

California Advanced Services Fund



Public Workshop
April 29, 2024



California Public
Utilities Commission

Agenda

10:00-10:10	Introduction, Welcome and CASF Program Highlights
10:10-10:20	Commissioner Darcie L. Houck, Opening Remarks
10:20-10:30	Deputy Director's Remarks
10:30-11:10	CASF Overview General Panel
11:10-11:40	Broadband Public Housing Account Panel
11:40-12:40	Lunch Break
12:40-1:10	Tribal Technical Assistance Program Panel
1:10-1:40	CPUC Broadband Programs
1:40-2:00	Q&A
2:00 PM	Adjourn

Introduction, Welcome and CASF Program Highlights

Selena Huang
Program Manager



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CASF Key Highlights

CASF Account	In 2023		Since 2008	
	Total Projects	Total Awarded	Total Projects	Total Awarded
Infrastructure	1	\$688,431	96	\$298,620,014
Infrastructure Line Extension Program	2	\$1,773,323	4	\$2,071,101
Tribal Tech. Assistance	7	\$1,019,900	67	\$5,819,750
Consortia	15	\$10,333,173	62	\$29,063,200
Adoption	125	\$23,262,426	403	\$45,632,605
Pub. Housing	37	\$1,982,450	498	\$17,075,784
Total:	187	\$39,059,703	1,130	\$398,282,454



CASF Key Highlights

- **Infrastructure Account**—On June 1, 2023, we received 74 applications requesting a total of over \$527 million.
- **Public Housing Account**—Expanded eligibility for non-publicly supported housing developments and project costs in D. 24-03-041.
- **Tribal Technical Assistance**—Expanded program and increased support for market studies, feasibility studies, and business plans in D. 24-03-041.
- **Electronic Claims and Applications Portal (eCAP)**—Deployed a web portal for CASF grantees to submit payment requests to the CPUC.



Opening Remarks



**Commissioner
Darcie L. Houck**



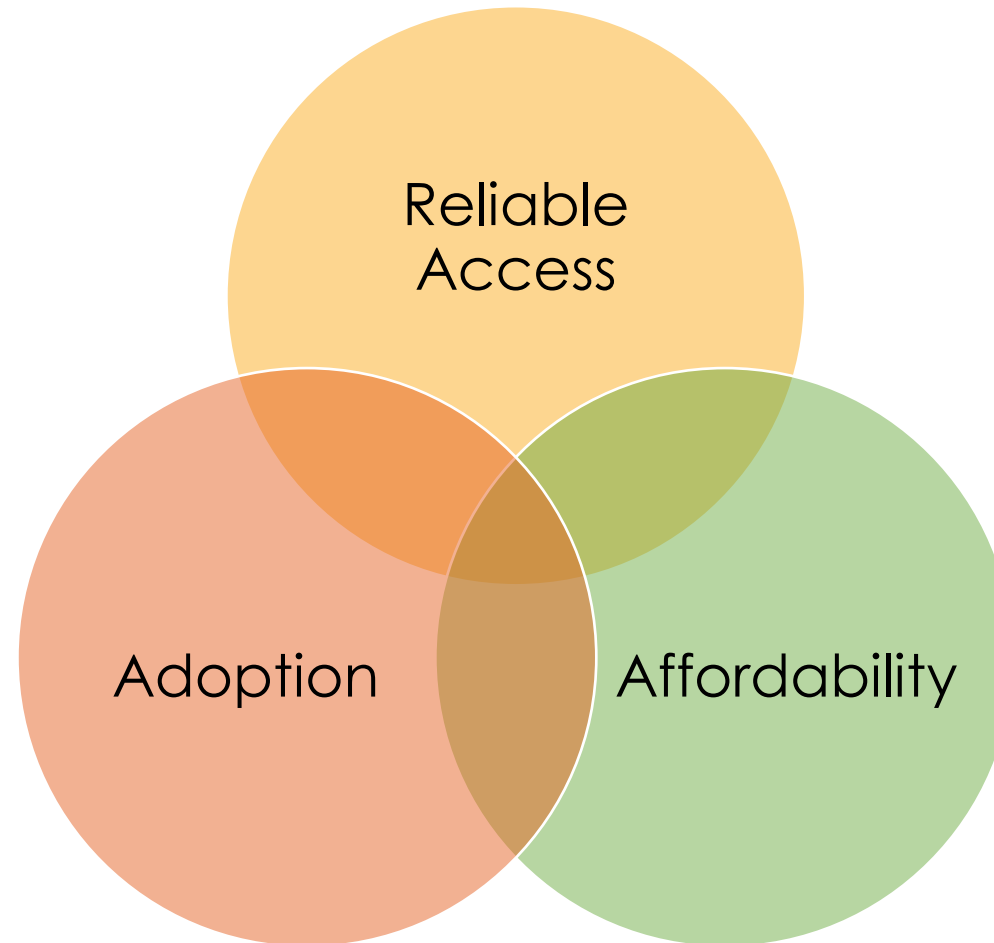
Deputy Director's Remarks



**Deputy Director
Maria Ellis**



Closing The Digital Divide



Tools For a Critical Moment



CASF General Overview Panel

- Broadband Adoption Account
- Rural and Urban Regional Broadband Consortia Account
- Public Housing Account
- Tribal Technical Assistance Program
- Broadband Infrastructure Grant Account
- Line Extension Program
- Broadband Mapping



Broadband Adoption Account

Bill Goedecke, Senior Regulatory Analyst



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Broadband Adoption Account

Pursuant to Public Utilities Code section 281 the Adoption Account provides grants to increase publicly available/after-school broadband access and digital inclusion such as grants for digital literacy training to communities with limited broadband adoption, giving preference to communities with demonstrated low broadband access.

402 projects are either completed or ongoing, for a total funding of \$40.6 million, serving up to 374,892 participants.



