Ohio.
- Conferences and panels

- WISPA (Wireless Internet Service Providers Association) roundtables
- NCTA (The Internet & Television Association) Conference, panel participation
- Fiber Broadband Association, “fireside chat” participation
- Site visits
- Introduction to Intel to identify broadband needs and opportunities as the company opens two new facilities in Ohio
- Medina County visit with the Governor’s Office of Workforce Transformation to discuss broadband expansion
- Preble County Commissioners discussion of broadband expansion
- City of Cleveland and Digital C to meet with leadership and understand needs

**Local government and government associations.** BroadbandOhio has worked with government leaders and associations to understand local needs and perspectives, to remain up to date about specific opportunities where they can assist or work in partnership with local governments to increase access to broadband, and to use the associations’ networks to disseminate information about BroadbandOhio’s work (that is, stakeholder survey distribution). Example associations and government partners include:

- **The Governor’s Office of Appalachia (GOA)** works to foster economic and community development and partnerships to improve the lives of those living in the region.
- **The Ohio Township Association** is a statewide organization dedicated to promoting and preserving Ohio townships and township government through educational materials, forums, and lobbying efforts.
- **County Commissioners’ Association of Ohio (CCAO)** advances effective county government for Ohio through legislative advocacy, education and training, technical assistance and research, quality enterprise service

programs, and greater citizen awareness and understanding of county government.

- Rochester Hills

**Project-specific coalitions.** BroadbandOhio has participated in multiple cross-county and cross-state coalitions to collaboratively drive broadband expansion. Examples include:

- Middle Mile Coalition
- ARISE Coalition
- Tri-County Coalition for Youngstown

**Surveys.** Over the past three years, BroadbandOhio has conducted multiple surveys to identify barriers and areas for improvement. These surveys were conducted prior to the BEAD-DE stakeholder engagement efforts and included:

- ORBEG recommendations, in which BroadbandOhio solicited feedback from participants in the initial round of the ORBEG grant process to determine how to improve the program
- Survey on barriers to pole-permitting (to ORBEG applicants)

**Digital opportunity engagements.** BroadbandOhio has supported digital opportunity initiatives and partnerships since early after the office was founded. Engagements and partnerships have included state agency partnerships as well as participation in and support of community-based non-profits that focus on digital inclusion. Engagement has included:

- JobsOhio (bi-weekly)
- PCs for People (monthly)
- Riverside (monthly)
- Conferences and panels

- County Commissioners’ Association of Ohio (CCAO) panel to discuss BroadbandOhio’s Accelerator program
- Connecting the Heartland panel
- Education Conference (subject: K-12 funding)
- Site visits and ad-hoc meetings
- Riverside 2.0 school visit
- Defiance County Agribusiness
- Miami Valley Educational Service Center
- **FCC challenge-specific engagements (Nov. 22 – Jan. 2023).** BroadbandOhio conducted about 15 public sessions to inform and educate Ohio residents, local governments, and partners about why the FCC challenge process is important and how they can participate. Engagement activities included:
  - A Q&A webinar on the FCC challenge process
  - Holding a meeting with the Ohio Library Council to support dissemination of FCC challenge information in local areas, as well as to inform librarians on how they can help residents submit a challenge
  - Meeting with representatives of the NTIA and East Cleveland to discuss challenges submitted by BroadbandOhio

### **5.1.2 Identifying key stakeholders**

Stakeholders were identified and engaged as the Five-Year Action Plan was being developed to ensure that stakeholders were included throughout the process. BEAD and SDOP stakeholder engagement efforts were done in tandem and leveraged shared resources (the communications team, RDIA’s, surveys, etc.) to collect relevant information for both initiatives and to avoid duplicative efforts and messaging.

The next step of the formal stakeholder engagement process was aggregating the contact information and relationships that BroadbandOhio already had for state and

local government entities, non-profits, community organizations, internet service providers, and other private businesses. This list was analyzed to identify gaps in the coverage of underrepresented communities at the regional level. These gaps were filled through outreach to all minority-serving institutions (MSIs) in the state of Ohio; internet searches of municipal and county websites and 501c3lookup.org; use of RDIA, digital navigator, and local partners' own networks; and general internet research.

The last two sections of the BEAD Five-Year Action Plan, 5.1 Stakeholder Engagement Process, are described below and is referenced in **2.3.1**:

- 5.1.3, Focused BEAD-SDOP stakeholder engagement efforts: Details how BroadbandOhio reached out to stakeholders to engage them in the BEAD-DE planning process. Specific work included raising awareness of engagement opportunities, encouraging attendance at in-person and virtual events, and specifically describing potential engagement opportunities.
- 5.1.4, Key takeaways: Summarizes insights from virtual and in-person listening sessions, which have been incorporated into the Five-Year Action Plan and will inform BroadbandOhio's ongoing planning efforts.

# Local Coordination (Requirement 4)

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(Req 2.3.1) Description of coordination conducted, the impact this coordination has had on the content of the Initial Proposal, and ongoing coordination efforts, including how Ohio will fulfill the coordination associated with the Final Proposal.

a. Description of coordination conducted

BroadbandOhio has conducted extensive local stakeholder coordination as part of its efforts to create the Ohio BEAD Five-Year Action Plan and the State Digital Opportunity Plan (SDOP). Copied below are portions of 5.1 Stakeholder Engagement Process from the BEAD Five-Year Action Plan, which outlines these efforts.

### **5.1.3. Focused BEAD-SDOP stakeholder engagement efforts**

As part of BEAD and SDOP planning, BroadbandOhio implemented a stakeholder engagement initiative over the course of two to three months. The initiative involved in-person and virtual listening sessions, state agency interviews, and three surveys targeting multiple populations.

Digital opportunity-focused engagement efforts – including 50 additional listening sessions across the state – ran in tandem with BEAD efforts, have continued through the fall of 2023, and are described further in the State Digital Opportunity plan.

The local coordination design and evaluation parameters outlined in the BEAD NOFO were incorporated throughout the planning, outreach, and engagement phases of BroadbandOhio’s stakeholder engagement efforts. The details of the approach are described below.

- a. **Full geographic coverage of the Eligible Entity** was achieved through a 40-session state-wide listening tour, which visited eight cities across the five RDIA, covering urban, suburban, and rural areas across the state. Each RDIA hosted an additional 10 sessions, for 50 sessions in total, further deepening coverage across the state.
- b. **Meaningful engagement of, and outreach to, diverse stakeholder groups was** accomplished by conducting multiple in-person listening sessions with key stakeholder groups, including residents, community-based non-profits and digital inclusion practitioners, local governments, and ISPs. In addition, BroadbandOhio made ongoing contacts with organizations representing underrepresented populations and covered populations. Interviews with state agencies provided insight into the needs of various stakeholder groups and suggestions on how to best reach and communicate with said groups. Specific communication channels used to reach underrepresented populations are included in a table later in this section. (See “Touchpoints by underrepresented population.”)
- c. **Multiple awareness and participation mechanisms, and other methods to convey information and outreach** were used through outreach plans and an engagement model that are described in detail later in this section. They included the following:
  - In-person listening sessions
  - Virtual listening sessions or webinars
  - Press releases ahead of events in each city



- BroadbandOhio's websites
- BroadbandOhio's social media (Facebook, Twitter, LinkedIn)
- Handouts with contact information and a survey QR code at BroadbandOhio and RDIA events and libraries, with additional distribution through community partners at local events
- Public distribution of BroadbandOhio's email address on outreach materials, handouts, and online
- E-mail
- Local newspaper placements
- Local newspaper articles written in collaboration with local journalists
- Local signage (posters, specifically at libraries and community centers)
- Digital surveys
- Print surveys targeted at un/underserved addresses and distributed through libraries, direct mail, and RDIA's.

d. **Establishment, documentation, and adherence to clear procedures to ensure transparency** are specifically noted later in this section.

These measures include accessibility considerations when planning stakeholder engagement events; regular website and email updates, including posting listening session materials to the website and a recording of the BroadbandOhio Chief giving the presentation; inclusion of un/underserved households through a mailed survey that provided return postage; and regular meetings with other state agencies, RDIA's (weekly), non-profits and community organizations, local governments, and internet service provider associations.

e. **Outreach and engagement of unserved and underserved communities, including historically underrepresented and marginalized groups and/or communities** was a key component of

each stage of the development of the Five-Year Action Plan. An overview of engagement channels per underrepresented population can be found later in this section. Relationships were proactively built with local non-profits who are led by trusted community members and state agencies representing several of these populations. Listening sessions were also planned for urban, suburban and rural areas.

The remainder of this section describes the BEAD-SDOP stakeholder engagement efforts in greater detail.

## Outreach

To formally announce these efforts, BroadbandOhio issued a press release and posted information about BEAD and SDOP, listening sessions, a survey link, and contact information on its website. The press release was followed by social posts from the Ohio Office of Development and an email from BroadbandOhio to its key partners, including:

### Local government and government associations, some of which include:

- Ohio RDIA's
- Ohio Library Council
- Ohio Township Association
- County Commissioner' Association of Ohio
- Ohio Mayors Alliance
- Ohio Municipal League
- Congressional leaders and staff
- Regional staff of the Governor and Lieutenant Governor

### Internet service providers and associations, some of which include:

- Ohio Telecom Association (OTA)
- Ohio's Broadband and Cable Association (OCTA)
- Wireless Internet Service Providers Association (WISPA)
- Wireless Infrastructure Association (WIA)

**Regional Digital Inclusion Alliances (RDIA)s** are a fundamental piece of the engagement model and contribute extensive local knowledge aimed at engaging organizations and populations that may not have been included in previous statewide outreach.

The RDIA)s were formally launched at the February 2023 Digital Opportunity Summit, which drew over 250 participants state-wide and included speeches by both the executive director of the NDIA and the NTIA's digital equity director.

Leading up to the public announcement of its stakeholder engagement efforts, BroadbandOhio initiated weekly meetings with the RDIA)s to address inclusivity and accessibility of all initiatives. These meetings addressed the locations of in-person listening sessions, survey distribution channels, and necessary inputs for the BEAD and SDOP plans.

To support the RDIA)s, BroadbandOhio provided several resources tailored by region to market stakeholder engagement opportunities, including:

- Creating posters for RDIA)s and local partners to display in public meeting places (such as coffee shops, community centers, and places of worship) about in-person listening sessions
- Drafting emails for RDIA)s to share with local partners to encourage them to participate and to mobilize their own networks to do the same
- Drafting emails for RDIA)s and local partners to send directly to residents marketing in-person and virtual listening sessions and including BroadbandOhio's contact information.

RDIA)s worked with local reporters to publish articles in local newspapers, posted news bulletins in local newspapers, emailed the listservs of their regional CAI)s, worked with local boards of education, and posted signage in various counties to market the in-person listening sessions, particularly communities that are typically harder to reach (notably rural and low-income communities).

The Ohio Library Council provided additional local support by distributing regional posters in libraries throughout the state.

## Transparency and inclusion

Several steps were taken throughout the stakeholder engagement process to ensure transparency and inclusion, including:

- A press release announcing stakeholder engagement efforts and directing readers to the BroadbandOhio website
- A homepage module prominently featured on the BroadbandOhio website with a “Make Your Voice Heard” call to action
- A dedicated webpage with information on BEAD and the Digital Equity Act, details on listening sessions (featuring regular updates as events were added), an Internet Access Survey link, and a printable flyer to share information about listening sessions within communities
- Publication of listening session materials online for public viewing; distribution of presentation materials at all in-person listening sessions
- Marketing of listening sessions through RDIA to increase awareness among covered populations and geographies outside of BroadbandOhio’s hometown. RDIA leveraged numerous local channels to spread the word. (See prior section.)
- Open, in-person Q&A and virtual listening and discussion sessions with the chief of BroadbandOhio
- Attendance of NTIA representatives at all listening sessions
- Weekly meetings with RDIA to share updates and gather feedback.

Significant effort was made to reach underrepresented populations mentioned in the NOFO. The following table outlines how specific populations were reached.

Table 13: Touchpoints by underrepresented population

Population*	Partnership or coalition	Mtgs.	Listening sessions		Interview	Survey
			In-person	Virtual		
- State agencies	- X	- X	-	-	- X	-
- Community anchor institutions	-	-	- X	- X	-	- X
- Nonprofit or community-based organizations	-	-	- X	- X	-	- X
- Civil rights organizations	-	-	- X	-	-	- X
- Labor organizations, unions	-	- X	- X	-	-	-
- Workforce development programs	- X	- X	- X	-	- X	-
- Higher education institutions	-	- X	- X	-	- X	- X
- Local educational agencies	-	-	- X	- X	-	-
- Agencies for adult education or literacy	-	-	- X	-	- X	-
- Public housing authorities	-	-	- X	-	- X	- X
- Organizations representing “diverse stakeholder groups”						
- Individuals w/ disabilities	-	-	- X	-	- X	-
- Individuals 60+	-	-	- X	-	- X	- X

Population*	Partnership or coalition	Mtgs.	Listening sessions		Interview	Survey
			In-person	Virtual		
- English language learners	-	-	- X	-	-	-
- Individuals w/ low literacy	-	-	- X	- X	-	-
- People of color	-	-	- X	- X	-	- X
- LGBTQI+	-	-	- X	-	-	- X
- Immigrants	-	-	- X	-	-	-
- Veterans	-	-	-	-	- X	-
- Incarcerated individuals (excl. federal facilities)	-	-	-	-	- X	-
- Economic development organizations	- X	-	- X	-	- X	-
- ISPs	- X	- X	- X	- X	-	- X
- Public Utility Commission	-	-	-	-	- X	-
- Consumer advocacy	-	-	- X	-	-	-
- Faith-based organizations	-	-	- X	- X	-	-
- Neighborhood associations	-	-	- X	- X	-	-
- Organizations representing additional underrepresented communities						

Population*	Partnership or coalition	Mtgs.	Listening sessions		Interview	Survey
			In-person	Virtual		
- Low-income households	-	-	- X	- X	- X	- X
- Individuals in rural areas	-	-	- X	- X	-	- X

a. \*Populations defined as “diverse stakeholder groups” in BEAD NOFO IV.C.1.c.ii; Tribal Governments not included as there are none in the state of Ohio

## Summary of focused stakeholder engagement opportunities

### In-person listening sessions

Listening sessions at eight sites spanned all five geographic regions of Ohio. Each site visit included four one-hour listening sessions for internet service providers and local businesses, government entities, non-profits, and community organizations, and/or residents.

Accessibility was a deciding factor in selecting all locations. Considerations included hosting events in counties with communities of covered populations, ensuring access to transportation and free parking, and prioritizing trusted, familiar venues for the local population.

Meeting times for each entity were adjusted based on feedback from RDIAAs and other local representatives. Resident sessions were intentionally held late in the day to avoid obstacles related to work and childcare commitments.

Presentation materials and handouts – including contact information and the Internet Access Survey QR code – were distributed at all sessions. Table 2 lists the locations and attendees of the in-person listening sessions.



Table 14: In-person listening session attendance summary

Location	Stakeholder group	Sample entities represented
– Mt Gilead	– ISPs/businesses	– Range of small, local co-ops and statewide providers
–	– Government	– City of Columbus, Morrow County Commissioner, City of Westerville data center lead, Fairfield Economic Development, Ohio Office of the Consumers’ Council, Union County IT Director
–	– Nonprofits	– Ohio Management Council (Connectivity Champions), Ohio Consumer Council, Morrow County Farmers Bureau, Education Service Center of Central Ohio, communication workers’ union
–	– Ohio residents	– N/A
– Rio Grande	– ISPs/businesses	– Range of small, local co-ops and statewide providers
–	– Government	– Local municipality representatives
–	– Nonprofits/community organizations	– Department of Development, OSU Extension, Hocking Athens Perry Community Action, Connectivity Champions
–	– Ohio residents	– Southeast residents
– Cambridge	– ISPs/businesses	– Range of small, local co-ops and statewide providers
–	– Government	– County leadership, planning commission representatives; Library leadership representatives
–	– Nonprofits	– Guernsey County Senior Citizens Center, Inc. & Meals on Wheels Guernsey County
– Xenia	– ISPs/businesses	– Range of small, local co-ops and statewide providers
–	– Government	– City of Dayton CIO, Miami Valley Regional Planning Commission

Location	Stakeholder group	Sample entities represented
–	– Nonprofits	– Ohio Management Council (Connectivity Champions), United Way, National Church Residences, local communications union, Miami Valley Regional Planning Commission
–	– Ohio residents	– Spring Valley Township and Xenia Township residents
– <b>Toledo</b>	– ISPs/businesses	– Range of small, local co-ops and statewide providers, including Buckeye Broadband
–	– Government	– Spencer Township representative, Lucas County, and City of Toledo employees
–	– Nonprofits	– Ohio Management Council (Connectivity Champions), Communication Workers for America, The Ability Center of Greater Toledo, Lucas Metropolitan Housing, Toledo Lucas County Public Library
–	– Ohio residents	– Mostly urban residents (one rural); small business owners (e.g., hairdresser, photographer)
– <b>Findlay</b>	– ISPs/businesses	– Primarily small providers, including Buckeye Broadband
–	– Government	– Findlay-Hancock Community Foundation, Hancock County Office of IT
–	– Nonprofits	– Ohio Management Council (Connectivity Champions), Financial Opportunities Center of Findlay-Hancock County (associated with Habitat for Humanity), Family Center
–	– Ohio residents	– N/A
– <b>Cleveland</b>	– ISPs/businesses	– Combination of small and large providers, including Northcoast Wireless Communications
–	– Government	– Connect Community, Chief Innovation Officer for Cuyahoga County, Digital Equity Inclusion Manager for Cleveland,

Location	Stakeholder group	Sample entities represented
		<ul style="list-style-type: none"> <li>– Community Health Partnerships at Cleveland Clinic, DigitalC, City Engineer for East Cleveland,</li> <li>– Cleveland Public Library</li> </ul>
–	– Nonprofits	<ul style="list-style-type: none"> <li>– Ohio Management Council (Connectivity Champions), Ashbury Senior Computer Community Center (ASC3), MetroHealth, Metro West Community Development, NextGen Interactive, StepForward Training and Education, JumpStart, Wisdom Collaborative in Lake County, East Cleveland Public Library, University Circle Inc., Northeast Ohio Regional Improvement Corporation, Ohio Farm Bureau, Union Miles Community Development, Cuyahoga Valley Career Center, CREW Foundation</li> </ul>
–	– Ohio residents	<ul style="list-style-type: none"> <li>– Cuyahoga Metropolitan Housing Authority, Cleveland Metropolitan School District, Midtown Cleveland representative, ASC3</li> </ul>
– <b>Youngstown</b>	– ISPs/businesses	<ul style="list-style-type: none"> <li>– Mason Cable, Universe Central Association, Lorraine Public Library, Ashtabula County Commissioner, WFMJ (reporter), Packard Motors/Packard Fiber</li> </ul>
–	– Government	<ul style="list-style-type: none"> <li>– Representatives from Canton, Trumbull, and Mahoning Counties; Eastgate Regional Council of Governments</li> </ul>
–	– Nonprofits	<ul style="list-style-type: none"> <li>– Ohio Management Council (Connectivity Champions), Oh Wow! Children’s Center for Science &amp; Technology, Northeast Ohio Regional Improvement Corporation, Ohio Farm Bureau, NDIA, Mercy Health Foundation, Trumbull Community Action, Oak Hill Collaborative, Farmer’s Trust Company, Youngstown Area Jewish Federation, Ohio Improvement Corporation</li> </ul>
–	– Ohio residents	<ul style="list-style-type: none"> <li>– Hubbard County and Ellsworth Township residents</li> </ul>

Note: “Nonprofits” also includes community organizations

## Virtual listening sessions

These sessions consisted of six virtual webinars dedicated to government (1 session), nonprofits or community organizations (1), internet service providers (1), and residents (3). This effort involved:

- Marketing virtual sessions for each stakeholder group in tandem with efforts to convene in-person sessions
- Fostering engagement in digital environments using polls, direct chat functionality between attendees and BroadbandOhio panelists, chat functionality between attendees, a Q&A tool with live answer responses, and live discussion. Table 3 lists the virtual sessions and attendees.

**Table 15: Virtual listening session attendance summary**

Date	Stakeholder groups	Sample attendees
March 17, 2023	Local government	Washington County Commissioner, Northeast Ohio Four-County Regional Planning and Development Organization, Ohio Center for Autism and Low Incidence, Sustainable Columbus, OARnet, FairlawnGig
March 28, 2023	Ohio residents	Rhodes State College Digital Ag; residents of Allen County, Springfield
April 5, 2023	Nonprofits/ community organizations	Columbus Metropolitan Library, Creative Housing, Ohio Connectivity Champions, Montgomery County Educational Service Center, Great Lakes Community Action Partnership, Circle Health Services, Shelby County representatives, non-profit law firm

April 12, 2023	Ohio residents	Advocates for Basic Legal Equality; Omni Fiber; residents of Highland County, Toledo, Mason, Vinton County, Wilmington
April 18, 2023	ISPs	National, statewide, and local internet service providers
May 2, 2023	Ohio residents	Multiple, including advocate for broadband equity in Miami Valley

## Unions and worker organizations

Ohio has engaged unions and worker organizations as part of its broadband-related efforts, including:

- **“Strengthening Ohio's Broadband & 5G Workforce” strategy:** The Communications Workers of America (CWA) has been engaged by the Governor’s Office of Workforce Transformation to solicit input for the above strategy. The discussion covered the projected labor gap, existing workforce and their skillset, and CWA’s suggestions for Ohio regarding workforce readiness, including hiring and re-hiring of workers already equipped with skills, and reviewing safety and training programs currently available.
- **BEAD-SDOP:** Ohio has received input from union and worker organizations during its BEAD process through multiple channels, including:
  - **Listening sessions:** CWA members have attended two BEAD-SDOP listening sessions (Mt. Gilead, Toledo) and have shared perspectives regarding barriers, programs and partners, and solutions and collaboration areas toward bridging the digital divide
  - **Public comment:** CWA has provided input on Volume I of the BEAD Initial Proposal, sharing its input regarding proposed challenge modifications, ways

to maximize transparency and accountability during the challenge process, and suggestions on evaluating submitted challenges.

## State agency interviews

BroadbandOhio engaged 17 state agencies and the Ohio State University Digital Agriculture program in interviews of more than 30 agency representatives to understand their goals, the barriers to broadband access facing the communities they serve, potential solutions that could be accelerated by broadband and digital opportunities, existing programs and partners, and opportunities for collaboration.

Agencies interviewed included:

- Department of Aging
- Department of Agriculture
- Department of Commerce
- Department of Developmental Disabilities
- Department of Education
- Department of Health
- Department of Higher Education
- Department of Job and Family Services
- Department of Natural Resources
- Department of Rehabilitation and Correction
- 
- Department of Transportation
- Department of Veterans Services
- Governor’s Office of Workforce Transformation
- JobsOhio
- Ohio Housing Finance Agency
- Ohio Public Library Information Network (OPLIN)
- Public Utilities Commission of Ohio
- The Ohio State University Digital Agriculture

## Surveys

Three surveys were developed for BEAD and SDOP stakeholder engagement efforts, each of which was targeted at different stakeholder groups. These surveys are the Internet Access Survey, Community Anchor Institution (CAI) Survey, and Public Housing Authority Survey.

### Internet Access Survey

The Internet Access Survey had tailored questions for five different types of stakeholder entities: government entities, non-profit or community organizations, internet service providers, and other private businesses. The survey was developed in partnership with the Ohio Digital Equity manager to ensure that only one survey was needed to meet the objectives for both plans and to avoid “over-surveying.” The survey’s objective was to gather information about broadband infrastructure availability, affordability, digital devices and digital skills, and areas where BroadbandOhio could provide support to a range of stakeholders across the state. The RDIA’s were consulted on survey development and distribution strategy to ensure accessibility and inclusivity.

The Internet Access Survey was primarily distributed through three channels:

1. Print surveys made available at Ohio libraries and RDIA-sponsored community events
  - a. Print surveys mailed to over 10,000 unserved and underserved households; including return postage
  - b. A digital survey link distributed at in-person and virtual BEAD and DE listening sessions, posted on Office of Development social media, and emailed to RDIA local networks and all stakeholders that received the above-mentioned press release via email.

RDIA’s conducted additional surveys in partnership with local colleges and universities. For example, the RDIA for the Northwest region of Ohio (Toledo Lucas County Public

Library) partnered with Bowling Green State University (BGSU) to send surveyors into various communities' downtown areas, where they handed out surveys and helped populations such as senior citizens, individuals with disabilities, and unhoused people to complete the survey.

## CAI Survey

The CAI survey was created to better understand the technology in place at CAIs, the scale of the populations they serve and the access they provide to residents across Ohio. The survey was distributed to CAIs throughout Ohio via the state agencies overseeing these institutions, including the Departments of Aging, Commerce, Education, Health, Higher Education, and Public Safety, and the Ohio Library Council. Together, these entities reach all types of CAIs considered for funding, including colleges, schools (public and private), childcare centers, universities, libraries, hospitals, urgent care centers, public health departments, nursing homes, fire stations, and EMS stations.

## Housing Authority Survey

An online survey was distributed to property developers and managers through the Ohio Housing Finance Agency (OHFA). OHFA began collecting information about wiring in multi-dwelling units (MDUs) in 2020. This survey was built to better understand existing units' size and wiring, MDU residents' connectivity challenges, and barriers property developers and managers face when trying to increase access to affordable internet in their buildings.

## RDIA feedback

Feedback forms were provided to the RDIA's to facilitate data collection at ongoing sessions so that insights from these sessions could be incorporated into the BEAD and SDOP plans. Feedback forms included sample questions to use in listening sessions and space for the RDIA's to capture insights about barriers and strategies pertaining to



broadband. They were also asked to provide information about any physical infrastructure and programming specific to the community participating.

The fourth section of the BEAD Five-Year Action Plan, 5.1 Stakeholder Engagement Process, outlines the takeaways from stakeholder engagement efforts above, and is included in this document, **Appendix 1**.

**a. Impact of above coordination on the Initial Proposal:**

**BroadbandOhio has reflected the results of the above stakeholder coordination into this Initial Proposal in ways including but not limited to the following:**

**Existing Broadband Funding:** BroadbandOhio collaborated with local government and government associations (e.g., CCAO) to understand broadband efforts funded by local monies, ahead of BEAD Challenge Process and the de-deduplication process.

**CAI definition:** BroadbandOhio’s approach to CAIs was discussed with multiple stakeholders during the BEAD-SDOP listening tour, with the RDIA leaders, and published for public comment within the Five-Year Action plan. To identify CAIs and determine their eligibility, BroadbandOhio conducted a state-wide survey, and collaborated with state agencies (e.g., OPLIN, Management Council, Ohio Department of Health) to compile data on CAIs within Ohio, ahead of publishing volume 1 of the Initial Proposal for public comment, and continued to receive feedback during the public comment period.

**Subgrantee process:** BroadbandOhio collected input from ISPs and other stakeholders to understand key factors to be considered for setting EHCPLT, through existing stakeholder groups (e.g., ISP associations such as OTA, OCTA, WISPA, WIA, Broadband Alliance)

**Workforce preparedness:** BroadbandOhio coordinated with Governor's Office of Workforce Transformation to connect with unions and labor organizations (2.3.1), lead implementation of the State of Ohio’s Broadband and 5G Workforce Strategy (2.8.1), and ensure the inclusion of Minority Business Enterprises (MBEs), Women’s Business

Enterprises (WBEs), and Labor Surplus Area Firms (2.9.1). BroadbandOhio also coordinated with the Ohio Department of Development Minority Business Unit to design and identify strategies and data tracking approaches to ensure MBE / WBE / labor surplus area firm inclusion.

**Cost and barrier reduction:** BroadbandOhio collected input on key barriers for broadband deployment from listening session participants, which have been folded into the Five-Year Action Plan when considering key barriers to address, and have shaped mitigation strategies designed. The BroadbandOhio Internet Access Survey also collected insights into key barriers to broadband expansion and adoption.

Key barriers to broadband deployment:

- a. During the statewide listening tour, listening session participants identified the following barriers to deployment (non-exhaustive): Population density, incomplete view of service availability, industry participation, gaps in inside wiring and/or Wi-Fi equipment in multi-dwelling units (MDUs), labor shortage, supply chain issues and materials availability
- b. ISP respondents to the BroadbandOhio Internet Access Survey cited a negative business case due to low density of subscriber, and burdensome costs or processes for access to poles as the top barriers for broadband infrastructure expansion<sup>30</sup>

Key barriers related to non-deployment factors:

- a. During the statewide listening tour, listening session participants identified the following barriers related to non-deployment factors (non-exhaustive): Affordability of subscriptions, knowledge of the Affordable Connectivity Program, customer education and digital literacy, lack of interest

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<sup>30</sup> BroadBandOhio Internet Access Survey, as of July 11, 2023. Response N = 27.

- b. Resident respondents of the BroadbandOhio Internet Access Survey cited broadband availability and price as the top barriers for internet adoption<sup>31</sup>

**Middle class affordability plan:** Leveraged resident responses to the state-wide survey regarding willingness to pay to identify a benchmark for internet plan provided for middle class affordability.

- c. **Ongoing coordination efforts, including how Ohio will fulfill the coordination associated with the Final Proposal**

BroadbandOhio continues to conduct regular coordination efforts listed above in 2.2.1 and in the preceding content here. Specifically, BroadbandOhio intends to provide technical assistance to stakeholders during the challenge process and the subgrantee process, as outlined below:

**Conduct technical assistance during the challenge process to inform and assist stakeholders in understanding the process.** Key efforts to ensure transparency and robust communication with stakeholders include:

- a. A landing page for the Challenge Process prominently featured on the BroadbandOhio website that provides relevant information for the challenge process in one place
- b. State-wide and multi-stakeholder marketing of challenge process leveraging multiple channels, including:
- c. BroadbandOhio's own channels, including webpage postings announcing challenge process and directing readers to the BroadbandOhio website; emails to the Broadband Alliance listserv and to the Broadband Working group (state agency partners); and postings to BroadbandOhio's social media channels

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<sup>31</sup> BroadBandOhio Internet Access Survey, as of July 11, 2023. Response N = 747

- d. RDIA's and their numerous local channels to spread the word, similar to those leveraged for Stakeholder Engagement as outlined in the Five-Year Action Plan, to increase awareness in geographies outside of BroadbandOhio's hometown
- e. Stakeholder groups, such as local government leaders, ISPs and ISP associations, non-profits, CAIs, residents, Broadband stakeholder alliance groups, state government associations, and others
- f. Publication of relevant documentation (e.g., guidebook, frequently asked questions, any applicable submission templates) on the BroadbandOhio website prior to launch of challenge process
- g. Public webinar(s) / technical assistance / Frequently Asked Questions with BroadbandOhio leaders prior to launch of challenge process to walk stakeholders through the challenge process and address any questions

**Conduct technical assistance during the subgrantee selection process to inform and assist stakeholders in understanding the process.** Key efforts to ensure transparency and robust communication with stakeholders include:

- a. A landing page for the Subgrantee Selection Process prominently featured on the BroadbandOhio website that hosts relevant information for the subgrantee selection process in one place
- b. State-wide and multi-stakeholder marketing of subgrantee selection process leveraging multiple channels, including:
- c. BroadbandOhio's own channels, including webpage postings announcing subgrantee selection process and directing readers to the BroadbandOhio website; emails to the Broadband Alliance listserv and to the Broadband Working group (state agency partners); and postings to BroadbandOhio's social media channels
- d. RDIA's and their numerous local channels to spread the word, similar to those leveraged for Stakeholder Engagement as outlined in the Five-Year Action Plan, to increase awareness in geographies outside of BroadbandOhio's hometown

- e. Stakeholder groups, such as local government leaders, ISPs and ISP associations, non-profits, CAls, residents, Broadband stakeholder alliance groups, state government associations, and others
- f. A public hearing of the Broadband Expansion Program Authority to approve the application, guidebook, and final timeline for the grant program
- g. Publication of relevant documentation (e.g., guidebook, frequently asked questions, any applicable submission templates) on the BroadbandOhio website prior to launch of subgrantee selection process
- h. Public webinar(s) / technical assistance / Frequently Asked Questions with BroadbandOhio leaders prior to launch of subgrantee selection process to walk stakeholders through the subgrantee selection process and address any questions

To ensure fulfillment of the coordination requirements associated with the Final Proposal, the activities above will be executed to ensure the following:

- a. Full geographic coverage: Continuation of ongoing coordination efforts with RDIA's to ensure geographic coverage
- b. Diverse stakeholder groups: Continuation of ongoing coordination efforts with RDIA partners and existing alliances to ensure diverse stakeholder engagement
- c. Multiple awareness and participation mechanisms:
- d. Continuation of utilizing multiple awareness efforts to collect feedback during public comment periods for Initial Proposal and Final proposal
- e. Continued ongoing engagement with stakeholders to encourage participation in Challenge process & Subgrantee process
- f. Transparency of processes:
- g. Holding public comment periods stipulated by BEAD
- h. Technical assistance for challenge process and subgrantee process, outlined above

- i. Outreach and engagement of unserved and underserved communities:  
Continuation of engagement with local, trusted non-profits and other state agencies representing traditionally under-represented communities via ongoing engagement efforts

**(Req 2.3.1.1)** Local Coordination Tracker Tool to certify that the Eligible Entity has conducted coordination, local community organizations, unions and work organizations, and other groups.

The Local Coordination Tracker Tool for BroadbandOhio regarding its stakeholder coordination efforts to date has been provided in attachment [[Local Coordination Documentation Tracker 2023 Ohio.xlsx](#)].

**(Req 2.3.2)** Not applicable to Ohio. Ohio does not encompass any federally recognized Tribes, and consequently has not conducted a formal consultation process.

# Deployment Subgrantee Selection (Requirement 8)

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**(Req 2.4.1):** Description of BroadbandOhio’s detailed plan to award subgrants to last-mile broadband deployment projects through a fair, open, and competitive process.

The policies, processes, and procedures defined in the Ohio Residential Broadband Expansion Grant (ORBEG) program are BroadbandOhio’s starting point for the plan to award subgrants to last-mile broadband deployment projects through a fair, open, and competitive process.<sup>32</sup> However, those processes and procedures have been adjusted to enable full compliance with the BEAD requirements.

To enable subgrantees to have the workforce to complete implementation, BroadbandOhio plans to invest BEAD deployment funds in workforce skilling and expansion initiatives. The details of those plans are also described below.

## Description of the detailed plan to award subgrants

The details of Ohio’s plan to award subgrants to last mile-broadband deployment projects are provided across sections 2.4.2 (scoring rubric), 2.4.3 (prioritization approach), 2.4.5 (compliance with Environmental and Historic Preservation (EHP) and Build America, Buy America Act (BABA)), 2.4.6 (project area definition and proposal

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<sup>32</sup> [NTIA BEAD Initial Proposal Guidance](#), p.38.

deconfliction), 2.4.7 (plan to engage with prospective subgrantees if locations are left unserved or underserved), 2.4.9 and 2.4.10 (identification of and use of the extremely high cost per location threshold), and 2.4.11-2.4.17 (subgrantee qualifications). A high-level description of the detailed plan is provided here.

BroadbandOhio plans to run at most two rounds of a modified ORBEG program to competitively identify and provisionally award subgrant applications in a fair and open process, which prioritizes end-to-end fiber-optic projects, reaches all unserved and underserved locations in the state, and requires a minimal BEAD outlay.

### Pre-Application Process

Aligned with the goals of openness and fairness, BroadbandOhio will provisionally set the extremely high-cost per location threshold (EHCPLT) leveraging relevant data, and insights on prior application proposals from the ORBEG Round 2 grant process, which will be run during Q4 2023 – Q1 2024. BroadbandOhio will reserve the right the lower the threshold if it becomes clear during the subgrantee process that a lower EHCPLT is necessary to reach universal coverage.

Thirty days prior to the BEAD subgrantee process application period, BroadbandOhio will open the pre-qualification filing window for prospective subgrantees. During this filing window, prospective subgrantees will be required to submit their materials and any required certifications to demonstrate their qualifications, including qualifications pertaining to financial, operational, managerial, technical, compliance, ownership, and other public funding. Providers who meet all subgrantee qualifications will be able to participate in the BEAD subgrantee process. All those who qualify must sign an agreement with BroadbandOhio that, should their application be selected for BEAD awards at the same grant amount requested by the applicant or a lower agreed amount, they must accept the award and commit to delivering the deployment project in the required timeframe.



## Application Process for Initial Round

The initial round will be exclusively for priority broadband projects that will submit an application to fund an entire project area unit for \$1. Applicants will need to demonstrate that they can deliver BEAD- compliant deployment and service without any grant funds to the PAU. The provider making the \$1 application offer must provide sufficient evidence that they are currently providing service within the project area or in a project area immediately adjacent to the project area of the application. \$1 applications will not be accepted during any subsequent rounds of funding. Only those internet service providers that have completed the pre-qualification process to be a BEAD applicant will be allowed to make a \$1 application.

If an ISP submits a \$1 application and fails to build the project, they will be required to either pay the state the greenfield NPV per past cost calculated by CostQuest at the time of application or at the time of the failure to build, whichever is higher. Applicants will have the full BEAD build out period to complete construction. However, \$1 bid awardees will be required to provide BroadbandOhio with a build-out schedule detailing milestones, similar to the agreements that will be entered into for other award winners. If these milestones are not met, BroadbandOhio and the Broadband Expansion Program Authority can find that the \$1 bid awardee has failed to build prior to the conclusion of the entire build period. \$1 bid awardees will be required to follow all other reporting requirements for the program.

Applicants who submit a \$1 bid will be scored against other \$1 bids, in the same manner, using the same post application scoring process detailed below.

This \$1 application will enable minimizing BEAD outlay by accounting for any ongoing deployment efforts by providers that would have been completed for eligible locations without the existence of BEAD funding, thereby saving funds for those areas with no existing deployment efforts.

\$1 bids will be tentatively awarded, and project area units with successful \$1 bids will be removed for future application rounds.

## Application Process for Second Round

Qualified prospective subgrantees would be allowed to submit applications for any subset of Ohio project area units, minus the tentatively awarded \$1 bid project area units, where project area units are mutually exclusive and collectively exhaustive groupings of all unserved, underserved locations, and eligible CAIs in the Ohio Broadband map. Project area units will initially be census block groups or collections of census block groups in Ohio. Applications can include any subset of project area units and will be required to provide service to all unserved and underserved locations within each project area unit in the application, and may choose to provide 1Gbps symmetrical service to eligible CAIs for additional scoring points (as described in 2.4.2). As described in section 2.4.3, the NTIA-CostQuest greenfield fiber business case modeling data will be leveraged to provide a reference subsidy level per project area unit, which will be a reference price in the scoring mechanism.

## Post-Application Scoring Process

Applications will be reviewed, scored, deconflicted, and provisionally awarded according to the prioritization process, scoring process, and deconfliction process described in sections 2.4.3 and 2.4.6, respectively.

\$1 bids will be provisionally awarded. Then Uncontested Priority Broadband Projects will be provisionally awarded.

Applications for Priority Broadband Projects will be scored using the scoring rubric described below. Applications with the highest scores will be provisionally awarded, and providers who have submitted applications in conflicting project areas that did not win will be engaged in the deconfliction process described below. After the deconfliction process for Priority Broadband Projects is run, BroadbandOhio will assess the projected total BEAD outlay accounting only for Priority Broadband

Projects. If the projected outlay exceeds BroadbandOhio's BEAD allocation, BroadbandOhio will score, deconflict, and make provisional awards for applications for non-fiber, reliable technologies where the provisionally awarded application exceeds the EHCPL threshold.

### Third Grant Round

If there are any project area units remaining after the first ORBEG-BEAD grant round, BroadbandOhio will determine if another grant round is required, or if the remaining project area units can be addressed through negotiations with providers already offering service in adjacent areas, or who have won BEAD grants in adjacent areas. If a final round of ORBEG-BEAD is necessary, BroadbandOhio will consider revisions to the EHCPLT to set it as low as possible to enable participation by all technologies, and applications using all fixed, wireless and satellite technologies will be considered. Any areas remaining for Round 2, including "no-bid" PAUs, would have low demonstrated interest by fiber entrants as reflected in the lack of bids in Round 1. Therefore, BroadbandOhio deems it important to have applications of all technologies available for these areas to ensure universal service of the state and will consider adjusting the EHCPLT to enable such participation. Beyond the EHCPLT, BroadbandOhio will also consider additional steps to encourage participation during the subsequent round, which are described below. Both during negotiations and during a potential final grant round, BroadbandOhio will consider further breaking up existing project area units into smaller subdivisions.

### Treatment of CAIs

During the above grant rounds, eligible CAIs in the respective project areas will be optional for prospective subgrantees to cover. If the prospective subgrantee chooses to deploy to the eligible CAIs in the respective project area, they must provide service to all eligible CAIs in the project area. Those subgrantees that can provide 1Gbps symmetrical speeds to these eligible CAIs will be awarded points during the subgrantee scoring process and subsequent funding for reaching those eligible CAIs.

For all eligible CAIs remaining without 1Gbps symmetrical service after all unserved and underserved locations are funded, Ohio will run a separate RFP to solicit bids to provide 1Gbps symmetrical service. Should it be determined that there would be no funding anticipated to remain after serving all unserved and underserved locations in Ohio, CAIs will be descoped from the awards.

After all provisional awards are set, BroadbandOhio will do a final review of the selected applicants and their qualification materials to confirm that they sufficiently meet all subgrantee qualification requirements for delivering BEAD-compliant deployment projects. Only those applicants that meet these BEAD-specified qualification requirements will be selected for final awards. Once this final screening is complete, the provisional awardees will be submitted to NTIA for review as part of the BEAD final proposal. Once approved, awards will be made to the winning providers.

**Safeguards to ensure fairness, including those specifically to protect against collusion, bias, conflicts of interest, and arbitrary decisions:**

- A. **Safeguards against collusion:** As part of its ORBEG process, BroadbandOhio requires all prospective subgrantees to sign an Authorized Representative Declaration Form, including attestations that all provided information is correct.<sup>33</sup> As part of BEAD application requirements, BroadbandOhio will require all prospective subgrantees to sign an Authorized Representative Declaration Form, which will specifically include an attestation that the prospective subgrantee has not colluded with any entities or persons, neither through public statements nor private communications.
- B. **Safeguards against bias:** The required qualifications for subgrantees will be widely published so that all potential applicants may review them and consider applying for funds if they meet the requirements. Potential subgrantees' qualifications will be assessed according to the process described in 2.4.11 – 2.4.17 by reviewers who must submit an affidavit attesting that they do not have any conflicts of interest that could introduce bias into the process. In addition, subgrantee qualifications and subgrantee selection criteria are published in this document for public comment (held prior to the Dec 27<sup>th</sup>, 2023 deadline).
- C. **Safeguards against conflicts of interest:** BroadbandOhio will require that all application reviewers submit affidavits to ensure that there are no conflicts of interest, biases, or favoritism in reviewing and scoring applications. BroadbandOhio will additionally require all state employees and contractors involved in the BEAD process to submit an affidavit to ensure that there are no conflicts of interest in overseeing the BEAD process.
- D. **Safeguards against arbitrary decisions:** BroadbandOhio will define and publish its evaluation and scoring criteria to ensure that all applications are

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<sup>33</sup> See, for instance, ORBEG Round 1 application form [here](#).

judged in a manner that complies with established decision-making criteria, thereby preventing arbitrary decisions. In addition, records will be retained and submitted to NTIA for further review as part of the Final Proposal.

### Steps to make the subgrantee award process open

To ensure that the process is open, BroadbandOhio will take the following steps regarding public notice to potential subgrantees so that a wide variety of potential applicants may participate.

Public notification regarding the BEAD-funded grant round will commence after NTIA has approved the Initial Proposal and at least 30 days prior to the due date of applications. Applications will be posted online 30 days prior to the due date, which is consistent with ORBEG procedures for public notices. Public notification will be conducted through the following channels:

1. **Information** regarding the subgrantee selection process will be available on the BroadbandOhio website and will include all documentation (e.g., a guidebook, frequently asked questions, applicable submission templates), subgrantee qualifications and accountability measures, scoring information, and timeline for the subgrantee selection process.
2. **Press releases** will be shared by the Department of Development and BroadbandOhio to publicize the timeline and direct stakeholders to channels where they can find more information.
3. **Notification and promotion** via key channels and stakeholders, including:
4. **BroadbandOhio's own channels**, including webpage postings announcing the subgrantee selection process and directing readers to the BroadbandOhio website, emails to the BroadbandOhio Alliance listserv and to the Broadband Working Group (state agency partners), and postings to BroadbandOhio's social media channels. In-person engagement will be conducted at the Broadband Alliance's quarterly meetings, where attendees include statewide stakeholders such as state and local government leaders, representatives from

ISPs and ISP associations, and digital inclusion leaders from CAIs and non-profits.

5. **RDIA**s and their numerous local channels with residents, non-profits, and CAIs—similar to those used to engage stakeholders as outlined in the Five-Year Action Plan—to increase awareness via their email list-servs and in-person meetings.
6. **Engagement with local government partners**, such as local government leaders, ISPs and ISP associations, non-profits, CAIs, residents, broadband stakeholder alliance groups, state government associations, and others.
7. **Engagement** with ISPs and ISP associations, non-profits, CAIs, residents, broadband stakeholder alliance groups, state government associations, and others.
8. **Technical assistance**, including public webinars and Q&A sessions, with BroadbandOhio leaders to explain the subgrantee selection process and address any questions prior to launching the process.

Consistent with ORBEG requirements, BroadbandOhio will also post all public record information from each complete application submitted on or before the last day of the application period. The information will be posted on the program website no later than 35 days from the end of the application period.<sup>34</sup>

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<sup>34</sup> [Ohio Administrative Code, Rule 122](#)

## Steps to ensure that the subgrantee award process is competitive

To ensure the process is competitive, BroadbandOhio will take the following steps:

1. Notify the public of the subgrantee process and eligibility requirements. As described above, BroadbandOhio will conduct statewide and multi-stakeholder marketing of the subgrantee selection process using multiple channels to seek broad participation. Providers who meet the subgrantee qualifications and who agree to abide by the sub-granting accountability procedures (defined in 2.4.11 – 2.4.17 and 2.16.2) will be eligible to compete.
2. Use competitively neutral evaluation criteria. The subgrantee selection criteria are designed to place qualifying potential subgrantees on equal footing and to protect Ohio and its residents from the risks associated with less experienced providers.
3. Review and assess applications fairly without conflicts of interest, favoritism, and bias. As described above, application reviewers and scorers will be required to submit affidavits attesting to the lack of conflicts of interest.
4. Set project area unit (PAU) size that a range of provider sizes can cover. The number of unserved and underserved locations in project area units ranges from 1 to over a thousand, with over 2,600 of the approximate total of 4,200 PAUs having less than 50 locations. This range in size of PAUs and the approach that allows providers to submit applications for any subset of PAUs will allow providers of varying sizes to participate in the subgrantee selection process.

(Req 2.4.2) Description of how the prioritization and scoring process will be conducted, consistent with the BEAD NOFO requirements on pages 42 – 46.



## Prioritization process

Ohio's subgrantee selection process will prioritize proposals for Priority Broadband Projects that minimize BEAD outlay and include project area units with a high proportion of unserved locations, while balancing the need to incentivize providers to apply for project area units that include underserved locations, which improves the provider's business case. The following steps outline how the process will be conducted in a manner consistent with the BEAD NOFO requirements.

1. **Set project area units that consist of non-overlapping groupings of unserved and underserved locations, and eligible CAIs.** ISPs will be required to serve all unserved and underserved locations within a PAU awarded to them but may choose to serve the set of CAIs in the given PAU, which would help prioritize unserved and underserved locations over CAIs. BroadbandOhio will also reserve the right to descope CAIs in case there is no funding anticipated to remain after serving all unserved and underserved locations.
2. **Awards PAUs to qualifying \$1 bids** that have been adjudicated and upheld by BroadbandOhio, as described above, to minimize BEAD outlay
3. **Make default awards** for uncontested Priority Broadband Project commitment offers that have been adjudicated and upheld by BroadbandOhio, as described above, to minimize BEAD outlay.
4. **Apply the scoring rubric** to contested project areas first to Priority Broadband Projects, before considering non-fiber projects (whether contested or uncontested).
5. **Consider non-fiber projects only if:**
  - a. There are project area units that did not receive a Priority Broadband Project proposal, or,
  - b. If non-fiber projects are needed to achieve full coverage, which can be achieved through application of the extremely high cost per location threshold.

As described in Requirements 2.4.1 and 2.4.3, BroadbandOhio will run at most two competitive grant rounds that allow eligible applicants who meet all gating criteria and qualifications to submit applications for any subset of the project area units defined by BroadbandOhio. If funds remain after making provisional awards to subgrantees for all unserved and underserved locations, and there are remaining CAIs without 1Gbps service, BroadbandOhio will conduct an RFP process to identify subgrantees that will be awarded a grant to pass eligible CAIs. This process is also defined below.

