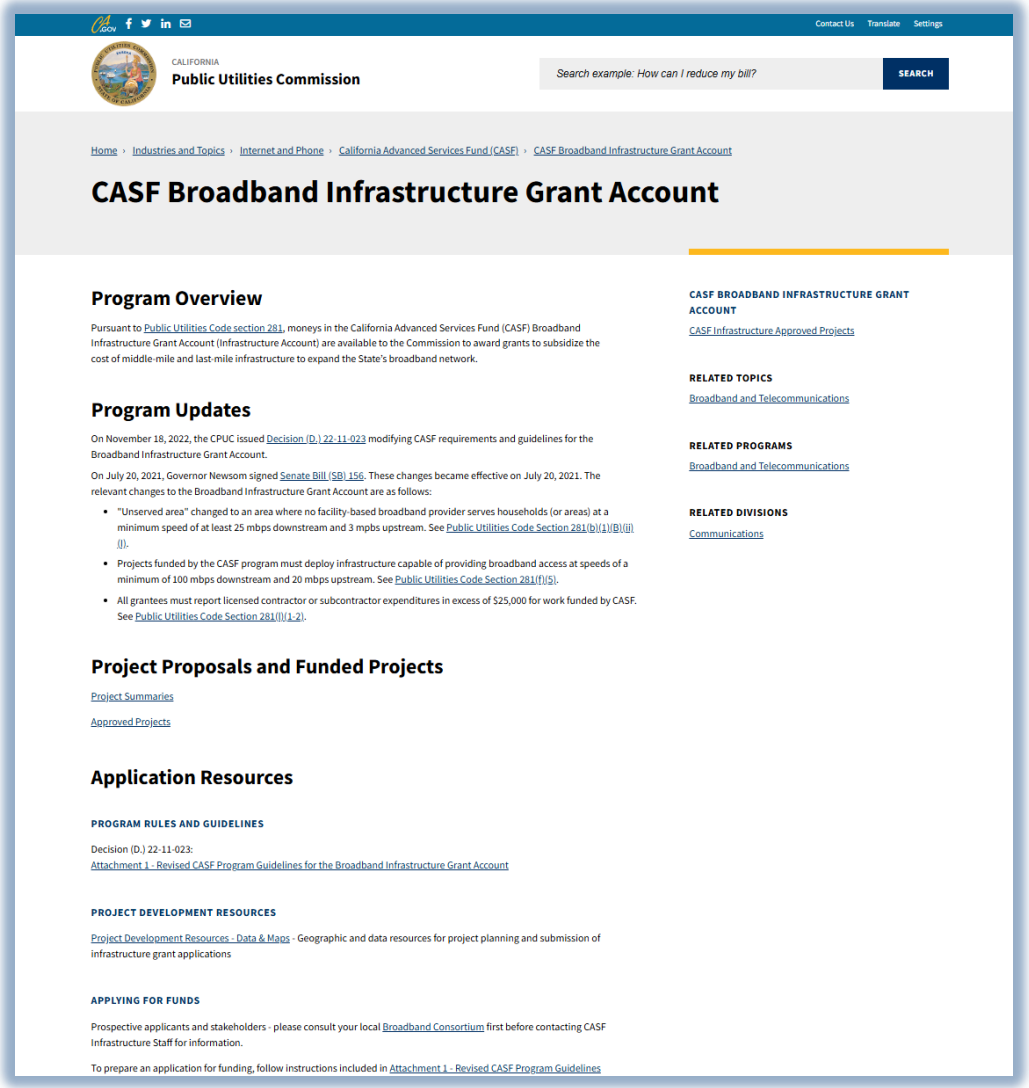
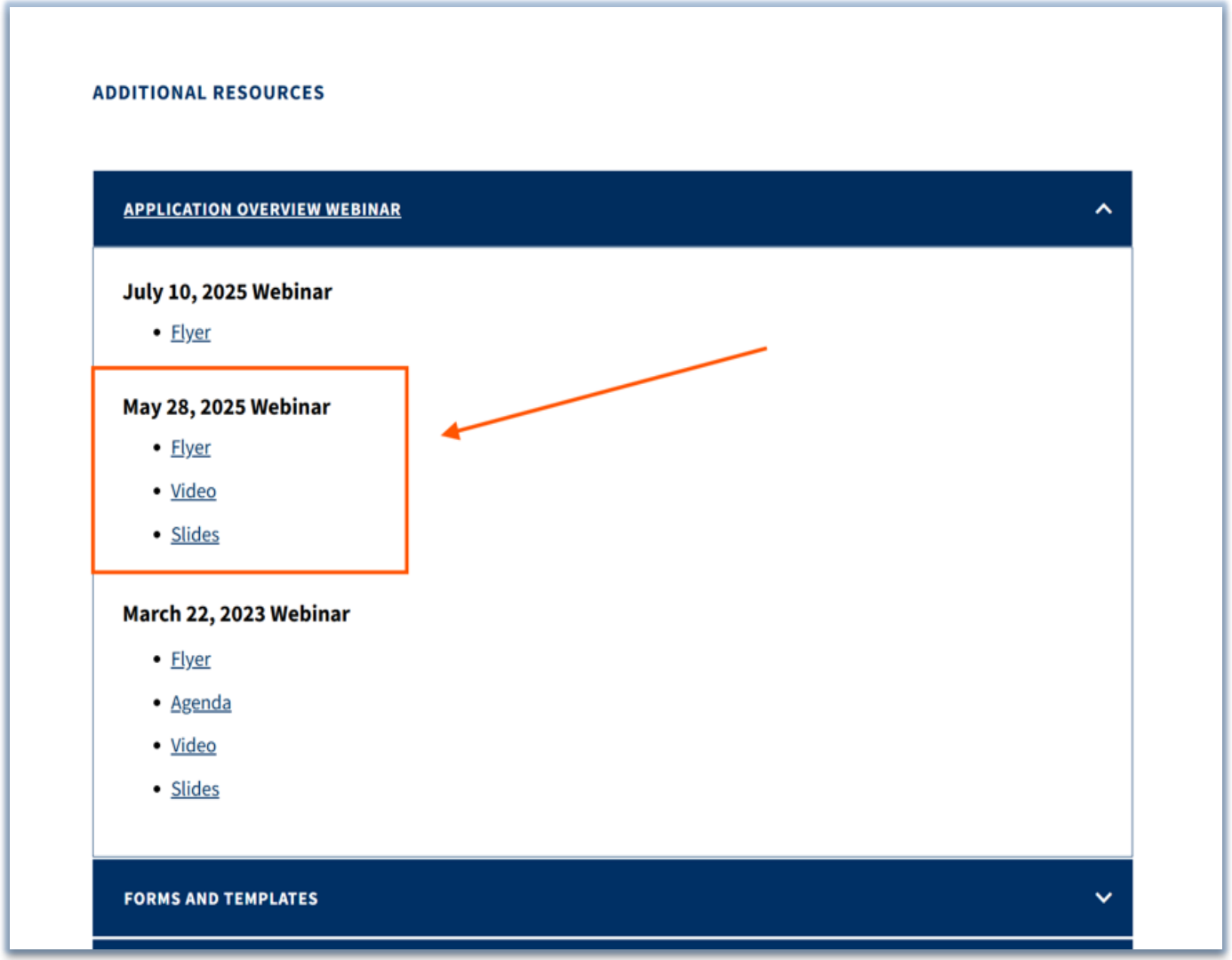
California Advanced Services Fund

