



Middle-Mile Advisory Committee Meeting

January 17, 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

Project Update

- New or Expanded Partnerships
- FFA Grant Awardee Handoffs
- Installation Progress
- Operations Look Ahead
- MMBI Tribal Benefits



CDT: Project Update

New & Expanded Partnerships

121 Miles Since Last MMAC Meeting

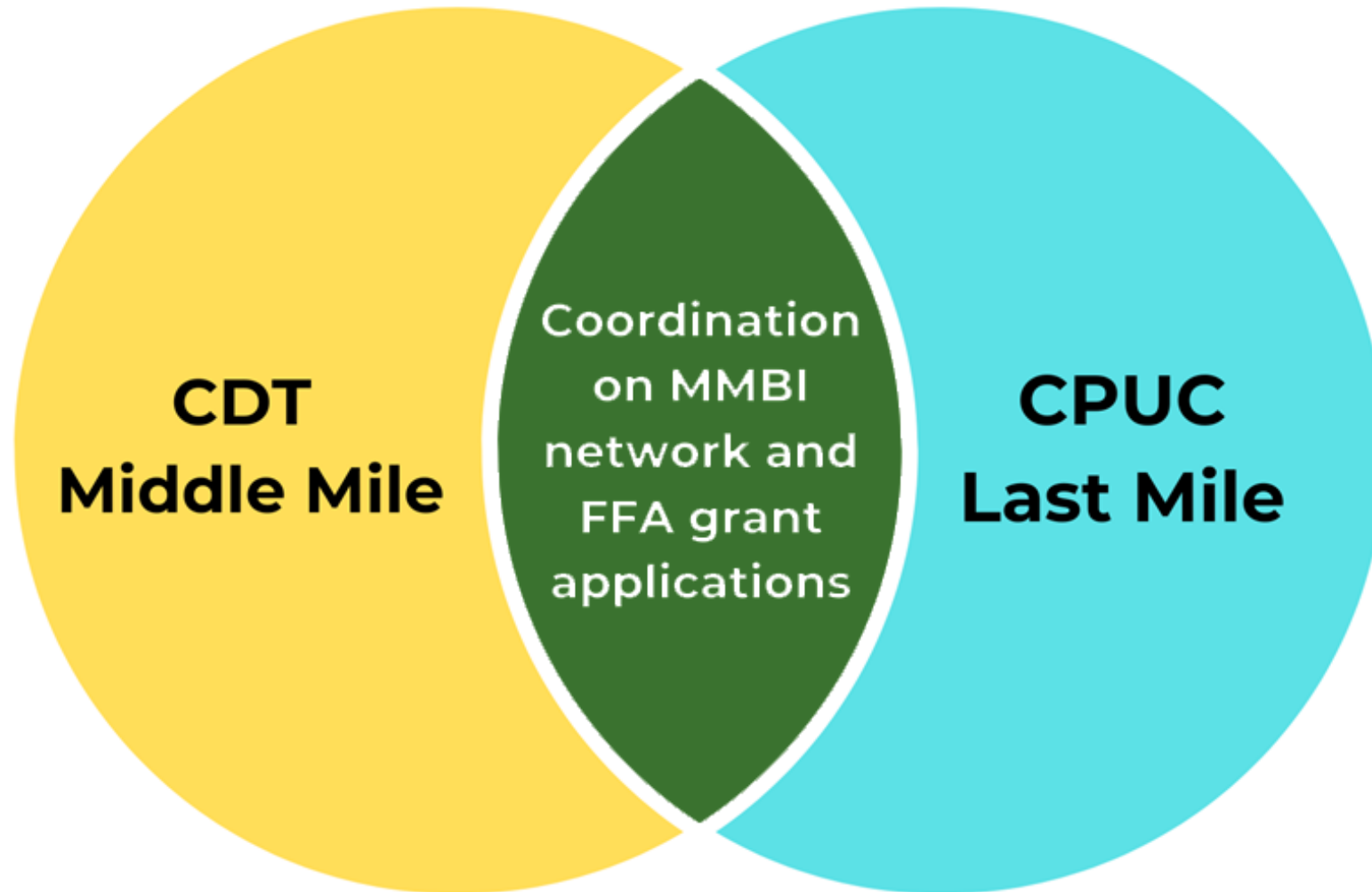
Karuk Tribe (46 miles)