Within the competitive grant process, BroadbandOhio will prioritize Priority Broadband Projects from applicants that satisfy all subgrantee qualifications. If only one qualifying Priority Broadband Project is proposed for a given project area, and its average cost per location does not exceed BroadbandOhio's Extremely High Cost Per Location Threshold (EHCPLT), that proposal will be the default winner.

BroadbandOhio will compare proposals using the scoring rubric outlined below. These applications will be scored in the same round, in the same manner, using the same scoring rubric and methodologies as all applications.

If no qualifying Priority Broadband Projects are proposed for a given project area, all proposals for other last-mile broadband deployment projects will be assessed using the scoring rubric outlined below.

If it is determined that Ohio will not reach all unserved or underserved locations with its given BEAD funding amount, BroadbandOhio will first prioritize awarding provisional awards for persistent poverty counties as defined by the NOFO (Athens county) through the process described in 2.4.10 below, and in project areas with a high proportion of unserved locations.<sup>35</sup> BroadbandOhio will also reserve the right to

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<sup>35</sup> For the purposes of this requirement, high poverty areas are areas in which the percentage of individuals with a household income that is at or below 150 percent of the poverty line applicable to a family of the size involved (as determined under Section 673(2) of the Community Services Block Grant Act (42 U.S.C. § 9902(2)) is higher than the national percentage of such individuals. Persistent poverty counties are counties that have had poverty rates of 20

descope underserved locations and CAIs if it is estimated that all unserved and underserved locations cannot be reached through the BEAD allocation.

## Scoring process

After identifying default winners, the scoring criteria below will be used to decide among competing proposals, first for Priority Broadband Projects, then subsequently for other last-mile broadband deployment projects, in accordance with the BEAD NOFO, pages 42 - 46.

**Priority criteria (75% of total subgrantee scoring weight) include the following:**

**Minimum BEAD outlay (550 points, 55% of total subgrantee scoring weight).**

BroadbandOhio will evaluate a prospective project's total BEAD funding required to complete the project, accounting for both total projected cost and the prospective subgrantee's proposed match (which must—absent a waiver—cover no less than 25% of the project cost), with the specific points or credits awarded increasing as the BEAD outlay decreases. To ensure that the requested BEAD outlay is efficiently applied toward meeting BEAD objectives, BBOH will evaluate applicants as follows:

**For total BEAD outlay sub-criterion (275 points):**

Scores will be equal to 275 multiplied by the percentile ranking of each application based on the funds requested divided by the number of locations requested.

- Determine, for each individual application in a given project area, the total BEAD outlay per eligible address in the application by calculating the quotient of the amount of program grant funds requested for the application divided by the number of eligible addresses in the application.
- Rank, from lowest to highest cost, all individual applications by total BEAD outlay per eligible address.

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percent or greater for at least 30 years as calculated by the Economic Research Service in the Department of Agriculture.

- Assign each application a percentile based on its total BEAD outlay per eligible address relative to all other applications' total BEAD outlay per eligible address.
- Then, for each project area unit, applications above the specified reference cost upper bound in the given project area will be given 0 points.
- Applications for a given project area will then be percentiled against each other and given a score for the given project area.

***Broadband service cost score calculation example:***

To calculate the broadband service cost score, BroadbandOhio will first take all applications throughout the state and rank them into cost percentiles.

BroadbandOhio will then take that percentile and multiply it by 275.

**(Example 1):** Assume an applicant is ranked in the 50th percentile based on its total BEAD outlay per eligible address relative to all other applications. BroadbandOhio would multiply 50% by 275 ( $275 * 0.5 = 138$ )

**For match sub-criterion (275 points):**

Scores will be equal to the ratio of grant request to match in excess of 25% of project cost (i.e., match amount above 25% minimum divided by grant request), multiplied by 100 and then divided in half. The maximum available points an applicant can receive in this section is 275, even if the result of the calculation is greater than 275.

***Match calculation example:***

- **(Example 1):** Assume the total project cost is \$1 million, and the applicant requests \$250,000. BroadbandOhio would:
  - Calculate the match by subtracting the request from the total project cost ( $\$1,000,000 - \$250,000 = \$750,000$ )
  - Identify the proposed match amount beyond the 25% minimum ( $\$1M * 25\% = \$250,000$ .  $\$750,000 - \$250,000 = \$500,000$ )
  - Divide the applicant's remaining match by the request ( $\$500,000 / \$250,000 = 2$ )
  - Multiple the result by 100 ( $2 * 100 = 200$ )

- Divide the result by 2 ( $200/2 = 100$ )
  - Check if the result is less than or equal to 275 ( $100 < 275$ )
  - Given that the result is less than 275, award 100 points to the applicant
- **(Example 2):** Assume the total project cost is \$1 million, and the applicant requests \$115,000. BroadbandOhio would:
- Calculate the match by subtracting the request from the total project cost ( $\$1,000,000 - \$115,000 = \$885,000$ )
  - Identify the proposed match amount beyond the 25% minimum ( $\$1M * 25\% = \$250,000$ .  $\$885,000 - \$250,000 = \$635,000$ )
  - Divide the applicant's remaining match by the request ( $\$635,000/\$115,000 = 5.5$ )
  - Multiply the result by 100 ( $5.5 * 100 = 550$ )
  - Divide the result by 2 ( $550/2 = 275$ )
  - Check if the result is less than or equal to 275 ( $275 = 275$ )
  - Given that the result is equal to 275, award 275 points to the applicant
- **(Example 3):** Assume the total project cost is \$1 million, and the applicant requests \$100,000. BroadbandOhio would:
- Calculate the match by subtracting the request from the total project cost ( $\$1,000,000 - \$100,000 = \$900,000$ )
  - Identify the proposed match amount beyond the 25% minimum ( $\$1M * 25\% = \$250,000$ .  $\$900,000 - \$250,000 = \$650,000$ )
  - Divide the applicant's remaining match by the request ( $\$650,000/\$100,000 = 6.5$ )
  - Multiply the result by 100 ( $6.5 * 100 = 650$ )
  - Divide the result by 2 ( $650/2 = 325$ )
  - Check if the result is less than, greater than, or equal to 275 ( $325 > 275$ )
  - Given that the result is greater than 275, award 275 points to the applicant

**Affordability (100 points, 10% of total subgrantee scoring weight).** BroadbandOhio will evaluate the prospective subgrantee's commitment to provide the most affordable total price to the customer for 1 Gbps/1 Gbps service in the project area for priority broadband projects, or 100/20 Mbps service in the proposed service area for

projects that are not priority broadband projects. Specifically, all applicants' proposed plan rate for the respective speeds above will be ranked against the statewide, weighted average rate proposed by all BEAD applicants, and applications will receive a score based on their rank.

In order to implement the above scoring process, BroadbandOhio will require, as part of the application content, a customer service rate table from each applicant that specifies the committed rate for a plan in line with the speeds listed above. BroadbandOhio will use that information to calculate a statewide average price among BEAD prospective subgrantees for plans with the commensurate speed specifications. Specifically, the rates provided by applicants will be leveraged to calculate a weighted statewide average by proportion of all eligible BSLs that each application represents. Then, each application's commensurate rate will be ranked in comparison to the calculated statewide average plan rate above, by calculating each application's count of standard deviations away from the statewide average rate, and percentiling the deviation across all applications. The lowest cost will receive the highest score according to the scoring criteria.

**Fair labor practices (100 points, 10% of total subgrantee scoring weight).** Per BEAD requirements, BroadbandOhio will prioritize projects based on a prospective subgrantee's demonstrated record of compliance with federal labor and employment laws, as well as their plans to continue that compliance.

**BroadbandOhio will allocate points as follows:**

**Category A:** Applicants with a record of past compliance with federal labor and employment law and applicants with no prior record of compliance (May earn a maximum of 100 points)

***Federal labor and employment law compliance sub-criterion (60 points)***

- 60 points: An applicant that certifies a record of past compliance with federal labor and employment law with respect to broadband deployment projects, or

any other construction projects, as supported by submitted documentation specified in Req. 2.7.1.

- 60 points: An applicant that demonstrates it is a new broadband provider and has not led other construction projects, and for this reason does not have any prior record of compliance. Note that ministerial changes (e.g., a company name change) are not considered sufficient for an entity to be considered a new broadband provider.

***Forward-looking commitments sub-criterion (40 points)***

An applicant will earn points by committing to hire a percentage of its project workforce from apprenticeship program participants. Points will be awarded as follows:

- 20 points by committing to hire 1%
- 40 points by committing to hire 2%

**Category B:** Applicants with a negative record of compliance (May earn a maximum of 100 points)

***Federal labor and employment law compliance sub-criterion (0 points)***

- 0 points: Applicants with a negative record of compliance will receive 0 points in the federal labor and employment law compliance sub-criterion section

***Forward-looking commitments sub-criterion (100 points)***

An applicant will earn points by committing to hire a percentage of its project workforce from apprenticeship program participants. Points will be awarded as follows:

- 20 points by committing to hire 1%
- 40 points by committing to hire 2%
- 60 points by committing to hire 3%
- 80 points by committing to hire 4%
- 100 points by committing to hire 5%

The binding commitment to hire apprenticeship program participants, either through the “Strengthening Ohio’s Broadband & 5G Workforce” strategy specifically or through

another qualified apprenticeship program, will be enforced by tying the committed hiring levels to funding reimbursement, where subgrantees will define applicable hiring goals as part of their project milestones, and any unmet percentage in hiring goals will be proportionally deducted from the funding to be reimbursed (e.g., if a milestone defined that 5% of its workforce would be hired from apprenticeships, but only hired 4% of its workforce, 80% (4% / 5%) of the funding will be disbursed for that particular milestone). All Strategy participants will hold industry-recognized credentials, which will help ensure strong labor standards and protections of the project workforce via the use of an appropriately skilled and credentialed workforce. Further details can be found in **Workforce Readiness (2.8.1)**.

Additionally, as part of its subgrantee qualifications, and with the aim of meeting BEAD's mandate to ensure that subgrantees, contractors, and subcontractors use strong labor standards and protections, BroadbandOhio will require all prospective subgrantees to submit:

- a. Information regarding labor standards and protection. As part of BEAD's Labor Standard and Protection requirement (2.7.1), BroadbandOhio will require the following information:
- b. Record of past compliance with federal labor and employment laws, which must include information on these entities' compliance with federal labor and employment laws on broadband deployment projects in the last five years.
- c. Certification from an officer/director-level employee (or equivalent) of the prospective subgrantee evidencing that the prospective subgrantee, as well as all contractors and subcontractors, has consistently complied with federal labor and employment laws.
- d. Written confirmation that the prospective subgrantee has disclosed any instances in which it or its contractors or subcontractors have been found to have violated laws such as the Occupational Safety and Health Act, the Fair Labor Standards Act, or any other applicable labor and employment laws within the preceding five years.



- e. Plans for ensuring compliance with federal labor and employment laws, which must include the following:
- f. Information on applicable wage scales and wage and overtime payment practices for each class of employees expected to be involved directly in the physical construction of the broadband network.
- g. How the subgrantee will establish workplace safety committees that are authorized to raise health and safety concerns related to the delivery of deployment projects and with whom management may meet upon reasonable request.
- h. A record and explanation of any Occupational Safety and Health Administration (OSHA) violations within the past five years preceding the application date
- i. A record and explanation of any de-certification from procurement by any U.S. states within the past five years preceding the application date

Further details on BroadbandOhio’s requirements related to Labor Standards and Protections are provided in **2.7.1**.

## **Secondary criteria (25% of total subgrantee scoring weight) include the following:**

### **Speed to deployment (25 points, 2.5% of total subgrantee scoring weight).**

BroadbandOhio will prioritize prospective subgrantees’ binding commitment to provide service by an earlier date, subject to contractual penalties to BroadbandOhio.

Specifically:

- 12 points for those promising deployment not later than 3 years;
- 18 points for those promising deployment not later than 2 years; and
- 25 points for those promising deployment not later than 1 year.

**Speed of network (50 points, 5% of total subgrantee scoring weight).**

BroadbandOhio will prioritize projects with greater speeds, with weights assigned in the following manner:

- 6 points for broadband speeds that are greater than 100 Mbps downstream and 20 Mbps upstream, but less than 250 Mbps downstream and 50 Mbps upstream
- 13 points for broadband speeds that are 250 Mbps or greater downstream and 50 Mbps upstream, but less than 500 Mbps downstream and 100 Mbps upstream
- 25 points for broadband speeds that are 500 Mbps or greater downstream and 100 Mbps or greater upstream, but less than 750 Mbps downstream and 250 Mbps upstream
- 31 points for broadband speeds that are 750 Mbps or greater downstream and 250 Mbps or greater upstream, but less than 1Gbps downstream and 500 Mbps upstream
- 36 points for broadband speeds that are 1Gbps or greater downstream and 500 Mbps or greater upstream, but less than 1Gbps upstream
- 50 points for broadband speeds that are 1Gbps or greater downstream and 1Gbps or greater upstream

**Technical capabilities (50 points, 5% of total subgrantee scoring weight).**

BroadbandOhio will prioritize projects with greater scalability (i.e., ability to reach 1Gbps symmetrical speed) and latency (at most 100 milliseconds of latency), with weights assigned in the following manner:

- 50 points for end-to-end fiber projects
- 40 points for scalable, non-fiber technologies meeting latency requirements (e.g., cable, HFC; licensed FWA technologies designed for scalability)

- 30 points for other reliable broadband technologies that have limited ability to meet latency requirements (e.g., licensed FWA)
- 20 points for non-reliable broadband technologies (e.g., unlicensed FWA, satellite)

**Local support for application (25 points, 2.5% of total subgrantee scoring weight).**

BroadbandOhio will prioritize projects with local support, assigning a maximum 2.5% out of a total scoring weight in the following manner:

- 13 points if the application includes a resolution of support from the board of county commissioners in the county where the eligible project is located.
- If an application's eligible project spans multiple counties, of the total 13 points for resolutions adopted by boards of county commissioners, the number of points awarded pro rata, based on the percentage of eligible addresses for the project in each affected county for which the board of county commissioners adopted a resolution of support.
- 7 points if the application includes a letter of support from a board of township's trustees, a village, or a municipal corporation.
- If an application's eligible project spans multiple townships, villages, and municipal corporations, of the total 7 points for letters from boards of township trustees, villages, or municipal corporations, the number of points awarded pro rata according to the percentage of eligible addresses for the project in each affected village, municipal corporation, and unincorporated area of the township for which a board of township trustees, village, or municipal corporation submitted a letter of support.
- 5 points for letters of support from a local economic development agency or a chamber of commerce that advocates for an area of the eligible project with the majority of eligible addresses in the application.

**General experience and technical/financial ability (75 points, 7.5% of total subgrantee scoring weight).** BroadbandOhio will prioritize subgrantees with

demonstrated general experience and technical and financial ability as judged by the Broadband Expansion Program Authority. **BroadbandOhio will allocate points as follows:**

**Financial ability sub-criterion (38 points)**

- A. **10 points:** The total project cost of each of an applicant's three largest completed projects (individually, not cumulatively) are no less than 90% of the total project cost of the applicant's current application(s) (e.g., if the size of the current application is \$1,000,000, then in order to receive the points, the applicant's 3 largest projects would each have been \$900,000 or more)
- B. **20 points:** In addition to (A), the applicant also demonstrates it has successfully managed a local, state, or federal broadband infrastructure grant
- C. **38 points:** In addition to (B), the applicant also demonstrates that (a) it has never defaulted on a broadband project (including, but not limited to, RDOF) and (b) never delayed the implementation of any broadband project within the last three years, including but not limited to local, state, or federally funded projects. The applicant also provides independently audited financial statements.

**Mitigation (10 points) :** In cases where an applicant (a) is applying for a project 10% larger or more than what it has previously managed, (b) has never managed federal funding, or (c) has experienced defaults or delays in the last 3 years, BBOH will further review a) the business plan and related analyses that show sustainability of the proposed project (e.g., pro forma statements / analyses) including at least 3 years of operating cost and cash flow projections post targeted completion of project); b) copies of federal and state tax returns, or, c) if deemed necessary by BBOH, performance bond, letter of credit, or other financial assurance. In these cases, and based on BBOH's assessment of the documents described above, applicants may be awarded up to 10 points.

**Technical experience sub-criterion (37 points):**

- A. **10 points:** The total scale (e.g., homes past) of each of an applicant's three largest completed projects are each no less than 90% of the total scale of the applicant's current application(s) (e.g., if the current application covers 1,000,000 homes past, the applicant's 3 largest projects would each cover at least 900,000 or more)
- B. **20 points:** In addition to (A), the applicant also demonstrates it has successfully managed a local, state, or federal broadband infrastructure grant
- C. **37 points:** In addition to (B), the applicant provides proof that (a) it has never defaulted on a broadband project (including, but not limited to, RDOF) and (b) never delayed the implementation of any broadband project within the last three years, including but not limited to local, state, or federally funded projects

**Mitigation (10 points):** Applicants will have an option to mitigate points lost by providing a description of mitigating circumstances and related material (e.g., letters of support, endorsements from independent agencies testifying to the applicants' technical capabilities). In these cases, and based on BBOH's assessments of the documents of support submitted, applicants may be awarded up to 10 points.

An applicant will be additionally required to disclose the following about previous local, state, or federally funded projects:

- If the applicant has completed every project it has started (for every project they have not completed, applicants will lose 5 points)
- If the applicant has had to request timeline extensions for any grant-funded broadband infrastructure project it has been previously awarded (for every project it has had to request extensions, applicant will lose 5 points)
- If it has ever defaulted on any grant-funded project. (for every project it has defaulted on, applicant will lose 5 points)

**1Gbps symmetrical speed to CAIs (25 points, 2.5% of total weight).** For those applicants that commit to providing 1Gbps symmetrical service to all eligible CAIs in their proposed project area(s), BroadbandOhio will award 25 points.

(Req 2.4.2.1) Attachment: Scoring rubric to be used in the subgrantee selection process for deployment projects.

The scoring rubric to be used in the subgrantee selection process for broadband deployment projects is provided in Attachment [BEAD Initial Proposal\_Volume II\_Subgrantee Selection Scoring Rubric.xlsx]. Below includes a summary table of the scoring criteria.

Table 16: Scoring Rubric

Total Category Weight	Criteria	Weight and Points	Determination
<b>Primary Criteria (Required for All Subgrantee Selection)</b>			
75%	<p><b>Minimum BEAD outlay:</b> BroadbandOhio will evaluate a prospective project’s total BEAD funding required to complete the project, accounting for both total projected cost and the prospective subgrantee’s proposed match (which must—absent a waiver—cover no less than 25% of the project cost), with the specific points or credits awarded increasing as the BEAD outlay decreases.</p>	55% (550 points)	<p>Broadband Service Cost. Calculated as combination of:</p> <p>(A) Of a maximum of 275 points, the number of points equal to the application's total BEAD outlay percentile, calculated as described in Determination column.</p> <p>(B) Of a maximum of 275 points, the number of points corresponding to proposed match beyond 25% requirement. Only cash match beyond the 25% will be considered for scoring purposes. Cash match from other federal programs (e.g., Appalachian Regional Commission) is not counted for purposes of determining eligible points in this match sub-criterion.</p>

	<p><b>Affordability.</b> BroadbandOhio will evaluate the prospective subgrantee's commitment to provide the most affordable total price to the customer for 1 Gbps/1 Gbps service in the project area for priority broadband projects, or 100/20 Mbps service in the proposed service area for projects that are not priority broadband projects.</p>	<p>10% (100 points)</p>	<p>BroadbandOhio will require, as part of the application content, a customer service rate table from each applicant that specifies the committed rate for a plan in line with the relevant speed levels for given technology type. BroadbandOhio will use that information to calculate a statewide average price among BEAD prospective subgrantees for plans with the commensurate speed specifications. Specifically, the rates provided by applicants will be leveraged to calculate a weighted statewide average by proportion of all eligible BSLs that each application represents.</p> <p>Then, each application's commensurate rate will be ranked in comparison to the calculated statewide average plan rate above, by calculating each application's count of standard deviations away from the statewide average rate, and percentiling the deviation across all applications. The lowest cost will receive the highest score according to the scoring criteria.</p>
	<p><b>Fair labor practices.</b> Per BEAD requirements, BroadbandOhio will prioritize projects based on a prospective subgrantee's demonstrated record of compliance with federal labor and employment laws, as well as their plans to continue that compliance.</p> <p>All applicants will have an opportunity to earn up to 100 points.</p>	<p>10% (100 points)</p>	<p><b>Category A:</b> Applicants with a record of past compliance with federal labor and employment law and applicants with no prior record of compliance (May earn a maximum of 100 points)  <i>Federal labor and employment law compliance sub-criterion (60 points)</i>  <i>Forward-looking commitments sub-criterion (40 points)</i></p> <p><b>Category B:</b> Applicants with a negative record of compliance (May earn a maximum of 100 points)  <i>Federal labor and employment law compliance sub-criterion (0 points)</i>  <i>Forward-looking commitments sub-criterion (100 points)</i></p>
<p><b>Secondary Criteria (Required for All Subgrantee Selection) and Additional Prioritization Factors (Optional)</b></p>			
<p>25%</p>	<p><b>Secondary Criteria (Required for All Subgrantee Selection)</b></p>		
	<p><b>Speed to deployment.</b> BroadbandOhio will prioritize prospective subgrantees' binding commitment to provide service by an earlier date, subject to contractual penalties to BroadbandOhio.</p>	<p>2.5% (25 points)</p>	<p><b>-12 points</b> for those promising deployment not later than 3 years;  <b>-18 points</b> for those promising deployment not later than 2 years; and  <b>-25 points</b> for those promising deployment not later than 1 year.</p>



<p><b>Speed of network.</b> BroadbandOhio will prioritize projects with greater speeds.</p>	<p>5% (50 points)</p>	<p><b>-6 points</b> for broadband speeds that are greater than 100 Mbps downstream and 20 Mbps upstream, but less than 250 Mbps downstream and 50 Mbps upstream  <b>-13 points</b> for broadband speeds that are 250 Mbps or greater downstream and 50 Mbps upstream, but less than 500 Mbps downstream and 100 Mbps upstream  <b>-25 points</b> for broadband speeds that are 500 Mbps or greater downstream and 100 Mbps or greater upstream, but less than 750 Mbps downstream and 250 Mbps upstream  <b>-31 points</b> for broadband speeds that are 750 Mbps or greater downstream and 250 Mbps or greater upstream, but less than 1Gbps downstream and 500 Mbps upstream  <b>-36 points</b> for broadband speeds that are 1Gbps or greater downstream and 500 Mbps or greater upstream, but less than 1Gbps upstream  <b>-50 points</b> for broadband speeds that are 1Gbps or greater downstream and 1Gbps or greater upstream</p>
<p><b>Technical Capabilities.</b> BroadbandOhio will prioritize projects with greater scalability (i.e., ability to reach 1Gbps symmetrical speed) and latency (at most 100 milliseconds of latency).</p>	<p>5% (50 points)</p>	<p><b>-50 points</b> for end-to-end fiber projects  <b>-40 points</b> for scalable, non-fiber technologies meeting latency requirements (e.g., cable, HFC; licensed FWA technologies designed for scalability)  <b>-30 points</b> for other reliable broadband technologies that have limited ability to meet latency requirements (e.g., licensed FWA)  <b>-20 points</b> for non-reliable broadband technologies (e.g., unlicensed FWA, satellite)</p>
<p><b>Additional Prioritization Factors (Optional)</b></p>		
<p><b>Local Support for Application.</b> BroadbandOhio will prioritize projects with local support, assigning a maximum 2.5% out of a total scoring weight.</p>	<p>2.5% (25 points)</p>	<p><b>-13 points</b> if the application includes a resolution of support from the board of county commissioners in the county where the eligible project is located.  &gt; If an application's eligible project spans multiple counties, of the total 13 points for resolutions adopted by boards of county commissioners, the number of points awarded pro rata, based on the percentage of eligible addresses for the project in each affected county for which the board of county commissioners adopted a resolution of support.</p> <p><b>-7 points</b> if the application includes a letter of support from a board of township's trustees, a village, or a municipal corporation.  &gt; If an application's eligible project spans multiple townships, villages, and municipal corporations, of the total 7 points for letters from boards of township</p>

		<p>trustees, villages, or municipal corporations, the number of points awarded pro rata according to the percentage of eligible addresses for the project in each affected village, municipal corporation, and unincorporated area of the township for which a board of township trustees, village, or municipal corporation submitted a letter of support.</p> <p><b>-5 points</b> for letters of support from a local economic development agency or a chamber of commerce that advocates for an area of the eligible project with the majority of eligible addresses in the application.</p>
<p><b>General experience and technical/financial ability.</b> BroadbandOhio will prioritize subgrantees with demonstrated general experience and technical and financial ability.</p>	<p>7.5% (75 points)</p>	<p>BroadbandOhio will prioritize subgrantees with demonstrated general experience and technical and financial ability as judged by the Broadband Expansion Program Authority. (See detail in Section 2.4.2)</p>
<p><b>1Gbps symmetrical speed to CAIs.</b> For those applicants that commit to providing 1Gbps symmetrical service to all CAIs in their proposed project area(s), BroadbandOhio will award 25 points.</p>	<p>2.5% (25 points)</p>	<p>For those applicants that <b>commit to providing 1Gbps symmetrical service to all CAIs</b> in their proposed project area(s), BroadbandOhio will award 25 points.</p>
<b>Score Grand Total</b>		<b>100% (1000 points)</b>

(Req 2.4.3) Description of how the proposed subgrantee selection process will prioritize Unserved Service Projects to ensure complete coverage of all unserved locations before prioritizing Underserved Service Projects, followed by eligible CAIs.

### Prioritization process

The proposed subgrantee selection process includes the following components to ensure complete coverage of all unserved locations before underserved service projects, followed by eligible CAIs, are prioritized:

- The design of project area units. Project area units in the BEAD-funded grant round(s) in Ohio will comprise groupings of unserved and underserved locations, and eligible CAIs. Unserved and underserved locations grouped together are more likely to be included in a project application than if providers submit applications for individual locations. CAIs will be included but optional, further prioritizing unserved and underserved locations over eligible CAIs (additional details below).
- Points for unserved locations in the scoring rubric. The scoring criteria detailed above award 30% of total scoring weight to projects based on their share of unserved and underserved locations, wherein unserved locations are given twice the weight of underserved service projects. This approach encourages applicants to incorporate project area units with a high proportion of unserved locations into their applications.
- Multiple grant rounds. The potential second grant round of BEAD has been designed to provide another opportunity to ensure that all unserved locations are included in funding applications. BroadbandOhio anticipates holding conversations to understand the barriers preventing providers from covering any remaining unserved locations and will likely take steps to address those barriers ahead of, and as part of, the second grant round.

If it is determined that a second grant round is necessary due to inability to reach all locations in the first round, BroadbandOhio will reserve the right to adjust which locations receive provisional awards in the first round, such as by taking the following approaches:

- Lowering the EHCPLT to enable consideration of applications using alternative, lower cost technologies. If a second and final round of ORBEG-BEAD is necessary, BroadbandOhio will consider revisions to the EHCPLT to enable the consideration of applications using alternative technologies. Any areas remaining for the second and final grant round, including “no-bid” PAUs, would have low demonstrated interest by fiber providers as reflected in the lack of bids in the first round. Consequently, BroadbandOhio deems it important to have applications from all eligible providers and any viable technology available for these areas to ensure universal service of the state. Beyond the EHCPLT, BroadbandOhio will also consider additional steps to encourage participation during the subsequent round, which are described in other sections of this document.
- Move project area units to the second round if it is deemed to have a sufficiently high share of underserved BSLs, to prioritize those project area units with a greater share of unserved BSLs
- Descope underserved BSLs and/or CAIs within a given project area unit that is awarded to a Round 1 subgrantee, and make them available for Round 2
- If it is determined that Ohio will not reach all unserved or underserved locations within its BEAD allocation, BroadbandOhio will first prioritize awarding provisional awards for persistent poverty counties as defined by the NOFO (Athens county) through the process described in 2.4.10 below<sup>36</sup>

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<sup>36</sup> For the purposes of this requirement, high poverty areas are areas in which the percentage of individuals with a household income that is at or below 150 percent of the poverty line applicable to a family of the size involved (as determined under Section 673(2) of the Community Services Block Grant Act (42 U.S.C. § 9902(2)) is higher than the

BroadbandOhio believes that the above rights will help ensure unserved areas are reached first before underserved BSLs, and those areas in persistent poverty counties.

BroadbandOhio will additionally leverage other strategies to maximize participation in the second round, which is described in the sections below.

- Optional inclusion of eligible CAIs in PAUs, followed by separate RFP process for eligible CAIs. Eligible CAIs will be included in PAUs as optional for prospective subgrantees. Once there is funding remaining and confirmed that there are outstanding CAIs needing deployment, funding for CAIs will be sub-granted through an RFP process that is separate from unserved and underserved BSLs. The process will be enabled by funds that remain after the BEAD-funded ORBEG round. Maintaining CAIs as optional during the first 2 rounds and having separate subsequent application processes will ensure that unserved and underserved BSLs are prioritized ahead of eligible CAIs, in accordance with BEAD requirements.

In the event that there are unserved locations that do not have a bid, BroadbandOhio will leverage direct negotiations with providers to reach all unserved locations. Details on this approach can be found in 2.4.7.(**Req 2.4.4**) Rationale for the use of BEAD funds to prioritize non-deployment projects prior to, or in lieu of, the deployment of services to eligible CAIs.

BroadbandOhio does plan to use BEAD funds for non-deployment projects prior to the deployment of services of eligible CAIs.

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national percentage of such individuals. Persistent poverty counties are counties that have had poverty rates of 20 percent or greater for at least 30 years as calculated by the Economic Research Service in the Department of Agriculture.

BroadbandOhio believes upfront efforts toward developing a skilled, available broadband workforce within Ohio will help lower barriers that prevent providers from participating in BEAD by preempting workforce-related roadblocks. BroadbandOhio anticipates these measures to help ensure greater participation and interest by providers, raise competition for BEAD funds, and thereby help ensure higher-quality bids – all of which BroadbandOhio believes will contribute to a more efficient BEAD fund outlay.

The specific rationale for why workforce availability has been identified as a potential roadblock for provider participation, and why BroadbandOhio believes direct implementation of this effort is critical, is outlined below: Currently emerging gaps in broadband workforce availability in Ohio, which threaten the BEAD timelines. In Ohio, it is projected that the state will need over 2,500 workers to expand broadband and over 26,000 workers to deploy 5G technology through 2030. The broadband and 5G industry (telecommunications) are facing a widening skills gap due to a lack of standardized training programs and professional degree programs. The aging workforce and high turnover rates are contributing to a dwindling workforce in the industry. The constant evolution of technologies and lack of industry-academia partnerships pose significant challenges. The strategy hopes to implement countervailing efforts to address these gaps.

Listening session participants described the importance of addressing workforce readiness issues. During BEAD-SDOP listening sessions conducted during the preparation of the Five-Year Action Plan, ISPs noted that labor is increasingly difficult to find. While training programs could help mitigate this labor gap, a listening session participant noted that workforce training programs for broadband deployment-related jobs may face attrition due to slow ramp-up in salary and the labor-intensive nature of the job compared to other jobs with similar entry wage levels. Barriers to broadband deployment were highlighted by stakeholders as a key area to be addressed by BroadbandOhio.

During the BEAD-SDOP stakeholder engagement and during the workforce strategy development led by the Governor’s Office of Workforce Transformation, ISPs

highlighted the need for the state’s attention and mitigation efforts toward workforce readiness: a. Broadband & 5G Workforce Strategy development. The strategy is fundamentally grounded on areas that stakeholders have identified as those they believed the state should concentrate its efforts on to help address broadband workforce challenges.

By implementing the workforce strategy directly, BroadbandOhio would thus help address key areas that stakeholders have identified as focus areas for the state. For instance, to ensure Ohio conducted a thorough analysis, the Governor's Office of Workforce Transformation and BroadbandOhio engaged stakeholders across the broadband and 5G spectrum from telecommunications, construction subcontracting, industry associations, trade groups, rural electric co-ops, nonprofits, career-technical education providers, Ohio Technical Centers, and two- and four-year colleges and universities.

Over four weeks, the state used 10 stakeholder meetings to ensure it was accurately tracking the preliminary issues identified, and to solicit feedback on what Ohio should do to address the broadband and 5G workforce shortage. The meetings created positive collaboration between industry and education on identifying ways to build the broadband workforce needed in Ohio. The strategy additionally leveraged the Federal Communications Commission (FCC) Broadband Deployment Advisory Committee (BDAC)’s report that examined the broadband industry's workforce challenges in 2019. The BDAC report was an extensive, 15-month process that looked at the broadband industry's workforce challenges at the national level. The Co-Chair of the FCC BDAC report, Dr. Rikin Thakker, who then served as the Chief Technology Officer at the Wireless Infrastructure Association (WIA), was an active participant in Ohio's broadband workforce analysis, using his national expertise to assist the state in identifying the key challenges for Ohio to address.

The BDAC report and discussions with stakeholders clarified the need for the state to focus on a few key issue areas, which serve as the 3 pillars of the Strategy:

- a. broadband industry career awareness, education and training programs, and awareness of state and federal funding for training programs.
- b. BEAD-SDOP survey. ISP survey results additionally showed that workforce readiness is a key area that ISPs want additional support from BroadbandOhio. When asked about the main types of support needed from BroadbandOhio to continue increasing access to affordable internet, internet capable devices, and digital skills, approximately 40% of the 21 ISP respondents cited “ensuring skilled workforce for broadband roles” as a key area, second only to “increasing funding/grants for broadband deployment.”

(Req 2.4.5) Description of how Broadband Ohio will communicate the requirements of Environmental and Historic Preservation (EHP) and the Build America, Buy America Act (BABA) to prospective subgrantees, and how EHP and BABA requirements will be incorporated into the subgrantee selection process.

BroadbandOhio will communicate EHP and BABA requirements to prospective grantees and incorporate them into the subgrantee selection process as described below.

**Incorporation of Environmental and Historic Preservation (EHP) requirements:**

- **Upfront communication with prospective subgrantees regarding EHP requirements by NTIA.** As part of its technical assistance process, BroadbandOhio will ensure that prospective subgrantees are aware of EHP requirements by including them in relevant materials outlining the subgrantee process and requirements.
- **Upfront project information collection.** As part of the technical capability requirement, BroadbandOhio will require subgrantees to provide a network design, diagram, project costs, build-out timeline, and milestones for project implementation, as well as a capital investment schedule showing complete



build-out and initiation of service within four years of the date on which the entity receives the subgrant.

For those parts of the project that may be subject to EHP review, BroadbandOhio will require that the project description include a narrative describing potential aspects of the project, including the following items to ensure that relevant information is collected:

- A description of **what** the part of the project subject to EHP review is (e.g., construction of a 150-foot monopole communication tower), including a description of the activities that will take place, the location and duration of those activities, and the equipment that will be used.
- Prospective subgrantees will be required to go beyond simply state the activity, such as “replace an existing utility pole,” and will instead be required to describe activities in sufficient detail so that the effects of the activity on the surrounding environment can be clearly understood. Questions that need to be addressed may include but are not limited to:
  - How will the existing pole be removed?
  - How will the removed pole be managed or disposed of?
  - What equipment will be needed to install the replacement?
  - How long will it take to complete the replacement?
  - Besides digging a hole, will there be any other ground disturbance associated with the replacement?

This description will serve as the basis for understanding potential interactions with the surrounding environment. Graphics, pictures, and tables can be useful visual tools in conveying the necessary understanding of what is being proposed. The Impacts of the proposed action will need to be discussed.

- A description of **where** the project is proposed to be (e.g., at address level) and/or a detailed outline of the route the project will use.

- A **physical description of the site and surrounding area** (e.g., developed land versus open space; adjacent natural resources, such as rivers, wetlands, or forests; and any protected lands). This description must include site and aerial photographs (e.g., Google Earth or Google Maps images) and indicate whether the project entails construction and/or ground-disturbing activities.
- A description of **how** the project will be implemented (e.g., requiring one acre of ground disturbance at an approximate depth of five feet, and the installation of a concrete pad, an equipment shed, and an emergency generator with a 1,000-gallon above-ground fuel storage tank).
- **Additional supporting material**, including but not limited to:
  - Ground-level and aerial photos of the proposed project area and project plan drawings
  - A floodplain map from the Federal Emergency Management Agency (FEMA) Map Service Center with the project overlain to show whether and where the project falls into a flood zone
  - A wetlands map from the U.S. Fish and Wildlife Service’s (USFWS) National Wetlands Inventory with the project overlain to show whether the project will impact wetlands or waterways, including buffer zones
  - Initial consultation with State Historic Preservation Officers (SHPO), including a list of any historic or archaeological resources within the vicinity of the construction activities
  - Initial Consultation with the USFWS to determine whether there are threatened or endangered species or critical habitat in the vicinity of the project.

Subgrantees will also be required to budget EHP compliance-related tasks into the project timeline and milestones.

As part of the application packet, subgrantees must submit a description of anticipated or preliminary government authorizations, permits, and other approvals

required in connection with the project, as well as an estimated timetable for acquiring such approvals.<sup>37</sup> As part of this requirement, subgrantees will be required to include any permits relevant to EHP compliance to confirm that they are considering any permitting necessary for compliance and budgeting sufficient time to obtain any identified, applicable permits.

BroadbandOhio will consult the NTIA about any additional measures that must be taken to ensure EHP compliance and will update the above measures as needed for compliance.

### **Incorporation of Build America, Buy America Act (BABA) Requirements**

To meet BABA requirements, BroadbandOhio will take the following actions during the subgrantee process:

- **Communicate upfront with prospective subgrantees regarding BABA requirements by the NTIA.** As part of its technical assistance process, BroadbandOhio will ensure that prospective subgrantees are aware of BABA requirements by including it in relevant materials outlining the subgrantee process and requirements. BroadbandOhio will also include in the BABA materials any limited waivers issued by the NTIA so that prospective subgrantees are aware of the terms of available waivers.<sup>38</sup>
- **Request certification from prospective subgrantees to comply with BABA requirements.** BroadbandOhio will require all subgrant recipients to certify that they will comply with BABA requirements, subject to any limited waivers issued by the NTIA. BroadbandOhio will also require all subgrant recipients to clearly designate all materials planned for their proposed BEAD projects into the categories outlined by the Office of Management and Budget.

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<sup>37</sup> Ohio House Bill 33, Sec. 122.4020(A)(14).

<sup>38</sup> See, for instance, the proposed BABA waiver for BEAD, which can be found [here](#).

BroadbandOhio will consult additional NTIA guidance on the topic to ensure BABA compliance and will update the above measures as needed for compliance.

(Req 2.4.6) Description of how BroadbandOhio will define the project areas for which they will solicit proposals from prospective subgrantees and indicate whether the mechanism for “de-conflicting” overlapping proposals will allow for equal comparisons of competing proposals.

### **How Broadband Ohio will define project areas**

BroadbandOhio will define a project area unit (PAU) as a collection of individual unserved and underserved locations and eligible CAIs within a specific geographic boundary. The set of project area units for the BEAD-funded grant round(s) will be a set of non-overlapping project area units. Census block groups will serve as the geographic boundary that will be used to put together groups of unserved and underserved locations and eligible CAIs. It is currently estimated that there will be approximately 4,210 census block groups in Ohio that would contain unserved and/or underserved broadband serviceable locations, accounting for de-duplications and modifications (eligible CAIs to be accounted for at a later date).

Prospective subgrantees will be able to apply for any subset of project area units within the BEAD-funded grant round(s) (i.e., providers will be able to define custom project areas by selecting any subset of project area units to deploy in). PAUs will therefore serve as an “application unit,” where, given the distribution of eligible BSLs in Ohio, each PAU will have a mix of BEAD-eligible, unserved and underserved BSL(s) and eligible CAIs.

## Resolving conflict in overlapping proposals

Following the approach defined in the Ohio Administrative Code, Rule 122:30-1-04 (E)(1), where two or more applications submitted both propose to serve the same project area unit(s), the highest-scoring application will be deemed the preliminary winner. The applicant(s) that are not awarded a grant for the conflicting project area units must remove the intersecting project areas from their application, and may further revise their applications in the following ways:

- The applicant may revise the cost of the application consistent with the removal of the intersecting project area units;
- The applicant may withdraw the entire application.

Any change to the application will require that the application be rescored, and the “de-conflicting” process will be continued for any remaining overlaps.<sup>39</sup> Note that BroadbandOhio will be evaluating the re-submitted applications based on the updated application and score, where project area units that intersect with preliminary winners are removed.

**(Req 2.4.7)** If no proposals to serve a location or group of locations that are unserved, underserved, or a combination of both are received, description of how BroadbandOhio will engage with prospective subgrantees in subsequent funding rounds to find providers willing to expand their existing or proposed service areas, or other actions that BroadbandOhio will take to ensure universal coverage.

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<sup>39</sup> [Ohio Administrative Code, Rule 122](#)

In the case that there are project area units remaining after the first ORBEG-BEAD grant round, BroadbandOhio will either address them through (A) negotiations with providers, and/or (B) run a final round of ORBEG-BEAD.

#### (A) Negotiation with providers

- If the count of unassigned project area units compared to the average number of PAUs per application is not relatively large, BroadbandOhio will take the following measures.
- BroadbandOhio will publicly identify any project area units not covered by an awarded subgrant.
- BroadbandOhio will engage providers who are proximate to remaining unserved and underserved locations (either due to their current footprint, or their winning BEAD applications), and encourage them to incorporate the remaining locations into their proposals, which may or may not need an additional subsidy. All proximate providers will be offered the same opportunity to bid. And only at this point will BBOH allow division of PAUs, as long as the PAU is completely served. The negotiation stage will last no more than 30 days, If A PAU remains with un/underserved addresses, we will go to the next step of the process (e.g., the next ORBEG-BEAD round).
- (B) A final round of ORBEG-BEAD
- **If a final round of ORBEG-BEAD is necessary, BroadbandOhio will take the following measures.**
- **BroadbandOhio will engage with prospective subgrantees** to understand barriers to buildout in the remaining PAUs. BroadbandOhio may consider methods to address those barriers, which could include support for obtaining permitting, subsidies for specific costs, or other means. **BroadbandOhio may consider breaking up project area units into smaller subdivisions**, if that is raised as a barrier in the engagement described in Point 1 above.

- **BroadbandOhio** may consider adjustments to the reference cost level to highlight BroadbandOhio’s consideration of providing higher subsidies.

**BroadbandOhio** may consider lowering the EHCPLT to enable driving toward universal coverage via the consideration of applications using alternative, lower cost technologies. If a second and final round of ORBEG-BEAD is necessary, BroadbandOhio will consider revisions to the EHCPLT to enable consideration of applications using lower cost, alternative technologies (e.g., all fixed wired, fixed wireless and satellite technologies). Any areas remaining for the second and final grant round, including “no-bid” PAUs, would have low demonstrated interest by fiber providers as reflected in the lack of bids in the first round. Consequently, BroadbandOhio deems it important to have applications of all technologies available for these areas to ensure universal service in the state. Beyond the EHCPLT, BroadbandOhio will also consider additional steps to encourage participation during the subsequent round, as described here. **(Req 2.4.8)** Description of how BroadbandOhio intends to submit proof of Tribal Governments’ consent to deployment if planned projects include any locations on Tribal Lands.

Not applicable

**(Req 2.4.9)** Outline of the detailed process for identifying an Extremely High Cost Per Location Threshold to be utilized during the subgrantee selection process, including a description of the



cost models used and the parameters of those cost models (e.g., whether they consider only capital expenditures or include operational costs for the lifespan of the network).

BroadbandOhio will set a preliminary Extremely High Cost Per Location Threshold (EHCPLT) by leveraging the greenfield fiber NPV / subsidy cost-modeling data provided to Ohio through the Eligible Entity Toolkit. BroadbandOhio will also review and consider the data on subsidy levels that will be provided in applications in ORBEG Round 2, which will be conducted during Q4 2023 and Q1 2024. This preliminary value will be published prior to the start of the application process to enhance the transparency of the process.

Using the greenfield NPV data provided in the Eligible Entity toolkit, BroadbandOhio will:

- Calculate the total greenfield fiber subsidy costs for all project area units that contain unserved and underserved locations, then sum the value across all PAUs. BroadbandOhio will sum the greenfield NPV data provided in the Eligible Entity toolkit for each project area unit to estimate the total required BEAD outlay. The subsidy cost will be set equal the maximum of this sum, and a value deemed to be an approximation of the transaction costs for participating in the grant program.
- Compare the total sum against Ohio’s BEAD funding allocation.
- If the sum in step (1) is less the state’s BEAD funding allocation (\$793 million), no EHCPLT will be set.
- If the sum exceeds the BEAD funding allocation for Ohio (\$793 million), then BroadbandOhio will determine an EHCPLT by following the steps below.
- [If sum exceeds the BEAD funding allocation for Ohio] Calculate the total greenfield fixed wireless (FW) subsidy for all project area units that contain

unserved and underserved locations. Fixed wireless greenfield NPV subsidy estimates from the Eligible Entity tool kit will be leveraged to determine the FW subsidy per project area unit. The subsidy cost will be set equal the maximum of this sum, and a value deemed to approximate the transaction costs for participating in the grant program.

- Calculate the difference between the average per-location subsidy for fiber and fixed wireless deployment, and order project area units by that difference, from largest to smallest.
- Set the EHCPLT as \$1 below the per-location fiber subsidy of the highest-ranking project area unit above.
- Calculate the total estimated BEAD outlay as the sum of:
  - Project area unit (PAU) fiber subsidy where the per-location fiber subsidy is lower than the EHCPLT; and,
  - Project area unit FW subsidy, where the per-location fiber subsidy is higher than the EHCPLT.
- Reduce the EHCPLT until it is set as the highest value that allows the total estimated BEAD outlay to be lower than the BEAD funding allocation for Ohio.

BroadbandOhio will review the data acquired through the execution of ORBEG Round 2, and compare total CapEx, subsidy levels, and their drivers with the data provided through the Eligible Entity Toolkit to determine if any adjustments to the methodology defined above are needed. Broadband will then publish the preliminary EHCPLT.

BroadbandOhio reserves the right to reduce the preliminary EHCPLT should a lower threshold be needed to maximize coverage, while also maximizing fiber deployment.

**(Req 2.4.10)** The plan for using the Extremely High Cost Per Location Threshold in the subgrantee selection process to maximize the use of the best available technology while ensuring

that the program can meet the prioritization and scoring requirements set forth in Section IV.B.6.b of the BEAD NOFO. The plan must include:

- a. The process for declining a subgrantee proposal that exceeds the threshold when an alternative technology is less expensive.
- b. The plan for engaging subgrantees in revising their proposals and ensuring that locations do not require a subsidy.
- c. The process for selecting a proposal that involves a less costly technology and may not meet the definition of Reliable Broadband.

The EHCPLT, which will be set ahead of the ORBEG-BEAD grant round, may be utilized only after all deconflicted Priority Broadband Projects are reviewed and scored. If it is determined that all Priority Broadband Projects cannot be provisionally awarded within the state's BEAD allocation, or that all unserved and underserved locations cannot be reached if all Priority Broadband Projects are funded (i.e., determined by comparing Ohio's BEAD allocation against the sum of provisionally awarded Priority Broadband Projects and the reference price for any PAUs without applications), then BroadbandOhio will execute the following steps:

- For all applications where the subsidy for the provisionally awarded Priority Broadband Projects exceeds the preliminary EHCPLT, or for PAUs where there are no Priority Broadband Project proposals, applications for non-fiber reliable technologies will be reviewed and scored. Priority Broadband Projects will not be given an opportunity to cure their application should they be found to exceed the EHCPLT.
- The highest scoring non-fiber applications will be identified and marked for provisional awards, and the impact of those applications on the total BEAD

outlay, the impact on the coverage map, and the number of additional applications that must be deconflicted will be assessed.

- When, by implementing the above steps, the total BEAD outlay has been reduced to be within Ohio’s allocation, the count of unserved locations has been reduced to zero, and the count of underserved locations is minimized, Ohio will proceed to the steps below for the finalization of preliminary awards.
- If, after assessing all non-fiber applications, the projected total BEAD outlay is still above Ohio’s allocation, then Ohio will rank all Priority Broadband Projects by the average subsidy per location, and set the EHCPLT to 1 dollar below the highest ranked application that has conflicting non-fiber applications.
- Ohio will then repeat steps (2) – (4) until the projected BEAD outlay is below Ohio’s allocation.

**Finalization of preliminary awards.** BroadbandOhio will then finalize the provisional awards identified in steps (1) – (5) above. This includes declining a subgrantee proposal that exceeds the threshold when an alternative technology is less expensive, due to the goal of maximizing coverage while also maximizing the use of end-to-end fiber projects.

If there are unassigned project area units after taking the steps above, based on the number of unassigned project area units, BroadbandOhio will conduct one of the following activities:

- If the count of unassigned project area units compared to the average number of PAUs per application is not relatively large, BroadbandOhio may engage providers who are proximate to remaining unserved and underserved locations (either due to their current footprint, or their winning BEAD applications), and encourage them to incorporate the remaining locations into their proposals, which may or may not need an additional subsidy. This process may include breaking up project area units into smaller subdivisions, or addressing other barriers to deployment faced by providers.

