

May 25, 2022

Agenda

- Welcome/member comments
- Broadband and Digital Literacy Update
- Action Plan Short-Term Action Items Updates
- Middle Mile Update
- Last Mile and Adoption Program
- Affordable Connectivity Program Update
- NTIA IIJA Broadband Program Update
- Public Comment

Welcome

Russ Nichols, Chair
Acting Director, California Department of Technology

Broadband and Digital Literacy Update

Scott Adams

Deputy Director, Broadband and Digital Literacy

OBDL Update

- Staff update
 - Cole Przybyla, Broadband Access and Deployment
- Work Plan Update
 - Action Plan Revision / Portal Tracker Updates
 - Monthly Action Item Check-ins
 - External Stakeholder Engagement Plan
 - Broadband for All Roundtables

Broadband for All Roundtables

Purpose	Co-Conveners/Presenters
 Provide information and seek partnership and alignment on implementation of: Broadband for All Action Plan Middle-Mile Broadband Initiative CPUC's Last-Mile and Adoption programs Affordable Connectivity Program Digital equity initiatives 	 California Department of Technology GoldenStateNet California Public Utilities Commission Governor's Office of Business and Economic Development Caltrans California Emerging Technology Fund California Department of Education California State Library Governor's Office of the Tribal Advisor Department of General Services National Telecommunications and Information Administration

Broadband for All Roundtables

- Pre-event questionnaire
- Post-event surveys
 - Local Jurisdiction Permitting
 - ISP State Permitting and Properties
 - Tribal Government CPF and SDEP applications
- Videos, transcripts, and presentations
 - Sent to all registrants
 - Posted on Broadband for All Portal

Broadband for All Roundtables

Roundtable	Date
Cities, Counties, Consortia, MPOS	04/28/22
Caltrans Broadband Industry Meeting –Internet Service Providers	05/12/22
School, Libraries, and Community-based organizations	05/12/22
Tribal Governments	05/19/22

Engaged with over 1000 interested parties

Action Plan Updates Short-Term Action Items

California Public Utilities Commission Governor's Office of Business and Economic Development California Transportation Agency California Department of Technology California Office of Emergency Services California Department of Aging

Action Item #1 (CPUC)

Recommend, and adopt shared standards among all state grantfunding and related broadband programs.

Action Item #1 (CPUC)

Shared Standards for State Broadband Programs Status: Completed

Completed with the passage by the Legislature of:

- o SB 156 (Approved by the Governor July 20, 2021)
- SB 4 (Approved by the Governor October 8, 2021
- o AB 14 (Approved by the Governor October 10, 2021

Action Item #9 (CPUC)

Establish standards for network backhaul resilience and reliability.

Action Item #9 (CPUC)

Standards for Broadband Resilience & Reliability Status: Continuing

- Under CPUC Rulemaking R.18-03-011, decisions D.20-07-001 (wireless) and D.21-02-029 (wireline) require facilities-based providers, for network located in High Fire Threat Areas 2 and 3 to submit:
 - Reports on facilities with backup power indicating which have at least 72-hour back-up power and which do not and plans on upgrading those without 72-hour backup.
 - Emergency Operations Plans;
 - Emergency Contact Information;
 - Emergency Preparedness Exercise Attestation; and
 - Public Communications Plan.
- The CPUC issued Rulemaking R.22.03.016 in March 2022 to amend its primary rules (General Order 133) on service quality standards for telecommunications carriers.

Action Item #11 (CPUC)

Develop a framework to define essential broadband service affordability standards, evaluate those standards relative to other essential service costs, and develop a range of metrics to provide a comprehensive assessment of households' ability to afford essential broadband service.

Action Item #11 (CPUC)

Broadband Affordability Status: Continuing

- Under the Order Instituting Rulemaking (R.18-07-006), the CPUC issued a <u>Staff Proposal</u> on Affordability Metrics Implementation (November 5, 2021), which includes an Affordability Ratio Calculator.
- With this affordability framework established by CPUC, the Commission is now entering the implementation phase, with a Proposed Decision slated for June – July 2022.

Action Item #19 (CPUC)

Collect more granular and more accurate broadband data and leverage this information to build out the public California Interactive Broadband Map.

