



Middle-Mile Advisory Committee Meeting

July 18, 2025



Broadband for All



Agenda

Welcome & Introduction

Executive Report

CDT: Project Updates

Caltrans: Project Updates

GoldenStateNet: Project Updates

CPUC: Last-Mile Updates

Public Comments

Next Meeting Date and Adjourn



Mark Monroe

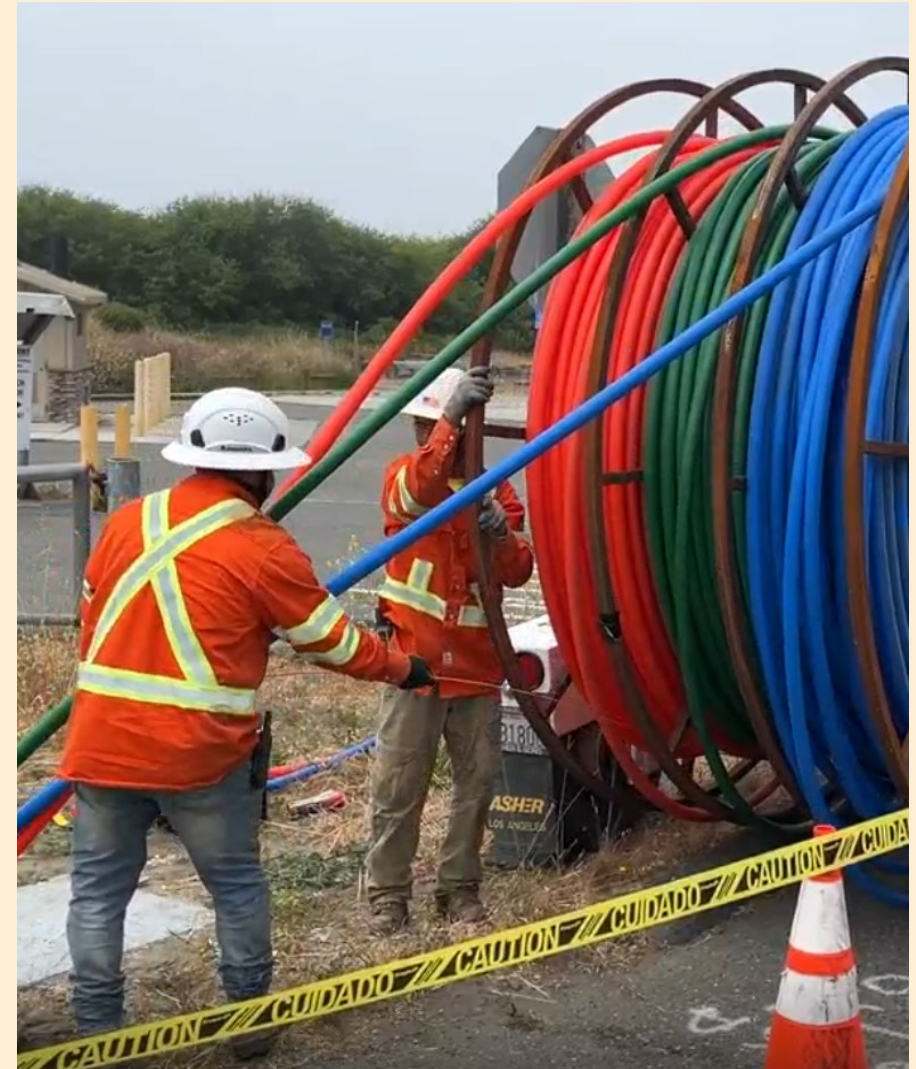
DEPUTY DIRECTOR

Middle-Mile Broadband Initiative
California Department of Technology

Executive Report

High Level Project Progress

- New or Expanding Partnerships
- May MMAC Summary
- Operations Update
- Early Marketing & Sales Update



CDT: Project Update

New or Expanded Partnerships

City of Fort Bragg
(Joint-Build 4 miles)

American Dark Fiber
(128 Huts)



CDT: Project Update

May Ad Hoc MMAC Summary



AGENDA

CDT: Project Status

Caltrans: Permitting Process

Efficiency Updates

MMBI Partner Updates

Milestones & Groundbreakings

CDT: Project Update

May MMAC: Partner Participants

American Dark Fiber

Arcadian

Central Valley Independent Network

Hoopa Valley Public Utilities District

Los Angeles Bureau of Street Lighting

Siskiyou Telephone

Yurok Telecommunications



CDT: Project Update

Permit Process Improvements

**All Joint-Build
Partners
Submitted ALL
Permit
Applications
into Caltrans
System**

**Caltrans and
CDT Working
with Partners
to Identify
Priority
Segments
Across Districts**

**CDT and
Caltrans
Working with
Partners to
Create
Standardized
Processes**



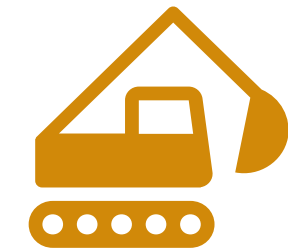
Mackenzie Shea

Regional Business Manager

Middle-Mile Broadband Initiative
California Department of Technology

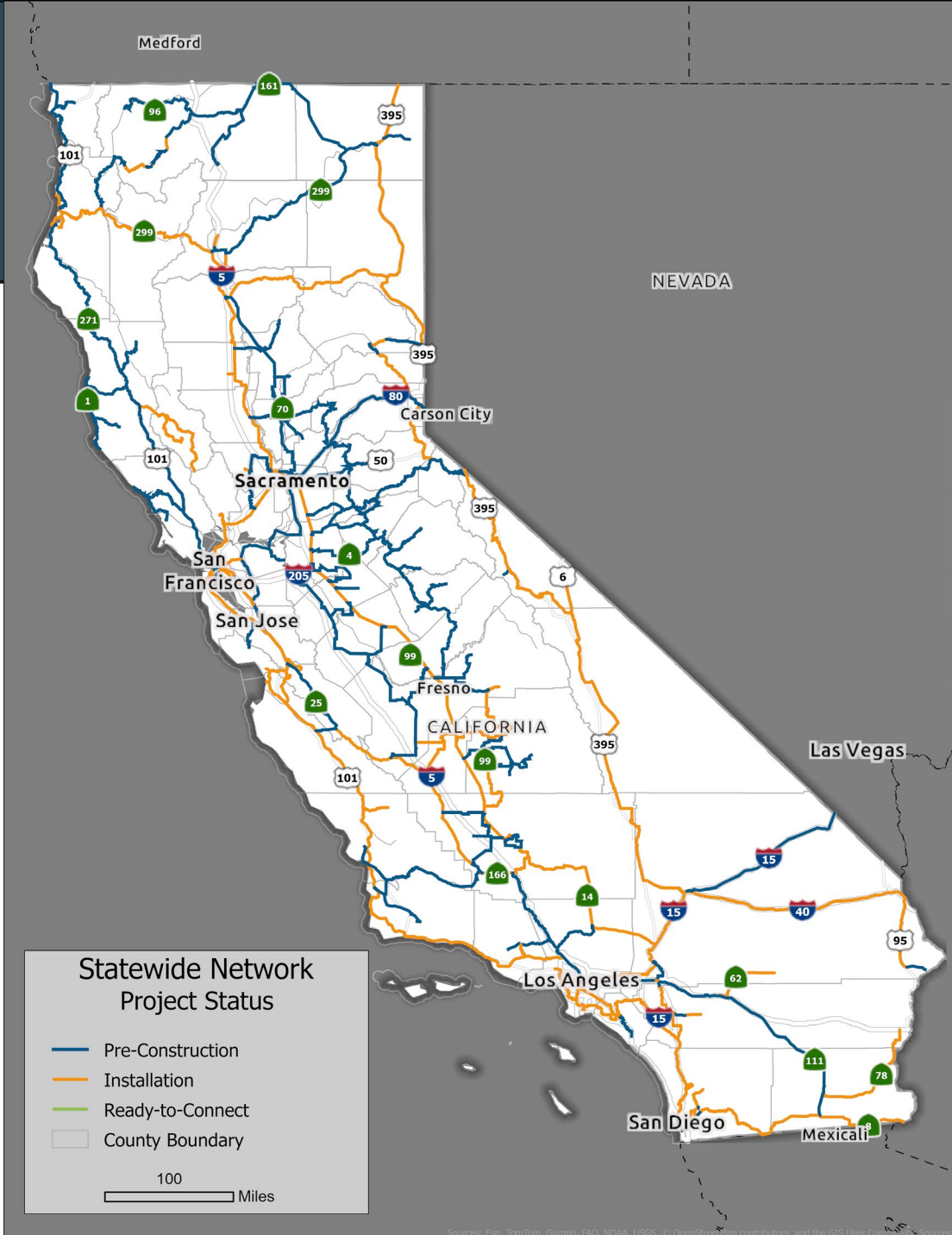
CDT: Project Update

Installation Map



Installation

- **3,961 Miles Actively Being Installed**
- Construction, Trenching/Boring
- Fiber Pulls and Testing



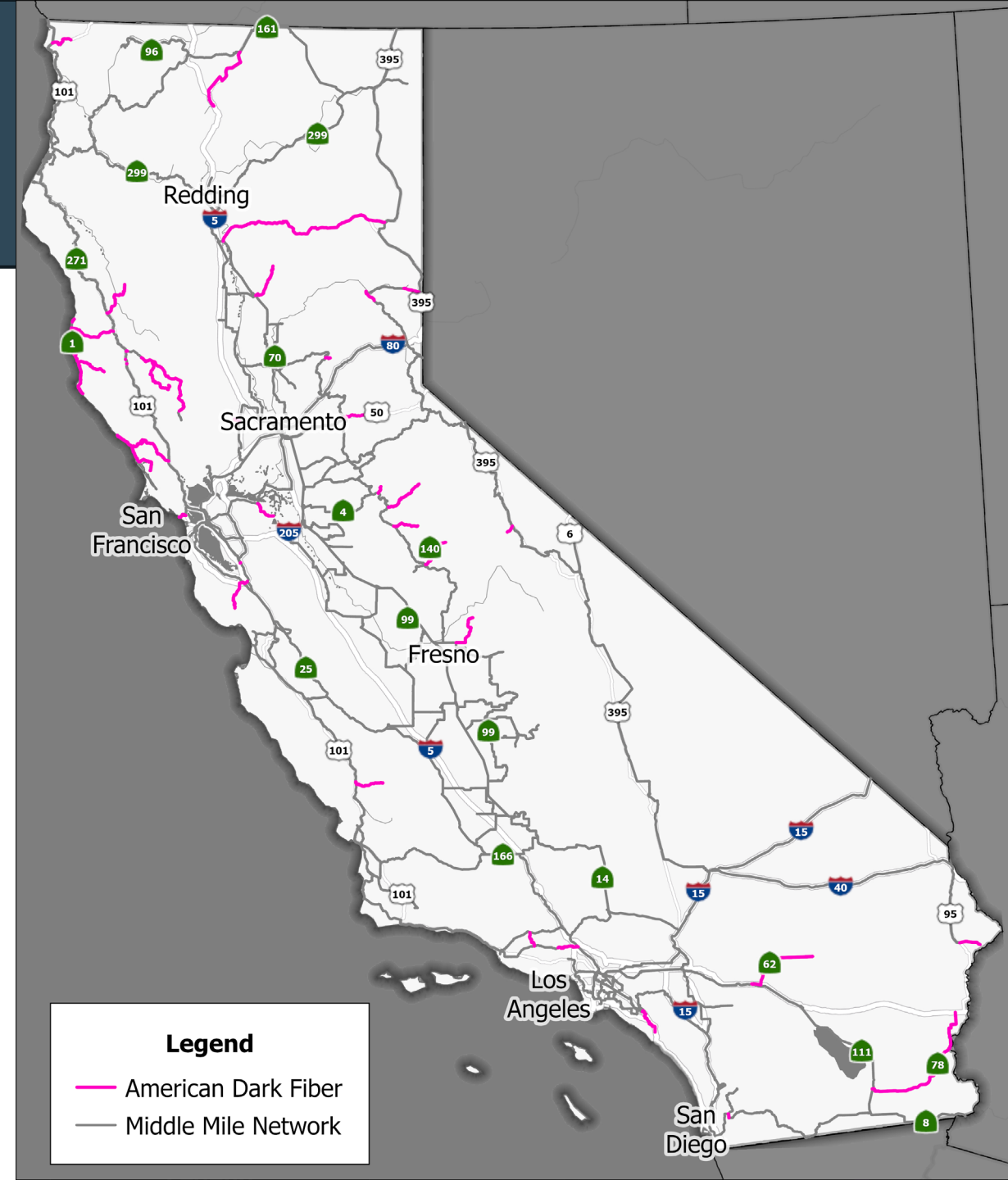
CDT: Project Update

Installation Partner

American Dark Fiber

Joint Build

- **901 Miles**
- Construction in progress on 9 of 34 segments.