- If the count of unassigned project area units compared to the average number of PAUs per application in the prior grant round is relatively large, BroadbandOhio will open the remaining project area units for a subsequent grant round, and consider the following actions based on insights and results from the prior grant round:
  - Adjusting the reference costs in remaining PAUs to make PAUs more attractive for applications
  - Allowing any fixed or wireless provider to apply, whether or not they are a reliable technology
  - Potentially waiving part of the 25% match requirement. During the subsequent round only, BroadbandOhio will request prospective subgrantees whether they require a match waiver to be able to complete the proposed project. If a given project area unit has an uncontested application that is willing to deploy but only with a reduced match requirement, BroadbandOhio will work toward requesting a waiver be granted by NTIA. BroadbandOhio will only consider waiving the 25% match requirement if the match waiver is granted by NTIA, and only if providers have identified that a lack of sufficient funds was the barrier to applying. If, however, there are other competitors that do not require a match waiver applying for the same PAU, they will be prioritized over the application requiring a match waiver. This step will help solicit providers that would be willing to participate if the waiver requirement could be negotiated, thereby helping solicit more applications toward reaching universal service per BEAD’s objective.

In a subsequent grant round, all applications would be scored according to the rubric defined in 2.4.2. Uncontested Priority Broadband Projects would be provisionally awarded first, followed by the scoring and deconfliction of conflicting Priority Broadband Projects. Next, conflicting applications for non-fiber reliable technology applications will be scored and deconflicted, followed by applications leveraging non-reliable technologies. If a proposal for a project that includes a less costly technology

that does not meet the definition of Reliable Broadband scores the highest per the prioritization and scoring process defined above, that proposal could be selected through this process.

### **Deployment Subgrantee Qualifications**

**(Req 2.4.11)** Description of how the BroadbandOhio will ensure prospective subgrantees deploying network facilities meet the minimum qualifications for financial capability as outlined on pages 72 – 73 of the BEAD NOFO, including:

- a. Detail on how BroadbandOhio will require prospective subgrantees to certify that they are qualified to meet the obligations associated with a Project, that prospective subgrantees will have available funds for all project costs that exceed the amount of the grant, and that prospective subgrantees will comply with all Program requirements, including service milestones. To the extent the Eligible Entity disburses funding to subgrantees only upon completion of the associated tasks, the Eligible Entity will require each prospective subgrantee to certify that it has and will continue to have sufficient financial resources to cover its eligible costs for the Project until such time as the Eligible Entity authorizes additional disbursements.
- b. Detail on how BroadbandOhio plans to establish a model letter of credit substantially similar to the model letter of credit established by the FCC in connection with the Rural Digital Opportunity Fund (RDOF).
- c. Detail on how BroadbandOhio will require prospective subgrantees to submit audited financial statements.

- d. Detail how BroadbandOhio will require prospective subgrantees to submit business plans and related analyses that substantiate the sustainability of the proposed project.

For all qualification requirements, two months prior to the BEAD subgrantee process, BroadbandOhio will open the pre-qualification filing window for prospective subgrantees. During this filing window, prospective subgrantees will be required to submit their materials and any required certifications to demonstrate their qualifications, including qualifications pertaining financial, operational, managerial, technical, compliance, ownership, and other public funding.

BroadbandOhio will require the following information from prospective subgrantees to ensure they meet BEAD’s qualification criteria for financial capability.

### How BroadbandOhio will require prospective subgrantees to certify that they are qualified to meet the obligations associated with a Project

BroadbandOhio will require from each applicant a certification that they are qualified to meet the obligations associated with its proposed BEAD project, that they will have available funds for all project costs that exceed the amount of the grant, and that they will comply with all Program requirements, including service milestones. They will also be certified that it has and will continue to have sufficient financial resources to cover its eligible costs for the proposed BEAD project until such time as BroadbandOhio authorizes additional disbursements.

Specifically, BroadbandOhio will request all subgrantees to provide proof that the applicant broadband provider has the financial stability to complete the project. The broadband provider must provide evidence of financial stability. This evidence may include publicly available financial statements, copies of federal and state tax returns, or other documents that provide proof of financial stability. They will be required to note whether the financial statements were prepared internally or by a third party.

All prospective subgrantees will be required to submit the information above as part of the application packet.

### **How BroadbandOhio plans to establish a model letter of credit**

Similar to the model letter of credit established with the Rural Digital Opportunity Fund (RDOF), BBOH will require prospective subgrantees to submit a letter from an eligible bank (see 47 C.F.R. § 54.804(c)(2)) in which the bank commits to issuing an irrevocable standby letter of credit to the prospective subgrantee. The letter must include the dollar amount of the letter of credit and the issuing bank's agreement to adhere to the model letter of credit terms and conditions. Before executing any subgrantee agreements, each prospective subgrantees must obtain an irrevocable standby letter of credit, which BBOH deems acceptable, and amounts to no less than 25 percent of the subaward amount. An opinion letter from its legal counsel must be included with the letter of credit stating, subject only to customary assumptions, limitations and qualifications, that in a proceeding under Title 11 of the United States Code, 11 U.S.C. § 101 et seq. (the "Bankruptcy Code"), the bankruptcy court would not treat the letter of credit or proceeds of the letter of credit as property of the winning subgrantee's bankruptcy estate under Section 541 of the Bankruptcy Code.

As part of BBOH's monitoring procedures, including a risk assessment conducted during the pre-application process, BBOH will reserve the right to determine the level of the Letter of Credit (LOC) that each subgrantee is required to execute, as well as whether a subgrantee may use a waiver to the LOC requirement, in alignment with NTIA's LOC Waiver, including any future additional options made available by a subsequent NTIA waiver or guidance.

The reason for this is, the State has witnessed the effects of grantee bankruptcies and defaults in previous federal funding programs in Ohio, the most obvious of which is that these locations are still unserved today. Accountability practices, such as those required in BEAD (e.g., clawback provisions) are necessary for protecting public dollars in these instances, but insufficient without enhanced accountability provisions to



ensure that all sub-award recipients truly have the capabilities to complete their responsibilities, thus ensuring that Ohio can meet its commitment to serve all unserved locations in the state.

The NTIA BEAD LOC waiver (found at <https://broadbandusa.ntia.gov/fundingprograms/policies-waivers/BEAD-Letter-of-Credit-Waiver>) is detailed below. The LOC Requirement is waived only to the extent to and as described below:

#### 2.1 Subgrantee Option to Use Credit Unions

That portion of the LOC Requirement that requires the use of a bank that meets the eligibility requirements of 47 C.F.R. § 54.804(c)(2) is waived where the subgrantee otherwise meets the LOC Requirement using:

Any United States credit union that:

(a) is insured by the National Credit Union Administration

and

(b) has a credit union safety rating issued by Weiss of B- or better.

#### 2.2 Subgrantee Option to Use Performance Bonds

That the LOC Requirement is waived where:

(a) During the application process, prospective subgrantees are required to submit a letter from a company holding a certificate of authority as an acceptable surety on federal bonds as identified in the Department of Treasury Circular 570 committing to issue a performance bond to the prospective subgrantee. The letter shall at a minimum provide the dollar amount of the performance bond.

(b) Prior to entering into any subgrantee agreement, each prospective subgrantee obtains a performance bond, acceptable in all respects to the Eligible Entity and in a

value of no less than 100 percent of the subaward amount. Where a subgrantee chooses to exercise the option to obtain a performance bond under this waiver, the requirement that the subgrantee “provide with its letter of credit an opinion letter from legal counsel clearly stating, subject only to customary assumptions, limitations, and qualifications, that in a proceeding under Title 11 of the United States Code, 11 U.S.C. § 101 et seq. (the “Bankruptcy Code”), the bankruptcy court would not treat the letter of credit or proceeds of the letter of credit as property of the winning subgrantee’s bankruptcy estate under Section 541 of the Bankruptcy Code” is waived.

### 2.3 Reduction of LOC/Performance Bonds Upon Completion of Milestones

The requirement that “In no event, however, shall the letter of credit have a value of less than 25 percent of the subaward amount” is waived, conditioned on the requirement that the subgrantee obtain a new a letter of credit in a reduced amount upon achievement of specific deployment milestones that are publicly specified by the Eligible Entity and applicable to all subgrantees subject to the LOC Requirement. Where a subgrantee chooses to utilize a performance bond in lieu of a letter of credit under section 2.2 above, Eligible Entities shall also have the option to reduce the amount of the performance bond by a commensurate amount as subgrantees meet the same service milestones.

By way of example, an Eligible Entity could specify that a subgrantee may obtain a new letter of credit or renew its existing letter of credit to reduce its value in accordance with the following limitations:

Upon demonstrating to the satisfaction of the Eligible Entity that it has completed the buildout of 40 percent of locations to be served by the project, a subgrantee may obtain a new letter of credit or renew its existing letter of credit so that it is valued at no less than 20 percent of the award amount.

Upon demonstrating to the satisfaction of the Eligible Entity that it has completed the buildout of 60 percent of locations to be served by the project, a subgrantee may

obtain a new letter of credit or renew its existing letter of credit so that it is valued at no less than 15 percent of the award amount.

Upon demonstrating to the satisfaction of the Eligible Entity that it has completed the buildout of 80 percent of locations to be served by the project, a subgrantee may obtain a new letter of credit or renew its existing letter of credit so that it is valued at no less than 10 percent of the award amount.

Upon demonstrating to the satisfaction of the Eligible Entity that it has completed the buildout of 100 percent of locations to be served by the project, a subgrantee may terminate its letter of credit under the terms set forth therein.

#### 2.4 Subgrantee Option for Alternative Initial LOC or Performance Bond Percentage

The requirement that the initial letter of credit be for 25% of the subaward amount, or in the case where a subgrantee chooses to utilize a performance bond consistent with section 2.2 above, allow the initial amount of the performance bond to be lower than 100% of the subaward amount, where:

- (a) The Eligible Entity issues funding on a reimbursable basis consistent with Section IV.C.1.b of the NOFO;
- (b) Reimbursement is for periods of no more than six months; and
- (c) The subgrantee commits to maintain a letter of credit or performance bond in the amount of 10% of the subaward until it has demonstrated to satisfaction of the Eligible Entity that it has completed the buildout of 100 percent of locations to be served by the project or until the period of performance of the subaward has ended, whichever occurs first.

**How BroadbandOhio will require prospective subgrantees to submit audited financial statements**

As outlined above, BroadbandOhio will request all subgrantees to provide proof that the applicant broadband provider has the financial stability to complete the project. The broadband provider must provide evidence of financial stability. This evidence may include publicly available financial statements, copies of federal and state tax returns, other documents that provide proof of financial stability. They will be required to note whether the financial statements were prepared internally or by a third party. Applicants may include other documents, including a letter of credit or bond.<sup>40</sup>

Per BEAD's requirement, BroadbandOhio will require an audited financial statement from prospective subgrantees. If the potential subgrantee has not been audited during the ordinary course of business, in lieu of submitting audited financial statements, it must submit unaudited financial statements from the prior fiscal year and certify that it will provide financial statements from the prior fiscal year that are audited by an independent certified public accountant by a deadline specified by BroadbandOhio.<sup>41</sup>

All prospective subgrantees will be required to submit the information above as part of the application packet.

### **How BroadbandOhio will require prospective subgrantees to submit business plans and related analyses that substantiate the sustainability of the proposed project**

BroadbandOhio will require as part of the above proof of financial stability a business plan and related analyses that substantiate the sustainability of the proposed project. Example forms in which this can be provided include pro forma statements or analyses, inclusive of cash flow and balance sheet projections and should include at least three years of operating cost and cash flow projections post targeted completion of project.<sup>42</sup>

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<sup>40</sup> See, for instance, ORBEG application guide (<https://broadband.ohio.gov/static/ohio-residential-broadband-expansion-grant-program-application-guide-10192021.pdf>) and application form (<https://broadband.ohio.gov/static/Broadband-Grant-Application-10182021.pdf>).

<sup>41</sup> NTIA BEAD NOFO page 73.

<sup>42</sup> NTIA BEAD NOFO page 73.

All prospective subgrantees will be required to submit the information above as part of the application packet. An example of this notarized statement can be found in 2.4.11.1 Optional Attachment.

BroadbandOhio will assess the received information above to determine that they meet financial stability requirements through the following:

**Completion of application packet.** Applicants will be screened for submitting all required supporting document for this requirement. This includes the certification, audited financial statements, copies of federal and state tax returns, business plans and related analyses.

**Satisfaction of specific document requirements.** Applicants will be screened for fully satisfying document-specific requirements. For instance, the certification will be checked to see whether it has been properly notarized. The financial statements must state whether it has been prepared internally or by a 3<sup>rd</sup> party, and clearly demonstrate that it has been audited by an independent auditor. Business plans and related analyses must include at least 3 years of operating cost and cash flow projections post targeted completion of project.

**Sufficient proof for stated financial stability.** The applicant's narrative and certification for proof of financial stability will be cross-checked with the submitted application material to confirm that the applicant has provided relevant supporting evidence cited in the narrative, to assess the soundness of the narrative.

**(2.4.11.1) Optional Attachment:** As an optional attachment, submit application materials related to the BEAD subgrantee selection process, such as drafts of the Requests for Proposals for deployment projects, and narrative to crosswalk against requirements in the Deployment Subgrantee Qualifications section.

In the coming months, BBOH will publish additional example documents such as the subgrantee application. (See 2.4.11.1 Optional Attachment)

(2.4.12) Description of how the BroadbandOhio will ensure any prospective subgrantee deploying network facilities meets the minimum qualifications for managerial capability as outlined on pages 73 – 74 of the BEAD NOFO, including:

- a. Detail how the Eligible Entity will require prospective subgrantees to submit resumes for key management personnel.
- b. Detail how it will require prospective subgrantees to provide a narrative describing their readiness to manage their proposed project and ongoing services provided.

BroadbandOhio will require prospective subgrantees to submit a description of, or documentation demonstrating, the broadband provider's managerial and technical expertise and experience with broadband service projects. Applicant may provide descriptions of expertise and experience on the application itself or as an Attachment. Descriptions of expertise and experience should be in narrative form, and based on company and project-level expertise and experience.<sup>43</sup>

**Resumes for key management personnel.** Per BEAD requirements, prospective subgrantees will be required to submit to BroadbandOhio resumes for all key management personnel and any necessary organizational chart(s) detailing all parent, subsidiaries, and affiliates.

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<sup>43</sup> See, for instance, ORBEG application guide (<https://broadband.ohio.gov/static/ohio-residential-broadband-expansion-grant-program-application-guide-10192021.pdf>) and application form (<https://broadband.ohio.gov/static/Broadband-Grant-Application-10182021.pdf>).

**Narrative describing their readiness to manage their proposed project and ongoing services provided.** per BEAD requirements, applicants would be required to include in this narrative, a minimum of (i) experience and qualifications of key management for undertaking this project, (ii) its experience undertaking projects of similar size and scope, (iii) recent and upcoming organizational changes including mergers and acquisitions, and relevant organizational policies.<sup>44</sup> **For b(i)**, applicants will be required to describe the management experience of the applicant in general and of the managers that will be on the project, if applicable.<sup>45</sup> **For b(ii)**, applicants will be required to provide a description of service project experience, which must include information detailing how the applicant has completed similar projects as the one being applied for. If this project is larger than any project that the applicant has completed, they will be required to provide experience on smaller projects and how the applicant can scale that expertise to the current application.<sup>46</sup> **For b(iii)**, applicants will be required to include in the narrative any recent and upcoming organizational changes, any relevant organizational policies, and how these equip the applicant with the relevant managerial skills required for the project.

All prospective subgrantees will be required to submit the information above as part of the application packet, which will be updated in 2.4.11.1.

BroadbandOhio will assess the received information to determine that they meet managerial capability requirements through the following:

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<sup>44</sup> NTIA BEAD NOFO pages 73-74

<sup>45</sup> See, for instance, ORBEG application guide (<https://broadband.ohio.gov/static/ohio-residential-broadband-expansion-grant-program-application-guide-10192021.pdf>) and application form (<https://broadband.ohio.gov/static/Broadband-Grant-Application-10182021.pdf>).

<sup>46</sup> See, for instance, ORBEG application guide (<https://broadband.ohio.gov/static/ohio-residential-broadband-expansion-grant-program-application-guide-10192021.pdf>) and application form (<https://broadband.ohio.gov/static/Broadband-Grant-Application-10182021.pdf>).

**Completion of application packet.** Applicants will be screened for submitting all required supporting document for this requirement. This includes the requirements for resumes and organization charts, as well as **b(i) to b(iii)** as outlined above.

**Sufficient proof for stated managerial capability.** The applicant’s narrative for managerial capability will be cross-checked with the submitted application material to confirm that the applicant has provided relevant supporting evidence cited in the narrative and provides sufficient explanation of the relevance of the proof submitted, to assess the soundness of the narrative. For instance, for (i), if the applicant references resumes for key managerial staff as proof of such management experience, it must also include a detailed explanation of how the resume demonstrates sufficient managerial capability relevant for the proposed project. For (ii), an applicant’s claim of experience undertaking projects of similar size and scope must be accompanied by proof of undertaking such a project, as well as a detailed explanation of how that project is similar in size and scope with the proposed project.

**(Req 2.4.13):** Description of how BroadbandOhio will ensure any prospective subgrantee deploying network facilities meets the minimum qualifications for technical capability as outlined on page 74 of the BEAD NOFO, including:

- a. How BroadbandOhio will require prospective subgrantees to certify that they are technically qualified to complete and operate the Project and that they are capable of carrying out the funded activities in a competent manner, including that they will use an appropriately skilled and credentialed workforce.
- b. How BroadbandOhio will require prospective subgrantees to submit a network design, diagram, project costs, build-out timeline and milestones for project implementation, and a capital investment schedule evidencing complete build-out and the initiation of service within four years of the date on which the entity receives the subgrant, all certified by a professional engineer, stating



that the proposed network can deliver broadband service that meets the requisite performance requirements to all locations served by the Project.

**Requirement for prospective subgrantees to certify it is technically qualified to complete and operate the Project, and capable of carrying out the funded activities in a competent manner, including that they will use an appropriately skilled and credentialed workforce.** BroadbandOhio will require prospective subgrantees to submit a description of, or documentation demonstrating, the broadband provider's managerial and technical expertise and experience with broadband service projects. Applicant may provide descriptions of expertise and experience on the application itself or as an Attachment. For the description of technical expertise, the applicant will be required to describe that it has the technical expertise to complete the project, including any possible certifications that are applicable and other credentials.<sup>47</sup> As described above in **2.4.12**, applicants will also be required to provide a description of service project experience, which must include information detailing how the applicant has completed similar projects as the one being applied for. If this project is larger than any project that the applicant has completed, they will be required to provide experience on smaller projects and how the applicant can scale that expertise to the current application.<sup>48</sup>

Per BEAD requirements, BroadbandOhio will additionally require all prospective subgrantees to submit information pertaining to its commitment to use an appropriately skilled and credentialed workforce. Specifically, this would include a plan that demonstrates at a minimum the following for the project workforce (including contractors and subcontractors):

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<sup>47</sup> See, for instance, ORBEG application guide (<https://broadband.ohio.gov/static/ohio-residential-broadband-expansion-grant-program-application-guide-10192021.pdf>) and application form (<https://broadband.ohio.gov/static/Broadband-Grant-Application-10182021.pdf>).

<sup>48</sup> See, for instance, ORBEG application guide (<https://broadband.ohio.gov/static/ohio-residential-broadband-expansion-grant-program-application-guide-10192021.pdf>) and application form (<https://broadband.ohio.gov/static/Broadband-Grant-Application-10182021.pdf>).

- The ways in which the prospective subgrantee will ensure the use of an appropriately skilled workforce—for example, through registered apprenticeships or other joint labor-management training programs that serve all workers (including those offered through the Strategy).
- The steps that will be taken to ensure that all members of the project workforce will have appropriate credentials—such as appropriate and relevant pre-existing occupational training, certification, and licensure (including those offered through the Strategy, as all Strategy-affiliated training programs provide industry-recognized credentials upon completion).
- Whether the workforce is unionized. If the project workforce or any subgrantee’s, contractor’s, or subcontractor’s workforce is not unionized, the following information must be provided with respect to the non-union workforce:
  - The job titles and size of the workforce (FTE positions, including for contractors and subcontractors) required to carry out the proposed work over the course of the project and the entity that will employ each portion of the workforce.
  - For each job title required to carry out the proposed work (including contractors and subcontractors), a description of:
    - » Safety training, certification, and/or licensure requirements (e.g., OSHA 10, OSHA 30, confined space, traffic control, or other training as relevant depending on title and work), including whether there is a robust in-house training program with established requirements tied to certifications and titles.
    - » Information on the professional certifications and/or in-house training in place to ensure that deployment is done at a high standard.
- Whether the workforce will be directly employed or the work will be performed by a subcontracted workforce.

- The entities that the proposed subgrantee plans to contract and subcontract with in carrying out the proposed work.

Additionally, BroadbandOhio will require all subgrantees to participate in the Broadband and 5G Sector Partnership, a key component of the “Strengthening Ohio’s Broadband & 5G Workforce” strategy, and the scoring criteria defined above will further incentivize subgrantees to hire from apprenticeship programs, including those directly from the Strategy. All Strategy apprenticeship participants will be equipped with industry-recognized credentials, which will help ensure project workforce is appropriately skilled and credentialed.

For additional information, please refer to **2.8.2** of this document.

BroadbandOhio will additionally consider the prospective subgrantee’s record of compliance with applicable laws, which will be further outlined in **2.4.14** below.

**For (b)**, per BEAD requirements, BroadbandOhio will require prospective subgrantees to submit the following information: (i) network design, (ii) diagram, (iii) project costs, (iv) build-out timeline and milestones for project implementation, and (v) a capital investment schedule evidencing complete build-out and the initiation of service within four years of the date on which the entity receives the subgrant. Specific information to be required for each is detailed below.

**For b(i)**, BroadbandOhio will require, at a minimum, the following information:

**Type Of Technology.** The prospective subgrantee will be required to share whether they plan to use wired, wireless, or satellite technology to complete the project.<sup>49</sup>

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<sup>49</sup> See, for instance, ORBEG application guide (<https://broadband.ohio.gov/static/ohio-residential-broadband-expansion-grant-program-application-guide-10192021.pdf>), application form (<https://broadband.ohio.gov/static/Broadband-Grant-Application-10182021.pdf>), and Ohio House Bill 33, Section 122.4020 ([https://search-prod.lis.state.oh.us/solarapi/v1/general\\_assembly\\_135/bills/hb33/EN/06/hb33\\_06\\_EN?format=pdf](https://search-prod.lis.state.oh.us/solarapi/v1/general_assembly_135/bills/hb33/EN/06/hb33_06_EN?format=pdf)).

**Scalability of the project.** The prospective subgrantee will be required to share a description of the scalability of the project.<sup>50</sup>

**Download & Upload Speeds.** The prospective subgrantee will be required to share megabit-per-second broadband download and upload speeds planned for the project.<sup>51</sup>

Beyond the information above, prospective subgrantees will be expected to provide a near-complete, if not complete, network design that has been certified by a professional engineer stating that the proposed network can deliver broadband service that meets the requisite performance requirements to all locations served by the project in the application.

**Description of how the design incorporates and mitigates considerations for climate risks as identified in Climate Assessment (2.11.1) for relevant counties.** The prospective subgrantee must include a description of how it has taken into consideration the climate assessment and key risks identified for the project areas they are applying for, and how their network design addresses these risks. Prospective subgrantees would be strongly recommended to consider mitigation strategies identified in this Initial Proposal.

**For b(ii),** BroadbandOhio will require relevant diagrams to be submitted that corroborates the above network design submission.

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<sup>50</sup> See, for instance, ORBEG application guide (<https://broadband.ohio.gov/static/ohio-residential-broadband-expansion-grant-program-application-guide-10192021.pdf>), application form (<https://broadband.ohio.gov/static/Broadband-Grant-Application-10182021.pdf>), and Ohio House Bill 33, Section 122.4020 ([https://search-prod.lis.state.oh.us/solarapi/v1/general\\_assembly\\_135/bills/hb33/EN/06/hb33\\_06\\_EN?format=pdf](https://search-prod.lis.state.oh.us/solarapi/v1/general_assembly_135/bills/hb33/EN/06/hb33_06_EN?format=pdf)).

<sup>51</sup> See, for instance, ORBEG application guide (<https://broadband.ohio.gov/static/ohio-residential-broadband-expansion-grant-program-application-guide-10192021.pdf>), application form (<https://broadband.ohio.gov/static/Broadband-Grant-Application-10182021.pdf>), and Ohio House Bill 33, Section 122.4020 ([https://search-prod.lis.state.oh.us/solarapi/v1/general\\_assembly\\_135/bills/hb33/EN/06/hb33\\_06\\_EN?format=pdf](https://search-prod.lis.state.oh.us/solarapi/v1/general_assembly_135/bills/hb33/EN/06/hb33_06_EN?format=pdf)).

For b(iii), BroadbandOhio will require the following information:

**The amount of the broadband funding gap and the amount of state funds requested.** “Broadband funding gap” means the difference between the total amount of money a broadband provider calculates is necessary to construct the last mile of a specific broadband network and the total amount of money that the provider has determined is the maximum amount of money that is cost effective for the provider to invest in last mile construction for that network.<sup>52</sup>

Per BEAD requirements, BroadbandOhio will additionally require that each proposal from a prospective subgrantee identify, for each location to be served in the proposal, the amount of BEAD funding the prospective subgrantee is seeking to serve that location.<sup>53</sup>

**Information regarding financial or in-kind contributions to be used towards the broadband funding gap.** Applicants will be required to submit as part of their application information regarding the amount of any financial or in-kind contributions to be used towards the broadband funding gap and identification of the contribution sources, which may include, but are not limited to, any combination of the following:

- Funds that the broadband provider is willing to contribute to the broadband funding gap
- Funds received or approved under any other federal or state government grant or loan program
- General revenue funds of a municipal corporation, township, or county comprising the area of the eligible project

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<sup>52</sup> See, for instance, ORBEG application guide (<https://broadband.ohio.gov/static/ohio-residential-broadband-expansion-grant-program-application-guide-10192021.pdf>), application form (<https://broadband.ohio.gov/static/Broadband-Grant-Application-10182021.pdf>), and Ohio House Bill 33, Section 122.4020 ([https://search-prod.lis.state.oh.us/solarapi/v1/general\\_assembly\\_135/bills/hb33/EN/06/hb33\\_06\\_EN?format=pdf](https://search-prod.lis.state.oh.us/solarapi/v1/general_assembly_135/bills/hb33/EN/06/hb33_06_EN?format=pdf)).

<sup>53</sup> NTIA BEAD NOFO page 38.

- Other discretionary funds of the municipal corporation, township, or county comprising the area of the eligible project
- Any alternate payment terms that the broadband provider and any legislative authority in which the project is located have negotiated and agreed to pursuant to section 122.4025 of the Revised Code
- Contributions or grants from individuals, organizations, or companies
- Property tax assessments made by the municipal corporation under Chapter 727. of the Revised Code, township under section 505.881 of the Revised Code, or county under section 303.251 of the Revised Code

Applicants will be required to submit amount, source, and use of each financial and in-kind contribution as part of their application packet.<sup>54</sup>

Regarding the BEAD-required 25% match, BroadbandOhio will collaborate with the Governor’s Office of Appalachia to support prospective subgrantees applying for distressed counties (Scioto, Meigs, Athens, Noble), where highest-scoring ORBEG applicants requiring match support to undertake the proposed project will get match funds through Appalachian Regional Commission (ARC), until funds run out.

For scoring purposes, only cash will be considered for additional points beyond the initial 25% match for BEAD funding requirements.

**Information regarding financial or in-kind contributions received or approved for any part of the overall eligible project cost not applied to the broadband funding gap.** Applicants will be required to submit as part of their application information regarding the source and amount of any financial or in-kind contributions received or approved for any part of the overall eligible project cost, but not applied to the

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<sup>54</sup> See, for instance, ORBEG application guide (<https://broadband.ohio.gov/static/ohio-residential-broadband-expansion-grant-program-application-guide-10192021.pdf>), application form (<https://broadband.ohio.gov/static/Broadband-Grant-Application-10182021.pdf>), and Ohio House Bill 33, Section 122.4020 ([https://search-prod.lis.state.oh.us/solarapi/v1/general\\_assembly\\_135/bills/hb33/EN/06/hb33\\_06\\_EN?format=pdf](https://search-prod.lis.state.oh.us/solarapi/v1/general_assembly_135/bills/hb33/EN/06/hb33_06_EN?format=pdf)).

broadband funding gap. Potential sources can be found above, for “**Information regarding financial or in-kind contributions to be used towards the broadband funding gap.**” Applicants will be required to submit amount, source, and use of each financial and in-kind contribution as part of their application packet.<sup>55</sup>

For **b(iv)**, BroadbandOhio will require the following information:

**Construction Timetable.** All prospective applicants will be required to submit a projected construction timetable, including the anticipated date of the provision of tier two broadband service access within the project.

**Government Authorizations.** All prospective applicants will be required to submit a description of anticipated or preliminary government authorizations, permits, and other approvals required in connection with the project, and an estimated timetable for the acquisition of such approvals. They will also be required to provide a description of any authorizations, permits or other approvals to use public infrastructure that have already been obtained or executed.<sup>56</sup>

**Preliminary list of milestones for project implementation.** As part of ORBEG awardee agreements, BroadbandOhio requires awardees to submit milestones, upon which completion grant funds will be disbursed on a reimbursable basis. In line with BEAD requirements, BroadbandOhio will require prospective subgrantees to submit a preliminary list of milestones for project implementation, to be refined and finalized as part of the awardee agreements if selected.

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<sup>55</sup> See, for instance, ORBEG application guide (<https://broadband.ohio.gov/static/ohio-residential-broadband-expansion-grant-program-application-guide-10192021.pdf>), application form (<https://broadband.ohio.gov/static/Broadband-Grant-Application-10182021.pdf>), and Ohio House Bill 33, Section 122.4020 ([https://search-prod.lis.state.oh.us/solarapi/v1/general\\_assembly\\_135/bills/hb33/EN/06/hb33\\_06\\_EN?format=pdf](https://search-prod.lis.state.oh.us/solarapi/v1/general_assembly_135/bills/hb33/EN/06/hb33_06_EN?format=pdf)).

<sup>56</sup> See, for instance, ORBEG application guide (<https://broadband.ohio.gov/static/ohio-residential-broadband-expansion-grant-program-application-guide-10192021.pdf>), application form (<https://broadband.ohio.gov/static/Broadband-Grant-Application-10182021.pdf>), and Ohio House Bill 33, Section 122.4020 ([https://search-prod.lis.state.oh.us/solarapi/v1/general\\_assembly\\_135/bills/hb33/EN/06/hb33\\_06\\_EN?format=pdf](https://search-prod.lis.state.oh.us/solarapi/v1/general_assembly_135/bills/hb33/EN/06/hb33_06_EN?format=pdf)).

**For b(v)**, BroadbandOhio will require prospective subgrantees to submit a capital investment schedule that would evidence complete build-out and the initiation of service within 4 years of the date on which the entity receives the subgrant. The capital investment schedule must be in line with above construction timetable and milestones to demonstrate that deployment will be completed within the required timeframe.

All prospective subgrantees will be required to submit the information above as part of the application packet.

BroadbandOhio will assess the received information to determine that they meet technical capability requirements through the following:

**Completion of application packet.** Applicants will be screened for submitting all required supporting document for this requirement. This includes the requirements for technical certification, information regarding appropriately skilled and credentialed workforce, network design, diagram, project costs, build-out timeline and milestones, and a capital investment schedule.

**Satisfaction of specific document requirements.** Applicants will be screened for fully satisfying document-specific requirements. For instance, the build-out plan will be cross-checked to ensure that it aligns with the capital investment schedule, and will be checked to verify that the proposed plan will complete deployment within 4 years. Additionally, at the time of the engineer certification, the certification will be cross-checked to ensure that the certifying engineer holds a current, applicable license in Ohio.

**Sufficient proof for stated technical capability.** The applicant's narrative for technical capability will be cross-checked with the submitted application material to confirm that the applicant has provided relevant supporting evidence cited in the narrative and provides sufficient explanation of the relevance of the proof submitted, to assess the soundness of the narrative. For instance, if the applicant references specific



credentials to prove their technical capabilities, it must also include a detailed explanation of how the given credential is relevant for the proposed project, and any available proof for the given credential.

**(Req 2.4.14):** Description of how BroadbandOhio will ensure any prospective subgrantee deploying network facilities meets the minimum qualifications for compliance with applicable laws as outlined on page 74 of the BEAD NOFO, including:

- a. How BroadbandOhio will require prospective subgrantees to demonstrate that they are capable of carrying out funded activities in a competent manner in compliance with all applicable federal, state, territorial, and local laws.
- b. How BroadbandOhio will require prospective subgrantees to permit workers to create worker-led health and safety committees that management will meet with upon reasonable request.

**For (a)**, in line with **2.7.1**, BroadbandOhio will require prospective subgrantees to submit the following:

- Record of past compliance with federal labor and employment laws, which must address information on these entities' compliance with federal labor and employment laws on broadband deployment projects in the last five years
- Certification from an Officer/Director-level employee (or equivalent) of the prospective subgrantee evidencing consistent past compliance with federal labor and employment laws by the subgrantee, as well as all contractors and subcontractors
- Written confirmation that the prospective subgrantee discloses any instances in which it or its contractors or subcontractors have been found to have violated laws such as the Occupational Safety and Health Act, the Fair Labor

Standards Act, or any other applicable labor and employment laws for the preceding five years.

Expanding upon the above requirement, BroadbandOhio will additionally require:

- A record and explanation of Occupational Safety and Health Administration violations within the 5 years preceding the application date
- A record and explanation of de-certification for state government procurement at any state in the United States within the 5 years preceding the application date

This measure will additionally help evaluate the prospective subgrantee's capability of carrying out funded activities in a competent manner in compliance with all applicable federal, state, territorial, and local laws.

As part of technical capabilities qualification review above, BroadbandOhio will check that the submitted build-out timeline and capital investment schedule is projected to complete build-out and the initiation of service within four years of the date on which the entity receives the subgrant.

**For (b)**, in line with **2.7.1**, BroadbandOhio will require prospective subgrantees to submit plans for ensuring compliance with federal labor and employment laws, which must include the following:

- Information on applicable wage scales and wage and overtime payment practices for each class of employees expected to be involved directly in the physical construction of the broadband network
- How the subgrantee will ensure the implementation of workplace safety committees that are authorized to raise health and safety concerns in connection with the delivery of deployment projects, with which management will meet with upon reasonable request.

All prospective subgrantees will be required to submit the information above as part of the application packet.

BroadbandOhio will assess the received information to determine that they meet compliance requirements through the following:

**Completion of application packet.** Applicants will be screened for submitting all required supporting document for this requirement. This includes the requirements for record of compliance, certification from management, written record and explanation of relevant violations and de-certification for state procurement, and plans for ensuring compliance (including applicable wage scale and overtime payment and workforce safety committee plans).

**Satisfaction of specific document requirements.** Applicants will be screened for fully satisfying document-specific requirements. For instance, the certification of past compliance will be cross-checked to ensure that the signing employee is an Officer/Director-level employee.

**Sufficient proof for stated capability for compliance.** The applicant’s narrative for capability for compliance will be cross-checked with the submitted application material to confirm that the applicant has provided relevant supporting evidence cited in the narrative and provides sufficient explanation of the relevance of the proof submitted, to assess the soundness of the narrative. For instance, if the applicant has any OSHA violations, the extent of violations (e.g., cross-check for significantly high count of violations) and their explanation will be reviewed to determine whether the prospective subgrantee has sufficiently addressed and mitigated the violations to ensure it does not reoccur.

(Req 2.4.15): Description of how BroadbandOhio will ensure any prospective subgrantee deploying network facilities meets the minimum qualifications for operational capability as outlined on pages 74 – 75 of the BEAD NOFO, including:

- a. How BroadbandOhio will require prospective subgrantees to certify that they possess the operational capability to qualify to complete and operate the Project.
- b. How BroadbandOhio will require prospective subgrantees to submit a certification that they have provided a voice, broadband, and/or electric transmission or distribution service for at least two (2) consecutive years prior to the date of their application submission or that they are a wholly owned subsidiary of such an entity and attest to and specify the number of years the prospective subgrantee or its parent company has been operating.
- c. How BroadbandOhio will require prospective subgrantees that have provided a voice and/or broadband service, to certify that it has timely filed Commission Form 477s and the Broadband DATA Act submission, if applicable, as required during this time period, and otherwise has complied with the Commission's rules and regulations.
- d. How BroadbandOhio will require prospective subgrantees that have operated only an electric transmission or distribution service, to submit qualified operating or financial reports, that it has filed with the relevant financial institution for the relevant time period along with a certification that the submission is a true and accurate copy of the reports that were provided to the relevant financial institution.
- e. In reference to new entrants to the broadband market, how BroadbandOhio will require prospective subgrantees to provide evidence sufficient to demonstrate that the newly formed entity has obtained, through internal or external resources, sufficient operational capabilities.

**For (a)**, all prospective applicants will be required to provide a narrative of their operational capability to qualify to complete and operate the Project. This must include:

**Description of operational capability.** All prospective subgrantees must certify operational details, including:

- Years providing internet service
- Number of current subscribers
- Completed federally funded deployment projects, with their source of funding and timeframe for completion or non-completion
- Penalties paid by the prospective subgrantee, a subsidiary or affiliate of the prospective subgrantee or the holding company of the prospective subgrantee relative to deployment projects
- The number of times prospective subgrantee has ever been a defendant in a state of Ohio criminal proceeding or civil litigation relevant to qualifications to deployment broadband infrastructure
- Whether the prospective subgrantee has ever defaulted on a federal or state obligation to deploy broadband infrastructure and if so, to provide a summary

**Description of Customer Service capability.** All prospective subgrantees must provide a description of their customer service capabilities, including any locally based call centers or customer service offices. This information must include any relevant information including, but not limited to, (i) how long it takes to resolve complaints, (ii) wait times for customer service, (iii) surveys of customer satisfaction, (iv) service rate information for new customers, (v) any call centers or customer service centers that are located in Ohio (N/A if there are no offices of this sort in the state), and (vi) any other relevant information detailing the customer service capability deemed relevant.

**Customer Service Policies.** All prospective subgrantees must provide a copy of their general customer service policies, including any policy to credit customers for service outages or the provider’s failure to keep scheduled appointments for service. This

should be the documentation that is otherwise provided to a new customer that receives service from the applicant.

Documentation related to the requirements above will be collected and reviewed by qualified personnel.

**For (b)**, all prospective subgrantees that has provided a voice, broadband, and/or electric transmission or distribution service for at least the two (2) consecutive years prior to the date of its application submission or that it is a wholly owned subsidiary of such an entity, must submit a certification that attests to these facts and specify the number of years the prospective subgrantee or its parent company has been operating. This information will be leveraged for the scoring criteria as well.

**For (c)**, all prospective subgrantees that have provided a voice and/or broadband service will be required to certify that it has timely filed Commission Form 477s and the Broadband DATA Act submission, if applicable, as required during this time period, and otherwise has complied with the Commission's rules and regulations. Alternatively, a prospective subgrantee should explain any pending or completed enforcement action, civil litigation, or other matter in which it failed to comply or was alleged to have failed to comply with Commission rules or regulations.

**For (d)**, all prospective subgrantees that have operated only an electric transmission or distribution service will be required to submit qualified operating or financial reports, that it has filed with the relevant financial institution for the relevant time period along with a certification that the submission is a true and accurate copy of the reports that were provided to the relevant financial institution.

As part of this requirement, BroadbandOhio will additionally require prospective subgrantees to submit a list of any complaints filed to the Public Utilities Commission of Ohio (PUCO) and an explanation for each for the past 5 years, as a means of understanding the prospective subgrantee's operational and customer service capability. If the prospective subgrantee has multiple unaddressed complains and/or

outages in the past 5 years, it will less likely have the operational capacity to build reliable broadband network.

**For (e)**, all prospective subgrantees that are new entrants to the broadband market will be required to provide evidence sufficient to demonstrate that the newly formed entity has obtained, through internal or external resources, sufficient operational capabilities. BroadbandOhio will require evidence including but not limited to resumes from key personnel, project descriptions and narratives from contractors, subcontractors, or other partners with relevant operational experience, and any other comparable evidence deemed relevant.

All prospective subgrantees will be required to submit the information above as part of the application packet.

BroadbandOhio will assess the received information to determine that they meet operational requirements through the following:

**Completion of application packet.** Applicants will be screened for submitting all required supporting document for this requirement.

**Satisfaction of specific document requirements.** Applicants will be screened for fully satisfying document-specific requirements. For instance, the information regarding number of years providing service will be checked to ensure it has been provided with satisfactory proof and relevant certification; information on PUCO complaints will be cross-checked to ensure it covers the full time period of 5 years.

**Sufficient proof for stated operational capability.** The applicant's narrative for operational capability for compliance will be cross-checked with the submitted application material to confirm that the applicant has provided relevant supporting evidence cited in the narrative and provides sufficient explanation of the relevance of the proof submitted, to assess the soundness of the narrative. For instance, specific application material that can be verified with relevant authorities (e.g., FCC for (c), PUCO for (d)) will be additionally cross-checked by BroadbandOhio for validity, and

applicants submitting false information will be disqualified if not properly rectified. Beyond the cross-checking above, narratives including customer service capabilities will be cross-checked with submitted evidence. For instance, for a new entrant applicant, if the application references resumes for key personnel as proof of operational capability, it must also include a detailed explanation of how the resume demonstrates sufficient operational capability relevant for the proposed project.



(Req 2.4.16): Description of how BroadbandOhio will ensure that any prospective subgrantee deploying network facilities meets the minimum qualifications for providing information on ownership as outlined on page 75 of the BEAD NOFO, including:

- a. How BroadbandOhio will require prospective subgrantees to provide ownership information consistent with the requirements set forth in 47 C.F.R. § 1.2112(a)(1)-(7).

BroadbandOhio will require the full disclosure of the following information by all prospective subgrantees, in line with 47 C.F.R. § 1.2112(a)(1)-(7):

- (1) List of the real party or parties in interest in the applicant or application, including a complete disclosure of the identity and relationship of those persons or entities directly or indirectly owning or controlling (or both) the applicant;
- (2) List of the name, address, and citizenship of any party holding 10 percent or more of stock in the applicant, whether voting or nonvoting, common or preferred, including the specific amount of the interest or percentage held;
- (3) List, in the case of a limited partnership, of the name, address and citizenship of each limited partner whose interest in the applicant is 10 percent or greater (as calculated according to the percentage of equity paid in or the percentage of distribution of profits and losses);
- (4) List, in the case of a general partnership, of the name, address and citizenship of each partner, and the share or interest participation in the partnership;
- (5) List, in the case of a limited liability company, of the name, address, and citizenship of each of its members whose interest in the applicant is 10 percent or greater;

- (6) List of all parties holding indirect ownership interests in the applicant as determined by successive multiplication of the ownership percentages for each link in the vertical ownership chain, that equals 10 percent or more of the applicant, except that if the ownership percentage for an interest in any link in the chain exceeds 50 percent or represents actual control, it shall be treated and reported as if it were a 100 percent interest; and
- (7) List of any FCC-regulated entity or applicant for an FCC license, in which the applicant or any of the parties identified in paragraphs (a)(1) through (a)(5) of this section, owns 10 percent or more of stock, whether voting or nonvoting, common or preferred. This list must include a description of each such entity's principal business and a description of each such entity's relationship to the applicant (e.g., Company A owns 10 percent of Company B (the applicant) and 10 percent of Company C, then Companies A and C must be listed on Company B's application, where C is an FCC licensee and/or license applicant).<sup>57</sup>

The prospective subgrantee must provide a narrative and proof of which disclosure requirement would apply between (3)-(5) (e.g., proof of ownership regarding limited partnership, general partnership, or limited liability company).

All prospective subgrantees will be required to submit the information above as part of the application packet, which will be updated in 2.4.11.1.

BroadbandOhio will assess the received information to determine that they meet ownership disclosure requirements by evaluating whether the prospective subgrantee has provided full and sufficient proof for each requirement. Applicants will be screened for submitting all required supporting document for this requirement. This will include the proof of ownership to determine which disclosure requirement would apply.

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<sup>57</sup> 47 C.F.R. § 1.2112(a)(1)-(7), Code of Federal Regulations, <https://www.ecfr.gov/current/title-47/chapter-1/subchapter-A/part-1/subpart-Q/subject-group-ECFR7e6f5a3219dc9cd/section-1.2112>

(Req 2.4.17): Description of how BroadbandOhio will ensure any prospective subgrantee deploying network facilities meets the minimum qualifications for providing information on other public funding as outlined on pages 75 – 76 of the BEAD NOFO, including:

- a. How it will require prospective subgrantees to disclose for itself and for its affiliates, any application the subgrantee or its affiliates have submitted or plan to submit, and every broadband deployment project that the subgrantee or its affiliates are undertaking or have committed to undertake at the time of the application using public funds.
- b. At a minimum, BroadbandOhio shall require the disclosure, for each broadband deployment project, of: (a) the speed and latency of the broadband service to be provided (as measured and/or reported under the applicable rules), (b) the geographic area to be covered, (c) the number of unserved and underserved locations committed to serve (or, if the commitment is to serve a percentage of locations within the specified geographic area, the relevant percentage), (d) the amount of public funding to be used, (e) the cost of service to the consumer, and (f) the matching commitment, if any, provided by the subgrantee or its affiliates.

**For (a)**, BroadbandOhio will require all prospective subgrantees to disclose, for itself and its affiliates, any broadband deployment projects using public funds that they have submitted an application for, plan to submit an application for, are undertaking, or have committed to undertake at the time of the application. Specifically, applicants will be asked to confirm whether they plan to or are currently participating in projects using funds provided under: (i) the Families First Coronavirus Response Act (Public Law 116- 127; 134 Stat. 178); (ii) the CARES Act (Public Law 116-136; 134 Stat. 281), (iii) the Consolidated Appropriations Act, 2021 (Public Law 116-260; 134 Stat. 1182); (iv) the American Rescue Plan of 2021 (Public Law 117-2; 135 Stat. 4); (v) any federal Universal

Service Fund high-cost program (e.g., RDOF, CAF), or (vi) any BroadbandOhio or local universal service or broadband deployment funding program (and, if so, the name of the funding vehicle).

**For (b)**, BroadbandOhio will require all prospective subgrantees to disclose, for each project, the following at a minimum: (i) the speed and latency of the broadband service to be provided (as measured and/or reported under the applicable rules), (ii) the geographic area to be covered, (iii) the number of unserved and underserved locations (including any CAIs, if applicable) committed to serve (or, if the commitment is to serve a percentage of locations within the specified geographic area, the relevant percentage), (iv) the amount of public funding to be used, (v) the cost of service to the consumer, and (vi) the matching commitment, if any, provided by the subgrantee or its affiliates. BroadbandOhio intends to cross-check this information with available information (e.g., NTIA Eligible Entity Planning Toolkit, existing federal enforceable commitments) and will provide additional guidance on how this information should be submitted by the applicant to help streamline this cross-checking process.

All prospective subgrantees will be required to submit the information above as part of the application packet, which will be updated in 2.4.11.1.

BroadbandOhio will assess the received information to determine that they meet requirements for providing information on other public funding through evaluating whether the prospective subgrantee has provided full and sufficient information for each requirement. Applicants will be screened for submitting all required supporting document for this requirement. This information will then be cross-checked with available information (e.g., NTIA Eligible Entity Planning Toolkit, existing federal enforceable commitments) to confirm validity of the provided information. applicants submitting false information will be disqualified if not properly rectified.

# Non-Deployment Subgrantee Selection (Requirement 9)

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(Req 2.5.1) If applicable, a description of a fair, open, and competitive subgrantee selection process for eligible non-deployment activities, including the objective means, or process by which objective means will be developed, for selecting subgrantees for eligible non-deployment activities.