Infrastructure "Office Hours"
Webinar #2
July 10, 2025

California Public
Utilities Commission

Infrastructure "Office Hours" Webinar 1





Agenda

10:30-10:35	**Introduction** Heyward Daluz, Regulatory Analyst
10:35-10:50	California Interactive Broadband Map Updates Zhuoying Liu, Research Data Analyst
10:50-11:05	Project Location Data and Submission Requirements Benjamin Swearingen, Regulatory Analyst
11:05-11:30	Q&A Rosa Sauer, Regulatory Analyst Jayson Santos, Senior Telecommunications Engineer

Submit questions to casf_workshop@cpuc.ca.gov

CASF Broadband Infrastructure Grant Account

Planning for 2025 and Beyond

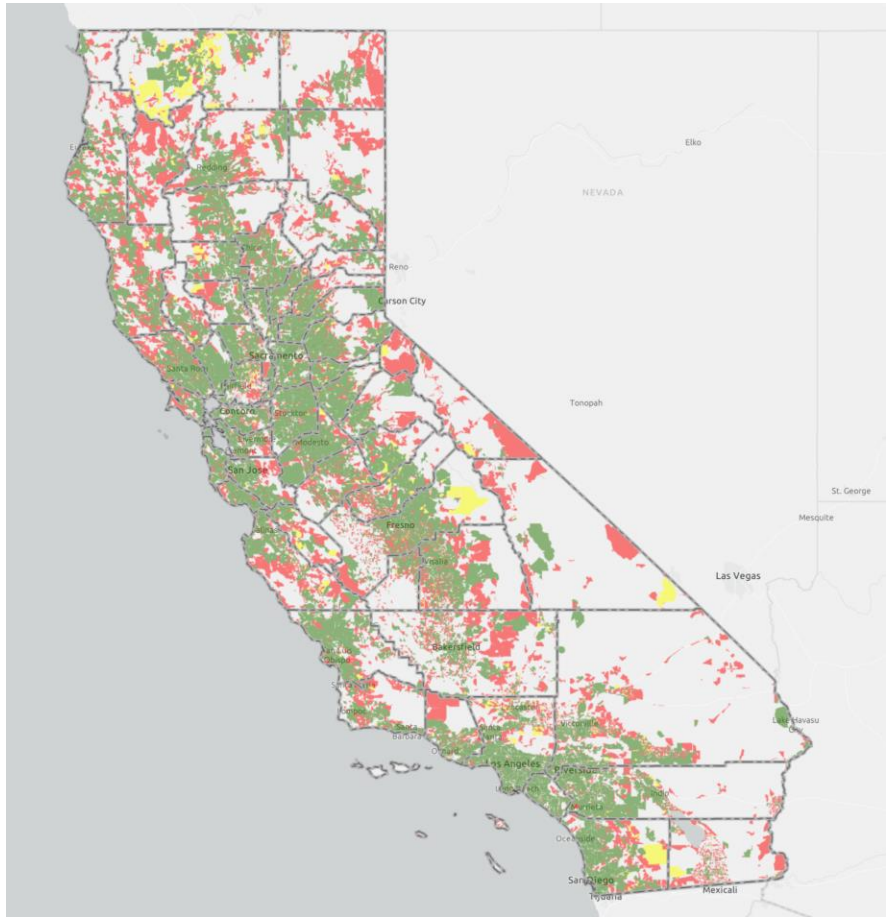
- Current Timelines

Event	Date
Broadband Availability Map Published	July 2025
CASF Infrastructure Account Application Deadline	October 31, 2025
Deadline for Staff to post Application Summaries and Maps to CPUC website and notify CASF Distribution List	November 14, 2025
Deadline for Challenge Submissions	December 5, 2025
Deadline for Application Approvals Under Ministerial Review	March 31, 2026
Deadline for Publishing Draft Resolutions Recommending Project Approval	May 15, 2026