Overview of the Program – what is funded

- Education and outreach efforts and materials
- In Classroom and Take-home computing devices, computer software, printers, and hot spots (non-residential only)
- Technical support
- Desks and chairs
- For Digital Literacy Projects, curriculum preparation and distribution



- Network routers, switches, modems, and cabling deployed for the purpose of establishing a space for broadband access or digital literacy
- Staffing including digital literacy instructors, staff for monitoring the designated space, or staff for administering call centers
- Administrative costs





Grantee Focus – Oakland Tech Exchange



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Please see the Adoption Account website for information on how to apply for funding at <https://www.cpuc.ca.gov/industries-and-topics/internet-and-phone/california-advanced-services-fund/casf-adoption-account>

Submit any questions regarding the Adoption Account to casf_adoption@cpuc.ca.gov



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CASF Rural & Urban Regional Broadband Consortia Account Program

Julie Lane, Regulatory Analyst



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CASF Rural & Urban Regional Broadband Consortia Account Program Overview

Background:

- On May 19, 2022, the CPUC adopted Decision 22-05-029, which outlines the Consortia Account guidelines. The Consortia Account provides grants to facilitate deployment of broadband services by assisting grant applicants in the application and project development process.
- See Appendix 3 for Application Requirements, Forms, and Guidelines
- [Decision 22-05-029 Appendix 3](#)

Eligibility:

- Consortia grantees may include representatives of local/regional government, public safety, education, health care, libraries, community-based orgs, parks & recreation, agricultural, business, workforce orgs, and air pollution control or air quality management districts.
- [Consortia Grant Admin Manual \(Sept 2023\)](#) has specific instructions & forms
- Application window is currently closed

Grantees can file payment requests online:

- Applicants can submit electronic claims through our eCAP portal.

CASF Rural & Urban Regional Broadband Consortia Account Supported Activities

Consortia Objectives are consistent with Pub. Util. Code Section 281 and Support:

- **Collaborating with CPUC to engage** Local Officials, Internet Service Providers, Stakeholders, and Consumers
 - Regarding priority areas and cost-effective strategies to achieve the broadband access goal
- **Identifying CASF infrastructure projects**, where providers can expand and improve their infrastructure and service offerings to achieve the goal of broadband deployment to 98 percent of households in each consortia region.
- **Assisting infrastructure applicants** in the project development or grant application process by **conducting activities that lead to infrastructure applications such as:**
 - **Engaging local government officials and communities** to explain regional broadband needs and solutions
 - **Conducting inventory of public assets:**
 - Right-of-ways, publicly owned towers, public utility poles, equipment housing, publicly owned property
 - Aggregate demand, including speed tests and the identification and updates of priority areas, as needed.
- **Assisting the CPUC** in publicizing requests for wireline testing volunteers in areas, as needed.

Broadband Public Housing Account

Taylor Cheim, Regulatory Analyst



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Public Housing Account

The Broadband Public Housing Account funds grants and loans to finance projects to connect broadband networks offering free broadband service for residents of low-income communities.

\$15 million funding

- Assembly Bill (AB) 1299 established the account; extended by SB 745
- SB 156 made significant changes to the Broadband Public Housing Account rules and eligibility

Eligibility

- Publicly supported housing developments
- Farmworker housing
- Tribal Housing
- Other housing developments
- Mobilehome parks
- Census Block Group Projects (low-income)

Project Types

- BPHA Infrastructure
- BPHA Internet Extension
 - The Commission will award grants to finance up to 100 percent of the costs to install last mile infrastructure, inside wiring and broadband network equipment but will not finance operations and maintenance costs through this program.

Funding Overview

INFRASTRUCTURE PROJECTS

- All broadband networking equipment
- *But not personal computers, laptops, handheld or human interface devices.*
- Low voltage contracting work and
- *Major rehabilitation, demolition or construction work will not be funded.*
- Engineering and designing documentation
- Hardware warranty.
- Installation at the Minimum Point of Entry (MPOE)
- Taxes, shipping and insurance costs (if applicable)

Funding Overview

EXTENSION PROJECTS

- Project labor and materials, including design, permitting, installation, supervision, and telecommunications equipment.
 - Including but not limited to trenching, boring, backfill, cable, and conduits.
 - Wired and/or wireless installations and turning up service.
- Cost for all last mile infrastructure. E.g., wired installations to interconnect from an MPOE to a middle mile network.
- Cost of middle-mile infrastructure that is needed to achieve the last mile connection.
- Costs to lease access to property or for Internet backhaul services for a period not to exceed five years.

Key changes to the Broadband Public Housing Account made by (D.) 24-03-021:

- Increased total project caps and per unit caps for ministerial review and approval
- Established eligibility for non-publicly supported housing developments including tribal, mobile homes and other housing developments
- Increased up to 100 percent of the costs to install last mile infrastructure, inside wiring and broadband network equipment but will not finance operations and maintenance costs
- Expanded project eligibility to include internet extension projects
- Expanded scope of costs eligible for reimbursement to interconnection and backhaul costs
- Provided tenant protections for applicants other than publicly supported, tribal housing developments and farmworker housing

Opportunities for Funding

- Application forms and instructions will be made available by May 1, 2024. Applications must be received on or before the following dates to be considered:
 - July 1, 2024
 - January 1, 2025, and so on until funds are exhausted.
 - Any deadline falling on a holiday, or a weekend will be extended to the following business day.