## **Deployment workforce initiatives**

BroadbandOhio will use a competitive RFP process to award \$50M of its BEAD deployment funds for one or multiple subgrants to acquire an industry sector intermediary who will support workforce planning and implementation projects over a 5-year timeframe. Ohio has already created a workforce strategy for the state with the help of an intermediary. Ohio will competitively bid out an intermediary to oversee the implementation of the program during the BEAD implementation phase. The strategy and the intermediary will be leveraged to identify industry recognized credential programs, set up workforce training programs at our colleges and universities, help develop and implement additional degree programs, and work to determine whether additional grant programs are necessary to assist workers in receiving these credentials. These activities will enable Ohio to develop the required workforce for

broadband expansion, which will accelerate the deployment of BEAD-funded infrastructure, and ultimately help reduce the cost of BEAD implementation. Further, Ohio intends to score applicants on how they train their new hires to build out their awarded areas. The programs in the industry sector partnership will automatically qualify as eligible programs that will meet this requirement. BBOH is confident that, even with the allocation of \$50M to workforce planning and programs, BBOH will have sufficient funds to ensure complete coverage of all unserved and underserved locations in the state. This funding will be used to:

- Sustain the Sector Partnership through 2028
- Sustain the six regional nodes that have been selected for each JobsOhio region through 2028
- Fund education and workforce initiatives across Ohio, including: career awareness and internships for K12 and postsecondary students and new programs at career centers, community colleges, and universities
- Develop additional certificate programs at career centers and Ohio Technical Centers
- Develop an associate degree for community college
- Develop a major and minor at universities
- Expand pre-apprenticeship and apprenticeship programs
- Provide last-dollar tuition assistance so programs remain low- or no-cost
- Support instructor and faculty recruitment/retention so programs can run consistent cohorts
- Fund dedicated career services so program graduates seamlessly transition to employment
- Fund marketing and awareness initiatives to drive enrollment in education/training programs.

(Req 2.5.2) Description of BroadbandOhio’s plan for the following:

- a. How BroadbandOhio will employ preferences in selecting the type of non-deployment initiatives it intends to support using BEAD Program funds.
- b. How the non-deployment initiatives will address the needs of residents within the jurisdiction.
- c. The ways in which engagement with localities and stakeholders will inform the selection of eligible non-deployment activities.
- d. How BroadbandOhio will determine whether other uses of the funds might be more effective in achieving the BEAD Program’s equity, access, and deployment goals.

BroadbandOhio believes upfront efforts toward developing a skilled, available broadband workforce within Ohio will help lower barriers that prevent providers from participating in BEAD by preempting workforce-related roadblocks. BroadbandOhio anticipates these measures to help ensure greater participation and interest by providers, raise competition for BEAD funds, and thereby help ensure higher-quality bids – all of which BroadbandOhio believes will contribute to a more efficient BEAD fund outlay. The specific rationale for why workforce availability has been identified as a potential roadblock for provider participation, and why BroadbandOhio believes direct implementation of this effort is critical, is outlined below: Currently emerging gaps in broadband workforce availability in Ohio, which threaten the BEAD timelines.

In Ohio, it is projected that the state will need over 2,500 workers to expand broadband and over 26,000 workers to deploy 5G technology through 2030. The broadband and 5G industry (telecommunications) are facing a widening skills gap due to a lack of standardized training programs and professional degree programs. The aging workforce and high turnover rates are contributing to a dwindling workforce in the industry. The constant evolution of technologies and lack of industry-academia

partnerships pose significant challenges. The strategy hopes to implement countervailing efforts to address these gaps. Listening session participants described the importance of addressing workforce readiness issues.

During BEAD-SDOP listening sessions conducted during the preparation of the Five-Year Action Plan, ISPs noted that labor is increasingly difficult to find. While training programs could help mitigate this labor gap, a listening session participant noted that workforce training programs for broadband deployment-related jobs may face attrition due to slow ramp-up in salary and the labor-intense nature of the job compared to other jobs with similar entry wage levels. Barriers to broadband deployment were highlighted by stakeholders as a key area to be addressed by BroadbandOhio.

During the BEAD-SDOP stakeholder engagement and during the workforce strategy development led by the Governor's Office of Workforce Transformation, ISPs highlighted the need for the state's attention and mitigation efforts toward workforce readiness: a. Broadband & 5G Workforce Strategy development. The strategy is fundamentally grounded on areas that stakeholders have identified as those they believed the state should concentrate its efforts on to help address broadband workforce challenges.

By implementing the workforce strategy directly, BroadbandOhio would thus help address key areas that stakeholders have identified as focus areas for the state. For instance, to ensure Ohio conducted a thorough analysis, the Governor's Office of Workforce Transformation and BroadbandOhio engaged stakeholders across the broadband and 5G spectrum from telecommunications, construction subcontracting, industry associations, trade groups, rural electric co-ops, nonprofits, career-technical education providers, Ohio Technical Centers, and two- and four-year colleges and universities.

Over four weeks, the state used 10 stakeholder meetings to ensure it was accurately tracking the preliminary issues identified, and to solicit feedback on what Ohio should do to address the broadband and 5G workforce shortage. The meetings created



positive collaboration between industry and education on identifying ways to build the broadband workforce needed in Ohio. The strategy additionally leveraged the Federal Communications Commission (FCC) Broadband Deployment Advisory Committee (BDAC)'s report that examined the broadband industry's workforce challenges in 2019.

The BDAC report was an extensive, 15-month process that looked at the broadband industry's workforce challenges at the national level. The Co-Chair of the FCC BDAC report, Dr. Rikin Thakker, who then served as the Chief Technology Officer at the Wireless Infrastructure Association (WIA), was an active participant in Ohio's broadband workforce analysis, using his national expertise to assist the state in identifying the key challenges for Ohio to address. The BDAC report and discussions with stakeholders clarified the need for the state to focus on a few key issue areas, which serve as the 3 pillars of the Strategy: broadband industry career awareness, education and training programs, and awareness of state and federal funding for training programs. b. BEAD-SDOP survey. ISP survey results additionally showed that workforce readiness is a key area that ISPs want additional support from BroadbandOhio. When asked about the main types of support needed from BroadbandOhio to continue increasing access to affordable internet, internet capable devices, and digital skills, approximately 40% of the 21 ISP respondents cited "ensuring skilled workforce for broadband roles" as a key area, second only to "increasing funding/grants for broadband deployment."

**(Req 2.5.3)** Description of the BroadbandOhio's plan to ensure coverage to all unserved and underserved locations prior to allocating funding to non-deployment activities.

Broadband Ohio's first priority will be to ensure its ability to reach 100% of unserved and underserved locations in the State.

(Req 2.5.4): Description of how BroadbandOhio will ensure prospective subgrantees meet the general qualifications outlined on pages 71 – 72 of the BEAD NOFO.

BroadbandOhio will use a competitive RFP process to award \$50M of its BEAD deployment funds for one or multiple subgrants to acquire an industry sector intermediary who will support workforce planning and implementation projects over a 5-year timeframe. Ohio has already created a workforce strategy for the state with the help of an intermediary. Ohio will competitively bid out an intermediary to oversee the implementation of the program during the BEAD implementation phase.

# Eligible Entity Implementation Activities (Requirement 10)

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(Req 2.6.1): Description of initiatives BroadbandOhio proposes to implement as the recipient without making a subgrant, and why it proposes that approach.

BroadbandOhio plans to implement other programmatic and administrative activities related to the challenge and subgrantee selection execution and administrative processes without making a subgrant. However, Broadband Ohio's first priority will be to ensure its ability to reach 100% of unserved and underserved locations in the State.

**Other programmatic and administrative activities.** BroadbandOhio will run its Challenge Process as described in Initial Proposal Volume I, and its Subgrantee Selection Process as described in Section 2.4 in Initial Proposal Volume II. The state will run a BEAD-compliant subgrantee process, which will inform the use of BEAD funding on deployment activities. BroadbandOhio will oversee key grant application processing, program management, and compliance activities, leveraging a combination of internal staff, staff augmentation, and contractor support as needed, to ensure that administrative and programmatic costs are applied appropriately and efficiently.

BroadbandOhio has relevant experience implementing statewide broadband funding rounds through its ORBEG program, and will leverage this knowledge toward efficiently undertaking programmatic and administrative activities for successful BEAD implementation. Funds will be needed to ensure efficient, effective, and compliant execution given the large scale, scope, extensive requirements – all within the required timelines.

# Labor Standards and Protection (Requirement 11)

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(Req 2.7.1) Description of the specific information that prospective subgrantees will be required to provide in their applications and how BroadbandOhio will weigh that information in its competitive subgrantee selection processes. Information from prospective subgrantees must demonstrate the following and must include information about contractors and subcontractors:

- a. Prospective subgrantees' record of past compliance with federal labor and employment laws, which:
  - i. Must address information on these entities' compliance with federal labor and employment laws on broadband deployment projects in the last three years;
  - ii. Should include a certification from an Officer/Director-level employee (or equivalent) of the prospective subgrantee evidencing consistent past compliance with federal labor and employment laws by the subgrantee, as well as all contractors and subcontractors; and

- iii. Should include written confirmation that the prospective subgrantee discloses any instances in which it or its contractors or subcontractors have been found to have violated laws such as the Occupational Safety and Health Act, the Fair Labor Standards Act, or any other applicable labor and employment laws for the preceding three years.
- b. Prospective subgrantees' plans for ensuring compliance with federal labor and employment laws, which must address the following:
  - i. How the prospective subgrantee will ensure compliance in its own labor and employment practices, as well as that of its contractors and subcontractors, including:
    1. Information on applicable wage scales and wage and overtime payment practices for each class of employees expected to be involved directly in the physical construction of the broadband network; and
    2. How the subgrantee will ensure the implementation of workplace safety committees that are authorized to raise health and safety concerns in connection with the delivery of deployment projects.

As part of the requirements for prospective subgrantees to demonstrate their ability to comply with relevant laws (pre-qualifications for receiving a subgrant), BroadbandOhio will require prospective subgrantees to submit record of compliance with federal labor and employment laws, as well as the records of any other entities participating in the project, including contractors and subcontractors. The information must include the following:

- Record of past compliance with federal labor and employment laws, which must include information on these entities' compliance with federal labor and employment laws on broadband deployment projects in the last five years.

- Certification from an officer/director-level employee (or equivalent) of the prospective subgrantee evidencing that the prospective subgrantee, as well as all contractors and subcontractors, has consistently complied with federal labor and employment laws.
- Written confirmation that the prospective subgrantee has disclosed any instances in which it or its contractors or subcontractors have been found to have violated laws such as the Occupational Safety and Health Act, the Fair Labor Standards Act, or any other applicable labor and employment laws within the preceding five years.

In addition to the above, BroadbandOhio will require:

- A record and explanation of Occupational Safety and Health Administration violations within the five years preceding the application date.
- A record and explanation of de-certification for state government procurement by any state in the United States within the five years preceding the application date.

This measure will additionally help evaluate the prospective subgrantee's ability to carry out funded activities competently and in compliance with all applicable federal, state, territorial, and local laws.

BroadbandOhio will also require prospective subgrantees to submit plans for ensuring compliance with federal labor and employment laws, which must include the following:

- Information on applicable wage scales and wage and overtime payment practices for each class of employees expected to be involved directly in the physical construction of the broadband network. BroadbandOhio will additionally require information on training and safety, job quality, local hire and targeted hire, accountability and subcontracting practices, and ongoing operational workforce.

- How the subgrantee will establish workplace safety committees that are authorized to raise health and safety concerns related to the delivery of deployment projects and with whom management may meet upon reasonable request.

All prospective subgrantees will be required to submit the information above as part of the application packet. Without meeting this requirement, the prospective subgrantee will not be able to participate in the subgrantee process.

(Req 2.7.2) Description of whether BroadbandOhio will make mandatory for all subgrantees (including contractors and subcontractors) any of the following and, if required, how it will incorporate them into binding legal commitments in the subgrants it makes:

- a. Using a directly employed workforce, as opposed to a subcontracted workforce;
- b. Paying prevailing wages and benefits to workers, including compliance with Davis-Bacon and Service Contract Act requirements, where applicable, and collecting the required certified payrolls;
- c. Using project labor agreements (i.e., pre-hire collective bargaining agreements between unions and contractors that govern terms and conditions of employment for all workers on a construction project);
- d. Use of local hire provisions;
- e. Commitments to union neutrality;
- f. Use of labor peace agreements;



- g. Use of an appropriately skilled workforce (e.g., through Registered Apprenticeships or other joint labor-management training programs that serve all workers, particularly those underrepresented or historically excluded);
- h. Use of an appropriately credentialed workforce (i.e., satisfying requirements for appropriate and relevant pre-existing occupational training, certification, and licensure); and
- i. Taking steps to prevent the misclassification of workers.

BroadbandOhio does not intend to make any of the above labor standards and protections mandatory for subgrantees.

# Workforce Readiness (Requirement 12)

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(Req 2.8.1): Description of how BroadbandOhio and their subgrantees will advance equitable workforce development and job quality objectives to develop a skilled, diverse workforce, including (from page 59 of the BEAD NOFO):

- a. A description of how BroadbandOhio will ensure that subgrantees support the development and use of a highly skilled workforce capable of carrying out work in a manner that is safe and effective;
- b. A description of how BroadbandOhio will develop and promote sector-based partnerships among employers, education and training providers, the public workforce system, unions and worker organizations, and community-based organizations that provide relevant training and wrap-around services to support workers to access and complete training (such as child care, transportation, mentorship, etc.), to attract, train, retain, or transition to meet local workforce needs and increase high-quality job opportunities;
- c. A description of how BroadbandOhio will plan to create equitable on-ramps into broadband-related jobs, maintain job quality for new and incumbent workers engaged in the sector; and continually engage with labor organizations and community-based organizations to maintain worker voice throughout the planning and implementation process; and

- d. A description of how BroadbandOhio will ensure that the job opportunities created by the BEAD Program and other broadband funding programs are available to a diverse pool of workers.

Under the leadership of and in partnership with the Ohio Governor’s Office of Workforce Transformation (OWT), BroadbandOhio plans to advance equitable workforce development and job quality objectives to develop a skilled, diverse workforce through the implementation of the “Strengthening Ohio’s Broadband and 5G Workforce Strategy” (“Strategy”). Released in September 2021, the strategy calls for an Ohio Broadband and 5G Sector Partnership (“Sector Partnership”) to lead efforts to increase awareness of broadband industry careers, establish and scale training and education programs, and capitalize on state and federal funding programs to finance the work. The full write-up of the Strategy is available [here](#).

Below is a description of how the Strategy specifically addresses the four requirements outlined above.

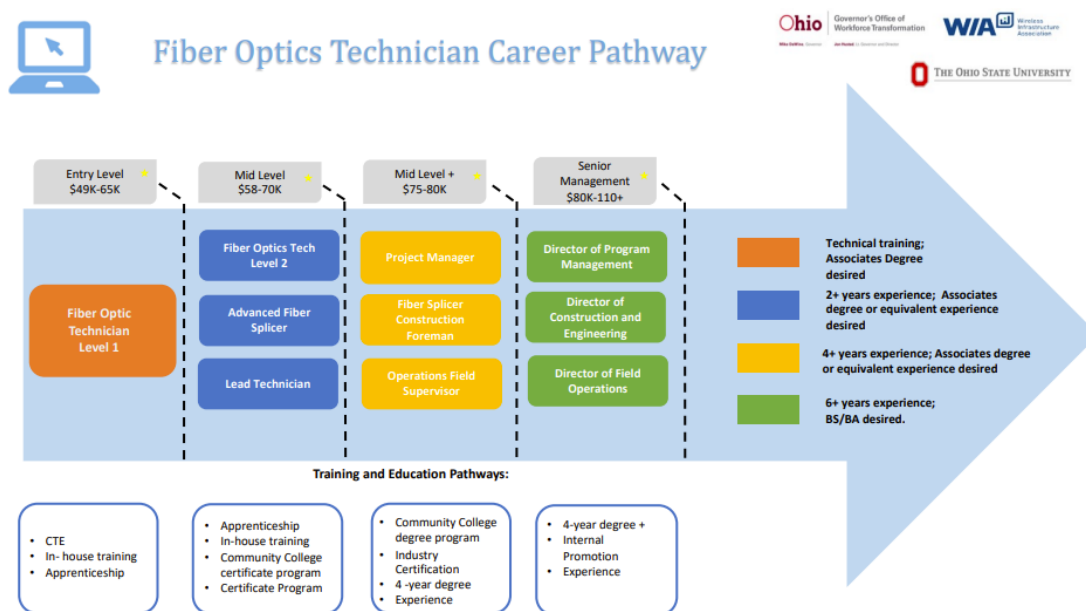
- a. **Use of highly skilled workforce:** Description of how BroadbandOhio will ensure that subgrantees support the development and use of a highly skilled workforce capable of carrying out work in a manner that is safe and effective.

The “Strengthening Ohio’s Broadband and 5G Workforce Strategy” outlines the State of Ohio’s strategy for ensuring the availability of a highly skilled workforce. The strategy addresses three key objectives toward achieving this goal:

**Raising awareness of broadband industry careers by exposing middle-school and high-school students to the industry through curriculum and internships.** To increase awareness of broadband industry careers, the Strategy leverages curriculum development, internships, and opportunities for pre-apprenticeships and apprenticeships. Along the educational continuum, a career pathway model will be created to show stakeholders the various entry and exit points of broadband careers. 7 career pathways have been designed to date, including paths for Fiber Optics Technicians, Telecom Tower Technicians, Radio Frequency (RF) Engineers, Utility

Construction Installers, Utility Locators, Small Cell Technicians, and In-Building Wireless Technicians. Below includes an example career pathway for the Fiber Optics Technician Career Pathway.

Exhibit 1: Example Career Pathway Model: Fiber Optics Technician Career Pathway



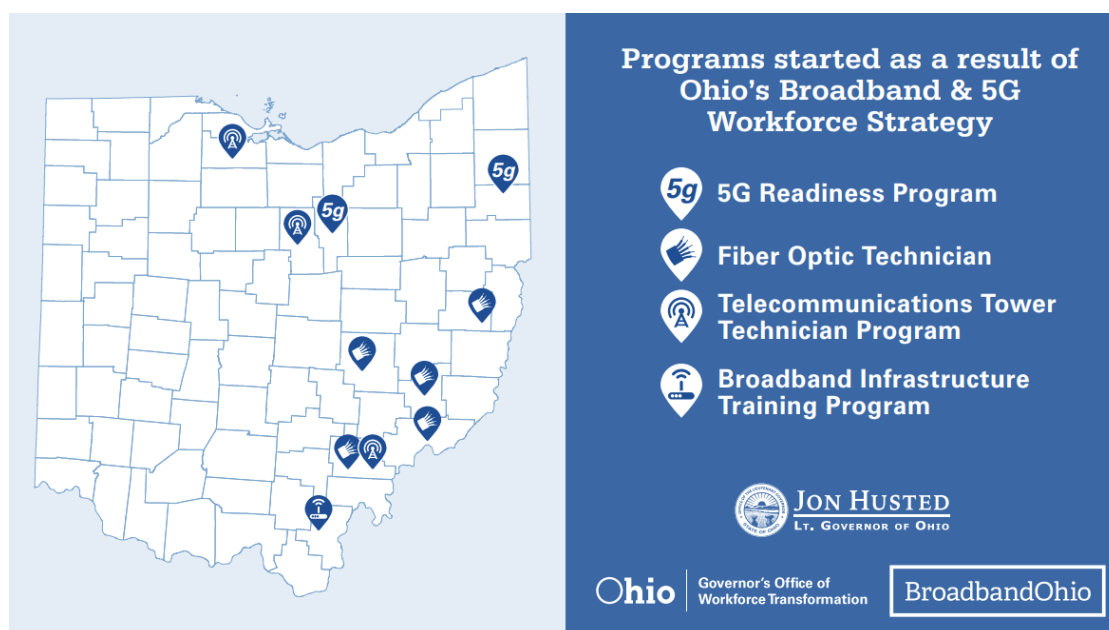
Various curricula and work opportunities are being developed to help students explore career paths within the industry and earn credit for high school graduation and their postsecondary education. These efforts will inform students about broadband occupations while equipping them with the essential skills necessary to succeed in those occupations.<sup>58</sup>

**Developing and supporting more education and training programs to educate and train Ohioans.** Current institutions and training providers have been identified to be partners with the telecom industry to identify plug-and-play, non-degree curriculum

<sup>58</sup> ["Strengthening Ohio's Broadband & 5G Workforce,"](#) BroadbandOhio.

models that can be implemented quickly at these organizations to start addressing the labor crunch. To date, 11 training programs have been created as a part of the workforce strategy.

**Exhibit 2: Current Program Map with the 11 training programs throughout the state**



In addition, the “Broadband and 5G Connectivity Center” (“Connectivity Center”) has been established and housed at The Ohio State University, to execute the statewide strategy set by the Sector Partnership.<sup>59</sup> This is where secondary and postsecondary education stakeholders, in partnership with industry, is mapping out the process to create a seamless ecosystem of curriculum and training programs geared for careers in the broadband and 5G industry that are implemented strategically at the smaller nodes, starting from mapping all the postsecondary programs in Ohio and identifying which could be quickly modified to integrate plug-and-play programs developed or distributed by the Connectivity Center. In the future, the Connectivity Center will

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<sup>59</sup> <https://5g-oh.osu.edu/>

additionally develop and implement industry-centered registered apprenticeships, majors and degree programs geared towards the broadband and 5G industry.<sup>60</sup>

**Capitalizing on state and federal funding programs, like TechCred and WIOA, to help finance the education and training that will bring to market the talent needed for the broadband and 5G industry in Ohio.**

To enable and scale workforce development efforts, Ohio is leveraging existing funding vehicles such as TechCred and Individual Microcredential Assistance Program (IMAP). These programs will be expanded to build the skills of incumbent workers. As training programs are created, local workforce development boards will engage with employers in their area to ascertain and meet their talent needs. The OWT will continue to work closely with the industry to ensure that employers are aware of TechCred and that they are connected with those who have completed IMAP. This effort will also involve cooperating with incumbent industry players and their associations to identify industry subcontractors and other ancillary employers who may benefit from learning about these programs.<sup>61</sup>

To ensure that subgrantees support the development and use of a skilled workforce capable of carrying out BEAD-related work safely and effectively, BroadbandOhio will require all subgrantees to participate in the Broadband and 5G Sector Partnership, a key component of the “Strengthening Ohio’s Broadband and 5G Workforce Strategy.” This requirement will be part of the conditions for the subgrantee’s certification of BEAD project completion. Subgrantees must fulfill this requirement to receive their final reimbursement of BEAD funds upon project completion.

Subgrantees will additionally be scored by their binding commitment to hire from qualified apprenticeship programs, including those directly from the Strategy, where each percentage point as share of the project’s workforce will be awarded a point. This scoring approach is intended to further incentivize subgrantees to leverage the

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<sup>60</sup> [“Strengthening Ohio’s Broadband & 5G Workforce,”](#) BroadbandOhio.

<sup>61</sup> [“Strengthening Ohio’s Broadband & 5G Workforce,”](#) BroadbandOhio.

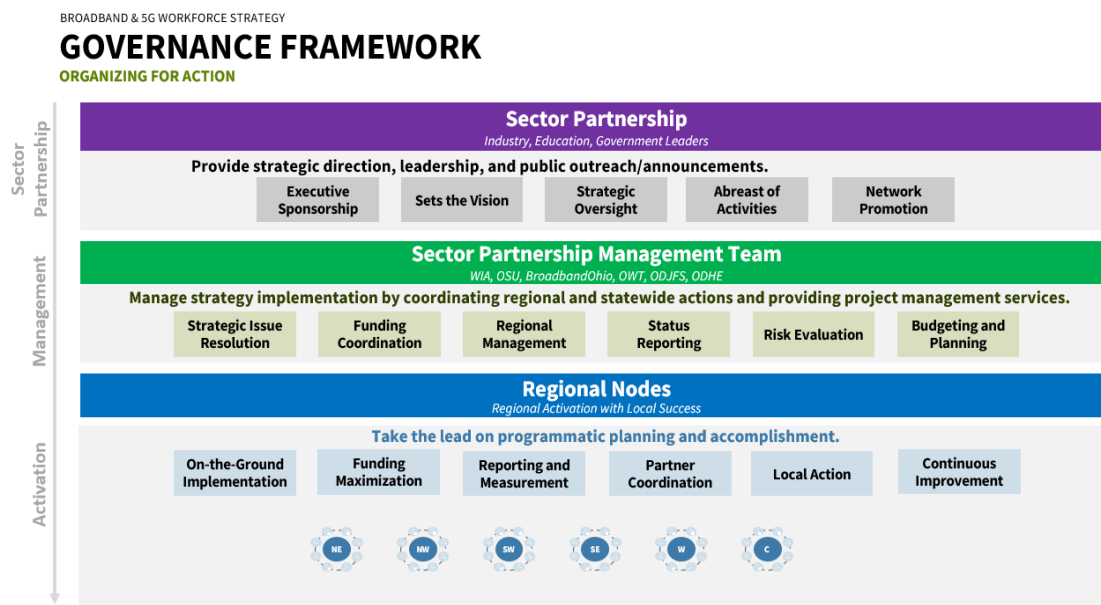
Workforce Strategy and its effort toward providing an appropriately skilled and credentialed workforce.

- b. **Participation in partnerships:** Description of how BroadbandOhio will develop and promote sector-based partnerships among employers, education and training providers, the public workforce system, unions and worker organizations, and community-based organizations that provide relevant training (including through Registered Apprenticeships and pre-apprenticeships that are integrated with Registered Apprenticeships, or other quality work-based learning programs) and provide wrap-around services to support workers to access and complete training (such as child care, transportation, mentorship, etc.), to attract, train, retain, or transition to meet local workforce needs and increase high-quality job opportunities

Through the “Strengthening Ohio’s Broadband and 5G Workforce Strategy,” BroadbandOhio has formed sector-based partnerships to provide relevant training and wrap-around services and to attract and develop the needed workforce for the BEAD program.

Specifically, the Strategy has developed **three key partnerships** that form the Strategy’s governance structure: (i) the Broadband and 5G Sector Partnership (“Sector Partnership”), (ii) the Sector Partnership Management Team, and (iii) six regional hubs (“nodes”). Additionally, the Strategy supports **partnerships with industry players** to develop and expand training programs that equip the workforce with relevant skills via pre-apprenticeship and apprenticeship programs.

## Exhibit 3: Governance framework for “Strengthening Ohio’s Broadband and 5G Workforce Strategy”



- Sector Partnership: The Sector Partnership serves as a central convening entity for implementing the statewide strategy to produce the right talent, at the right capacity, at the right time.<sup>62</sup> As the lead governing entity of the Strategy, the Sector Partnership is responsible for leadership, strategic direction, industry and education feedback, and public outreach and communication. The Sector Partnership comprises industry, education, and government leaders who provide oversight and feedback for the implementation of the goals outlined in the Strategy. Current participants include:
  - Industry: Fiber Broadband Association (FBA), Horizon, NATE: The Communications Infrastructure Contractors Association, NTCA – The Rural Broadband Association, Ohio Cable Telecom Association (OCTA), Ohio Telecom Association (OTA), Ohio Wireless Association (OWA), Power &

<sup>62</sup> [“Strengthening Ohio’s Broadband and 5G Workforce Strategy.”](#) page 7.



Communication Contractors Association (PCCA), Team Fishel, TRC Companies, Inc., and USTelecom.<sup>63</sup>

- Education: Association of Independent Colleges and Universities of Ohio (AICUO), Foundation for Excellence in Education (ExcelinEd), Inter-University Council (IUC), Ohio ACTE, Ohio Association of Career Technical Superintendents (OACTS), Ohio Association of Community Colleges (OACC), Ohio Excels, and The Management Council (MCOECN).<sup>64</sup>
- Government: BroadbandOhio, Governor’s Office of Workforce Transformation (OWT), JobsOhio, Ohio Department of Education (ODE), Ohio Department of Higher Education (ODHE), Ohio Department of Job and Family Services (ODJFS), Ohio Department of Rehabilitation and Corrections (ODRC), and Ohio Department of Veteran Services (ODVS).<sup>65</sup>
- The Sector Partnership is housed at The Ohio State University (OSU) and is led by the Wireless Infrastructure Association (WIA) as the industry intermediary.<sup>66</sup> OSU administers the Sector Partnership and leads the design and distribution of the curriculum program in cooperation with the Sector Partnership. WIA provides insight into industry needs and the gap in telecommunications skills while also ensuring that the Sector Partnership’s work remains aligned with the telecommunications industry. The Sector Partnership works to design and distribute curricula and training programs across the state and promotes career awareness to supply the industry with a skilled workforce.
- Sector Partnership Management Team: Operating as the second level of governance, the Sector Partnership Management Team oversees the day-to-day execution of implementation efforts by coordinating actions regionally and statewide. It provides project management services as well as fiscal

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<sup>63</sup> [“Sector Partnership,”](#) The Ohio State University

<sup>64</sup> [“Sector Partnership,”](#) The Ohio State University

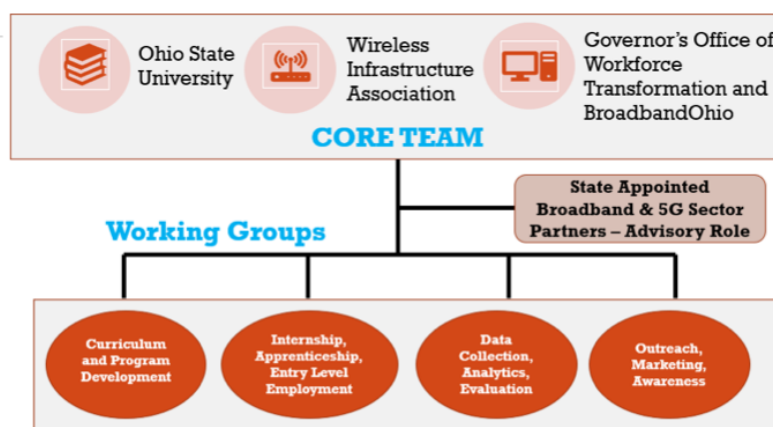
<sup>65</sup> [“Sector Partnership,”](#) The Ohio State University

<sup>66</sup> [“Husted Announces Grant Programs to Support Ohio’s Broadband & 5G Workforce,”](#) January 24, 2023

administration and oversight. The Management Team consists of staff from the Wireless Infrastructure Association, The Ohio State University, BroadbandOhio, the Governor’s Office of Workforce Transformation, the Ohio Department of Job and Family Services, and the Ohio Department of Higher Education. It is further divided into 4 working groups that oversee the completion of specific deliverables approved by the Sector Partnership: (i) Curriculum and Program Development, (ii) Outreach, Marketing and Awareness, (iii) Internship, Apprenticeship, and Entry-Level Employment, and (iv) Data Collection, Analytics, and Evaluation.

**Exhibit 4: Ohio Broadband and 5G Workforce Strategy Working Groups**

## Ohio Broadband and 5G Sector Partnership



The Sector Partnership Management Team plays a pivotal role in the successful implementation of strategies. It eliminates barriers for the activation teams, coordinates and prioritizes various initiatives, and oversees the implementation of regional and statewide strategies. This team is a crucial link between the Sector Partnership and the regional nodes and supports the development of plans to resolve

strategic issues by providing funding and technical assistance and by prioritizing initiatives.

Six regional hubs (“nodes”): Situated at the third level of governance, the regional hubs implement the Strategy’s initiatives on a regional scale. The regional nodes serve as practical executors of initiatives that focus on specific regions. As such, they oversee these initiatives’ daily operational tasks and mobilization efforts. This responsibility includes executing education and training programs, managing recruitment and outreach activities, and providing wrap-around services and comprehensive reports on the risks, dependencies, and overall progress of these initiatives.

The regional-node structure includes four key entities that include education and training providers, the public workforce system, and community-based organizations. These entities oversee and manage each region:

- **Four-year university:** A university in each regional node serves as the fiscal agent for the grant and manages sub-awards, processing, and data collection. The four-year university may also host relevant programs if needed. It assists in setting each project’s vision, goals, deliverables, etc., and ensures that deliverables are completed on time and in budget.
- **Two-year community college:** A two-year community college in each regional hub serves as the “implementation partner” by hosting program(s), identifying partner institutions or training providers to host relevant programs, helping partner institutions to start programs, and assisting in recruitment, enrollment, and completion. Additionally, this entity helps partner institutions to resolve any issues that may arise, such as difficulties in finding qualified instructors or program participants.
- **Local Workforce Development Board:** This entity fulfills technical requirements related to eligibility and data entry. It also assists in recruiting potential workers in the relevant JobsOhio region, connecting them to the right training program, and building relationships with local employers who

can offer entry-level employment to program graduates. Additionally, this entity maximizes braided funding so that Ohioans may undergo training at low or no cost.

- **Community Action Agency:** This agency helps to recruit members of underrepresented groups into relevant training programs and provides wrap-around support and services for individuals entering training programs.
- **Other partners (optional):** Additional partners may be enlisted to provide support and wrap-around services, remove barriers, conduct outreach, and recruit trainees as needed in a region.
- Programmatic partnerships with industry players: Beyond the three partnerships supporting the Strategy’s governance, the Strategy cooperates with industry players in developing and expanding pre-apprenticeship and apprenticeship programs that equip the workforce with relevant skills, such as:
  - Apprenticeship and pre-apprenticeship programs with WIA via TIRAP: As described above, WIA hosts TIRAP as DOL’s contracted industry intermediary. As such, it works with telecommunications companies to expand registered apprenticeships.<sup>67</sup> WIA provides companies with the resources, guidance, and support to improve and formalize their training programs, thereby expediting employers’ adoption of registered apprenticeship and pre-apprenticeship programs and enabling them to offer a national credential through the DOL.
  - WIA has established TIRAP apprenticeships and pre-apprenticeships with employers in Ohio. Ten of these are existing pre-apprenticeship programs in Ohio that have adopted the TIRAP program. The WIA is seeking to increase the number of TIRAP participants as part of the Strategy. Efforts to prepare additional employers for TIRAP apprenticeship programs are underway. Through TIRAP, WIA will expand the broadband industry’s participation in the Strategy’s apprenticeship program.

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<sup>67</sup> <https://www.tirap.org/employers-get-started/>

- c. **Equitable on-ramps into broadband jobs:** Description of how BroadbandOhio will create equitable on-ramps into broadband-related jobs by removing barriers to entry, and by maintaining job quality and worker voice

As part of implementation efforts, the Strategy has established regional hubs to ensure engagement with local stakeholders such as local workforce development boards, community action agencies, and community colleges, as described above.

Additionally, the Strategy includes various workforce recruitment channels that are dedicated to providing equitable access and reducing entry barriers to broadband-related jobs, including:

- Second-Chance hiring program pilot: The Strategy’s Tower Technician Training program is working jointly with OWT and the Ohio Department of Rehabilitation and Correction (ODRC) to engage employer-partners to train soon-to-be-released inmates for jobs in the telecommunications industry. These jobs will be specific to broadband expansion efforts. The Tower Technician Training program is part of Ohio’s Broadband and 5G Workforce Strategy and is provided through OWT and BroadbandOhio in collaboration with NATE: The Communications Infrastructure Contractors Association and ODRC. The program trains Ohioans to fill critically needed tower technician roles and encourages companies across the state to give a second chance to an untapped pool of potential workers: formerly incarcerated Ohioans.<sup>68</sup>
- Through this pilot launched in May 2023, the soon-to-be-released inmates can become members of a skilled workforce that is ready to build, maintain, and repair the broadband and 5G networks that Ohioans use every day. At the end of May, eight individuals from the Mansfield and Richland Correctional Institutions have started to receive tower technician training from North Central State College, followed by a work-release program with an employee partner. The graduates of the program will then have the chance to interview

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<sup>68</sup> [“Governor DeWine, Lt. Governor Husted Announce Opportunities for Second-Chance Employees,”](#) State of Ohio Office of the Governor, May 25, 2023

with employer-partners who can place them in tower technician roles in Ohio upon release. To help close the talent gap and to ensure that Ohio’s 5G network is deployed quickly and efficiently, AT&T is encouraging its contractors in Ohio to hire restored citizens who complete this program.<sup>69</sup>

- Second-Chance hiring guidebook for navigating Master Service Agreements (MSA) in telecommunications: The Strategy includes the development of a guidebook to help telecommunication suppliers to remain in compliance with their MSAs while hiring second-chance employees into the telecommunication industry. Incarcerated individuals often possess the skills and work ethic to meet the demand for workers in the telecommunications industry, and companies that hire restored citizens qualify for federal tax credits and other incentives. However, some telecommunications companies and their suppliers avoid hiring restored citizens due to personnel restrictions in some internet service provider and cellular carrier MSAs. These restrictions prohibit individuals with certain convictions from performing work at telecommunications worksites. The language used in these restrictions is often vague, inconsistent from company to company, and rife with terms not defined in law, making it difficult for suppliers to discern which workers with a criminal history, if any, may be deployed to a given worksite.
- To address vague restrictions listed in MSAs, the Strategy’s guidebook lists specific convictions that legally require the provision of additional details for telecommunication suppliers during their hiring process. The guidebook helps employers to understand and apply these terms in compliance with the language of their contract while also recruiting and hiring restored citizens whose convictions are not barred by the MSA.
- The pilot program’s targeted efforts to recruit and train formerly incarcerated individuals, along with partnerships with industry incumbents to support

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<sup>69</sup> [“Governor DeWine, Lt. Governor Husted Announce Opportunities for Second-Chance Employees,”](#) State of Ohio Office of the Governor, May 25, 2023

second-chance hiring, will lower barriers to entry for covered populations—that is, formerly incarcerated Ohioans—so they may embark on broadband-related careers.

- Involvement of community action agencies in regional nodes: Community action agencies (CAAs) represent one of the four entities within regional nodes. CAAs work to alleviate poverty and empower low-income families in their communities.<sup>70</sup> For over 55 years, CAAs have provided the tools to help people move from poverty to self-sufficiency. They have done so at the local level to ensure that the solutions work for local needs.<sup>71</sup> These agencies serve low-income children, families, and senior citizens using a holistic approach that assists specific families and situations rather than prescribing a one-size-fits-all approach.<sup>72</sup> CAAs provide connections to job training opportunities, GED preparation courses, and vocational education programs, as well as a range of services addressing poverty-related problems. Their services include income management, credit counseling, entrepreneurial development, small business incubators, domestic violence crisis assistance, family development programs, parenting classes, food pantries, and emergency shelters for low-income housing development and community revitalization projects.<sup>73</sup>
- As part of a regional node, CAAs provide recruitment support to enroll under-represented individuals into relevant training programs and provide wrap-around support and services for eligible individuals entering training programs. CAAs’ efforts as part of the Strategy include offering low-income Ohioans access to broadband-related careers, providing wrap-around services, and targeting low-income Ohioans for recruitment, with the aim of facilitating entry into broadband-related jobs via equitable on-ramps.

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<sup>70</sup> [“About Community Action,”](#) Ohio Association of Community Action Agencies.

<sup>71</sup> [“About Community Action,”](#) Ohio Association of Community Action Agencies.

<sup>72</sup> [“About Community Action,”](#) Ohio Association of Community Action Agencies.

<sup>73</sup> [“About Community Action,”](#) Ohio Association of Community Action Agencies.

- Regional nodes’ efforts to enable employment equity in line with QUEST fund requirements: The regional nodes described above are funded through Quality Jobs, Equity, Strategy, and Training (QUEST) funds, which are intended to support employment equity by enhancing the public workforce system’s efforts to empower America’s unemployed and underemployed workers through worker and business engagement, to elevate equity, and to connect jobseekers with high-quality jobs.<sup>74</sup>
- As QUEST projects, regional nodes must prioritize services to individuals whose employment has been negatively impacted by the pandemic, including individuals from historically marginalized populations that have been disproportionately affected. For example:<sup>75</sup>
- The Request for Grant Applications (RFGA) for regional nodes required each selected regional node to recruit, enroll, and provide employment and training services (i.e., career services, training, support services, and work-based learning) to at least 100 QUEST-eligible participants during the project period through September 30, 2024.<sup>76</sup>
- The RFGA requested information from applicants regarding planned activities that will prioritize services and outcomes for historically marginalized populations among QUEST-eligible participants.<sup>77</sup> Specifically, the RFGA

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<sup>74</sup> “Broadband and 5G Regional Node Structure, Request for Grant Applications # JFSR2425158270,” The Ohio Department of Job and Family Services, page 2.

<sup>75</sup> “Broadband and 5G Regional Node Structure, Request for Grant Applications # JFSR2425158270,” The Ohio Department of Job and Family Services, page 2: “Examples of marginalized populations include, but are not limited to, groups excluded due to race, gender identity, sexual orientation, age, physical ability, language, and immigration status. Marginalization occurs due to unequal power relationships between social groups.” Ibid, page 9: “The target population for this grant are: (a) Individuals temporarily or permanently laid off as a consequence of the COVID-19 pandemic disaster; (b) Dislocated workers as defined by the Workforce Innovation and Opportunity Act (WIOA) Section 3(15); (c) Long-term unemployed individuals, as defined by ODJFS; and (d) Self-employed individuals who became unemployed or significantly underemployed due to the COVID-19 pandemic disaster.”

<sup>76</sup> “Broadband and 5G Regional Node Structure, Request for Grant Applications # JFSR2425158270,” The Ohio Department of Job and Family Services, pages 2 and 9.

<sup>77</sup> “Broadband and 5G Regional Node Structure, Request for Grant Applications # JFSR2425158270,” The Ohio Department of Job and Family Services, page 9.



required all applicants to include a narrative for the following, and all applicants were scored based on the quality of the answer for each:

- » Describe the applicant’s plan to increase the attainment of credentials and degrees in Ohio, especially among individuals from historically marginalized communities. The plan should consider the state’s goals to (i) increase attainment of industry-recognized credentials in K-12, and (ii) support adults’ attainment of industry-recognized credentials through programs such as TechCred and the Individual Microcredential Assistance Program (IMAP).
- » Describe how the applicant plans to ensure that consistent cohorts run at education/training programs started in the region; how the applicant plans to provide wrap-around services to support QUEST-eligible participants, individuals negatively impacted by the COVID-19 pandemic, and individuals from historically marginalized populations as they work to complete education/training programs; and how the applicant will provide support services to individuals who have completed the program as they seek employment with telecommunications employers.<sup>78</sup>

These efforts by regional nodes will help historically marginalized, covered populations to establish broadband-related careers via multiple on-ramp efforts that reduce barriers to entry, including targeted recruiting to raise awareness and wrap-around services.

- d. **Job availability to diverse worker pool:** Description of how BroadbandOhio will ensure job opportunities created by broadband funding programs are available to a diverse pool of workers

Through the efforts described above, which aim to strengthen equitable employment opportunities and to lower barriers to entry into broadband-related jobs, BroadbandOhio and OWT will reach and develop a diverse pool of workers through

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<sup>78</sup> “Broadband and 5G Regional Node Structure, Request for Grant Applications # JFSR2425158270,” The Ohio Department of Job and Family Services, pages 10 and Attachment C (Technical Proposal Score Sheet).

the Strategy, particularly via its Second-Chance Employee projects, the involvement of community action agencies in regional nodes, and regional nodes' efforts in conjunction with QUEST requirements. The Strategy's data-tracking methods for monitoring the status of Strategy implementation will provide ongoing visibility into Strategy projects' effectiveness in providing economic opportunities to historically marginalized, covered populations.

- Second-Chance hiring program pilot: The Strategy's Tower Technician Training program is working jointly with OWT and the Ohio Department of Rehabilitation and Correction (ODRC) to engage employer-partners in training soon-to-be-released inmates for telecommunications jobs that are specific to broadband expansion efforts. The Tower Technician Training program is part of Ohio's Broadband and 5G Workforce Strategy, which is implemented through OWT and BroadbandOhio in collaboration with NATE: The Communications Infrastructure Contractors Association and ODRC. This program trains Ohioans to fill critically needed tower technician roles and encourages companies across the state to tap into this pool of potential workers—thus giving a second chance to formerly incarcerated Ohioans.<sup>79</sup>
- Through this pilot launched in May 2023, the soon-to-be-released inmates can become members of a skilled workforce that is ready to build, maintain, and repair the broadband and 5G networks that Ohioans use every day. At the end of May, eight individuals from the Mansfield and Richland Correctional Institutions have started to receive tower technician training from North Central State College, followed by a work-release program with an employer-partner. The graduates of the program will then have the chance to interview with employer-partners who can place them in tower technician roles in Ohio upon release. To help close the talent gap and ensure that Ohio's 5G network

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<sup>79</sup> ["Governor DeWine, Lt. Governor Husted Announce Opportunities for Second-Chance Employees,"](#) State of Ohio Office of the Governor, May 25, 2023

is deployed quickly and efficiently, AT&T is encouraging its contractors in Ohio to hire restored citizens who complete this program.<sup>80</sup>

- The pilot program’s targeted efforts to recruit and train formerly incarcerated individuals will help to diversify the BEAD project workforce and provide economic opportunities for covered populations, in line with BEAD objectives.
- Second-Chance hiring guidebook for navigating telecommunications Master Service Agreements (MSA): The Strategy includes the development of a guidebook to help telecommunication suppliers to remain in compliance with their MSAs while hiring second-chance employees into the telecommunication industry. Incarcerated individuals often possess the skills and work ethic to meet the demand for workers in the telecommunications industry, and companies that hire restored citizens qualify for federal tax credits and other incentives. However, some telecommunications companies and their suppliers avoid hiring restored citizens due to personnel restrictions in some internet service provider and cellular carrier MSAs. These restrictions prohibit individuals with certain convictions from performing work at telecommunications worksites. The language used in these restrictions is often vague, inconsistent from company to company, and rife with terms not defined in law, making it difficult for suppliers to discern which workers with a criminal history, if any, may be deployed to a given worksite.
- To address vague restrictions listed in MSAs, the Strategy’s guidebook lists specific convictions that legally require the provision of additional details for telecommunication suppliers during their hiring process. The guidebook helps employers to understand and apply these terms in compliance with the language of their contract while also recruiting and hiring restored citizens whose convictions are not barred by the MSA.

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<sup>80</sup> [“Governor DeWine, Lt. Governor Husted Announce Opportunities for Second-Chance Employees,”](#) State of Ohio Office of the Governor, May 25, 2023

- The guidebook’s efforts to support the recruitment of formerly incarcerated individuals by directly targeting a barrier to entry (i.e., hiring practices) will help to diversify the BEAD project workforce and provide economic opportunities for covered populations, in line with BEAD objectives.
- Role of community action agencies in regional nodes: Community action agencies (CAAs) represent one of the four entities within regional nodes. CAAs work to alleviate poverty and empower low-income families in their communities.<sup>81</sup> For over 55 years, CAAs have provided the tools to help people move from poverty to self-sufficiency. They have done so at the local level to ensure that the solutions work for local needs.<sup>82</sup> These agencies serve low-income children, families, and senior citizens using a holistic approach that assists specific families and situations rather than prescribing a one-size-fits-all approach.<sup>83</sup> CAAs provide connections to job training opportunities, GED preparation courses, and vocational education programs, as well as a range of services addressing poverty-related problems. Their services include income management, credit counseling, entrepreneurial development, small business incubators, domestic violence crisis assistance, family development programs, parenting classes, food pantries, and emergency shelters for low-income housing development and community revitalization projects.<sup>84</sup>
- As part of a regional node, CAAs provide recruitment support in efforts to enroll under-represented individuals in relevant training programs, as well as wrap-around support and services for eligible individuals who are entering training programs. CAAs’ efforts as part of the Strategy and provision of targeted recruitment and wrap-around support help to enable covered populations (i.e., low-income Ohioans) to embark on broadband-related careers, in line with BEAD objectives.

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<sup>81</sup> [“About Community Action,”](#) Ohio Association of Community Action Agencies.

<sup>82</sup> [“About Community Action,”](#) Ohio Association of Community Action Agencies.

<sup>83</sup> [“About Community Action,”](#) Ohio Association of Community Action Agencies.

<sup>84</sup> [“About Community Action,”](#) Ohio Association of Community Action Agencies.

- Regional node’s efforts to enable employment equity, in line with QUEST fund requirements: The regional nodes described above are funded through Quality Jobs, Equity, Strategy, and Training (QUEST) funds, which are intended to support employment equity by enhancing the public workforce system’s efforts to empower America’s unemployed and underemployed workers through worker and business engagement, to elevate equity, and to connect jobseekers with high-quality jobs.<sup>85</sup>
- As QUEST projects, regional nodes must prioritize services to individuals whose employment has been negatively impacted by the pandemic, including individuals from historically marginalized populations that have been disproportionately affected. For example:<sup>86</sup>
- The Request for Grant Applications (RFGA) for regional nodes required each selected regional node to recruit, enroll, and provide employment and training services (i.e., career services, training, support services, and work-based learning) to at least 100 QUEST-eligible participants during the project period through September 30, 2024.<sup>87</sup>
- The RFGA requested information from applicants regarding planned activities that will prioritize services and outcomes for historically marginalized populations among QUEST-eligible participants.<sup>88</sup> Specifically, the RFGA

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<sup>85</sup> “Broadband and 5G Regional Node Structure, Request for Grant Applications # JFSR2425158270,” The Ohio Department of Job and Family Services, page 2.

<sup>86</sup> “Broadband and 5G Regional Node Structure, Request for Grant Applications # JFSR2425158270,” The Ohio Department of Job and Family Services, page 2: “Examples of marginalized populations include, but are not limited to, groups excluded due to race, gender identity, sexual orientation, age, physical ability, language, and immigration status. Marginalization occurs due to unequal power relationships between social groups.” Ibid, page 9: “The target population for this grant are: (a) Individuals temporarily or permanently laid off as a consequence of the COVID-19 pandemic disaster; (b) Dislocated workers as defined by the Workforce Innovation and Opportunity Act (WIOA) Section 3(15); (c) Long-term unemployed individuals, as defined by ODJFS; and (d) Self-employed individuals who became unemployed or significantly underemployed due to the COVID-19 pandemic disaster.”