Broadband Map Updates

Zhuoying Liu, Research Data Analyst

California Interactive Broadband Map
Fixed Consumer Served Status



Legend

Fixed Consumer Served Status

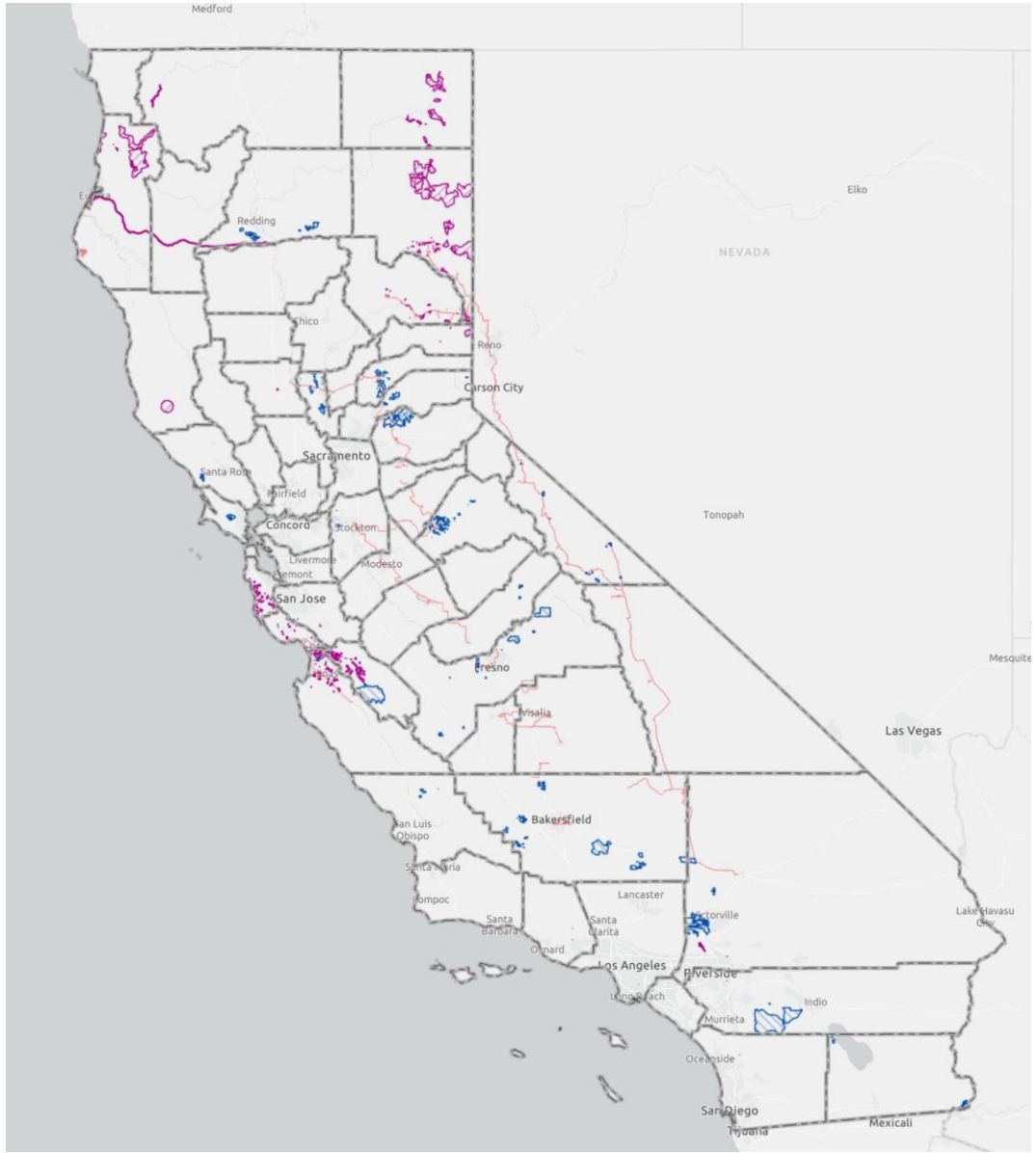
- Priority Unserved < 10 Mbps Down / 1 Mbps Up
- Unserved < 25 Mbps Down / 3 Mbps Up
- Served >= 25 Mbps Down / 3 Mbps Up
- Unpopulated

Counties

California Interactive Broadband Map - CASF Grant Layers

Legend
CASF Approved Last-Mile Projects
CASF Approved Hybrid Projects
CASF Approved Middle-Mile Projects
Counties

- CASF Approved Last-Mile Projects
- CASF Approved Hybrid Projects
- CASF Approved Middle-Mile Projects