CDT: Project Update

Installation Partner

Arcadian Joint-Build

- **1,004 Miles**
- Design and engineering has progressed from 90% (900 miles) to 95% complete (Approximately 950 miles)
- Estimated Completion: Q4 2026



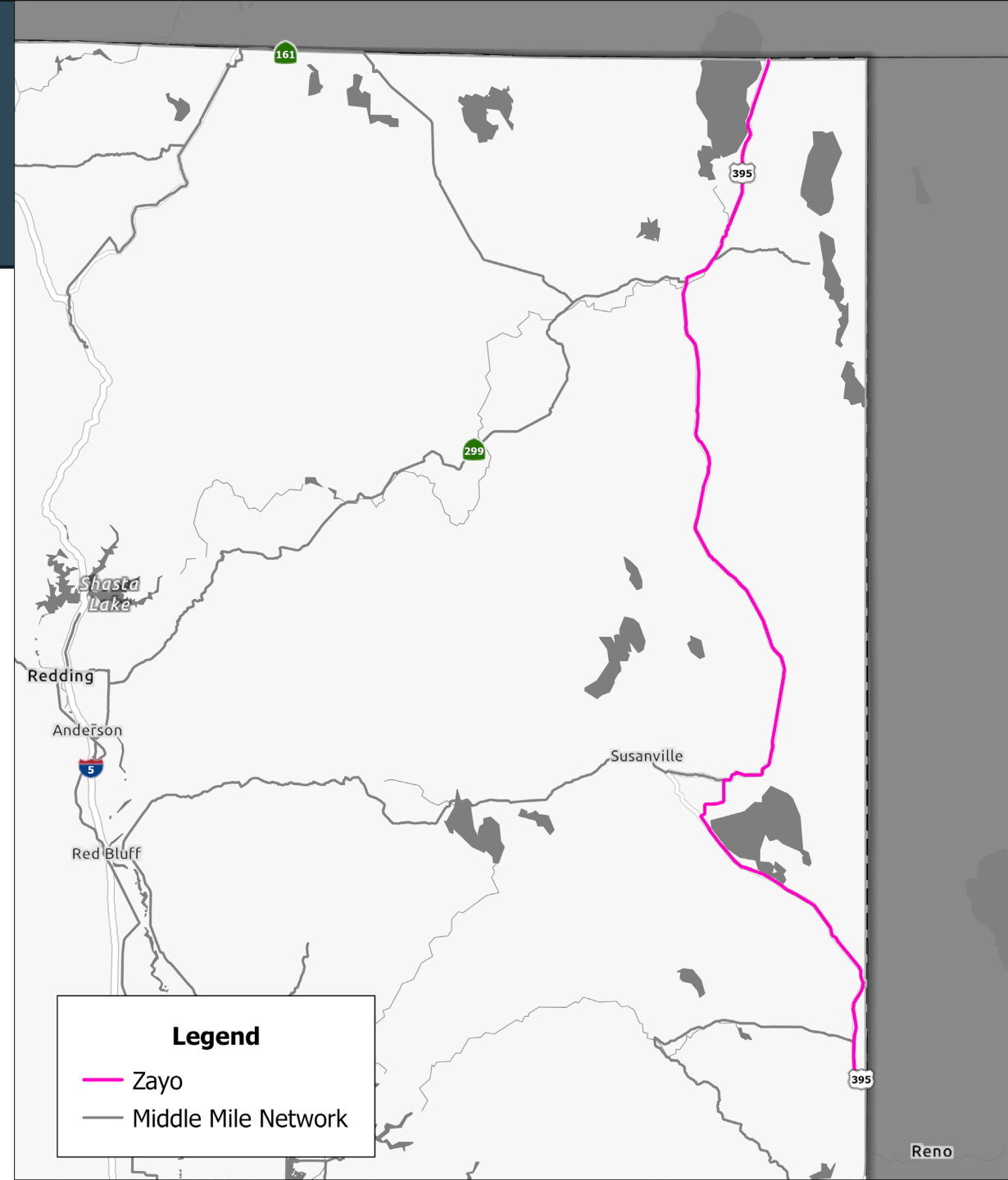
CDT: Project Update

Installation Partner

Zayo

Joint Build

- **194 Miles**
- Installation progress is at 96% (~186 miles) complete for conduit and 22% (~34 miles) for fiber with estimated completion in Q3 2025.



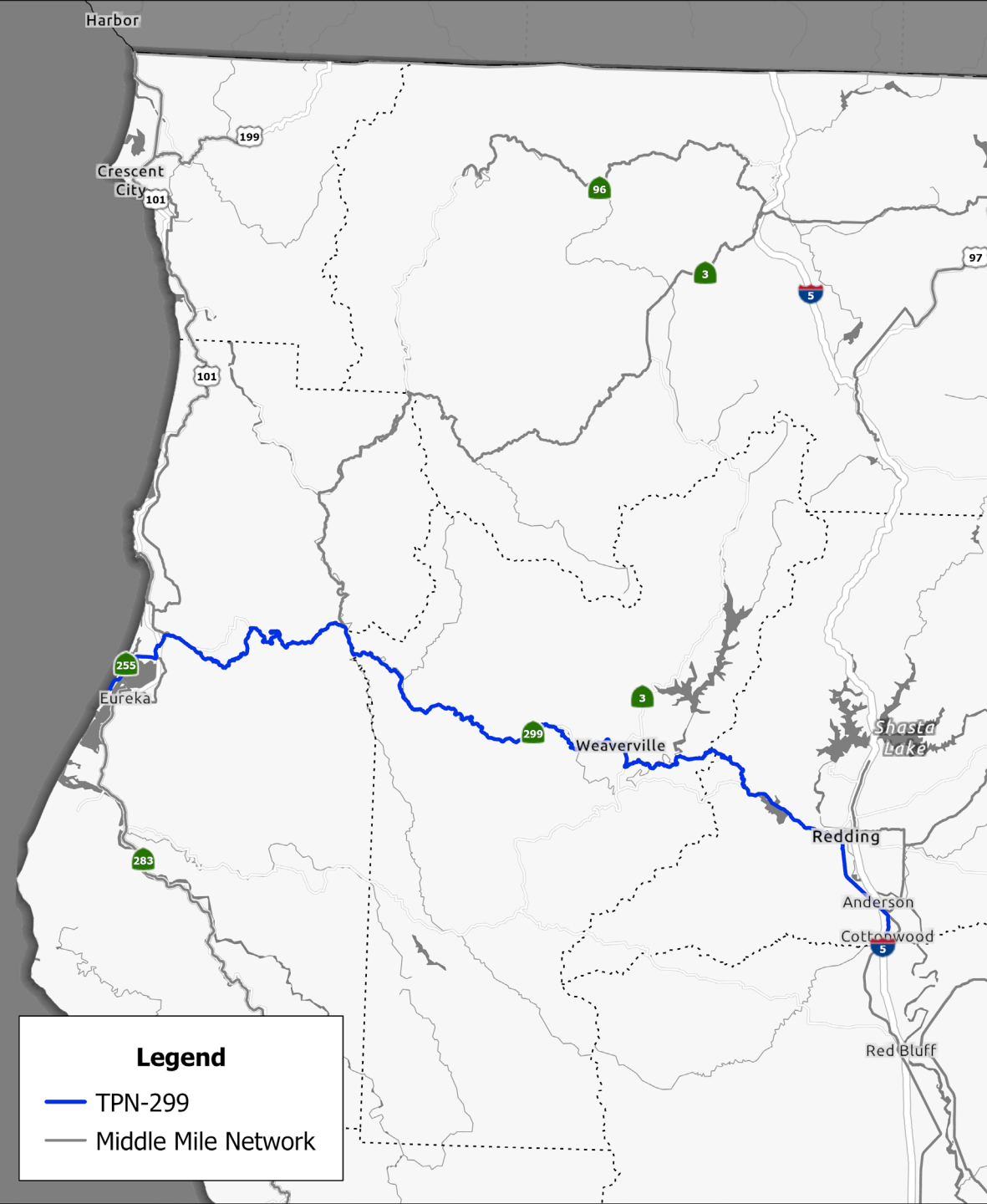
CDT: Project Update

Installation Partner

TPN-299

IRU/Lease

- **171 Miles**
- Completed May 19, 2025



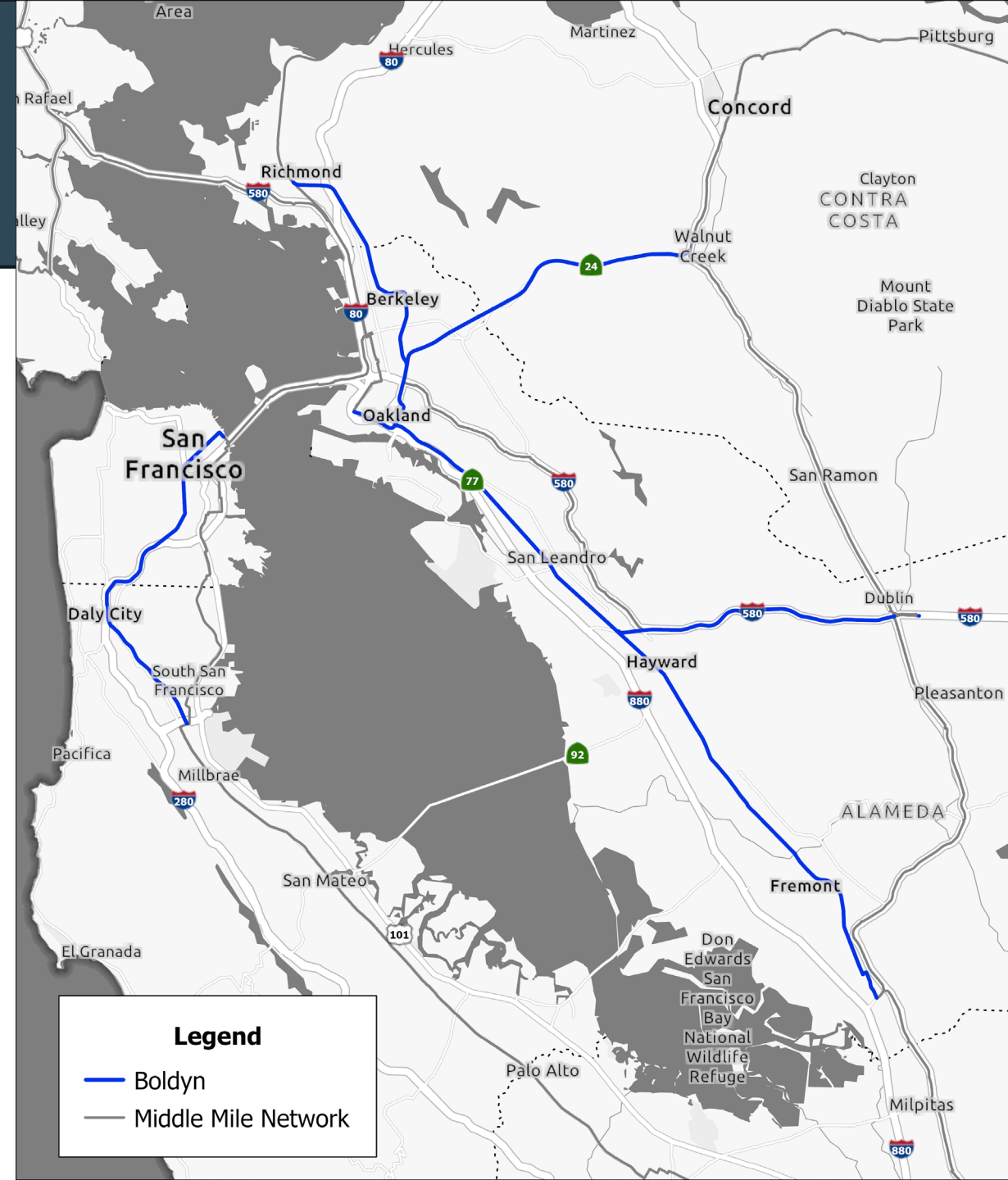
CDT: Project Update

Installation Partner

Boldyn

IRU/Lease

- **81 Miles**
- Completed: June 30, 2025



CDT: Project Update

Installation Partner

Lumen

Joint-Build & IRU/Lease - 1,880 Miles

- **IRU/Lease 699 miles**
- **Joint-Build 1181 miles**
- Installation Complete on 8 segments
- Installation in progress on 7 segments
- Estimated Completion: Q3 2026