Contact Information

- Steven Oh, Senior Telecom Engineer, steven.oh@cpuc.ca.gov
- Taylor Cheim, Analyst, taylor.cheim@cpuc.ca.gov
- BPHA Inbox: CPUC_Housing@cpuc.ca.gov

- Website: <https://www.cpuc.ca.gov/industries-and-topics/internet-and-phone/california-advanced-services-fund/casf-public-housing-account>

Tribal Technical Assistance Grant Program

Russ McAvey, Senior Regulatory Analyst



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Tribal Technical Assistance – Program Overview

Previous Program

- Adopted on August 6, 2020 (Decision 20-08-005)
- \$150,000 max per Tribe, per fiscal year
- Technical assistance to improve voice and broadband service
- Includes California Tribes with or without federal recognition
- Reservations, trust lands, and surrounding areas
- Quarterly Applications (January 1, April 1, July 1, October 1)

Current Expanded Program

- Modified on March 7, 2024 (Decision 24-03-041)
- Increased Subsidy Level to \$250,000 max per Tribe, per fiscal year
- Speed requirements increased to a minimum of 25 Mbps download/ 3 Mbps upload
- Provides for multiple work products per grant
- Expanded list of activities to include:
 - Studies: Environmental and engineering, feasibility & design
 - Reports: Needs assessments, market studies, broadband strategic plans, or business plans
 - Grant writing, Consultant services
 - A maximum of 15% for administrative costs, Tribal staff hours.

Tribal Technical Assistance to 37 Tribes

TTA program, since 2020, has approved 70 grants to 37 Tribes totaling \$6,391,650.

- 34 completed projects
 - Total grant payments \$2,255,725
-
- Big Sandy Rancheria Band of Western Mono Indians of CA
 - Big Valley Rancheria of Pomo Indians of California
 - Bishop Paiute Tribe
 - Blue Lake Rancheria Tribe
 - Bridgeport Indian Colony
 - Campo Band of Mission Indians
 - Chemehuevi Tribe
 - Colorado River Indian Tribes
 - Colusa Indian Community Council
 - Elk Valley Rancheria California
 - Ewiiapaayp Band of Kumeyaay Indians
 - Fort Bidwell Indian Community
 - Fort Independence Indian Community
 - Habematolel Pomo of Upper Lake
 - Hoopa Valley Tribe (HVPUD)
 - Karuk Tribe
 - La Jolla Band of Luiseno Indians
 - Lipay Nation of Santa Ysabel
 - Lone Pine Paiute-Shoshone Tribe
 - Los Coyotes Band of Cahuilla and Cupeno Indians
 - Manzanita Band of Diegueno Mission Indians
 - Mechoopda Indian Tribe of Chico Rancheria, California
 - Middletown Rancheria Band of Pomo Indians
 - Morongo Band of Mission Indians
 - North Fork Rancheria of Mono Indians of California
 - Paskenta Band of Nomlaki Indians
 - Picayune Rancheria of the Chukchansi
 - Quechan Indian Tribe
 - Resighini Rancheria
 - Round Valley Indian Tribe
 - San Pasqual Band of Mission Indians
 - Santa Rosa Band of Cahuilla Indians
 - Santa Ynez Band of Chumash Indians
 - Sherwood Valley Band of Pomo Indians
 - Tolowa Dee-Ni' Nation
 - Tule River Indian Tribe
 - Yurok Tribe

Contact Information

- Christopher Poschl, *Program and Project Supervisor*, christopher.poschl@cpuc.ca.gov
- Russ McAvey, *Senior Regulatory Analyst*, russell.mcavey@cpuc.ca.gov
- TTA Inbox: tribal_tech_assist@cpuc.ca.gov

Website: <https://www.cpuc.ca.gov/industries-and-topics/internet-and-phone/california-advanced-services-fund/tribal-technical-assistance>

CASF Broadband Infrastructure Grant Account

Heyward Daluz, Regulatory Analyst



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CASF Broadband Infrastructure Grant Account

Provides grants to eligible applicants to build and deploy broadband networks in underserved areas throughout the State of California.

- Historically awarded \$466,620,014 since 2009 for 140 projects
- Awarded \$298,620,014 since 2008 for 96 projects
- 72 Last Mile projects, 7 Middle Mile, 17 Hybrid
- 320,516 Households served by CASF funded projects



Recent CASF Infrastructure Highlights

- 74 Applications requesting \$527 million dollars in funding
- Approved 3 infrastructure projects (2023 application cycle)
- Six projects were completed across 6 counties
- \$13.8 Million in payments to 15 projects



Contact Information

- CASF Application Questions: CASF_Application_Questions@cpuc.ca.gov
- Correspondence/Questions regarding approved projects: CASF_Infrastructure_Grant_Administrator@cpuc.ca.gov
- CASF Workshop inquiries: CASF_Workshop@cpuc.ca.gov
- Website: <https://www.cpuc.ca.gov/industries-and-topics/internet-and-phone/california-advanced-services-fund/casf-infrastructure-grant>

Line Extension Program

Ben Swearingen, Regulatory Analyst



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Line Extension Program

- AB 1665 (2017) created the Line Extension Program (LEP) to offset the cost to low-income households of connecting their home or property.
- Program rules established with [Decision 19-04-022](#). Currently drafting revised LEP rules.
- \$5 million initial LEP fund. Over \$2 million in LEP grant funding awarded.
- To apply for an LEP grant, please see our [CASF Line Extension Program webpage](#) and scroll down to 'Applying for Funds'.