<sup>87</sup> “Broadband and 5G Regional Node Structure, Request for Grant Applications # JFSR2425158270,” The Ohio Department of Job and Family Services, pages 2 and 9.

<sup>88</sup> “Broadband and 5G Regional Node Structure, Request for Grant Applications # JFSR2425158270,” The Ohio Department of Job and Family Services, page 9.

required all applicants to include a narrative for the following, and all applicants were scored based on the quality of the answer for each:

- Describe the applicant’s plan to increase the attainment of credentials and degrees in Ohio, especially among individuals from historically marginalized communities. The plan should consider the state’s goals to (i) increase attainment of industry-recognized credentials in K-12, and (ii) support adults’ attainment of industry-recognized credentials through programs such as TechCred and the Individual Microcredential Assistance Program (IMAP).
- Describe how the applicant plans to ensure that consistent cohorts run at education/training programs started in the region; how the applicant plans to provide wrap-around services to support QUEST-eligible participants, individuals negatively impacted by the COVID-19 pandemic, and individuals from historically marginalized populations as they work to complete education/training programs; and how the applicant will provide support services to individuals who have completed the program as they seek employment with telecommunications employers.<sup>89</sup>
- These efforts by regional nodes will help to diversify the BEAD project workforce and broadband workforce in general by offering historically marginalized, covered populations support in accessing broadband-related careers, in line with BEAD objectives.
- Data-tracking and analytics efforts for Strategy implementation status monitoring. The Strategy includes plans to partner with the Ohio Education Research Center (OERC) team at the John Glenn College of Public Affairs to generate quarterly reports. These reports will be shared with the OWT and the Broadband & 5G (BB & 5G) Sector Partnership/Ohio State University (OSU) College of Engineering (COE) 5G-OH Connectivity Center leadership team. This partnership will combine program-level data with available statewide and

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<sup>89</sup> “Broadband and 5G Regional Node Structure, Request for Grant Applications # JFSR2425158270,” The Ohio Department of Job and Family Services, pages 10 and Attachment C (Technical Proposal Score Sheet).

regional labor market research—including surveys, direct employer engagement, and workforce data analytics—to monitor the impact of this initiative on workforce trends. Metrics will be developed to measure any changes in the available talent for critical occupations and the skill sets that are most in-demand among BB & 5G sector employers.

- The quarterly reports, which will be generated for the purposes of improving the program and analyzing overall outcomes, may include the following fields: (i) provider; (ii) program; (iii) credential type; (iv) geography, (v) age group, race, ethnicity, and gender; and (vi) sector. The reports will provide visibility into the impact of the Strategy’s efforts to provide economic opportunities to under-represented communities, including but not limited to aging individuals, persons of color, Indigenous and Native American persons, members of ethnic and religious minorities, women, LGBTQI+ persons, and persons who live in rural areas. This visibility can, in turn, help the Strategy to identify any areas for improvement and to re-focus its efforts on any under-represented population group as needed. This will ensure that the Strategy’s efforts sufficiently support the development of a diverse broadband workforce, and that job opportunities created by BEAD are available to a diverse pool of workers.

**(Req 2.8.2):** Describe the information that will be required of prospective subgrantees to demonstrate a plan for ensuring that the project workforce (including contractors and subcontractors) will be an appropriately skilled and credentialed workforce. These plans should include the following:

- a. The ways in which the prospective subgrantee will ensure the use of an appropriately skilled workforce, e.g., through Registered Apprenticeships or other joint labor-management training programs that serve all workers;

- b. The steps that will be taken to ensure that all members of the project workforce will have appropriate credentials, e.g., appropriate and relevant pre-existing occupational training, certification, and licensure;
- c. Whether the workforce is unionized;
- d. Whether the workforce will be directly employed or whether work will be performed by a subcontracted workforce; and
- e. The entities that the proposed subgrantee plans to contract and subcontract with in carrying out the proposed work.

If the project workforce or any subgrantee's, contractor's, or subcontractor's workforce is not unionized, the subgrantee must also provide with respect to the non-union workforce:

- a. The job titles and size of the workforce (FTE positions, including for contractors and subcontractors) required to carry out the proposed work over the course of the project and the entity that will employ each portion of the workforce;
- b. For each job title required to carry out the proposed work (including contractors and subcontractors), a description of:
  - ii. Safety training, certification, and/or licensure requirements (e.g., OSHA 10, OSHA 30, confined space, traffic control, or other training as relevant depending on title and work), including whether there is a robust in-house training program with established requirements tied to certifications, titles; and
  - iii. Information on the professional certifications and/or in-house training in place to ensure that deployment is done at a high standard.

As part of subgrantee qualification requirements for technical capability, BroadbandOhio plans to require all prospective subgrantees deploying network



facilities to certify that they are technically qualified to complete and operate the project. They must also certify that they are capable of carrying out the funded activities competently, with an appropriately skilled and credentialed workforce.

As part of this qualification requirement, BroadbandOhio plans to require prospective subgrantees to submit, as part of their application, a plan that demonstrates at a minimum the following for the project workforce (including contractors and subcontractors):

- The ways in which the prospective subgrantee will ensure the use of an appropriately skilled workforce—for example, through registered apprenticeships or other joint labor-management training programs that serve all workers (including those offered through the Strategy).
- The steps that will be taken to ensure that all members of the project workforce will have appropriate credentials—such as appropriate and relevant pre-existing occupational training, certification, and licensure (including those offered through the Strategy, as all Strategy-affiliated training programs provide industry-recognized credentials upon completion).
- Whether the workforce is unionized. If the project workforce or any subgrantee’s, contractor’s, or subcontractor’s workforce is not unionized, the following information must be provided with respect to the non-union workforce:
  - The job titles and size of the workforce (FTE positions, including for contractors and subcontractors) required to carry out the proposed work over the course of the project and the entity that will employ each portion of the workforce.
  - For each job title required to carry out the proposed work (including contractors and subcontractors), a description of:
    - » Safety training, certification, and/or licensure requirements (e.g., OSHA 10, OSHA 30, confined space, traffic control, or other training as relevant depending on title and work), including whether there is a robust in-house

training program with established requirements tied to certifications and titles.

- » Information on the professional certifications and/or in-house training in place to ensure that deployment is done at a high standard.
- Whether the workforce will be directly employed or the work will be performed by a subcontracted workforce.
- The entities that the proposed subgrantee plans to contract and subcontract with in carrying out the proposed work.

Prospective subgrantees whose plans do not sufficiently demonstrate all of the above required elements will be deemed as not meeting subgrantee qualification requirements and will not be considered for the subgrantee selection process.

# Minority Business Enterprises (MBEs)/ Women's Business Enterprises (WBEs)/ Labor Surplus Firms Inclusion (Requirement 13)

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(Req 2.9.1) Description of the process, strategy, and the data tracking method(s) BroadbandOhio will implement to ensure that minority businesses, women-owned business enterprises (WBEs), and labor surplus area firms are recruited, used, and retained when possible.

**Strategy.** BroadbandOhio will collaborate with the Minority Business Development Division, which also resides within the Ohio Department of Development and has deep relationships within the broader Ohio minority business community, to execute on the strategic priority of ensuring that minority businesses, women-owned business enterprises (WBEs), and labor surplus area firms are recruited, used, and retained

when possible. The key pillars of the strategy, which are aligned to the affirmative steps define in the process below, include:

1. Driving awareness of the opportunities within the MBE/WBE and Labor surplus firm communities.
2. Ensuring prime contractors are actively encouraged to sub-contract with MBE/WBE and Labor surplus firms and are structuring their contracts to make that possible.
3. Tracking data and outcomes across the process to ensure to strategy is being executed, and that it is impactful.

**Process.** BBOH will conduct the following actions to execute on each of the affirmative steps described below:

**a. Place qualified small enterprises / MBE and WBEs on solicitation lists**

- BroadbandOhio will partner with the Minority Business Development Division to ensure that solicitation lists to which the opportunities for state contracts are published include MBE and WBE businesses. In addition, solicitation lists that target these businesses, such as those maintained by the Minority Business Assistance Centers and the Minority Business Enterprise Program<sup>90</sup> will be utilized. This will include distribution to MBE and WBEs that have acquired the Ohio "Encouraging Diversity, Growth and Equity" (EDGE) certification.<sup>91</sup>
- As part of technical assistance sessions and BroadbandOhio/The Minority Business Development Division will host technical assistance sessions for potential subgrantees. During these sessions, qualifying stakeholders will have the opportunity to register to be on the solicitation list.

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<sup>90</sup> <https://development.ohio.gov/business/minority-business/certifications/minority-business-enterprise-program>

<sup>91</sup> <https://development.ohio.gov/business/minority-business/certifications/encouraging-diversity-growth-and-equity-program>

- b. **Assure that small and minority businesses, and women’s business enterprises are solicited whenever they are potential sources.**
- As described above, MBE, WBE and Labor surplus firms will receive solicitations through the solicitation lists on which BroadbandOhio will share information regarding the upcoming BEAD grant rounds.
  - In addition, in partnership with the Minority Business Development Division, BroadbandOhio plans to provide prospective subgrantees with access to directories, which include WBE, MBE and labor surplus firms to enable proactive solicitation of smaller businesses as subcontractors.
  - BroadbandOhio will partner with the Ohio Department of Administrative Services to disseminate information on upcoming BEAD funding opportunities to any business registered for state procurement listed under relevant industries (e.g., as identified by UNSPSC/NAICS codes). This step will allow for qualifying MWBE and labor surplus firms that may not yet be officially registered as Certified EDGE business to be reached.
  - To reach all other WBE, MBE and labor surplus firms, information on BEAD funding opportunities will be posted to the BroadbandOhio website with information regarding how to be included in the solicitation list, in order to promote qualified MWBE and labor surplus firms’ participation in solicitation.
- c. Divide total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women’s business enterprises
- As part of the technical assistance provided to potential subgrantees, BroadbandOhio plans to provide a perspective on best practices to potential subgrantees to enable them, when economically feasible, to create subtasks within their subgrant applications which can be carried out by smaller businesses.

- d. **Establish delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women’s business enterprises**
- As part of the technical assistance provided to potential subgrantees, BroadbandOhio plans to provide a perspective on best practices to potential subgrantees to enable them, when economically feasible, to establish delivery schedules within their subgrant applications which can be carried out by smaller businesses.
- e. **Use the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce**
- In collaboration with the Ohio Minority Business Development Division, BroadbandOhio, will utilize the services and assistance to strengthen and expand outreach and technical assistance the WBE, WBE and Labor surplus firms
  - In addition to BEAD specific opportunities, broader technical assistance is made available to WBEs and MBEs through the Small Business Development Centers of Ohio<sup>92</sup>, including:
    - » Business assessment valuation
    - » Cash flow analysis
    - » Financial projections development
    - » Free one-on-one business counseling
    - » Identifying sources of capital
    - » Inventory control assessment
    - » Market feasibility and research
    - » Marketing strategy development

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<sup>92</sup> <https://development.ohio.gov/business/small-business-and-entrepreneurship/small-business-development-centers-ohio>

- » Strategic business planning
  - » Workshops and training programs
- f. **Require subgrantees to take the affirmative steps listed above as it relates to subcontractors.** BroadbandOhio will require all subgrantees to take above affirmative steps regarding their subcontractors, and will take the following steps to support compliance:
- Leverage technical assistance sessions to ensure prospective subgrantees are aware of these requirements, and best practice approaches to implement the above affirmative steps
  - The subgrantee award agreement will include a clause specifying compliance with the affirmative steps for inclusion of MBE / WBE and Labor surplus firms.

**Data tracking.** Regarding solicitations, BroadbandOhio will work with the Minority Business Development Division track the number of MBEs, WBEs and Labor surplus firms that are on the solicitation lists to which information and solicitation are sent; and the number of solicitations that are sent to each list. Regarding contracting, BroadbandOhio will track the number of MBE and WBE firms that are awarded subcontracts directly from the state. Further, as part of quarterly reporting, Ohio will require subgrantees to report Tier 2 spend, recipients, and denote which subcontractors and spend are with MBEs or WBEs firms.

(Req 2.9.2) [Check box] BroadbandOhio certifies that it will take all necessary affirmative steps to ensure minority businesses, women’s business enterprises, and labor surplus area firms are used when possible, including the following outlined on pages 88 – 89 of the BEAD NOFO:

- a. Placing qualified small and minority businesses and women’s business enterprises on solicitation lists;
- b. Assuring that small and minority businesses, and women’s business enterprises are solicited whenever they are potential sources;
- c. Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women’s business enterprises;
- d. Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women’s business enterprises;
- e. Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce; and
- f. Requiring subgrantees to take the affirmative steps listed above as it relates to subcontractors.



# Cost and Barrier Reduction (Requirement 14)

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(Req 2.10.1) Steps that Ohio has taken or will take to reduce costs and barriers to deployment, include:

- a. (Non-BEAD) Investments to reduce deployment costs
- b. Promoting the use of existing infrastructure
- c. Streamlining permitting processes
- d. Streamlining cost-effective access to poles, conduits, easements
- e. Streamlining rights of way, including the imposition of reasonable access requirements.

BroadbandOhio is taking multiple steps to reduce costs and barriers to deployment across multiple fronts:

## **(Non-BEAD) Investments to reduce deployment costs**

**Acquisition and deployment of funds to expand middle mile access:** In 2022, Ohio supported submissions for middle mile funding:

- a. Midwest Regional Collaboration – Appalachia (MRC-A) plans to leverage ARISE grants to build a large-scale, multi-state middle-mile network in Appalachia

- b. Western Ohio Infrastructure Upgrade Pilot: Leveraging ARPA Capital Project Funds, this project will result in an RFP to improve middle-mile infrastructure in the north and western part of Ohio (100GB), which is required to accommodate additional bandwidth needs in the area.

**Funds for line extension subsidies.** Multiple Ohio residents in deeply rural areas have been asked to pay thousands of dollars to bring service from the road, down long driveways or paths to their homes. BroadbandOhio has proposed the use of ARPA Capital Project Funds for subsidizing line extensions, to reduce this barrier to broadband access that many residents face.

### Promoting the use of existing infrastructure

Ohio has significant assets available to support broadband deployment, including the state's Multi-Agency Radio Communication System (MARCS) towers. BroadbandOhio has planned, implemented, and administered pilot MARCS towers projects, which lets ISPs broadcast via the publicly owned Multi-Agency Radio Communications System, expanding their reach into unserved areas. For instance, BroadbandOhio ran a pilot project with the Southeast Ohio Broadband Cooperative that will provide high-speed internet to hundreds of previously unserved homes, including allowing 130 households to maintain coverage after a local ISP stopped providing internet service to the area.<sup>93</sup> Ohio is planning additional pilot MARCS tower projects in other counties.

Ohio is additionally exploring multiple means to standardize asset re-use. Ohio may also create a standard pricing list for using MARCS towers to encourage ISPs to leverage this state asset for broadband deployment.

Another asset BroadbandOhio plans to invest in to improve is school district infrastructure. BroadbandOhio intends to continue the BroadbandOhio Connectivity Grant project (shovel-ready school district project) from 2020 so that school districts can apply for money to fund school district-led projects that bring expanded

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<sup>93</sup> [Washington County/MARCS Tower Pilot Project](#), BroadbandOhio

connectivity where students and families have had very little broadband access. This project will be similar to the East Cleveland and Riverside buildouts that brought internet services to surrounding communities. The goal is to enable school districts to become “shovel-ready” to operate expanded broadband services autonomously after grant funding has been spent. This project would bring connectivity to a set of counties that have been unserved for several reasons, including a lack of funding for substantial broadband expansion at the school district level. With funding provided by the Coronavirus Capital Projects Fund (CPF), approximately 50 additional school districts could be connected at \$200,000 per project.

### Streamlining permitting processes

Ohio is currently employing the following mitigation approaches:

- a. Process streamlining: Led by Lt. Governor Husted, Ohio’s Common Sense Initiative (CSI) reviews business-impacting rules, helps businesses navigate regulatory obstacles, and leads initiatives to improve Ohio’s regulatory climate. The Common Sense Initiative has reviewed over 10,000 agency regulations to date and amended inefficient ones.<sup>94</sup>

### Streamlining cost-effective access to poles, conduits, easements

- **Pole Replacement and Undergrounding Program:** Ohio established the Ohio broadband pole replacement and undergrounding program within the Department of Development to advance the provision of qualifying broadband service access to residences and businesses in an unserved area by reimbursing certain costs of pole replacements, mid-span pole installations, and undergrounding.<sup>95</sup>
- Providers may apply for reimbursement under the Ohio Broadband Pole Replacement and Undergrounding program if the provider has paid for any of

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<sup>94</sup> <https://Governor.ohio.gov/priorities/common-sense-initiative>

<sup>95</sup> Ohio House Bill 33, Sec. 191.02

the following costs in association with the deployment of broadband infrastructure:

- Pole replacement costs
- Mid-span pole replacement costs
- Undergrounding costs

### Streamlining rights of way, including the imposition of reasonable access requirements

Ohio is currently employing the following mitigation approaches:

- **Municipal Right-of-Way:** Ohio Revised Code Section 4939 establishes terms of use for public rights-of-way, defines and lays guardrails for the authority of municipal corporations, and defines standard turnaround times for municipal responses for public ways.<sup>96</sup>
- **Ohio Department of Transportation (ODOT) Right-of-Way:** ODOT has implemented a streamlined E-Permitting system for right-of-way and utility permits.<sup>97</sup>

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<sup>96</sup> <https://codes.ohio.gov/ohio-revised-code/chapter-4939>

<sup>97</sup> <https://www.transportation.ohio.gov/working/permits/row-utility/row-utility>

# Climate Assessment (Requirement 15)

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(Req 2.11.1) Description of BroadbandOhio’s assessment of climate threats and proposed mitigation methods, including:

- Identify the geographic areas that should be subject to an initial hazard screening for current and projected future weather and climate-related risks and the time scales for performing such screenings;
- Characterize which projected weather and climate hazards may be most important to account for and respond to in these areas and over the relevant time horizons;
- Characterize any weather and climate risks to new infrastructure deployed using BEAD Program funds for the 20 years following deployment;
- Identify how the proposed plan will avoid and/or mitigate weather and climate risks identified; and
- Describe plans for periodically repeating this process over the life of the Program to ensure that evolving risks are understood, characterized, and addressed, and that the most up-to-date tools and information resources are utilized

By leveraging sources provided in the NTIA BEAD NOFO, BroadbandOhio has identified the geographic areas that should be subject to an initial hazard screening for current and projected future weather and climate-related risks; weather and

climate risks as most important to account for in Ohio, (see Table 4); and the potential time scales for performing such screenings.

Table 17: Geographic areas that should be subject to hazard screening, per county

County (alphabetical order)	Projected weather and climate hazards that may be most important to account for
– Adams	– Landslide: High landslide incidence per the State of Ohio 2019 Hazard Mitigation Plan <sup>98</sup>
– Ashland	– Winter Storm: Very High Risk per FEMA NRI <sup>99</sup>
– Ashtabula	<ul style="list-style-type: none"> <li>– Winter Storm: Relatively High Risk per FEMA NRI;<sup>100</sup> Greater than 60 inches of snowfall on average annually per the State of Ohio 2019 Hazard Mitigation Plan<sup>101</sup></li> <li>– Seiche/Coastal Flooding: Listed as 1 of 8 counties impacted by Coastal Flooding and Seiche Waves per the State of Ohio 2019 Hazard Mitigation Plan<sup>102</sup></li> <li>– Earthquakes: Historical epicenter with earthquakes of magnitude greater than 2.0 having occurred since 1776, per the State of Ohio 2019 Hazard Mitigation Plan<sup>103</sup></li> <li>– Coastal Erosion: County with highest erosion of feet/year per the State of Ohio 2019 Hazard Mitigation Plan<sup>104</sup></li> </ul>
– Athens	– Landslide: High landslide incidence per the State of Ohio 2019 Hazard Mitigation Plan <sup>105</sup>

<sup>98</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Landslides, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>99</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>100</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>101</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Winter Storm, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>102</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Coastal Flooding, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>103</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Earthquakes, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>104</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Coastal Erosion, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>105</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Landslides, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

County (alphabetical order)	Projected weather and climate hazards that may be most important to account for
– Auglaize	– Earthquakes: Historical epicenter with earthquakes of magnitude greater than 2.0 having occurred since 1776, per the State of Ohio 2019 Hazard Mitigation Plan <sup>106</sup>
– Belmont	<ul style="list-style-type: none"> <li>– Riverine Flooding: Among top 12 counties experiencing repetitive flood loss per the State of Ohio 2019 Hazard Mitigation Plan<sup>107</sup></li> <li>– Landslide: High landslide incidence, per the State of Ohio 2019 Hazard Mitigation Plan<sup>108</sup>; Relatively High Risk per FEMA NRI<sup>109</sup></li> </ul>
– Brown	– Landslide: High landslide incidence, per the State of Ohio 2019 Hazard Mitigation Plan <sup>110</sup>
– Butler	<ul style="list-style-type: none"> <li>– Severe Summer Storm: Relatively High Risk Strong Wind, Relatively High Risk Lightning per FEMA NRI<sup>111</sup></li> <li>– Winter Storm: Relatively High Risk per FEMA NRI<sup>112</sup></li> <li>– Tornado: Relatively High Risk per FEMA NRI<sup>113</sup></li> </ul>
– Champaign	– Earthquakes: Historical epicenter with earthquakes of magnitude greater than 2.0 having occurred since 1776, per the State of Ohio 2019 Hazard Mitigation Plan <sup>114</sup>

<sup>106</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Earthquakes, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>107</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Floods, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>108</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Landslides, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>109</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>110</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Landslides, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>111</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>112</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>113</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>114</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Earthquakes, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>



County (alphabetical order)	Projected weather and climate hazards that may be most important to account for
– Clark	– Tornado: Top 10 counties with tornadoes between 1950-2019 per the State of Ohio 2019 Hazard Mitigation Plan <sup>115</sup>
– Clermont	– Landslide: High landslide incidence per the State of Ohio 2019 Hazard Mitigation Plan <sup>116</sup> ; Relatively High Risk per FEMA NRI <sup>117</sup>
– Columbiana	<ul style="list-style-type: none"> <li>– Landslide: High landslide incidence per the State of Ohio 2019 Hazard Mitigation Plan<sup>118</sup></li> <li>– Severe Summer Storm: Relatively High Risk Lightning per FEMA NRI<sup>119</sup></li> </ul>
– Crawford	– Winter Storm: Relatively High Risk per FEMA NRI <sup>120</sup>
– Cuyahoga	<ul style="list-style-type: none"> <li>– Riverine Floods: Top 12 county experiencing repetitive flood loss per the State of Ohio 2019 Hazard Mitigation Plan<sup>121</sup></li> <li>– Tornado: 1 of 3 counties that have sustained more losses than any other region related to deaths and injuries, per the State of Ohio 2019 Hazard Mitigation Plan<sup>122</sup>; Relatively High Risk per FEMA NRI<sup>123</sup></li> <li>– Winter Storm: Very High Risk per FEMA NRI<sup>124</sup></li> </ul>

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<sup>115</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Tornado, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>116</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Landslides, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>117</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>118</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Landslides, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>119</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>120</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>121</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Floods, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>122</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Tornado, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>123</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>124</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

County (alphabetical order)	Projected weather and climate hazards that may be most important to account for
– Darke	– Tornado: Top 10 county with tornadoes between 1950-2019 per the State of Ohio 2019 Hazard Mitigation Plan <sup>125</sup>
– Erie	<ul style="list-style-type: none"> <li>– Riverine Floods: Top 12 county experiencing repetitive flood loss, per the State of Ohio 2019 Hazard Mitigation Plan<sup>126</sup></li> <li>– Winter Storm: Relatively High Risk per FEMA NRI<sup>127</sup></li> <li>– Seiche/Coastal Flooding: Listed as 1 of 8 counties impacted by Coastal Flooding and Seiche Waves per the State of Ohio 2019 Hazard Mitigation Plan<sup>128</sup></li> </ul>
– Franklin	<ul style="list-style-type: none"> <li>– Riverine Floods: Top 12 county experiencing repetitive flood loss, per the State of Ohio 2019 Hazard Mitigation Plan<sup>129</sup>; Relatively High Risk per FEMA NRI<sup>130</sup></li> <li>– Winter Storm: Relatively High Risk per FEMA NRI<sup>131</sup></li> <li>– Drought: Relatively High Heat Wave Risk per FEMA NRI<sup>132</sup></li> <li>– Severe Summer Storms: Relatively High Risk Strong Wind per FEMA NRI, Relatively High Risk Lightning per FEMA NRI, Relatively High Risk Hail per FEMA NRI<sup>133</sup></li> </ul>

<sup>125</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Tornado, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>126</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Floods, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>127</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>128</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Coastal Flooding, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>129</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Floods, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>130</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>131</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>132</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>133</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

County (alphabetical order)	Projected weather and climate hazards that may be most important to account for
<ul style="list-style-type: none"> <li>- Geauga</li> </ul>	<ul style="list-style-type: none"> <li>- Winter Storm: Relatively High Risk per FEMA NRI<sup>134</sup></li> <li>- Earthquakes: Historical epicenter with earthquakes of magnitude greater than 2.0 having occurred since 1776, per the State of Ohio 2019 Hazard Mitigation Plan<sup>135</sup></li> </ul>
<ul style="list-style-type: none"> <li>- Greene</li> </ul>	<ul style="list-style-type: none"> <li>- Tornado: 1 of 3 counties that have sustained more losses than any other region related to deaths and injuries, per the State of Ohio 2019 Hazard Mitigation Plan<sup>136</sup></li> </ul>
<ul style="list-style-type: none"> <li>- Guernsey</li> </ul>	<ul style="list-style-type: none"> <li>- Riverine Floods: Top 12 county experiencing repetitive flood loss, per the State of Ohio 2019 Hazard Mitigation Plan<sup>137</sup></li> </ul>
<ul style="list-style-type: none"> <li>- Hamilton</li> </ul>	<ul style="list-style-type: none"> <li>- Riverine Floods: Top 12 county experiencing repetitive flood loss, per the State of Ohio 2019 Hazard Mitigation Plan<sup>138</sup></li> <li>- Tornado: Very High Risk per FEMA NRI<sup>139</sup></li> <li>- Winter Storm: Relatively High Risk per FEMA NRI<sup>140</sup></li> <li>- Landslide: Relatively High Risk per FEMA NRI<sup>141</sup></li> <li>- Drought: Relatively High Risk Heat Wave per FEMA NRI<sup>142</sup></li> </ul>

<sup>134</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>135</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Earthquakes, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>136</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Tornado, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>137</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Floods, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>138</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Floods, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>139</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>140</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>141</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>142</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

County (alphabetical order)	Projected weather and climate hazards that may be most important to account for
– Hancock	<ul style="list-style-type: none"> <li>– Riverine Floods: Top 12 county experiencing repetitive flood loss, per the State of Ohio 2019 Hazard Mitigation Plan<sup>143</sup></li> <li>– Winter Storm: Relatively High Risk per FEMA NRI<sup>144</sup></li> </ul>
– Harrison	– Landslide: High landslide incidence per the State of Ohio 2019 Hazard Mitigation Plan <sup>145</sup>
– Hocking	– Landslide: High landslide incidence per the State of Ohio 2019 Hazard Mitigation Plan <sup>146</sup>
– Holmes	– Winter Storm: Very High Risk per FEMA NRI <sup>147</sup>
– Huron	– Tornado: Top 10 counties in Ohio with tornadoes between 1950-2019 per the State of Ohio 2019 Hazard Mitigation Plan <sup>148</sup>
– Jefferson	– Landslide: High landslide incidence per the State of Ohio 2019 Hazard Mitigation Plan <sup>149</sup> ; Relatively High Risk per FEMA NRI <sup>150</sup>
– Knox	– Winter Storm: Relatively High Risk per FEMA NRI <sup>151</sup>

<sup>143</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Floods, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>144</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>145</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Landslides, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>146</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Landslides, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>147</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>148</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Tornado, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>149</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Landslides, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>150</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>151</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

County (alphabetical order)	Projected weather and climate hazards that may be most important to account for
<ul style="list-style-type: none"> <li>– Lake</li> </ul>	<ul style="list-style-type: none"> <li>– Riverine Floods: Top 12 county experiencing repetitive flood loss, per the State of Ohio 2019 Hazard Mitigation Plan<sup>152</sup></li> <li>– Winter Storm: Relatively High Risk per FEMA NRI;<sup>153</sup> can see greater than ten feet of snowfall in a given year per the State of Ohio 2019 Hazard Mitigation Plan<sup>154</sup></li> <li>– Seiche/Coastal Flooding: Listed as 1 of 8 counties impacted by Coastal Flooding and Seiche Waves per the State of Ohio 2019 Hazard Mitigation Plan<sup>155</sup></li> <li>– Earthquakes: Historical epicenter with earthquakes of magnitude greater than 2.0 having occurred since 1776, per the State of Ohio 2019 Hazard Mitigation Plan<sup>156</sup></li> <li>– Coastal Erosion: County with the highest erosion of feet/year per 2019 Ohio Hazard Mitigation plan<sup>157</sup></li> </ul>
<ul style="list-style-type: none"> <li>– Lawrence</li> </ul>	<ul style="list-style-type: none"> <li>– Landslide: Very High Risk per FEMA NRI<sup>158</sup></li> </ul>
<ul style="list-style-type: none"> <li>– Logan</li> </ul>	<ul style="list-style-type: none"> <li>– Earthquakes: Historical epicenter with earthquakes of magnitude greater than 2.0 having occurred since 1776, per the State of Ohio 2019 Hazard Mitigation Plan<sup>159</sup></li> </ul>
<ul style="list-style-type: none"> <li>– Lorain</li> </ul>	<ul style="list-style-type: none"> <li>– Tornado: Top 10 county in Ohio with tornadoes between 1950-2019 per the State of Ohio 2019 Hazard Mitigation Plan<sup>160</sup></li> </ul>

<sup>152</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Floods, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>153</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>154</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Winter Storm, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>155</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Coastal Flooding, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>156</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Earthquakes, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>157</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Coastal Erosion, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>158</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>159</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Earthquakes, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>160</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Tornado, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

County (alphabetical order)	Projected weather and climate hazards that may be most important to account for
	<ul style="list-style-type: none"> <li>– Winter Storm: Relatively High Risk per FEMA NRI<sup>161</sup></li> <li>– Seiche/Coastal Flooding: Listed as 1 of 8 counties impacted by Coastal Flooding and Seiche Waves per the State of Ohio 2019 Hazard Mitigation Plan<sup>162</sup></li> </ul>
<ul style="list-style-type: none"> <li>– Lucas</li> </ul>	<ul style="list-style-type: none"> <li>– Riverine Flooding: Top 12 county experiencing repetitive flood loss, per the State of Ohio 2019 Hazard Mitigation Plan<sup>163</sup></li> <li>– Tornado: Relatively High Risk per FEMA NRI,<sup>164</sup> 1 of 3 counties that have sustained more losses than another other region related to deaths and injuries, per the State of Ohio 2019 Hazard Mitigation Plan<sup>165</sup></li> <li>– Winter Storm: Relatively High Risk per FEMA NRI<sup>166</sup></li> <li>– Severe Summer Storms: Relatively High Risk Strong Wind per FEMA NRI</li> </ul>
<ul style="list-style-type: none"> <li>– Mahoning</li> </ul>	<ul style="list-style-type: none"> <li>– Winter Storm: Relatively High Risk per FEMA NRI<sup>167</sup></li> <li>– Landslide: Relatively High Risk per FEMA NRI<sup>168</sup></li> <li>– Severe Summer Storms: Relatively High Risk Lightning per FEMA NRI<sup>169</sup></li> </ul>
<ul style="list-style-type: none"> <li>– Marion</li> </ul>	<ul style="list-style-type: none"> <li>– Winter Storm: Relatively High Risk per FEMA NRI<sup>170</sup></li> </ul>

<sup>161</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>162</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Coastal Flooding, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>163</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Floods, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>164</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>165</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Tornado, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>166</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>167</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>168</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>169</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>170</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

County (alphabetical order)	Projected weather and climate hazards that may be most important to account for
<ul style="list-style-type: none"> <li>– Medina</li> </ul>	<ul style="list-style-type: none"> <li>– Tornado: Top 10 county in Ohio with tornadoes between 1950-2019 per the State of Ohio 2019 Hazard Mitigation Plan<sup>171</sup></li> <li>– Winter Storm: Relatively High Risk per FEMA NRI<sup>172</sup></li> </ul>
<ul style="list-style-type: none"> <li>– Meigs</li> </ul>	<ul style="list-style-type: none"> <li>– Landslide: High landslide incidence per the State of Ohio 2019 Hazard Mitigation Plan<sup>173</sup></li> </ul>
<ul style="list-style-type: none"> <li>– Mercer</li> </ul>	<ul style="list-style-type: none"> <li>– Earthquakes: Historical epicenter with earthquakes of magnitude greater than 2.0 having occurred since 1776, per the State of Ohio 2019 Hazard Mitigation Plan<sup>174</sup></li> </ul>
<ul style="list-style-type: none"> <li>– Miami</li> </ul>	<ul style="list-style-type: none"> <li>– Tornado: Top 10 county in Ohio with tornadoes between 1950-2019 per the State of Ohio 2019 Hazard Mitigation Plan<sup>175</sup></li> </ul>
<ul style="list-style-type: none"> <li>– Monroe</li> </ul>	<ul style="list-style-type: none"> <li>– Landslide: High landslide incidence per the State of Ohio 2019 Hazard Mitigation Plan<sup>176</sup></li> </ul>
<ul style="list-style-type: none"> <li>– Montgomery</li> </ul>	<ul style="list-style-type: none"> <li>– Severe Summer Storms: Relatively High Risk Strong Winds per FEMA NRI; Relatively High Risk Hail per FEMA NRI<sup>177</sup></li> <li>– Winter Storm: Relatively High Risk per FEMA NRI<sup>178</sup></li> </ul>

<sup>171</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Tornado, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>172</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>173</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Landslides, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>174</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Earthquakes, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>175</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Tornado, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>176</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Landslides, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>177</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>178</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

County (alphabetical order)	Projected weather and climate hazards that may be most important to account for
– Morrow	– Winter Storm: Relatively High Risk per FEMA NRI <sup>179</sup>
– Ottawa	<ul style="list-style-type: none"> <li>– Riverine Floods: Top 12 county experiencing repetitive flood loss, per the State of Ohio 2019 Hazard Mitigation Plan<sup>180</sup></li> <li>– Winter Storm: Relatively High Risk per FEMA NRI<sup>181</sup></li> <li>– Seiche/Coastal Flooding: Listed as 1 of 8 counties impacted by Coastal Flooding and Seiche Waves per the State of Ohio 2019 Hazard Mitigation Plan<sup>182</sup></li> <li>– Coastal Erosion: County with the highest erosion of feet/year per 2019 Ohio Hazard Mitigation plan<sup>183</sup></li> </ul>
– Portage	– Winter Storm: Relatively High Risk per FEMA NRI <sup>184</sup>
– Richland	<ul style="list-style-type: none"> <li>– Tornado: Top 10 county in Ohio with tornadoes between 1950-2019 per the State of Ohio 2019 Hazard Mitigation Plan<sup>185</sup></li> <li>– Winter Storm: Very High Risk per FEMA NRI<sup>186</sup></li> </ul>
– Sandusky	– Winter Storm: Relatively High Risk per FEMA NRI <sup>187</sup>

<sup>179</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>180</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Floods, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>181</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>182</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Coastal Flooding, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>183</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Coastal Erosion, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>184</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>185</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Tornado, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>186</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>187</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>



County (alphabetical order)	Projected weather and climate hazards that may be most important to account for
	<ul style="list-style-type: none"> <li>- Seiche/Coastal Flooding: Listed as 1 of 8 counties impacted by Coastal Flooding and Seiche Waves per the State of Ohio 2019 Hazard Mitigation Plan<sup>188</sup></li> </ul>
<ul style="list-style-type: none"> <li>- Seneca</li> </ul>	<ul style="list-style-type: none"> <li>- Winter Storm: Relatively High Risk per FEMA NRI<sup>189</sup></li> </ul>
<ul style="list-style-type: none"> <li>- Shelby</li> </ul>	<ul style="list-style-type: none"> <li>- Earthquakes: Historical epicenter with earthquakes of magnitude greater than 2.0 having occurred since 1776, per the State of Ohio 2019 Hazard Mitigation Plan<sup>190</sup></li> </ul>
<ul style="list-style-type: none"> <li>- Stark</li> </ul>	<ul style="list-style-type: none"> <li>- Winter Storm: Relatively High Risk per FEMA NRI<sup>191</sup></li> <li>- Severe Summer Storms: Relatively High Risk Lightning per FEMA NRI; Relatively High Risk Hail per FEMA NRI<sup>192</sup></li> </ul>
<ul style="list-style-type: none"> <li>- Summit</li> </ul>	<ul style="list-style-type: none"> <li>- Riverine Floods: Top 12 county experiencing repetitive flood loss, per the State of Ohio 2019 Hazard Mitigation Plan<sup>193</sup>; Relatively High Risk Hail per FEMA NRI<sup>194</sup></li> <li>- Winter Storm: Very High Risk per FEMA NRI<sup>195</sup></li> <li>- Severe Summer Storms: Relatively High Risk Hail per FEMA NRI<sup>196</sup></li> </ul>
<ul style="list-style-type: none"> <li>- Trumbull</li> </ul>	<ul style="list-style-type: none"> <li>- Riverine Floods: Relatively High Risk Hail per FEMA NRI<sup>197</sup></li> </ul>

<sup>188</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Coastal Flooding, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>189</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>190</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Earthquakes, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>191</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>192</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>193</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Floods, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>194</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>195</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>196</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>197</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

County (alphabetical order)	Projected weather and climate hazards that may be most important to account for
	<ul style="list-style-type: none"> <li>- Severe Summer Storms: Relatively High Risk Lightning per FEMA NRI<sup>198</sup></li> </ul>
<ul style="list-style-type: none"> <li>- Van Wert</li> </ul>	<ul style="list-style-type: none"> <li>- Tornado: Top 10 county in Ohio with tornadoes between 1950-2019 per the State of Ohio 2019 Hazard Mitigation Plan<sup>199</sup></li> </ul>
<ul style="list-style-type: none"> <li>- Warren</li> </ul>	<ul style="list-style-type: none"> <li>- Winter Storm: Relatively High Risk per FEMA NRI<sup>200</sup></li> </ul>
<ul style="list-style-type: none"> <li>- Washington</li> </ul>	<ul style="list-style-type: none"> <li>- Riverine Floods: Top 12 county experiencing repetitive flood loss per the State of Ohio 2019 Hazard Mitigation Plan<sup>201</sup></li> <li>- Landslide: High landslide incidence per the State of Ohio 2019 Hazard Mitigation Plan<sup>202</sup></li> </ul>
<ul style="list-style-type: none"> <li>- Wayne</li> </ul>	<ul style="list-style-type: none"> <li>- Winter Storm: Very High Risk per FEMA NRI<sup>203</sup></li> </ul>
<ul style="list-style-type: none"> <li>- Wood</li> </ul>	<ul style="list-style-type: none"> <li>- Tornado: Top 10 county in Ohio with tornadoes between 1950-2019 per the State of Ohio 2019 Hazard Mitigation Plan<sup>204</sup></li> </ul>
<ul style="list-style-type: none"> <li>- Wyandot</li> </ul>	<ul style="list-style-type: none"> <li>- Winter Storm: Relatively High Risk per FEMA NRI<sup>205</sup></li> </ul>

<sup>198</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>199</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Tornado, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>200</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>201</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Floods, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>202</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Landslides, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>203</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>204</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Tornado, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>205</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

## Weather and climate hazards most important to account for in Ohio

The following risks have been identified by leveraging the 2018 National Climate Assessment,<sup>206</sup> the NOAA 2022 State Climate Summaries (from the NOAA National Centers for Environmental Information),<sup>207</sup> NOAA’s Disaster and Risk Mapping Tool (U.S. Billion-Dollar Disasters database),<sup>208</sup> the NOAA’s Storms Event Database,<sup>209</sup> FEMA’s National Risk Index (NRI),<sup>210</sup> the State of Ohio 2019 Hazard Mitigation Plan (Ohio’s FEMA-approved Hazard Mitigation Plan),<sup>211</sup> relevant centers of expertise at the state level (e.g., State of Ohio Department of Natural Resources)<sup>212</sup>, and other sources including the States At Risk climate assessment<sup>213</sup>:

- **Riverine flooding:** According to the State of Ohio 2019 Hazard Mitigation Plan, “flooding is the most frequently occurring natural disaster in Ohio and the United States.”<sup>214</sup> According to NOAA National Centers for Environmental Information State Climate Summaries for Ohio, “extreme precipitation is projected to increase, potentially causing more frequent and intense floods.” According to the States at Risk climate assessment, “by 2050 Ohio’s inland flooding threat is projected to increase by more than 25 percent.”<sup>215</sup>
- **Tornado:** According to the State of Ohio 2019 Hazard Mitigation Plan, “Ohio does not rank among the top states for the number of tornado events, it does rank within the top 20 states for fatalities, injuries, and dollar losses, indicating

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<sup>206</sup> 2018 National Climate Assessment, 2018, <https://nca2018.globalchange.gov/chapter/21/>

<sup>207</sup> NOAA National Centers for Environmental Information state Climate Summaries 2022- Ohio, 2022, <https://statesummaries.ncics.org/chapter/oh/>

<sup>208</sup> NOAA’s Disaster and Risk Mapping Tool- the U.S. Billion-Dollar Disasters database, 2015, <https://www.ncei.noaa.gov/access/billions/summary-stats/OH/1980-2023>

<sup>209</sup> NCDC Storm Database, 2023, <https://www.ncdc.noaa.gov/stormevents/>

<sup>210</sup> FEMA National Risk Index, March 2023, <https://hazards.fema.gov/nri/map>

<sup>211</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Floods, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>212</sup> State of Ohio Department of Natural Resources, <https://ohiodnr.gov/discover-and-learn/safety-conservation/geologic-hazards/le-coastal-erosion>

<sup>213</sup> States At Risk Climate Assessment, 2015, [http://assets.statesatrisk.org/summaries/Ohio\\_report.pdf](http://assets.statesatrisk.org/summaries/Ohio_report.pdf)

<sup>214</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Floods, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>215</sup> States at Risk Climate Assessment, 2015, [http://assets.statesatrisk.org/summaries/Ohio\\_report.pdf](http://assets.statesatrisk.org/summaries/Ohio_report.pdf)

that it has a relatively high likelihood for damages resulting from tornadoes”.<sup>216</sup> Historically Greene, Lucas, and Cuyahoga counties have sustained the most losses related to death and injury.<sup>217</sup>

- **Winter Storm:** According to the State of Ohio 2019 Hazard Mitigation Plan, "the state has a 100% chance of seeing snowfall in any given year, and 6.9 days with winter storm events per year." <sup>218</sup> However, the level and severity of snowfall vary greatly by location.<sup>219</sup> The vast majority of Ohio has the same chance of exceeding one to three feet of snow.<sup>220</sup> According to NOAA National Centers for Environmental Information State Climate Summaries for Ohio, the northern portion of the state along the southern shores of Lake Erie receives 60 inches of snow or more annually, and the southern portion of the state receives less than 16 inches annually.<sup>221</sup> According to NOAA U.S. Billion-Dollar Disasters database, winter storms have accounted for 5.6% of total cost of billion-dollar disasters in the state from 1980 to 2023.<sup>222</sup>
- **Landslide:** According to the State of Ohio 2019 Hazard Mitigation Plan, “the areas in southern and eastern Ohio have several conditions that can lead to the occurrence of landslide events” such as heavy rainfall.<sup>223</sup> The Cincinnati

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<sup>216</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Tornado, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>217</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Tornado, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>218</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Winter Storm, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>219</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Winter Storm, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>220</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Winter Storm, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>221</sup> NOAA National Centers for Environmental Information state Climate Summaries 2022- Ohio, 2022, <https://statesummaries.ncics.org/chapter/oh/>

<sup>222</sup> NOAA's Disaster and Risk Mapping Tool- the U.S. Billion-Dollar Disasters database, 2015, <https://www.ncei.noaa.gov/access/billions/summary-stats/OH/1980-2023>

<sup>223</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Landslides, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

metropolitan area has one of the highest per capital costs of landslide damage of any metropolitan area in the United States.<sup>224</sup>

- **Wildfire:** According to the State of Ohio 2019 Hazard Mitigation Plan, "an average of 1000 wildfires burn 6,000 acres of forest and grassland within the Ohio Department of Natural Resources (ODNR) Division of Forestry's Wildfire Protection Area".<sup>225</sup> Wildfires most frequently occur in Southern, Southeastern, and Eastern Ohio.<sup>226</sup>
- **Seiche/Coastal Flooding:** According to the State of Ohio Department of Natural Resources, "based on twelve events over 136 years, there is an 8.82% chance of a storm surge event significant enough to cause coastal flooding happening on any given year".<sup>227</sup> According to the State of Ohio 2019 Hazard Mitigation Plan, "increased rain, lack of ice coverage, wind, and a changing climate will all have an effect on future coastal flooding."<sup>228</sup>
- **Drought:** According to the State of Ohio 2019 Hazard Mitigation Plan, "the State of Ohio is most often affected by agricultural and hydrological types of droughts and is often affected by both simultaneously."<sup>229</sup> The degree of a region's vulnerability depends on the environmental and social characteristics of the region and is measured by the ability to anticipate, cope with, resist, and recover from a drought.<sup>230</sup> According to the NOAA U.S. Billion-Dollar Disasters

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<sup>224</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Landslides, February 2019,

<https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>225</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Wildfire, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>226</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Wildfire, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>227</sup> State of Ohio Department of Natural Resources - Coastal Erosion,

[https://www.ema.ohio.gov/static/mip/links/2019\\_sohmp-Section\\_2.8\\_Seiche\\_Coastal\\_Flooding\\_FINAL.pdf](https://www.ema.ohio.gov/static/mip/links/2019_sohmp-Section_2.8_Seiche_Coastal_Flooding_FINAL.pdf)

<sup>228</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Coastal Flooding, February 2019,

<https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>229</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Drought, February 2019,

<https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>230</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Drought, February 2019,

<https://ema.ohio.gov/mitigation-plan/risk-analysis>

database, droughts have accounted for 21.3% of total cost of billion-dollar disasters in the state from 1980 to 2023.<sup>231</sup>

- **Severe Summer/Spring Storms:** According to the State of Ohio 2019 Hazard Mitigation Plan, "severe summer storms and associated thunderstorm/high winds, lightning, and hail events are common throughout Ohio and reported hundreds of times each year."<sup>232</sup> Based on available documented occurrences, severe summer storms are the most prevalent natural hazard events in Ohio with a 100% chance of occurring any given year.<sup>233</sup> According to the NCDC Storm Database, there have been 453 thunderstorm wind events from January 1, 2008, to December 31, 2017.<sup>234</sup> According to NOAA National Centers for Environmental Information State Climate Summaries for Ohio, a 10% increase is projected in total spring (March–May) precipitation for the middle of the 21st century compared to the late 20th century under a higher emissions pathway.<sup>235</sup>

### **Weather and climate risks to new infrastructure deployed using BEAD program funds, and how the proposed plan will avoid and/or mitigate weather and climate risks.**

Based on a review of the sources provided by NTIA (in the Initial Proposal Guidance, Table 3: Climate Resources and Tools) on climate risks, all the weather and climate hazards cited above as the most important to account for in Ohio pose an ongoing risk to the new infrastructure deployed using BEAD program funds. The impact of each

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<sup>231</sup> NOAA's Disaster and Risk Mapping Tool- the U.S. Billion-Dollar Disasters database, 2015, <https://www.ncei.noaa.gov/access/billions/summary-stats/OH/1980-2023>

<sup>232</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Severe Summer Storm, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>233</sup> State of the State of Ohio 2019 Hazard Mitigation Plan – Severe Summer Storms, February 2019, <https://ema.ohio.gov/mitigation-plan/risk-analysis>

<sup>234</sup> NCDC Storm Database, 2023, <https://www.ncdc.noaa.gov/stormevents/>

<sup>235</sup> NOAA National Centers for Environmental Information state Climate Summaries 2022- Ohio, 2022, <https://statesummaries.ncics.org/chapter/oh/>

weather and climate risk on broadband infrastructure and proposed mitigation strategies are summarized in Table 18 below.