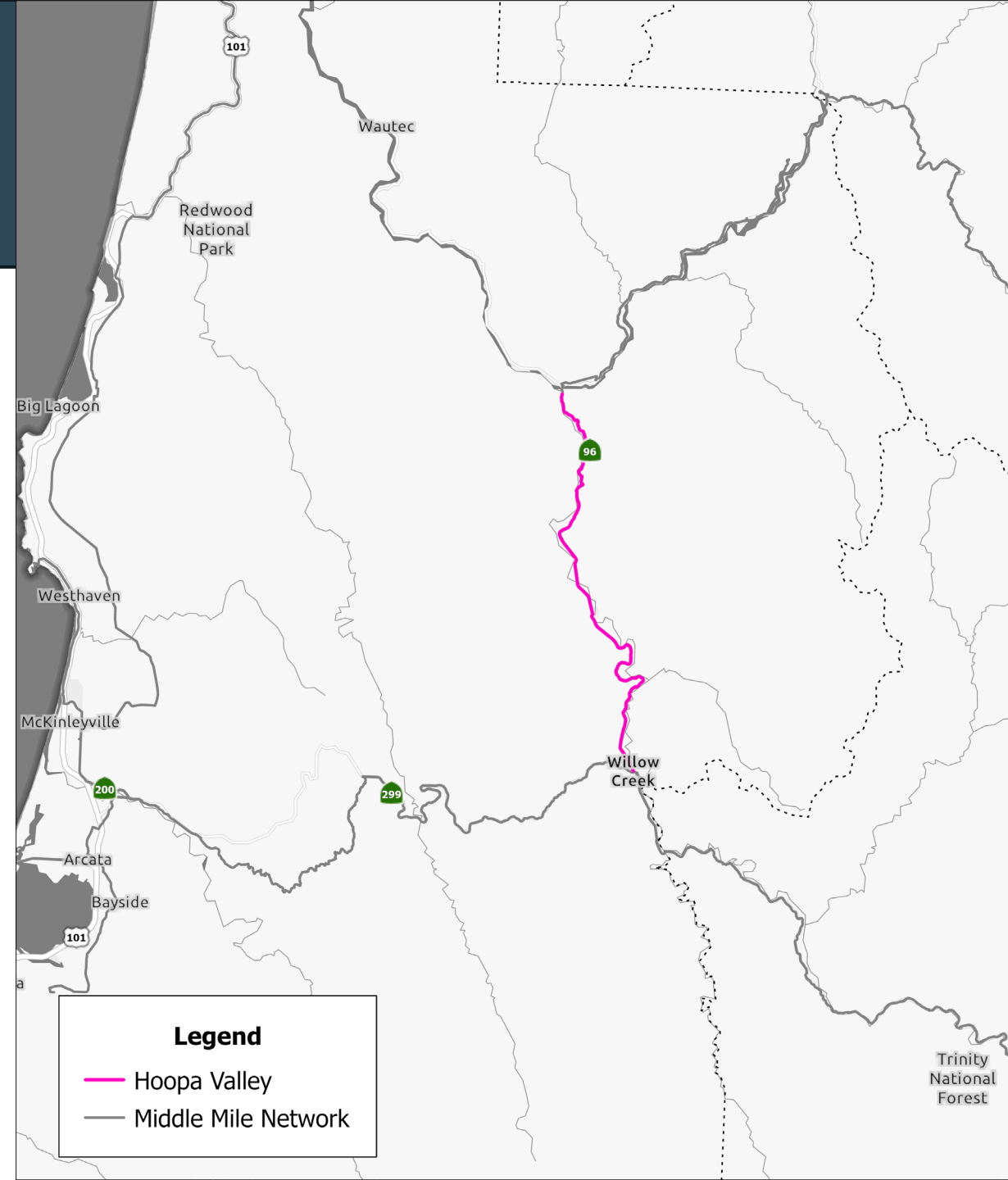
CDT: Project Update

Installation Partner

Hoopa Valley

Joint-Build

- **22 Miles**
- Required permits obtained
- Installation started with estimated Completion in Q4 2026.



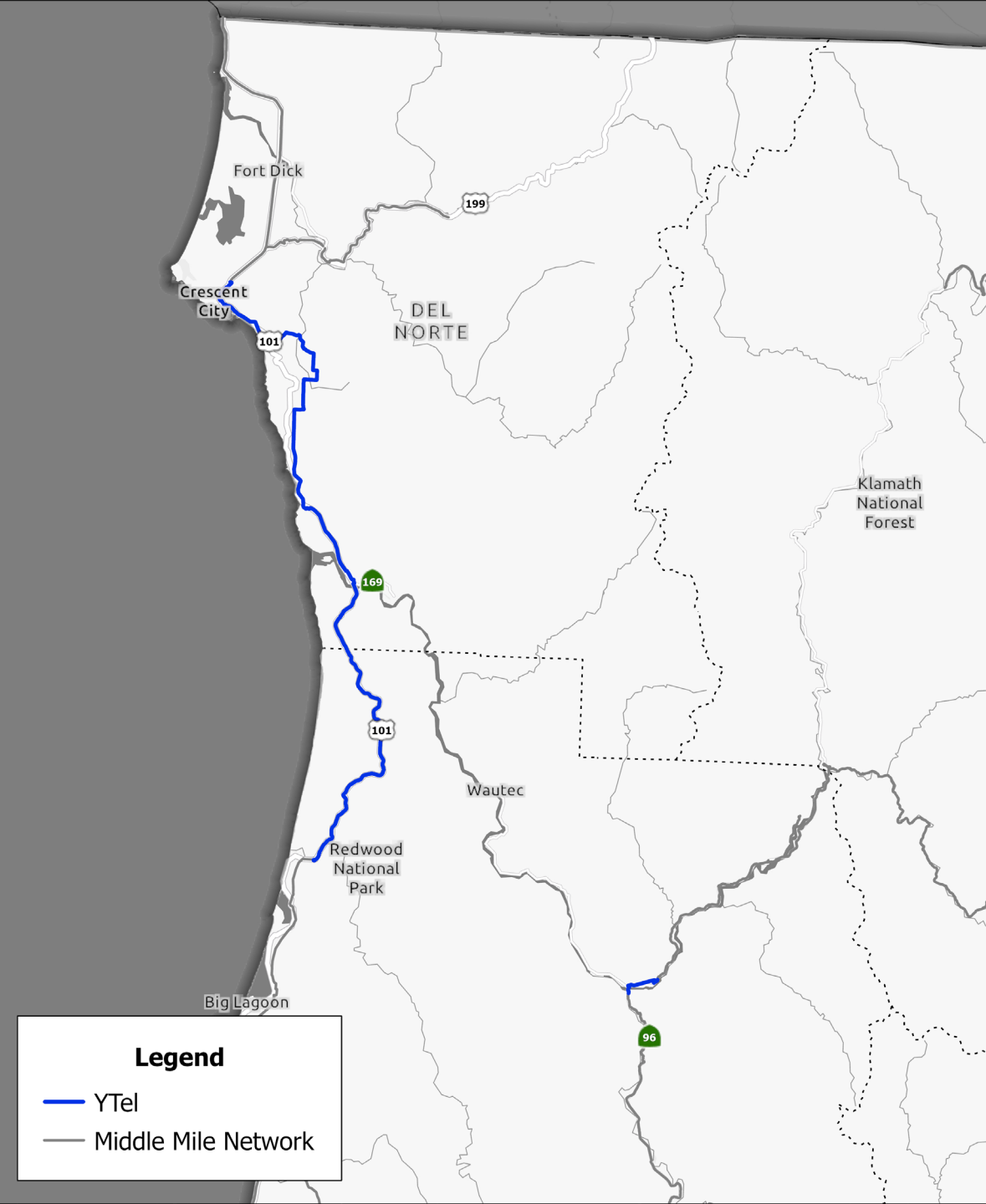
CDT: Project Update

Installation Partner

YTel

IRU/Lease

- **51 Miles**
- Preconstruction activities are ongoing
- Installation started on a portion of the build
- The remaining segments are planned to start in Q4 2025 and complete by Q4 2026.



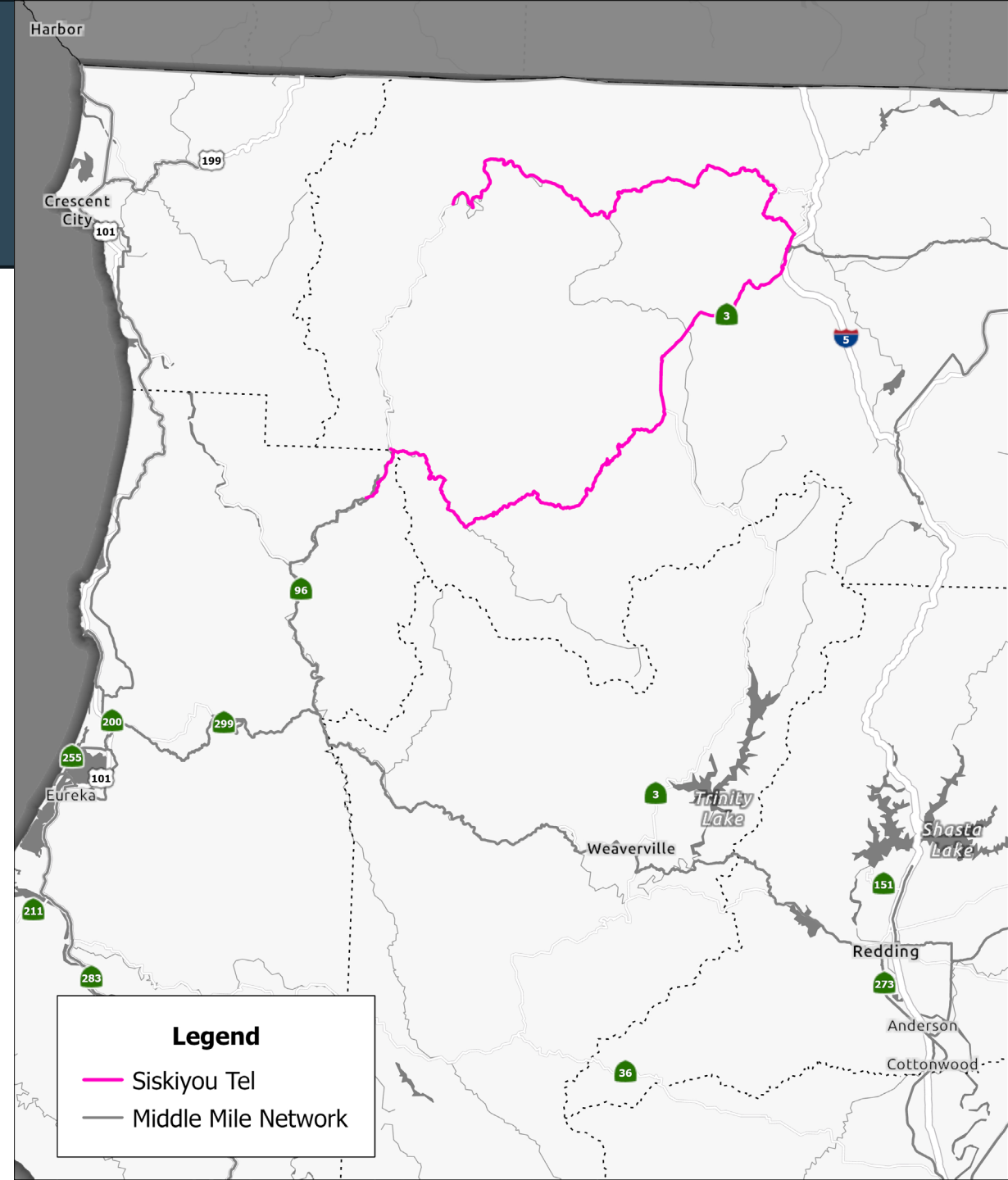
CDT: Project Update

Installation Partner

Siskiyou Tel

Joint-Build

- **164 Miles**
- Installation started on the existing infrastructure
- New build sections scheduled for installation in Fall of this year
- The Estimated Completion for all builds is Q4 2026.



