



Illinois
Department of Commerce
& Economic Opportunity
OFFICE OF BROADBAND
JB Pritzker, Governor



UNIVERSITY OF ILLINOIS SYSTEM

Closing the Digital Divide in Illinois

BEAD Deep-Dive Webinar:

Connect Illinois Round 4 (Wave 2) Application Templates, Forms, & Example Documents

June 3, 2025

Topics for Discussion Today



Recap of BEAD and progress to date



Overview of Connect Illinois Round 4 Application Templates, Forms, & Example Documents



Deep dive on Connect Illinois Round 4 Application Templates – *Part 1*



Live demo of Connect Illinois Round 4 Application Templates – *Part 1*

1

Recap of BEAD and progress to date

BEAD is a \$42B federal grant program that aims to bring high-speed internet to all Americans

Note: NTIA has communicated that changes to the program are coming following a rigorous review by the U.S. Dept. of Commerce

\$42.45 billion

Funds provided for BEAD

The Broadband Equity, Access, and Deployment (BEAD) Program is a federal grant program that aims to get all Americans online by funding partnerships between states or territories, communities, and stakeholders to build infrastructure where high-speed internet is currently unavailable

Program highlights

Eligible entities

- All 50 States, District of Columbia, and Puerto Rico
- Other Territories: U.S. Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Mariana Islands

Example eligible uses of funds

- Planning for the deployment of high-speed Internet, including conducting research, collecting data, outreach, and training
- Deploying or upgrading Internet in un/underserved areas
- Improving service to community anchor institutions
- Installing Internet and Wi-Fi in multi-unit residential buildings
- Workforce development, including Registered Apprenticeships and pre-apprenticeships, community college and/or vocational training for broadband-related occupations to support deployment, maintenance, and upgrades

What are the goals of BEAD?



The BEAD Program awarded Illinois \$1.04 billion to connect all unserved and underserved locations to broadband over the next 5 years



Ensure universal coverage across all un/underserved locations in the state, maximizing deployment of end-to-end fiber, and only using non-fiber where fiber costs are extremely high¹



Prioritize projects providing broadband access to unserved and underserved locations and community anchor institutions, Wi-Fi equipment for Multi-Dwelling Units (MDUs) then other digital equity and inclusion priorities²



Run subgrantee selection process within one year of approval of the Initial Proposal, and complete implementation within four years of receipt of funds³



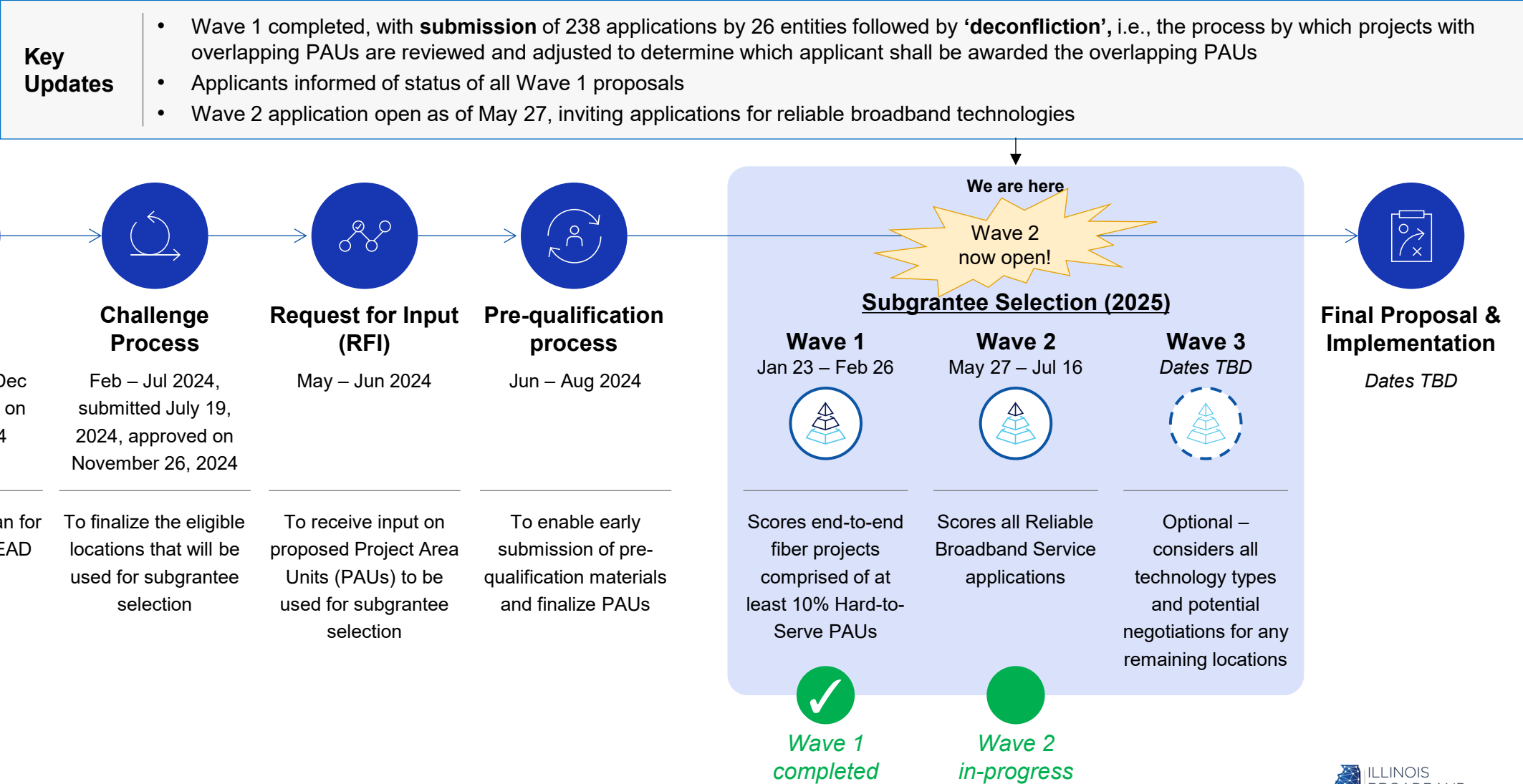
Focus on improving broadband affordability through a low-cost broadband service option, and a middle-class affordability plan⁴

1. Page 14 of BEAD NOFO, on the definition of Priority Broadband Project
2. Page 33 of BEAD NOFO, on the allocation of grant funds
3. Page 65 of BEAD NOFO, on deployment deadlines and benchmarks
4. Page 42-46 of BEAD NOFO, on inclusion of affordability in the BEAD scoring criteria

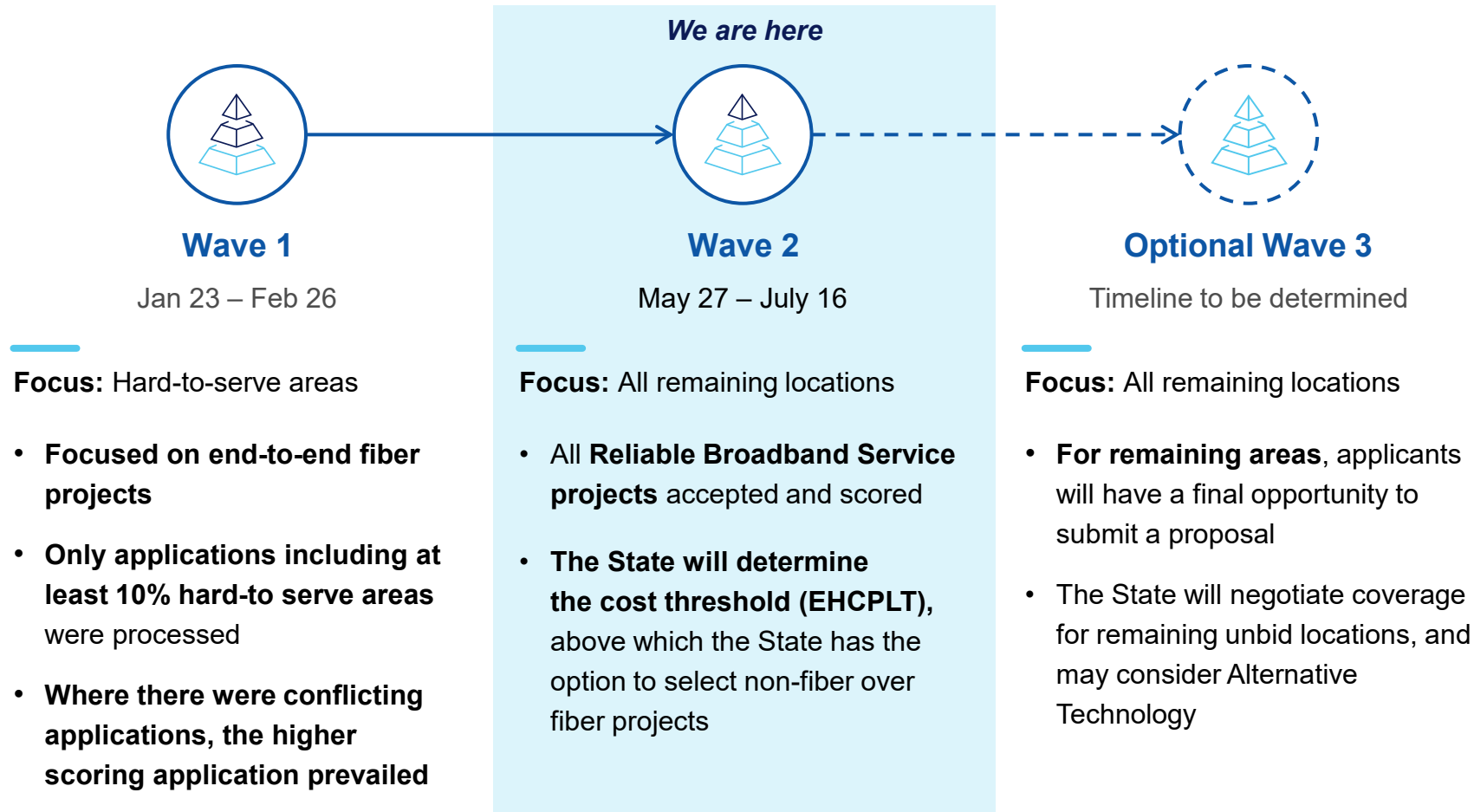
Source: [BEAD NOFO](#)

Overview of the BEAD-Funded Connect Illinois Round 4 timeline

PRELIMINARY TIMELINE - SUBJECT TO CHANGE INFORMATION PROVIDED ON AN INFORMATIONAL BASIS AND DOES NOT SUPERCEDE ORIGINAL DOCUMENTS



The subgrantee selection process consists of up to three waves – the first Wave is complete, and the second Wave opened on May 27



Note: Timeline is tentative based on currently available information and may change

Source: Connect Illinois Initial Proposal Volume II

What are PAUs?

