Welcome
The program will begin at 10:00am.

Prepare your WebEx Event space:

1. Locate this toolbar at the bottom of your WebEx window. Click Participants and Chat icons to open the panels.

2. Raise your hand by clicking the hand icon. Lower it by clicking again.

3. For assistance/questions, select TO: ALL PANELISTS
When providing chat feedback, select TO: ALL PARTICIPANTS
Send a chat message to all participants with your name and organization.
Last Mile Broadband
CPUC Funding Programs to Close the Digital Divide

June 1, 2022
Overview of Program

• Opening Remarks – Chris Moore
• Funding Programs, Goals and Timelines – Rob Osborn
• Q&A and Discussion
• Closing Comments
Questions?

Please type your questions in the chat box at any time during the presentation.

Please only submit questions that are relevant to the topic being presented.
CPUC News and Outreach Office

Business and Community Outreach Liaisons

Build relationships with stakeholders
Allow two-way communication
Implement the CPUC's policies externally and help shape policy internally

- Community Based Organizations
- Local Governments
- Local Business Groups
- Diverse Organizations
Contents

• Terms and models
• Broadband Package
  • Middle Mile
  • Last-Mile
    • Federal Funding Account
    • Loan Loss Reserve Account
  • CASF
    • Adoption, Consortia, & Infrastructure Grants
    • CASF Consortia
    • Public Housing Grants
• Local Agency Technical Assistance
• Tribal Technical Assistance
• Mapping broadband
• Affordable Connectivity Program (ACP)
• Broadband survey
“Middle-Mile” refers to the high-capacity fiber-optic cables that traverse long distances (i.e., 10s-100s of miles) to connect communities to the Internet backbone.

“Last-Mile” refers to the final leg of a network that provides service to the home, business or community institution.
## Public-Private Broadband Models

<table>
<thead>
<tr>
<th>Number</th>
<th>Model Description</th>
<th>Rights of Way</th>
<th>Middle Mile</th>
<th>Last Mile</th>
<th>Infrastructure</th>
<th>Customers</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Full Municipal Broadband</td>
<td>Public Entity</td>
<td>Public Entity</td>
<td>Public Entity</td>
<td>Public Entity</td>
<td>Public Entity</td>
<td>Chattanooga</td>
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<tr>
<td>2</td>
<td>Publicly-owned, Privately-Serviced</td>
<td>Public Entity</td>
<td>Public Entity</td>
<td>Public Entity</td>
<td>Service Provider</td>
<td>Service Providers</td>
<td>Westminster</td>
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<tr>
<td>3</td>
<td>Hybrid Ownership</td>
<td>Public Entity</td>
<td>Public Entity</td>
<td>Service Providers</td>
<td>Service Providers</td>
<td>Service Providers</td>
<td>Lincoln</td>
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<tr>
<td>4</td>
<td>Private Developer Open Access(^1)</td>
<td>Public Entity</td>
<td>Private Developer</td>
<td>Private Developer</td>
<td>Several Service Providers</td>
<td>Service Providers</td>
<td>Fullerton</td>
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<tr>
<td>5</td>
<td>Full Private Broadband</td>
<td>Public Entity</td>
<td>Service Providers</td>
<td>Service Providers</td>
<td>Service Providers</td>
<td>Service Providers</td>
<td>Boston</td>
</tr>
</tbody>
</table>

Note: 1) Private Developer is defined as private company that builds, owns and operates the network infrastructure and offers open access to it to several retail SPs that provide service on the top.

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California Public Utilities Commission

US Ignite Whitepaper on Broadband Models (July 2020)
1. **Statewide Middle Mile Network** - $3.2 billion
   - Dep’t of Technology (CDT) leads effort with assistance from CPUC, Caltrans, and Golden State Network.

2. **Broadband Technical Assistance** - $50 million total**
   - Purpose: Help prepare local governments & Tribes for broadband infrastructure investments.

3. **Loan Loss Reserve** - $750 million
   - Purpose: enable local governments & nonprofits to secure financing for broadband infrastructure.

4. **Federal Funding Account** - $2 billion
   - Purpose: Funding for last-mile broadband infrastructure projects.

5. **California Advanced Services Fund (CASF)** ~up to $150 million per year
   - Purpose: assist with broadband infrastructure deployment & adoption in public housing, Tribes, & unserved areas.

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**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.