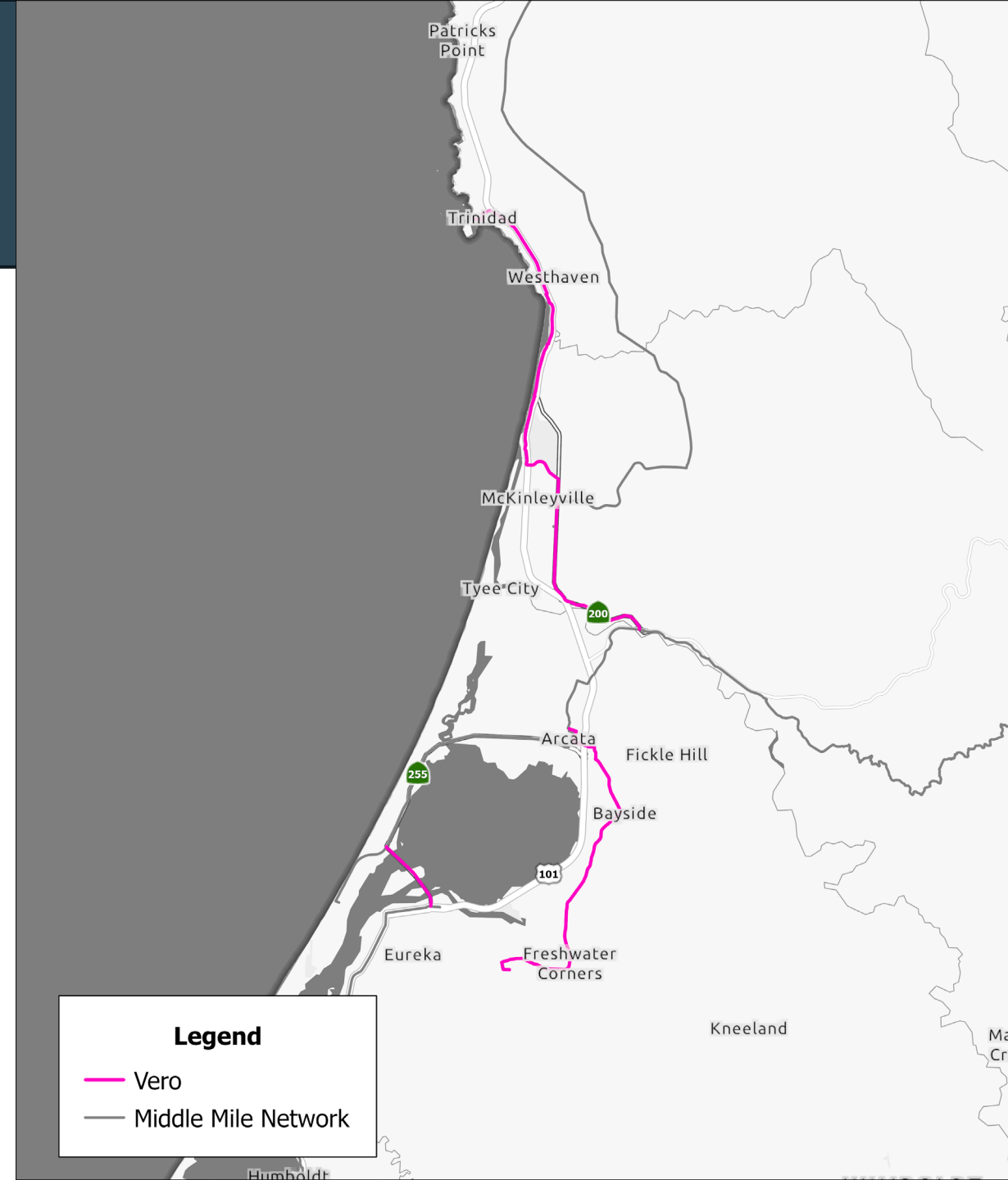
CDT: Project Update

Installation Partner

Vero

Joint-Build

- **26 Miles**
- Design and Engineering is 100% complete
- Ongoing Installation Progress
- Estimated Completion: Q2 2026



CDT: Project Update

Installation Partner

CVIN

IRU/Lease

- **2,672 Miles**
- Design and Engineering is 95% complete
- Installation has been initiated in various areas of the state for 34 of the 91 assigned segments



CDT: Project Update

Installation Partner

Digital 395

Purchase

- **423 Miles**
- Purchase Complete October 31, 2024
- Licenses, deeds, and permits transfer nearing 72% complete
- Hub preparation for MMBI electronics nearing 50% complete
- Estimated Completion: Q4 2025



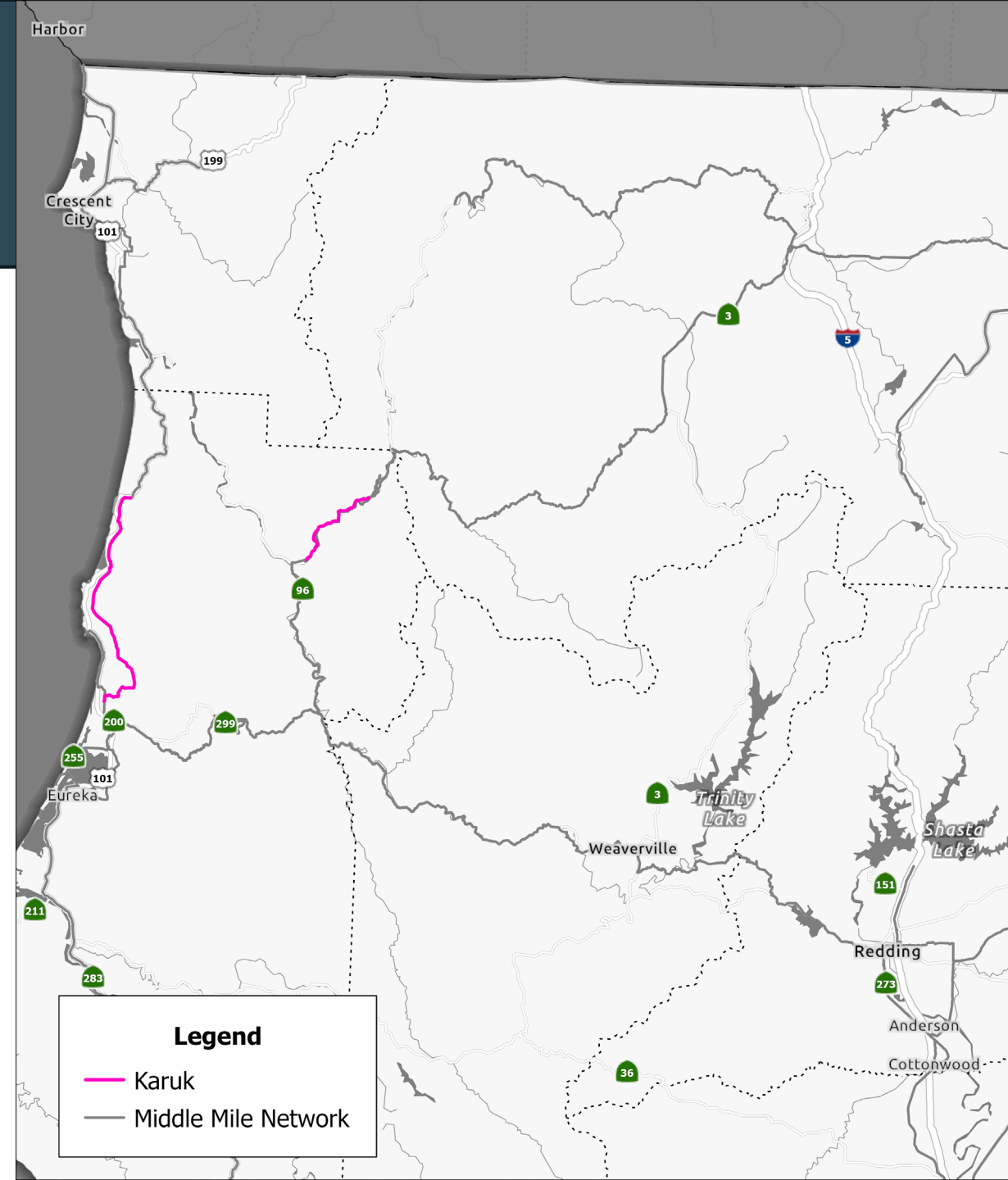
CDT: Project Update

Installation Partner

Karuk

Joint-Build

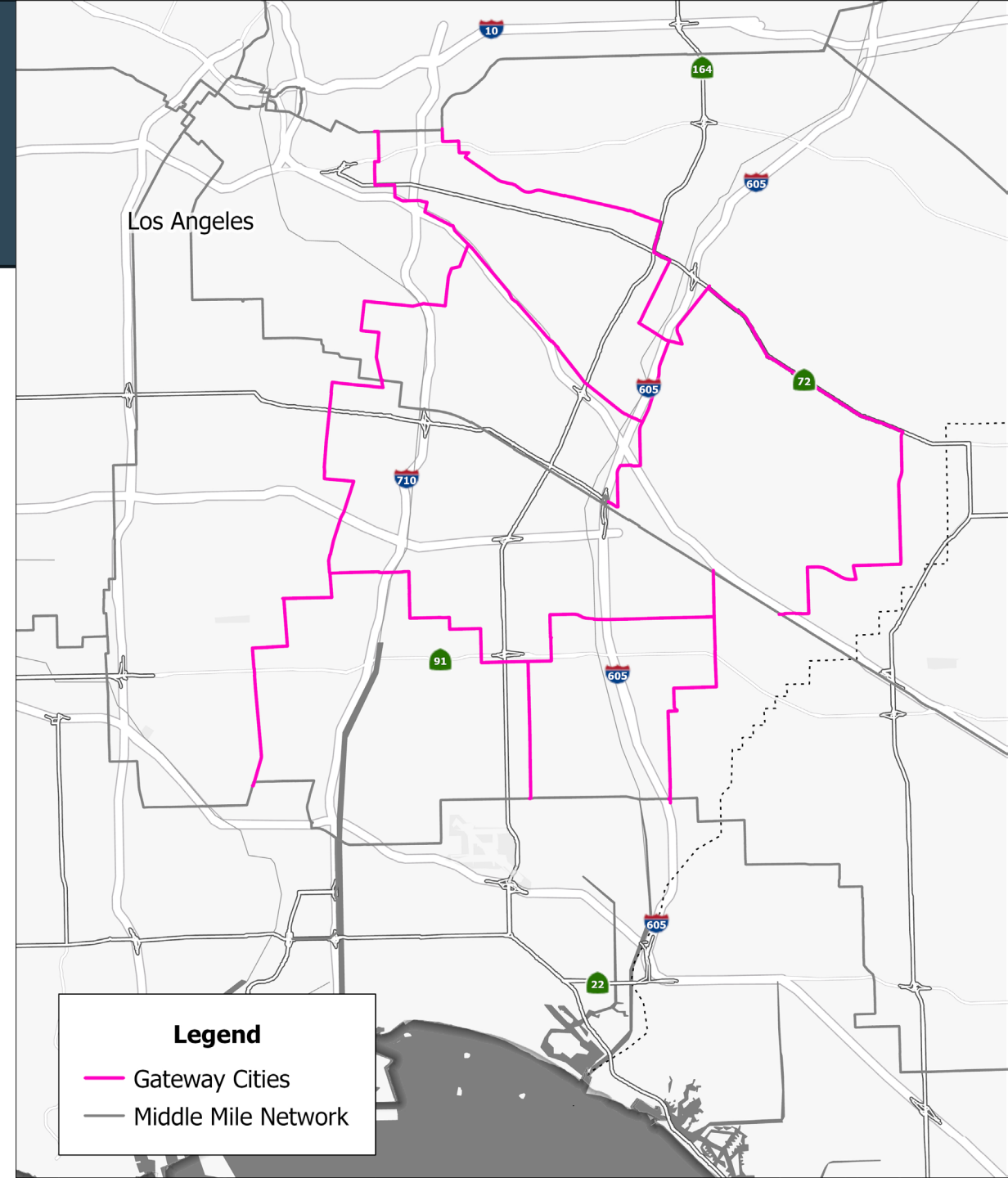
- **46 Miles**
- Preconstruction is underway and planned to start installation in Q4 2025
- Estimated completion in Q4 2026.