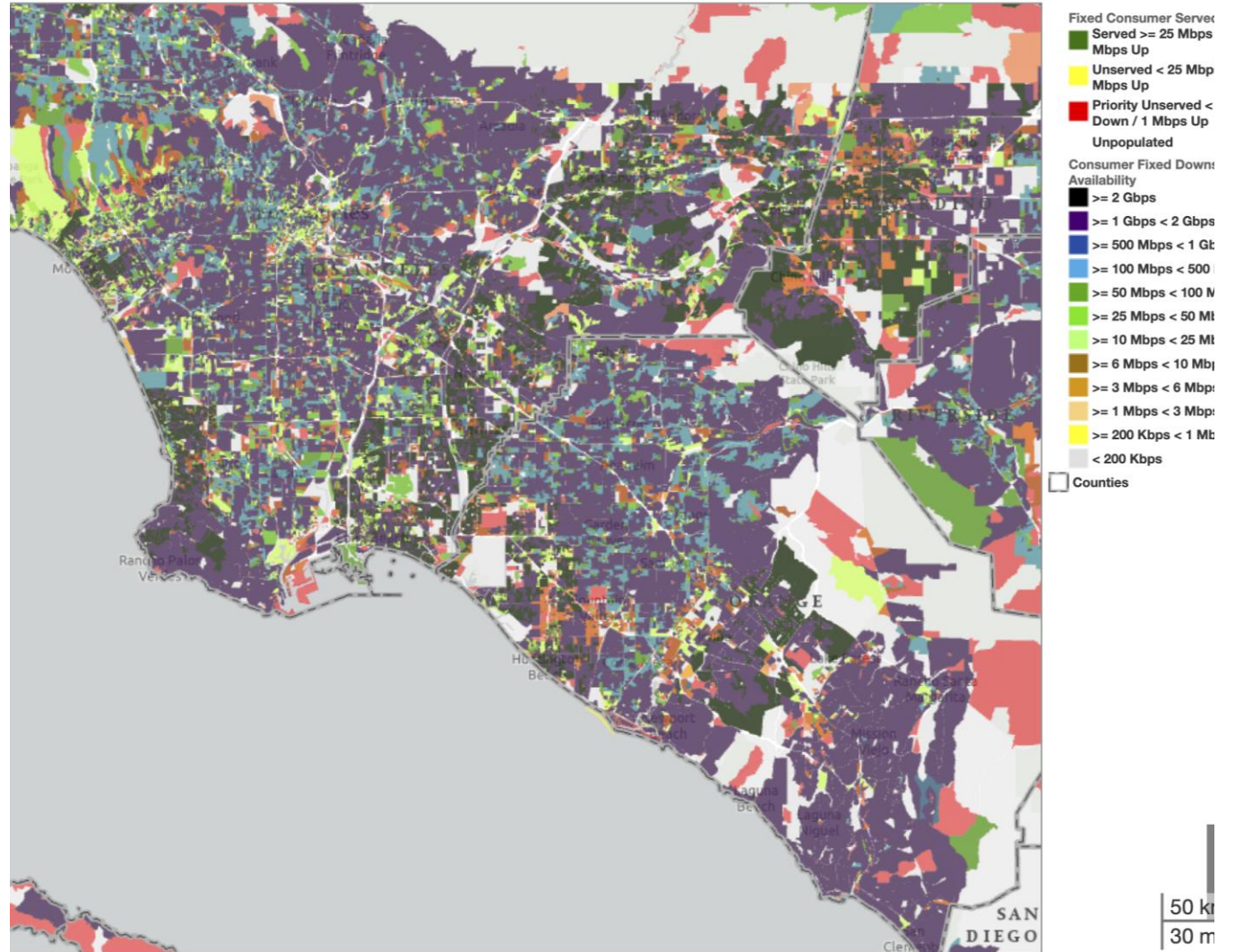
Broadband Mapping Program

Christopher Bates, Research Data Analyst



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CALIFORNIA
Interactive Broadband Map



Broadband Mapping Program

<https://www.broadbandmap.ca.gov/>

- The California Broadband Data Collection.
- The California Interactive Broadband Map.

broadbandmapping@cpuc.ca.gov & broadbandfeedback@cpuc.ca.gov

Leave Feedback on the Map

<https://www.broadbandmap.ca.gov/>

1. Select the "Address Search" Tool.
2. Enter the Address to for Feedback in the Search Box.
3. Click "Load Location"
4. Fill out and submit the Broadband Feedback Survey

The screenshot displays the California Interactive Broadband Map interface. On the left, a sidebar contains various map layers and tools. The 'Address Search' tool is highlighted with a yellow circle labeled '1'. The main map area shows a street grid in San Francisco with a location pin at 505 Van Ness Ave. A blue box with a yellow circle labeled '2' points to the search bar. A 'Submit public feedback for this address?' dialog box is overlaid on the map, with a 'YES' button highlighted by a yellow circle labeled '3'. On the right, the 'SEARCH PROVIDERS BY ADDRESS' panel shows the address '505 Van Ness Ave, San Francisco, California, 94102' and a 'Load Location' button. Below this, a 'Results' section lists providers: Comcast Cable Communications, LLC (1200 Mbps downstream, 35 Mbps upstream), AT&T Service, Inc (18 Mbps downstream, 2 Mbps upstream), and Verizon Wireless (1000 Mbps downstream, 50 Mbps upstream).

broadbandmapping@cpuc.ca.gov & broadbandfeedback@cpuc.ca.gov

Broadband Public Housing Account Panel

Moderated by Taylor Cheim, Analyst
for the CASF Broadband Public
Housing Account



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Our Panelists

- **Naveed Ashraf** | Chief Innovation Officer & IT Director for the City of Vallejo
- **Dana Cleary** | Director of Real Estate Development for CHISPA Housing
- **Matthew Rantanen** | Director of Technology for the Southern California Tribal Chairmen's Association (SCTCA) and the Tribal Digital Village Initiative





City of Vallejo Broadband Update

www.VIPFiber.com

The logo for Vallejo's Internet Provider (VIP) features the letters "VIP" in a large, white, sans-serif font. To the left of the letters are three horizontal bars of varying lengths, colored orange, blue, and yellow from top to bottom. The background is a dark blue gradient with light streaks.