Project Area Units (PAUs) are clusters of eligible locations no more than five miles apart

PAUs function as the “building blocks” of applications – applicants can apply to serve one or more PAUs, and PAUs cannot be separated

Detailed definitions follow

Before we discuss further, let's define a few concepts and terms

Project Area Unit (PAU)

A collection of un/underserved Broadband Serviceable Locations (BSLs) and Community Anchor Institutions (CAIs) eligible for an application

PAUs do not overlap and collectively contain all un/underserved locations and eligible CAIs in the State

If awarded a PAU, a subgrantee must deploy to all included eligible locations



Broadband Serviceable Location (BSL)

A business or residential location at which fixed broadband access is, or can be, installed, where:

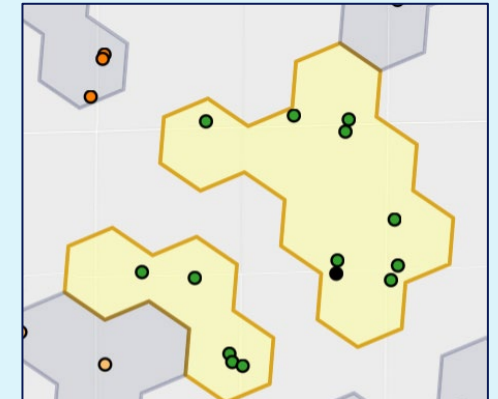
- **Unserved:** Has access to broadband service with speeds of <25/3Mbps
- **Underserved:** $\geq 25/3$ and <100/20Mbps
- **Served:** $\geq 100/20$ Mbps

Community Anchor Institution (CAI)

An entity that facilitates wider use of broadband service by vulnerable populations (e.g., schools, libraries, senior centers)¹

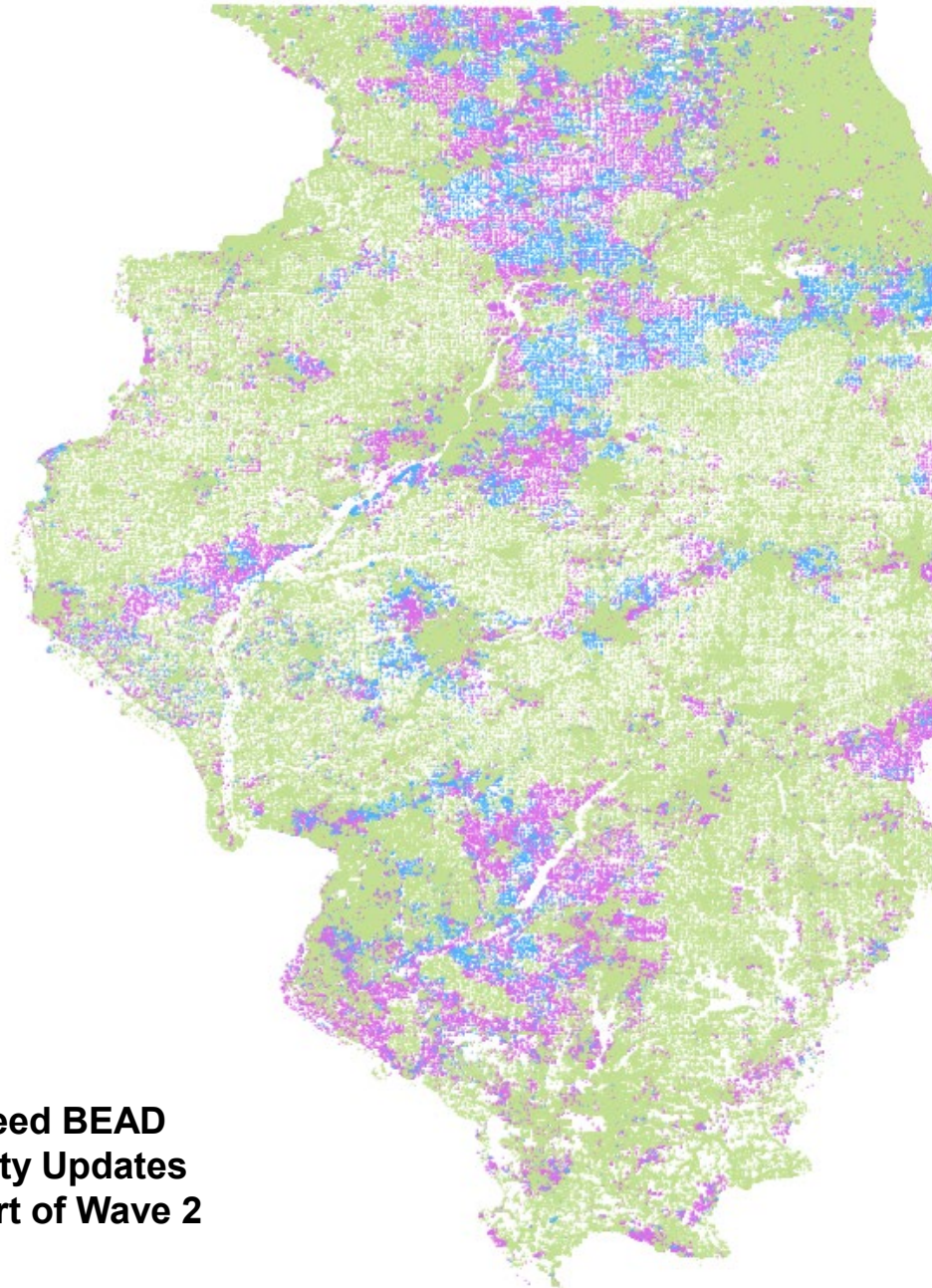
CAIs without access to 1Gbps symmetrical broadband service are eligible for BEAD funding

Illustration of a PAU, where each point shown is an eligible location



1. Details on Illinois's definition of CAIs can be found in Illinois's BEAD Initial Proposal Volume I

**175,293
locations are
eligible to be
connected
through BEAD**



Note: Locations deemed to no longer need BEAD funding based on the latest Serviceability Updates Process have been published at the start of Wave 2

**Broadband service
availability in Illinois, per
BEAD-eligibility data**

~4.2M

Total Broadband Serviceable
Locations (BSLs)

~107K (~3%)

Unserved BSLs

(locations with <25/3Mbps speed)

~65K (~1%)

Underserved BSLs

(locations with ≥25/3Mbps and
<100/20Mbps speed)

~172K
BEAD-
eligible
BSLs

~4.0M (~96%)

Served BSLs

(locations with ≥100/20Mbps speed)

Plus **3,356** eligible community anchor
institutions (CAIs)

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Connect Illinois Round 4 Application Templates, Forms, & Example Documents

Applicants must submit three forms to complete an application for BEAD-funded Connect Illinois Round 4



Entity Submission Form

Purpose

Ensures entities applying for Connect Illinois Round 4 **meet NTIA BEAD qualification requirements**

Example materials to submit

- Entity-specific qualifications
- IL Conflict of Interest disclosure
- IL Mandatory Disclosures
- W-9 form

Submission frequency

Once per entity, regardless of number of projects to be submitted
Note: Entities who **applied in Wave 1** do not need to resubmit entity forms

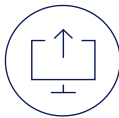


Project Submission Form

Ensures submitted **projects meet NTIA BEAD qualification requirements** and collects materials to be reviewed during the **Merit Review Scoring Process**

- Project-specific qualifications
- Project-specific scoring materials
- IL Project budget template
- IL Uniform Grant Application Form

Once per project



Application Submission Form

Serves as the **official submission of the application** to the State of Illinois, specifying the Entity / Project submissions to be reviewed by the State

- Entity Submission Form ID
- Project Submission Form ID

Once per project

1

Entity Submission Form



Connect Illinois Round 4 Entity Form

Entity Form (Part 1)

This application form is part 1 of the submission. Before proceeding, please review the BEAD-funded project. Please note, each entity should submit the Entity Form in the Project Form (part 2) of the application. Connect Illinois Round 4, you should submit *this* form. This form requests materials that will be reviewed. Qualification materials are not used in scoring but are used for State requirements.

Pre-Qualification Participants: If you participated in the BEAD Pre-Qualification process, please submit your Participation Notice Letter ready, as certain questions may be asked.

Please use standard templates wherever requested.

Naming standard for all document and template files:
Name all uploaded files using the following naming convention: *Entity Form - Evidence of Sufficient Funding May 19.xlsx*

Please do not include any special characters in the file names.

Confidentiality Notice

All information submitted is subject to the Freedom of Information Act. If you have proprietary information, they may mark it "Confidential" to be presumptively exempt from disclosure.

Administrative: Entity Information

This section requests basic identification information for your entity.


E.AD.1. Legal Entity Name *	Please enter your legal entity name used in all company documents, including any filings with the FCC or the IRS.
E.AD.2. Doing Business As (DBA)	Please enter the name that the legal entity is doing business as.
E.AD.3. Employer Identification Number (EIN) *	<p>Please enter the nine-digit Employer Identification Number (EIN) used in the BEAD Pre-Qualification process, please enter the exact EIN may result in the qualifications approval application process.</p> <p>In the event you are applying as a multi-party agreement, please enter the EIN that was used for SAM registration or, if not, the EIN that you are reporting to the State and ensuring that the multi-party agreement is approved. If you do not have an EIN, please contact the BEAD administrator.</p>
E.AD.4. Type of Entity *	Select the relevant type that best describes your entity.

Part B: Managerial Capabilities

This section requests information about your entity to demonstrate compliance with BEAD requirements on managerial capabilities for subgrantees deploying network facilities (BEAD NOFO, pages 73-74).

E.B1. Résumés: Documentation *	<p>Provide 5-7 résumés for essential financial, technical, and managerial personnel who will support project implementation. Résumés should include educational experience, detailed descriptions of work history, and all relevant experience in undertaking projects of similar size and scope. (Permitted file types: PDF)</p> <div>Drop files here or browse</div>
E.B2.A. Organizational chart(s): Personnel Documentation *	<p>Provide a personnel organizational chart that includes all relevant personnel who will support project implementation. Names and titles should be clearly identified for all positions. (Permitted file types: PDF, XLSX, DOCX, JPEG, PNG)</p> <div>Drop files here or browse</div>
E.B2.B. Organizational chart(s): Entity Structure Documentation *	<p>Provide company structure organizational chart(s) detailing all parent companies, subsidiaries, and affiliates. If relevant, prospective subgrantees should also provide a narrative on upcoming organizational changes, including mergers, acquisitions, and organizational policies. (Permitted file types: PDF, XLSX, DOCX, JPEG, PNG)</p> <div>Drop files here or browse</div>
E.B3. Managerial Readiness: Narrative *	<p>Provide a narrative of managerial readiness to manage a broadband services network. This narrative should describe the experience and qualifications of key management for undertaking this project, its experience undertaking projects of similar size and scope, recent and upcoming organizational changes including mergers and acquisitions, and relevant organizational policies. (2100 character limit, approx. 300 words)</p> <div></div>

Project Submission Form



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Connect Illinois Round 4 Project Form

Project Form (Part 2)

This application form is part 2 of the submission process for the BEAD-funded Connect Illinois Round 4. Prior to starting this form, please ensure that the Entity Form has been completed for the BEAD-funded project. Before proceeding, please also review the BEAD-funded project information.

The Project Form requests materials to demonstrate that the project meets the Merit Review Scoring Process.

- This form begins with all qualification materials (all materials must be submitted for the application to be considered for BEAD funding purposes (see below).
- Section 5 contains all additional information not covered in the Merit Review Scoring Process. Information regarding the scoring process is available in [Proposal, Volume II](#).

Applicants must submit this form for each project application. This section provides a detailed explanation for each component.

Please use standard templates wherever requested, and please refer to the [Project Form Instructions](#) for more information.

Naming standard for all document and template uploads

Name all uploaded files using the following naming convention: [Project Name]_[Section]_[Format].xlsx"

For example, if the project was named in P.AD.1 was 12-3456789-03 Project, the file name would be: 12-3456789-03 Project_Schedule May 19.xlsx"

Please do not include any special characters in the file name.

Part A: Project Overview and Locations Impacted

This section of the application requests an overview of the project and locations impacted by the proposed broadband project.