Gateway Cities (75 miles)



CDT: Project Update

FFA Grant Awardee Handoffs



CDT: Project Update

Installation Progress: 2024

2024

Cumulative Installation

Miles in Progress by Month





Shannon Martin-Guzman

PROJECT DELIVERY MANAGER

Middle-Mile Broadband Initiative
California Department of Technology

CDT: Project Update

Installation Map



Installation

- **3,090 Miles Actively Being Installed**
- Construction, Trenching/Boring
- Fiber Pulls and Testing



CDT: Project Update

RFI² Installation Progress

RFI ² Construction	In Preconstruction	In Installation	Total RFI ² Miles
Jan 2025 MMAC	4,341	2,998	7,339
Oct 2024 MMAC	5,463	1,761	7,224
Change	(1,122)	1,237	115*

* Total RFI² miles have been increased by 115, due to hub entry refinement, new/expanded RFI² partnerships, and other minor design changes.

Government-to-Government Partnerships



Signed

Joint Builds

- Karuk Tribe (46 miles)
- Gateway Cities (75 miles)

Joint Builds and Land Leases for Hubs

- 5 Tribal Communities (21 miles, 3 hubs)
- Ventura County (45 miles)
- City of LA Bureau of Street Lighting (13 miles)
- City of Fort Bragg (5.6 miles)



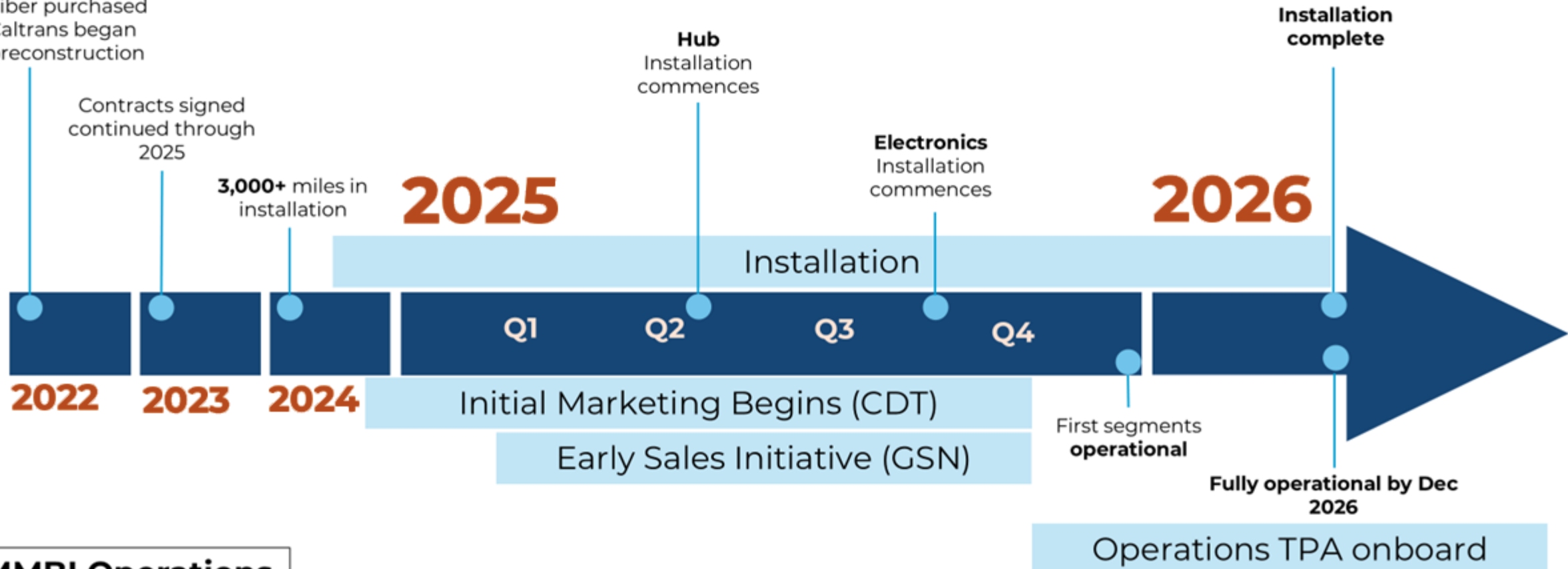
Negotiating

CDT: Project Update

Operations Look Ahead

MMBI Development

- Network designed
- Fiber purchased
- Caltrans began preconstruction



MMBI Operations

CDT: Project Update

Operations Look Ahead

California Network and Telecommunications (CALNET)