Action Item #19 (CPUC)

Granular Broadband Data Status: Continuing

- The CPUC Communications Division(CD) issued a <u>data request</u> for location (rather than census block) broadband data to approximately 220 broadband providers statewide on March 15, 2022, to provide locationbased broadband data by June 1, 2022 (based on broadband availability data as of December 31, 2021).
 - CD will be processing this data with the goal of publishing the data on the California Interactive Broadband Map by December 2022.
- CD is closely monitoring the new location-based <u>Broadband Data</u> <u>Collection</u> (BDC) procedures and protocols of the Federal Communications Commission (FCC), to update CPUC broadband data and mapping processes in full compliance with federal requirements.

Action Item #20 (CPUC)

Leverage the California Public Utilities Commission's cost model to inform broadband planning and investments, project broadband availability based on existing resources, and inform statewide discussions of additional resources required to achieve our broadband goals.

Action Item #20 (CPUC)

Broadband Cost Model Status: Continuing

- The California Broadband Cost Model (CBCM) is being updated to provide estimates to support the CPUC's prioritization of project areas for the last mile funding programs.
 - The CBCM was first published in December 2020 as Appendix B. to the Council's Broadband Action Plan 2020.
 - The charts, maps, and report that comprise the CBCM are accessible on the CPUC's website: <u>California Broadband Cost</u> <u>Model (CBCM)</u>

Action Item #21 (CPUC)

Establish a Broadband for All portal to enable easy access to broadband information and tools and serve as a central repository.

Action Item #21 (CPUC)

Broadband for All Portal: Validate Broadband

Status: Continuing

- CDT has successfully implemented the new <u>California Broadband</u> for All Portal
- As CPUC implements the new FCC-mandated location-based broadband data and mapping protocols in 2022, CD will implement an upload tool for 'crowd sourced' public input about broadband availability.
 - CDT and CPUC will cooperate to host the public facing upload tool on the Broadband for All Portal.
 - CPUC will implement the upload tool in compliance with the FCC's Broadband Data Collection rules for data validation and verification.

Action Item #2 (GO-Biz)

Identify alternative financing opportunities with government and philanthropic partners to maximize funding for new infrastructure.

Action Item #2 (GO-Biz)

- Funding Opportunities on Broadband Portal
 - Funding opportunities | Broadband for All (ca.gov)
- Development in-process of philanthropic funding tool
- Target completion date: Ongoing as opportunities arise

Action Item #4 (CaISTA)

Implement a Dig Smart policy to install conduit as part of any appropriate and feasible state-funded transportation project in strategic corridors.

Action Item #4 (CaISTA)

- Allows for co-location of underground conduits
- Currently implementing and promoting co-location
- Target completion date: December 31, 2022

Action Item #5 (CalSTA)

Improve state encroachment permitting processes and rights-ofway management as needs or opportunities are identified, to accelerate broadband deployment projects that will serve unand under-connected communities.

Action Item #5 (CalSTA)

Enchroachment Permitting and Rights-of-way management Status: Completed

- Amended broadband projects permitting process
- Updated broadband accommodations policy

Action Item #6 (CDT)

Explore various actions to enhance permitting processes at all levels of government through meaningful partnerships. Convene semi-annual meetings with broadband providers and local governments to enhance permitting processes that support the construction of broadband infrastructure and the needs of local governments.

Action Item #6 (CDT)

Federal	 Federal Permit Improvement Steering Council – FAST 41 Program
State	Caltrans / Resources Agency Partners
Local	Local Jurisdiction & ISP SurveysCheck ListPlaybook

Action Item #21 (CDT)

Establish a Broadband for All portal to enable easy access to broadband information and tools and serve as a central repository.

Action Item #21 (CDT)

Status: Completed www.broadbandforall.cdt.ca.gov/

Updates:

- Action Plan Tracker
- Events Page
- Affordable Connectivity
 Program Page



Broadband initiatives

Broadband is essential for vital services and opportunities, but millions of

Californians still lack adequate broadband service or the devices and

Join us as we engage and support partners across the state to achieve

ekille to use it

Broadband for All.



Broadband for All Action Plan

In response to executive order N-73-20, the California Broadband Council developed the "Broadband for All" Action Plan with the understanding that broadband access, adoption, and training are essential components of digital equity.



Middle-Mile Broadband Initiative

In July 2021, Governor Newsom signed SB 156. This directed the California Department of Technology to develop a statewide, open-access middle-mile network. SB 156 provides \$3.25 billion to build the necessary infrastructure to bring internet connectivity to homes, businesses and community institutions.