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* May be increased pursuant to Public Utilities Code Section 281(d)(4)
** Included in $2 billion Last-Mile Initiative
## Middle-Mile Location Development Timeline

<table>
<thead>
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</thead>
<tbody>
<tr>
<td>Legislature passes and Governor Newsom signs SB 156</td>
<td>CPUC releases 2 Rulings on project locations, routes, and network characteristics</td>
<td>Solicits both formal and informal public comments</td>
<td>CPUC collects and analyzes additional data request to broadband middle-mile network providers</td>
<td>CPUC, in coordination with CDT, releases additional analysis, maps, and data</td>
<td>CPUC, in coordination with CDT, releases additional analysis, maps, and data</td>
</tr>
</tbody>
</table>

### CPUC Broadband Infrastructure Deployment Proceeding (R. 20-09-001)

- Formal public process and venue for developing and updating middle-mile mapping analysis and data
- Also serves as the public forum for developing rules for the last-mile program.
1. CPUC identified Middle-Mile Broadband Network

2. Dept. of Technology identifies highway project locations

3. Caltrans builds at highway locations

Data & Analysis

The California Public Utilities Commission (CPUC) statewide open-access middle-mile network locations as specified in Government Code Section 11549.54. This site provides access to middle-mile locations analysis and data.
Middle Mile Public Comment

Middle-Mile Broadband

About  Data & Analysis  Resources  MMAC Meetings  Public Comment

Caltrans Scheduled Projects

Public Comments

Public Comments on Preliminary Middle-Mile Map
Middle-Mile Broadband

About  Data & Analysis  Resources  MMAC Meetings  Public Comment

Unserved Locations

Caltrans Scheduled Projects

Public Comments

Census Block Group
060376007031

There are 1406 total units in this block group.

There are 217 Unserved Residential Units.

There are 2 Unserved Non-Residential Units.
Last Mile Federal Funding Account

- The new $2 billion **Federal Funding Account** 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**.
- Eligible Areas are those unserved by a wireline provider that can reliably provide 25/3 Mbps service.
- CPUC plans to publish priority project areas composed of unserved locations.
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 Rulemaking 20-08-021**
- **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.

Source: Altman Solon

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1. *Estimated Cities with Broadband from Municipal Networks* by State

   - Source: Altman Solon
CASF Adoption, Consortia, & Infrastructure Grants

- Broadband Adoption, Consortia, and Infrastructure grants are supported by the California Advanced Services Fund (CASF) 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 approved on May 19; applications planned for June/July. Proposal on Infrastructure expected before end of second quarter 2022.

- **Action**
  - Become a party to the Rulemaking 20-08-021
  - Join the mailing list for funding availability (email CASF_Adoption@cpuc.ca.gov)
<table>
<thead>
<tr>
<th>Consortium</th>
<th>Counties</th>
<th>Lead</th>
<th>E-mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pacific Coast</td>
<td>San Luis Obispo, Santa Barbara, Ventura</td>
<td>Bruce Stenslie</td>
<td><a href="mailto:bruce@edcollaborative.com">bruce@edcollaborative.com</a></td>
</tr>
<tr>
<td>Central Coast</td>
<td>Monterey, Santa Cruz, San Benito</td>
<td>Freny Cooper</td>
<td><a href="mailto:fcooper@mbep.biz">fcooper@mbep.biz</a></td>
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<tr>
<td>Connected Capital</td>
<td>Sacramento, Sutter, Yolo, Yuba</td>
<td>Alan Lange</td>
<td><a href="mailto:alan.lange@valleyvision.org">alan.lange@valleyvision.org</a></td>
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<tr>
<td>Gold Country</td>
<td>Sierra, Nevada, Placer, El Dorado, Alpine</td>
<td>Kari Sinoff</td>
<td><a href="mailto:ksinoff@sierrabusiness.org">ksinoff@sierrabusiness.org</a></td>
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<tr>
<td>Inland Empire</td>
<td>San Bernardino, Riverside</td>
<td>Martha van Rooijen</td>
<td><a href="mailto:martha@iebroadband.com">martha@iebroadband.com</a></td>
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<tr>
<td>Los Angeles</td>
<td>Los Angeles</td>
<td>Bill Allen</td>
<td><a href="mailto:bill.allen@laedc.org">bill.allen@laedc.org</a></td>
</tr>
<tr>
<td>North Bay North Coast</td>
<td>Mendocino, Marin, Napa, Sonoma</td>
<td>Calvin Sandeen</td>
<td><a href="mailto:calvin.sandeen@sonoma-county.org">calvin.sandeen@sonoma-county.org</a></td>
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# CASF Consortia (2 of 2)