MMBI will be offered through CALNET:

- Dedicated internet access
- Network transport
- Dark Fiber service



A program administered by CDT, providing telecommunications and network services for State entities.



Matt Rantanen

Vice President, Tribal Relations

CENIC, MMBI

Golden State Network

CDT: Project Update

Economics and Job Opportunities in Tribal Communities

Construction and Maintenance **Jobs**

Development of Professional **Expertise**

Revenue Opportunities for Tribes

Telecommuting for Jobs and Education

Physical and Mental **Health**



MMBN Partnership Update

Karuk Tribe Joint-Build Agreement





Eric Cutright

Chief Information Officer

Karuk Tribe



Monica Hernández

DEPUTY DIRECTOR

Communications & Stakeholder Relations
California Department of Technology

CDT: Project Update

2025 MMBI Stakeholder Engagement Schedule

Virtual Meetings

10:00-11:30 a.m.

Friday, January 31st

Friday, May 2nd

Friday, August 1st

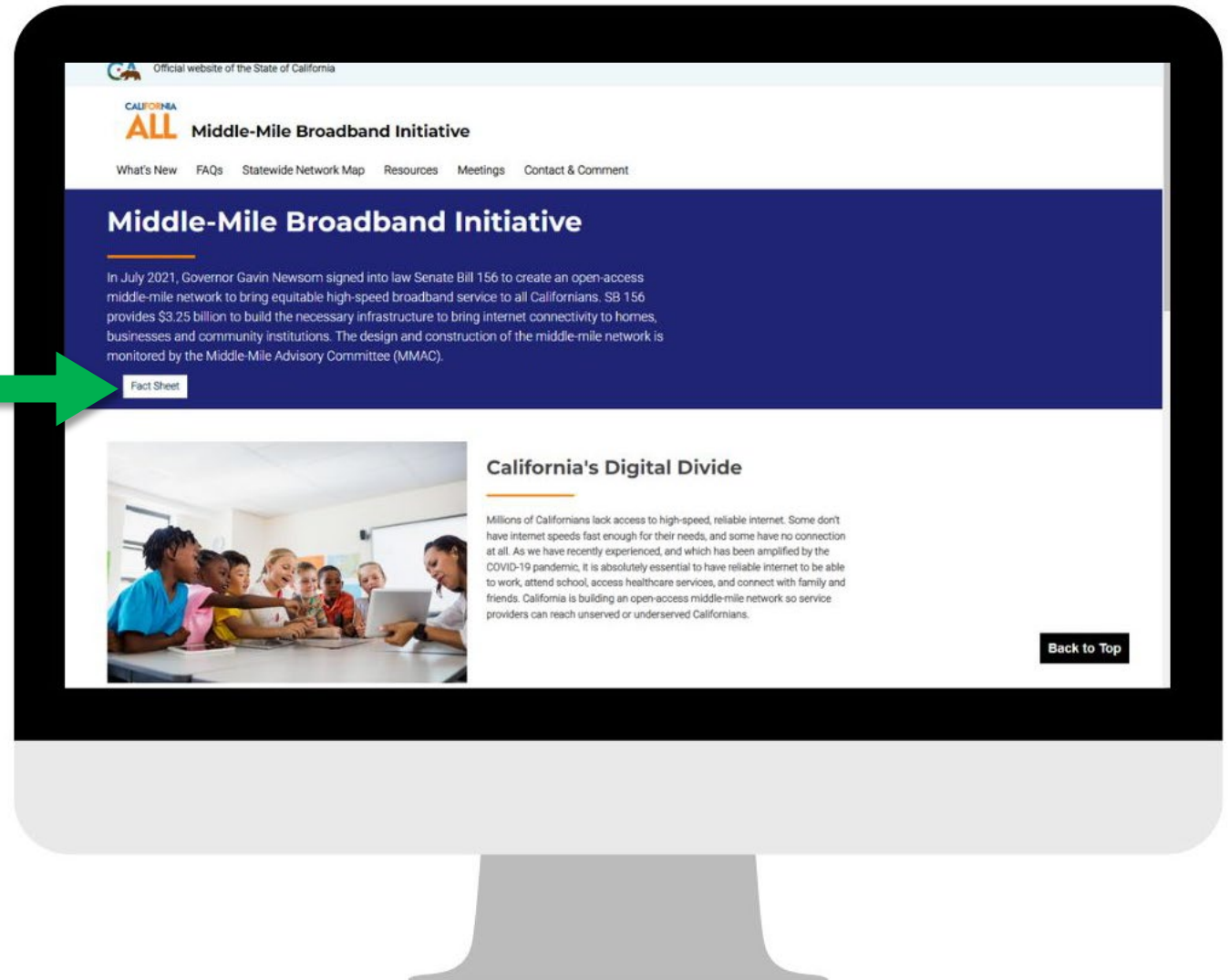
Friday, October 31st



Middle-Mile Broadband Initiative Monthly Fact Sheet



Spotlight Stories
Pre-Planning Updates
Installation Updates
At-a-Glance





1. At A Glance



Statewide Network Project Status

- Pre-Construction
- Installation
- Ready-to-Connect
- County Boundary



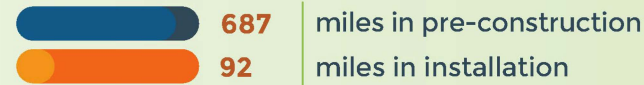