PA1. Project Overview: Narrative

Please provide a high-level, introductory overview of the project. Please include a summary description of the project scope (e.g., geographic area, count of BSLs/CAIs to be served, technology); project budget, funds requested, and match provided; estimated time needed for start of deployment activities; and estimated time for deployment completion. Please be advised that this narrative may be publicly used in announcements following any awards made, if applicable.

PA2. Project Area Selection Sheet: Template

Please upload BOTH of the following files:

- The Project Area Selection Sheet from the [BEAD Project Form Instructions](#)
- The original, unaltered template above

Please ensure the files are named "[Project Name]_PA2_Selection Sheet.xlsx" and "[Project Name]_PA2_Template.xlsx".

PA2.A. Locations that are Not Unserved, Underserved, or Eligible CAIs

Please indicate whether the locations are not unserved, underserved, or eligible CAIs.

Yes

No

Part B: Technical Project-Based Qualifications

This section of the application focuses on the technical design aspects of the proposed broadband project. Applicants must provide a project design and other supporting materials demonstrating the capability to provide broadband service meeting or exceeding the BEAD program requirements. The project design materials must be certified by a currently licensed professional engineer. The project design materials must include the components listed below.

PB1. Detailed Project Schedule: Template

Please provide a detailed project implementation schedule, including buildout timeline and milestones, using the [template](#) provided. This document must be accompanied by a certification from a Professional Engineer. (Permitted file types: XLSX)

PB2.A1. Network Design Statistics: Total miles of fiber

Please indicate the total proposed miles of fiber deployment. If your project does not involve fiber deployment, please write "N/A".

PB2.A2. Network Design Statistics: Miles of buried fiber

Please indicate the total proposed miles of buried fiber. The figure provided here and in P.B2.A3 must total to the figure provided in P.B2.A1. If your project does not include buried fiber, please write "N/A".


PB2.A3. Network Design Statistics: Miles of aerial fiber

Please indicate the total proposed miles of aerial fiber. The figures provided here and in P.B2.A2 must total to the figure provided in P.B2.A1. If your project does not include aerial fiber, please write "N/A".

PB2.A4. Network Design Statistics: Miles of fiber for last mile deployment

Please indicate the total proposed miles of last mile fiber. The figure provided here and in P.B2.A5 must total to the figure provided in P.B2.A1. If your project does not involve fiber deployment, please write "N/A".

Source: Connect Illinois Round 4 Project Submission Form as of May 28, 2025

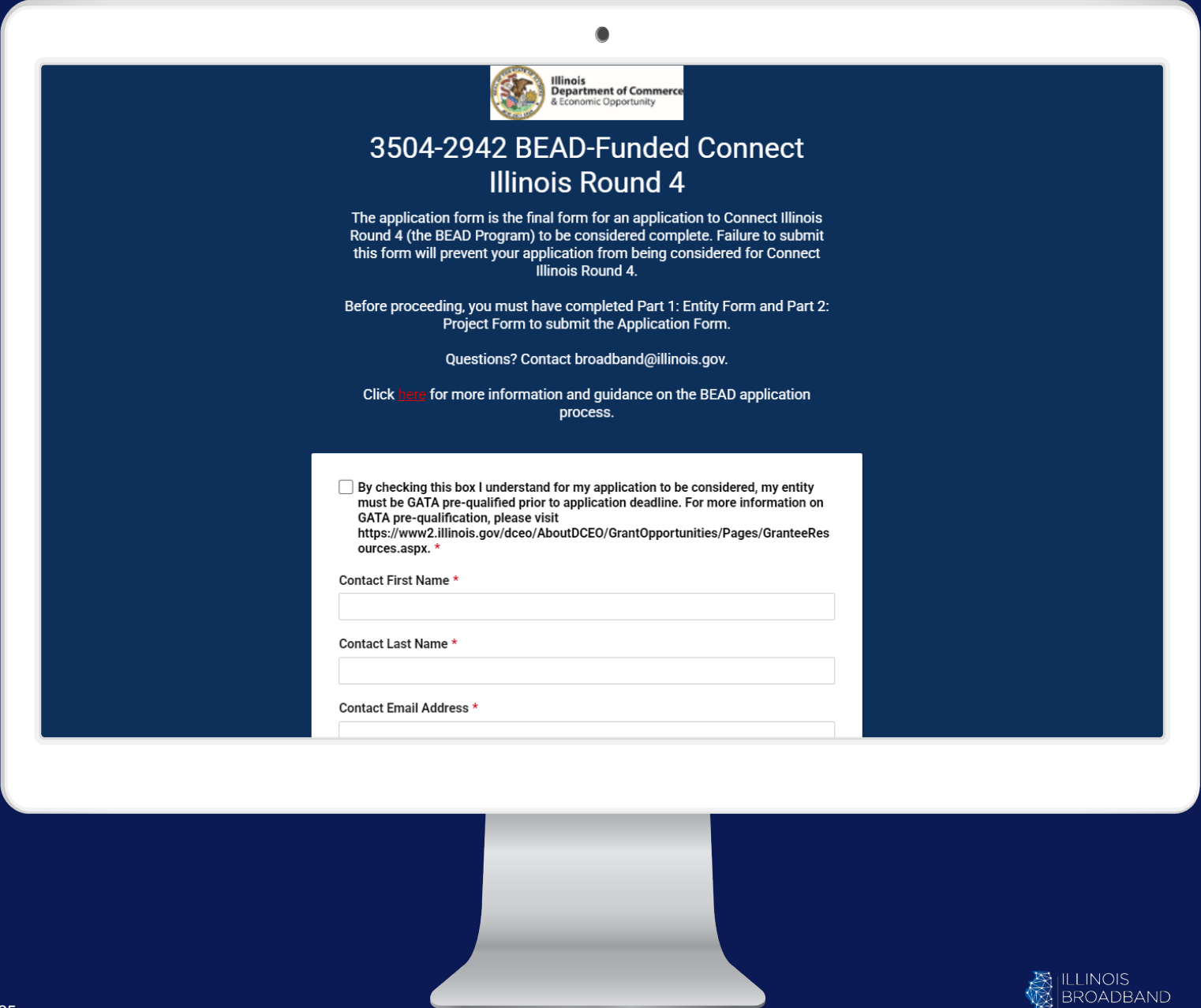


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Application Submission form



Some qualifications will be evaluated using a standard template that applicants must complete

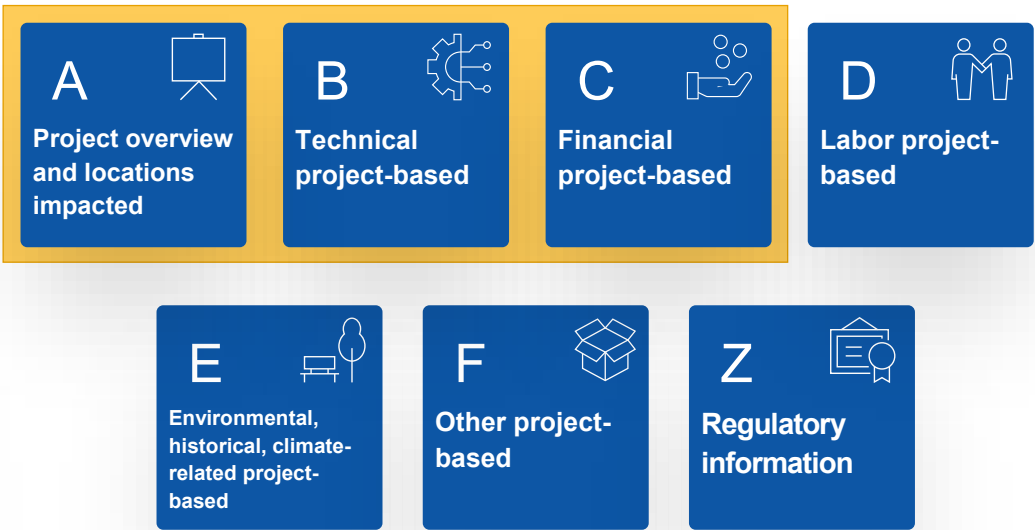
- Qualification includes template
- Qualifications included in pre-qualification phase
- Qualifications not included in pre-qualification phase

Entity application qualifications



Qualifications approved during the pre-qualification process generally do not need to be resubmitted, but the State reserves the right to re-assess the qualifications, capabilities, and resources of all prospective subgrantees

Project application qualifications




Regardless of pre-qualification status, all applicants must submit project-based qualification materials

In-depth guidance can be found in the [Application Guidebook](#)

Recap: Pre-qualification participants can apply their pre-approved qualifications to their Entity Submission Form response

ILLUSTRATIVE INFORMATION PROVIDED ON AN INFORMATIONAL BASIS AND DOES NOT SUPERCEDE ORIGINAL DOCUMENTS

Illustrative Pre-Qualification Final Determination email



Dear Sample Corporation (EIN: 12-3456789),

The Illinois Office of Broadband appreciates your participation in the Pre-Qualification process for the BEAD-funded Connect Illinois Round 4. This letter is a summary of all approved qualifications from the Pre-Qualification process, and we encourage you to participate in the formal subgrantee selection process when it opens.

(1) Summary of Approved Qualifications

The following qualifications have been approved across your pre-qualification submissions:

- A. Financial Capabilities:** A1, A2
- B. Managerial Capabilities:** B1
- C. Technical Capabilities:** C2
- D. Legal and Regulatory Compliance:** D1, D2
- E. Operational Capabilities:** E2
- F. Ownership:** F1
- G. Other Public Funding:** G1

During the subgrantee selection process, you do not need to re-submit materials for approved qualifications, unless any materials originally submitted to support an approved qualification have become outdated. However, the State reserves the right to re-assess the qualifications, capabilities, and resources of all prospective subgrantees based on the application-specific technical, geographical, and financial details of the actual proposed projects prior to making final awards.

(2) Next Steps for Application Process

To link your pre-approved qualifications to your application during the subgrantee selection process, please enter the following in the Entity Submission Form (Part 1 of the application):

- EIN:** 12-3456789
- Pre-Qualification Participant ID:** PPQ-9999T
- Pre-Qualification Approved Qualifications:** Please populate based on list provided above



How to apply pre-approved qualifications during Connect Illinois Round 4

Navigate to **Pre-Qualifications Process** section in the **Entity Submission Form**

Respond **Yes** to **E.AD.8.A**

Enter your **Pre-Qualification Participant ID (PPQ-####X)** from your **Final Determination email** in **E.AD.8.B**

From the **pre-approved qualifications listed in your Final Determination email**, select those that you would like to reflect in your application in **E.AD.8.C**, which allows you to skip corresponding questions in the Entity Submission Form

ILLUSTRATIVE

Administrative: Pre-Qualifications Process

E.AD.8.A. Pre-Qualification Process Participation * Did you participate in the BEAD Funded Connect Illinois Round 4 Pre-Qualification process?

☒ Yes ☐ No

Clear Selection

E.AD.8.B. Pre-Qualification Participant ID * Please enter the PPQ ID from the Participation Notice Letter provided by the Illinois Office of Broadband. This Participation Notice Letter contains a Pre-Qualification Participant ID (starting with PPQ), which will connect your approved qualifications to this submission.

Please double-check this is correctly entered before proceeding. Failure to enter the valid ID may result in your application not being considered during this Wave.

PPQ-9999T

+ Add result

E.AD.8.C. Pre-Qualification Approved Qualifications * Using the Pre-Qualification Participation Notice Letter, select all qualifications below that have been denoted "APPROVED" on the Pre-Qualification Participation Notice Letter. This will hide all qualifications for which you have been approved. If materials need to be updated, even if a qualification is approved, do not select the qualification in the list.

