

# Middle-Mile Advisory Committee Meeting

JULY 19, 2024





# Agenda

**Welcome & Introduction** 

**Executive Report** 

**CDT: Project Updates** 

Middle-Mile Stakeholder Engagement

**Last-Mile Stakeholder Engagement** 

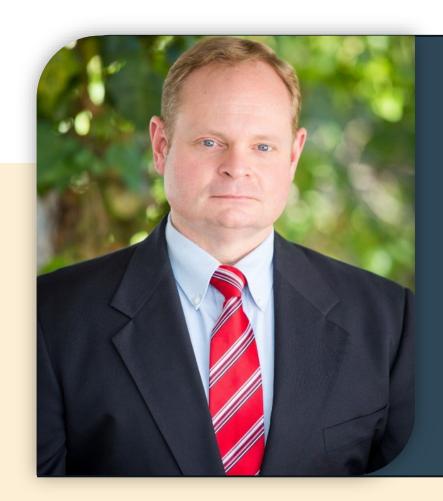
**Caltrans: Project Updates** 

**GoldenStateNet: Project Updates** 

**CPUC Last-Mile Updates** 

**Public Comments** 

**Next Meeting Date and Adjourn** 



# Mark Monroe

#### **DEPUTY DIRECTOR**

Middle-Mile Broadband Initiative California Department of Technology

#### **EXECUTIVE REPORT**

# **Budgetary Outcomes for MMBI**

## **2024 Budget Act**

- Preserves funding at \$3.873 billion.
- Directs existing funding to build to last-mile grant locations.
- Requires additional reporting.
- Allows the Department of Finance to augment the MMBI budget by up to \$250 million IF additional funding becomes available.



#### **EXECUTIVE REPORT**

# **Budgetary Impact on MMBI**

## **Project Update Under Existing Funding**

- Mapping:

   To reflect FFA grant locations
   using the current funding levels
- Coordination: Between CDT & CPUC on FFA grants
- Installation:
   Caltrans Construction and Indefeasible Rights of Use (IRU)/Lease & Joint-Build Partnerships from RFI<sup>2</sup>



# Original ~10,000 Mile Network (Requires Additional \$1.5B)

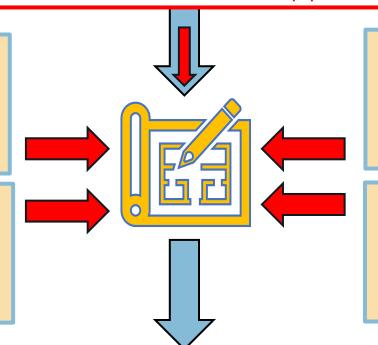
Additional \$1.5B NOT Approved

#### **SB 156**

Unserved and underserved communities identified by CPUC.

#### RFI2

Maximize use, faster high-value lease, joint-build, and purchase partnerships.



#### **NTIA Grant Requirements**

Develop segments consistent with CDT's \$73 million NTIA grant award.

SB 164 (2024 Budget Act)
Connection to last mile projects with FFA grant awards.

**Current ~8,000 Mile Network** (Based on Available Funding)

# Current ~8,000 Mile Network Validation Criteria



Connects unserved communities in urban and rural/tribal areas. \*

**27% Urban** 

73% Rural/Tribal



Reaches most disadvantaged communities. SB 535 (CalEnviroScreen)

<sup>\*</sup> Ratio maintained in the revised 8,000-mile maps.

## **CDT: Project Update**

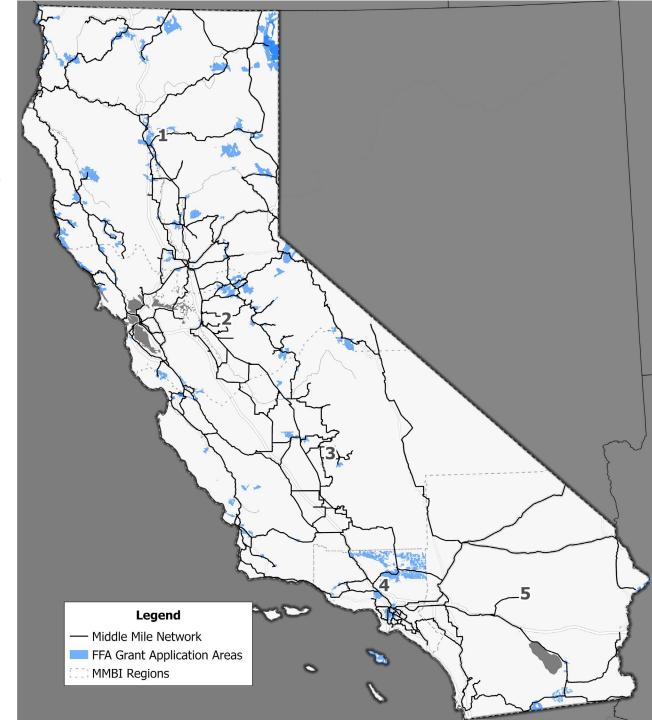
# Revised MMBI Network Map

#### Federal Funding Account (FFA):

- The CPUC received almost 500 FFA grant applications.
- Of these, 105 FFA applications indicate the intent to connect to the MMBI network (in blue).
- **SB 164** requires CDT to prioritize connections to last mile grant programs, such as the FFA Program.
- The **FFA grant program** is the only last mile grant program for which CPUC has currently open rounds.