Installation Partner

Joint-Build

- **74 Miles**
- Signed agreement: January 2025
- Project kick-off: February 2025
- Design and engineering: 95% complete and pending City reviews



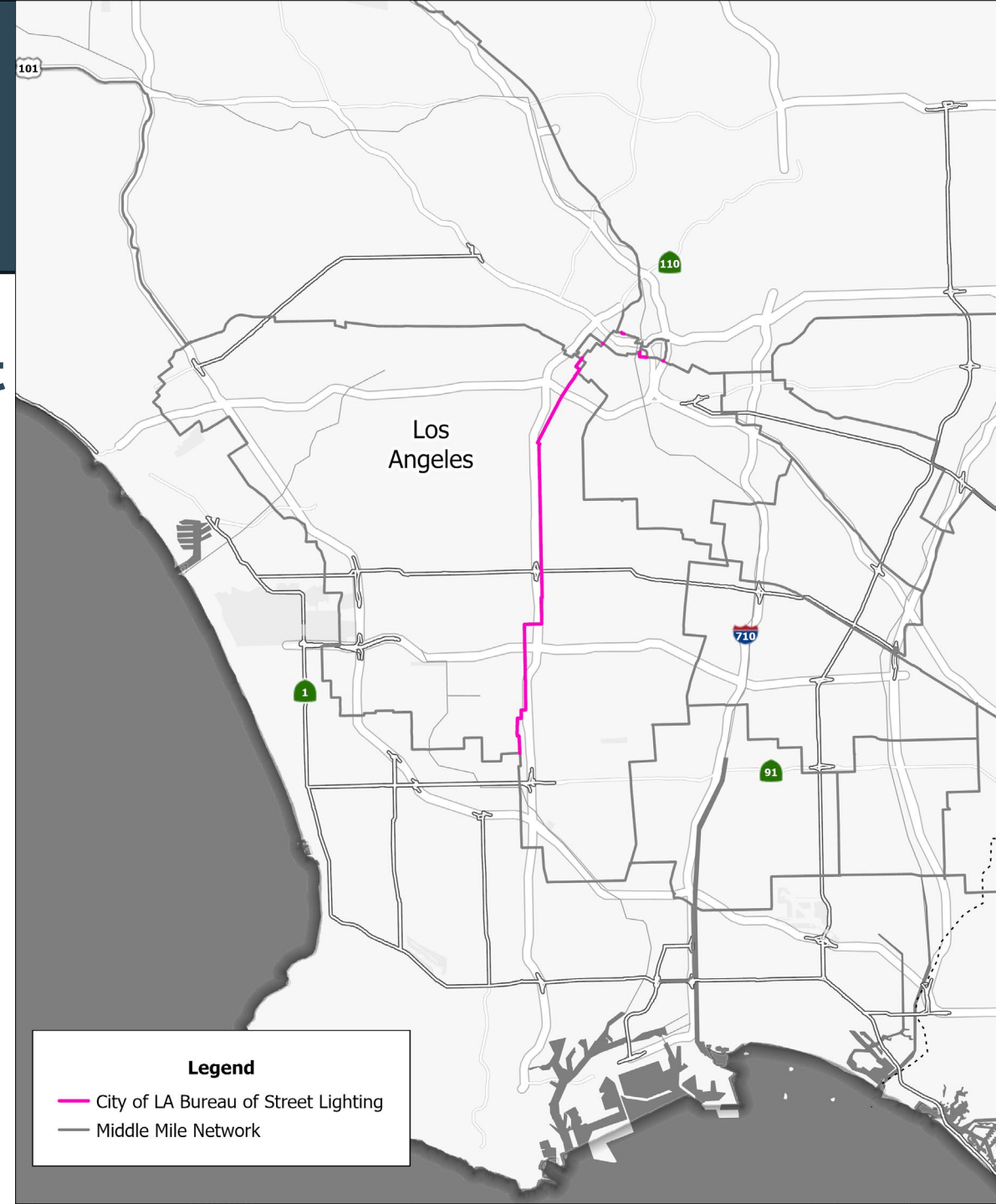
CDT: Project Update

Installation Partner

City of Los Angeles Bureau of Street Lighting

Joint-Build

- **13 Miles**
- Signed agreement: February 2025
- Construction started April 2025



Government-to-Government Partnerships



Signed

Joint Builds and Leases

- City of Fort Bragg (4 miles)



Negotiating

Joint Builds and Land Leases for Hubs

- 3 Tribal Communities (3 hub leases)
- Various municipalities ~ 16

CDT: Project Update

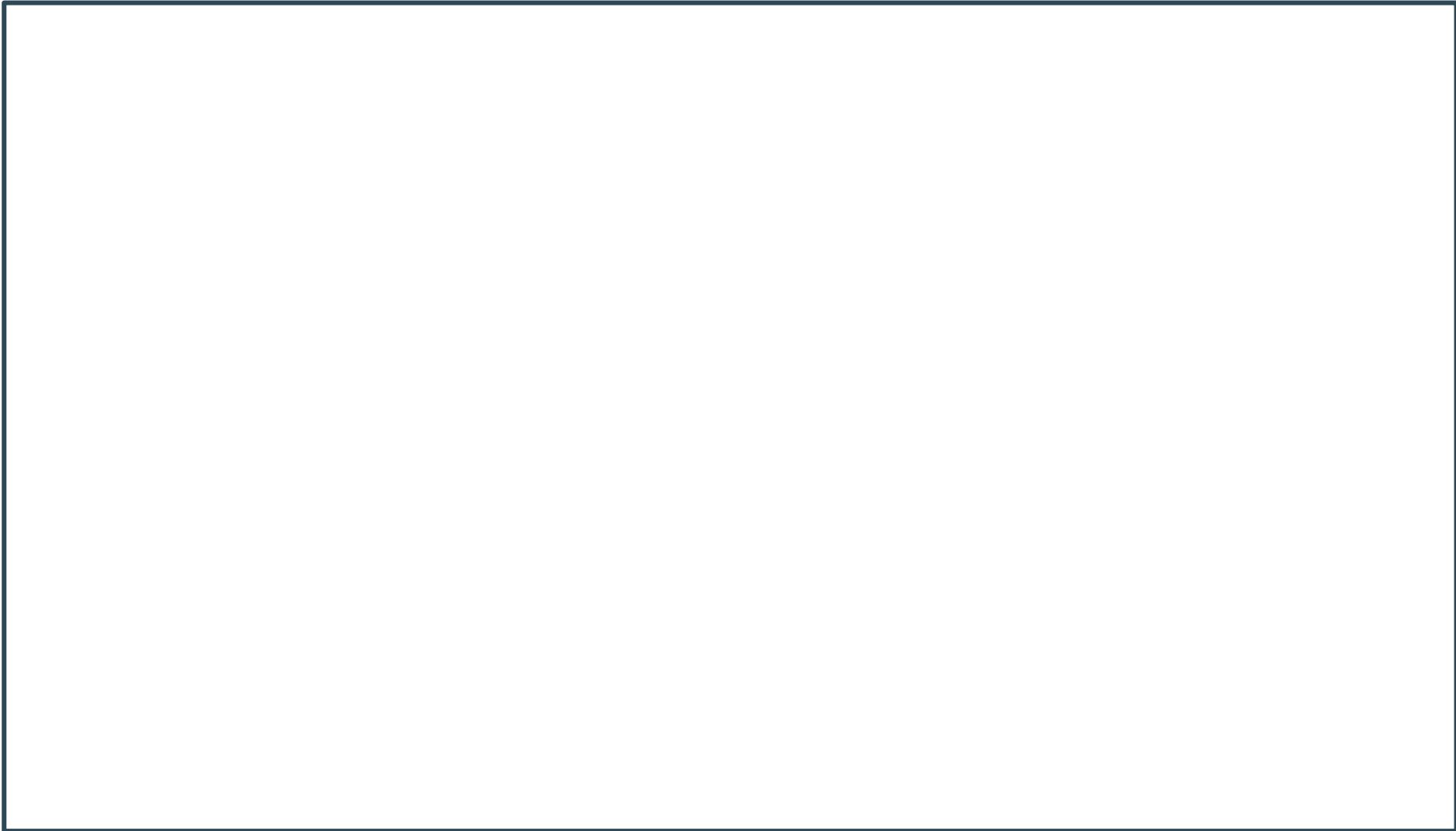
MMBN Today

- **3,961 Miles in Installation**
 - Construction In Progress
 - Construction Completed



CDT: Project Update

MMBN Operational Timeline Video



CDT: Project Update

MMBN Operational Timeline

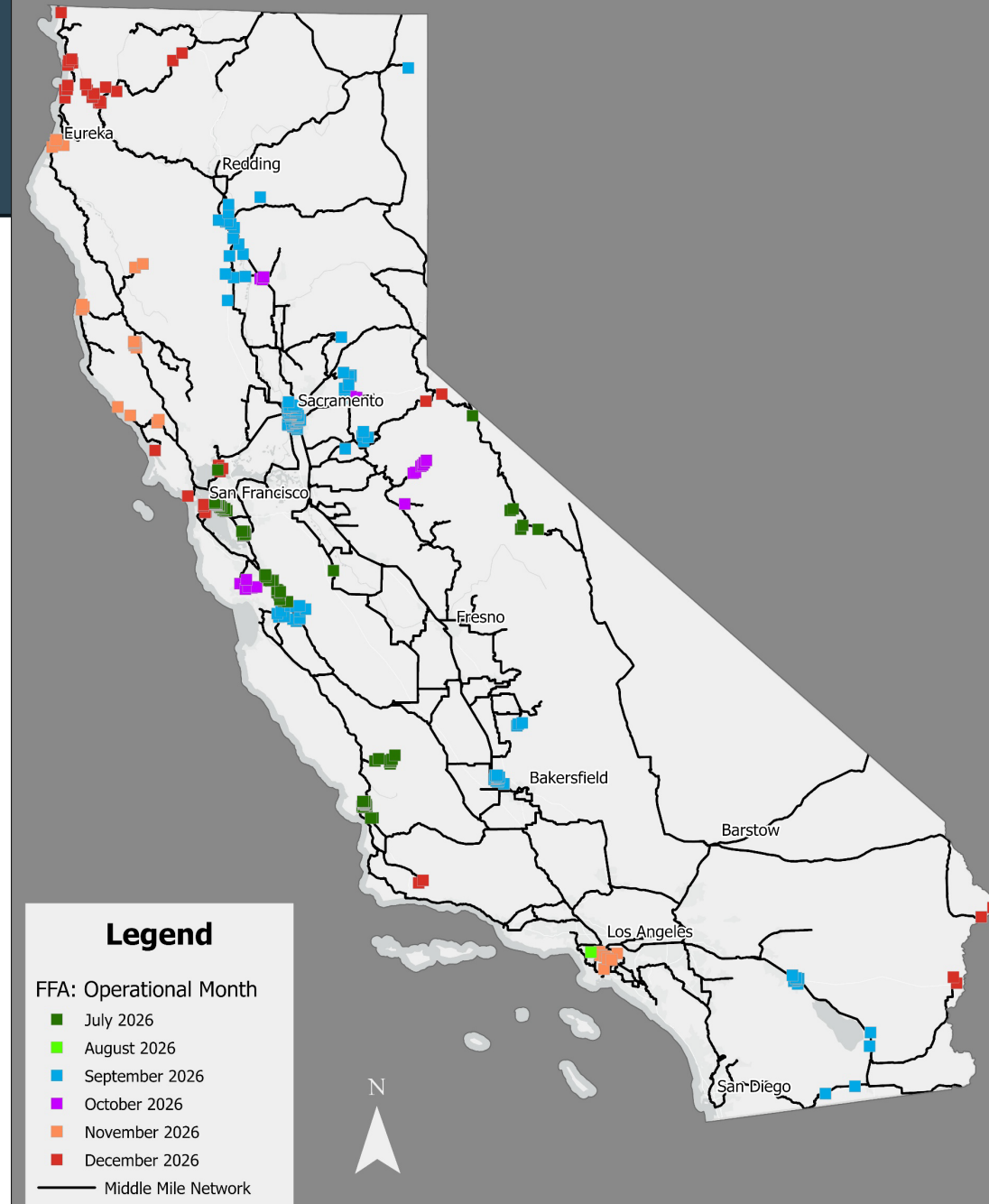


CDT: Project Update

MMBN and FFA Timeline

MMBN Customer Solutions team continues to meet with FFA grantees on coordination with MMBN and their last mile projects

- 59 FFA Projects that intend to connect to MMBN
- Establishing interconnection locations and services
- Identifying FFA's timeline in relation to MMBN's operational timeline