Note: You are responsible for cross-checking and confirming the selected qualifications are accurate and correct. Failure to submit all qualifications required in this form, either by carrying over your pre-approved qualifications or by submitting new materials for review, may result in your application not being considered during this Wave.

☒ A1 ☒ A2 ☐ A3

Note: All RDOF awardees are required to submit updated materials for G4

Today, we'll walk through a few of these templates

– Part 2 of walkthrough is scheduled for June 4 (Wednesday)

Focus for today
✓ Submission always required
 ⊙ Submission conditionally required
 ⊗ Submission not required for application

Overview of documents pertaining to BEAD-Funded Connect Illinois Round 4

	Document and applicable question index	Document required for application?	Document type
Entity Submission Form	Ⓕ E.F1.A. Ownership Information Template	✓	Template
	Ⓖ E.G3/G4. Existing Broadband Projects Template	⊙ (For applicants with other public projects)	Template
	Ⓘ E.I1. Mandatory Disclosure Form	✓	Form
	E.I2. Conflict of Interest Disclosure Form	✓	Form
	E.I3. W-9 Form	✓	Form
Project Submission Form	Ⓐ P.A2. Project Area Selection Sheet Template	✓	Template
	Ⓑ P.B1. Project Timeline Template	✓	Template
	P.B2.D Fixed Wireless Access (FWA) Design Template	⊙ (For proposed FWA projects)	Template
	P.B3. Example Logical Network Diagram	✓ (Network Diagram is required)	Example document
	P.B4. Project Budget & Capital Investment Schedule	✓	Template
	P.B5. Professional Engineer Certification Template	✓	Template
	Ⓒ P.C1. Pro Forma Template	✓	Template
	P.C2. Model Letter of Credit	⊗ (Required if awarded)	Example document
	Ⓓ P.Z1. Uniform Grant Application Form	✓	Form

Definitions:

Templates require applicants to input specific project-related information in a State-defined format

Forms require applicants to submit standard information and/or disclosures required by the State

Example documents demonstrate information that applicants must provide

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Deep dive on Connect Illinois Round 4 Application Templates (Part 1)

E.F1.A. Ownership Information Template

Requires PE certification?
☐ Yes ☒ No

Form: Entity Submission Form
Section: F – Ownership Capabilities
Document required for application?: Yes

Overview:

- Allows applicants to satisfy BEAD requirements for **ownership information reporting** in line with 47 C.F.R. § 1.2112(a)(1)-(7)
- Provides standardized approach for reporting all required ownership information

Live demo to follow

P.B1. Project Timeline Template

Requires PE certification?

☒ Yes

☐ No

Form: Project Submission Form

Section: B – Technical Project-Based Qualifications

Document required for application?: Yes

Overview:

- Details **build-out timeline and milestones** for proposed project
- Enables applicants and evaluators to review the proposed project progression against State-defined milestones

Live demo to follow

Connect Illinois Round 4 - Project Timeline

There are 48 months in the four-year implementation timeframe. Month 1 = the project start (the day the grant agreement is executed). The start of each individual milestone should be provided in relation to the project start.

Program Milestone	Description	Milestone Start In what number month does this milestone begin?*" i.e., 6 months into the project is month 6, one year in is month 13
Detailed Project Planning		
Network Design		
National Environmental Policy Act (NEPA) / National Historic Preservation Act (NHPA) Assessment		
Permitting		
Make Ready		
Material & Equipment Procurement		
Contracts Signed for Contractors		
Network Deployment (Construction)		
Passed 10% Project Locations		
Passed 20% Project Locations		

P.B5. Professional Engineer Certification Template

Requires PE certification?

☒ Yes

☐ No

Professional Engineer Certification Template

BEAD Funded Connect Illinois Round 4

Certification

I, the undersigned professional engineer, certify that I have reviewed all technical information pertaining to the proposed project, including the following materials submitted as part of the application:

- Project Timeline Template
- Technical Narrative Document
- Project Network Design Shapefiles
- Network Design – Conduit Access Narrative (if applicable)
- Network Design – Fixed Wireless Technology Template (if applicable)
- Logical Network Diagram
- Project Cost Template¹

Based on the review above, I certify that:

- The materials submitted as part of this application's Project Plan are complete and accurate to the best of my knowledge; and
- The proposed network can deliver standard broadband installation of qualifying broadband service as defined by the BEAD program's performance requirements to all

Form: Project Submission Form

Section: B – Technical Project-Based Qualifications

Document required for application?: Yes

Overview:

- Allows **Professional Engineers to attest to the project's technical viability** in line with BEAD / State requirements, based on their review of a given project's relevant application materials

Note: The certifying Professional Engineer **must** review all technical material accompanying the Project Submission Form, including but not limited to form responses and existing attachments (e.g., technical narrative, network design)

Live demo to follow

P.C2. Model Letter of Credit

Requires PE certification?

☐ Yes

☒ No

Form: Project Submission Form

Section: C – Financial Project-Based Qualifications

Document required for application?:

No (*only required for awardees after selection*); *commitment to provide LoC from financial institution is required upon application*

Overview:

- **Exemplifies an irrevocable standby letter of credit** that meets NTIA guidelines and State requirements, which must be provided by applicants prior to entering a Connect Illinois Round 4 grant agreement should they be selected for a Connect Illinois Round 4 award

Note: Those leveraging the [NTIA's Letter of Credit Waiver](#) may choose to submit a qualifying Performance Bond instead of a Letter of Credit

Live demo to follow

Illustrative Model Letter of Credit

[Subject to Issuing Bank Requirements]

No. _____

[Name and Address of Issuing Bank]

[Date of Issuance]

[AMOUNT]

[EXPIRATION DATE]

BENEFICIARY

Illinois Office of Broadband
Illinois Department of Commerce and Economic Opportunity
1101 S. 2nd Street
Springfield, IL 62704

LETTER OF CREDIT PROVIDER

[Subgrantee Name]

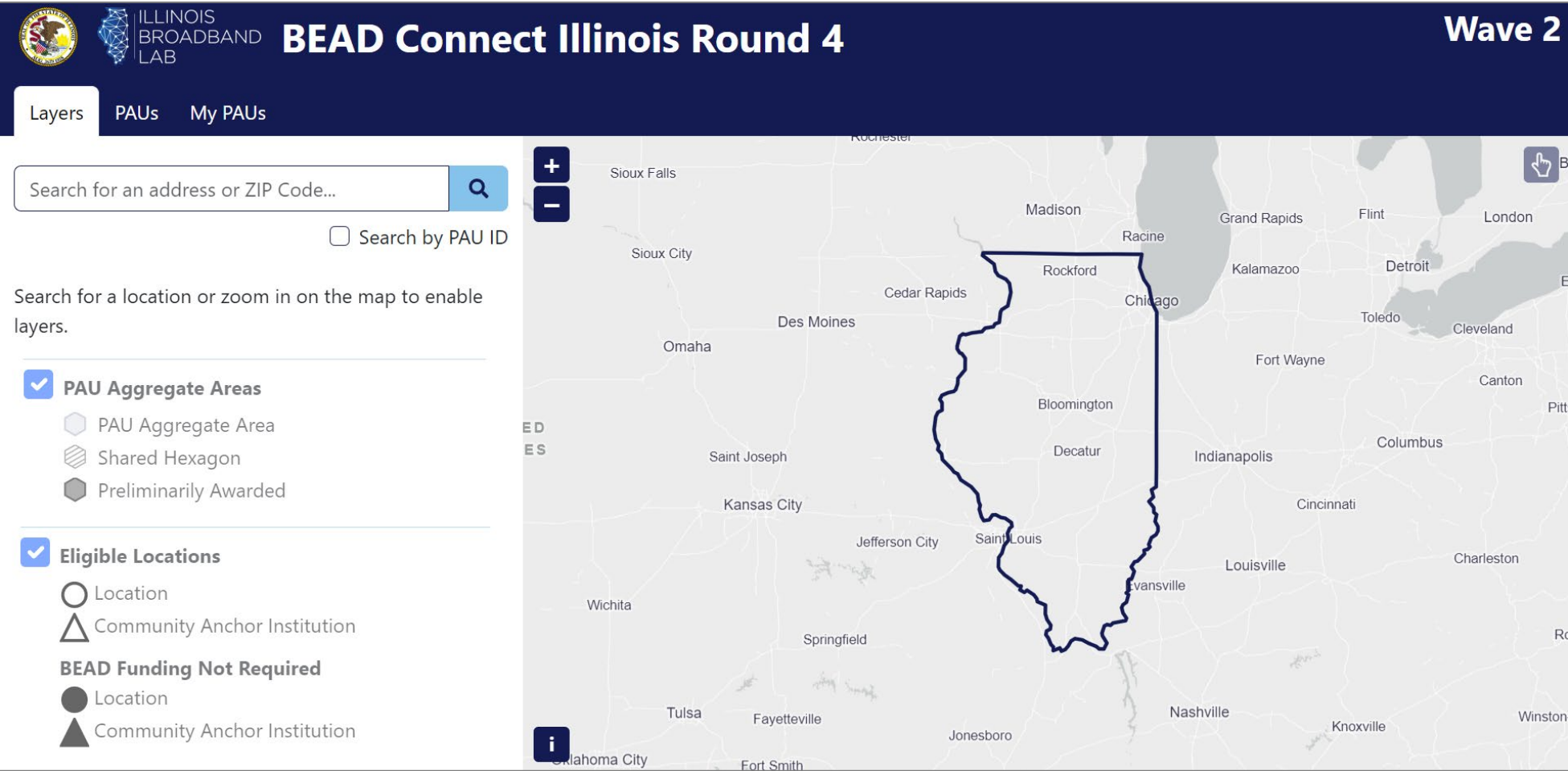
[Address]

Ladies and Gentlemen:

We hereby establish, at the request and for the account of [Subgrantee], in your favor, as required under the Broadband Equity, Access, and Deployment Program (BEAD) Notice of Funding Opportunity (NOFO), issued by the National Telecommunications and Information Administration (NTIA) of the U.S. Department of Commerce (DOC) in May 2022, pursuant to the

Project Area Selection Tool

<https://bead.connectednation.org/illinois/>



Source: Connect Illinois Round 4 Project Area Selection Tool as of May 27, 2025

Map Layers

Layer terminology

- 1 PAU Aggregate Areas:**
The hexagonal area surrounding locations that belong to the same PAU
- 2 Eligible Locations:**
Points on the map that belong to PAUs and are eligible to be connected through the BEAD program
- 3 BEAD Funding Not Required:**
Points on the map that no longer require BEAD funding due to sufficient evidence of existing service per the State's serviceability updates
- 4 Ineligible Locations:**
Locations that are not eligible for BEAD (i.e., classified as served)
- 5 High-Cost Areas:**
Census Block Groups that NTIA considers above average cost to serve
Project areas consisting of only Project Area Units in High-Cost Areas are exempt from the minimum 25 percent matching funds requirement

Source: Connect Illinois Round 4 Project Area Selection Tool as of May 27, 2025

The screenshot shows the 'Layers' panel of a web application. At the top, there are tabs for 'Layers', 'PAUs', and 'My PAUs'. Below the tabs is a search bar with the placeholder text 'Search for an address or ZIP Code...' and a magnifying glass icon. To the right of the search bar is a checkbox labeled 'Search by PAU ID'. Below the search bar is a text prompt: 'Search for a location or zoom in on the map to enable layers.' The main area of the panel contains a list of map layers, each with a numbered callout (1-5) and a checkbox. Callout 1 points to the 'PAU Aggregate Areas' section, which includes three sub-items: 'PAU Aggregate Area' (hexagon icon), 'Shared Hexagon' (hexagon with lines icon), and 'Preliminarily Awarded' (hexagon with dots icon). Callout 2 points to the 'Eligible Locations' section, which includes two sub-items: 'Location' (circle icon) and 'Community Anchor Institution' (triangle icon). Callout 3 points to the 'BEAD Funding Not Required' section, which includes two sub-items: 'Location' (circle icon) and 'Community Anchor Institution' (triangle icon). Callout 4 points to the 'Ineligible Locations' section, which includes one sub-item: 'Ineligible Location' (circle with red X icon). Callout 5 points to the 'High-Cost Areas' section, which includes one sub-item: 'High-Cost Area' (square icon). The checkboxes for 'PAU Aggregate Areas', 'Eligible Locations', and 'BEAD Funding Not Required' are checked, while the checkboxes for 'Ineligible Locations' and 'High-Cost Areas' are unchecked.