- Current MMBI funding sufficient to reach all 105 FFA grant locations indicating intent to connect to MMBI:
  - Approximately 7,230 miles from RFI<sup>2</sup> partnerships.
  - Approximately 770 miles using Caltrans construction.
- Approximately 8,000-mile revised MMBI map.
- Consistent with SB 156 & SB 164.
- Interactive map on the MMBI website
  will be updated on July 22, 2024, to
  provide better detail of the network
  segments.



#### **CDT: Project Update**

# Moving Forward with Caltrans

~770 Miles (instead of ~4,000 Miles)

2 Continue Preconstruction for funded segments

Preconstruction savings will be used as a contingency for funding future segments consistent with SB 156 and SB 164.



Summary of MMBI Program:

2024 Budget Act

Partnership Type	IRU/Lease	Purchase	Joint-Build	Caltrans	Total
As of April 2024 (Last MMAC)	3,485 mi	435 mi	2,615 mi	4,024 mi	10,559 mi
As of July 2024 (This MMAC)	<b>*</b> 3,716 mi	424 mi	*3,107 mi	770 mi	<b>*</b> 8,017 mi
Change	+ 231 mi	- 11mi	+ 492 mi	<b>-</b> 3,254 mi	- 2,542 mi

<sup>\*</sup> These numbers include partnerships still in negotiation.

**CDT: Project Update** 

# Revised MMBI Network Funding Level \$3.87 billion

Cost Components		Revised Plan for \$3.87 Billion Base Budget				
Cost Components		Miles (#)	Total Cost	Avg. Cost/Mile		
	IRU/Lease	3,716	\$1,041M	\$280K		
RFI2 Miles	Joint-Build	3,107	\$1,140M	\$367K		
	Purchase	424	\$31M	\$73K		
	RFI2 Total	7,247	\$2,212M	\$305K		
Caltrans Miles		770	\$678M	\$880K		
Materials, Admin, Contingency, etc.		N/A	\$983M	N/A		
MMBN TOTAL		8,017	\$3,873M	\$483K		



# Shannon Martin-Guzman

#### **PROJECT DELIVERY MANAGER**

Middle-Mile Broadband Initiative California Department of Technology

## **CDT: Project Update**

# Stages of Progress & Definitions



- Design
- Engineering
- Permitting



#### Installation

- Construction, Trenching/Boring
- Laying Conduit
- Pulling Fiber
- Installing Vaults, Huts, Electronics
- Splicing
- Caltrans Construction Oversight



#### **Ready-to-Connect**

- Construction complete
- Infrastructure operational
- Communities can connect and get middle-mile service

## **CDT: Project Update**

# Installation Partner

#### **Arcadian**

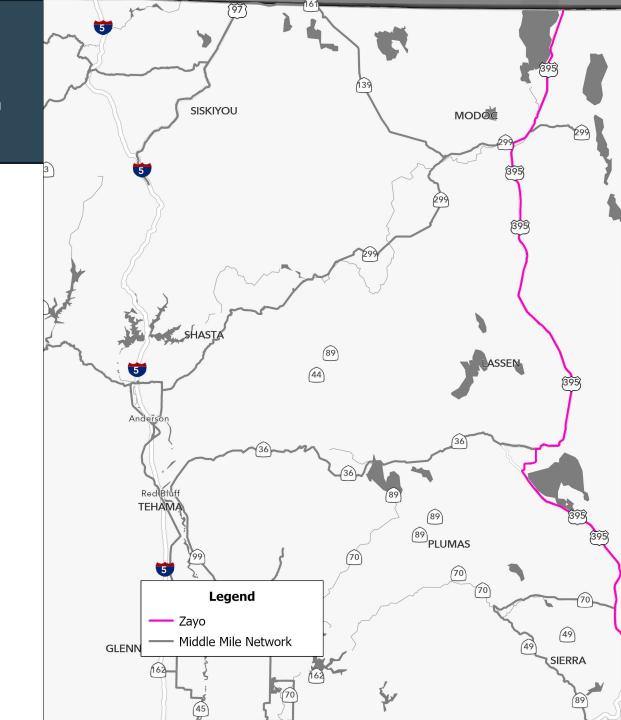
- Contract Miles: 1,006 Miles
- Preconstruction has progressed from 20% (201 miles) to 30% complete (302 miles) since April 2024
- Second groundbreaking gathering held in San Jose on June 25th, 2024
- Estimated Completion: Q4 2026