Robert Payne

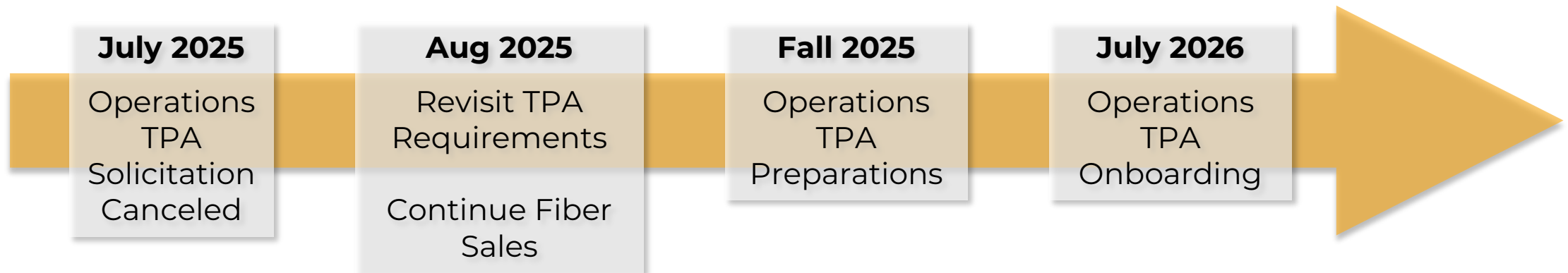
Program Director

Middle-Mile Broadband Initiative
California Department of Technology

Operations Look Ahead

Middle-Mile Broadband Network Operator Key Functions

- 24/7/365 network monitoring
- Provision customer services
- Network engineering
- Incident/problem resolution
- Maintain electronics
- Maintain fiber and huts

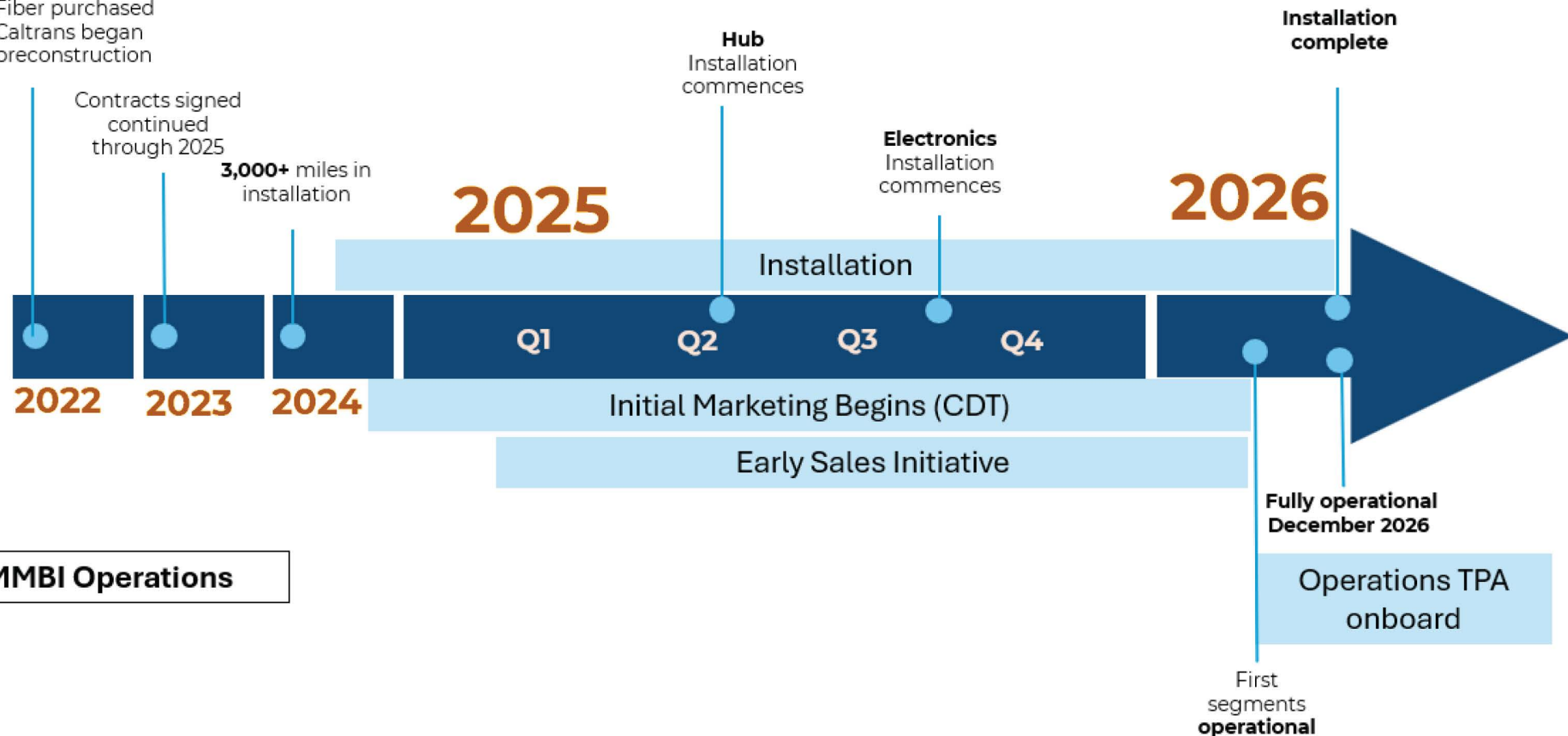


CDT: Project Update

Operations Look Ahead

MMBI Development

- Network designed
- Fiber purchased
- Caltrans began preconstruction



MMBI Operations



Monica Hernández

DEPUTY DIRECTOR

Communications & Stakeholder Relations
California Department of Technology

CDT: Project Update

2025 MMBI Stakeholder Engagement Schedule

Virtual Meetings

10:00-11:00 a.m.

~~Friday, January 31~~

~~Friday, May 2~~

Friday, August 1

Friday, October 31



May Meeting Summary

May 2 , 2025

- 107** Invites
- 44** Registrations
- 35** Attendees
- 4** Evaluation Responses











Orick, California



Samoa, California







CDT Project Update

Upcoming Milestone Events

August 12, 2025 | Hoopa Valley

Hoopa Valley Tribe

22 mile joint-build

TBD | Chumash Lands

Santa Ynez Band of Chumash
Indians

2 mile joint-build





Elias Karam

ASSISTANT DEPUTY DIRECTOR

Middle-Mile Broadband Initiative
California Department of Transportation

Caltrans Update



Caltrans Build



**Partner Builds:
Encroachment Permits**

Caltrans Update



Caltrans Build



Partner Builds:
Encroachment Permits



Caltrans Build

Fiber Miles

Construction Status Based on **305-mile** Caltrans Build

Ready to Construct	305 miles
In Construction	199 miles
Dig Smart Opportunities	18 miles
Construction Complete	88 miles