Layers PAUs My PAUs

Search for an address or ZIP Code...

☐ Search by PAU ID

Search for a location or zoom in on the map to enable layers.

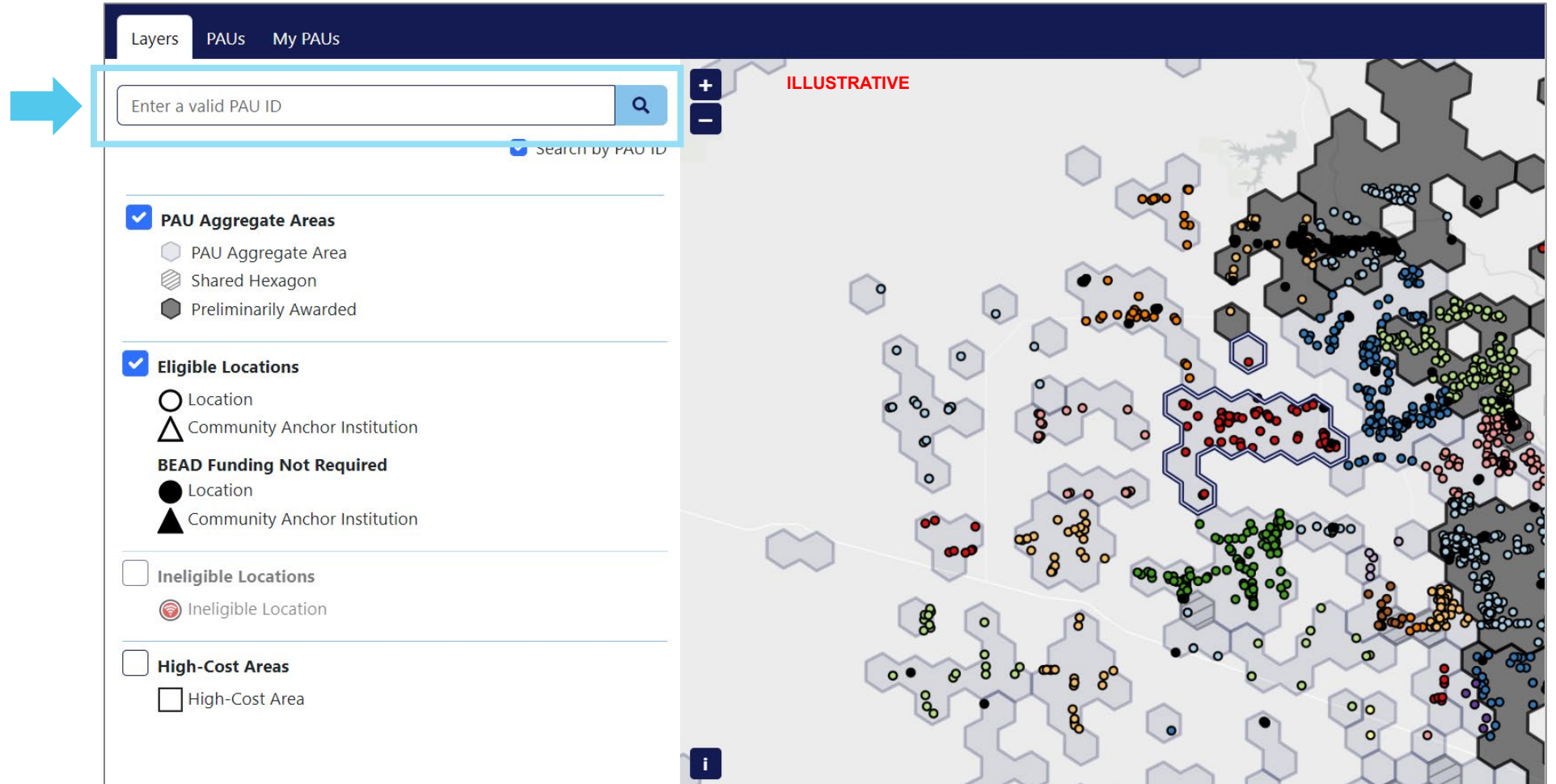
- ☒ **PAU Aggregate Areas**
 - ☐ PAU Aggregate Area
 - ☐ Shared Hexagon
 - ☐ Preliminarily Awarded
- ☒ **Eligible Locations**
 - ☐ Location
 - ☐ Community Anchor Institution
- ☒ **BEAD Funding Not Required**
 - ☐ Location
 - ☐ Community Anchor Institution
- ☐ **Ineligible Locations**
 - ☐ Ineligible Location
- ☐ **High-Cost Areas**
 - ☐ High-Cost Area

Click on the **check box** to toggle on or off layers to view different elements of the map

Location Search

Search bar:

Search for a location (e.g., address, zip code, county, town) to zoom to that area



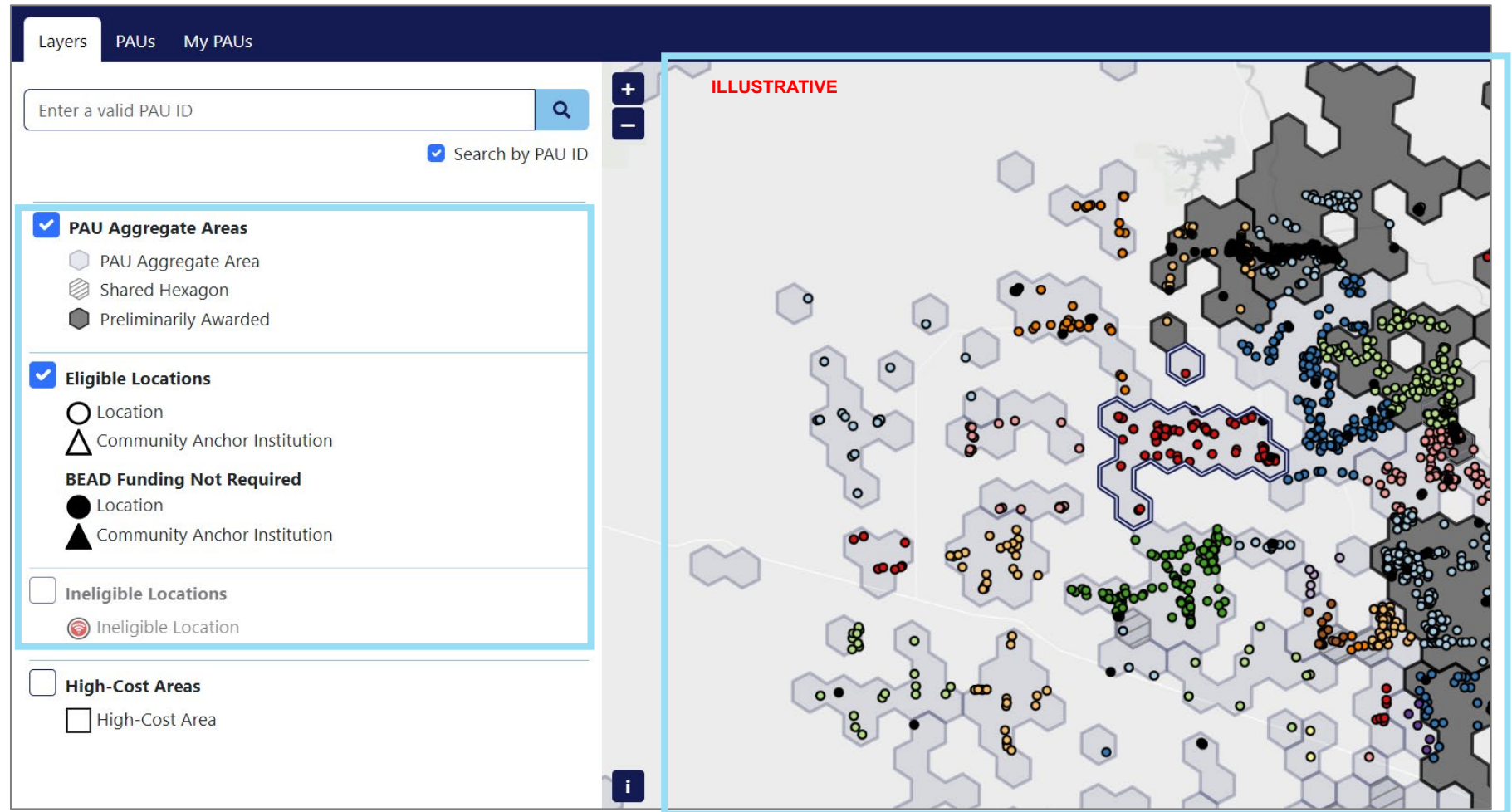
View Locations and Project Area Units

Map Legend:

Each **point** is a location (BSL / CAI)