## **Installation Partner**

## Zayo

- Contract Miles: 193 Miles
- Installation has progressed from 1% (1 mile) in April to 5% (10 miles) complete since April 2024
- Estimated Completion: Q4 2024

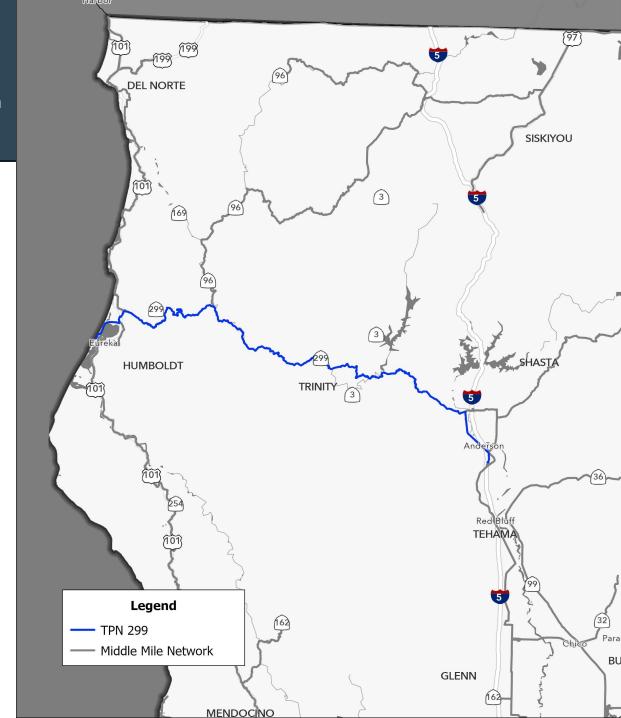


# Installation Partner

#### **TPN-299**

IRU/Lease

- Contract Miles: 172 Miles
- Installation has progressed from 60% (103 miles) to 85% (146 miles) complete since April 2024
- Estimated Completion: Q4 2024

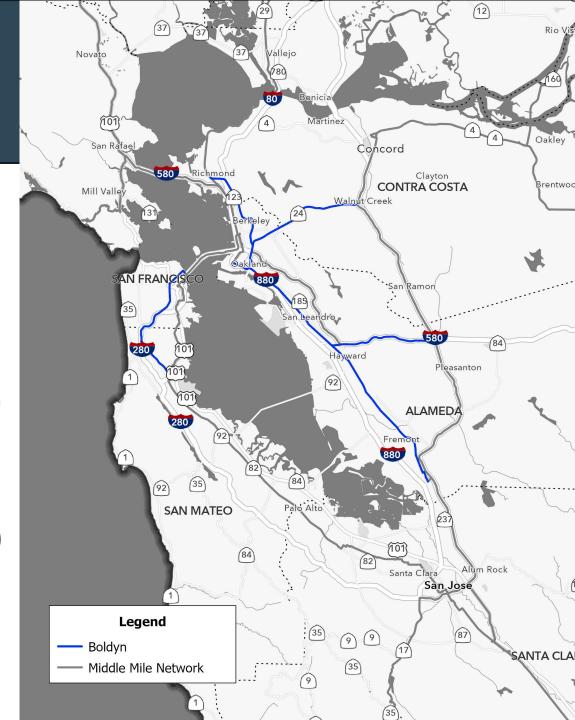


## **Installation Partner**

## Boldyn

IRU/Lease

- Contract Miles: 81 Miles
- Installation has progressed from 33% (27 miles)
   to 55% (45 miles) since April 2024
- Installation complete on 2 of 6 spans
   (San Francisco to San Bruno and Spear Street)
- Estimated Completion: Q2 2025