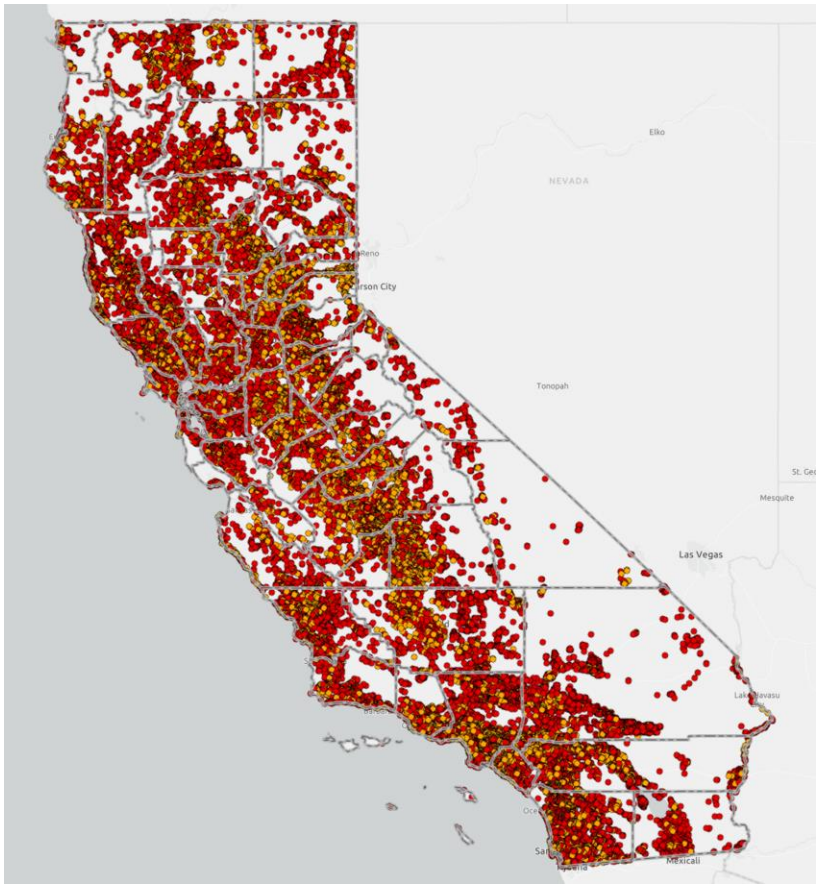
Examples: Project properties

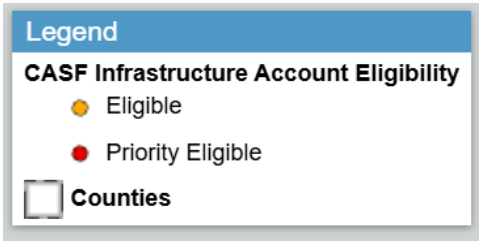
CASF Approved Hybrid Projects	
Provider Name:	LCB Communications, LLC
Doing Business As Name:	LCB Communications
FCC Registration Number:	23325780
Project Name:	Aromas San Juan Project
Project Type:	Hybrid
Technology of Transmission:	Optical Carrier/Fiber to the end user/Terrestrial Fixed Wireless
Downstream Speed (Mbps):	5000
Upstream Speed (Mbps):	5000
Households:	1101
Application Date:	6/1/2023
Application Type:	CPCN
Requested Amount:	$29,482,766.00
Approval Status:	Approved
Approval Date:	6/20/2024
Grant Amount:	$29,482,766.00
Funding Level:	100%
Resolution:	T-17817

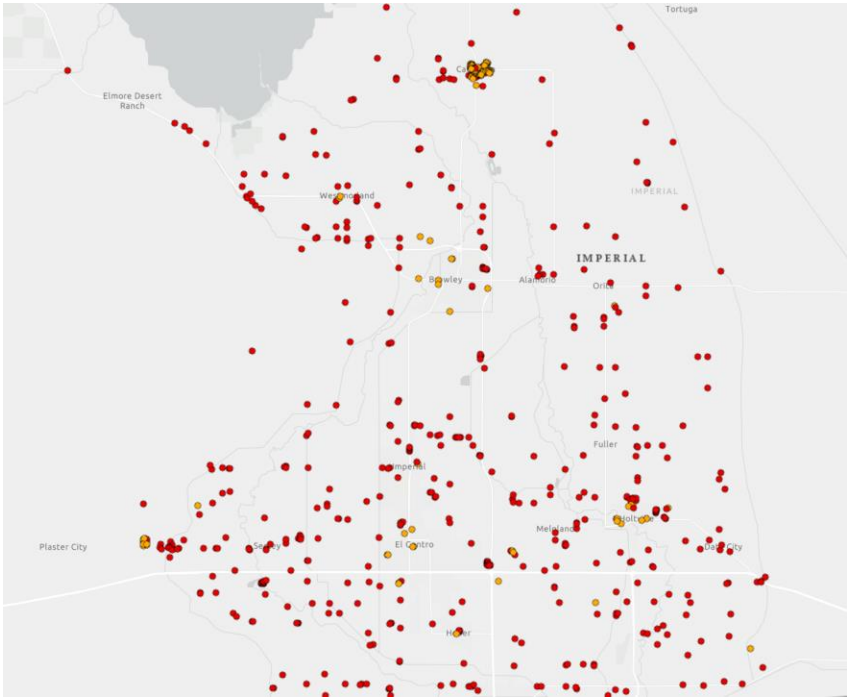
CASF Approved Middle-Mile Projects	
Provider Name:	Sunesys
Doing Business As Name:	Sunesys
FCC Registration Number:	11588746
Project Name:	Connected Central Coast
Project Type:	Middle Mile
Technology of Transmission:	Optical Carrier/Fiber to the End User
Downstream Speed (Mbps):	100
Upstream Speed (Mbps):	100
Households:	11124
Application Date:	2/1/2013
Application Type:	CPCN
Requested Amount:	$10,640,000.00
Approval Status:	Approved
Approval Date:	4/10/2014
Grant Amount:	$5,596,943.00
Funding Level:	80%
Resolution:	T-17429
CASF_OID:	66

CASF Approved Last-Mile Projects	
Provider Name:	Pinnacles Telephone Company
Doing Business As Name:	Pinnacles
FCC Registration Number:	1537133
Project Name:	Pinnacles Monument
Project Type:	Last Mile
Technology of Transmission:	Optical carrier/Asymmetric xDSL
Downstream Speed (Mbps):	6
Upstream Speed (Mbps):	1
Households:	47
Application Date:	2/1/2013
Application Type:	CPCN
Requested Amount:	$195,299.00
Approval Status:	Approved
Approval Date:	10/31/2013
Grant Amount:	$195,299.00
Funding Level:	60%
Resolution:	T-17420