Pre-Construction: 5,028 miles (62% of the total miles)



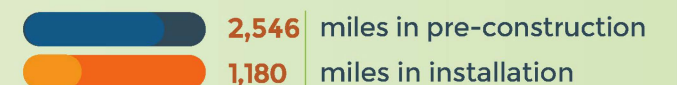
Installation: 3,090 miles (38% of the total miles)

2. Network Development Activities

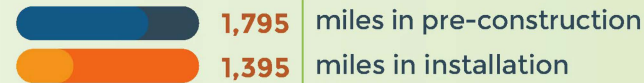
Caltrans Construction: 779 total miles including SR 67 Dig Smart



IRU/Lease Partners: 3,726 total miles Boldyn, CVIN, Lumen, TPN-299, Ytel



Joint Build Partners: 3,190 total miles American Dark Fiber, Arcadian, Hoopa Valley, Lumen, Siskiyou Tel, Vero, Zayo, Karuk Tribe, Gateway Cities Council of Governments



Purchase Partner: 423 total miles Digital 395



3. Spotlight

The California Department of Technology (CDT) and the Karuk Tribe have entered into a historic partnership to install and maintain approximately 46 miles of the Middle-Mile Broadband Network (MMBN) in Humboldt County and tribal lands. CDT also entered into a joint-build partnership with the Gateway Cities Council of Governments this month for approximately 73 miles of network in southeast Los Angeles County. These partnerships will pave the way for reliable and affordable high-speed internet access to rural, tribal, and urban communities.





Thank you!

Jeff

Wiley (Retired)

FORMER ASSISTANT DEPUTY DIRECTOR

Middle-Mile Broadband Initiative
California Department of Transportation



Welcome!