Locations in the same **Project Area Unit (PAU)** share a color

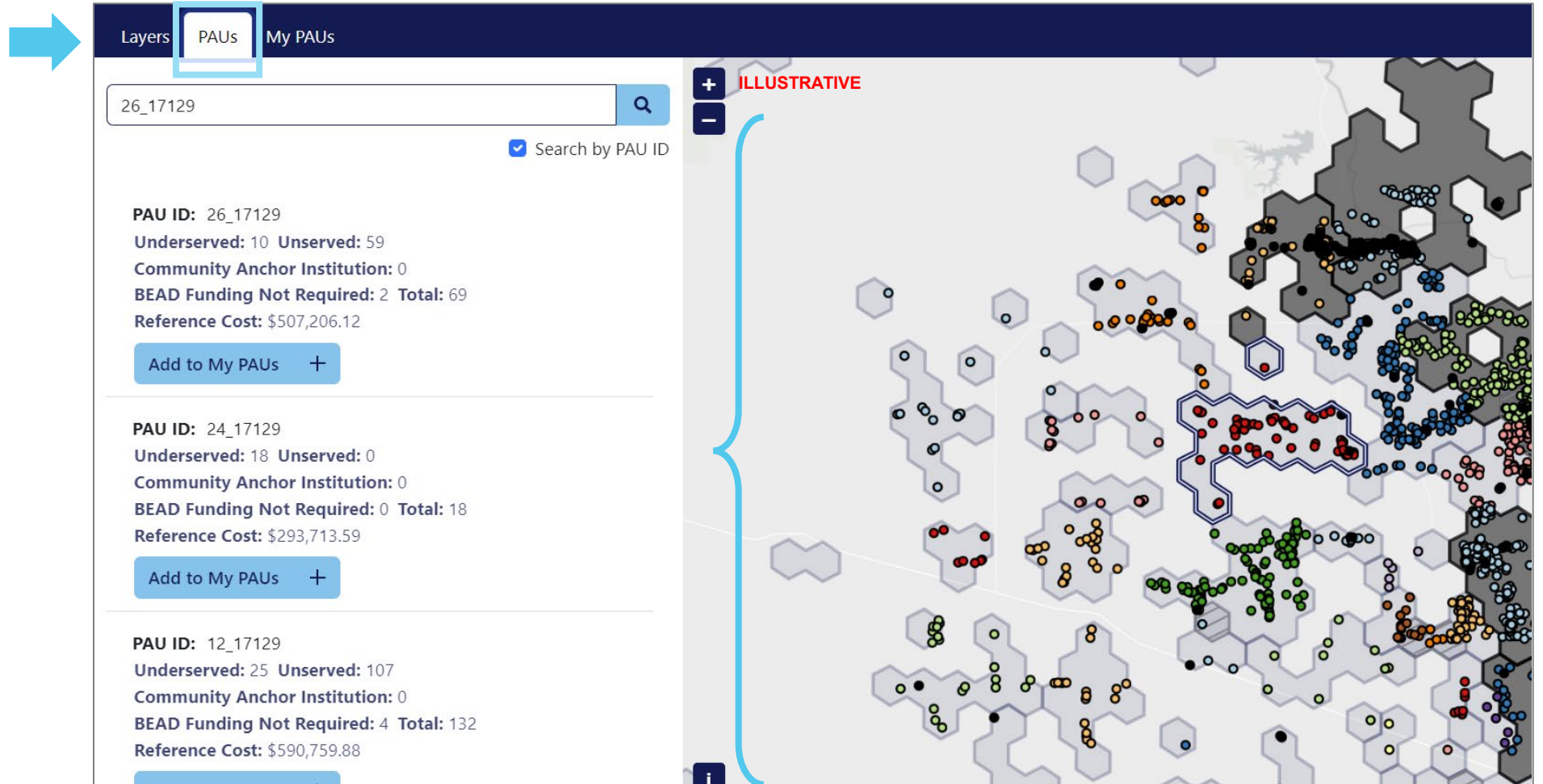
PAUs shaded in dark grey are preliminarily selected in Wave 1 and are no longer available



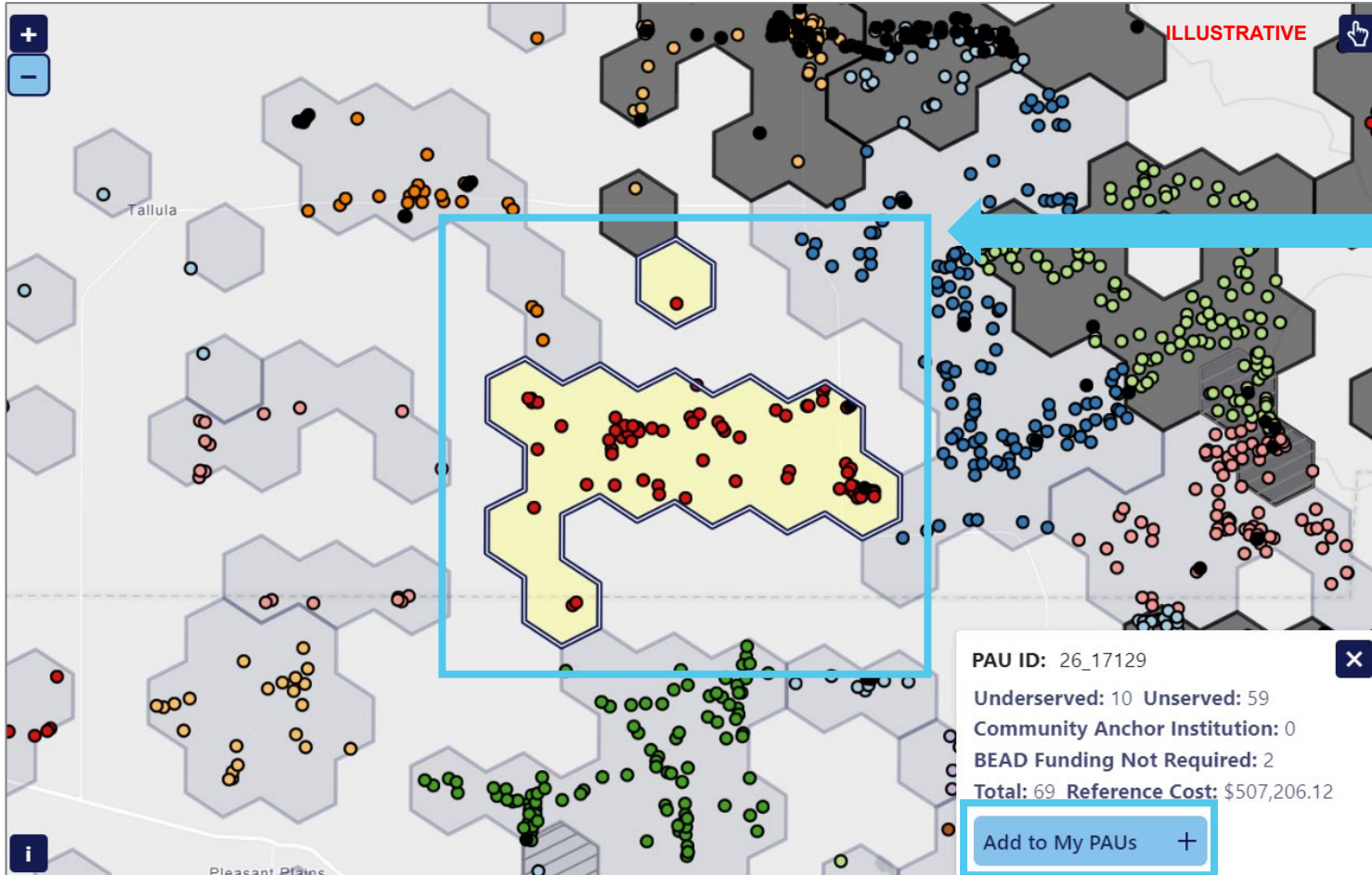
PAUs

PAUs tab:

On the PAUs tab, view a list of PAUs on the lefthand panel as you explore the map on the righthand panel



PAU Details & Adding a PAU

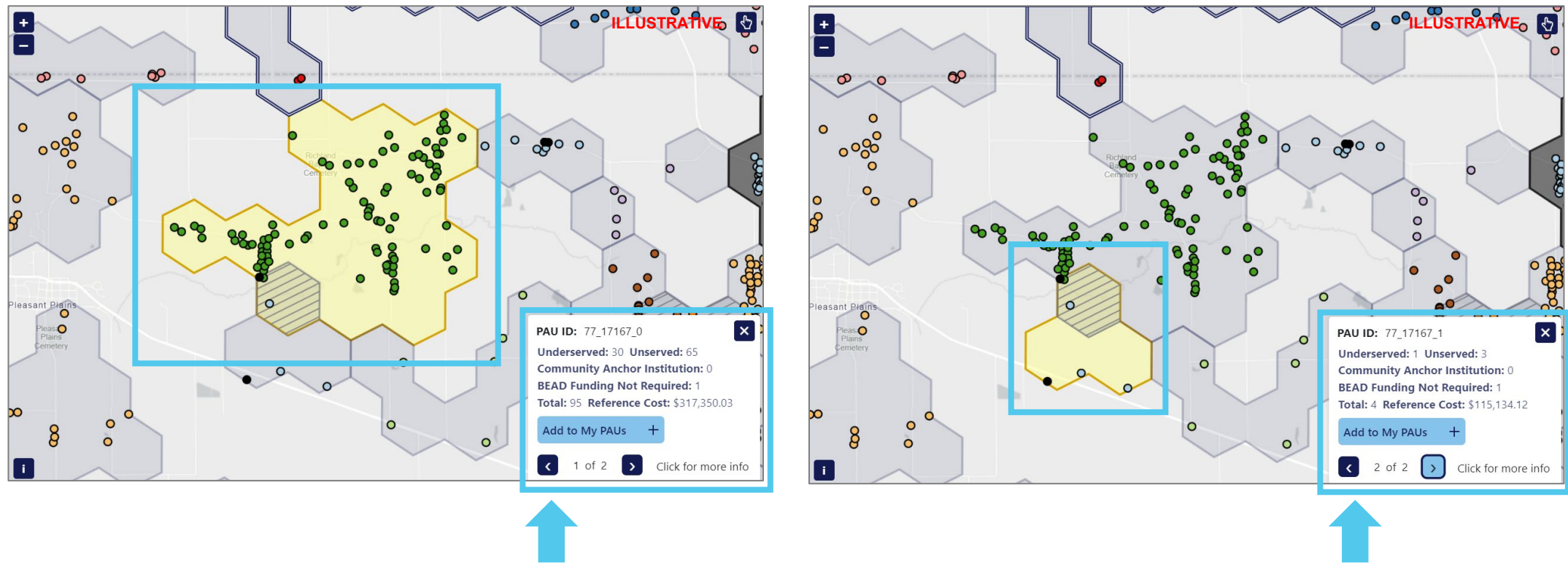


Adding a PAU from the map:

Click on a location or a hexagon where a location falls to view information about a PAU

Then, click “Add to My PAUs” to add it to your project

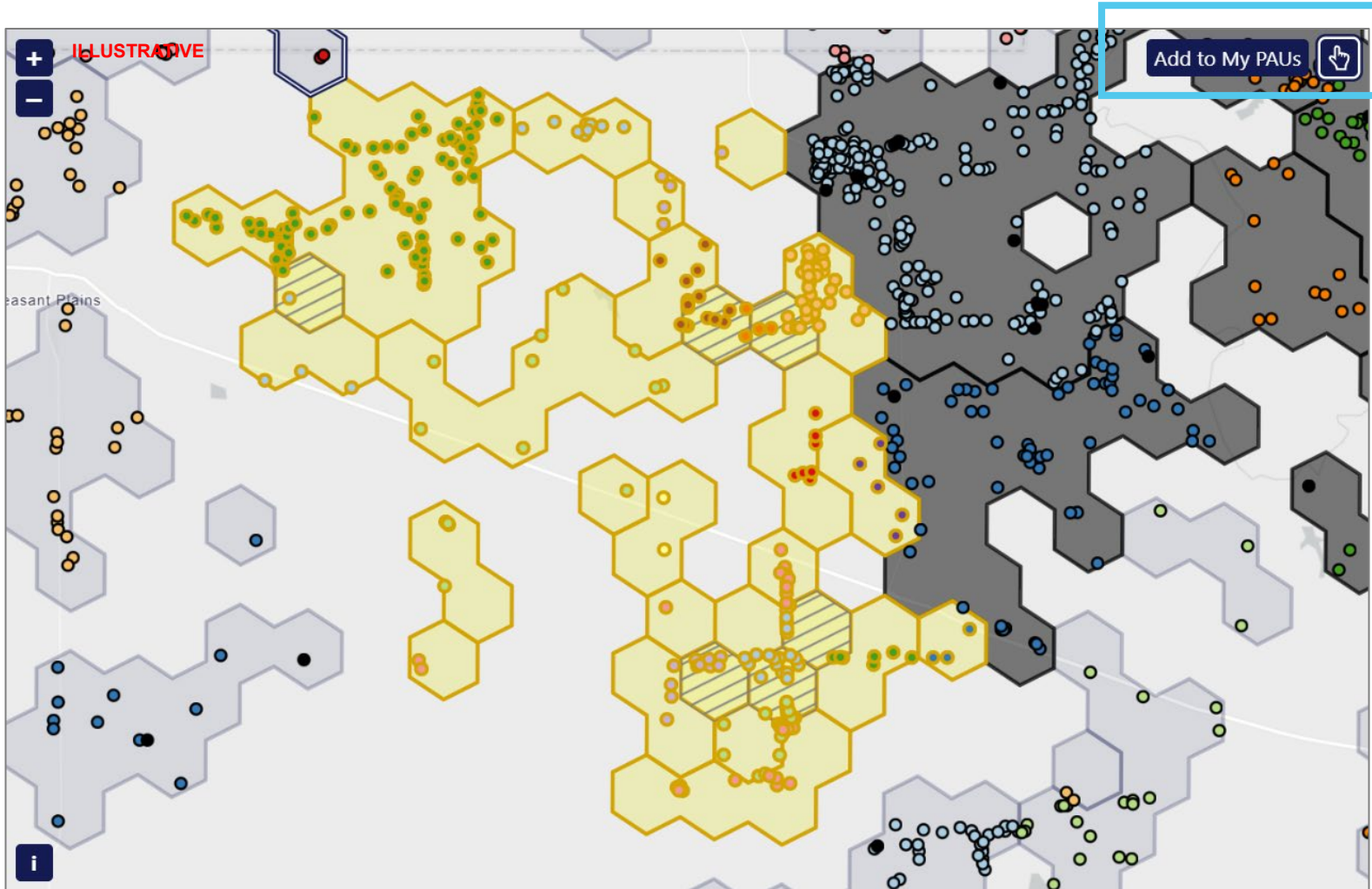
PAU Details & Adding a PAU – Shared Hexagons