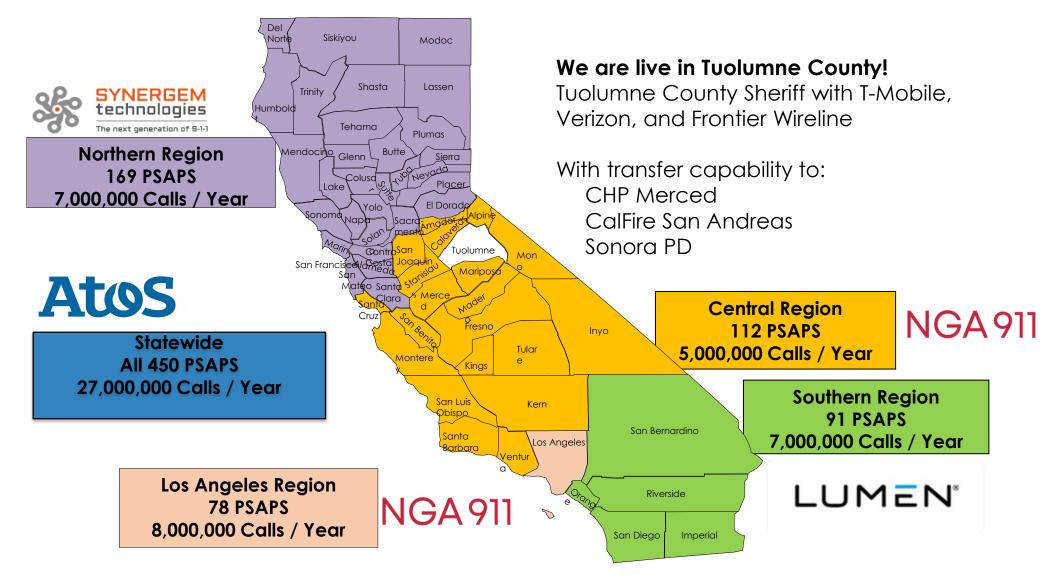
Last-Mile and Adoption Programs

To complement the middle-mile network, SB 156 included \$2 billion to build last-mile infrastructure, provide funding for local agency technical assistance, and a loan loss reserve. The California Public Utilities Commission administers these along with a suite of existing programs that support broadband deployment, assistance, affordability, and adoption.

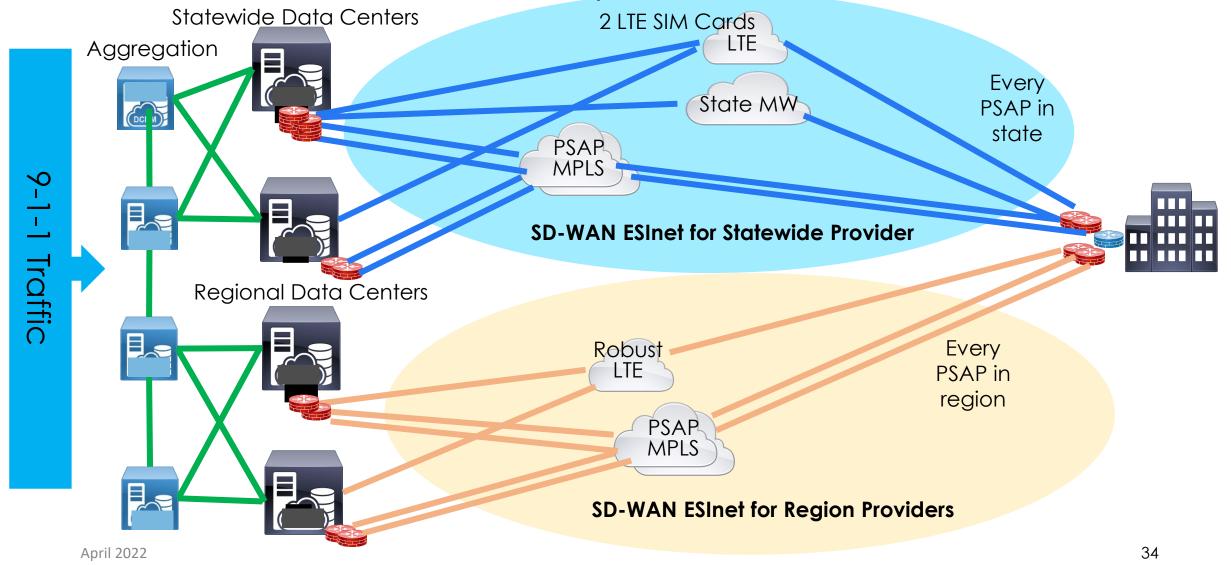
Action Item #8 (CalOES)

Regularly coordinate and convene with jurisdictions implementing next-generation 911 to expand broadband infrastructure to enhance public safety and disaster preparedness, response, recovery, and mitigation capabilities.