## **Installation Partner**

#### Lumen

Joint-Build & IRU/Lease

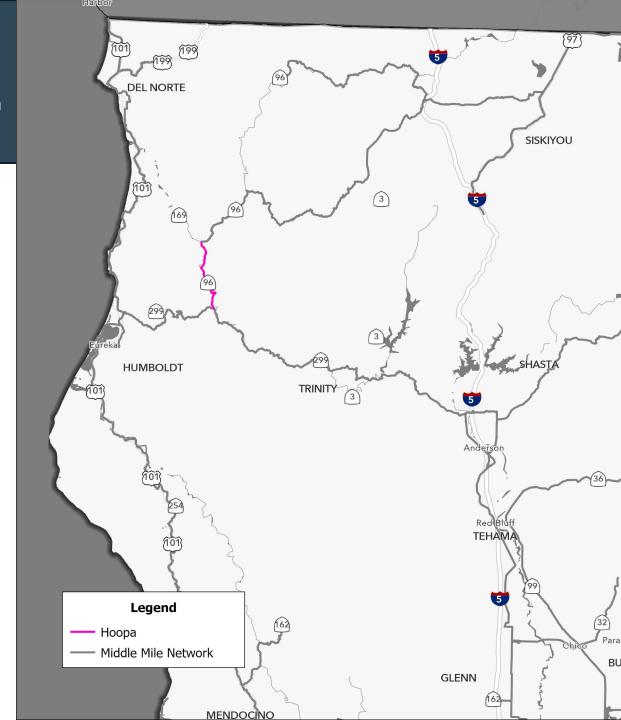
- Contract Miles: 1,896 Miles
   IRU/Lease 710 miles & Joint-Build 1186 miles
- Installation has been completed on 2% (40 miles) (LA to San Diego, El Cajon to Winterhaven, Santee to Lakeside)
- Estimated Completion: Q4 2026



## **Installation Partner**

## **Hoopa Valley**

- Contract Miles: 23 Miles
- Preconstruction has progressed from 25% to 60% since April 2024
- Estimated Start: Q1 2025
- Estimated Completion: Q4 2026

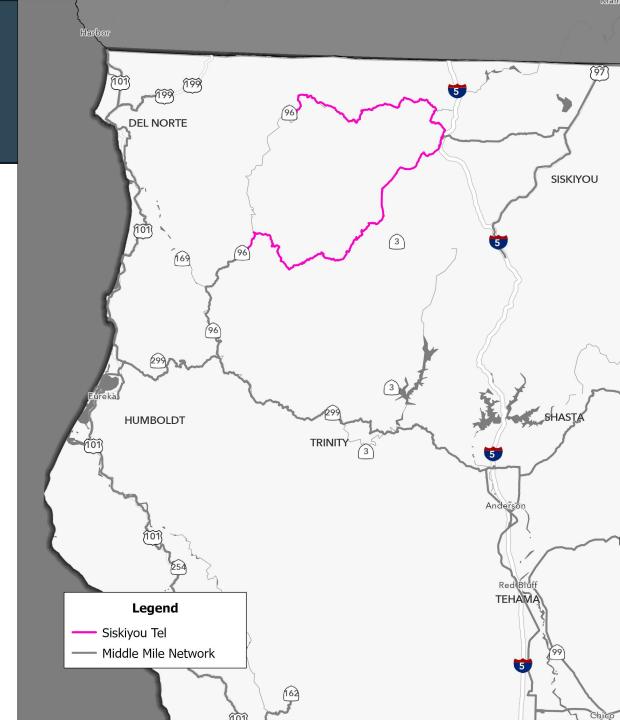


## **CDT: Project Updates**

# Installation Partner

## Siskiyou Tel

- Contract Miles: 165 Miles
- Preconstruction has progressed from 33% to 60% complete since April 2024
- Estimated Start: Q4 2024
- Estimated Completion: Q4 2026

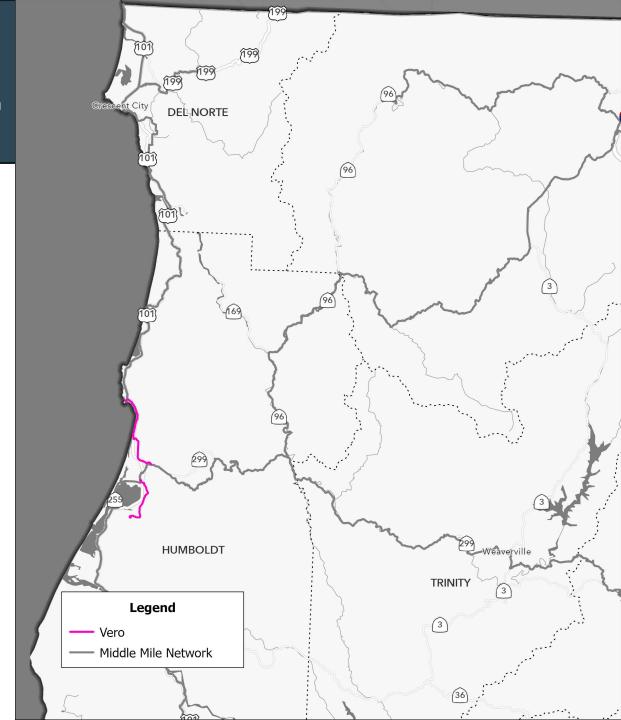


## **CDT: Project Updates**

## **Installation Partner**

#### Vero

- Contract Miles: 24 Miles
- Preconstruction has progressed from 75% to 95% complete since April 2024
- Estimated Start: Q3 2024
- Estimated Completion: Q3 2025