POWERED BY
SYBER FIBER 

Vallejo's Internet Provider
Get Connected www.vipfiber.com



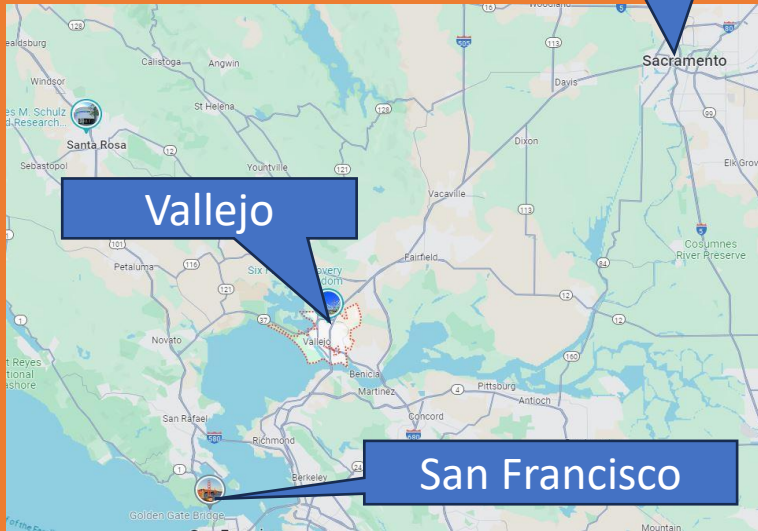
City of Vallejo

– Our
Community

Sacramento

Vallejo

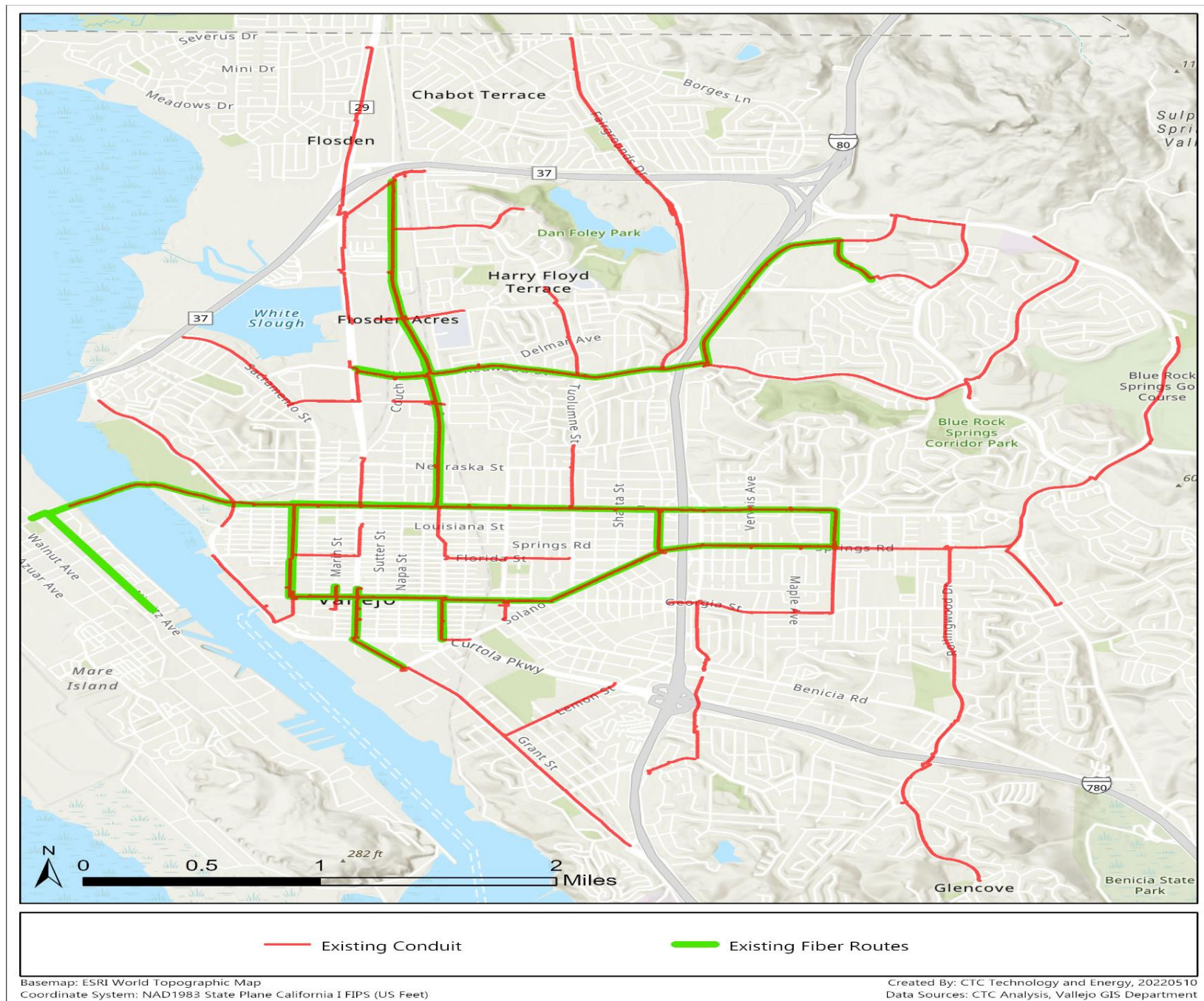
San Francisco



- Founded in 1851 Incorporated in 1868
- Population 125,000
- Located between Sacramento and San Francisco
- Mare Island Naval Base
- Amazing micro-climate
- Amazing diverse community
- Digital Equity issues



44 + miles
and adding
more




History

- The underground conduit system was installed in the mid-nineties. MTC grant.
- Connected traffic signal network throughout the city.
- President Obama era more focus on broadband and boom of the .COM and e-commerce.
- 2016 City of Vallejo adopted a Fiber Optic Master Plan.
- 2017 Fiber Enterprise fund was established.
- 2017 through an RFP process City selected a P3 contractor Inyo Networks. (5-Year Contract) VallejoNet was formed.