<table>
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<td>Butte, Lassen, Modoc, Plumas, Shasta, Siskiyou, Tehama</td>
<td>Jason Schwenkler</td>
<td><a href="mailto:jschwenkler@csuchico.edu">jschwenkler@csuchico.edu</a></td>
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<tr>
<td>Redwood Coast</td>
<td>Humboldt, Del Norte, Trinity</td>
<td>Connie Stewart</td>
<td><a href="mailto:ces54@humboldt.edu">ces54@humboldt.edu</a></td>
</tr>
<tr>
<td>San Joaquin Valley</td>
<td>San Joaquin, Stanislaus, Merced, Madera, Fresno, Tulare, Kings, and</td>
<td>Eduardo Gonzalez</td>
<td><a href="mailto:edgonzalez@csufresno.edu">edgonzalez@csufresno.edu</a></td>
</tr>
<tr>
<td></td>
<td>Western Kern counties</td>
<td></td>
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<tr>
<td>Southern Border</td>
<td>San Diego and Imperial</td>
<td>Timothy Kelley</td>
<td><a href="mailto:tim@ivedc.com">tim@ivedc.com</a></td>
</tr>
<tr>
<td>Lake Tahoe Basin</td>
<td>Lake Tahoe Basin</td>
<td>Heidi Hill Drum</td>
<td><a href="mailto:heidi@tahoeprosperity.org">heidi@tahoeprosperity.org</a></td>
</tr>
<tr>
<td>Upstate California</td>
<td>Glenn, Colusa, Lake</td>
<td>Jason Schwenkler</td>
<td><a href="mailto:jschwenkler@csuchico.edu">jschwenkler@csuchico.edu</a></td>
</tr>
</tbody>
</table>

CASF Public Housing Account

• The revamped Broadband Public Housing Account Grants will provide grants to connect qualifying low-income housing, such as publicly supported housing communities, with infrastructure to provide free internet service.
• **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.
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.

- Up to **$1M** per entity; up to **$500K** for ministerial review.

- **Timing** - Applications June-July 2022.

- **Actions** - Public entities identify needs and prepare to apply.

- [More information](#)
Tribal Technical Assistance Grants

What do they fund?
• Grants to assist California Tribes in developing market studies, feasibilities studies, and/or business plans, which support Tribes in their pursuit of improved communications were specified in the Commission Decision.

How much are the grants?
• Grants shall not exceed $150,000 per Tribe, per fiscal year.
• The aggregate amount available for awards (to all Tribes) shall not exceed $5,000,000 or until funds are replenished and/or exhausted.

Who is eligible?
• California Tribes with or without federal recognition that demonstrate Tribal leadership support are eligible for technical assistance grants.
• Projects must be completed within 24 months

Questions to: Tribal_Tech_Assist@cpuc.ca.gov
Mapping Broadband – More Granularity

Without a fabric of locations, broadband service areas are defined by Census blocks that presume an entire block is served no matter whether service is actually provided to every location in the block.

Building a location fabric provides baseline data about each specific location that could potentially be served by broadband. The fabric does not indicate whether broadband service is being provided.

With the location fabric as a foundation, broadband providers can report their service areas with polygons, showing more accurately which specific locations do and do not have service. Many locations previously thought to be served are now shown more accurately without service.

Source: GAO-21-104447 report to congressional committees, Sep. 2021
The Affordable Connectivity Program (ACP) is a U.S. government program that helps many low-income households pay for broadband service and internet connected devices.

If your household is eligible, you could receive:
- Up to a $30/month discount on your internet service
- Up to a $75/month discount if your household is on qualifying Tribal lands
- A one-time discount of up to $100 for a laptop, tablet, or desktop computer (with a co-payment of more than $10 but less than $50)
- A low-cost service plan that may be fully covered through the ACP

Sign up here:
- https://www.affordableconnectivity.gov/how-to-apply/

Search for providers near you:
- https://www.affordableconnectivity.gov/companies-near-me/
CPUC Broadband Survey for Local Governments

• Please participate in the CPUC Broadband Survey for Local Governments by **May 30**!

• The survey assesses each community's broadband assets, broadband needs, and interest in state grant programs.

• Survey responses will inform program development and outreach.

• **Survey Link:**
  https://www.surveymonkey.com/r/X8WWRHX
Thank You
contact: statewidebroadband@cpuc.ca.gov

Deployment of Anza Electric’s CASF Connect Anza project, Riverside County
Q&A and Discussion

Please Type Your Questions in Chat
Local Government and Community Liaisons

**Northern California**

Naveed Paydar: 415-703-1437  naveed.paydar@cpuc.ca.gov

**Southern California**

Jesus Torres: 213-563-9873  jesus.torres@cpuc.ca.gov
Chris Moore: 213-576-7095  chris.moore@cpuc.ca.gov
Asia Powell: 213-266-4732  asia.powell@cpuc.ca.gov
Hope Christman: 213-266-4731  hope.christman@cpuc.ca.gov