PAUs with shared hexagons (marked in diagonal stripes)

If locations from different PAUs fall within the same hexagon, there is an option to toggle between the PAUs to ensure you're selecting the intended PAU

Bulk PAU Selection



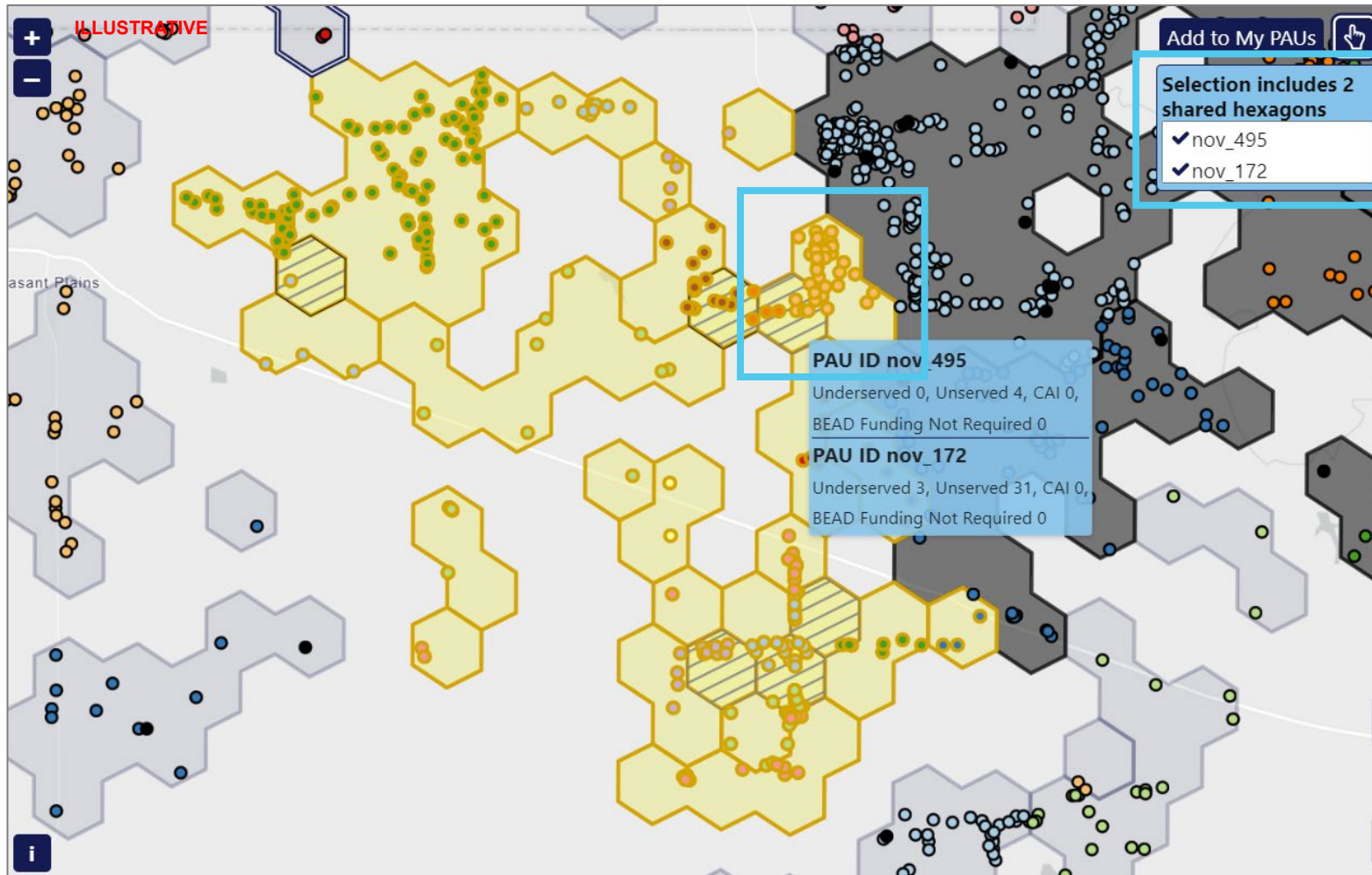
Bulk PAU selection

Use the **lasso tool** () to select more than one PAU or to lasso a group of PAUs – selected PAUs will be marked in yellow

Click a selected PAU again to remove it

Click “**Add to My PAUs**” to add all selected PAUs to a project area

Bulk PAU Selection – Shared Hexagons



Bulk PAU selection – overlapping PAUs

If locations from different PAUs fall within the same hexagon, there is an option to toggle between the PAUs to ensure you're selecting the intended PAU

Look for the note:
“Selection includes [#] shared hexagons”

Then, use the CNTRL key to select more than one (or all) PAUs based on the PAU ID

My PAUs

My PAUs tab:

View summary statistics about selected PAUs, including:

Count of all selected PAUs

Layers PAUs My PAUs

Search for an address or ZIP Code...

ILLUSTRATIVE ☐ Search by PAU ID

Summary Statistics

PAUs Locations Reference Cost

Total PAU Aggregate Areas: 12

Breakdown of location classifications

Layers PAUs My PAUs

Search for an address or ZIP Code...

ILLUSTRATIVE ☐ Search by PAU ID

Summary Statistics

PAUs Locations Reference Cost

Underserved: 51

Unserved: 148

Community Anchor Institution: 0

Total: 199

BEAD Funding Not Required: 6

Total Reference Cost

Layers PAUs My PAUs

Search for an address or ZIP Code...

ILLUSTRATIVE ☐ Search by PAU ID

Summary Statistics

PAUs Locations Reference Cost

Total Reference Cost: \$1,068,363.13

My PAUs – Must-have PAUs

Indicating “Must-Have” PAUs

Click on the **orange star** to indicate that a PAU is a **“Must-Have” PAU** for your project

This means that if this PAU is claimed by a higher scoring application, your project will not be auto-descoped during deconfliction

LayersPAUsMy PAUs

Search for an address or ZIP Code...

Q

ILLUSTRATIVE☐ Search by PAU ID

PAUs

Locations

Reference Cost

Total PAU Aggregate Areas: 12

PAU ID: nov_485

Underserved: 0 Underserved: 7

Community Anchor Institution: 0

BEAD Funding Not Required: 0 Total: 7

Reference Cost: \$53,340.71

Remove from My PAUs +

★

★

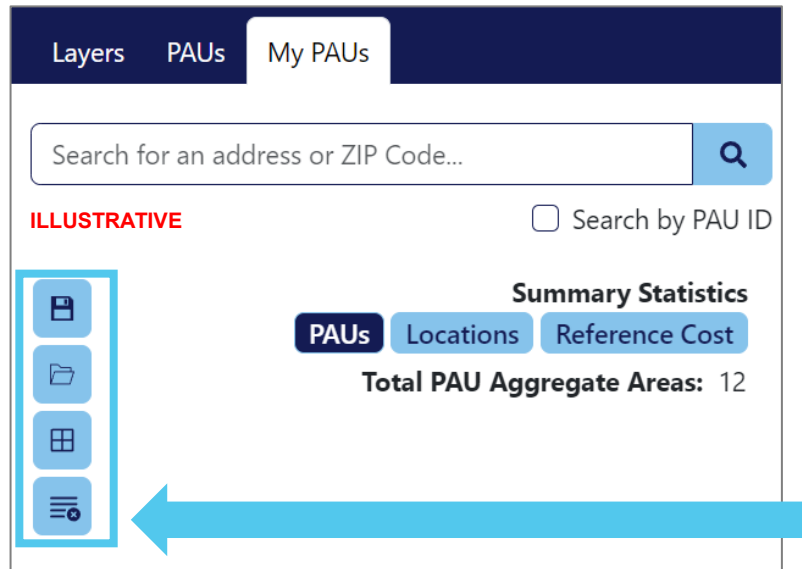
★

ILLUSTRATIVE

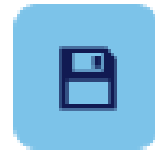
Underserved: 3 Underserved: 31

Community Anchor Institution: 0

My PAUs – Tools



Tools available in the My PAUs tab



Download and save PAUs as a CSV



Upload a saved CSV to continue where you left off



View PAUs at the location level in a table format



Delete all PAUs from “My PAUs”

Important Note

The tool will **not autosave** your work if you exit

Use the download feature () to **save** and return to your work

P.A2. Project Area Selection Sheet

Requires PE certification?