NG 9-1-1 Overview



NG 9-1-1: Connectivity



Action Item #8 (CalOES)

Broadband Buildout and NG 9-1-1

- NG911 Deployment PSAP Dashboard 95% Completed
 - https://calema.maps.arcgis.com/apps/dashboards/edccc14f232640c4b53 a65e946880568
- Connectivity to each PSAP Goal is 2 or more diverse fiber connections plus a multi-SIM LTE solution
- Connectivity has been active to over 250 PSAPs since Nov 2021
- Reality: Fiber is not available at all PSAPs
- Alternatives discussion

Action Item #15 (CDA)

Analyze the needs of people ages 60 and older for access to affordable, reliable, high-speed broadband, and identify programmatic and partnership opportunities to meet these needs.

Action Item #15 (CDA)

CDA Digital Divide Programs and Initiatives

- Google Home Smart Speakers (GHSS) Project
- Connections, Health Aging and Technology (CHAT) Program
- Access to Technology (ATT) Program
- Digital Connections (DC) Program

Middle-Mile Update

Mark Monroe

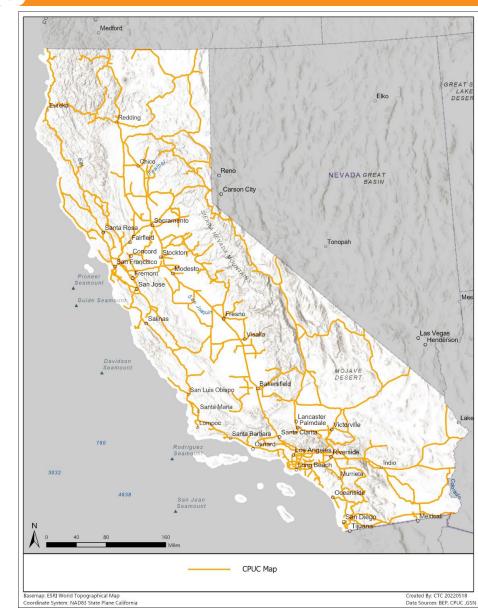
Deputy Director, Broadband Middle-Mile Initiative

Middle-Mile Update

- Budget Change Proposal
- Procurement
 - Fiber
 - Materials (Conduit)
- Statewide System Level Map
- Moving Forward

Summary of Map Designs

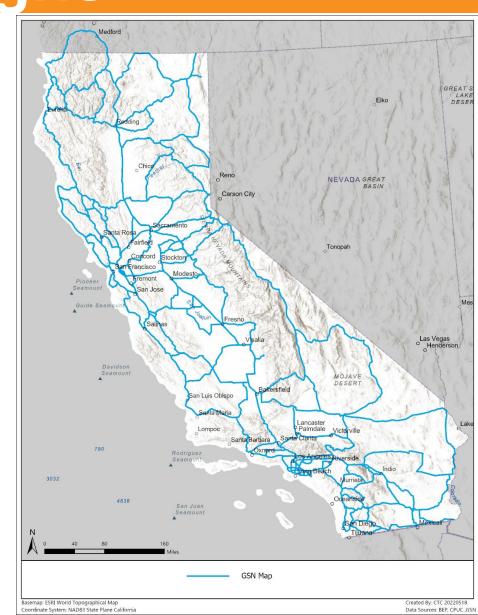
CPUC map: 9,470 miles GSN map: 8,650 miles CDT map: 10,000 miles



Summary of Map Designs

CPUC map: 9,470 miles

GSN map: 8,650 miles CDT map: 10,000 miles



Summary of Map Designs

CPUC map: 9,470 miles GSN map: 8,650 miles CDT map: 10,000 miles



Moving Forward

CDT will continue the following efforts:

- Get revised construction cost estimates from Caltrans.
- Get updated market assessment for dark and lit service.
- Get updated locations of potential infrastructure that can be leased through IRUs.

As data is refined, CDT will identify where the state will be able to build and where it will need to use IRU leases.