# Installation Partner

## Digital 395

Purchase

- Contract Miles: 424 Miles
- On track to finalize purchase by Q3 2024
- Necessary improvements on 9 hubs scheduled to start Q2 2025
- Estimated Completion: Q4 2025

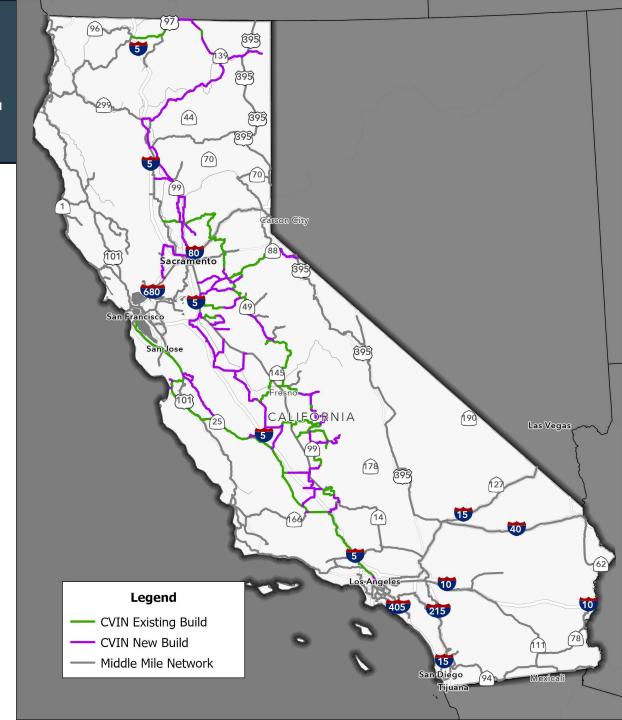


# CDT: Project Updates Installation Partner

#### **CVIN**

IRU/Lease

- Contract Miles: 2,522 Miles Total
   1,182 Miles Existing Build & 1,340 Miles
   New Build
- Preconstruction has progressed from 15% to 65% complete since April 2024
- Estimated Completion: Q4 2026



#### **CDT: Project Updates**

## Government to Government Partnerships



#### YTel

- New Contract
- 48 miles will now be completed through IRU/Lease (IRU: Indefeasible Right of Use)
- Location: Del Norte and Humboldt County



- 5 Tribal Communities
- Ventura County (Joint-Build, 28 miles)
- City of LA Bureau of Street Lighting (Joint-Build, 12 miles)
- City of Fort Bragg (Joint-Build, 5.6 miles)



# Monica Hernández

#### **DEPUTY DIRECTOR**

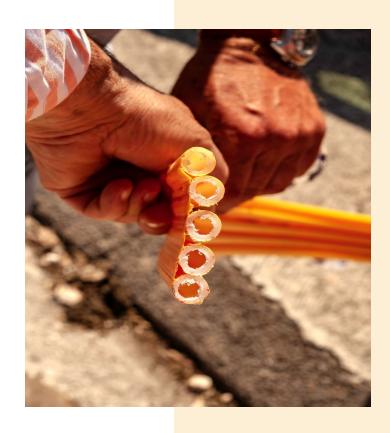
Communications & Stakeholder Relations California Department of Technology

## Middle-Mile Stakeholder Engagement

# Middle-Mile Stakeholder Meeting

## **Objective**

Increase transparency and improve communication for stakeholders within the Middle-Mile Broadband Initiative.



#### Middle-Mile Stakeholder Engagement

# Middle-Mile Stakeholder Meeting

#### May 31, 2024

- 93 Invites
- 60 Registrations
- 60 Attendees



#### **Meeting Summary and Agenda**

- Welcome
- MMBI Development Summary
- MMBI Interactive Map Update
- MMBN Customer Engagement Update
- Adjourn

# **Meeting Evaluation Snapshot**

Totals exclude neutral responses and do not add to 100.

This meeting was well organized.

**75%** 

**25**%

I had an opportunity to express my interests/concerns on the items presented.

**75%** 

0%

The length of the meeting was appropriate to get through the material.

**75%** 

25%

I have a better understanding of the status of MMBI after this meeting.

