The Broadband Environment, Part 1: Government Framework and Funding

California Public Utilities Commission - Broadband Caseworkers March 2023



Goal: A community that completes the seminar series will be prepared to acquire grants

and subsequently develop a successful broadband network.



AGENDA

- 1. California Communications Evolution Tech, Market, and Regulation
- 2. The Role of Government as Regulator, Grantmaker, and Facilitator
- 3. Introduction to State Funding and Resources
- 4. Introduction to Federal Funding and Resources

California Communications Evolution

Learning Objectives

- Understand how broadband has developed in California, from a regulatory perspective, to understand current market dynamics
- Connect the dots with the Technology and Business
 presentations





Communications Evolution Discussion

- What are your takeaways about the relationships between technology, the market, and regulation?
- In what ways does broadband resemble a public utility (like water or power)? In what ways does it not?
- Follow-up questions can be sent to BroadbandCaseworkers@Cpuc.Ca.Gov

Role of Government as Regulator, Grantmaker, and Facilitator

Government as Regulator: Limited Role

California as Regulator

- Federal law limits state regulation of broadband prices/access
 Contrast to the tools that get telephones, water, postal service, and energy to rural and low-income households
 Roles include:
 Libraction service providers

- Licensing service providers
 Public sofety, e.g., battery backup for towers
 Regulating marketing and terms/conditions of
 service

FCC as Regulator

- Light touch regulation of interstate tigen root regulation of inferstate
 telecommunications (consumer protection,
 outges, national 911)
 FCC chooses not to regulate rates
 Other FCC Rolesinclude:
- Mapping and collecting data on service provider coverage
 Regulating broadband marketing (including how speeds, prices, fees, etc. are advertised)

CALIFORNIA

Broadband for All

A series of state initiatives begun in 2020 in coordination with federal infra funding:

- The California Broadband Council Governor's Executive Order N-73-20
- The Broadband Action Plan
- SB-156, funding middle and last mile
 Upcoming IIJA planning processes for using federal infrastructure & digital equity funds

Government as Facilitator and Grantmaker

Broadband Action Plan

- Addresses three long-term goals: Create access to high-performance
- broadband at home, schools, libraries, and businesses everywhere in the state. Make available affordable broadband and
- the devices necessary to access the internet.
- Provide avenues for training and support to enable digital inclusion.

Broadband for All: State Agencies

r's Offic

- Go Biz: economic development California Broadband Council
- Office of Tribal Affairs
- California Public Utilities Co

Regulates communication providers with focus on service quality, affordability, and consumer protection

- Directed to administer federal BEAD funding program
- Administers multiple public purpose programs
- Manages state broadband map
- California Department of Technology
- Overseeing state middle mile network Developing statewide digital equity plan

- Manages state highways and roads Coordinates with federal agencies for access to interstate highways Works with service providers to place
- equipment in right-of-way Building state middle mile network

- partment of Education Funds school connectivity to California Research and Education Network (CalREN) Runs education technology initiatives Coordinates discounted services for K-12 schools through federal E-rate discount

California State Librar

Manages library connections to CalREN Coordinates discounted services for libraries through federal E-rate discount program

National Broadband Policy: Federal Agencies

Federal Communication Commission

- Regulates communications, including broadband access and competition Universal Service Fund is the most reliable source of federal communications funding

National Telecommunications and Information

- Administration
- Research and development
 Policy advisor to Executive Branch on
- telecommunication and technology Administers multiple infrastructure and digital
- equity grant programs that provide funding to states

Federal Trade Commission Consumer protection and enforcement

· Anti-trust regulation and enforcement

- Department of Agriculture Rural Utilities Service
- Longstanding loan and grant program for rural infrastructure, including broadband
- ReConnect grant program for rural broadband

Department of Commerce Economic Development Administration

- Research and development on economic impacts of broadband
- Grant programs for broadband projects to support economic development

Department of Housing and Urban Development Community Block Grant Development can

support broadband planning and deployment for public housing

Government Regulation Discussion

- What are your takeaways about the federal and state roles in telecommunications?
- Do you have existing relationships with these agencies? Do you participate in any of their proceedings?
- Are there other agencies that you work with more closely?
- Follow-up questions can be sent to BroadbandCaseworkers@Cpuc.Ca.Gov

Introduction to State Funding and Resources

Learning objectives

- Introduction to data and mapping resources created by the CPUC
- Introduction to state funding sources and key programs