Last-Mile Update

Darcie L. Houck

Commissioner, California Public Utilities Commission

2021 Broadband Investments Background on CPUC Responsibilities



Last Mile Initiatives and Supporting Programs

- 1. Broadband Technical Assistance \$50 million total **
 - Purpose: Help prepare local governments & Tribes for broadband infrastructure investments.
- 2. Loan Loss Reserve \$750 million
 - Purpose: enable local governments & nonprofits to secure financing for broadband infrastructure.
- 3. Federal Funding Account \$ 2 billion
 - Purpose: Funding for last-mile broadband infrastructure projects.
- **4. California Advanced Services Fund (CASF)** ~up to \$150 million per year
 - Purpose: assist with broadband infrastructure deployment & adoption in public housing,
 Tribes, & unserved areas.

Middle-Mile Locations

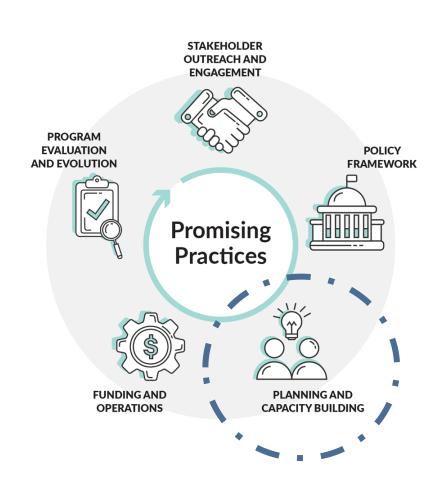
- Identify routes & priority areas using public process.
- Report mapping & analysis to the California Department of Technology for use in program implementation & project development.

^{*} May be increased pursuant to Public Utilities Code Section 281(d)(4)

^{**} Included in \$2 billion Last-Mile Initiative

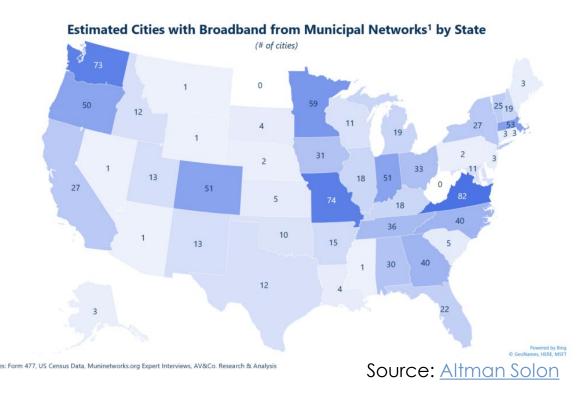
Local Agency Technical Assistance

- \$50 million for technical assistance grants to local agencies and Tribes.
- Funding can be used for public entity or consultant costs to create Joint Powers Authorities, and for other costs to prepare to deploy broadband infrastructure, including for environmental permitting, engineering, and design activities.
- Timing Applications June-July 2022.
- Amount Grants to qualifying local agencies and tribal governments in amounts not to exceed \$500,000 per local agency or tribal government, per fiscal year.
- More information



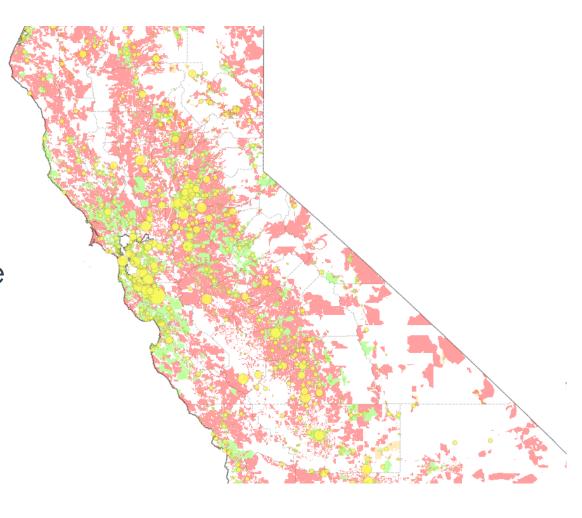
Loan Loss Reserve Fund

- \$750 million Loan Loss Reserve Fund to support development of public broadband networks.
 - A form of credit enhancement, or a type of insurance, that helps lenders control for the risk that loans will not be repaid. This new funding will provide collateral to local governments and non-profits for bond financing.
 - The US Department of Energy operates a similar loan loss reserve program.
- CPUC <u>Rulemaking 20-08-021</u>
- **Timing** Proposal for input by August 2022, comments and workshops to follow.
- Actions Engage in the implementation and consider becoming a party to the proceeding to inform program rules that meet needs.