50%

**25**%

## Middle-Mile Stakeholder Engagement

# Stakeholder Perspectives



#### **Last-Mile Stakeholder Engagement**

# Market Research: A Work in Progress

## **Market Research Customer Survey**



**30+ Interviews & Engagement Forums** 



**Last-Mile Market Report** 

#### **Markets:**

- Local Governments
- Internet Service Providers
- Anchor Institutions





# Jeff Wiley

#### **ASSISTANT DEPUTY DIRECTOR**

Middle-Mile Broadband Initiative California Department of Transportation

# **Path to Delivery**







**Preconstruction Progress** 

Preconstruction Delivery Plan

Project Momentum

## **Advancing Preconstruction**

**Environmental, Permitting and Design progress: June 2024** 

Based on 4,000-mile Caltrans Build

62%

38%

Completed Project Tasks

In Progress Project Tasks

Based on 770-mile Caltrans Build

**65%** 

35%

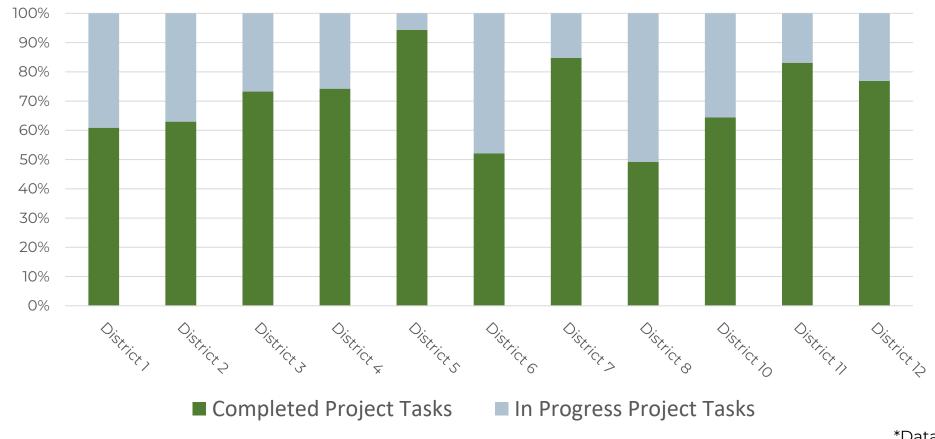
Completed Project Tasks

In Progress Project Tasks

## **Preconstruction Progress by District**

## **Environmental, Permitting and Design progress: June 2024**

Based on 770-mile Caltrans Build



## **Preconstruction Progress: Network Hubs**

## **Caltrans Preconstruction Responsibility:**

112 of 135 Shelter Network Hubs





#### **Caltrans Build**

# Preconstruction Delivery

2024	Preconstructio n complete by March	April – June	July – September	October – December
Region 1	15 miles	50 miles	330 miles	35 miles
Region 2		20 miles	65 miles	125 miles
Region 3			30 miles	
Region 4		10 miles	40 miles	
Region 5		10 miles	35 miles	5 miles
Total	15 miles	90 miles	500 miles	165 miles

\*Data as of 1 July 2024 Rounded numbers based on 770-mile Caltrans Build



#### **Caltrans Build**

# Construction Complete: Mendocino-20









# Erik Hunsinger President & Chief Operating Officer

**GoldenStateNet** 

#### MMBN Services



**Internet** 

Single Homed

Full BGP Peering



**Private Transport** 

Carrier Ethernet

Wavelengths



**Dark Fiber** 

Fiber IRU

Fiber Lease

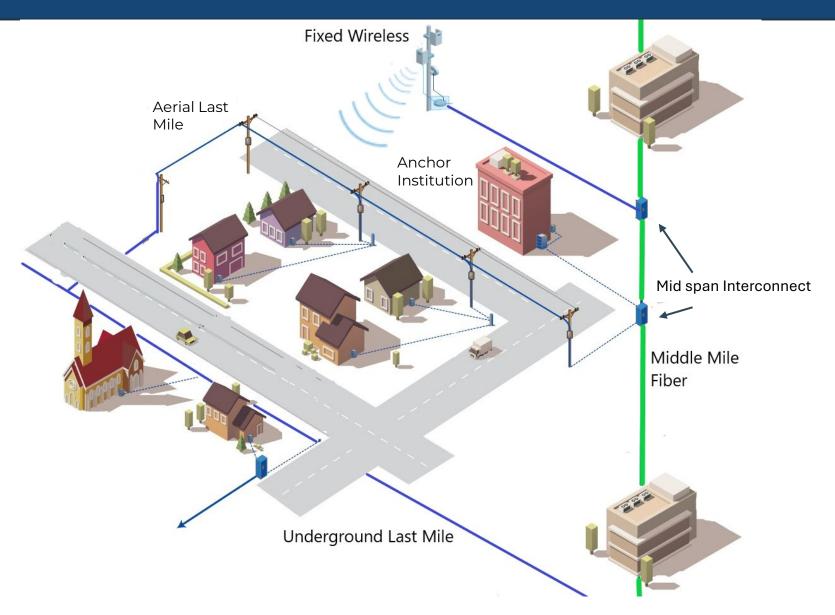


Interconnection

Colocation

Network Interconnections

#### Last-Mile Connections



- Buried Fiber
- Aerial Fiber
- Wireless solutions



Maria Ellis
Deputy Director, Broadband

**California Public Utilities Commission** 

volume 2, applications,

and subgrantee selection.