History

- 2020 Need for Broadband is highlighted as COVID happens. Digital Equity and Digital divide comes to the forefront.
- 2021 City Council commits \$2.5 million towards broadband build from the first tranche of ARPA.
- 2022 City refreshed and adopted a new Broadband & Digital Equity Strategy.
- 2022 Through RFP process selected a new P3 contractor Smart Fiber Networks.
- 2022 City Council commits additional \$500K towards broadband build and digital equity.

Economic Development

- Attract new businesses to Vallejo.
 - Better support for small/large business and anchor institutes.
 - Encourage micro-businesses growth.
 - Create 10G communities and attract tech workers from the South Bay and the City as Vallejo's is affordable to own a home.
 - Increase competition and create better pricing options for Vallejo.
- 

Current Activities

- Continue to expand the network systematically through ARPA funds allocated by the City Council
- Seek additional grants for expansion of city's network. Focus on CPUC CASF grants
- Last mile grants to further expand Vallejo network in low-income neighborhoods



Digital Equity

- Vallejo has received 2 CPUC CASF BPHA grants. Through these 2 grants 123 residents will be served
- Vallejo has additional 13 low-income and senior housing residential complexes
- The focus in the upcoming months will be to apply for CASF BPHA grants to serve these complexes and to further diminish the digital divide in our community



Contact

Naveed Ashraf

Chief Innovation Officer & IT Director

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www.VIPFiber.com

www.MyVallejo.com/Broadband

www.CityOfVallejo.net

Dana Cleary

Director of Real Estate Development for CHSPA Housing



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Matthew Rantanen



Director of Technology for the Southern California Tribal Chairmen's Association (SCTCA) and the Tribal Digital Village Initiative for 23 years

Currently the Vice President of Tribal Broadband at GoldenStateNet

Matthew, of Cree (First Nations), Finnish, and Norwegian descent, has been described by his peers as a "Cyber Warrior for Tribal Broadband" and is considered an expert on community/Tribal broadband networking.



Round Table Questions

California Advanced Services Fund



Public Workshop – Lunch Break
Workshop will resume at **12:40 PM**



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Tribal Technical Assistance Panel

Hoopa Valley Public Utilities District

- Linnea Jackson- General Manager



Middletown Rancheria Band of Pomo Indians

- Moke Simon- Tribal Chairman



Santa Ynez Band of Chumash Indians

- Sam Cohen- Government Affairs and Legal Officer



TTA Panel Facilitator

- Christopher Poschl – TTA Program and Project Supervisor

Overview of Broadband Programs

Federal Funding Account

Loan Loss Reserve

Broadband Equity, Access, and Deployment (BEAD)

Ravneet Kaur

April 29, 2024

<https://bit.ly/CABroadbandCaseworkers>



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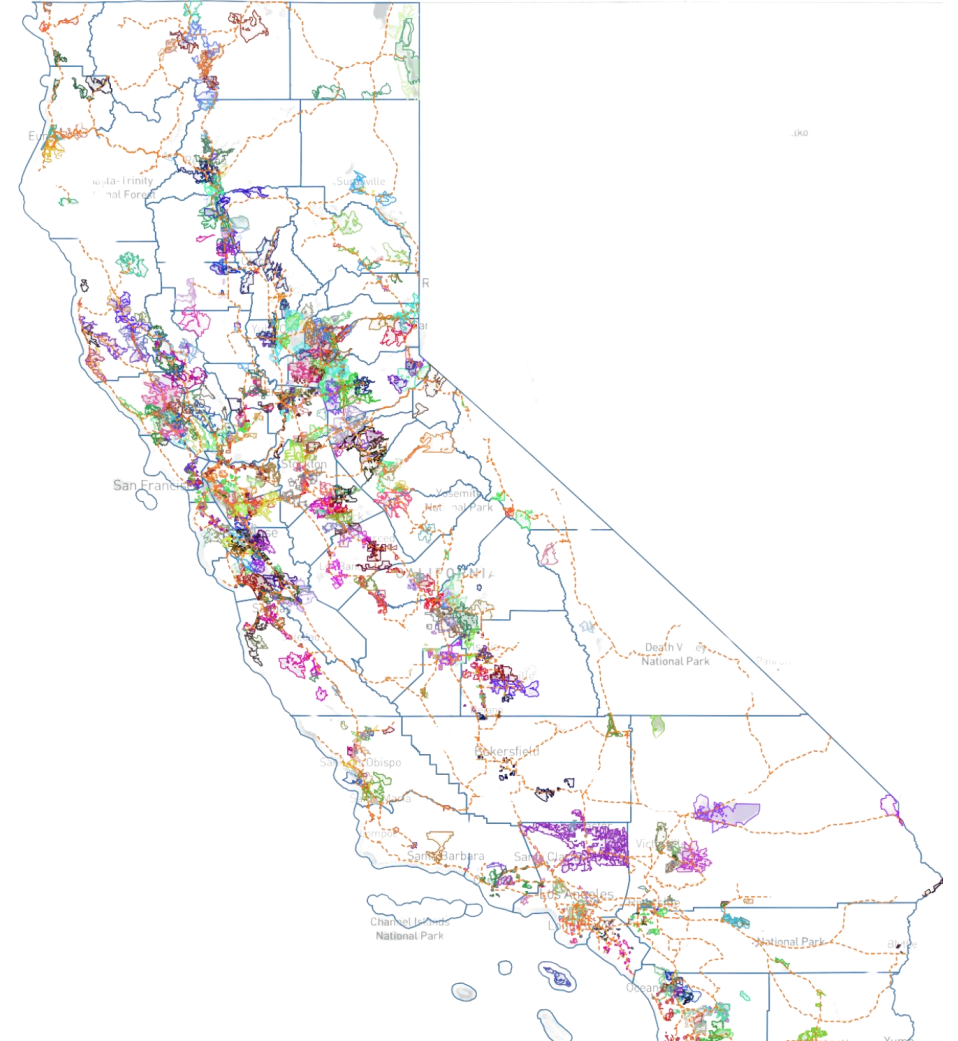
Multi-Year Broadband Investments