**Table 18: Weather and climate risk to new infrastructure and proposed mitigation plan**

Weather and climate risk	Risk to new infrastructure	Proposed mitigation strategy
<ul style="list-style-type: none"> <li>- Flooding (Riverine and Seiche/ Coastal)</li> </ul>	<ul style="list-style-type: none"> <li>- Could damage buried and underground plant, central office, and CPE</li> </ul>	<ul style="list-style-type: none"> <li>- Selection of a technology platform suitable to the region’s climate risks, reliance on alternative siting of facilities</li> </ul>
<ul style="list-style-type: none"> <li>- Landslide</li> </ul>	<ul style="list-style-type: none"> <li>- Could pose some risk to aerial plant and exposed CPE</li> </ul>	<ul style="list-style-type: none"> <li>- Prompt restoration of service in the event of an outage</li> </ul>
<ul style="list-style-type: none"> <li>- Wildfire</li> </ul>	<ul style="list-style-type: none"> <li>- Could pose some risk to aerial plant and exposed CPE</li> </ul>	<ul style="list-style-type: none"> <li>- Prompt restoration of service in the event of an outage</li> </ul>
<ul style="list-style-type: none"> <li>- Severe Summer/ Spring Storms</li> </ul>	<ul style="list-style-type: none"> <li>- Could pose some risk to aerial plant and exposed CPE</li> </ul>	<ul style="list-style-type: none"> <li>- Use of established plans and processes to deal with extreme weather-related risks</li> <li>- Prompt restoration of service in the event of an outage</li> </ul>
<ul style="list-style-type: none"> <li>- Severe storms – Tornado</li> </ul>	<ul style="list-style-type: none"> <li>- Could damage aerial plant, exposed CPE, and central office equipment</li> </ul>	<ul style="list-style-type: none"> <li>- Use of established plans and processes to deal with extreme weather-related risks</li> <li>-</li> </ul>
<ul style="list-style-type: none"> <li>- Winter storms</li> </ul>	<ul style="list-style-type: none"> <li>- Could pose some risk to aerial plant, buried plant, and exposed CPE</li> </ul>	<ul style="list-style-type: none"> <li>- Use of established plans and processes to deal with extreme weather-related risks</li> <li>- Prompt restoration of service in the event of an outage</li> </ul>

# Low-Cost Broadband Service Option (Requirement 16)

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(Req 2.12.1) Description of the low-cost broadband service option that must be offered by subgrantees as selected by Ohio, including why the outlined option best services the needs of Ohio residents. The definition of the low-cost broadband service option below addresses the following topics (which are outlined on page 67 of the BEAD NOFO):

- All recurring charges to the subscriber, as well as any non-recurring costs or fees to the subscriber (e.g., service initiation costs)
- The plan’s basic service characteristics (download and upload speeds, latency, any limits on usage or availability, and any material network management practices)
- Whether a subscriber may use any Affordable Connectivity Benefit subsidy toward the plan’s rate
- Any provisions regarding the subscriber’s ability to upgrade to any new low-cost service plans offering more advantageous technical specifications.

## Description of low-cost broadband service option



BroadbandOhio adopts the definition of low-cost broadband service option as provided by the BEAD NOFO, defined as follows:

**Cost:** In year 1, costs \$30 per month or less, inclusive of all taxes, fees, and charges, with no additional non-recurring costs or fees to the consumer; The price of the low-cost service option can be adjusted annually with the consumer price index.

**Applicability of the Affordable Connectivity Benefit:** Allows the end user to apply the Affordable Connectivity Benefit subsidy to the service price.

**Basic service characteristics:**

- a. Download and upload speeds: Provides the greater of:
  - (i) typical download speeds of at least 100 Mbps and typical upload speeds of at least 20 Mbps, or the fastest speeds the infrastructure is capable of if less than 100 Mbps/20 Mbps, or
  - (ii) 25 / 3 Mbps, which is the Federal Communications Commission (FCC)'s current performance benchmark for fixed terrestrial broadband service<sup>236</sup>
- b. Latency: Provides typical latency measurements of no more than 100 milliseconds
- c. Limits on usage or availability: Is not subject to data caps, surcharges, or usage-based throttling, and is subject only to the same acceptable use policies to which subscribers to all other broadband internet access service plans offered to home subscribers by the participating subgrantee must adhere. **Note that the data caps requirement described above is applicable only to the Low-Cost Broadband Service Option. Separately from the Low-Cost Broadband Service Option, subgrantees must provide at least one 100/20 Mbps service plan without data caps.**

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<sup>236</sup> 47 U.S.C. § 1302(b). The current performance benchmark for fixed terrestrial broadband service is 25 Mbps for downloads and 3 Mbps for uploads.

d. Duration.

Service providers that accept BEAD funds will be required to offer the low-cost service option at \$30 per month in their entire statewide service territory for the first 4 years beyond the completion of the build. For the remaining 6 years, providers will be able to offer their low-cost service option up to a range that will use the \$30 monthly cost as the baseline floor and the FCC Urban Rate Survey (URS) as the ceiling. However, in the potential situation where a new, industry-standard data set becomes available, and it is lower than the URS, BroadbandOhio reserves the right to modify the ceiling to adopt that new, lower ceiling.

BBOH will presumptively approve any increase to a plan that is within the range. It is important to note that the CPI additur will be triggered on July 1st of every year, starting 2025.

For providers that are awarded more than one application,

- Households in the subrecipient's service territory can subscribe to the low-cost service option when the first ORBEG-BEAD subscriber across any of the provider's awarded applications begins service
- The subrecipient's four-year requirements to offer the low-cost service option at \$30 will begin the date the first subscriber in the last project area begins service. This will ensure that all regions covered by BEAD have access to the low-cost service option for a full four years, regardless of when construction begins.

**Provisions regarding the subscriber's ability to upgrade to any new low-cost service plans offering more advantageous technical specifications:** In the event the provider

later offers a low-cost plan with higher speeds downstream and/or upstream, permits Eligible Subscribers that are subscribed to a low-cost broadband service option to upgrade to the new low-cost offering at no cost.

Ohio plans to require these plans be offered beyond the potential discontinuation of the ACP program. Ohio additionally intends to require subgrantees to provide ACP-eligible plans to all Ohio locations that the subgrantees serve beyond awarded BEAD locations, as part of their award agreements.

### **How the defined low-cost broadband service option best services the needs of Ohio residents**

An ACP-eligible, low-cost plan is expected to best service the needs of Ohio residents considering the demonstrated demand in Ohio for ACP-eligible low-cost plans. Ohio has one of the highest ACP enrollment rates in the country. As of August 2023, the estimated enrollment rate among 1,984,218 eligible Ohioan households is 50% (compared to a national 37%).<sup>237</sup> The all-inclusive cost of \$30 per month defined above for the low-cost broadband service option, and required ACP participation by subgrantees, will make available an ACP-eligible, low-cost plan that would be provided to qualifying Ohioans at no cost to them. The requirement that these plans be offered beyond the potential discontinuation of the ACP program will ensure the availability of a low-cost broadband service option regardless of the existence of the ACP subsidy, which will be critical to a substantial share of Ohioans as demonstrated by the high ACP enrollment above.

### **Eligibility and Verification should ACP not be renewed.**

In the event that ACP is not renewed, the Broadband Expansion Program Authority will make a determination as to who is eligible for the low-cost option in Ohio and the low-cost option will apply to those residents. BroadbandOhio and Department of

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<sup>237</sup> ["Affordable Connectivity Program Enrollment Dashboard."](#) EducationSuperHighway, accessed August 16, 2023.

Development will work to ensure there is a mechanism to verify eligibility. The cost of the low-cost option of \$30 will remain the same in the event that ACP is not renewed.

(Req 2.12.2) All subgrantees will be required to participate in the Affordable Connectivity Program or any successor program.

# Use of 20 Percent of Funding (Requirement 17)

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(Req 2.14.1) Describe the Eligible Entity's planned use of any funds being requested, which must address the following:

- a. If the Eligible Entity does not wish to request funds during the Initial Proposal round, it must indicate no funding requested and provide the rationale for not requesting funds.
- b. If the Eligible Entity is requesting less than or equal to 20 percent of funding allocation during the Initial Proposal round, it must detail the amount of funding requested for use upon approval of the Initial Proposal, the intended use of funds, and how the proposed use of funds achieves the statutory objective of serving all unserved / underserved locations.
- c. If the Eligible Entity is requesting more than 20 percent (up to 100 percent) of funding allocation during the Initial Proposal round, it must detail the amount of funding requested for use upon approval of the Initial Proposal, the intended use of funds, how the proposed use of funds achieves the statutory objective of serving all unserved / underserved locations, and provide rationale for requesting funds greater than 20 percent of the funding allocation.

BroadbandOhio requests 100 percent of funding allocation during the Initial Proposal round. Below includes the amount of funding requested for use upon approval of the

Initial Proposal, the intended use of funds, and how the proposed use of funds achieves the statutory objective of serving all unserved / underserved locations.

**Amount of funding.** BroadbandOhio requests 100% of funding allocation during the Initial Proposal round (\$793,688,107.63).

## Intended use of funds

BroadbandOhio is requesting an allocation of 100% to eliminate the digital divide by 2029. BroadbandOhio intends to use BEAD funding on programmatic and administrative costs, toward workforce development initiatives, and enablement of execution of the challenge and subgrantee selection processes and overall administration during implementation. BroadbandOhio will ensure that programmatic and administrative funds are applied appropriately.

Percentages for each proposed use of funds is shown below:

<u>Category</u>	<u>Percentage</u>
Personnel	0.30%
Travel	0.27%
Equipment	0
Supplies	0.27%
Contractual/Subawards	97.36%
Construction	0
Other Direct Costs	1.80%

## Programmatic costs

**Deployment cost.** Accounting for enforceable commitments such as CAFII, USDA, RDOF, and ORBEG, Ohio has approximately 123,000 unserved and 85,000 underserved BSLs without an enforceable commitment. With proposed DSL technology modifications as described in Initial Proposal Volume I, there are approximately 123,000 unserved and 88,000 underserved BSLs in Ohio.

Business case figures in NTIA-provided Costquest data estimate approximately \$585 million will be required to bring the 20-year NPV figures to be at or above \$0, if assuming greenfield FTTH build to reach all unserved and underserved BSLs in Ohio as described above.

**Workforce readiness initiative.** The Governor’s Office of Workforce Transformation (OWT) developed Ohio’s Broadband & 5G Workforce Strategy (“Strategy”) in partnership with BroadbandOhio to address the projected workforce shortage for deploying broadband and 5G technology in the state of Ohio. The Strategy contains three key elements: (1) increasing career awareness in the telecommunications industry, (2) deploying and scaling education and training programs to meet the workforce demand, and (3) capitalizing on state and federal funding to finance the strategy to allow Ohioans to go through relevant education and training programs at low- or no-cost.

The Strategy was announced in September 2021. As part of the Strategy, Ohio created the Ohio Broadband & 5G Sector Partnership (“Sector Partnership”) to manage implementation, which is housed at the Ohio State University (“OSU”) and is industry-led by the Wireless Infrastructure Association (“WIA”). To date, Ohio has launched 11 education and training programs, with more currently in development. These programs have included 5 Certified Fiber Optic Technician programs, 2 5G Readiness programs, 3 Tower Technician programs, and a Broadband Infrastructure Training

Program. Additionally, in the summer of 2023, six regional nodes have been launched in each JobsOhio region to lead the regional implementation of the Strategy.<sup>238</sup>

Across all 11 programs, over 400 Ohioans (including active participants) have enrolled, and over 250 students have completed their training to date and have passed their third-party certification exam.

Over the five-year span of BEAD funding to deploy broadband in Ohio, OWT and BroadbandOhio propose leveraging \$50M in funding to develop the required workforce for broadband expansion. This funding will be used to:

1. Sustain the Sector Partnership through 2028.
2. Sustain the six regional nodes that have been selected for each JobsOhio region through 2028.
3. Fund education and workforce initiatives across Ohio, including:
4. Career awareness and internships for K12 and postsecondary students;
5. New programs at career centers, community colleges, and universities;
6. Develop additional certificate programs at career centers and Ohio Technical Centers;
7. Develop an associate degree for community college;
8. Develop a major and minor at universities;
9. Expand pre-apprenticeship and apprenticeship programs;
10. Provide last-dollar tuition assistance so programs remain low- or no-cost;
11. Support instructor and faculty recruitment/retention so programs can run consistent cohorts;

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<sup>238</sup> [https://www.ohiosap.org/aws/OSAE/pt/sd/news\\_article/523779/\\_blank/layout\\_details/false](https://www.ohiosap.org/aws/OSAE/pt/sd/news_article/523779/_blank/layout_details/false)



12. Fund dedicated career services so program graduates seamlessly transition to employment; and
13. Fund marketing and awareness initiatives to drive enrollment in education/training programs.

**Rationale.** BroadbandOhio understands that, in order to reach BEAD objectives of universal service, the existence of a skilled workforce of sufficient size to support BEAD deployment projects is a necessary condition. BroadbandOhio believes upfront efforts toward developing a skilled, available broadband workforce within Ohio will not only help ensure a successful delivery of BEAD projects but also help lower barriers for providers from participating in BEAD by preempting workforce-related roadblocks. BroadbandOhio anticipates these measures to help ensure greater participation and interest by providers, raise competition for BEAD funds, and thereby help ensure higher-quality bids – all of which BroadbandOhio believes will contribute to a more efficient BEAD fund outlay.

Specific rationale for why workforce availability has been identified as a potential roadblock for provider participation, and why BroadbandOhio believes direct implementation of this effort is critical, is outlined below:

**Currently emerging gaps broadband workforce availability in Ohio, which threatens the BEAD timelines.** In Ohio, it is projected that the state will need over 2,500 workers to expand broadband and over 26,000 workers to deploy 5G technology through 2030. The broadband and 5G industry (telecommunications) are facing a widening skills gap due to a lack of standardized training programs and professional degree programs. The aging workforce and high turnover rates are contributing to a dwindling workforce in the industry. The constant evolution of technologies and lack of industry-academia partnerships pose significant challenges. The strategy hopes to implement countervailing efforts to address these gaps.

Listening session participants described the importance of addressing workforce readiness issues. During BEAD-SDOP listening sessions conducted during the

preparation of the Five-Year Action Plan, ISPs have already noted that labor is increasingly difficult to source. While training programs could help mitigate this labor gap, a listening session participant noted that workforce training programs for broadband deployment-related jobs may face attrition due to slow ramp-up in salary and labor-intensive nature of the job compared to other jobs with similar entry wage levels.

**Barrier to broadband deployment highlighted by stakeholders as key area to be addressed by BroadbandOhio.** During the BEAD-SDOP stakeholder engagement and during the workforce strategy development led by the Governor’s Office of Workforce Transformation, ISPs highlighted the need for the state’s attention and mitigation efforts toward workforce readiness:

**Broadband & 5G Workforce Strategy development.** The strategy is fundamentally grounded on areas that stakeholders have identified as those they believed the state should concentrate its efforts on to help address broadband workforce challenges. By implementing the workforce strategy directly, BroadbandOhio would thus help address key areas that stakeholders have identified as focus areas for the state.

For instance, to ensure Ohio conducted a thorough analysis, the Governor’s Office of Workforce Transformation and BroadbandOhio engaged stakeholders across the broadband and 5G spectrum from telecommunications, construction subcontracting, industry associations, trade groups, rural electric co-ops, nonprofits, career-technical education providers, Ohio Technical Centers, and two- and four-year colleges and universities. Over a four-week period, the state used a total of 10 stakeholder meetings to ensure it was accurately tracking the preliminary issues identified and to solicit feedback on what Ohio should do to address the broadband and 5G workforce shortage.

The meetings created positive collaboration between industry and education on identifying ways to build the broadband workforce needed in Ohio.<sup>239</sup>

The strategy additionally leveraged the Federal Communications Commission (FCC) Broadband Deployment Advisory Committee (BDAC)'s report that examined the broadband industry's workforce challenges in 2019.<sup>240</sup> The BDAC report was an extensive, fifteen-month process that looked at the broadband industry's workforce challenges at the national level. The Co-Chair of the FCC BDAC report, Dr. Rikin Thakker, who then served as the Chief Technology Officer at the Wireless Infrastructure Association (WIA), was an active participant in Ohio's broadband workforce analysis, using his national expertise to assist the state in identifying the key challenges for Ohio to address. The BDAC report and discussions with stakeholders clarified the need for the state to focus on a few key issue areas, which serve as the 3 pillars of the Strategy: broadband industry career awareness, education and training programs, and awareness of state and federal funding for training programs.<sup>241</sup>

**BEAD-SDOP survey.** ISP survey results additionally show that workforce readiness is a key area that ISPs want additional support from BroadbandOhio. When asked about the main types of support needed from BroadbandOhio to continue increasing access to affordable internet, internet capable devices, and digital skills, approximately 40% of the 21 ISP respondents cited “ensuring skilled workforce for broadband roles” as a key area, second only to “increasing funding/grants for broadband deployment.”<sup>242</sup>

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<sup>239</sup> [Strengthening Ohio's Broadband & 5G Workforce](#), page 4

<sup>240</sup> <https://www.fcc.gov/sites/default/files/bdac-job-skills-training-opportunities-approved-rec-10292020.pdf>

<sup>241</sup> [Strengthening Ohio's Broadband & 5G Workforce](#), page 4

<sup>242</sup> BroadbandOhio Internet Access Survey, as of July 11, 2023 (Respondent N = 21). Question: “What are the main types of support the ISP needs from BroadbandOhio to continue increasing access to affordable internet, internet capable devices, and digital skills? Select up to three.”

## Other Programmatic and Administrative costs

Funds will be leveraged for other programmatic and administrative costs to ensure an efficient and effective operation of the challenge process and subgrantee process, and administration during implementation. This may include funding use toward key grant application processing, program management, and compliance activities. The funds will be used to drive efficient and effective execution of the challenge process, the subgrantee selection process, and administration of the subgrants during implementation. BroadbandOhio may utilize a combination of internal staff, staff augmentation, and contractor support.

**Rationale.** BroadbandOhio has relevant experience implementing statewide broadband funding rounds through the ORBEG program and will leverage this knowledge toward efficiently undertaking administrative activities for grant management, challenge process implementation, and Subgrantee Selection Process execution. However, given the scale, scope, and timeline, funds are needed to support activities across the challenge process as well as grant application intake, review and processing, program management, and compliance activities.

## Relation to statutory objective of serving all unserved / underserved locations

The proposed deployment activities, combined with the Subgrantee Selection Process outlined in **2.4**, will help address BEAD's statutory objective of serving all unserved and underserved locations.

BroadbandOhio requests \$50 million, or approximately 6% of total BEAD funds, toward the workforce initiative after accounting for estimated amount of funds required to reach all unserved / underserved locations in BroadbandOhio.

Ohio currently has approximately \$872 million available for broadband deployment, from BEAD (\$793 million) and CPF (for ORBEG Round 2, \$79 million). Ohio also has approximately \$63 million in addition that will help reduce cost to pass, from the Ohio Broadband Pole Replacement and Undergrounding program (\$50 million) and CPF

projects (Western Ohio Infrastructure Upgrade Pilot Project and Line Extension Program).

Business case figures from the NTIA-provided Costquest data estimate approximately \$585 million will be required to bring the 20-year NPV figures to be at or above \$0, if assuming greenfield FTTH build to reach all unserved and underserved BSLs in Ohio as described above. Above estimate suggests that \$208 million out of \$793 million BEAD funding will remain after deployment efforts to reach all unserved and underserved BSLs. ORBEG Round 2 leveraging CPF funds will also be conducted prior to BEAD, which will additionally reduce the count of eligible BSLs by the time of BEAD funding rounds and subsequent need for BEAD outlay. BroadbandOhio anticipates this deployment cost could be further lowered by its Ohio Broadband Pole Replacement and Undergrounding program and other CPF programs, and the proposed workforce efforts to be funded by BEAD funds will further support timely, cost-efficient, and compliant deployment efforts.

Additionally, as mentioned above, BroadbandOhio believes upfront efforts toward developing a skilled, available broadband workforce within Ohio will help lower barriers for providers from participating in BEAD by preempting workforce-related roadblocks. BroadbandOhio anticipates these measures to help ensure greater participation and interest by providers, raise competition for BEAD funds, and thereby help ensure higher-quality bids. BroadbandOhio believes all of these factors will contribute to a more efficient BEAD fund outlay, which in turn would support the goal of serving all unserved and underserved locations with BEAD funds.

Beyond encouraging higher provider participation, the intended use of funds above is expected to additionally support the statutory objective of serving all unserved / underserved locations in the following manner:

- A. Reduced deployment cost. An available, appropriately skilled and credentialed workforce will help subgrantees reduce costs related to workforce recruitment, training, and preparedness, which would in turn reduce BEAD deployment

costs, help toward minimizing BEAD outlay, and better meet the objective of serving all unserved / underserved locations.

- B. Expedited deployment timeline. Ensuring workforce availability will help support subgrantees to reduce time required to secure an appropriately skilled and credentialed workforce for BEAD deployment projects, thereby reducing the overall deployment timeline to reach unserved / underserved locations.
- C. Compliance. Use of funds toward programmatic requirements for the challenge and subgrantee process (e.g., hiring of contractors for implementation of challenge and subgrantee process, or validating planned deployment activities by subgrantees) would help better ensure compliance with BEAD requirements in the process of meeting the statutory objective of serving all unserved / underserved locations.

(Req 2.14.2) The amount of the Initial Proposal Funding Request is \$793,688,107.63.<sup>243</sup>

(Req 2.14.3) BroadbandOhio will adhere to BEAD Program requirements regarding Initial Proposal funds usage.

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<sup>243</sup> Full allocation for the state of Ohio. See: <https://broadbandusa.ntia.doc.gov/news/latest-news/biden-harris-administration-announces-state-allocations-4245-billion-high-speed>

# Eligible Entity Regulatory Approach (Requirement 18)

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(Req 2.15.1):

- a. Disclose whether the Eligible Entity will waive all laws of the Eligible Entity concerning broadband, utility services, or similar subjects, whether they predate or postdate enactment of the Infrastructure Act that either (a) preclude certain public sector providers from participation in the subgrant competition or (b) impose specific requirements on public sector entities, such as limitations on the sources of financing, the required imputation of costs not actually incurred by the public sector entity, or restrictions on the service a public sector entity can offer.
- b. If the Eligible Entity will not waive all such laws for BEAD Program project selection purposes, identify those that it will not waive (using the Excel attachment) and their date of enactment and describe how they will be applied in connection with the competition for subgrants. If there are no applicable laws, note such.

Ohio will waive all Ohio laws concerning broadband, utility services, or similar subjects, whether they predate or postdate enactment of the Infrastructure Act that either (a) preclude certain public sector providers from participation in the subgrant

competition or (b) impose specific requirements on public sector entities, such as limitations on the sources of financing, the required imputation of costs not actually incurred by the public sector entity, or restrictions on the service a public sector entity can offer.

Specifically pertaining participation of public sector providers, BroadbandOhio will enable participation by public sector providers that have been established before the enactment of the Bipartisan Infrastructure Law, on November 15, 2021.<sup>244</sup>

**(Req 2.15.1.1) Optional Attachment:** As a required attachment only if the Eligible Entity will not waive laws for BEAD Program project selection purposes, provide a list of the laws that the Eligible Entity will not waive for BEAD Program project selection purposes, using the Eligible Entity Regulatory Approach template provided.

Not applicable

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<sup>244</sup> Enactment date from U.S. Department of Transportation. <https://www.transportation.gov/bipartisan-infrastructure-law/faq#:~:text=When%20was%20the%20Bipartisan%20Infrastructure.Law%20on%20November%2015%2C%202021.>



# Certification of Compliance with BEAD Requirements (Requirement 19)

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(Req 2.16.1) Certification: BroadbandOhio intends to comply with all applicable requirements of the BEAD Program, including the reporting requirements.

(Req 2.16.2) Description of subgrantee accountability procedures, including how BroadbandOhio will, at a minimum, employ the following practices outlined on page 51 of the BEAD NOFO:

- a. Distribution of funding to subgrantees for, at a minimum, all deployment projects on a reimbursable basis (which would allow the Eligible Entity to withhold funds if the subgrantee fails to take the actions the funds are meant to subsidize);
- b. The inclusion of clawback provisions (i.e., provisions allowing recoupment of funds previously disbursed) in agreements between the Eligible Entity and any subgrantee;

- c. Timely subgrantee reporting mandates; and
- d. Robust subgrantee monitoring practices.

BroadbandOhio intends to adopt the following steps to ensure subgrantee accountability.

**Distribution of all funds to subgrantees on a reimbursable basis:**

- A. Distribution of funding to subgrantees within the ORBEG-BEAD grant rounds will occur on a fixed award subgrant basis, following the latest NTIA guidance, and in alignment with Ohio Administrative Code, Rule 122:30-1-05. A portion of grant funds not to exceed thirty per cent of total grant funds awarded for the project will be disbursed prior to the commencement of project construction. A portion of grant funds not to exceed sixty per cent of total grant funds awarded to the project will be disbursed by periodic payments. Disbursement will be based on meeting measurable milestones in project construction progression prior to project completion, as determined by BroadbandOhio from the application materials. BroadbandOhio will include in the program grant agreement the progress reporting that must be submitted to BroadbandOhio for the applicant to receive a periodic disbursement.<sup>245</sup>
- B. Additionally, at least ten (10) percent of grant funds will be disbursed upon proof of project completion by submission of a project completion report to the Ohio Broadband Expansion Program Authority within sixty (60) days of project completion. A project is considered complete when the grantee can provide service to the approved addresses without extraordinary cost or time to the end-user.
- C. All subgrantees will be required to enter an award agreement specifying that BEAD funds will be disbursed upon satisfactory proof of the agreed project

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<sup>245</sup> [https://broadband.ohio.gov/static/Updated\\_ORC\\_122.30\\_ORBEG\\_Rules.pdf](https://broadband.ohio.gov/static/Updated_ORC_122.30_ORBEG_Rules.pdf)

commitments. Up to 90 percent of BEAD grant funds will be paid by periodic payment throughout the construction period. Upon completion of the project commitments outlined in the scope of work, the balance of the remaining BEAD grant funds will be disbursed no later than 60 days after receipt of confirmation of completion of construction of the project, as verified by speed tests. BroadbandOhio will judge the satisfaction of project commitments for disbursement of BEAD grant funds. All expenses paid with BEAD funds shall be supported by contracts, invoices, vouchers, paid receipts and other documentation as appropriate to evidence the costs incurred by the subgrantee in performing the BEAD project as described in its project milestones. Project milestones will be submitted to BroadbandOhio as part of the award agreement, which will be reviewed and approved by BroadbandOhio.

#### **The inclusion of claw-back provisions**

- A. Per HB33, Section 122.4020 (16), BroadbandOhio will require all potential subgrantees to provide a notarized statement affirming that the applicant broadband provider accepts the condition that non-compliance with BEAD program requirements may require the provider to refund all or part of any program grant the provider receives. In the coming months, BBOH will publish additional example documents such as the subgrantee application and the notarized statement (See 2.4.11.1 Optional Attachment).
- B. Upon subgrantee selection, the award agreement will stipulate that if BEAD grant funds are not expended by the subgrantee in accordance with the terms and conditions of the award agreement or within the time period set forth in the award agreement, the award of the BEAD grant funds shall cease, and BroadbandOhio shall have no further obligation to disburse the BEAD grant funds. The agreement will also stipulate that if BEAD grant funds have been paid to the subgrantee, and BroadbandOhio determines that the subgrantee has not performed in accordance with the terms and conditions of the award

agreement, the subgrantee shall return such improperly expended BEAD grant funds within 30 days after demand by BroadbandOhio.

- C. The award agreement will also stipulate that in the event of a subgrantee failure to perform any of its material obligations under the award agreement, BroadbandOhio may exercise remedies including discontinuation of fund disbursements, demand to subgrantee of repayment of grant funds, and other legal remedies.

### **Timely subgrantee reporting mandates**

BroadbandOhio will require all subgrantees to submit a quarterly report, which will include the following:

**Project description.** An account of how the program grant funds have been used and the project's progress toward fulfilling the objectives for which the program grant was awarded, including:

- A. Summary of reporting period activities
- B. Summary of progress toward milestone objectives and estimated percentage of completion
- C. Details and plans to overcome roadblocks if any
- D. Details and plans to move the project back on the project timeline if any delays have occurred or are expected
- E. Any public right-of-way or public facilities utilized within the project area
- F. Project type (e.g., fiber, fixed wireless, hybrid)

**List of addresses.** A list of addresses or identified locations (including the Broadband Serviceable Location Fabric established under 47 U.S.C. 642(b)(1)(B)) that constitute the locations that will be served by the broadband infrastructure to be constructed, as well as the status of each project, including:

- A. Tabulation of the full list of locations within the project scope, indicating for each address whether the location has been passed, the service speeds being offered, and whether the location is subscribing to the service.

**New locations served.** New locations served within each project area at the relevant reporting intervals as well as service taken (if applicable), including:

- A. Number of locations with access to broadband services that are counted as served due to the eligible project
- B. Number of locations that are not funded directly by the grant program but have access to broadband service and are counted as served due to the eligible project
- C. The number of broadband service subscriptions attributable to the program grant, including:
- D. Number of passes subscribing to service per grant, cumulative and during reporting period
- E. Number of subscribers on ACP plan
- F. Number of passes that chose not to take service for the reporting period.

**Type of location.** Whether each address or location is residential, commercial, or a community anchor institution.

**Type of facilities.** The types of facilities that have been constructed and installed, including:

- A. Miles of fiber or number of towers constructed if applicable.
- B. **Speed.** The upstream and downstream speed of the broadband service provided, including:
- C. Actual speed. Peak and off-peak actual speeds of the broadband service being offered
- D. Advertised speed. Maximum advertised speed of the broadband service being offered.

**Average price of broadband service.** The non-promotional prices, including any associated fees, charged for different tiers of broadband service being offered. Providers will be required to supply this information for both new customers and existing customers, along with a commitment to maintain these prices for the duration of the BEAD reporting period, in the same format for service rate information required during the application process. Subgrantees will be allowed to adjust prices yearly in-line with the Consumer Price Index. If the previously committed time period has not lapsed, the subgrantee can refer to the earlier commitment.

**Interconnection agreements.** All interconnection agreements that were requested and their current status.

**Contracts and subcontracts.** The number and amount of contracts and subcontracts awarded by the subgrantee, disaggregated by recipients of each such contract or subcontract that are MBEs or WBEs.

**Labor disclosures.** The total number of hires, from where they were hired, what trainings the hires have taken, and demographic information (e.g. gender, race or ethnicity) of the hires.

**Data mapping.** Any other data required to comply with the data and mapping collection standards of the Commission under Section 1.7004 of title 47, Code of Federal Regulations, or any successor regulation for broadband infrastructure projects.<sup>246</sup>

**Financial reporting.** An SF-425, Federal Financial Report that meets the requirements described in the Department of Commerce Financial Assistance Standard Terms and Conditions (dated November 12, 2020), Section A.01 for Financial Reports, as well as

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<sup>246</sup> 47 CFR 1.7004, <https://www.ecfr.gov/current/title-47/section-1.7004>

the Quarterly Fiscal Report, in Excel format, as well as any additional source documents as necessary.<sup>247</sup>

**Reporting requirements for projects over \$5 million.** For projects over \$5,000,000 (based on expected total cost):

- A. A subgrantee may provide a certification that, for the relevant project, all laborers and mechanics employed by contractors and subcontractors in the performance of such project are paid wages at rates not less than those prevailing, as determined by the U.S. Secretary of Labor in accordance with Subchapter IV of Chapter 31 of Title 40, United States Code (commonly known as the “Davis-Bacon Act”), for the corresponding classes of laborers and mechanics employed on projects of a character similar to the contract work in the civil subdivision of the State (or the District of Columbia) in which the work is to be performed, or by the appropriate State entity pursuant to a corollary State prevailing-wage-in-construction law (commonly known as “baby Davis-Bacon Acts”). If such certification is not provided, a recipient must provide a project employment and local impact report detailing:
- B. The number of contractors and sub-contractors working on the project
- C. The number of workers on the project hired directly and hired through a third party
- D. The wages and benefits of workers on the project by classification
- E. Whether those wages are at rates less than those prevailing<sup>248</sup>
- F. If a subgrantee has not provided a certification that a project either will use a unionized project workforce or includes a project labor agreement, meaning a

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<sup>247</sup> [https://www.commerce.gov/sites/default/files/2020-11/DOC%20Standard%20Terms%20and%20Conditions%20-%202012%20November%202020%20PDF\\_0.pdf](https://www.commerce.gov/sites/default/files/2020-11/DOC%20Standard%20Terms%20and%20Conditions%20-%202012%20November%202020%20PDF_0.pdf)

<sup>248</sup> As determined by the U.S. Secretary of Labor in accordance with subchapter IV of chapter 31 of title 40, United States Code (commonly known as the “Davis-Bacon Act”), for the corresponding classes of laborers and mechanics employed on projects of a character similar to the contract work in the civil subdivision of the State (or the District of Columbia) in which the work is to be performed.



pre-hire collective bargaining agreement consistent with Section 8(f) of the National Labor Relations Act (29 U.S.C. 158(f)), then the subgrantee must provide a project workforce continuity plan, detailing:

- G. Steps taken and to be taken to ensure the project has ready access to a sufficient supply of appropriately skilled and unskilled labor to ensure construction is completed in a competent manner throughout the life of the project (as required in Section IV.C.1.e), including a description of any required professional certifications and/or in-house training, registered apprenticeships or labor-management partnership training programs, and partnerships with entities like unions, community colleges, or community-based groups.
- H. Steps taken and to be taken to minimize risks of labor disputes and disruptions that would jeopardize timeliness and cost-effectiveness of the project.
- I. Steps taken and to be taken to ensure a safe and healthy workplace that avoids delays and costs associated with workplace illnesses, injuries, and fatalities, including descriptions of safety training, certification, and/or licensure requirements for all relevant workers (e.g., OSHA 10, OSHA 30, confined space, traffic control, or other training required of workers employed by contractors), including issues raised by workplace safety committees and their resolution.
- J. The name of any subcontracted entity performing work on the project and the total number of workers employed by each such entity, disaggregated by job title.
- K. Steps taken and to be taken to ensure that workers on the project receive wages and benefits sufficient to secure an appropriately skilled workforce in the context of the local or regional labor market.

**Certification.** Certification that the information in the report is accurate.

Beyond the above reporting requirements, BroadbandOhio will require subgrantees to submit the following reports:

**Project completion report.** Each broadband provider entering into a program grant agreement will promptly upon completion of its project provide notice to BroadbandOhio and the Ohio Broadband Expansion Program Authority that the project is complete in the manner and form set forth in the program grant agreement. Within sixty (60) days following completion of the project, the broadband provider will submit a project completion report to BroadbandOhio containing all information required in the quarterly report above, all information required in the program grant agreement, and any other information BroadbandOhio may request in the form and manner required by BroadbandOhio. The project completion report is also the broadband provider's first operational report, described below.

**Operational report.** On or before the date that is sixty (60) days from the project completion date, as indicated in the project completion notification, and for four (4) years following the year the broadband provider submits its project completion report, the broadband provider will submit an operational report to BroadbandOhio. The broadband provider will include in its operational report information included below, information required under the program grant agreement, and any other information requested by BroadbandOhio in the form and manner required by BroadbandOhio.

- A. An account of how program grant funds have been used and the project's progress toward fulfilling the objectives for which the program grant was awarded
- B. The number of locations that have access to tier-two broadband services as a result of the eligible project
- C. The number of locations that are not funded directly by the grant program but have access to tier-two broadband service as a result of the eligible project
- D. The upstream and downstream speed of the broadband service provided
- E. The average price of broadband service, in the service rate format described in the quarterly report above

- F. The number of broadband service subscriptions attributable to the program grant.

As a means of enforcement, BroadbandOhio will stipulate in its award agreement that if the subgrantee fails to submit any report and does not remedy it for more than 30 days, the subgrantee shall pay a monetary penalty as liquidated damages for the breach.

In addition, BroadbandOhio will meet with all subgrantees on a monthly basis. These meetings will include a sub-grantee status update and discussions on any roadblocks and approaches to troubleshooting if they should arise.

### **Robust subgrantee monitoring practices**

In the ORBEG award agreement, BroadbandOhio stipulates that, as part of the subgrantee reporting process, the subgrantee shall provide to BroadbandOhio such additional information and reports as BroadbandOhio may reasonably request as a requirement to evaluate the subgrantee's performance and the effectiveness of the award.

BroadbandOhio may, through an independent third party, conduct speed verification tests of an eligible project that receives a program grant. Such tests shall occur as follows:

- A. After the construction is complete, but prior to the final disbursement made to verify that tier-two broadband service is being offered.
- B. At any time during the reporting period required as described above, after receiving a complaint concerning a location that is part of the eligible project.

To evaluate compliance with BEAD broadband service standards, speed verification tests conducted as described here shall be conducted on at least two different days and at two different times on each of those days. BroadbandOhio may withhold

payments for failure to meet at least the minimum speeds required, until such speeds are achieved.<sup>249</sup>

**Site visits.** BroadbandOhio plans to conduct semi-annual site visits, as deemed necessary or appropriate in coordination with key milestones, to confirm that infrastructure build has been completed in the planned locations reported by subgrantees.

**Project completion verification.** BroadbandOhio will stipulate in the award agreement that, prior to final disbursement of BEAD grant funds, BroadbandOhio shall verify project completion by speed verification tests, or other means, of the last-mile infrastructure that is capable of providing service to the locations in the project milestones.

(Req 2.16.3) Certification. BroadbandOhio will account for and satisfy authorities relating to civil rights and nondiscrimination in the selection of subgrantees.

(Req 2.16.4) Certification. BroadbandOhio certifies that it will take all necessary affirmative steps to ensure subgrantee compliance with the cybersecurity and supply chain risk management requirements on pages 70 - 71 of the BEAD NOFO. Prospective subgrantees must attest that:

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<sup>249</sup> [Ohio House Bill 33](#), Sec. 122.4045.

## Cybersecurity

- A. The prospective subgrantee has a cybersecurity risk management plan (“the plan”) in place that is either: (a) operational, if the prospective subgrantee is providing service prior to the award of the grant; or (b) ready to be operationalized upon providing service, if the prospective subgrantee is not yet providing service prior to the grant award.
- B. The plan reflects the latest version of the National Institute of Standards and Technology (NIST) Framework for Improving Critical Infrastructure Cybersecurity (currently Version 1.1) and the standards and controls set forth in Executive Order 14028 and specifies the security and privacy controls being implemented.
- C. The plan will be reevaluated and updated on a periodic basis and as events warrant.
- D. The plan will be submitted to the eligible entity prior to the allocation of funds. If the subgrantee makes any substantive changes to the plan, a new version will be submitted to the eligible entity within 30 days.

## Supply Chain Risk Management (SCRM)

- A. The prospective subgrantee has a SCRM plan in place that is either: (a) operational, if the prospective subgrantee is already providing service at the time of the grant; or (b) ready to be operationalized, if the prospective subgrantee is not yet providing service at the time of grant award.
- B. The plan is based upon the key practices discussed in the NIST publication NISTIR 8276, Key Practices in Cyber Supply Chain Risk Management: Observations from Industry and related SCRM guidance from NIST, including NIST 800-161, Cybersecurity Supply Chain Risk Management Practices for Systems and Organizations, and specifies the supply chain risk management controls being implemented.

- C. The plan will be reevaluated and updated on a periodic basis and as events warrant.
- D. The plan will be submitted to the eligible entity prior to the allocation of funds. If the subgrantee makes any substantive changes to the plan, a new version will be submitted to the eligible entity within 30 days. The eligible entity must provide a subgrantee's plan to NTIA upon NTIA's request.

# Middle Class Affordability (Requirement 20)

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**(Req 2.13.1) Description of a middle-class affordability plan** that details how high-quality broadband services will be made available to all middle-class families in the BEAD-funded network’s service area at reasonable prices.

BroadbandOhio will take the following actions to make high-quality broadband services available to all middle-class families in the BEAD-funded network’s service area at reasonable prices:

**Leverage selection criteria relating to affordability.** As demonstrated in 2.4.2, BroadbandOhio will evaluate the prospective subgrantee’s commitment to provide the most affordable total price to the customer for 1 Gbps/1 Gbps service in the project area for priority broadband projects, or 100/20 Mbps service in the proposed service area for projects that are not priority broadband projects. Specifically, BroadbandOhio will require, as part of the application content, a customer service rate table from each applicant that specifies the committed rate for a plan in line with the speeds listed above. BroadbandOhio will use that information to calculate a statewide average price among BEAD prospective subgrantees for plans with the commensurate speed specifications. Specifically, the rates provided by applicants will be leveraged to calculate a weighted statewide average by proportion of all eligible BSLs that each application represents. Then, each application’s commensurate rate will be ranked in comparison to the calculated statewide average plan rate above, by

calculating each application’s count of standard deviations away from the statewide average rate, and percentiling the deviation across all applications. The lowest cost will receive the highest score according to the scoring criteria.

BroadbandOhio intends to assign 10% of the total scoring weight to this criterion. Through this scoring criteria, BroadbandOhio anticipates promoting competition toward providing affordable, high-speed plans for Ohioans.

**Using regulatory authority to promote structural competition by opening access to multi-dwelling units.** Ohio has regulatory requirements in place that help promote access to multi-dwelling units. Specifically, the 2022-2023 Qualified Allocation Plan for the Housing Tax Credit (HTC) stipulates that all developments participating in the HTC program (i) install wireless broadband infrastructure in each unit and all common areas, and (ii) provide free access in all common areas.<sup>250</sup>

**Promoting consumer pricing benchmarks that provide consumers an objective criterion to use in determining whether the rate offerings of broadband service providers are reasonable and to encourage providers to adopt affordable pricing.** BroadbandOhio intends to publish on its webpage the service rate information submitted by awarded subgrantees as part of the subgrantee process and project reporting requirements. The service rate information will be available for new customers and existing customers. BroadbandOhio anticipates that this pricing transparency will not only allow Ohioan consumers a benchmark to use when determining whether rate offerings by providers are reasonable but will also encourage providers to adopt affordable pricing.

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<sup>250</sup> Ohio Housing Finance Agency, Housing Tax Credit Program, 2022-2023 Qualified Allocation Plan (<https://ohiohome.org/ppd/documents/2022-2023-OAP.pdf>). Page 21: “All developments must install wireless broadband infrastructure in compliance with Federal Register 81 FR 31181 “Narrowing the Digital Divide through Installation of Broadband Infrastructure”. Installation must result in speeds in each unit (living or dining room and each bedroom) and all common areas meeting the Federal Communications Commission’s (FCC’s) definition in effect at the time of generating the pre-construction estimates. Owners are not required to pay for tenants’ service but must provide free access in all common areas (exclusive of circulation space) through the Extended Use Period (does not apply to developments in areas that lack broadband service).”



# Public Comment

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(Req 2.13.1) Describe the public comment period and provide a high-level summary of the comments received during the Volume II public comment period and how they were addressed by the Eligible Entity. The response must demonstrate:

- a. The public comment period was no less than 30 days; and
- b. Outreach and engagement activities were conducted to encourage feedback during the public comment period.

BroadbandOhio’s public comment period for Volume II of the Initial Proposal commenced Monday, October 23, 2023 and was held through the end of Tuesday, November 21, 2023. **37 comments from the public were received during the public comment period.** At a high-level summary of comments provided and the BroadbandOhio response is as follows:

- o (Requirement 8) Subgrantee selection – Reference Cost: Commenters requested that points be provided for bids above the reference cost. The approach has been modified so that if all bids are above the reference cost, then the lowest bid will receive points (see 2.4.2).
- o (Requirements 11, 19) Labor standards and protections – Disclosures: Aligned to a commenter requests:
- o Applicants will be required to disclose information on training and safety, job quality, local hire and targeted hire, accountability and subcontracting practices, and ongoing operational workforce (see 2.7.1)

- o Subgrantees will be required to disclose from where their workforce is hired, what trainings the workforce has taken, and demographic information (i.e., gender, race, or ethnicity) of the workforce (see 2.16.2).
- o (Requirement 16) Low-cost service option: Commenters expressed concern around maintaining a fixed price for the 4 years following completion of the build, and concerns related to determining eligibility and verification of eligibility should ACP not be renewed. To address these concerns, BroadbandOhio has modified the low-cost service option as follows:
  - o The price of the low-cost service option can be adjusted annually with the consumer price index (see 2.12.1).
  - o In the event that ACP is not renewed, the Broadband Expansion Program Authority will make a determination as to who is eligible for the low-cost option in Ohio and the low-cost option will apply to those residents. BroadbandOhio and Department of Development will work to ensure there is a mechanism to verify eligibility (see 2.12.1).
  - o All remaining requirements of the low-cost service have not been modified.
- o (Requirement 19) Subgrantee accountability procedures – Distribution of funding to grantees: Commenters requested that Ohio deem all awards fixed amount subawards. Aligned to this request and to the ORBEG rules, reimbursement will occur on a fixed award subgrant basis, following the latest NTIA guidance, and in alignment with Ohio Administrative Code, Rule 122:30-1-05. A portion of grant funds not to exceed thirty per cent of total grant funds awarded for the project will be disbursed prior to the commencement of project construction. A portion of grant funds not to exceed sixty per cent of total grant funds awarded to the project will be disbursed by periodic payments, based on meeting measurable milestones approved by BroadbandOhio. At least ten (10) percent of grant funds will be disbursed upon proof of project completion (see 2.16.2.A).

A more detailed high-level summary of the comments received is provided in the table below.

Outreach and engagement activities conducted to encourage feedback during the public comment period included:

- **Publication of Volume II on BroadbandOhio website:** The Initial Proposal Volume II public comment period has been posted publicly on BroadbandOhio’s website, with a link to the dedicated webpage prominently displayed on the landing page for BroadbandOhio.
- **Outreach to Regional Digital Inclusion Alliances (RDIA):** As demonstrated in the Five-Year Action Plan, Regional Digital Inclusion Alliances (RDIA) were formed in October 2022 by BroadbandOhio across five regions of the state (Northwest, Northeast, Central, Southeast, Southwest) to serve as collaborative partners with BroadbandOhio. These alliances bring together diverse stakeholders to coordinate regional planning, support digital inclusion, and collect local feedback to inform Ohio’s Digital Opportunity Plan. BroadbandOhio announced the start of the Initial Proposal Volume II public comment period to all RDIA leads via email. The email included information regarding where to find the draft, how to submit a comment, and until when the public comment period lasted. The email requested the RDIA leads to not only participate in the public comment period themselves but also to notify stakeholders in their respective regions to maximize public participation.
- **Outreach to Ohio Broadband Alliance:** The Ohio Broadband Alliance convenes stakeholders quarterly to discuss progress toward our collective goals, insights, best practices from recent work, and opportunities to collaborate. BroadbandOhio leads this coalition of over 500 members comprising ISPs, local governments, and non-profits. Internet service providers (ISPs), community and non-profit organizations, local government leaders, state and federal agencies, economic development organizations, and industry trade associations are especially encouraged to attend. BroadbandOhio announced the start of the Initial Proposal Volume II public comment period to all Broadband Alliance members via email to the listserv. The email included information regarding where to find the draft, how to submit a comment, and

until when the public comment period lasted. The email requested Broadband Alliance members to provide any questions, comments, or suggestions.

- **Outreach to Broadband Working Group:** This group convenes key Ohio state agencies related to broadband so they can identify barriers to broadband deployment, align on priorities, collect information on assets they can leverage, and more. The Working Group consists of InnovateOhio; the Ohio Departments of Development (Governor’s Office of Workforce Transformation, Governor’s Office of Appalachia), Education, Administrative Services, and Higher Education; OARnet; and the Ohio Education Computer Network Management Council. BroadbandOhio announced the start of the Initial Proposal Volume II public comment period to all Broadband Working Group members via email. The email included information regarding where to find the draft, how to submit a comment, and until when the public comment period lasted. The email requested Broadband Alliance members to provide any questions, comments, or suggestions.
- **Outreach to service provider association groups.** The Chief of BroadbandOhio placed calls to the leadership of OCTA, OTA, WISPA to notify them about the Initial Proposal Volume II draft, the executive summary, and the public comment period.
- **Ongoing stakeholder engagement efforts.** BroadbandOhio has continued to conduct stakeholder engagement efforts. Following the Initial Proposal Volume II public comment period launch, BroadbandOhio encouraged stakeholders engaged to participate in the public comment period. Meetings occurred during this period include the following:
  - **BroadbandOhio Alliance Quarterly Meeting (July 26, 2023):** The Quarterly Alliance meeting engaged stakeholders from across the state to discuss upcoming funding opportunities, program status updates, and discussion of BEAD program. Approximately 60 people participated.

- **Meeting with Ohio Telecom Association (OTA) (August 11, 2023):**  
BroadbandOhio engaged ISP representatives to discuss upcoming funding opportunities and BEAD. Approximately 100 people participated.
- **Meeting with multiple county commissioners (August 14, 2023):**  
BroadbandOhio engaged county commissioners from Preble, Miami, Montgomery, and Darke to discuss a potential group broadband study / project, and spoke about upcoming funding and BEAD program. 12 people participated.
- **Meeting with County Commissioners Association of Ohio (CCAO) (August 17, 2023):** BroadbandOhio engaged county commissioners regarding upcoming funding opportunities and the challenge process for BEAD. Approximately 100 people participated.