Elias Karam

ASSISTANT DEPUTY DIRECTOR

Middle-Mile Broadband Initiative
California Department of Transportation

Continued Partnership Role

Three Key Components

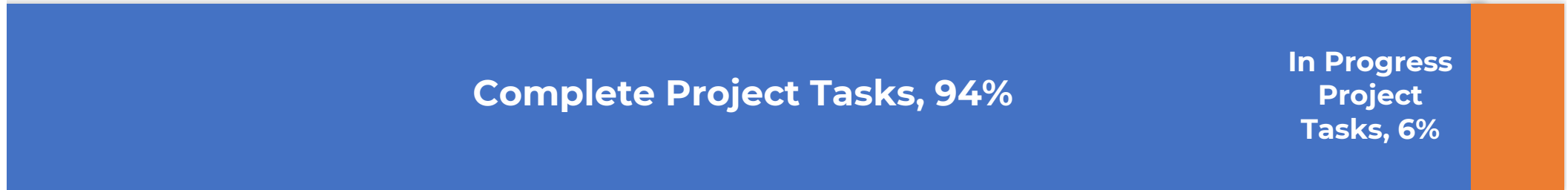
1. MMBN Fiber Installation
 - Preconstruction
 - Construction
2. MMBN Hub Installation
 - Preconstruction
 - Construction
3. RFI² Installation Partner Encroachment Permits



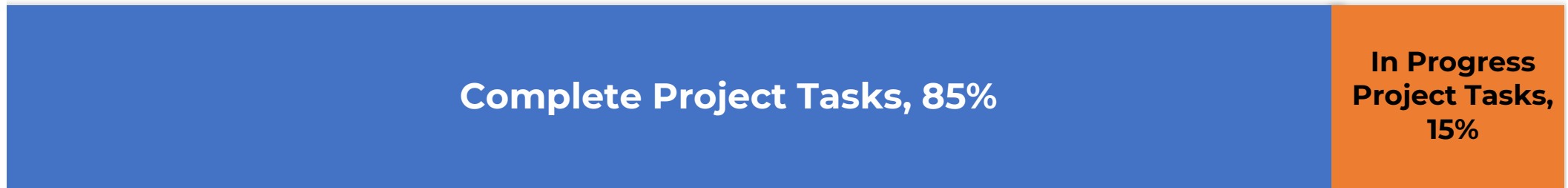
MMBN Fiber Installation:

Departmentwide Preconstruction Progress

Preconstruction progress: January 2025



Preconstruction progress: October 2024



MMBN Fiber Installation:

Preconstruction Miles Delivered/Completed

Preconstruction Completion in Miles

	Q2:24	Q3:24	Q4:24	Q1:25 Scheduled	Total
Jan 2025 MMAC	105	83	24	567	779
Oct 2024 MMAC	105	83	437	145	770

* Construction miles have increased by 9 due to minor adjustments to segments connecting to hubs.

*Data as of 1 January 2025, Based on Work Authorizations, Rounded to the Nearest Mile