## Last Mile Broadband Programs and Investments Overview

	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	\$136 million for 2024-25	\$50 million	~\$2 billion
Summary	Funds for planning, infrastructure and adoption starting in 2024.	Funds broadband infrastructure and adoption in low-income housing, Tribal communities, and unserved areas.	Provides collateral to local government, Tribes, and nonprofits to finance their own broadband Infrastructure.	Funds for last-mile broadband infrastructure projects in every county.
What's Next?	Challenge process, NTIA approval of Initial Proposal	Adoption, Public Housing, Line Extension and Tribal	Program updates, awards, and upcoming	Recommendations and

activities.

awards.

**Tech Assistance funding** 

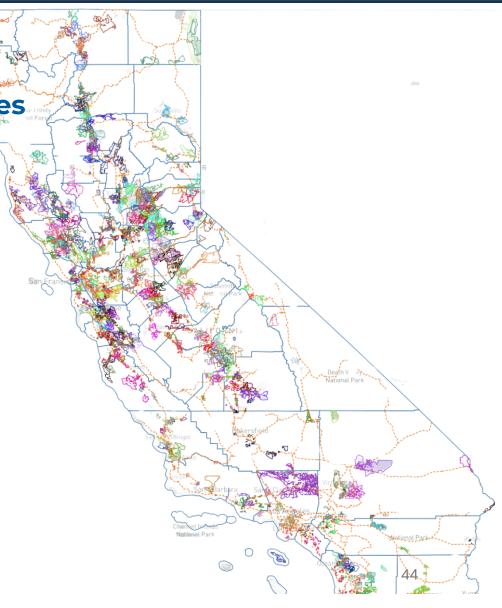
opportunities.

~\$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 county in the state

- Application, Project Area, Objection, Applicant Responses to Objections are publicly available
- Objection Process closed December 20, 2023



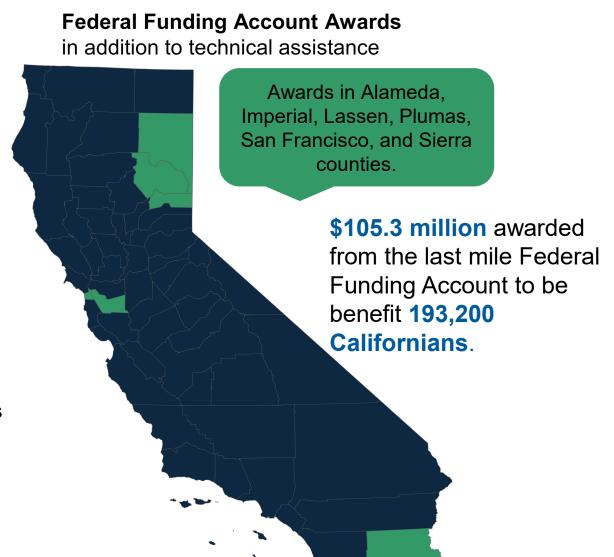
## Federal Funding Account Awards and Recommendations

#### **Grant Awards and Recommendations**

Projects provide end-user service to unserved locations
On-time and strategy is working

#### Program goals—

- Equity
- Affordability
- Open-access middle-mile
- Allocation of projects by county
- What to watch:
  - Propose awards for public comment on a rolling basis (approximately every two weeks)
  - Recommendations by county



#### Federal Funding Account Awards and Recommendations

#### Federal Funding Account Proposed and Final Awards

Proposing \$95.4 million in grants to benefit 247,000 Californians (in orange).

Total proposed and awarded grants of \$200.7 million benefitting 440,000 Californians.



#### 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 letter of credit for the deployment of publicly owned broadband infrastructure.

#### **Update**

\$50 million program budget update Upcoming activities

#### **Timeline**

- First Application Window Closed April 2024
- Awards targeted Q3 Q4 2024



#### California Advanced Services Fund

**Adoption:** Grants for digital literacy and broadband access projects

July 2024 cycle

**Next Application Deadline: January 1, 2025** 

Public Housing: Grants to build networks offering free service to low income communities

July 2024 cycle

**Next Application Deadline: January 1, 2025** 

**Infrastructure:** Grants to subsidize the cost of middle and last mile infrastructure to expand high quality communications service throughout California.