	Broadband Equity Access and Deployment (BEAD)	California Advanced Services Fund (CASF)	Loan Loss Reserve Fund (LLR)	Last Mile Federal Funding Account (FFA)
Amount	~\$1.86 billion	\$150M million / year (pending budget approval)	\$750 million (\$500 million proposed)	~ \$2 billion
Summary	Funds for planning, broadband infrastructure, and adoption starting in 2024	Funds broadband infrastructure and adoption in low-income housing, Tribal communities, and unserved areas	Provides collateral to local governments, Tribes, and nonprofits to finance their own broadband infrastructure	Funds for broadband infrastructure in every county
What's next?	CPUC to conduct challenge process, solicit applications, and select subgrantees	Apply in 2024 for multiple accounts including Tribal Tech Assistance, Public Housing, and Adoption	Next application window opens July 2024	The CPUC is evaluating nearly 500 applications received for every county in CA

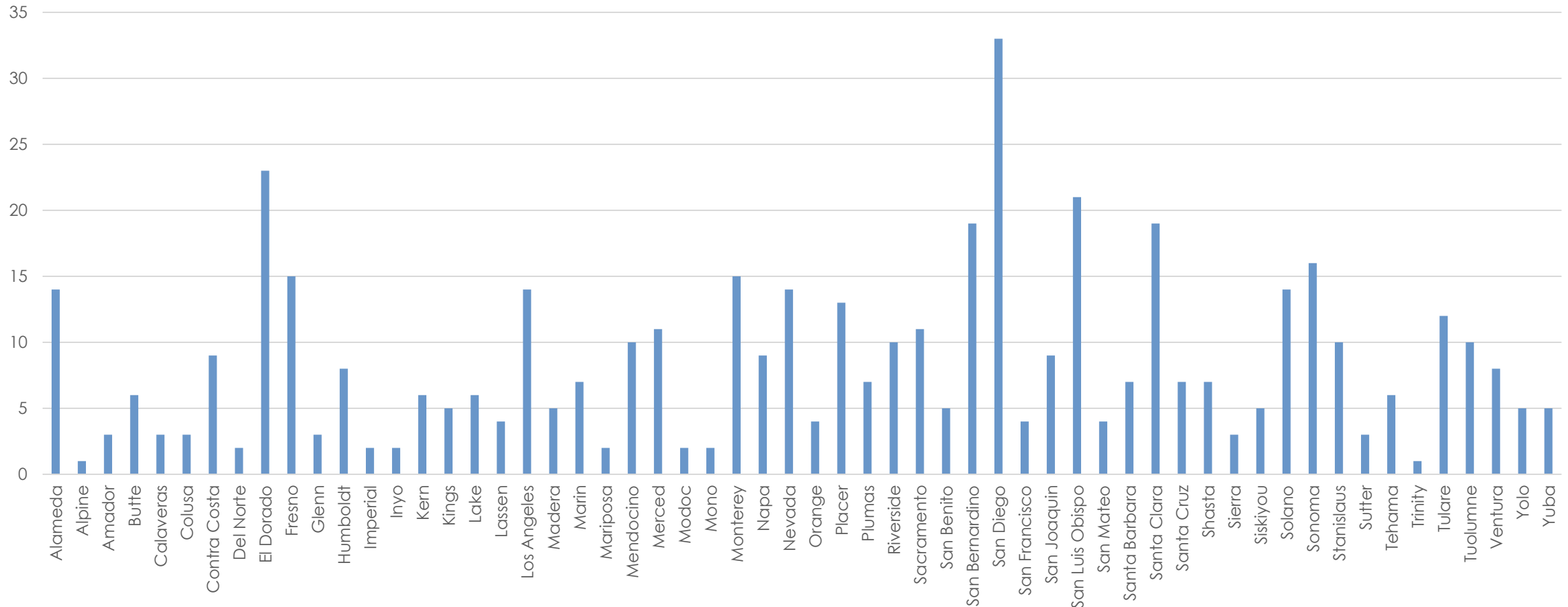
Federal Funding Account Applications

~\$2 Billion for Last Mile Infrastructure Projects to deliver reliable broadband to unserved communities

- For projects providing end-user service to unserved locations
- An application received for every CA county
 - Objection Process closed December 20, 2023
 - Application, Project Area, Objection, Applicant Responses to Objections are publicly available
- Award recommendations planned ~June 2024



Federal Funding Account Applications by Primary County



*Multi-county applications categorized by primary county

[Grants submitted \(ca.gov\)](https://www.ca.gov/grants)

Federal Funding Account and Middle-Mile Broadband Initiative

- Last Mile Federal Funding Account provides **points for applications that interconnect with the Middle-Mile Broadband Initiative** where reasonable and feasible.
 - Applications not within a reasonable proximity of the Middle-Mile Broadband Initiative can receive points.
 - Applications may be awarded that do not connect to the Middle-Mile Broadband Initiative.
- As part of the Middle-Mile Broadband Initiative partnership, the California Public Utilities Commission and California Department of Technology coordinate and collaborate on implementation.



Loan Loss Reserve Program

Overview

Provides collateral so that local governments, Tribes, and non-profits can receive more favorable borrowing rates and terms for bonds, loans, and letters of credit for the deployment of publicly owned broadband infrastructure.

Update

Loan Loss Reserve first application window closed in April 2024. Thirty-eight applications requested \$450 million in credit enhancement.