Last Mile Federal Funding Account

- The new \$2 billion <u>Federal Funding</u>
 <u>Account</u> is for last-mile broadband infrastructure grants.
- These funds must be encumbered by the 2025 federal deadline, and spent (i.e., projects built) before 2027.
- **Timing** Targeting applications before July 2022.
- Action Get ready to apply or to support those who will apply.



Adoption, Consortia, & Infrastructure Broadband Grants

- Broadband Adoption, Consortia, and Infrastructure grants are supported by the <u>California Advanced Services Fund (CASF)</u> broadband grant program.
 Up to \$150 million a year funded by a surcharge on telephone bills
 - Broadband Adoption Grants
 - Broadband Consortia Grants
 - Broadband Infrastructure Grants
- **Timing** updated rules for Adoption, Consortia, and Housing as soon as May 19; applications in June/July. Proposal on Infrastructure expected before end of second quarter 2022.

Action

- Engage on the implementation of the Broadband **Adoption**, **Consortia**, and **Public Housing** Program Updates in Rulemaking 20-08-021.
 - Become a party to the Rulemaking.
 - Join the mailing list for funding availability (email <u>CASF_Adoption@cpuc.ca.gov</u>)
- Watch for the CASF budget allocation of amounts across the subaccounts (Adoption, Consortia, Infrastructure, and Public Housing)

Broadband Public Housing Account

- The revamped <u>Broadband Public</u> <u>Housing Account Grants</u> will provide grants to connect qualifying low-income housing, such as publicly supported housing communities, with infrastructure to <u>provide free internet service</u>.
- **Timing** Targeting applications in June/July 2022.
- Action Public entities and non-profit orgs: assess broadband needs of publicly support housing communities. Prepare applications or support entities that will apply. Stay tuned for staff proposal expanding eligibility.



CASF Public Housing Account project Housing Authority of the County of Kern – Green Gardens Main Distribution Frame room

Broadband Adoption Update

Sunne Wright McPeak, President and CEO Susan Walters, Senior Vice President California Emerging Technology Fund







Who Qualifies for Affordable Connectivity Program*?

A household (HH) is eligible if any member of the household meets **one** of these criteria:

- ▶ Has income that is at 200% or below of the Federal Poverty Level.
- Participates in specific assistance programs, such as CalFresh, Medi-Cal, or Lifeline.
- Receives a Pell Grant in the current school year.
- ► Has a child at a school designated Community Eligibility Provision (CEP), which is part of the Free and Reduced Meal Program.
 - *Device Benefit is available on a very limited basis from only small ISPs.







CBC Affordable Connectivity Program Call to Action Adopted on March 2

GOAL #2: Actions to ensure all Californians have access to affordable broadband and necessary devices.

Set the Goal to Enroll 5M Eligible Residents in ACP

- ► By 2024 reach 90% or 4.5 million households
- By 2027 95% 2027 or 4.75 million households

#16: Promote, track and publicly report the progress of adoption of affordable internet services and devices.

- ► Engage All Qualifying State Agencies
- ▶ Partner with CDT to Publish on website ACP Enrollment Tracker Developed by CETF with CSU, Chico
- ► Enable local and Tribal governments and anchor institutions to promote ACP







Activity Since March 2 to Achieve Universal Adoption of High-Speed Home Internet Connectivity

CBC Call to Action Presented at 30 Meetings (over 1,000 registrants)

- ▶ State: Broadband for All Roundtables, California State Association of Counties
- ▶ Regional: SCAG, SANDAG, Digital Divide Transformation Task Force, Digital Equity Coalition
- ► Local: 15 Counties Interested/5 confirmed-Riverside, San Bernardino and San Diego Joining Los Angeles and Yolo; GovOps Enlisted UCLA's Health Community Navigators for Door to Door Covid-19 Education and Sharing ACP Information (40,875 conversations and 237 calls March to May 16)

Investor Owned Utilities MOU with CETF for California

So Cal Edison, So Cal Gas, PG&E and SDG&E agreed to promote affordable Internet in 4 ways.