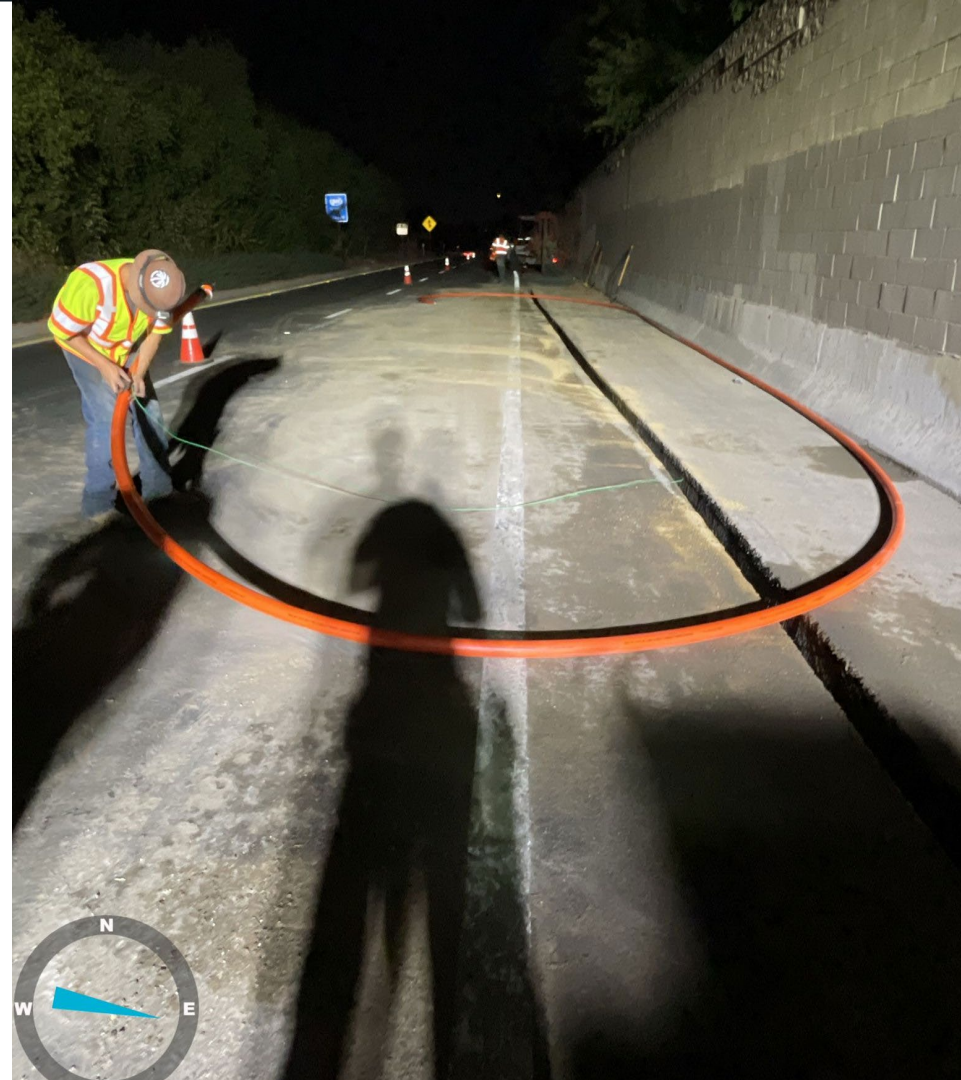
Caltrans: Project Update

MMBN Fiber Installation: Fiber **Construction** Miles in Progress

Construction Progress in miles

	In Construction	Remaining	Total Miles
Jan 2025 MMAC	91	688	779
Oct 2024 MMAC	62	708	770

Data as of 1 January 2025, Rounded to the Nearest Mile



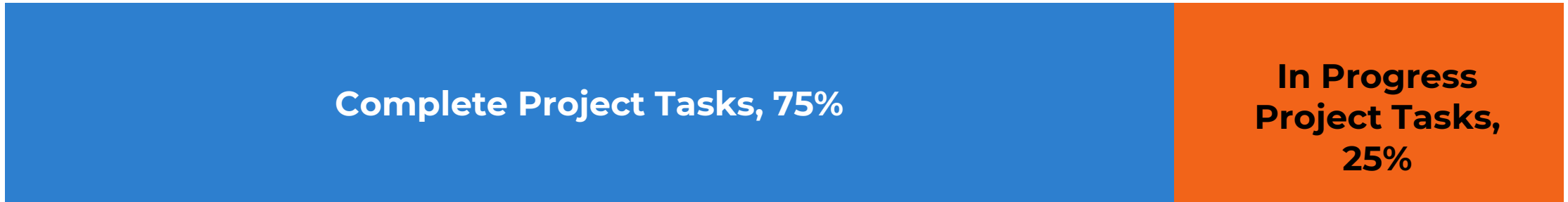
Caltrans: Project Update

MMBN Fiber Installation: Placer County Route 28



MMBN Hub Installation: Preconstruction Progress Statewide

Preconstruction Progress: January 2025 MMAC



Preconstruction Progress: October 2024 MMAC



MMBN Hub Installation: Preconstruction Delivery Progress

Hub Installations				
	Q1:25	Q2:25	Q3:25	Total
Jan 2025 MMAC	20	74	14	108
Oct 2024 MMAC	58	42	12	112

* The number of hubs has been reduced by 4 as CDT and GSN have worked to optimize network and reduce costs.