☐ Yes

☒ No

Form: Project Submission Form

Section: A – Project Overview and Locations Impacted

Document required for application?: Yes

Overview:

- Documents **applicant's proposed project area** based on the Project Area Selection Tool
- Automatically summarizes **key project characteristics** including:
 - **High-level statistics**
(e.g., project type, BSL count by technology type, CAI count, PAU reference cost)
 - **Gating criteria requirements**
(e.g., % not un-/underserved)

Live demo to follow

Connect Illinois Round 4 - Submission Summary	
Please review for accuracy and update any input tabs as needed prior to submission. Note, this page is automatically generated based on information populated in the input tabs.	
Submission Summary	
Project Type	
% of not Unserved/Underserved Locations Threshold Met	Threshold Not Met
Total PAUs Selected	0
Total PAUs' Reference Cost	\$0
Total BSLs Selected	0
# of Eligible Un/Underserved BSLs	0
# of All Un/Underserved BSLs in selected PAUs	0
# of No-BEAD Un/Underserved BSLs in selected PAUs	0
# Locations not Un/Underserved/Eligible CAIs Selected	0
% Locations not Un/Underserved/Eligible CAIs Selected	
# of BSLs by technology type	
Fiber-optic	0
% Fiber-optic	
Coaxial cable / HFC	0
Licensed Terrestrial Fixed Wireless	0
Licensed by-Rule Terrestrial Fixed Wireless	0
Unlicensed Terrestrial Fixed Wireless	0

P.A2. Project Area Selection Sheet – Submission Summary tab

How to review the Submission Summary tab

Project Type

- (i) Project technology type (Fiber, non-Fiber reliable technology, Alternative)
- (ii) Whether the project meets the threshold for locations not un/underserved to be included in the project

Total BSLs selected

Breakdown of (i) BEAD-eligible BSLs, (ii) No-BEAD BSLs, and (iii) additional locations not un/underserved that the applicants is including in the project

Total CAIs selected

Breakdown of (i) BEAD-eligible CAIs and (ii) No-BEAD CAIs

Connect Illinois Round 4 - Submission Summary	
Please review for accuracy and update any input tabs as needed prior to submission. Note, this page is automatically generated based on information populated in the input tabs.	
Submission Summary	
Project Type	
% of not Unserved/Underserved Locations Threshold Met	Threshold Not Met
Total PAUs Selected	0
Total PAUs' Reference Cost	\$0
Total BSLs Selected	0
# of Eligible Un/Underserved BSLs	0
# of All Un/Underserved BSLs in selected PAUs	0
# of No-BEAD Un/Underserved BSLs in selected PAUs	0
# Locations not Un/Underserved/Eligible CAIs Selected	0
% Locations not Un/Underserved/Eligible CAIs Selected	
# of BSLs by technology type	
Fiber-optic	0
% Fiber-optic	
Coaxial cable / HFC	0
Licensed Terrestrial Fixed Wireless	0
Licensed by-Rule Terrestrial Fixed Wireless	0
Unlicensed Terrestrial Fixed Wireless	0
Copper Wire	0
Non-geostationary Satellite (e.g., Low Earth Orbit Satellite)	0
Other non-reliable technology	0
Total Eligible CAIs Selected	0
# of All CAIs in selected PAUs	0
# of No-BEAD CAIs in selected PAUs	0

PAUs selected

Count and reference cost of all PAUs selected for the project

BSL count by technology

BSL count by technology type, as well as share of BSLs to be connected through fiber-optic (for Affordability scoring criteria)

Deep dive to follow

P.A2. Project Area Selection Sheet

– How to provide technology information for each PAU selected

How to provide technology information for proposed project:

A PAUs deployed with one technology type: Technology selection in “PAUs” tab

PAUs						
Instructions						
This tab captures your planned technology type for each PAU selected, to be used for Scoring criteria “Affordability.” ILLUSTRATIVE						
1. Columns B-G and J-M (i.e., areas highlighted in light grey) are automatically generated and should <u>not</u> be edited.						
2. Column H: Please fill in column H “Technology” for <u>all</u> rows with PAUs, to indicate the type of technology to be used to deploy broadband in each PAU.						
3. Column I: Please populate this column <u>ONLY IF</u> you selected “Other non-reliable technology” in Column H. If this applies for any given PAU row, please indicate the specific technologies to be used for that PAU.						
Note 1: Per BEAD, reliable technology refers to (i) fiber-optic; (ii) coaxial cable / hybrid fiber-coaxial (HFC); (iii) licensed terrestrial fixed wireless; (iv) licensed by-rule terrestrial fixed wireless. Note 2: If you select either “Mix of reliable technology” or “Mix of reliable and non-reliable technology” for any PAU, you <u>must</u> complete the “PAUs - Mixed Tech” tab.						
After filling out Columns H and I, check Cell O5 to confirm that your submission is valid, which will read “Valid Submission” if each cell has been filled out correctly. If Cell O5 reads “Invalid Submission,” please check Column M to see which row(s) are invalid and update your input accordingly based on indicators provided in Columns K and L.						
PAU ID	# Eligible BSLs	# Eligible CAIs	# Eligible locations (BSLs + CAIs)	# No BEAD locations (BSLs + CAIs)	Must-include status	Technology
nov_1928	1	0	1	0	no	Fiber-optic
nov_1049	2	0	2	0	no	Coaxial cable / HFC
nov_2426	1	0	1	0	no	Licensed Terrestrial Fixed Wireless
nov_1083	2	0	2	0	no	Licensed by-Rule Terrestrial Fixed Wireless
nov_2183	5	0	5	0	no	Unlicensed Terrestrial Fixed Wireless
nov_371	6	0	6	1	no	Copper Wire
nov_1421	2	0	2	0	no	Non-geostationary Satellite (e.g., Low Earth Orbit Satellite)
nov_1511	3	0	3	1	no	Other non-reliable technology
nov_103	3	0	3	0	no	Mix of reliable technology
nov_1656	1	0	1	0	no	Mix of reliable and non-reliable technology
nov_1075	4	0	4	1	no	
nov_1365	1	0	1	0	no	
nov_692	2	0	2	0	no	
19_17193_0	58	0	58	1	no	

Instructions Applicant Information Raw Data Input **PAUs** PAUs - Mixed Tech Additional Locations

B PAUs deployed with mix of technology (if applicable): Per-technology BSL count in “PAUs – Mixed Tech” tab

Information about PAUs using mix of technology deployment						
Instructions						
This tab is <u>only</u> required for applicants who have PAUs to be covered via a mix of technology. ILLUSTRATIVE						
If you had any PAU in the “PAUs” tab listed as either “Mix of reliable technology” or “Mix of reliable and non-reliable technology”, you <u>must</u> complete this tab.						
1. Columns B-D are automatically generated to import data from the “PAUs” tab, and should <u>not</u> be edited. Cells in Column D with “Mix of reliable technology” or “Mix of reliable and non-reliable technology” will be highlighted in orange. These are the only rows requiring input in Columns E-L, and M if applicable.						
2. Columns E-L should be populated <u>only</u> for those PAUs with technology listed as either “Mix of reliable technology” or “Mix of reliable and non-reliable technology.” Cells requiring input will be indicated with a yellow highlight. For applicable PAUs only, please fill in the number of BSLs within the given PAU to be deployed with the respective technology listed on the column header. If no BSLs in your mixed-technology PAU will be deployed with the given technology, please enter 0. Note, these figures should NOT include CAI counts. Please account for BSLs only.						
3. Column M is required <u>only</u> if you have BSL(s) in mixed-technology PAU(s) to be deployed using other non-reliable technology. Cells requiring input will be indicated with a yellow highlight. If this applies, please indicate which technology will be used to deploy to the BSLs accounted for in the Column “Other non-reliable technology” (Column L).						
After filling out Columns E-L where applicable, check Cell P5 to confirm that your submission is valid, which will read “Valid Submission” if each cell has been filled out correctly. If Cell P5 reads “Invalid Submission,” please check Column N to see which row(s) are invalid and update your input accordingly.						
PAU ID	# Eligible BSLs	Technology	Fiber-optic	Coaxial cable / HFC	Licensed Terrestrial Fixed	Licensed by-Rule Terrestrial Fixed
nov_1928		Mix of reliable technology				
nov_1049		Mix of reliable and non-reliable technology				
nov_2426						
nov_1083	2	Fiber-optic				
nov_2183	5	Fiber-optic				
nov_371	6	Fiber-optic				

Instructions Applicant Information Raw Data Input PAUs **PAUs - Mixed Tech** Additional Locations Submission Summary

4

Live Demo of Connect Illinois Round 4 Application Templates (Part 1)

In today's session, we will cover:



E.F1.A. Ownership Information Template



E.G3/G4. Existing Broadband Projects Template



P.B1. Project Timeline Template



P.A2. Project Area Selection Sheet Template



P.B5. Professional Engineer Certification Template



P.C2. Model Letter of Credit

Additional Resources & Helpful Links

Connect Illinois Round 4 NOFO: [\[Link\]](#)

Connect Illinois Round 4 App Guidebook: [\[Link\]](#)

BEAD Landing Page: [\[Link\]](#)

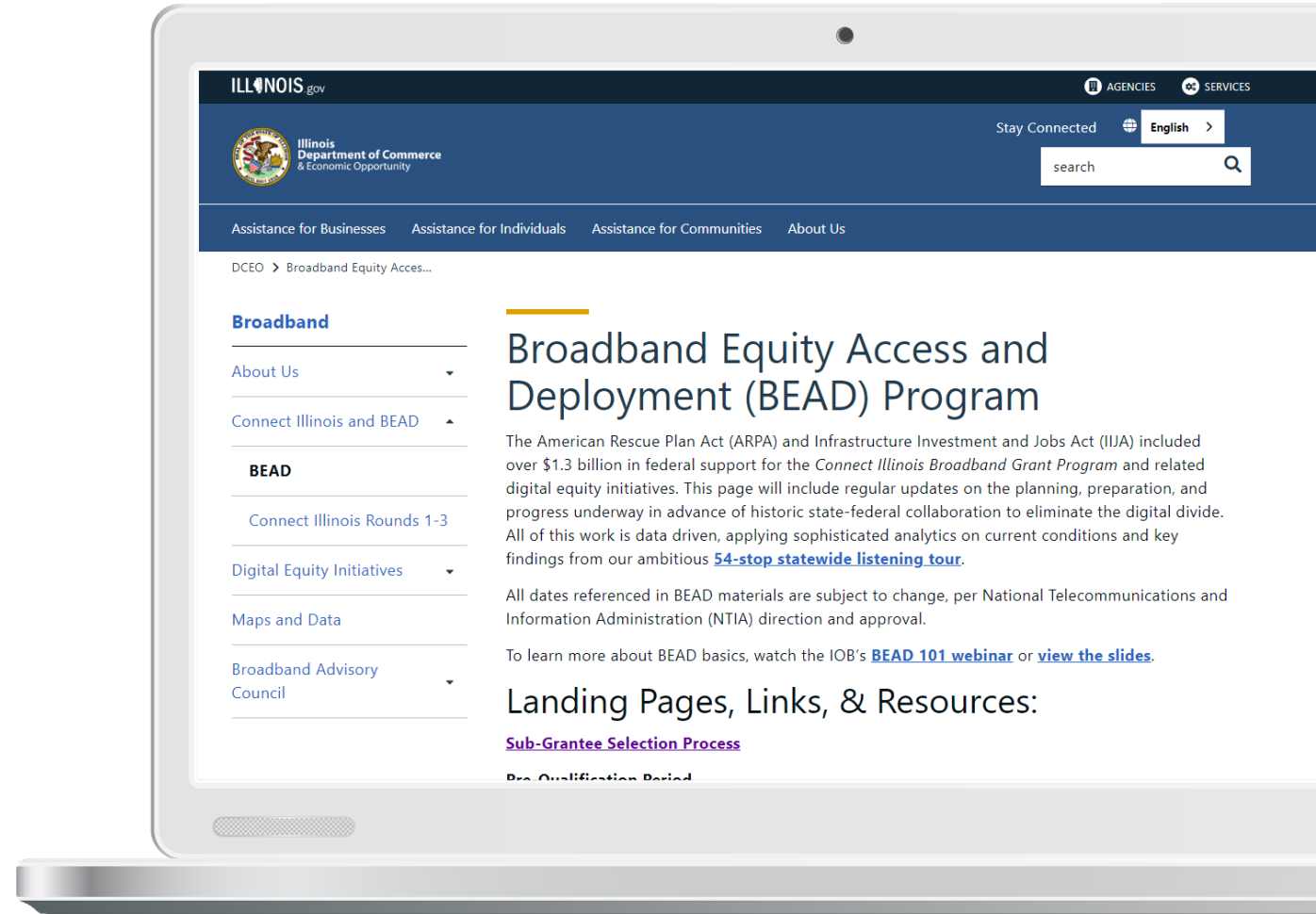
BEAD Subgrantee Selection Process Page: [\[Link\]](#)

- Includes materials from BEAD Deep Dive Webinar Series and FAQs

Connect Illinois Initial Proposal, Volume II: [\[Link\]](#)



For further questions, please email broadband@illinois.gov





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