- ▶ Display a phone number and information link on their websites. (17,772 unique visits in FY22 and 1,901 calls since Nov)
- ▶ Integrate broadband discount messaging twice annually in select CARE and FERA mailings. (872K sent in FY22)
- ▶ Incorporate CETF materials in ESA education kits. 198K (projected for the 2022 year)
- Motivate CBOs and Contractors working with low-income residents to share information on affordable Internet (240)







Call to Action for Sustained Focus and Accountability

- ► Achieve the Overall Goal: 90% in 2024 and 95% in 2027
- ▶ Enlist all State Agencies, Counties and School Districts to Promote ACP
- ► Engage in Broadband Planning for BEAD, DEA and MM to Secure Funding for California to Effective Build Infrastructure and Promote Adoption*
- ► Engage CBOs as Digital Navigators with Performance Metrics
- ► Commit to Hold Each Other Accountable (Quarterly Reports to the CBC)

^{*}Adoption means affordable service, devices and access to digital literacy skills needed for all.







Publically Tracking ACP Eligibility and Enrollment

Broadband for All Portal has the ACP Enrollment Tracker for Everyone to Use

- Data Provided by USAC
- CETF Worked with the GIS Unit at CSU Chico to develop map
- CETF and CSU Chico partnered with CDT to make it useable by the public
- Demonstrate Tracker

ACP Enrollment Tracker enables:

- Better management and evaluation of outreach strategies.
- Momentum to build toward local goals.
- Near term feedback of local and regional performance.
- Metrics to celebrate!

	Total Enrollments by County	Percent of 5M Goal
January	1,168,592	23%
February	1,294,957	24%
March	1,319,325	25%



Affordable Connectivity Program enrollment tracker

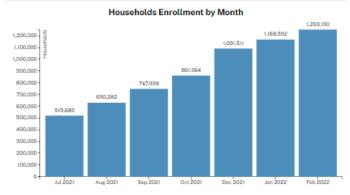
The California Emerging Technology Fund (CETF) and the Geographical Information Center at Chico State Enterprises (CES)have worked to provide information on Affordable Connectivity enrollinest and progress in California. This is also tracked by county and ZIP code. The Affordable Connectivity Program is a government benefit that helps households reduce the cost of their monthly home internet service.

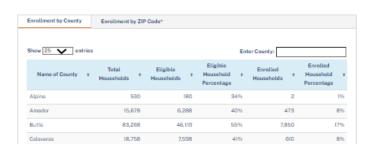
The CETF is a non-profit organization and member of the California Broadband Council that supports greater access to affordable broadband. CES is an affiliate of CSU Chico.

Households eligible and enrolled households

Last updated on May 2022







National Telecommunications and Information Infrastructure Investment and Jobs Act

Scott Adams

Deputy Director, Broadband and Digital Literacy

NTIA IIJA Broadband Program Updates

The **Infrastructure Investment and Jobs Act (IIJA)** designates \$65 billion to close the digital divide and invest in broadband.

NTIA's Notice of Funding Opportunities (NOFOs) released on May 13:

- Broadband Equity, Access, and Deployment (BEAD) Program to support broadband infrastructure and deployment.
- State Digital Equity Planning Grants for states to promote the achievement of digital equity and inclusion. Includes additional provision for Tribal Digital Equity Plans.
- Enabling Middle Mile Broadband Infrastructure Program for the construction, improvement or acquisition of middle mile infrastructure

California's BEAD and State Digital Equity Planning begins this summer. More to come soon!



NTIA IIJA Broadband Program Updates

	Broadband, Equity, Access and Deployment (BEAD)	State Digital Equity Planning Grants	Enabling Middle Mile Broadband Infrastructure
Uses	Funding for broadband planning, deployment, mapping, equity, and adoption activities.	Funding to develop the State Digital Equity Plan, a prerequisite for access to State Digital Equity Capacity Grant funding.	Funding for the construction, improvement, or acquisition of middle mile infrastructure
Total Funding	\$42.45 billion	\$60 million	\$980 million
State Allocation	 Minimum allocation of \$100 million. May request up to \$5 million in planning funds. State total allocation to be determined after release of federal data map. 	California's tentative allocation is \$4,001,525.45	NTIA expects to make awards in the \$5 million - \$100 million range.
Immediate next steps	 Letter of Intent due by Jul 18, 2022. Request for Initial Planning Funds due by Aug 15, 2022. 	Applications due by Jul 12, 2022	Applications due by Sep 30, 2022

Public Comment

Thank You!