Awarded \$40 million to 3 projects in June

**Tribal Technical Assistance:** Grants to assist California Tribes in developing market studies, feasibilities studies, and/or business plans

Expanded program and increased support for market studies, feasibility studies, and business plans in Decision 24-03-041

April 1, 2024 cycle | 3 Tribal applications | \$750,000

**Next Application Deadline October 1, 2024** 

## California Advanced Services Fund

	January – June 2024		Since 2008	
CASF Account	Total Projects	Total Awarded	Total Projects	Total Awarded
Infrastructure	5	\$46,624,114	100	\$344,621,327
Infrastructure Loan	0	\$0	1	\$40,997
Line Extension Program	0	\$0	4	\$2,071,101
Tribal Technical Assistance	10	\$1,791,800	77	\$7,611,550
Consortia	0	\$0	62	\$29,063,202
Adoption	51	\$6,155,822	454	\$46,788,426
Public Housing	13	\$931,092	508	\$17,872,736
Total:	79	\$55,502,828	1,206	\$448,069,339

## Broadband Equity, Access, and Deployment (BEAD) Update

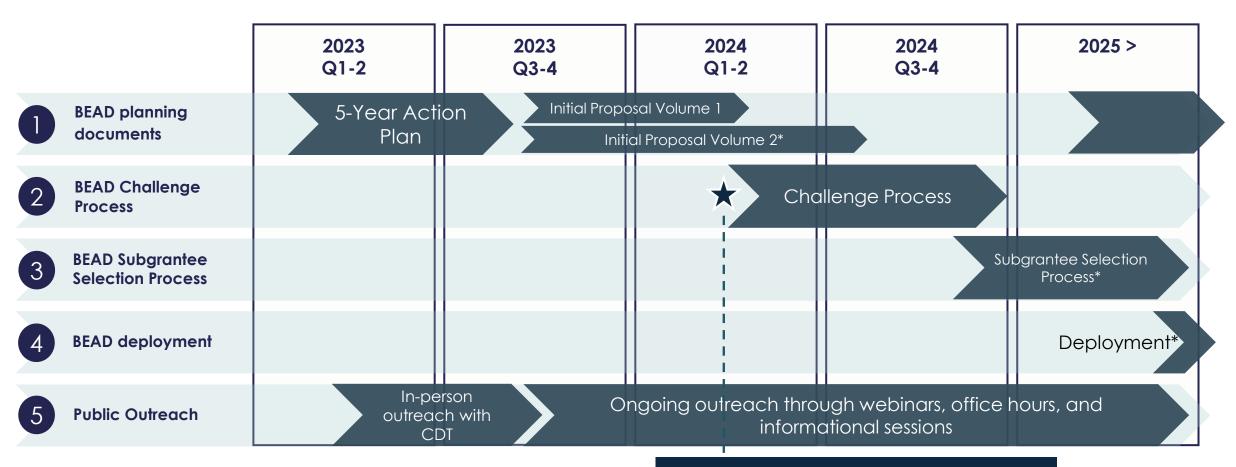
# In June 2023, \$1.86 billion was allocated to California to deploy last-mile service to unserved and underserved

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

- Five Year Action Plan accepted by National Telecommunications and Information Administration (NTIA)
- Submission Initial Proposal Volumes 1 & 2 to NTIA
  - o 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



## Broadband Equity, Access, and Deployment (BEAD) Update



We are here: Challenge Process
Jul 8 – Aug 6, 2024

# **Purpose**



#### What is the BEAD Challenge Process?

- Will determine locations and community anchor institutions within the state that are eligible for BEAD funding
- Allows entities the opportunity to offer input on whether specific locations are not accurately reported in the datasets and therefore should be eligible for BEAD funding
- If a location is not shown as BEAD eligible after the Challenge Process, it will not be able to gain BEAD funding

Note: Challengers will not be able to add or delete broadband serviceable locations (BSLs)

## Broadband Equity, Access, and Deployment (BEAD) Update

#### California's BEAD Challenge Process

#### **PUBLICATION OF** CHALLENGE **EVIDENTIARY** REBUTTAL FINAL SUBMIT RESULTS NTIA APPROVAL\* **ELIGIBLE LOCATIONS** PHASE PHASE DETERMINATION TO NTIA **REVIEW** Makes publicly NTIA reviews Permissible CPUC review of Challenged Review and **CPUC** submits its available. challenge results service providers determination challengers may challenges for challenge results Map of Eligible and determines Locations submit a minimum level of may provide process for and final whether to Website for eligibility challenge via the evidence to be counterdisputed members of the approve or Challenge Portal valid and evidence for challenges determinations public reverse the subject to challenged to NTIA Data sets CPUC's rebuttal locations Start: July 8 Unserved determinations End: August 6 Underserved **Start:** September 20 Start: August 21 Start: August 7 Served End: October 19 End: September 19 End: August 20 • CAIs 30 calendar days June 17, 2024 14 calendar days 30 calendar days 30 calendar days November 4, 2024 **December 18, 2024** 120 days

# **PUBLIC COMMENTS**

#### Sign up:

Broadband for All Newsletter





Next MMAC Meeting
Friday, October 18, 2024
10:00 – 11:30 a.m.

MiddleMile@state.ca.gov

# **THANK YOU!**

#### Sign up:

Broadband for All Newsletter





Next MMAC Meeting
Friday, October 18, 2024
10:00 – 11:30 a.m.

MiddleMile@state.ca.gov