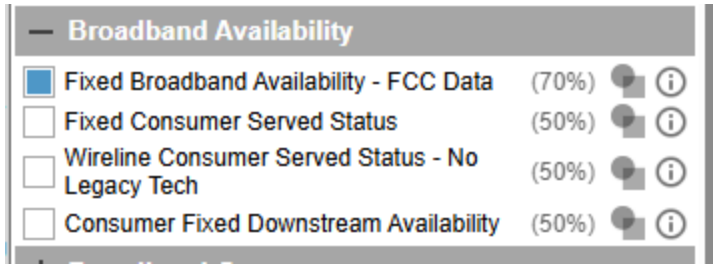
California Interactive Broadband Map - Eligibility layer

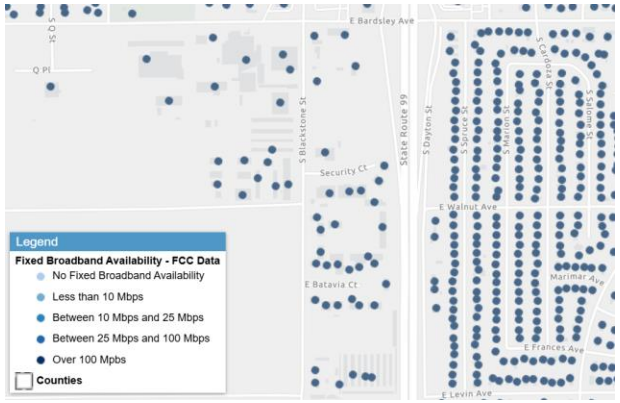


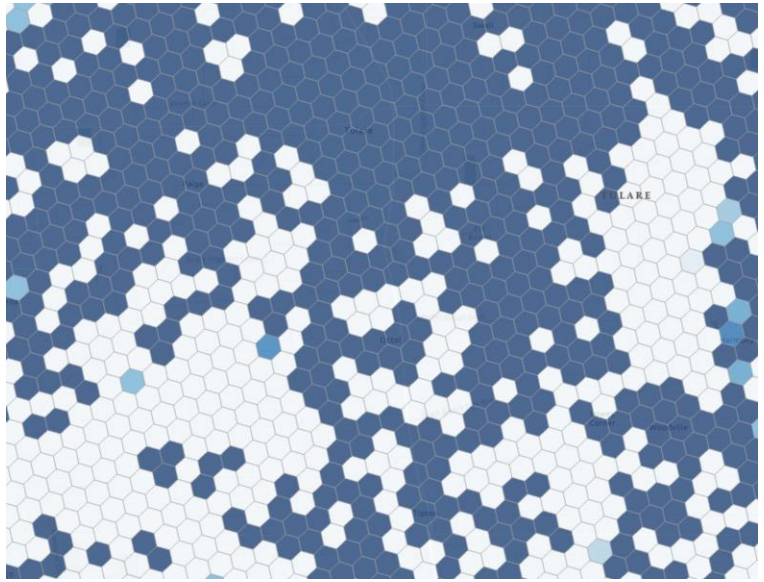


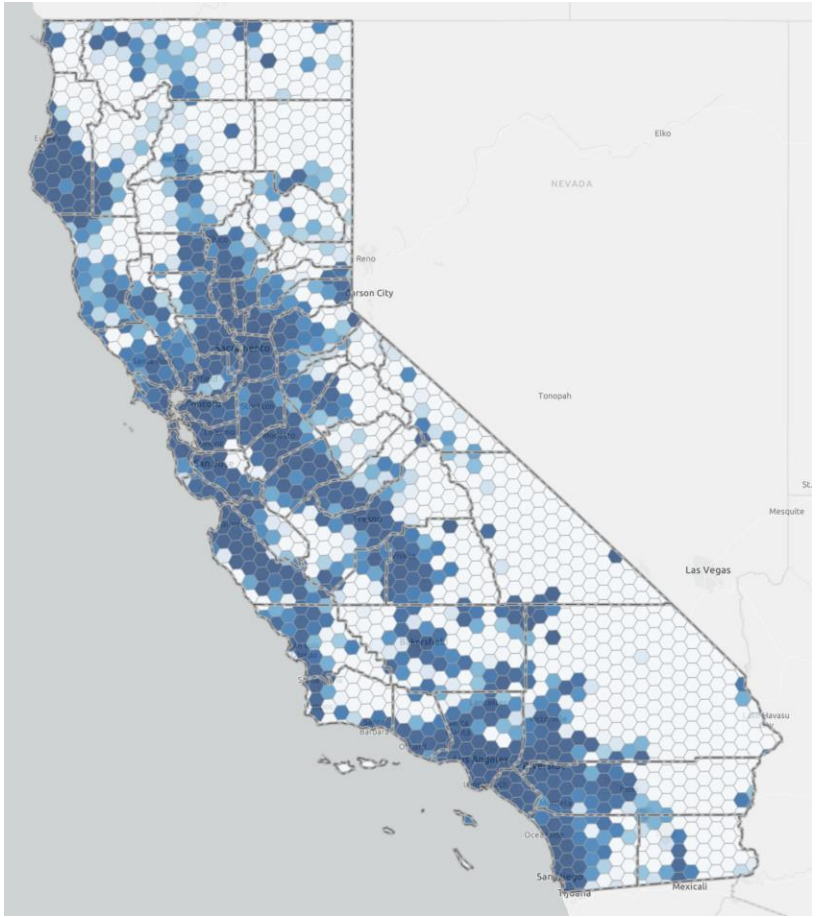


California Interactive Broadband Map - FCC data layer

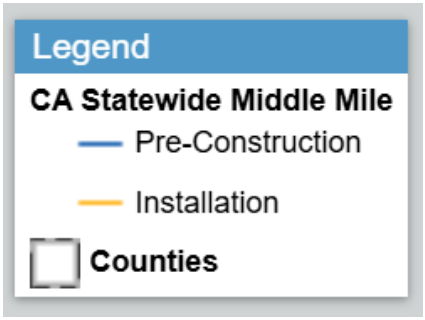




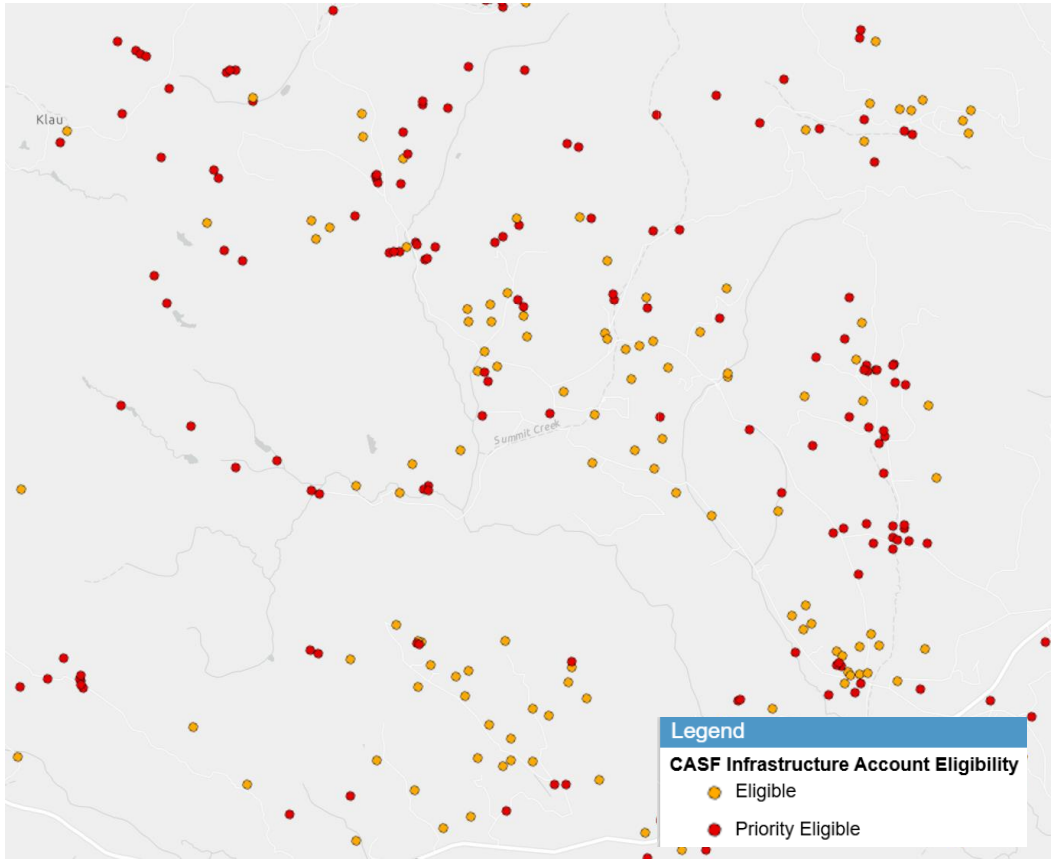




California Interactive Broadband Map – CA Statewide Middle Mile Layer



CASF Funding - Serviceable Locations

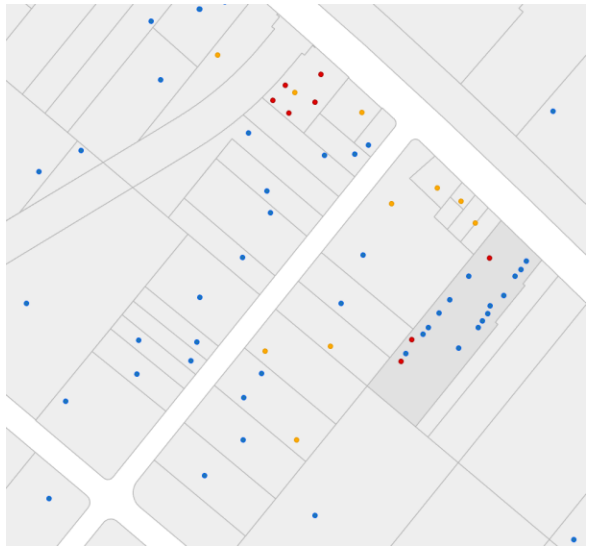


- Priority Eligible : Download speeds less than 10 Mbps and upload speeds less than 1 Mbps.
- Eligible Unserved :Download speeds between 10 and 25 Mbps, and upload speeds between 1 and 3 Mbps.
- Served - not eligible for funding : Meet or exceed the federal benchmark of 25 Mbps download and 3 Mbps upload speeds.

Broadband Serviceable Location Fabric

- A dataset created by CostQuest Associates
- Broadband Serviceable Locations across the United States
- Specific locations where broadband internet access can be delivered
- Includes a unique identifier for each broadband serviceable location(location_id)

location_id	latitude	longitude	bsl_flag
1322167721	37.789247	-122.180307	True
1322196705	37.794602	-122.25634	True
1322196706	37.519448	-122.038491	True
1322196707	37.532163	-122.071552	True
1322196709	37.614927	-121.850068	True
1322196710	37.54728	-121.984906	True
1322196712	37.853352	-122.253651	True
1322196713	37.588797	-121.869707	True
1322196715	37.612749	-122.067673	True
1322196717	37.860023	-122.253162	True
1322196718	37.823061	-122.207234	True



NAME

- December 2024 (Version 6)
- June 2024 (Version 5)
- December 2023 (Version 4)
- June 2023 (Version 3)
- December 2022 (Version 2)
- June 2022 (Version 1)

Location ID is one of the most important fields in the dataset and acts as a primary key for joining, tracking, and validating broadband availability at specific addresses.

Use the CQ fabric to obtain Location ID and associated information.