The Ohio Broadband Alliance and RDIA's bring together diverse stakeholders including local community organizations, unions and worker organizations, and other underrepresented groups. These have been particularly effective for engaging these groups during the focused BEAD-SDOP outreach in Q1-Q2 2023.

Table 19: Summary of comments and the BroadbandOhio response

– Category	– Summary of public comments	– BroadbandOhio response
– Requirement 1 – Objectives		
– Vision	<ul style="list-style-type: none"> <li>○ Revise pg 4 to read “Ohio has also led innovation in bringing high-speed internet access to our K-12 schools, higher education institutions, <b>state</b> and local governments, public broadcasting, health care and libraries by creating a nationally recognized statewide <b>infrastructure Research and Education Network</b> called OARnet to deliver ultra-fast fiber-optic connectivity. <b>OARnet also serves as Ohio’s Research and Education Network (REN)</b>” (OARnet)</li> <li>○ Revise pg 6 to read “Enable participation in the <b>digital</b> economy; and...” (OARnet)</li> <li>○ Revise pg 12 to read “AT&amp;T, Independents Fiber Network (IFN), <b>the Ohio Middle Mile Consortium, OARnet...</b>” (OARnet)</li> <li>○ Revise pg 12 to read “OARnet’s <b>at minimum</b> 100-Gigabit-per-second fiber network is available to <b>CAIs, sponsored</b> hospital systems, private companies engaged in R&amp;D, select economic development-focused projects and private data centers where OARnet clients have requested service” (OARnet)</li> <li>○ Revise objective B2a’s KPI to include all CAIs that are unserved, underserved or are in a PAU (National Church Residences)</li> <li>○ Revise pg 18 to read “3. Support Ohio’s farmers to improve productivity by enabling <b>digital agriculture uptake...</b>” (OARnet)</li> <li>○ Revise pg 19 to read “Ohio aims to support farmers by enabling <b>precision</b> agriculture uptake.” (OARnet)</li> </ul>	– BroadbandOhio thanks OARNet for the line edits and plans to incorporate them.

	<ul style="list-style-type: none"> <li>o Revise pg 19’s statement “These technologies allow farmers to analyze and maintain soil and crop health, making Ohio ecosystems more stable...” to include mention of Great lakes basin in OHIO and the threat of HAB as a result of overfertilizing to the freshwater of the great lakes <i>OARnet</i>)</li> <li>o Revise pg 58 to read “If there are any project area units remaining after a second ORBEG-BEAD grant round... can leverage state assets (e.g., <i>OARnet</i>, MARCS towers), and will be owned by the state of Ohio...(<i>OARnet</i>)</li> </ul>	
– Requirement 7 – Challenge Process (Volume 1)		
– Locations served via DSL	<ul style="list-style-type: none"> <li>o Accept the data from the FCC’s broadband data collection map which includes a challenge process <i>or</i> adopt NTIA’s Speed Test Modifications to allow providers to formally prove speeds provided instead of selecting DSL modification (<i>TIA</i>)</li> </ul>	– This comment is relevant to volume 1 of the Initial Proposal. As described in Volume I, BroadbandOhio plans to institute the DSL modification in favor of more future-focused technologies that support anticipated resident needs.
– Requirement 8 – Detailed description of deployment subgrantee selection		
– <i>Subgrantee process A) Fair Open competitive process</i>		
– Pre-qualification submission	<ol style="list-style-type: none"> <li>1. Clarify the length of the pre-qualification filing window – two months versus 30 days (<i>MetaLINK Technologies, Inc.,</i>)</li> <li>2. Provide additional clarity if subgrantees are required to submit their project-specific information during the subgrantee selection process, use the prequalification process to determine applicants’ financial, operational, managerial, technical, compliance, ownership, and other public funding materials ahead of the application submission (<i>Frontier</i>)</li> </ol>	<ul style="list-style-type: none"> <li>o Subject to NTIA approval, BroadbandOhio intends the following:</li> </ul>

	<ol style="list-style-type: none"> <li>3. Revise the pre-application process to include the submission of additional information that is consistent across the company (e.g., core narratives on company policies, pricing and compliance requirements) and project-related materials (e.g., project plan, timing, budget proformas, local support and grant request (<i>Brightspeed</i>))</li> <li>4. Revise pre-application process to only have high-level documents (<i>WISPA</i>)</li> </ol>	<ol style="list-style-type: none"> <li>1. The pre-qualification window will be 30 days.</li> <li>2. Project information is not required during the pre-qualification window.</li> <li>3. The materials required during the pre-qualification window will remain those listed in the draft of Initial Proposal Volume II.</li> <li>4. Same as above.</li> </ol>
<ul style="list-style-type: none"> <li>– Eligible participants</li> </ul>	<p>Revise requirements to disallow companies from requesting funding that exceeds 25% of their total previous year revenue (<i>Windstream</i>)</p>	<ul style="list-style-type: none"> <li>– As part of subgrantee pre-qualification, applicants will be required to provide materials that demonstrate financial stability. BroadbandOhio will incorporate milestone-based payments to mitigate providers' inability to complete the contracted work.</li> </ul>
<ul style="list-style-type: none"> <li>– <b>Structure of the subgrant process</b></li> </ul>	<ol style="list-style-type: none"> <li>1. Clearly set forth that the BEAD program must permit competitive broadband and infrastructure (<i>INCOMPAS</i>)</li> <li>2. Remove any preference of certain types of entities (<i>INCOMPAS</i>)</li> <li>3. Revise the subgrantee process to assure that successful applications in the first round are funded under the terms and conditions set out in the</li> </ol>	<ol style="list-style-type: none"> <li>1. Ohio will adopt NTIA guidelines regarding competition within the BEAD program.</li> </ol>



	<p>successful applications and that the criteria for addressing how areas for which there is not an appropriate application are managed are set out clearly (<i>Ohio Telecom Association</i>)</p> <ol style="list-style-type: none"> <li>4. Round 1 should only allow applicants form providers for priority broadband projects (<i>OCTA</i>)</li> <li>5. BROADBANDOHIO should adopt front-end process to remove “high-cost outliers” from PAUs in Round 1 (<i>OCTA</i>)</li> </ol>	<ol style="list-style-type: none"> <li>2. The BEAD NOFO and guidance set forth the rules on prioritization which BroadbandOhio plans to follow.</li> <li>3. Awards in round 1 will be provisional, to ensure that Ohio has sufficient funds to reach the entire state.</li> <li>4. Any qualifying applicant can submit an application during round 1.</li> <li>5. PAUs will be mutually exclusive, and collectively exhaustive in their coverage of all eligible BSLs in the state</li> </ol>
<ul style="list-style-type: none"> <li>– Application materials</li> </ul>	<ul style="list-style-type: none"> <li>o Clarify which documents and project specific information would be placed online for public viewing and expresses concern with the publishing of Resumes for key management, audited financial statements, and network design diagram (<i>Frontier</i>)</li> </ul>	<ul style="list-style-type: none"> <li>– BroadbandOhio plans to remove all proprietary and confidential information. Providers can mark certain sections (e.g., financial documents, key personnel etc.) as proprietary and/or “trade secrets”. These sections won’t be published.</li> </ul>
<ul style="list-style-type: none"> <li>– Awards</li> </ul>	<ul style="list-style-type: none"> <li>o Deem all awards are fixed amount subawards, notwithstanding any specific reimbursement language in the subgrant agreement or state regulation (<i>USTelecom. Brightspeed</i>)</li> </ul>	<ul style="list-style-type: none"> <li>– BroadbandOhio intends to follow the latest NTIA guidance, which may include allowances for fixed amount subawards; and, to be as aligned as possible with the</li> </ul>

	<ul style="list-style-type: none"> <li>○ Protect against scenarios where \$1 commitments could pay penalty for non-compliance cost to push out competitors (<i>OCTA</i>)</li> </ul>	<p>milestone payment approach of the ORBEG program.</p> <ul style="list-style-type: none"> <li>– The non-compliance cost will be set to ensure that there will be adequate funds to ensure impacted BSLs will be served.</li> </ul>
<p>– <i>Subgrantee process B) Prioritization</i></p>		
<ul style="list-style-type: none"> <li>– Technology preference</li> </ul>	<ul style="list-style-type: none"> <li>○ Direct public funds towards future-proof fiber technology, which is scalable, sustainable, and cost-effective. Policymakers should be informed on the advantages and limitations of different technologies (<i>CWA, INCOMPAS</i>)</li> <li>○ Prioritizes grantees with a proven ability to scale to meet their community’s needs (<i>INCOMPAS</i>)</li> <li>○ Revise of “prioritizing end-to-end fiber projects” to include wireless providers’ opportunities (<i>OARnet</i>)</li> <li>○ Adjust approach to ensuring coverage for all unserved locations to include fixed wireless access before consideration of non-reliable broadband technologies like satellite (<i>CITA</i>)</li> <li>○ Prioritize investment in end-to-end fiber (<i>Lit Fiber</i>)</li> <li>○ Do not decline fiber-based proposal from qualified applicant if it has sufficient funding to allow the development (<i>OCTA</i>)</li> <li>○ Consider limitations of LEO satellite networks and consider fixed wireless as reliable broadband services (<i>Tarana Wireless</i>)</li> <li>○ Allowing up to 20% of BSLs in area to be serviced by non-fiber insofar that performance exceeds 200/50 or 400/100 (<i>Tarana Wireless</i>)</li> </ul>	<ul style="list-style-type: none"> <li>– The technology preferences associated with disbursement of the BEAD funds are determined and described by NTIA in the BEAD NOFO. BroadbandOhio will follow the required prioritization described in the BEAD NOFO.</li> </ul>

	<ul style="list-style-type: none"> <li>○ Allow FWA in Round 1 and plan to set EHCPLT to allow alternative technologies in particularly hard to service areas (<i>WISPA</i>)</li> <li>○ Remove language prioritizing end-to-end fiber optic projects (<i>Upward Broadband</i>)</li> </ul>	
<ul style="list-style-type: none"> <li>– Waivers re: last-mile deployment</li> </ul>	<ul style="list-style-type: none"> <li>○ Request waivers for universal obligation to deploy broadband to every location, especially where communities are not interested in subscribing to or use broadband services (<i>Brightspeed</i>)</li> </ul>	<ul style="list-style-type: none"> <li>– BroadbandOhio plans to apply for waivers in communities where residents and local governments have expressed that they do not want broadband infrastructure built.</li> </ul>
<ul style="list-style-type: none"> <li>– Last-mile projects</li> </ul>	<ul style="list-style-type: none"> <li>○ Prioritize the use of any remaining funds to improve wireless coverage (<i>CITA</i>)</li> </ul>	<ul style="list-style-type: none"> <li>– The BEAD program has specific requirements related to the use of remaining funds. This request is not compliant with the BEAD requirements.</li> </ul>
<ul style="list-style-type: none"> <li>– CAI Funding Eligibility</li> </ul>	<ul style="list-style-type: none"> <li>○ Classify affordable housing similar to public housing, as a CAI under NOFO's definition of HUD-assisted housing (<i>EducationSuperHighway</i>)</li> </ul>	<ul style="list-style-type: none"> <li>– This comment is relevant to Initial Proposal Volume I. In Ohio's classification, affordable housing is classified within BSLs and not within CAIs.</li> </ul>
<ul style="list-style-type: none"> <li>– Back-up signal source</li> </ul>	<ul style="list-style-type: none"> <li>○ Address the need for a robust and resilient back-up timing signal source as part of broadband deployment (e.g., Nationwide Integration of Timing Resiliency for Operation, NITRO (<i>Critical Infrastructure Resilience Institute</i>))</li> </ul>	<ul style="list-style-type: none"> <li>– Companies whose technology assists an ISP in its resilience and redundancy for latency/speed qualify to be included as an eligible expense in in that ISP's proposal. BroadbandOhio</li> </ul>

		recommends that this commenter engage local ISPs in order to effectuate this goal.
<ul style="list-style-type: none"> <li>- Unserved locations</li> </ul>	<ul style="list-style-type: none"> <li>o Prioritize all unserved locations for funding in a first round of bidding, use remaining funds to support underserved locations in a second bidding round (<i>Windstream</i>)</li> </ul>	<ul style="list-style-type: none"> <li>- BroadbandOhio’s approach will leverage PAUs which are groupings of BSLs that include both unserved and underserved locations in the same PAU. PAUs with more unserved locations are likely to have higher reference costs, which may make them more attractive and more likely to be bid on in the first round.</li> </ul>
<ul style="list-style-type: none"> <li>- <i>Subgrantee process C) Scoring</i></li> </ul>		
<ul style="list-style-type: none"> <li>- Minimal BEAD outlay scoring</li> </ul>	<ol style="list-style-type: none"> <li>1. Revise the scoring criteria to determine if there is a better gauge for minimal BEAD outlay than a focus on large projects to large amounts of eligible locations (<i>Brightspeed</i>)</li> <li>2. Clarify whether the “per eligible address” in minimal BEAD outlay scoring will be inclusive of unit level addresses in MDUs (<i>EducationSuperHighway</i>)</li> <li>3. Include resiliency strategies (such as those of CPUC) (<i>CWA</i>)</li> <li>4. Include total cost estimated (<i>OCTA</i>)</li> <li>5. Use percent project costs covered by non-state match (<i>OCTA</i>)</li> </ol>	<ol style="list-style-type: none"> <li>1. The scoring rubric described in the draft initial proposal is consistent with both BEAD and Ohio priorities. The scoring rubric does provide more points to projects that incorporate PAUs with more BSLs</li> <li>2. “Per eligible address” corresponds to a BSL, not a unit in an MDU.</li> <li>3. Ohio has described its approach to resiliency in section 2.11.1.</li> </ol>

		<ul style="list-style-type: none"> <li>4. Total cost estimated is a component of the calculation of non-state match, which is part of the scoring rubric.</li> <li>5. Non-state match is part of the scoring rubric (see: Rating Broadband Service Speed)</li> </ul>
<ul style="list-style-type: none"> <li>– CAIs and scoring</li> </ul>	<ul style="list-style-type: none"> <li>1. Prioritize proposals that maximize the potential future inclusion of CAIs by scoring higher designs that include the most CAI pass-byes (<i>EducationSuperHighway</i>)</li> <li>2. Prioritize proposals with multi-dwelling CAIs where majority of units are unserved/underserved (NationalChurchResidences)</li> </ul>	<ul style="list-style-type: none"> <li>1. The state of Ohio intends to provide resources to maximize CAI connectivity through a separate RFP process subsequent to the rounds of funding focused on BSLs.</li> <li>2. In the FCC National Broadband maps, MDUs are BSLs. MDUs will be treated in the same way as other BSLs in the state process.</li> </ul>
<ul style="list-style-type: none"> <li>– Affordability scoring</li> </ul>	<ul style="list-style-type: none"> <li>1. Revise affordability requirements to mandate a price or rate for unregulated services (<i>Brightspeed</i>)</li> <li>2. Assign additional significance to affordability scoring (<i>EducationSuperhighway</i>)</li> <li>3. Award additional points to solutions that have a commitment to offer free service during the performance period of BEAD (<i>EducationSuperhighway</i>)</li> <li>4. Require, or at least score higher, solutions that result in property ownership of internal wiring within an MDU (<i>EducationSuperHighway</i>)</li> <li>5. Consider factors beyond cost in affordability criteria (e.g., download/upload speeds, latency, limits on usage and availability, and</li> </ul>	<ul style="list-style-type: none"> <li>1. BroadbandOhio does not mandate a price for any services.</li> <li>2. The current scoring rubric captures Ohio’s priorities for broadband deployment, which are consistent with the HB-33 legislation.</li> <li>3. The current scoring rubric captures Ohio’s priorities for broadband deployment,</li> </ul>

	<p>any material network management practices) (<i>EducationSuperHighway</i>)</p> <ol style="list-style-type: none"> <li>6. Clarify all applicants submit non-promotional pricing for 1/1 Gbps tier (<i>OCTA</i>)</li> <li>7. Award full points if either (1) pricing is consistent with unsubsidized areas or (2) no higher than FCC’s reasonable comparability benchmark on URS (<i>OCTA, Americans for Tax Reform</i>)</li> </ol>	<p>which are consistent with the HB-33 legislation.</p> <ol style="list-style-type: none"> <li>4. MDUs will be treated in the same manner that other BSLs are treated in the sub-grantee selection criteria.</li> <li>5. Download/upload speeds and latency are considered in the scoring rubric.</li> <li>6. All applicants will be required to submit non-promotional pricing for 1 Gbps symmetrical.</li> <li>7. See answer (2) above..</li> </ol>
<p>– \$1 Commitment</p>	<ol style="list-style-type: none"> <li>1. Clarify what enforceable components will be to ensure subgrantees will perform their work re: “These subgrantees will enter into an enforceable commitment that is functionally equivalent to the commitment that would have been made to an actual subgrantee receiving funds” (<i>OARnet</i>)</li> <li>2. Suggestion that BroadbandOhio withdraw this second challenge process from its proposal, as it appears to be at odds with the IIJA. In particular, the IIJA requires states to run a comprehensive eligible location challenge process prior to accepting applications specifically for the purpose of ensuring that the locations identified as eligible for BEAD funding are as up to date as possible. It is during this statutorily required challenge process that providers (and other entities) should present evidence that they are already providing service to one or more locations or have plans to provide service to those locations. (<i>AT&amp;T</i>)</li> <li>3. There is an administrative cost to complying with grants, including all the reporting and tracking, which would not otherwise be required absent having to execute a grant agreement. Perhaps there are some</li> </ol>	<ol style="list-style-type: none"> <li>1. As described in initial proposal volume II, non-compliance with a \$1 commitment will result in the defaulter’s requirement to pay the greenfield fiber investment cost for the defaulted PAU.</li> <li>2. BroadbandOhio believes the \$1 Commitment is within the BEAD/NTIA guardrails and plans to further review the proposal with NTIA for their decision.</li> <li>3. Providers are welcome to submit bid amounts of their choosing, which can include</li> </ol>

	<p>administrative costs that would be allowed to be recovered or a recognition that reporting and compliance for a \$1 Commitment Offer is not the same as the grant reporting and compliance given that no funding is provided. (<i>Brightspeed</i>)</p> <p>4. Concern that a zero dollar commitment will yield minimal benefits, if any, for the provider given the federal requirements and standards that would need to be met (<i>Lit Fiber</i>)</p>	<p>transaction costs that cover reporting, compliance, and other administrative costs.</p> <p>4. See (2) above.</p>
<p>– Fair Labor Practices scoring</p>	<ol style="list-style-type: none"> <li>1. Adding additional requirements – with respect to wages and labor laws -- above and beyond the federal standards will simply create additional barriers to efficient construction (<i>Windstream</i>)</li> <li>2. Prioritize subgrantees that commit to high road labor practices, including using a directly employed workforce, robust in-house training, quality wages and benefits, and a locally based workforce (<i>CWA</i>)</li> <li>3. Incorporate disclosure requirements on locally based workforce (<i>CWA</i>)</li> <li>4. Incorporate disclosure requirements on ongoing operational workforce (<i>CWA</i>)</li> <li>5. In-house training to be considered similar to apprenticeships (<i>CWA</i>)</li> <li>6. Increase weight of fair labor practices in scoring (<i>IBEW</i>)</li> <li>7. Prioritize subgrantees that will employ unionized OH residents (<i>IBEW</i>)</li> <li>8. Include claw back provisions in agreements with the Eligible Entity and any subgrantee in the event of subgrantee violation of labor provisions (<i>IBEW</i>)</li> <li>9. Revisit the fair labor practices scoring criteria to remove or relax requirements to hire apprentice program participants and to consider and to score evidence of past compliance and existing policies and practices (<i>Brightspeed</i>)</li> <li>10. Do not include scoring credit for hiring goals (<i>Chamber of Commerce, Altafiber</i>)</li> <li>11. Do not include binding commitments to hire from apprenticeship but only applicant’s record of compliance in fair labor practice (<i>OCTA</i>)</li> </ol>	<p>Response to 1 – 7, 9, 10, 11:</p> <p>BroadbandOhio thanks the commenters for the feedback. BroadbandOhio is committed to having a robust and strong workforce. In partnership with the Governor’s Office for workforce transformation, BroadbandOhio has released the premier 5G and Broadband workforce development strategy in the country. BroadbandOhio believes the existing workforce strategy effectuates the priorities described in the public comment submission. The workforce related components of the rubric support the Governor’s strategy</p>

		<p>and are aligned to BroadbandOhio’s priorities.</p> <p>BroadbandOhio plans to require subgrantees to disclose from where their workforce is hired, what trainings the workforce has taken, and demographic information of the workforce (i.e., gender, race or ethnicity).</p> <p>Response to 8: Ohio feels that the workforce plan sufficiently prioritizes the development and sustainability of a workforce in Ohio.</p>
<p>– Speed to deployment scoring</p>	<ol style="list-style-type: none"> <li>1. Complete post-deployment audits within one year of a project’s completion and that financial documentation should allow providers to use their own accounting systems as evidence of product purpose (<i>Windstream</i>)</li> <li>2. Change Speed to Deployment to 55 points and network speed and technical capabilities to 35 points (<i>WISPA</i>)</li> </ol>	<ol style="list-style-type: none"> <li>1. BroadbandOhio welcomes reporting from a provider accounting system. BroadbandOhio also reserves the right to independently verify that the product has been delivered.</li> <li>2. The current scoring rubric captures Ohio’s priorities for broadband deployment,</li> </ol>



		which are consistent with HB-33.
<ul style="list-style-type: none"> <li>- Open Access scoring</li> </ul>	<ul style="list-style-type: none"> <li>o Adopt Open Access as a secondary criterion for selecting Priority Broadband Projects (<i>INCOMPAS</i>)</li> </ul>	<ul style="list-style-type: none"> <li>- The current scoring rubric captures Ohio’s priorities for broadband deployment.</li> </ul>
<ul style="list-style-type: none"> <li>- Local coordination scoring</li> </ul>	<ul style="list-style-type: none"> <li>o Revise this requirement to allow for a less cumbersome process for providers to satisfy community involvement points to require providers to meet with either the Board of Commissioners or the Broadband Task Force to satisfy all scoring points (<i>Mercury Broadband, AT&amp;T</i>)</li> <li>o Remove the word “resolution” from page 70s “Local Support for application” portion and instead amend it to “letter of support,” (<i>Frontier</i>)</li> <li>o Revise the community engagement and local letters of support requirement to encompass all types of stakeholders (e.g., state and federal legislators, CAIs, businesses and potential residential customers) (<i>Brightspeed</i>)</li> </ul>	<ul style="list-style-type: none"> <li>- The current scoring rubric captures Ohio’s priorities for broadband deployment, which are consistent with the HB-33 legislation.</li> </ul>
<ul style="list-style-type: none"> <li>- Years providing service in Ohio Scoring</li> </ul>	<ul style="list-style-type: none"> <li>o Revise the IP to clarify whether the “Years providing service in Ohio” Secondary scoring Criteria will consider/include the amount of years of service provided by affiliate entities or entities acquired by or merged with the applicant (<i>Breezeline</i>)</li> <li>o Revise criteria to distinguish providers with multiple decades of providing broadband services by awarding additional points based on number of years of experience (<i>NKTelco</i>)</li> </ul>	<ul style="list-style-type: none"> <li>- The current scoring rubric captures Ohio’s priorities for broadband deployment, which are consistent with the HB-33 legislation.</li> </ul>

<ul style="list-style-type: none"> <li>- Overall scoring comments scoring</li> </ul>	<ul style="list-style-type: none"> <li>o Reconstruct the scoring process to better allow for competition of small to medium ISPs who rely on broadband as their sole source of revenue and profit and offer a community-based, localized approach to deployment (<i>Mercury Broadband</i>)</li> <li>o Reconsider the allocation of points among the three Primary Criteria to prioritize broadband availability objectives (AT&amp;T)</li> <li>o Revise any scoring that encourages economies of scale to allow for fair competition for smaller companies, remove points based on project size (<i>MCTV</i>)</li> <li>o Reconsider legibility of second tranche's 0.5 weightage as that could mean that one is unable to get to 100% (<i>Altafiber</i>)</li> <li>o Scoring of non-fiber applications using project outlay must account for \$1 commitments (<i>OCTA</i>)</li> <li>o Scale adjusted for FTTH to receive 50 points, 10 points for wireline broadband or reliable, and 0 for non-reliable (<i>OCTA</i>)</li> </ul>	<ul style="list-style-type: none"> <li>o The current scoring rubric captures Ohio's priorities for broadband deployment, which are consistent with the HB-33 legislation.</li> <li>o Regarding (1), Local ISPs should be well known to local leaders, enabling them to score higher in local coordination / support.</li> <li>o Regarding (4), please see the ORBEG guidebook example of the calculation method for "Rating Broadband Service Cost"</li> </ul>
<ul style="list-style-type: none"> <li>- Subgrantee process D) Project area &amp; reference prices</li> </ul>		

<ul style="list-style-type: none"> <li>- Definition of PAU</li> </ul>	<ol style="list-style-type: none"> <li>1. Allow flexibility in how project areas are defined, rely on census blocks, census block groups or allow providers to define their own scope (<i>Windstream, Brightspeed, AT&amp;T</i>)</li> <li>2. Allow applicants to choose their own project areas (<i>Breezeline, Frontier, UStelecom, OCTA</i>)</li> <li>3. Allow providers, as part of any proposal, to designate “Must-include Project Area Units” ones that contain the core buildout necessary to make the project area viable (<i>Brightspeed</i>)</li> <li>4. Use individual census blocks rather than CBGs as starting point (<i>WISPA</i>)</li> </ol>	<ol style="list-style-type: none"> <li>1. BroadbandOhio plans to institute the current approach to PAUs (as Census Block Groups), subject to NTIA approval.</li> <li>2. Same as above</li> <li>3. Same as above</li> <li>4. Same as above</li> </ol>
<ul style="list-style-type: none"> <li>- Hard-to-serve PAU</li> </ul>	<ol style="list-style-type: none"> <li>1. Award additional points to applicants that commit to serving CAIs within the submitted PAU (<i>AT&amp;T</i>)</li> <li>2. Applicants should first demonstrate if a subset would increase total cost in engage in evaluation of high-cost outliers to consider if they can broken up (<i>OCTA</i>)</li> </ol>	<ol style="list-style-type: none"> <li>1. The current approach to PAUs (as Census Block Groups) captures Ohio’s priorities.</li> <li>2. Same as above</li> </ol>
<ul style="list-style-type: none"> <li>- Treatment of MDU (Multiple dwelling unit)</li> </ul>	<ul style="list-style-type: none"> <li>o Require that any proposed solution from subgrantees bidding on project areas that include MDUs must demonstrate how it will connect all units within an MDU (<i>EducationSuperHighway</i>)</li> </ul>	<ul style="list-style-type: none"> <li>- BroadbandOhio intends to follow the BEAD requirements. Providers who will connect all units in an MDU are encouraged to highlight this plan to community leaders and get community support for their plans. This will enable these providers to get extra points.</li> </ul>
<ul style="list-style-type: none"> <li>- Reference Price</li> </ul>	<ol style="list-style-type: none"> <li>1. Revise reference cost requirements to not immediately disqualify a bid for exceeding the reference cost and instead scores alongside other criteria (<i>Mercury Broadband</i>)</li> <li>2. Request that a cost per unit breakdown to be included in any proposal that contains an MDU BSL to accurately identify the most competitive and cost-effective solution (<i>EducationSuperHighway</i>)</li> <li>3. Do not use CostQuest to set reference cost level (<i>OCTA</i>)</li> </ol>	<ol style="list-style-type: none"> <li>1. The current approach does not disqualify bidders for exceeding the reference cost, as the applicant can receive points for other sub-criteria. BroadbandOhio will make the following modification to</li> </ol>

		<p>the scoring: If all provider bids exceed the reference cost, points will be awarded to the lowest bidder.</p> <ol style="list-style-type: none"> <li>2. The lowest level at which applications will be assessed will be at the project area unit level.</li> <li>3. Ohio plans to use the NTIA provided CostQuest cost modeling data for setting reference costs.</li> </ol>
<p>– Subgrantee process E) Process and plan for EHCPLT</p>		
<p>– EHCPLT setting</p>	<ul style="list-style-type: none"> <li>○ Set aside 5-15% of the most expensive to serve location as EHCPLT, and allow alternative technologies only there (<i>Windstream</i>)</li> <li>○ Set EHCPLT to \$10-15K (<i>Windstream</i>)</li> <li>○ Set EHCPLT before round 2 (<i>OCTA</i>)</li> <li>○ Follow the treasury’s example and set speeds at a level that spurs competition by retaining the standard of at least 100/20 Mbps while encouraging scalability up to 100/100 Mbps (<i>INCOMPAS</i>)</li> <li>○ Set the Extremely High Cost Per location (EHCPL) threshold higher to ensure all technology investments are future-proof (<i>Frontier</i>)</li> <li>○ Instead of the entirety of a project area being considered for technology other than FTTH in EHCT, consider setting aside just EHTC or specifically allowing providers to identify and exclude those EHCT locations (<i>Brightspeed</i>)</li> <li>○ Allow alternative options to be submitted to identify EHCT locations – one proposal with the cost to “serve all” and</li> </ul>	<p>– The feedback provided to BroadbandOhio on the EHCPLT advocates for a range of different approaches for the EHCPLT, as well as asks to make it extremely high (\$10-15K) and low (\$2-4k). Pending NTIA approval, BroadbandOhio plans to use the process for setting the Extremely-High cost per Location threshold described in section 2.4.9 in this draft Initial Proposal.</p>

	<p>then one proposal that identifies the EHCT locations and excludes them from the funding request/budget calculation (<i>Brightspeed</i>)</p> <ul style="list-style-type: none"> <li>○ Provide additional guidance on its process for identifying EHCT areas and how they would be addressed during the application process (<i>Brightspeed</i>)</li> <li>○ Adjust proposed use of EHCPLT to make clear that in areas that exceed the EHCPLT, BROADBANDOHIO will consider proposals to deploy non-fiber Reliable Broadband service technologies (e.g., fixed wireless access) and that only if no Reliable Broadband Service technology proposals are presented for the given area can non-Reliable Broadband Service technologies be considered (<i>CITA</i>)</li> <li>○ Set EHCPLT of \$2000-\$4000 in the second ORBEG-BEAD grant round to encourage participation from all technologies (<i>Upward Broadband</i>)</li> <li>○ Set EHCT higher so that fiber is encouraged – determine amount based on study of long-term value of fiber (<i>CWA</i>)</li> <li>○ Set the EHCPLT based on programmatic data of the remaining locations in need (<i>OCTA</i>)</li> <li>○ Clarify that EHCPLT is not expected to need to be applied (<i>OCTA</i>)</li> <li>○ Allow hybrid-technology bids below EHCPLT for unserved/underserved households (<i>Tarana Wireless</i>)</li> <li>○ Allowing a percentage of locations to be non-fiber in below-EHCPLT fiber areas (<i>Tarana Wireless</i>)</li> <li>○ EHCPLT should be set low for Round 1 (<i>WISPA</i>)</li> </ul>	
<p>– Qualifications A) EHP &amp; BABA</p>		<p>–</p>

<ul style="list-style-type: none"> <li>- EHP &amp; BABA related questions</li> </ul>	<ul style="list-style-type: none"> <li>o Require all BEAD grant applicants to select non-waived products from the NTIA list of vendor compliant Buy America products (<i>Nokia</i>)</li> <li>o Revise the EHP Review requirement to remove or allow for flexibility for barriers that result in timeline delays for ISPs (<i>Frontier</i>)</li> <li>o Do not require EHP requirements when land has already been disturbed due to other infrastructure facilities (<i>Altafiber</i>)</li> </ul>	<ul style="list-style-type: none"> <li>- Pending NTIA approval, BroadbandOhio intends to use the EHP and BABA approach that is defined in 2.4.5 of Ohio’s draft initial proposal. Encourage ISPs to work with NTIA directly on this matter.</li> </ul>
<ul style="list-style-type: none"> <li>- Qualifications B) Financial capabilities</li> </ul>		<ul style="list-style-type: none"> <li>-</li> </ul>
<ul style="list-style-type: none"> <li>- Letter of credit related questions</li> </ul>	<ul style="list-style-type: none"> <li>o Revise requirement to incorporate the content of the BEAD Letter of Credit Waiver (<i>Breezeline, Ohio Telecom Association, Ustelecom, Lit Fiber, AT&amp;T, OCTA</i>)</li> <li>o If BROADBANDOHIO determines a letter of credit is required based on a provider’s financial situation, it be required/issued only at the point in time that the first reimbursement request is made (<i>Brightspeed</i>)</li> <li>o Adopt AT&amp;T’s 2-step “financial health” evaluation (detailed in comment attachment A) instead of subjective letter of credit assessments (<i>AT&amp;T</i>)</li> <li>o Request waiver if subgrantee demonstrates it has over \$100M in production in state (<i>OCTA</i>)</li> <li>o Request waiver on parent guarantees and adopt OCTA’s language (<i>OCTA</i>)</li> <li>o Prepare for scenarios where communities and providers cannot afford to put up a 25% match (<i>WISPA</i>)</li> </ul>	<ul style="list-style-type: none"> <li>- Ohio plans to ask for a waiver to the NTIA letter of credit requirements and use a methodology consistent with HB-33 / ORBEG.</li> </ul>
<ul style="list-style-type: none"> <li>- Matching funds requirement</li> </ul>	<ul style="list-style-type: none"> <li>o Recognize a variety of initiatives (e.g., initiatives to drive adoption, workforce development, digital inclusion, etc.) as in-kind project contributions and allow them to be</li> </ul>	<ul style="list-style-type: none"> <li>- Ohio provides a way to get additional points on workforce. In-kind project</li> </ul>

	included as part of the ISPs 25% matching commitment ( <i>Frontier</i> )	contributions will not be permissible.
– Financial capability requirements	<ul style="list-style-type: none"> <li>○ Refine financial capability requirements to allow for flexibility in and protection of financial documents required for submission and specifically remove any requirements for audited documents (<i>NKTelco</i>)</li> <li>○ Certify that BROADBANDOHIO will apply confidentiality protections to subgrantees’ financial information and trade secrets (<i>NKTelco</i>)</li> <li>○ Refine requirements to ensure anyone with a history of bankruptcy or insolvency does not receive points in this category (<i>NKTelco</i>)</li> </ul>	<ul style="list-style-type: none"> <li>○ BroadbandOhio will ensure proprietary information remains confidential.</li> <li>○ BroadbandOhio will review financial capability requirements and determine which applicants are eligible for participation.</li> </ul>
– Qualifications C) Technical capabilities		
– Engineer certification	<ul style="list-style-type: none"> <li>○ Revise requirements for certification by a Professional engineer (PE) to permit certification by an experienced representative (<i>Brightspeed</i>)</li> <li>○ Allow for “Society of Cable Telecommunication Engineers”-certified in-house (<i>OCTA</i>)</li> <li>○ Consider alternative authorities to Professional Engineer (in similar fashion to FCC’s own rules) (<i>WISPA</i>)</li> </ul>	– BroadbandOhio intends to ask for a waiver for certifications by a professional engineer up front; and instead, only applicants awarded funding will be required to have their design certified by a professional engineer.
– Evidence of other	<ul style="list-style-type: none"> <li>○ Require subgrantees to have at least a 5-year track record of providing broadband services to a substantial number of customers and already deployed 100/100 Mbps broadband</li> </ul>	– BroadbandOhio plans to use the subgrantee qualifications described in the draft, which

broadband projects	service. Applicants lacking track record required to provide a letter of credit in the amount they're requesting from the state ( <i>Windstream</i> )	are consistent with the NTIA BEAD requirements.
<ul style="list-style-type: none"> <li>- Technical capabilities scoring</li> </ul>	<ul style="list-style-type: none"> <li>o Award a greater proportion of points in the “Technical Capabilities” scoring to projects that are end-to-end fiber projects (<i>Frontier</i>)</li> <li>o Clarify how scalability will be measured in the scoring process (<i>CITA</i>)</li> <li>o Add additional scoring criteria for Technical capabilities and award additional points for solutions that provide superior network management practices like superior technical support (<i>EducationSuuperHighway</i>)</li> <li>o Consider partial points for the number of years beyond a single year for minimum years of experience (<i>Lit Fiber</i>)</li> <li>o Technical documentation should include if there is ability to update network to higher speed tier without additional public funds (<i>Tarana</i>)</li> </ul>	<ul style="list-style-type: none"> <li>- The current scoring rubric captures Ohio’s priorities for broadband deployment, which are consistent with the HB-33 legislation.</li> <li>- Please see the description of the scoring rubric “Rating Broadband Service Speed” to understand how scalability will be scored.</li> </ul>
<ul style="list-style-type: none"> <li>- Qualifications D) Construction timetables</li> </ul>		
<ul style="list-style-type: none"> <li>- Construction timetables</li> </ul>	<ul style="list-style-type: none"> <li>o Align with the BEAD 4-year network development timeframe and require any applicants committing to a shorter timeframe to provide evidence of similar projects (<i>Windstream</i>)</li> </ul>	<ul style="list-style-type: none"> <li>- BroadbandOhio plans to use claw-back provisions for areas of non-compliance with contracts, which includes costs for not making agreed timelines for deployment.</li> </ul>
<ul style="list-style-type: none"> <li>- Qualifications E) EHP requirements</li> </ul>		
<ul style="list-style-type: none"> <li>- Environmental reviews</li> </ul>	<ul style="list-style-type: none"> <li>o Limit environmental reviews to what is required by NTIA, remove additional state/local requirements (<i>Windstream</i>)</li> </ul>	<ul style="list-style-type: none"> <li>- BroadbandOhio plans to execute the plan described in the draft Initial Proposal, subject to approval by NTIA.</li> </ul>



– Qualifications F) Speed of Network		
– Network speeds	<ul style="list-style-type: none"> <li>○ Revise speed requirements be revised to mandate that projects with extremely high costs or geography /topography challenges reliably meet or exceed 100/20 Mbps and be scalable to the minimum of symmetrical 100/100 Mbps speeds (<i>INCOMPAS</i>)</li> <li>○ Consider adding speed tiers of service for wireless to ensure selected bids are competitive (<i>INCOMPAS</i>)</li> <li>○ Require subgrantee’s providing alternative technology solutions (e.g., FWA) to prove it can exceed 100/100 Mbps for serving high cost areas (<i>INCOMPAS</i>)</li> <li>○ Award extra points to applicants that go beyond the speed of service requirements and attaining a lower cost per-location within the applied-for funding area(s) (<i>INCOMPAS</i>)</li> <li>○ Do not prioritize symmetrical speed (<i>WISPA</i>)</li> </ul>	BroadbandOhio plans to be consistent with the BEAD requirements on network speeds, as described in the BEAD NOFO. Symmetrical speed is not prioritized. The current scoring rubric captures Ohio’s priorities for broadband deployment, which are consistent with the HB-33 legislation.
– Qualifications G) Optional attachments		
– Disclosure Requirements	<ul style="list-style-type: none"> <li>○ Revise the disclosure requirement to be narrowly tailored to the information essential to evaluate an ISPs experience and technical ability to deploy broadband and comply with grant reporting requirements (<i>Brightspeed</i>)</li> </ul>	– BroadbandOhio plans to be consistent with the BEAD requirements on disclosures regarding experience and technical ability; and will protect/redact any information received.
– Requirement 9 – Description of fair and open non-deployment subgrantee selection		
– Non-deployment activities	<ul style="list-style-type: none"> <li>○ Revise IP to provide for significant investments in affordable connectivity within HUD-assisted affordable housing communities (<i>POAH</i>)</li> </ul>	<ul style="list-style-type: none"> <li>○ BroadbandOhio will follow NTIA requirements which prioritize providing</li> </ul>

	<ul style="list-style-type: none"> <li>○ Ensure that all HUD-assisted housing organizations (not only addition to Public Housing Organizations) are eligible for BEAD support on the basis of their CAI status (<i>POAH</i>)</li> <li>○ Ensure subgrantees will dedicate resources to marketing and public awareness campaigns, one option is to require subgrantee applicants recognize requirement in grant applicants and provide an anticipated pat for how requirements will be met (<i>FairlawnGig</i>)</li> <li>○ Require identification of marketing resources and a basic marketing plan provided upon award (<i>FairlawnGig</i>)</li> </ul>	<p>universal coverage.</p> <ul style="list-style-type: none"> <li>○ The definition of CAIs was part of the Initial Proposal Volume I, which has already been completed.</li> <li>○ While the identification of marketing resources is not required, providers will be encouraged to submit a link to their marketing materials annually when they provide BroadbandOhio with their pricing sheet (which will be published on BroadbandOhio’s website to promote consumer pricing benchmarks).</li> </ul>
<p>– Requirement 11 - Description of how Ohio will integrate labor standards and projections into requirements of prospective subgrantees</p>		

<p>– Labor standards mandate</p>	<ul style="list-style-type: none"> <li>○ Require applicants to provide data regarding their Workforce Plan, including information on training and safety, job quality, local hire and targeted hire, accountability and subcontracting practices, and ongoing operational workforce (CWA)</li> <li>○ Make workforce Plans and labor commitments enforceable and publicly disclosed on a website or online portal (CWA)</li> <li>○ Require that job quality considerations are integrated into workforce development strategies. Workers and their unions are an expert resource for program design (CWA)</li> <li>○ Require BROADBANDOHIO to have periodic and random site visits (CWA)</li> <li>○ Update labor protection requirements to mandate BEAD guidance’s list of 2.7.2 labor standards for BEAD grantees/subgrantees (IBEW)</li> <li>○ Req 8 Fair Labor Practices: The comment requests Ohio should consider in-house training in Fair Labor Practices criteria similar to apprenticeships (CWA)</li> <li>○ Req 8 Fair Labor Practices: The comment requests Ohio incorporate high road labor factors including directly hired workforce, ensure jobs with quality wages for deployment and ongoing operations (CWA)</li> <li>○ The comment requests that BEAD outlay scoring includes resiliency strategies included in CPUC. (CWA)</li> <li>○ The comment urges BROADBANDOHIO to set EHCT as high as possible to encourage fiber usage and consider studies on long-term value of fiber. (CWA)</li> <li>○ The comment requests BROADBANDOHIO to conduct comprehensive monitoring such as periodic random site visits and require “as-built” documentation. (CWA)</li> </ul>	<p>BroadbandOhio thanks the commentor for the feedback. BroadbandOhio is also committed to having a robust and strong workforce. In partnership with the Governor’s Office for workforce transformation, BroadbandOhio has released the premier 5G and Broadband workforce development strategy in the country. BroadbandOhio believes the existing workforce strategy effectuates the priorities described in the public comment submission.</p> <p>Regarding the components of the workforce plan, the information described will be requested. BroadbandOhio will adopt the NTIA’s minimum labor practices.</p>
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	<ul style="list-style-type: none"> <li>○ The comment requests applicants to disclose workforce plans and practices in a publicly available way (CWA)</li> <li>○ The comment recommends BOH consider workforce representations as legally binding (CWA)</li> <li>○ The comment recommends BOH incorporate disclosure requirements on locally based workforce in subgrantee process (CWA)</li> <li>○ The comment recommends BOH incorporate disclosure requirements on ongoing operational workforce (CWA)</li> <li>○ The comment provides general recommendations for all programs related to training, job quality, local/targeted hire, accountability and subcontracting (CWA)</li> </ul>	
– Requirement 12 – Description of how Ohio and subgrantees will ensure an available, diverse, and highly skilled workforce		
– Workforce readiness	<ul style="list-style-type: none"> <li>○ Direct BEAD funding to training for personnel who locate underground facilities pursuant to Ohio811 requests (Columbia Gas of Ohio and Dominion East Ohio)</li> <li>○ Direct BEAD funding to address locating issues related to fiber deployment – specifically, education and workforce development for both fiber deployment companies and underground infrastructure owners (Columbia Gas of Ohio and Dominion East Ohio)</li> <li>○ Dedicate additional BEAD funding towards workforce initiatives (AEP)</li> </ul>	Ohio is dedicating ~\$50M in BEAD funding toward the Governor’s Office of Workforce Transformation Broadband and 5G strategy and programming. All providers are welcome to participate in that programming. Ohio also intends to create workforce plans to address other ongoing barriers to deployment.
– Requirement 14 – Identification of steps to reduce costs and barriers to deployment		
– Cost and barrier reduction	<ul style="list-style-type: none"> <li>○ Establish a broadband-ready community program designed to reduce barriers and build local support for broadband expansion and adoption (Windstream)</li> <li>○ Designate an internal point of contact to maintain and oversee a database containing information submitted by each broadband-ready community (Windstream)</li> </ul>	– BroadbandOhio will continue to explore ways to work with communities to eliminate barriers to deployment, including through existing

	<ul style="list-style-type: none"> <li>○ Address causes of delays for providers including permitting, fee processing, locating, allowing for more plowing, establishing rules for timelines and costs for getting pole agreements and access poles in place (<i>Mercury Broadband, INCOMPAS</i>)</li> <li>○ Encourage local jurisdictions to expedite permitting, allow applicants to submit applications in batches (<i>INCOMPAS</i>)</li> <li>○ Evaluate needs in cities and towns that need financial assistance to upgrade technology for speeding permitting processes and cover reasonable costs by BEAD program funding (<i>INCOMPAS</i>)</li> <li>○ Work with OH 811 One Call Center local authorities to evaluate their process to address barriers to deployment regarding the underground utility locates process (<i>INCOMPAS</i>)</li> <li>○ Make clear that awarded grants are conditioned upon grantees permitting competitors reasonable, fair, and non-discriminatory access to their owned and managed utility poles (<i>INCOMPAS</i>)</li> <li>○ Implement a “broadband Ready City” checklist to help guide cities, counties, and all local municipalities (comment lists detailed suggestions) (<i>INCOMPAS, WISPA</i>)</li> <li>○ Identify where there are current gaps, including training employees, reviewing processes that can be expedited by investing in tech upgrades, and coordinating between agencies/managers of rights-of-way (<i>INCOMPAS</i>)</li> <li>○ Review or enact guidelines that enable faster processing to allow the deployment of broadband infrastructure more quickly, covering small cells and other wireless equipment and fiber (<i>INCOMPAS</i>)</li> </ul>	<p>programs like the Accelerator program.</p>
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<ul style="list-style-type: none"> <li>- Reimbursement</li> </ul>	<ul style="list-style-type: none"> <li>o Follow a monthly reimbursement payment framework for BEAD (<i>Windstream</i>)</li> <li>o Make all capital expenditures eligible for reimbursement, including middle mile infrastructure, even if outside of the project area if critical to the project (<i>Windstream</i>)</li> <li>o Structure the Distribution of Funds to Subgrantees by modeling the practices of other states and capital project fund programs and design a process for reimbursement on a monthly or quarterly basis (<i>Frontier</i>)</li> <li>o Clarify reimbursement and compliance requirements by ensuring that the cost principle rules would not apply as compliance requirements of subawards (<i>Brightspeed</i>)</li> <li>o Revise the proposal to include a request that BEAD dollars be dedicated to endeavors outlined in the U.S. Department of Commerce’s guidance for IPs which lists items that can be shown to satisfy requirement 14 (<i>Columbia Gas of Ohio and Dominion East Ohio</i>)</li> <li>o Create a mechanism to reimburse make-ready and costs with BEAD funds (<i>AEP</i>)</li> </ul>	<ul style="list-style-type: none"> <li>- BroadbandOhio plans to use the reimbursement guidelines (e.g. eligible uses) and methodology of ORBEG, as described in HB-33, and BEAD as described in the BEAD requirements.</li> <li>-</li> <li>- BroadbandOhio intends to follow the latest NTIA guidance on subawards, which may include allowances for fixed amount subawards; and also, to be as aligned as possible with the milestone payment approach of the ORBEG program</li> </ul>
<ul style="list-style-type: none"> <li>- Requirement 15 – Description of weather and climate risks to new broadband infrastructure</li> </ul>		
<ul style="list-style-type: none"> <li>-</li> </ul>	<ul style="list-style-type: none"> <li>o Consider fixed wireless access as part of overall green strategy (<i>WISPA</i>)</li> </ul>	<ul style="list-style-type: none"> <li>- BroadbandOhio thanks the commenter for the feedback. Regarding technology preferences, BroadbandOhio will remain in alignment with the BEAD prioritization requirements.</li> </ul>
<ul style="list-style-type: none"> <li>- Requirement 16 – Description of low-cost service options and middle-class affordability plan and certification that all subgrantees will participate in the Affordable Connectivity Program or any successor program</li> </ul>		

<ul style="list-style-type: none"> <li>- Low-cost service option details (1/2)</li> </ul>	<ol style="list-style-type: none"> <li>1. Remove the language of “no cost” and instead say “at no more than a commensurate price increase” to the provisions regarding the subscriber’s ability to upgrade to any new low-cost service plans offering, comment includes specific language (<i>Charter</i>)</li> <li>2. Remove mandated or set rates and instead that the state assesses whether or not the provider is offering affordable rates to non-ACP customers by comparison to the FCC’s or Urban Rate benchmarks (<i>Brightspeed</i>)</li> <li>3. Revise pricing requirements to allow provider flexibility with pricing, consider allowing once yearly pricing adjustments (<i>Brightspeed, Ustelecom, AT&amp;T</i>)</li> <li>4. State that should ACP not continue to be funded, ISPs are not expected to design and implement their own standard income verification tool but should be permitted to access a standard verifier to determine the eligibility of customers to receive a low-income program offer (<i>Brightspeed</i>)</li> <li>5. Remove requirement of specific price points to encourage provider participation (<i>Ohio Business Roundtable, Buckeye Institute, Ohio Chamber of Commerce</i>)</li> <li>6. Include network management practices as part of the minimum criteria of the Recommended Service Plan (e.g., requirement for outage credits to the consumer) (<i>EducationSuperHighway</i>)</li> <li>7. Allow pre-existing low-cost plans to be grandfathered (<i>OCTA</i>)</li> </ol>	<p>BroadbandOhio plans to utilize the model low-cost service option provided by NTIA which has a \$30 per month plan and will incorporate one modification: providers will be allowed annual price increases commensurate with the consumer price index.</p> <ul style="list-style-type: none"> <li>- Response to (4): In the event that ACP is not renewed, the Broadband Expansion Program Authority will make a determination as to who is eligible for low-cost option in Ohio and the low-cost option will apply to those residents. BroadbandOhio and Department of Development will work to ensure there is a mechanism to verify eligibility.</li> </ul>
<ul style="list-style-type: none"> <li>- Low-cost service option details (2/2)</li> </ul>	<ul style="list-style-type: none"> <li>o Remove \$30/month or less language from low-cost broadband service option and instead allow applicants to meet requirement by abiding by the FCC’s “reasonable comparability” rate benchmarks (<i>Charter, UStelecom, Altafiber</i>)</li> <li>o Provide additional clarification of whether or not the low-cost service option of \$30 applies only to ACP-qualified customers (<i>Brightspeed</i>)</li> </ul>	<ul style="list-style-type: none"> <li>- BroadbandOhio plans to utilize the model low-cost service option provided by NTIA which has a \$30 per month plan and will incorporate one modification: providers will be allowed annual price</li> </ul>

	<ul style="list-style-type: none"> <li>○ If using defined rate, using \$70 consistent with other states (<i>OCTA</i>)</li> <li>○ If using defined rate, clarify that plan accurately reflects changes in price that may have occurred between BEAD rules and when service commences (<i>OCTA</i>)</li> <li>○ Require providers to meet only one of the two Charter proposed commitments outlined below and to remove language of price maintenance requirements (<i>Charter</i>)</li> <li>○ “consistent with the broadband pricing the applicant makes available in unsubsidized areas within Ohio for the same or substantially the same level of service, for providers already serving the State”; or</li> <li>○ “no higher than the residential rates provided in the Federal Communications Commission’s (FCC’s) U.S. reasonable comparability benchmark calculated annually in the fixed broadband Urban Rate Survey (URS) for the provider’s service tiers, or the service tier most closely approximating such service tier if the URS does not include the provider’s specific service tier(s).”</li> </ul>	<p>increases commensurate with the consumer price index.</p>
<ul style="list-style-type: none"> <li>– Supply Chain Risk Management (SCRM)</li> </ul>	<ul style="list-style-type: none"> <li>○ Clarify methodology for organizing and evaluating subgrantee’s SCRM plan with a SCRM checklist for specific requirement (<i>TIA</i>)</li> <li>○ Take a uniform, industry-led approach to security (e.g., requests that the state maps security requirements for BEAD funding to SCS 9001 to allow EEs to manage the NOFO’s auditing obligation) (<i>TIA</i>)</li> </ul>	<ul style="list-style-type: none"> <li>– BroadbandOhio plans to use the NTIA required standards for SCRM but welcomes provider to additionally leverage industry standards to security which meet or surpass the NIST standards. And will work with you to be in compliance with the standard.</li> </ul>
<ul style="list-style-type: none"> <li>– Requirement 19 – Certification of Ohio’s intent to comply will requirements of BEAD program and description of subgrantee accountability procedures</li> </ul>		



<ul style="list-style-type: none"> <li>- Requirements</li> </ul>	<ul style="list-style-type: none"> <li>o Clarify duration of BEAD reporting period to be 4 years (OCTA)</li> </ul>	<ul style="list-style-type: none"> <li>- Sub-grantees are required to provide evidence that build-out is complete and that service has been initiated within four years of the date on which the entity receives the subgrant</li> </ul>
<p>- Requirement 20 – Description of a middle-class affordability plan</p>		
<ul style="list-style-type: none"> <li>- Affordability requirements</li> </ul>	<ul style="list-style-type: none"> <li>o Revise the affordability requirement to only require participation in ACP for requirements related to BEAD funding; and to advocate for continued funding (<i>Windstream</i>)</li> <li>o Revise the middle-class affordability requirement to require applicants to confirm that their rate of proposed rates for broadband service in a BEAD-funded area are comparable to rates charged in non-BEAD areas where there are multiple broadband providers (<i>Ustelecom</i>)</li> <li>o Remove any requirement of service to be offered at specified rates (<i>Usteleocm</i>)</li> <li>o Revise pricing requirements to allow provider flexibility to adjust future pricing (<i>AT&amp;T</i>)</li> <li>- Satisfy requirement by ensuring pricing is consistent with unsubsidized areas or no higher than FCC’s reasonable comparability benchmark on URS (OCTA)</li> </ul>	<ul style="list-style-type: none"> <li>- BroadbandOhio’s approach is to create a benchmark of the statewide average. Points will be awarded based on the benchmark; however, providers will be compared only to other providers within the same CBG.</li> </ul>

# Appendix 1. BEAD Five-Year Action Plan, Stakeholder Engagement: Key Takeaways

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Below includes the BEAD Five-Year Action Plan, 5.1.4. Stakeholder Engagement, Key Takeaways. This content is identically described in Ohio’s BEAD Five-Year Action Plan, submitted to NTIA on June 27, 2023. It has been included in this Initial Proposal to fulfill Requirement 2: Local, Tribal and Regional Broadband Planning Processes (2.2.1), per the Guidance provided by the NTIA.<sup>251</sup> All other parts of the Five-Year Action Plan, 5.1: Stakeholder Engagement has been incorporated in this document above.