Timeline

- **First Application Window Closed April 9, 2024**
- **Program info, webinars, fact sheets are on CPUC website**
- **Next window planned after July 2024**
- **First awards targeted 2Q-3Q 2024**



Broadband Equity, Access, and Deployment (BEAD)

In June 2023, \$1.86 billion allocated to California to deploy last-mile service to unserved & underserved

Open BEAD Rulemaking (R.23-02-016) for design and implementation of the program. Milestones include:

- 2023 Engagement With CDT
- Five Year Action Plan accepted by NTIA
- Submission Initial Proposal Volumes 1 & 2 to NTIA
 - Approval for Initial Proposal Volume 1 received April 4, 2024
 - Initial Proposal Volume 2 currently under review by NTIA
- All activities subject to NTIA review and approval
- Commission must take action on program design and rules
- [More information](#) and [subscribe to updates](#)
- [Tier E License Application-Challenge Process](#)

Initial Proposal Volume 1 (Requirements 3, 5 – 7)

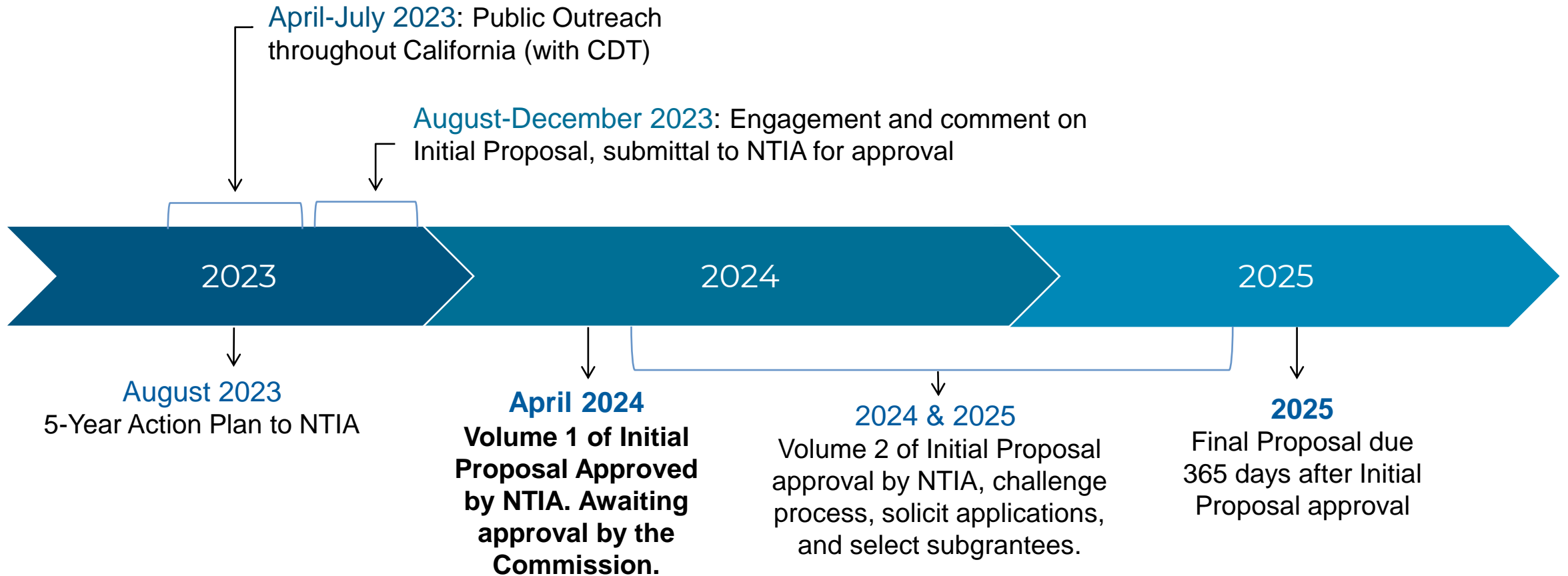
BROADBAND EQUITY, ACCESS, AND DEPLOYMENT
(BEAD) PROGRAM

Approved April 4, 2024



California Public
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Broadband Equity, Access, and Deployment (BEAD)



Broadband Equity, Access, and Deployment (BEAD) Challenge Process

- As directed by NTIA, the CPUC will **conduct a public process to refine a map of served**, underserved, and unserved locations (or location eligible for funding) prepared by NTIA
 - The process will allow governments (local, regional), Tribal nations, nonprofits, and ISPs to "challenge" the status of location (served/underserved/unserved)
 - The process is data driven and provides an opportunity for rebuttals
 - The CPUC will submit its determinations to NTIA who will make final determination on eligible locations
- On April 5, 2024, the CPUC issued a **draft decision** to adopt the approved Initial Proposal Volume 1. Comments were due April 25, reply comments on April 30.
- Outreach activities started with a **webinar on April 24, 2024** with an Introduction to the NTIA Model BEAD Challenge Process. The recording will be posted on the CPUC website: [BEAD Challenge Process \(ca.gov\)](https://www.cpuc.ca.gov/BEAD-Challenge-Process).

Broadband Equity, Access, and Deployment (BEAD) Challenge Process

Upcoming webinars

Webinars are open to all who wish to attend, and registration links will be posted on the BEAD events page.

Sessions after May 2 will focus on California's approved Challenge Process, pending the Commission's approval of Initial Proposal Volume 1 and may be rescheduled if not approved on May 9.

DATE/TIME	TOPIC
Thursday, May 2 10:00 -11:00 am	BEAD Challenge Portal Pre-registration and Challenge Platform Overview
Week of May 13	Overview of the Model Challenge Process and the Commission-approved Challenge Process
Week of May 13	Overview of the Challenge Process for ISPs
Week of May 13	Overview of the toolkit for local governments, Tribal governments, and nonprofits to enable individual challenges to be included
Week of May 20 Week of May 27	Office Hours



California Public Utilities Commission

broadbandcaseworkers@cpuc.ca.gov

Q&A

**Questions: dial 1-800-857-1917
Public Passcode: 1673482#**

or email your question to:

CASF_Workshop@cpuc.ca.gov



Thank You!



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