Project Location Data Submission Requirements

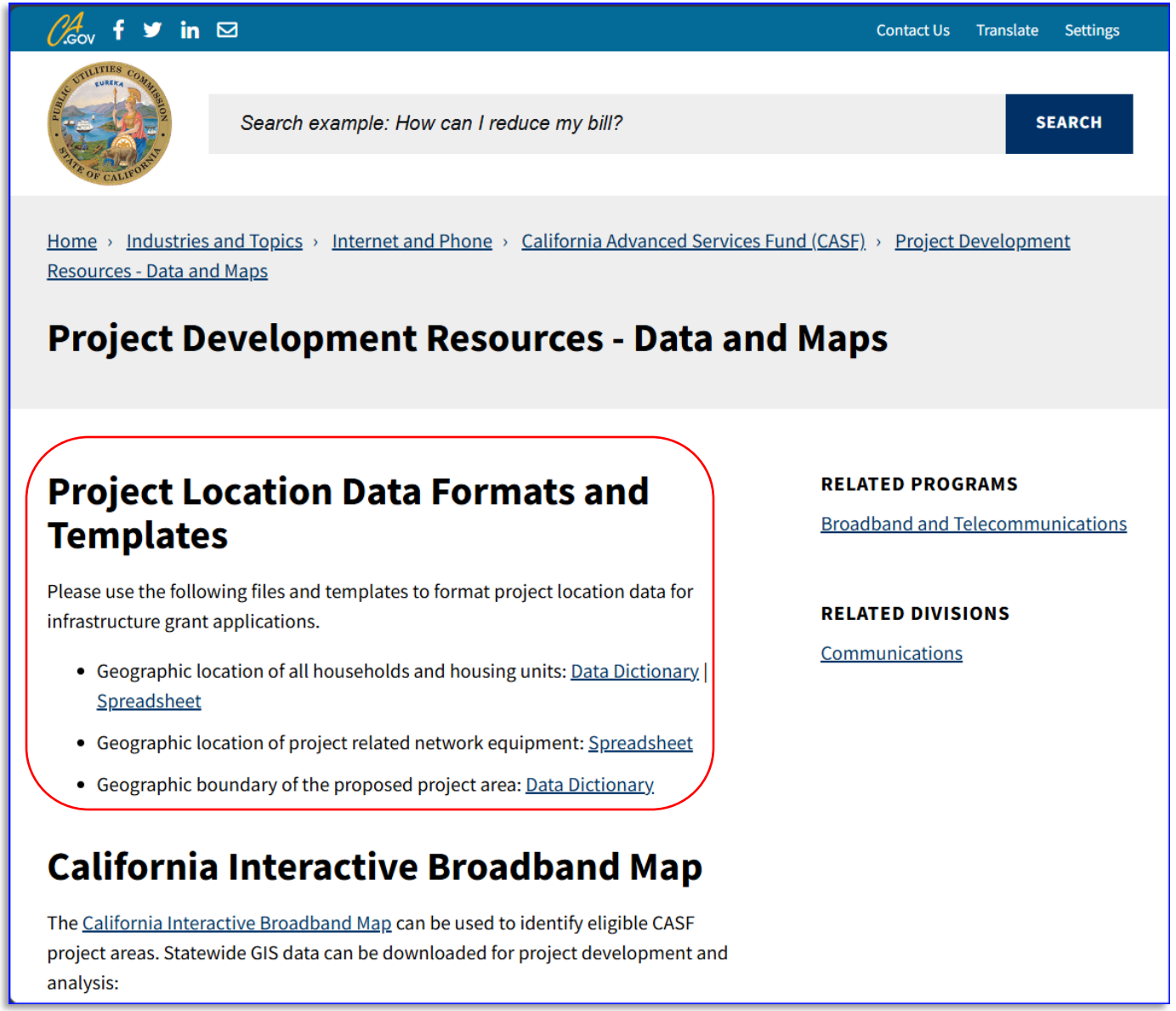
Ben Swearingen, Regulatory Analyst

California Public Utilities Commission

Project Development Resources – Data & Maps

[Project Location Data Formats and Templates]

- Website updates coming soon!



Project Development Resources - Data & Maps

Data Dictionary

California Public Utilities Commission

California Advanced Services Fund
Broadband Infrastructure Grant Account

CASF Infrastructure Project Location Data Dictionary
Geographic Location of all Households and Housing Units

Please submit your data using the corresponding '*Geographic Location of all Households and Housing Units in the Proposed Project Area*' spreadsheet.

DATA FIELDS:

Field	Description	Type	Example
DBA _Name	Doing Business As (DBA) Name of company, i.e, the name of the entity customers could contact to purchase service.	Text	ABC Company
FRN	Provider FCC Registration Number. See more here. (*ONLY numbers, include leading zeros, no other characters*)	Text	0008402202
Location Data			
Location ID	Location ID: Unique identification number for each FCC Broadband Serviceable Location Fabric location. See more here.	Integer	1322254063
Address	Street Address including House Number, Prefix, Street Name, Street Type and Suffix. No P.O. Boxes!	Text	123 N Main St
Unit	Unit Number or Letter if applicable. *(Optional)*	Text	Apt. 1
City	City Name	Text	San Francisco
State	Abbreviated US State Name	Text	CA

Geodata Spreadsheet

California Public Utilities Commission

California Advanced Services Fund
Broadband Infrastructure Grant Account

Geographic Data Dictionary for Project Serviceable Locations
(All fields are required unless otherwise stated)