## 5.1.4 Key takeaways

The three surveys issued as part of the BEAD-DE stakeholder engagement process are still in the market, so the insights below come from in-person and virtual listening sessions and state agency interviews. The remainder of this section refers to information gathered at the listening sessions. State agency insights have been incorporated elsewhere in this plan, and collaboration with these parties is ongoing;

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<sup>251</sup> NTIA BEAD Initial Proposal Full Guidance, page 29: “An Eligible Entity that has already completed its Five-Year Action Plan may directly copy its Stakeholder Engagement Process (Requirement 7 in the Five-Year Action Plan) into the Initial Proposal to satisfy this requirement [Requirement 2].”

survey response data will be incorporated into the State Digital Opportunity Plan and the BEAD Initial Proposal.

## Takeaways by entity type

Insights that were consistent across all regions include the following:

1. Across the state, residents' access to broadband options (such as fixed wireless and fiber) vary, as do broadband costs. Contributing factors to these differences include complex regional topography, which inhibits certain broadband infrastructure options, and dated infrastructure, which hinders speed and reliability (often due to inclement weather conditions' affecting the infrastructure).
2. Lack of broadband infrastructure contributes to a gap in reliable and affordable internet options for households. Residents experience extremely high broadband installation fees (e.g., over \$1000 for line extension fees described in outreach to BroadbandOhio) and monthly costs, as well as frequent service disruptions. As a result, some residents opt out of purchasing internet service and travel to locations outside their homes to access the internet.
3. Residents' daily life is often disrupted by unreliable internet access. They often struggle to get consistent, affordable internet that can support multiple users. Particularly impacted groups include remote workers, students, families, and farmers.
  - Residents often travel to libraries or other public places to access the internet.
  - Some residents rely on hotspots or connections with limits on data usage, making activities that require additional bandwidth or high amounts of data expensive or unfeasible.
4. Lack of workforce capacity and connectivity infrastructure inhibits the deployment of broadband programs. Local organizations lack the capacity and resources to apply for and deploy broadband programs. (For example, they may lack the time to complete program applications, or they may not have sufficient digital support staff.) Additionally, many existing broadband networks cannot adequately support

new programs; for example, limited at-home networks cannot support additional devices that would be provided in device roll-out initiatives.

5. Digital navigators can promote community trust and facilitate digital adoption. Lack of institutional trust limits the effectiveness of benefits programs (such as the ACP) and programs to lend or give devices. Trusted digital navigators and community organizations (such as school districts and senior centers) can help to explain the ACP clearly and provide support with the complex application process. Word of mouth among community members is highly effective in spreading awareness of the ACP and other digital benefits programs.

The below tables provide detailed findings by stakeholder entity type and by region. These findings will be combined and incorporated into the BEAD Five-Year Action Plan.

Table 20: Key findings: ISPs and private businesses

Topic	Findings
Barriers	<p>Permitting/right of way</p> <ul style="list-style-type: none"> <li>- Railroads and pole attachments are a drain on time and investment for providers across the state.</li> <li>- Pole permits can take up to 18 months.</li> <li>- Make-ready costs can be so high that it is cheaper to go underground, which can put other utilities (gas, water) at risk.</li> </ul> <p>Materials</p> <ul style="list-style-type: none"> <li>- Costs associated with timelines, permitting, etc. are exacerbated by American-made requirements.</li> <li>- Labor</li> <li>- The labor shortage will likely worsen.</li> <li>- Three challenges affect labor: 1) there is an insufficient number of training programs; 2) the industry is not marketed enough as a viable career option; 3) training people now will not provide enough people to meet demand, nor will it train them fast enough for this work. Hiring is already difficult, and all funds have not yet arrived.</li> <li>- Challenges described by smaller providers</li> <li>- Match requirements (Grants and letters of credit would help.)</li> </ul> <p>Technology</p> <ul style="list-style-type: none"> <li>- Opinions vary on whether deployment should be almost 100 percent fiber, or if it should be a mix of fiber and wireless.</li> </ul>

Topic	Findings
	<p>Device quality</p> <ul style="list-style-type: none"> <li>– Outdated devices do not meet users’ needs and can be even more complex than new ones – which is especially a problem for people who are not digitally savvy.</li> </ul> <p>Affordability</p> <ul style="list-style-type: none"> <li>– The uptake on the ACP has been low, despite ISP-driven marketing. Information must come from a <b>trusted source</b> (such as digital navigators) to alleviate concerns.</li> <li>– E-rate barriers restrict what ISPs can do in schools to promote ACP.</li> <li>– Individuals who cannot afford to upgrade devices struggle to complete tasks using outdated technology (job applications, standardized tests, etc.).</li> <li>– Fear of technology deters some populations from adopting digital tools; they have concerns about spying, sales scams, etc.</li> <li>– Some are concerned about ACP ending. Generating trust among skeptical populations is difficult when the program could cease to exist.</li> </ul>
Programs and partners	<p>ACP outreach</p> <ul style="list-style-type: none"> <li>– ISPs are working with third parties to share information about ACP to families who participate in the free lunch program.</li> <li>– Local, in-person events are most effective, for example “Turkey Tech Tailgate” (door knocking doesn’t work).</li> </ul> <p>Digital navigators</p>

Topic	Findings
	<ul style="list-style-type: none"> <li>- Digital navigators can assist with ACP awareness and applications as well as with digital literacy. They can also encourage safe adoption, installation, and use of technology.</li> </ul>
Potential solutions and collaboration	<ul style="list-style-type: none"> <li>- Develop a “best practice” guide to help ISPs</li> <li>- Work with Society of Cable Telecommunications and retired telecom workers as instructors in workforce training programs</li> <li>- ISPs are enthusiastic about “digital navigators.”</li> <li>- BBOH/ODOT’s streamlining permit process via centralization has had a positive impact.</li> </ul>

Table 21: Key findings: local government

Topic	Findings
Barriers	<ul style="list-style-type: none"> <li>– Municipalities historically could not apply for funding (ORBEG); BEAD criteria will remedy this.</li> <li>– Rural areas have a nearly impossible financial case to make to ISPs when pitching areas with low population density.</li> <li>– The BEAD match requirement is a barrier for small, low-income communities; they could not pay back even a 0 percent interest loan.</li> <li>– Broadband not only benefits citizens but also presents an opportunity to streamline operations and make the city more efficient (For example, providing utility bills online can reduce a city’s administrative work by half – especially in cities like Dayton, which has duplicative systems.)</li> <li>– Barriers are largely determined by whether the community is rural or urban; rural communities often lack availability, while urban entities are more concerned about affordability and digital skills.</li> <li>– Both rural and urban areas lack providers of fast, reliable internet and/or affordable options. They feel that they are at the mercy of one provider and have no leverage.</li> </ul>
Programs and partners	<ul style="list-style-type: none"> <li>– PCs for People is available in some areas, but other areas have mainly recycled devices that cannot be refurbished.</li> <li>– PPPs are generally the best way for municipalities to get involved with infrastructure grants, but the challenge is having a sufficient subsidy to attract private entities.</li> <li>– Most schools provide devices, but a single device and/or hotspot often cannot meet an entire family’s needs.</li> </ul>



Topic	Findings
Potential solutions and collaboration	<ul style="list-style-type: none"> <li>– A “broadband-ready guide” to help municipalities make their community more attractive to providers.</li> <li>– Alternate ways for PPPs to meet the matching requirement, including waivers, grants, or allowing ISP to match via in-kind services such as digital training</li> <li>– Allowing municipalities to apply for grants (solved)</li> </ul>

Table 22: Key findings: Non-profits and community organizations

Topic	Findings
<ul style="list-style-type: none"> <li>– Barriers</li> </ul>	<ul style="list-style-type: none"> <li>– Deployment</li> <li>– Community stakeholders expressed concern that the broadband maps show a significant number of locations as served that are truly unserved. Very few internet companies are deploying or delivering broadband in rural areas, due to the high costs and low return on investment.</li> <li>– Topography</li> <li>– Rural areas’ topography was cited as a barrier to broadband access and limits these areas’ options among ISPs and internet services. Additionally, within neighborhoods internet connectivity often varies, leaving some homes without service.</li> <li>– Outdated infrastructure</li> <li>– Much of the physical infrastructure (such as poles and wiring) across the state was installed years ago and was not built to support today’s high-bandwidth, high-speed broadband service. Additionally, this outdated infrastructure often cannot withstand the impact of inclement weather.</li> </ul>

Topic	Findings
	<ul style="list-style-type: none"> <li>– Digital literacy</li> <li>– For aging populations, limited digital literacy prevents broadband adoption due to fear of technology and lack of comfort with certain digital services (such as banking and healthcare). Additional technical support is required to help with digital navigation, online fraud awareness, and device utilization.</li> <li>– Labor shortages</li> <li>– A shortage of substitute teachers prevents full-time teachers from attending digital skills training offered by community organizations.</li> <li>– Lack of resources</li> <li>– Significant time, training, and other resources are required to improve digital adoption and literacy. Organizations noted that their greatest barrier is the time and support required to provide effective digital training.</li> <li>– Residents regularly require digital assistance or support outside traditional working hours. Individuals who work full-time jobs are sometimes unable to access programs or in-person support that are offered during the traditional workday.</li> <li>– Local organization leaders also noted that a lack of expertise in digital inclusion is a barrier to broadband program deployment. Participants said they were unaware of the broadband programs and subsidies available to the communities that they serve.</li> <li>– Community outreach</li> <li>– Community organizations noted that barriers to more widespread adoption of programs included the inability to reach all residents who need support, a lack of trust among residents, and an inability to meet residents where they are physically located.</li> </ul>

Topic	Findings
	<ul style="list-style-type: none"> <li>- Transportation</li> <li>- Transportation is a major barrier to internet access in some areas. Convenient transportation is often lacking, making it difficult for residents to access community anchor institutions for internet service.</li> </ul>
<ul style="list-style-type: none"> <li>- Programs and partners</li> </ul>	<ul style="list-style-type: none"> <li>- Access</li> <li>- During COVID, school districts across the state provided students with Chromebooks and hotspots to increase internet access (by placing school buses with hotspots in parking lots throughout the district, for example).</li> <li>- A local workers' union has created programs to boost adoption of broadband in rural areas. They have also purchased laptops to lend to the aging Ohioans.</li> <li>- The Ohio Connectivity Champions support residents in applying for the ACP and registering for the Northstar Digital Literacy Project.</li> <li>- The Management Council has digital navigators who regularly go to community spaces (such as jail lobbies and community centers) to help residents sign up for ACP and connect to the internet.</li> <li>- The Financial Opportunities Center (FOC) has the UNIFI Digital Connectivity Program, a four-pronged digital connectivity program consisting of: <ul style="list-style-type: none"> <li>- A lending library that lends laptops, hotspots, and tablets to local organizations (City Mission of Findlay, Women's Resource Center, and NAMI)</li> <li>- ACP enrollment support services</li> <li>- Digital literacy services to walk clients through tailored, customizable courses related to digital literacy, skills, and device use.</li> </ul> </li> </ul>

Topic	Findings
	<ul style="list-style-type: none"> <li>– An online resource center.</li> <li>– Devices</li> <li>– School districts in rural regions purchase devices (such as Chromebooks) for students to facilitate their learning.</li> <li>– The Management Council piloted a program to lend Chromebooks and hotspots to low-income individuals.</li> <li>– The Ohio State University Extension received a grant for 25 iPads that can be distributed to students in a national youth program.</li> <li>– They use a train-the-trainer model in which trusted trainers go out into the community and support older adult business owners who are interested in integrating more technology into their business operations.</li> <li>– They also offer a program to teach business owners about QuickBooks’ transition into a cloud-based platform.</li> <li>– The Ability Center of Greater Toledo used CARES Act funding to stand up a digital device-lending program that provides tablets to clients and community members.</li> <li>– The Education Service Center of Central Ohio purchases devices in bulk (such as Chromebooks) to lend to schools that cannot afford them. Additionally, they coordinate bulk purchasing across multiple school districts so that schools can receive better pricing on their devices.</li> <li>– Digital skills</li> <li>– The Management Council has conducted digital literacy classes for aging residents, low-income residents, and incarcerated populations ahead of re-entry.</li> </ul>

Topic	Findings
	<ul style="list-style-type: none"> <li>– The Ohio Consumer Counsel is promoting programs that offer digital literacy and training to people in underserved communities.</li> <li>– The Education Service Center of Central Ohio offers programs to digitally develop teachers’ skills in under-resourced areas.</li> <li>– Smart Columbus provides multiple digital navigator programs.</li> <li>– The Ohio Small Business Development Center (SBDC) offers training in digital skills and internet safety.</li> <li>– The Toledo Lucas County Public Library (TLCPL) recently began the Northstar Digital Literacy Project, a free digital skills program for all community members with a library card.</li> </ul>
<ul style="list-style-type: none"> <li>– Potential solutions and collaboration</li> </ul>	<ul style="list-style-type: none"> <li>– Access</li> <li>– Expand program offerings and resources at community nonprofits to offer standardized digital readiness and digital skills programs</li> <li>– Provide internet services in places like churches that have built-in services and community leaders whom residents can utilize for assistance</li> <li>– Ensure that community anchor institutions with broadband access are strategically placed and accessible by foot (within a 10-15-minute walking distance, for example), particularly for rural regions with limited transportation options</li> <li>– Set up centrally located access points for residents to connect to the internet in trusted locations (such as firehouses, gas stations, schools, and senior centers) within each community</li> <li>– Use physical materials (such as paper copies) alongside digital materials to ensure that local organizations can share resources with residents</li> </ul>

Topic	Findings
	<ul style="list-style-type: none"> <li>– Programming</li> <li>– Offer more in-home digital literacy and skills programs to facilitate accessibility (by saving travel time, removing transportation barriers, and offering greater comfort, for example), especially for older populations and individuals with disabilities</li> <li>– Provide technological support and digital literacy resources through multiple channels (in-person, telephone-guided, and digitally) to facilitate accessibility and individual service</li> <li>– Implement peer-to-peer connection and grassroots efforts to support the roll-out of digital navigation, literacy, and device programs</li> <li>– Social determinants of health</li> <li>– Address data interoperability issues and data-sharing processes alongside broadband initiatives. Survey participants noted that, for industries using technological tools (such as electronic health records in healthcare), residents sometimes have difficulty sharing data across tools. Tackling this issue may also help to address some of the social determinants of good health.</li> <li>– Promote partnerships between local broadband-related organizations and health networks to create digital training courses in health navigation.</li> </ul>

Table 23: Key findings: Ohio residents

Topic	Findings
– Barriers	– Physical infrastructure

Topic	Findings
	<ul style="list-style-type: none"> <li>– In rural regions, residents noted that the topography and old physical infrastructure contribute to deployment issues. Much of the equipment and physical infrastructure does not function consistently in some weather conditions.</li> <li>– Residents have to rely on multiple sources of internet services given the instability of their home internet.</li> <li>– Access</li> <li>– Families must take turns using their internet services, sometimes obligating them to travel to locations with public Wi-Fi (such as libraries). More access to public Wi-Fi is needed for community members.</li> <li>– Increased access to task-appropriate devices (such as laptops and tablets) would enable additional educational opportunities and broadband-related training.</li> <li>– Lack of resources</li> <li>– Residents noted that a lack of resources inhibits digital skills development, given the significant amount of time, training, and other resources (such as one-on-one training) required to improve digital literacy and skills.</li> <li>– Mistrust of government</li> <li>– In some communities, broadband and device adoption is limited by mistrust of institutions.</li> <li>– For the ACP and device-lending programs, community members sometimes assume that devices come with a “catch” (that is, they are not actually free) or will be used in exploitative or predatory ways (such as spying).</li> </ul>

Topic	Findings
<ul style="list-style-type: none"> <li>- Programs and partners</li> </ul>	<ul style="list-style-type: none"> <li>- Access</li> <li>- The Ohio Connectivity Champions support residents in applying for the ACP.</li> <li>- The Toledo Lucas County Public Library founded the Greater Toledo Digital Equity Coalition (GTDEC), which has over 50 members representing various community and professional organizations.</li> <li>- The Cleveland Metropolitan School District (CMSD) offers a program to provide internet access, devices, and software for students and their families. For students graduating or aging out of the program, CMSD has partnered with PCs for People to provide refurbished devices and assist families with applications for the ACP.</li> <li>- The CMSD also spreads awareness and information about the ACP to its students and their families through various distribution channels (such as social media, posters, the school library, and notes to parents).</li> <li>- The Digital Inclusion Program at the Cuyahoga Metropolitan Housing Authority (CMHA) shares information about the ACP at community-based events by deploying digital navigators into the community.</li> <li>- Devices</li> <li>- Local school districts provide digital devices, such as Chromebooks, to students.</li> <li>- Libraries provide hotspots for residents to borrow or to serve as public Wi-Fi access points, which are especially popular with students.</li> <li>- Employers provide laptops and hotspots to allow for remote work.</li> </ul>



Topic	Findings
	<ul style="list-style-type: none"> <li>– Digital skills</li> <li>– Rhodes State College offers digital literacy classes for individuals learning how to use certain devices.</li> <li>– Some small businesses provide technical and digital skills training to clients.</li> <li>– Digital skills courses are offered at senior facilities within the Cleveland community.</li> <li>– ASC3’s digital navigator program helps participants apply digital training and learning in real-world environments.</li> </ul>
<ul style="list-style-type: none"> <li>– Potential solutions and collaboration</li> </ul>	<ul style="list-style-type: none"> <li>– Access</li> <li>– Leverage the positioning of community anchor institutions (such as hair salons, laundromats, and coffee shops) for outreach and program delivery</li> <li>– Leverage community-based ISPs to ensure that community members are engaged in broadband decision-making</li> <li>– Use both physical (such as paper copies) and digital materials to ensure that local organizations can share resources with residents across multiple channels.</li> <li>– Develop comprehensive strategies for digital literacy and navigation programming to address barriers to access (by taking such steps as providing shuttle buses to training to address transportation barriers)</li> <li>– Form additional partnerships with farm technology companies in rural areas to help distribute targeted information to rural residents and farmers.</li> <li>– Programming</li> </ul>

Topic	Findings
	<ul style="list-style-type: none"> <li>– Design a variety of digital training and program offerings to provide training tailored to the needs of specific subpopulations (such as students, working adults, and seniors).</li> <li>– Use one-on-one digital training methods to meet residents’ specific needs for digital literacy and technological support.</li> <li>– Leverage a train-the-trainer model with trusted community leaders to provide additional training on digital skills and cybersecurity to increase adoption.</li> <li>– Implement additional device-sharing and device literacy programs in partnership with schools, libraries, and community centers.</li> <li>– Open grant eligibility to local governments to allow for more informed, targeted broadband expansion</li> <li>– Improve messaging and community awareness on the benefits of digital skill programs</li> <li>– Provide more flexible funding for residents in programs like ACP so that they can buy gently used devices, which may make high-quality devices more affordable</li> <li>– Promote access to devices at cheaper cost by purchasing them in bulk at a discount for schools or organizations to rent</li> <li>– Resources</li> <li>– Ensure that community nonprofits providing public-facing services and programming have adequate Wi-Fi equipment (such as routers and modems) and internet access to enable digital participation in their services (such as medical clinic services, training, and live-streaming of meetings)</li> </ul>

Topic	Findings
	<ul style="list-style-type: none"><li>– Providing additional funding for trusted digital navigators and key community leaders could raise awareness of programming.</li></ul>

## Takeaways by region

Table 24: Key findings by listening session location

Region	Findings
Mt Gilead (Central)	<p style="text-align: center;">Permitting/right of way</p> <ul style="list-style-type: none"> <li>– Right-of-way codes vary by city and can delay ISP efforts to expand broadband infrastructure, which is particularly challenging for railroads and state waterways.</li> </ul> <p style="text-align: center;">Affordability</p> <ul style="list-style-type: none"> <li>– Uptake on ACP has been low, despite ISP-driven marketing. Information needs to come from a trusted source (such as digital navigators) to alleviate concerns.</li> <li>– E-rate barriers restrict what ISPs can do in schools to promote ACP.</li> <li>– Individuals who cannot afford to upgrade devices struggle to complete tasks (such as job applications and standardized tests) using outdated technology.</li> </ul> <p style="text-align: center;">Digital skills/literacy</p> <ul style="list-style-type: none"> <li>– Subscribers do not know what upload/download speeds they need and do not understand whether their issues come from service problems or their router’s placement, leading them to overpay for services or preventing them from taking advantage of digital tools.</li> <li>– Fear of technology deters some populations from adopting digital tools.</li> </ul>
	<ul style="list-style-type: none"> <li>○ ACP outreach</li> </ul>

Region	Findings
	<ul style="list-style-type: none"> <li>- ISPs work with third parties to share information about ACP with families who participate in the free lunch program.</li> <li>- Device giveaways have been tested, but they create new issues: users do not always get devices that take gig service, or they don't know how to use the device and might sell it instead.</li> <li>- Local, in-person events are most effective – for example, the “Turkey Tech Tailgate” event.</li> <li>- Digital navigators can assist with ACP awareness and applications and with digital literacy. They can encourage safe adoption, installation, and use of technology.</li> </ul>
	<ul style="list-style-type: none"> <li>- Given the lack of standardization in right-of-way codes, ISPs could collaborate on a best-practice code that BBOH can share locally.</li> <li>- Expand the numbers of “digital navigators” who have a local presence and are trusted; these navigators should not be associated with ISPs.</li> </ul>

Region	Findings



Rio Grande (Southeast)	
	<ul style="list-style-type: none"> <li>○ Affordability                             <ul style="list-style-type: none"> <li>– Residents must pay \$70-\$100 a month for broadband from the only ISP serving their county.</li> </ul> </li> <li>– Unreliability                             <ul style="list-style-type: none"> <li>– The service is not reliable (for example, it is frequently down for long periods) and does not meet the standards for high-speed internet. This impacts residents’ and business owners’ ability to use cloud-based platforms.                                     <ul style="list-style-type: none"> <li>○ Topography                                             <ul style="list-style-type: none"> <li>– In rural areas, physical infrastructure equipment (such as satellites) does not function consistently during inclement weather.                                                     <ul style="list-style-type: none"> <li>○ Accessibility                                                             <ul style="list-style-type: none"> <li>– For those who are unserved or underserved, residents have to travel long distances to access public Wi-Fi.</li> </ul> </li> </ul> </li> </ul> </li> </ul> </li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>○ Device distribution                             <ul style="list-style-type: none"> <li>– School districts in rural regions distribute Chromebooks to students to facilitate learning and internet access.</li> </ul> </li> <li>○ Digital navigators                             <ul style="list-style-type: none"> <li>– The OSU Extension Office deploys trusted trainers into the community and supports older business owners who are interested in integrating more technology into their business operations.</li> <li>– The Ohio Small Business Development Center (SBDC) currently offers training on digital skills and internet safety.</li> </ul> </li> </ul>



	<ul style="list-style-type: none"><li>○ Given the lack of at-home internet access for students, additional partnerships could be established with community anchor institutions to increase access to digital devices and the internet.</li><li>○ As digital literacy is often low among older adults, a train-the-trainer model with trusted community leaders can be deployed to provide training in digital skills and cybersecurity.</li></ul>

Cambridge (Southeast)	
	<ul style="list-style-type: none"> <li>○ Affordability</li> <li>— Many residents cannot afford to keep their technology up to date (by buying new devices, for example). Additionally, residents lack understanding of the different cost options available for internet plans and devices.</li> <li>○ Access</li> <li>— Residents in the region, especially in rural areas, experience extremely unreliable internet service. There are “dead zones” in coverage, or the internet sometimes cuts out completely, for example.</li> <li>○ Digital literacy</li> <li>— A lack of digital skills and understanding, especially among senior individuals, hinders internet adoption. Many older residents are hesitant to complete digital tasks or adopt new devices (such as smartphones).</li> </ul>
	<ul style="list-style-type: none"> <li>○ Digital skills</li> <li>○ Senior centers in the region provide digital literacy courses and workshops.</li> </ul>

	<ul style="list-style-type: none"><li>○ Establish more partnerships with local organizations to provide digital navigators in senior centers who demonstrate device usage and help residents navigate among internet providers and plans</li><li>○ Offer “loaner” tablets and devices at community locations (such as libraries, schools, churches, and senior centers) to alleviate cost barriers</li><li>○ Broaden the variety of available internet plans and senior discounts to mitigate cost barriers, especially for low-income residents</li></ul>

Xenia (Southwest)	
	<ul style="list-style-type: none"> <li style="margin-left: 40px;">○ Infrastructure gaps</li> <li>– There are disparities in broadband access and connectivity within neighborhoods; certain houses are unserved despite their proximity to covered houses.</li> <li>– Residents are quoted extremely high fees for an ISP to begin providing service to their home. <ul style="list-style-type: none"> <li>○ Lack of providers</li> </ul> </li> <li>– Residents either have one option or, if they have multiple options, the speeds are too low to consider utilization. <ul style="list-style-type: none"> <li>○ Privacy concerns</li> </ul> </li> <li>– Residents are reluctant to sign up for the ACP or receive devices due to fears that the government will see their data. <ul style="list-style-type: none"> <li>○ Digital skills/literacy</li> </ul> </li> <li>– Resources to help organizations educate people on privacy and general digital skills are limited; schools are also understaffed in their IT resources.</li> <li>– Some residents did not understand the benefits of having internet services, which prevents some from adopting those services. <ul style="list-style-type: none"> <li>○ Affordability</li> </ul> </li> <li>– Some residents hesitate to sign up for the ACP when there is no guarantee that the funds will continue.</li> </ul>
	<ul style="list-style-type: none"> <li style="margin-left: 40px;">○ Digital navigators</li> <li>– The Ohio Connectivity Champions supports residents in applying to the ACP.</li> </ul>

	<ul style="list-style-type: none"><li>○ Since internet adoption is inhibited by a lack of local resources, internet services can be provided in places like churches, which already have built-in services and community leaders.</li><li>○ To address reluctance to adopt internet services and devices due to government mistrust, peer-to-peer connection and grassroots efforts can support the roll-out of digital navigation, literacy, and device programs.</li><li>○ Wider internet availability in community institutions would give more people access to the internet and would help those without devices of their own.</li><li>○ Some entities, such as National Church Residences, are actively looking for partners to assist with digital skills and literacy training for their residents.</li></ul>

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Toledo (Northwest)	
Barriers	<ul style="list-style-type: none"> <li>– Government mistrust</li> <li>– In some communities, broadband and device adoption is limited by mistrust of broadband partners who appear to represent the interests of certain systems (such as government, health care, and education) or big businesses.                             <ul style="list-style-type: none"> <li>○ Physical infrastructure</li> </ul> </li> <li>– Some areas within the Northwest region have outdated broadband infrastructure (such as wires, poles, lead cable, and pulp insulation) that will require updates to ensure adequate coverage.</li> <li>– Community members are frustrated by a lack of provider options; there is only one ISP throughout most of the Northwest region.</li> <li>– Lack of resources</li> <li>– Several organizations noted that their greatest barrier is the amount of time and support required to provide effective digital training.</li> <li>– Individual support is needed to accommodate various skill levels and differing digital literacy, particularly when helping someone sign up for the ACP or providing them with a device.</li> </ul>
Programs and partners	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>○ Device distribution</li> </ul> </li> <li>– The Ability Center of Greater Toledo used CARES Act funding to stand up a digital device lending program that provides tablets to clients and community members.                             <ul style="list-style-type: none"> <li>○ Digital literacy</li> </ul> </li> <li>– The Toledo Lucas County Public Library (TLCPL) recently established the Northstar Digital Literacy Project, a free program for all community members with a library card.</li> <li>– Additionally, they started the Greater Toledo Digital Equity Coalition (GTDEC), which has over 50 members who represent various community and professional organizations.                             <ul style="list-style-type: none"> <li>○ Access</li> </ul> </li> <li>– The Ohio Connectivity Champions provide support for residents to apply for the ACP and register for the Northstar Digital Literacy Project</li> </ul>



Potential solutions and collaboration	<ul style="list-style-type: none"><li>○ Leverage community-based ISPs to engage community members in broadband decision-making</li><li>○ Offer more in-home digital literacy and skills programs to expand accessibility (by saving travel time, removing transportation barriers, and providing greater comfort, for example), especially for older populations and individuals with disabilities</li><li>○ Local organizations have found that tablets are the most appropriate devices for digital lending and giving programs, because they are easy to obtain and suitable for people of varying digital skill levels.</li></ul>
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Findlay (Northwest)	
	<ul style="list-style-type: none"> <li>○ Lack of transportation</li> <li>– Transportation is a major barrier to internet access in the Findlay-Hancock region. Convenient transportation is lacking, making it difficult for residents to access community anchor institutions for internet service.</li> <li>○ Lack of workforce capacity</li> <li>– Residents often need digital assistance or support outside traditional working hours. Individuals who work full-time jobs sometimes cannot access programs or in-person support offered during the traditional workday.</li> </ul>
	<ul style="list-style-type: none"> <li>○ Access</li> <li>– The Financial Opportunities Center (FOC) has the UNIFI Digital Connectivity Program, a four-pronged digital connectivity program consisting of:                             <ul style="list-style-type: none"> <li>○ A lending library</li> </ul> </li> <li>– ACP enrollment services and connected coaching to assist clients in enrolling in the ACP service and connecting to a data or broadband plan</li> <li>– Digital literacy services to walk clients through tailored and customizable courses related to digital literacy, skills, and device use</li> <li>– An online resource center                             <ul style="list-style-type: none"> <li>○ Device distribution</li> </ul> </li> <li>– Through its lending program, the FOC has lent devices to many organizations. For example:</li> <li>– City Mission of Findlay (a local homeless shelter) borrowed three desktops, a hotspot, and a laptop.</li> <li>– The Women’s Resource Center borrowed tablets to facilitate their intake processes.</li> <li>– NAMI borrowed a laptop so that clients could have access to a device while at the NAMI facility.</li> </ul>

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|  | <ul style="list-style-type: none"><li>○ Ensure that community anchor institutions with broadband access are strategically placed and accessible by foot (within a 10-15-minute walking distance, for example), particularly for rural regions with limited transportation options</li><li>○ Trusted community organizations for underrepresented populations could offer digital connectivity programs along with various other services they already provide (such as hosting an information session about ACP at the conclusion of a housing voucher briefing).</li><li>○ Offering instructions for ACP, digital device lending, and digital literacy programs must consider language needs; languages spoken in Northwest community include Spanish, Haitian Creole, and Ukrainian.</li></ul> |
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Cleveland (Northeast)	
	<ul style="list-style-type: none"><li>○ Affordability</li><li>— Few affordable broadband options are available, especially for retirees or individuals who make slightly above the income limits for ACP.</li><li>○ Mistrust</li><li>— Many community members are wary of broadband programs like the ACP because they seem “too good to be true.” Additionally, some individuals hesitate to trust ISPs because the companies have not historically expressed interest in the community’s basic needs and concerns.</li><li>— Low-quality devices received through ACP or other giving and lending programs erode trust and discourage individuals who are seeking better device access and broadband adoption.</li><li>○ Digital literacy</li><li>— Community organizations noted that their primary challenge is breaking through clients’ phobias about digital opportunities. They said that clients may not be fully aware of digital devices’ value and are therefore reluctant to buy or use them.</li></ul>

	<ul style="list-style-type: none"><li>○ Digital literacy<ul style="list-style-type: none"><li>— ASC3’s digital navigator program helps participants apply digital training and learning in real-world environments.</li><li>— Digital skills courses are offered at senior facilities within the Cleveland community. Residents shared that these classes frequently have the most engaged and most excited participants.</li></ul></li><li>○ Access<ul style="list-style-type: none"><li>— The Digital Inclusion Program at the Cuyahoga Metropolitan Housing Authority (CMHA) shares information about the ACP at community-based events by deploying digital navigators into the community.</li><li>— The Cleveland Metropolitan School District (CMSD) offers a program to provide internet access, devices, and software for students and their families. For students graduating or aging out of the program, CMSD has partnered with PCs for People to provide refurbished devices and assist families with applications for the ACP.</li><li>— The CMSD also spreads awareness and information about the ACP to its students and their families through various distribution channels (such as social media, posters, the school library, and notes to parents).</li></ul></li></ul>
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|  | <ul style="list-style-type: none"><li>○ Ensure that community members can readily access support (by asking questions about devices and ACP applications, for example)</li><li>○ Leverage the positioning of community anchor institutions (such as hair salons, laundromats, and coffee shops) for outreach and program delivery.</li><li>○ Design a variety of digital training and program offerings to provide instruction tailored to specific subpopulations' needs (such as students, working adults, and seniors)</li><li>○ Participants noted that, among industries that use technological tools (such as electronic health records in healthcare), residents sometimes experience limitations in data-sharing and interoperability across tools. Addressing data interoperability and sharing processes along with broadband initiatives may also help to address some of the social determinants of good health.</li></ul> |
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Youngstown (Northeast)	
Barriers	<ul style="list-style-type: none"> <li>○ Lack of local funding</li> <li>– Many local organizations do not have the resources or funds to deploy basic digital literacy courses and refurbished device programs. As a result, many residents must travel to major cities to access broadband programs (like Cleveland and Pittsburgh).                         <ul style="list-style-type: none"> <li>○ Device access</li> </ul> </li> <li>– Many residents do not use devices because they doubt the quality of refurbished devices. Participants noted that easier-to-use devices (such as Apple products) are more expensive.                         <ul style="list-style-type: none"> <li>○ Awareness of programs</li> </ul> </li> <li>– Often local organizations do not have the marketing resources to ensure their broadband programs and subsidies appear early in search engine results (such as Google searches)                         <ul style="list-style-type: none"> <li>○ Infrastructure</li> </ul> </li> <li>– Residents, especially in rural areas, lack options in high-speed internet providers. Moreover, internet service and speeds vary greatly, depending on the location of a household within the region.                         <ul style="list-style-type: none"> <li>○ Digital literacy</li> </ul> </li> <li>– A lack of digital literacy and navigation skills was noted as a barrier to broadband utilization, especially among older adults and students. Many older individuals and people without digital literacy cannot complete digital tasks, or they rely on other people to get technological support.</li> <li>– Some residents may not understand the value of having internet services and therefore do not pursue these services.                         <ul style="list-style-type: none"> <li>○ Unreliability</li> </ul> </li> <li>– Participants noted that internet service is extremely unreliable throughout the region (for example, teleconferencing calls may drop off, or residents may be unable to send emails). Internet service will cut out in some areas for prolonged periods, leaving many residents without at-home Internet access.</li> </ul>

<p>Programs and partners</p>	<ul style="list-style-type: none"> <li>○ Digital literacy <ul style="list-style-type: none"> <li>– The Adult Basic and Literacy Education (ABLE) program provides basic digital literacy and skills courses to residents in the state.</li> <li>– Oak Hill Collaborative offers basic digital navigation and literacy courses.</li> <li>– Previously, the Farm Bureau offered digital literacy sessions for three to four hours a day to teach members how to set up and utilize devices. <ul style="list-style-type: none"> <li>○ Device distribution</li> </ul> </li> <li>– Oak Hill Collaborative has a refurbished device roll-out initiative to provide residents with lower-cost laptops. <ul style="list-style-type: none"> <li>○ Access</li> </ul> </li> </ul> </li> <li>– Oak Hill Collaborative offers support services for residents filling out ACP applications.</li> </ul>
<p>Potential solutions and collaboration</p>	<ul style="list-style-type: none"> <li>○ Implement local broadband-related public service announcements to alleviate feelings of mistrust in the community.</li> <li>○ To ensure that local organizations can apply for broadband funding, remove any requirement that an eligible organization must have previously received funding</li> <li>○ Offer digital literacy courses at libraries that are related to specific topics – such as cooking – to increase community participation</li> <li>○ To boost digital literacy, encourage technicians to provide residents with digital literacy training when installing at-home internet services</li> </ul>



Virtual (statewide)	
Barriers	<ul style="list-style-type: none"> <li>○ Lack of infrastructure</li> <li>— Lack of modern infrastructure and of strong internet connectivity (covering the entire property) inhibits both economic opportunities (such as the use of advanced technology for precision agriculture, remote working, and video conferencing) and daily activities (such as telehealth, schoolwork, and streaming).</li> <li>— Existing services often cannot support multiple users at once.                             <ul style="list-style-type: none"> <li>○ Lack of resources</li> </ul> </li> <li>— Deficiency of resources and workforce capacity is an obstacle to device roll-out initiatives. Local organizations’ staff members do not have the capacity to support community members with digital navigation and technical support questions.                             <ul style="list-style-type: none"> <li>○ Access</li> </ul> </li> <li>— Across the state, communities have differing access to broadband options (such as fixed wireless and fiber) and varying costs for associated broadband.</li> </ul>
Programs and partners	<ul style="list-style-type: none"> <li>○ Device distribution</li> <li>— Local organizations provide devices to community members who already have internet service set up.</li> <li>— Local libraries developed short- and long-term hotspot distribution programs to provide residents with stable and reliable internet services.                             <ul style="list-style-type: none"> <li>○ Digital skills/literacy</li> </ul> </li> <li>— Local telephone providers help aging individuals navigate their devices via telephone sessions.</li> <li>— The Columbus Metropolitan Library partners with Goodwill Columbus to provide technology classes.</li> <li>— Rhodes State College offers digital literacy classes for individuals learning how to use certain devices.</li> </ul>
Potential solutions	<ul style="list-style-type: none"> <li>○ Ensure that community nonprofits providing public-facing services and programming have the appropriate Wi-Fi equipment (such as routers and</li> </ul>

and collaboration	modems) and internet access to allow for digital participation in their services (such as medical clinic services, training, and live streaming of meetings) <ul style="list-style-type: none"><li>○ Use physical (such as paper copies) and digital materials to ensure that local organizations can share resources with all residents</li></ul>
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# Appendix 2. List of Proposed Waivers

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Below includes the list of waivers BroadbandOhio intends to request from NTIA.

## Letter of Credit

BroadbandOhio intends to seek a waiver for the BEAD letter of credit requirement so that letters of credit can be requested at the discretion of the Ohio Broadband Expansion Program Authority. This is to ensure that smaller providers are not barred from participating in BEAD if they can otherwise prove financial stability. During listening sessions and the public comment period, participants have already raised that letter of credit requirements can become a dealbreaker, particularly for smaller ISPs. BroadbandOhio expects that a waiver for letter of credit requirements will help ensure wider participation from ISPs, increase competition, and thereby improve the quality of bids, which combined may ultimately help bolster effective BEAD outlay to reach universal service.

Instead of a blanket requirement for letters of credit, BroadbandOhio will assess the information provided for proof of financial stability (please see **2.4.11** for more details) to evaluate whether the applicant has sufficient financial stability to undertake the proposed project. Specifically, each applicant awarded BEAD program funds will enter into a grant agreement setting forth the terms and the conditions of the program grant. In addition to the grant agreement, BroadbandOhio may require a performance bond, letter of credit, or other financial assurance if determined that the completion of the project requires additional security based on its assessment of the complete

application. BroadbandOhio may rescind an award of funds to a broadband provider for failure to execute a program grant agreement within 90 days of the determination of the authority to approve the provider's complete application.<sup>252</sup>

## Requirement for certification by a professional engineer prior to application (partial waiver)

*Note: This partial waiver request was not approved by NTIA.*

BroadbandOhio intends to seek a waiver for the BEAD requirement to have the prospective subgrantee's application certified by a professional engineer, stating that the proposed network can deliver broadband service that meets the requisite performance requirements to all locations served by the Project, at the time of application. Ohio has 26,923 professional engineers in total as of July 2023.<sup>253</sup> Considering the anticipated scale of the BEAD deployment efforts and the timeline for subgrantee selection process, BroadbandOhio anticipates significant difficulties for potential subgrantees to obtain a certification prior to application submission, which could bottleneck the application process if certification is required at the time of application as a subgrantee qualification. BroadbandOhio also anticipates that requiring providers to incur the cost and time to receive a professional engineer certification before awards are not yet confirmed may be a strenuous requirement for ISPs, and thus may serve as a barrier to entry especially for smaller broadband providers that may not have an in-house professional engineer that can certify the project design. BroadbandOhio believes that this may in turn negatively impact provider interest in participation, degree of competition, and subsequent quality of applications, all of which may lower efficiency of BEAD outlay.

Instead, BroadbandOhio seeks to require the certification by a professional engineer after awards have been announced but prior to disbursement of funds. As part of the

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<sup>252</sup> [ORBEG Rules](#), Rule 122:30-1-05, "Ohio Residential Broadband Expansion Grant Program," BroadbandOhio, December 16, 2021

<sup>253</sup> <https://peps.ohio.gov/about/forms-and-publications/2022-2023-Individual-Roster>



award agreement, BroadbandOhio will require all awarded subgrantees to obtain a certification from a professional engineer within 6 months of award announcement, and should an awarded subgrantee prove to be unable to obtain this certification by this time and needs to withdraw, it will be subject to a penalty of 20% of the originally awarded BEAD funding. BroadbandOhio will therefore expect potential subgrantees to have a sufficient understanding of the technical requirements for their proposed projects, and anticipates that their proposed projects at the time of application would still be largely in line with the final certified plan. As such, BroadbandOhio will strongly encourage all subgrantees to submit a near-final plan that is ready to be reviewed by a professional engineer if the project is selected.

### **Approval to not require BEAD deployment in areas of the state where the community has stated that they do not want high-speed internet access**

There are sizable populations in Ohio that do not leverage technology in their homes for religious reasons. According to Elizabethtown College, Ohio had the second highest Amish population among U.S. states as of 2022, who may not be interested in adopting broadband.<sup>254</sup> Amish BroadbandOhio survey respondents have also already expressed their desire to be exempt from universal service requirements.

BroadbandOhio therefore plans to request a BEAD deployment exemption from NTIA for locations in Amish populations that do not want broadband deployment for religious reasons. A potential amendment could be considered to include other groups beyond the Amish population.

### **Match Requirement**

While Ohio does not have any NTIA-designated high-cost areas, stakeholder engagement sessions have noted that there are high-cost deployment areas in Ohio

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<sup>254</sup> "Amish Population, 2022." Young Center for Anabaptist and Pietist Studies, Elizabethtown College. <http://groups.etown.edu/amishstudies/statistics/population-2022/>

(e.g., Appalachia) that may pose financial barriers for ISP participation if full match is required.<sup>255</sup>

Specifically, during the subsequent BEAD round only, BroadbandOhio plans to allow prospective providers to indicate whether they would need a partial waiver for the 25% match requirement should that be a barring factor for their participation in BEAD for the proposed project. Should there be a project area unit where there is an uncontested prospective subgrantee that is willing to deploy in the area but with the condition of a partial match waiver, BroadbandOhio will seek to partially waive the match requirement by requesting a waiver from NTIA. If, however, there is another application that does not require a waiver applying for the same PAU, that application will be prioritized over those projects that request a waiver. This step will help solicit providers that would be willing to participate if the waiver requirement could be negotiated, thereby helping solicit more applications toward reaching universal service per BEAD's objective.

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<sup>255</sup> See Five-Year Action Plan, Stakeholder Engagement for more detail.