CPUC Mapping

Collects data from service providers and outside research

Maps show unserved, served, and service levels at census block level

Several layers to the map including adoption rates, location of grant funded projects, anchor institutions



Unserved: fastest service offering is less than 25/3 Mbps

apping-resources

CPUC Mapping

CPUC also has a data dashboard with multiple state maps that are updated and provide different angles and perspectives on broadband deployment in the state



Data/Mapping Discussion

- What resources do you have for mapping and data within your jurisdiction?
- What are your most-used analytical tools?
- Follow-up questions can be sent to BroadbandCaseworkers@Cpuc.Ca.Gov

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	<u>Federal Funding Account</u>	CPUC Broadband	unding Programs		
	Loan Loss Program	Program	Description	Status/Deadlines	1
CPUC Funding Infrastructure Programs Mix of state and federal funding	 California Advanced Services Fund - Infrastructure Local Agency Technical Assistance <u>Iribal Technical Assistance</u> California Advanced Services Fund – Public Housing 	Local Agency Technical Assistance \$20 million distributed until funds are exhausted Grants capped at \$1 million per year Loan Loss Reserve Fund \$750 million allocated for the Fund	reinburse pra-project costs related to the development of broadband infrastructure projects Grant-funded program for costs related to the financing of broadband infrastructure	opened; rules and application processes are	
	Affordability programs		projects by local governments, tribal governments, and nonprofits	pending further action by the CPUC (expected Q1 2023)	l
	 California LifeLine California Broadband for All has a Funding Opportunities Tool <u>https://broadbandforall.cdt.ca.gov/funding/</u> 	Federal Funding Load Mile Account \$3 billion statewide over three years	Tadiptunis Grant Funded program for last- mile infrastructure deployment projects	Application window has not opened, pending further action by the CPUC.	

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Other CPUC Broadband Funding Programs

Program	Description	Status/Deadlines	Eligibility	
Tribal Technical Assistance	Grant-funded program to build	Applications accepted by	All California tribes (with and	
\$5 million funded program	capacity for Tribes to implement projects to improve communications and broadband services to Tribal communities.	the first day of each quarter for consideration in that quarter.	without federal recognition).	
	Applicants can receive up to \$150.000 per fiscal year.			
CASF - Infrastructure \$24.8 million allocated in 2022/2023	Grant-funded program for last mile infrastructure projects. Priority funding for areas with less than 10/1 Mbps available.	Applications due annually on April 1. Approved or denied by end of year, with most approved or denied by October 1.	Telephone corporations, wireless carriers, facilities- based broadband providers, and local agencies are eligible.	
CASF—Public Housing \$15 million allocated in 2022/2023	Grant program to inst all inside wire and equipment for broadband networks that will offer free broadband service for residents of publicly supported housing and farm worker housing.	Application windows: • July 1, 2023 • January 1, 2024 • July 1, 2024	Local governments cannot apply, but can educate and encourage owners of publicly supported housing and farm worker housing, including nonprofits, to apply	

CPUC Local Agency Technical Assistance

\$50 Million for Tribal Governments and Local Agencies for last-mile broadband infrastructure projects.

Eligibility

Tribal set-aside from total funding.
Funds pre-construction deliverables, such as environmental permits, engineering studies, and strategic plans

Applications

94 applicants requested a total of \$42 million.Currently being accepted

Awards

- 68 grants for \$30 million (December 12, 2022).
- County dashboard
- <u>Technical assistance program</u>
- Cali fornia Public Utilities Commission



Applicants/Eligibility Local governments and tribai governments that will provide service to unserved areas

Can apply for funding to support a project where loca govt is a partner or lead agency Local governments, tribal aovernments, and nonprofits

Broad scope of eligible applicants, including local governments

Local govt can apply for funding on its own if it will directly offer service on the funded network, or it can partner with a service provider or other government agency to build and provide service

Federal Funding Last Mile Account

Funding for last-mile infrastructure projects in every California county

- The \$2 billion Federal Funding Account is for last-mile broadband infrastructure.
 - All unserved locations are presumed eligible.
- Entities eligible to apply include Tribes, service providers, public entities, and non-profits.
- CPUC will evaluate applications based on points-based program rules
 <u>available here</u>.
- Next steps:
- Broadband availability data set will be updated with more current version.
- Will release a new map before opening the application window
- Archived materials are available on the website for $\ensuremath{\text{information only}}$
- Targeting June 2023 to open the first application window.