Field Name	Full Name	Description	Type	Example
DBA_Name	DBA Name	Doing Business As (DBA) Name of your company.	Text	ABC Telecom
FRN	FCC Registration Number	Provider FCC Registration Number (ONLY numbers no other characters)	Text	0008402202
LocationID	Location ID	Broadband Serviceable Location Fabric unique location identifier	Integer	1322254063
Address	Street Address	Street Address including House Number, Prefix, Street Name, Street Type and Suffix. No P.O. Boxes!	Text	123 N Main St
Unit	Unit Number	Unit number or letter if applicable.	Text	Apt 1
City	City	City Name	Text	San Francisco
State	State	Abbreviated US State Name	Text	CA
Zip5	Zip Code 5	5 Digit Zip Code	Integer	94102
Zip4	Zip Code 4	4 Digit Zip Code	Integer	1234
Latitude	Latitude	Latitude coordinate of the subscriber location. It must have at least 7 decimal places. Must be in the WGS84 or NAD83 geographic coordinate system. (value must be within 32 to 42)	Float	37.780479
Longitude	Longitude	Longitude coordinate of the subscriber location. It must have at least 7 decimal places. Must be in the WGS84 or NAD83 geographic coordinate system. (value must be within -114 to -124)	Float	-122.421017
BlockCode	Census Block Code	15-digit US Census Block code. ALL California Census codes begin with "06".		
		Category of technology for the provision of Internet access service used by the portion of the connection that would terminate at the end-user location (premises). Cable Modem (41 – 43) and Optical Carrier/Fiber (50) are acceptable codes for this section. 10 = Asymmetric xDSL 11 = ADSL2, ADSL2+ 12 = VDSL		

Geographic Data Format for Project Serviceable Locations (All fields are required unless otherwise stated)

DBA_Name	FRN	LocationID	Address	Unit	City	State	Zip5	Zip4	Latitude	Longitude	BlockCode	TechCode	DownSpeed	UpSpeed	DeployDate	TotConnect	ResConnect

Project Development Resources – Data & Maps

- **GIS Data Format**:
  - **Tabular**: Excel (provided template preferred), CSV, File Geodatabase(.gdb),
  - **Geospatial**:
    - Shapefile (.shp, .shx, .dbf, etc.)
    - KML/KMZ (.kml, .kmz)
    - GPKG (GeoPackage)…
- Must have an assigned projection: **WGS-84**
- All project area polygons must be closed, non-overlapping polygons with a single, unique identifier.
- Each polygon must have a single value for each of the following fields: **technology**, **downstream bandwidth**, and **upstream bandwidth**.
- List **each location** capable of providing **minimum speed of 100 Mbps download and 20 Mbps upload** with the following:
    - Street Address
    - Latitude and Longitude coordinates
    - Location ID - A unique 10-digit identifier assigned to each broadband serviceable location (see CostQuest Licensing | BroadbandUSA for information on how to obtain Location ID)

Project Development Resources – Project Area Map

Instructions

California Public Utilities Commission — California Advanced Services Fund Broadband Infrastructure Grant Account

Instructions for the Geographic Boundary of the Proposed Project Area

INSTRUCTIONS:

1. The KMZ or Shapefile must be submitted as a compressed data file (*.zip file).
2. Add your *DBA name* to the beginning of the file name, followed by an underscore "_".
   EXAMPLE: Item 4_*ABC_Project_Name_<year>*).
3. Submit to CASF_Application_Questions@cpuc.ca.gov by the deadline.

WHAT THE MAP SHOULD SHOW:

Applicants should submit polygons in a KMZ or Shapefile format representing the proposed project area containing CASF Eligible Serviceable Locations and maximum advertised speeds per technology.

The data associated with each polygon should indicate the proposed maximum advertised downstream and upstream data speeds associated with that network technology, and the coverage area polygon should depict the boundaries where proposed users should expect to receive those advertised speeds.

STANDARDS:

1. All map areas must be closed, non-overlapping polygons with a single, unique identifier.
2. Any variation in any of the required fields necessitates the creation of a separate polygon showing the relevant coverage. In other words, each polygon must have a single value for each of the following fields: technology, downstream bandwidth, and upstream bandwidth.
3. The KMZ or Shapefile must have an assigned projection with an accompanying .prj file.
4. The KMZ or Shapefile must use unprojected (geographic) WGS84 geographic coordinate system.
5. The shapefile must be submitted as a ***.zip file. This can be done with a program like WinZip or, in Windows by selecting the files associated with a shapefile, right-clicking the files, then clicking '***Send to***' then '**Compressed (zipped) folder**'.
6. In addition to the shapefile, each submitted *.zip file must include metadata or a plain text "readme" file that contains a comprehensive explanation of the methodology employed to generate the map layer including any necessary assumptions and an assessment of the accuracy of the finished product.

Geodata Spreadsheet

California Public Utilities Commission — California Advanced Services Fund Broadband Infrastructure Grant Account

Geographic Location of CASF Project-Related Network Equipment

Company Information		Equipment	Geocoded Location		Address information				
DBA_Name	FRN	Network Equipment (item description)	Latitude	Longitude	Address (if available)	City	State	Zip5	Zip4

Contact Information

- Application Questions: Contact Your Regional Consortia FIRST: Consortia Contact Information
- CASF Application Questions: CASF_Application_Questions@cpuc.ca.gov
- Correspondence/Questions regarding approved projects: CASF_Infrastructure_Grant_Administrator@cpuc.ca.gov
- Energy Division-CEQA-Correspondance/Questions regarding (California Environmental Quality Act) CASF_CEQA@cpuc.ca.gov
- Line Extension inquiries: CASFLineExtensionProgram@cpuc.ca.gov
- CASF Webinar inquiries: CASF_Workshop@cpuc.ca.gov
- Broadband Mapping inquiries: Broadbandmapping@cpuc.ca.gov

Q&A

Rosa Sauer, Regulatory Analyst
Jayson Santos, Senior Telecommunications Engineer

Send in your questions!

Email to casf_workshop@cpuc.ca.gov

Thank You!
(if we didn't respond to your question, we will respond through email)