*Data as of 06/27/2025

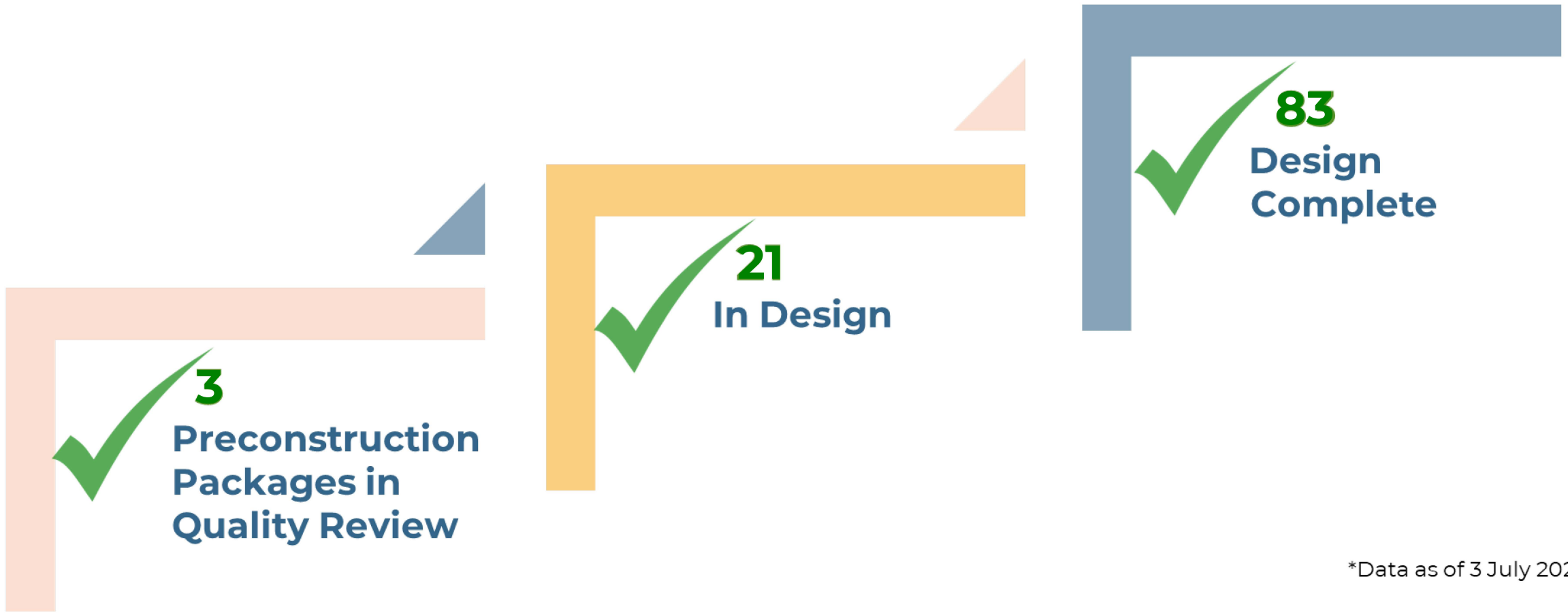




Caltrans Build

Network Hubs

Caltrans Responsibility: Design of **107** Shelter Network Hubs



*Data as of 3 July 2025



Encroachment Permit Clarifications



Requirements in Construction

- Resident Engineer
- Land Surveyor / 3-D As-Builts
- Stormwater



Annual Maintenance Permit Allowances

- Pull Boxes
- Aerial Installation



Janice Benton

Deputy Director

Maintenance & Operations
California Department of Transportation

Caltrans Update



Caltrans Build



**Partner Builds:
Encroachment Permits**



Partner Builds: Caltrans Encroachment Permits

MMBN Encroachment Permits Status

**CDT Partners Submitted Applications for
2,785 miles (of a total estimated 3,497 miles)**



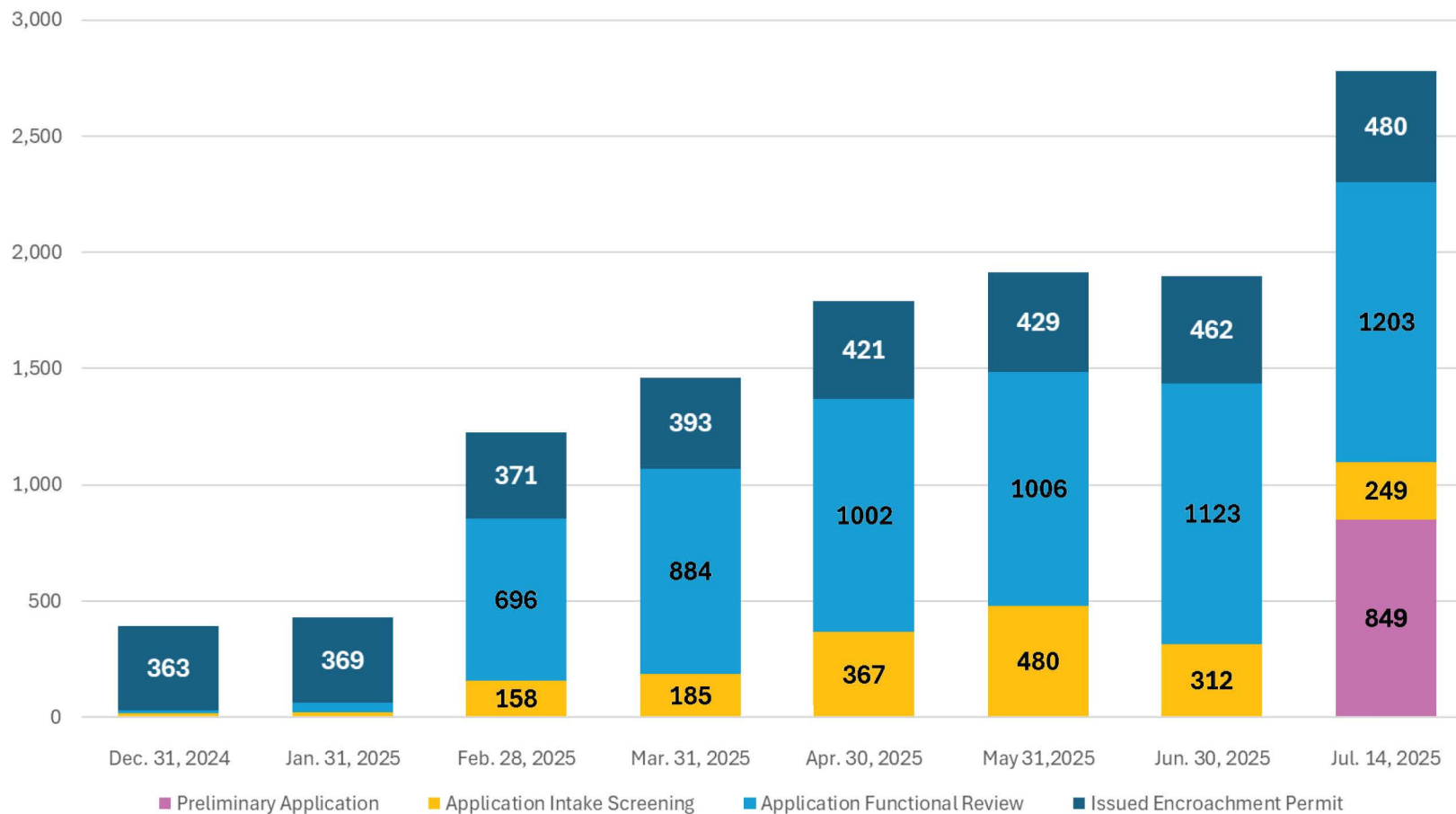
* Data as of 07/14/2025



Partner Builds: Caltrans Encroachment Permits

MMBN Encroachment Permits Status

Encroachment Permit (Build Miles) by Month



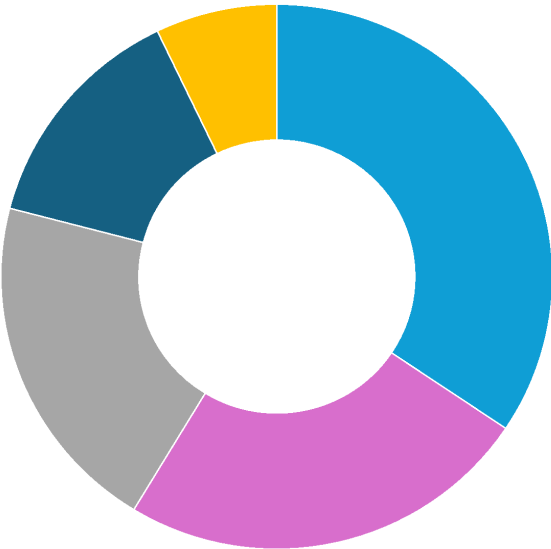


Partner Builds: Caltrans Encroachment Permits

Miles by Partner

■ Preliminary Application ■ Application Intake Screening ■ Application Functional Review ■ Issued Encroachment Permit ■ Presubmission Effort

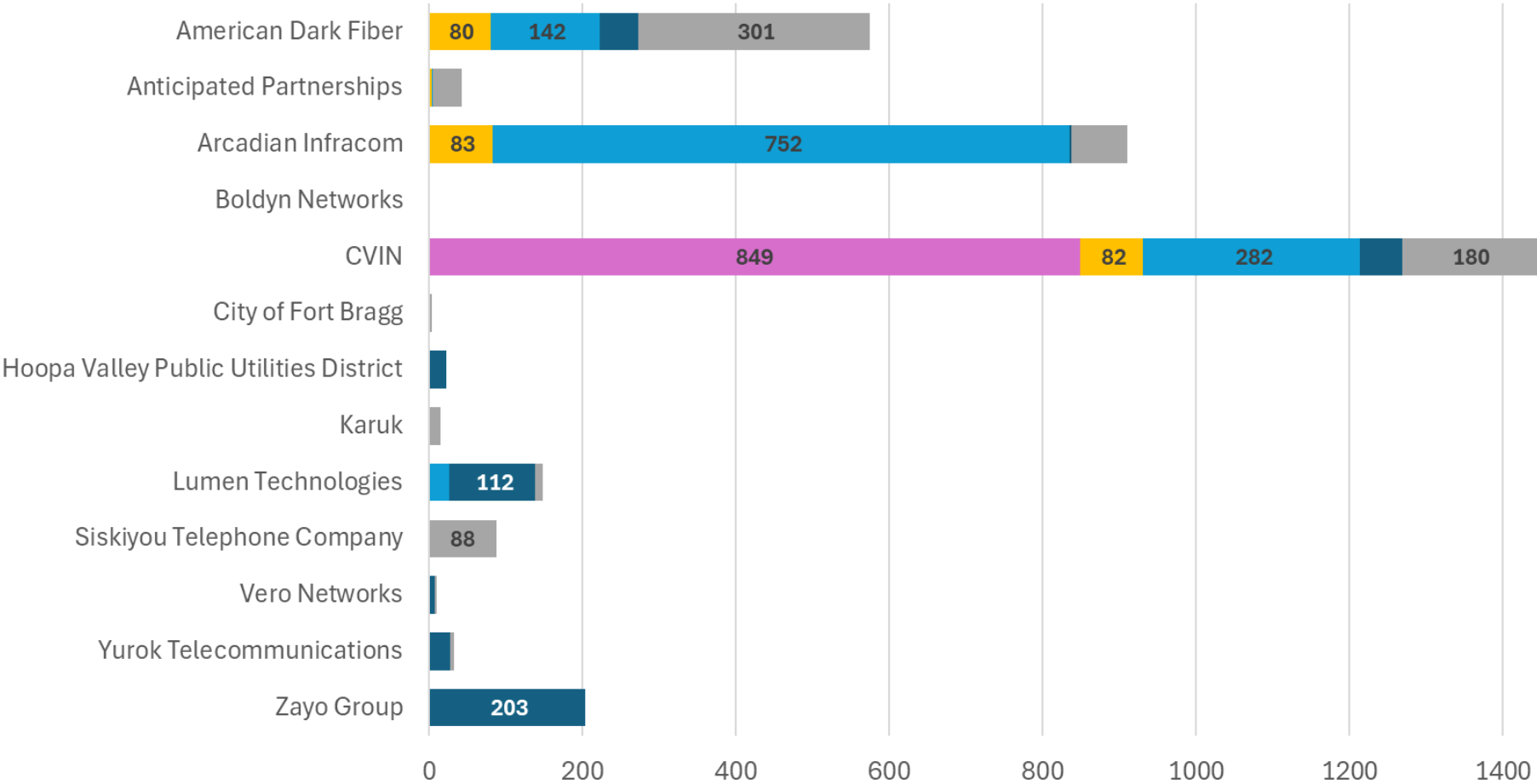
Permit by Mile



Status	Miles
Preliminary Application	849
App Intake Screening	249
App Functional Review	1,203
Issued Encroachment Permit	483
Pre-submission Effort	712
Total	3,497*

* Total excludes Digital 395 and Trans Pacific Network, which precede MMBI

Miles by Partner & Status

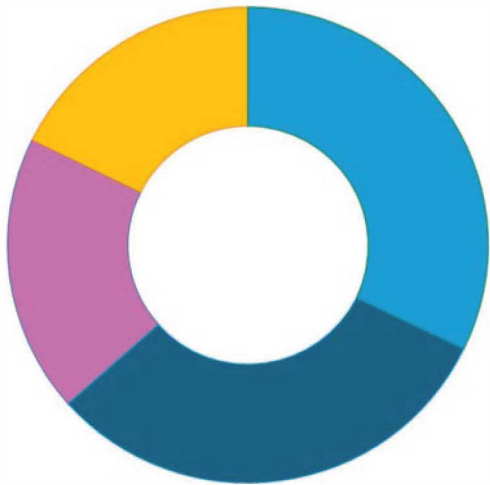




Partner Builds: Caltrans Encroachment Permits

Application Count by Partner

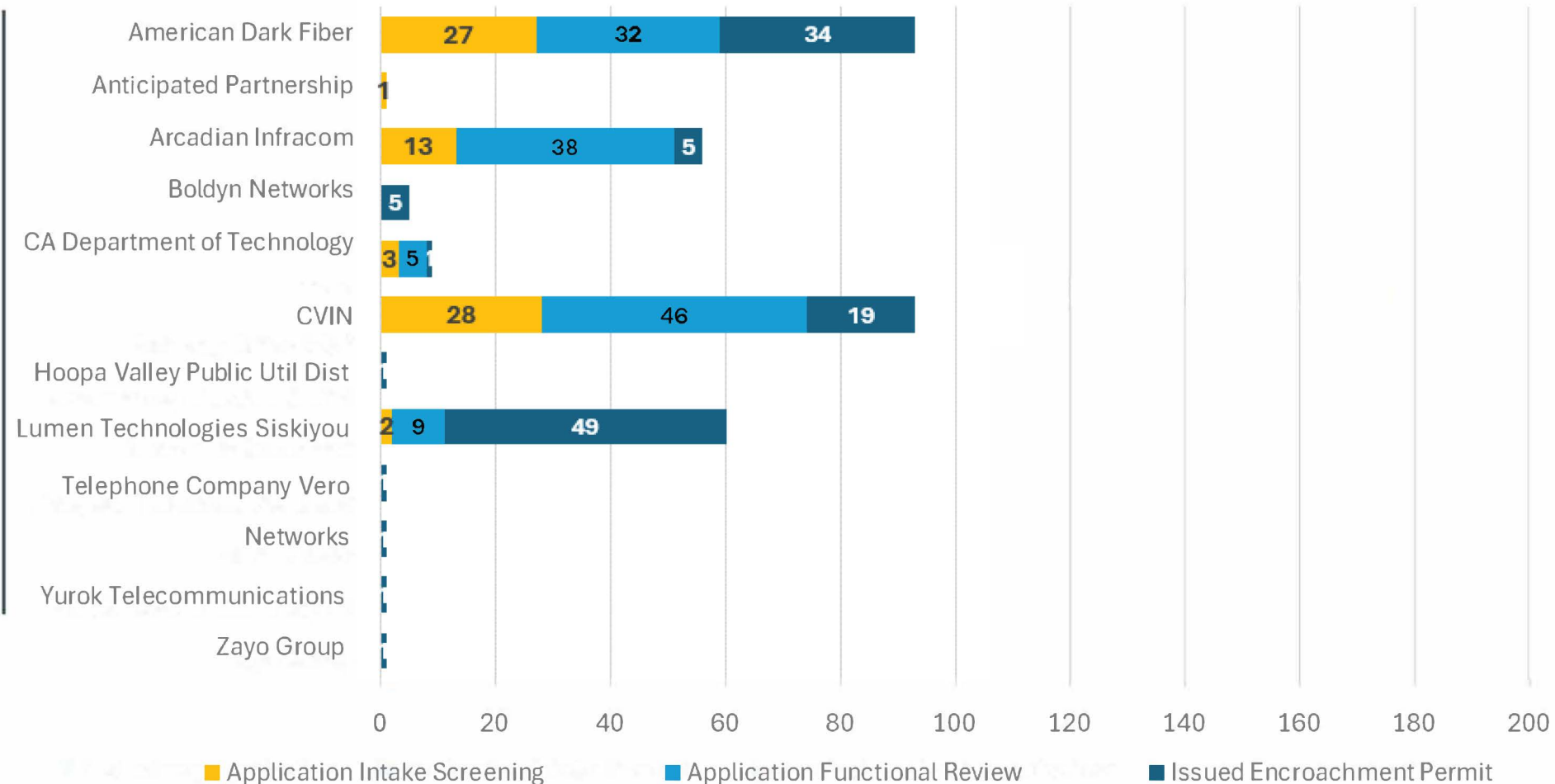
Permit Count by Status



- Preliminary Application (78)
- Application Intake Screening (73)
- Application Functional Review (133)
- Issued Encroachment Permit (129)

413 Total Permits

Partner Count by Partner & Status





Partner Builds: Caltrans Encroachment Permits

Encroachment Permits Lookahead

**CDT Partner
Miles in Caltrans
Encroachment
Permit System
(CEPS)**

- Understand the universe
- Ability to better leverage Caltrans project location knowledge and previous work/studies
- Supports collaboration around segment prioritization

**Master
Schedule**

- Single point of information with target dates for key milestone deliverables
- Common understanding of path forward and requirements
- Supports real-time communication