Broadband Loan Loss Reserve Fund

\$750M of funding for costs related to the financing of broadband infrastructure projects for local government agencies and nonprofits

- Eligible entities: local governments, tribal governments, utility districts and nonprofits
 The CPUC is currently taking public comment on the terms and conditions of this program
- A splicants can request funding to support costs related to the financing of a project,
- establish reserves for missed loan payments, and serve as collateral for bond financing • Goal of program is to attract private lending and lower the cost of financing an
- infrastructure project for local governments and nonprofits by lowering risk for lenders and banks

California Public Utilities Code Section 281.2: https://dois.cpuc.co.gov/PublishedDocs/Effe/C000/M455/c6777455677087.Pt California Public Utilities Commission

Affordability programs

Mix of federal and state funding

In addition, infrastructure awards often require affordable services for lowincome customers

- Affordable Connectivity Program: Federal funding
- Federal program offering discounted broadband
- Participants can also qualify for subsidized device
 - Funding for outreach efforts

Lifeline: Federal and state funding

- Discount on wireless and wireline voice services
 Participants often receive free wireless devices
- Teleconnect: State funding
 - Discounts for broadband subscriptions for schools and libraries
- California Advanced Service Fund Adoption Account: State funding
 - State grant funding for homework gap and digital literacy programs

CPUC Funding Discussion

- Are you familiar with any broadband deployment or affordability programs already available in your community?
- Which funding programs are you most interested in learning more about?
- Is affordability of broadband an issue in your community? What efforts does your community make to enroll eligible people in your community into available affordability programs?

Introduction to Federal Funding and **Resources**

FCC Mapping

Carriers provide data about their service territories and service offerings to the FCC FCC's "Broadband Data Collection" process provides granular mapping data down to the address level Anyone can challenge the information on the map



FCC mapping results will impact state and local funding resources for broadband deployment projects through federal programs

https://broadbandmap.fcc.gov/home

Funding Opportunities by Source



What is the BEAD opportunity?

		Increases access for unserved and underserved households to ensure that all Americans have access to high-speed Internet		
Access	\bigcirc	Ensures Americans have access to $high-quality, broadband services$ to support full participation in the 21st century economy and beyond		
*	28	Supports affordability of broadband services, esp. in low-income households		
Affordability		Fosters a system that promotes long-term, sustainable, affordable solutions		
Â-		Enables investment in digital skills training to increase the number of households adopting high-speed Internet and narrow adoption disparities		
Adoption and equity		Makes investments to ensure Americans can participate in economy & society, reducing inequities across sectors, including healthcare, workforce & education		
SOURCE: National Telecommunications & Information Administration				
California Public Utilities Com	nission	28		



Summary BEAD (CPUC) and Digital Equity (CDT) Timelines

1 Community engagement

Digital equity planning & programs

BEAD planning

4 BEAD grant program 5 BEAD deployment

2

3

How to Participate in BEAD & Digital Equity Planning

Communities can take steps to inform BEAD and Digital Equity plans - and to benefit from them

Q1-2	Q3-4	Q1-2	Q3-4	2025 +	Ensure the unserved	Ensure the Digital Equity data reflect your	Prioritize areas of	Prepare for funding
DE planr	ues throughout plan ing process		DE state pro	grams DE federal grants BEAD final proposal	data reflect your community's reality Check the FCC map and challenge if necessary Provide data on unserved and underserved locations to the CPUC	data reflect your community's reality • Understand how many households lack access to broadband because of affordabily, language, or other issues—even where it is available • Use existing data and collect new data to understand challenges • Provide data to the State planning effort	Concern Using your Digital Equity data, prioritize areas of effort for your community Using your data on unserved and underserved locations – as well as CPUC- designated priority areas—build a prioritization of infrastructure projects	 opportunities Identify existing Digital Equily programs that work and can be expanded – and needs for new programs Budg partnerships with non-profits or companies that have track records

Federal Funding Discussion

- Does your county already have USDA or EDA broadband funding?
- What kinds of public outreach is your community preparing for BEAD and Digital Equity planning processes?
- What types of data does your community already have that would be helpful for digital equity or infrastructure projects?

Preview of Parts 2 and 3 of The Broadband Environment

Part 2

- Optimizing your community for broadband deployment: Mapping, permitting, data, and other processes
- Workforce issues

Part 3

 A deep dive into the upcoming funding opportunities and how to access them (for staff preparing grant applications)

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