Erik Hunsinger

PRESIDENT & CHIEF OPERATING OFFICER

GoldenStateNet

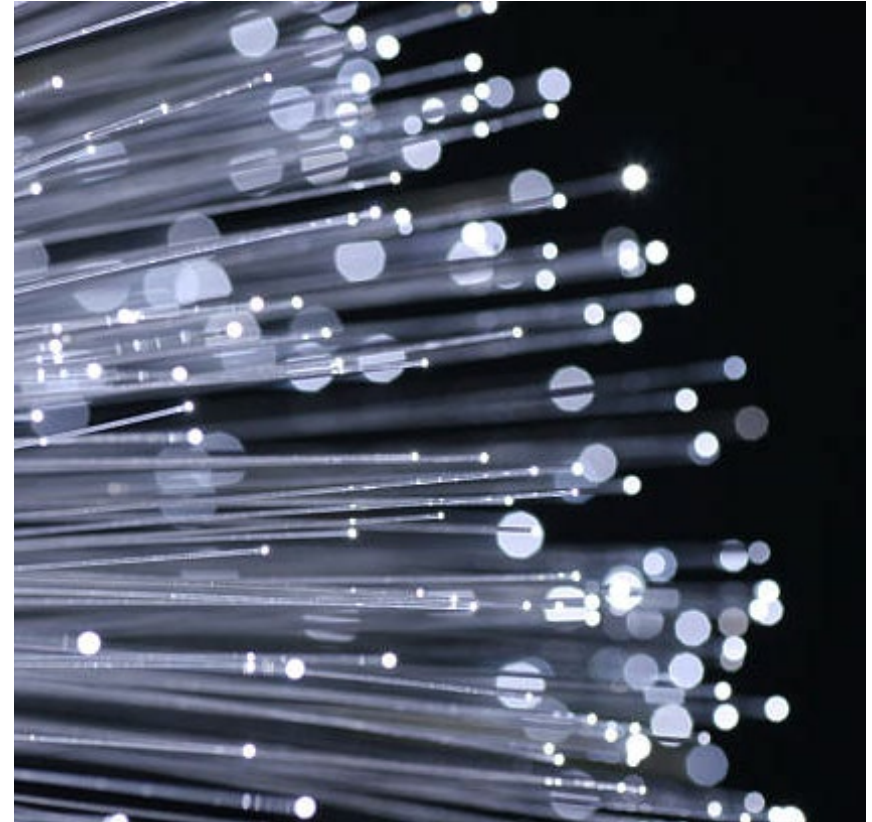
MIDDLE-MILE BROADBAND INITIATIVE

Early Revenue Generation Strategy

- Jumpstart sustainability and enforce the policy goals of the Middle Mile Broadband Network (MMBN)
- Engage with FFA, Tribal, local government, and commercial clients
- Create cash reserves for the initial operations of the network

Dark Fiber Revenue Generation

- Dark Fiber sales are typically IRU contracts that would create a cash reserve for the network
- Commercial clients are seeking diverse network routing and contracts to protect their business.
- Early sales will underwrite the on-going costs to operate the network



MIDDLE-MILE BROADBAND INITIATIVE

MMBN Revenue Generation Summary

- Meet with 40 interested commercial organizations
- Messaged the priorities of SB156 and the opportunity to find synergies with the network and commercial business models.
- MMBN offers flexibility in use and network design that is not afforded in competing commercial networks.

Opportunity	Quoted Total Contract Value
Bay Area to LA	\$ 6,857,275
Bay Area to LA	\$ 18,953,000
Bay Area to Sacramento	\$ 2,673,200
Bay Area to Sacramento	\$ 2,037,000
Segment on D395	\$ 680,000
Bay Area to Reno	\$ 5,807,000
North of California to LA & Bay Area (multiple routes)	\$ 19,138,000
North of California to Bay Area and Central Valley (multiple routes)	\$ 21,224,000
Bay Area to LA	\$ 21,118,000
North of California to Central	\$ 17,048,200
Bay Area to North California	\$ 8,644,150
North of California to Cental	\$ 1,164,000
	\$ 125,343,825

MIDDLE-MILE BROADBAND INITIATIVE

MMBN Lab Deployment

The MMBN Lab is a critical first step for validating system performance and optimizing configurations. Successful testing ensures smooth integration before field implementation.

- **Lab Infrastructure Deployed** The MMBN lab at the CENIC/GSN facility simulates three interconnected huts.
- **Template Configuration Validation** The MMBN lab is the environment where configurations are validated and standardized.
- **Monitoring Systems Certification** Network monitoring systems will be validated for compatibility and functionality prior to field implementation.





Maria Ellis

Deputy Director, Broadband

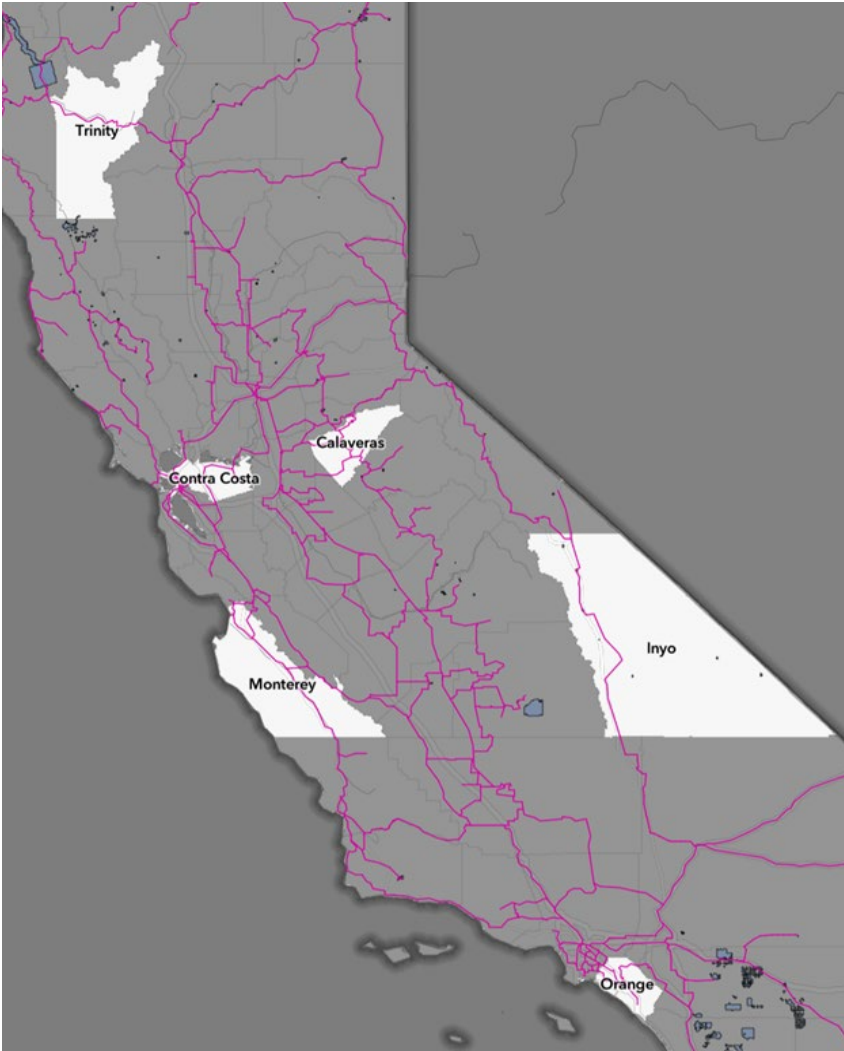
California Public Utilities Commission

CPUC Last Mile Summary

Broadband Programs & 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 (thru Fiscal Year 27-28)
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?	Implementing the BEAD Restructuring Policy Notice	Infrastructure, Adoption, Public Housing, Line Extension and Tribal Tech Assistance application cycles in 2025	Awarded	Evaluating 2nd Round Applications for Award

Last Mile Federal Funding Account

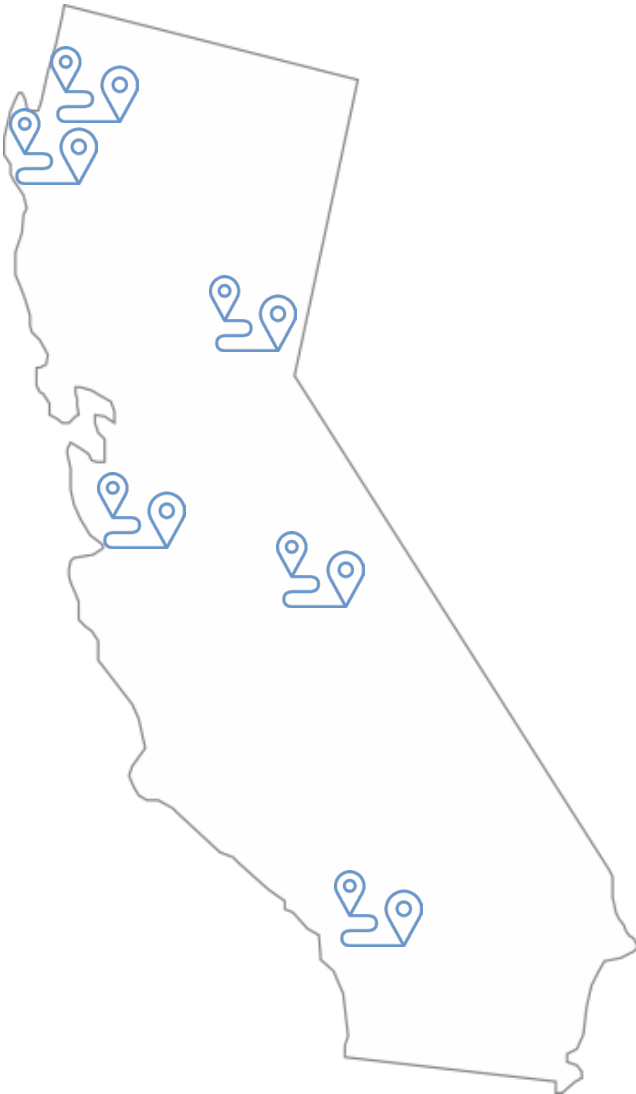


Round 2: Limited Six-County Opportunity

- Counties without round 1 awards: **Calaveras, Contra Costa, Inyo, Monterey, Orange, and Trinity**
- **72** applications from **21** entities
- Requested **\$600** million in grant funding
 - Combined allocation for grants in the six counties is \$244 million
 - Approximately \$200 million is available for awards
- 5+ applications in all six counties.

CPUC Last Mile Update

Federal Funding Account Ground-Breaking Events



California Broadband Alliance and Surfnet

- April in Santa Clara County for last mile California Advanced Services Fund Infrastructure and Federal Funding Account grants to Surfnet and the California Broadband Alliance.

Plumas Sierra Telecommunications

- May in Plumas County. To celebrate the 11 projects in various stages of construction including some providing service.

Vero Fiber Networks

- June in Humboldt County. To celebrate the grant project and private investment in networks in the area.

Gateway Cities Council of Governments

- June in Compton in Los Angeles County to celebrate the joint Middle Mile Broadband Network and last mile Federal Funding Account project.

Yurok Telecommunications Corporation

- July in Humboldt County. To celebrate the middle-mile and last mile projects.

CPUC Last Mile Update

Building Last Mile Networks



Los Angeles County



Plumas County



Santa Clara County



Plumas County

CPUC BEAD Update

BEAD Restructuring Policy Notice

On June 6, 2025, NTIA issued a policy notice to implement programmatic changes to BEAD.

- Rulemaking 23-02-016
- Updated Prequalification and Project Application materials to comply with the Policy Notice available online
- Accepting Project Applications for "Benefit of the Bragin" from July 19 – August 2, 2025.
- Final Proposal will be available for public comment prior to Commission vote

Updates will be posted to CPUC BEAD website

Event	Date
Prequalification	
Application reopens	July 11, 2025
Application closes	July 17, 2025, 6:00p.m. Pacific
Benefit of the Bargain Round (Subgrantee Selection)	
Application reopens	July 19, 2025
Application closes	August 2, 2025, 6:00p.m. Pacific
Comments on draft Resolution and Final Proposal	Shortened Comment Period*

*The CPUC issued a proposed decision to address changes to the CPUC's BEAD Program Rules and Final Proposal adoption: [Proposed Decision Modifying Decisions 24-05-029 and 24-09-050](#)

PUBLIC COMMENTS

Sign up:
Broadband for All Newsletter



Next MMAC Meeting:
Friday, October 17th

MiddleMile@state.ca.gov

THANK YOU!

**Please join us at our next
MMAC Meeting**

**Friday, October 17, 2025
10:00 a.m. – 12:00 p.m.**

MiddleMile@state.ca.gov