*Data as of January 2025



Caltrans: Project Update

Installation Partner Encroachment Permits

Preconstruction Progress: January 2025 MMAC



Preconstruction Progress: October 2024 MMAC



Caltrans: Project Update

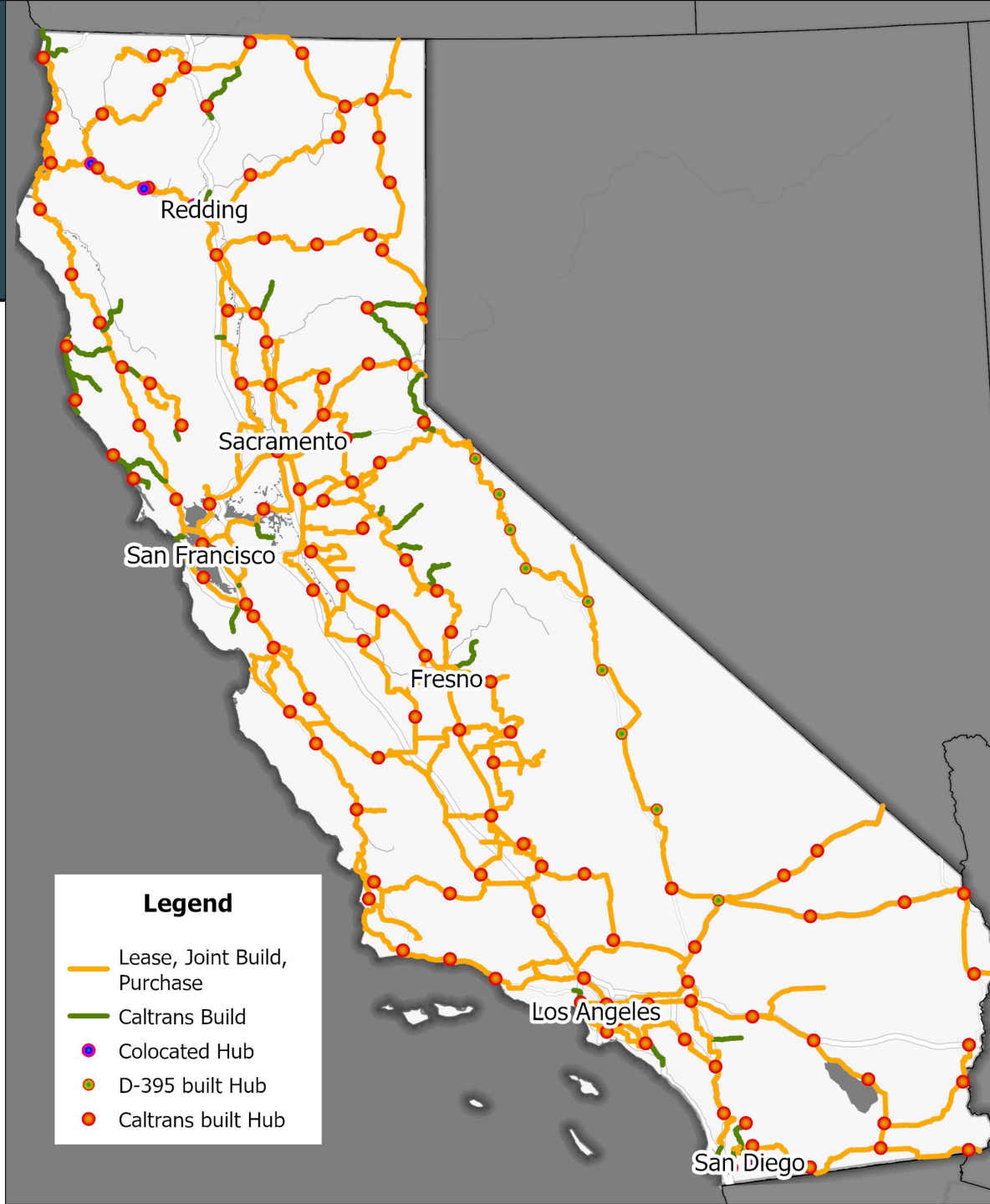
Installation Partner Encroachment Permits

Encroachment Permits for MMBI's RFI ² Partners	Applications Submitted	To be Submitted (preliminary)	Total Needed (preliminary)	Issued to Date by Caltrans
American Dark Fiber	49	20	69	11
Arcadian	1	43	44	0
Boldyn	2	2	4	0
CVIN	50	0	50	1
Hoopaa Valley	1	0	1	0
Lumen	15	9	24	0
Siskiyou Tel	0	1	1	0
Vero	2	1	3	1
YTel	1	1	2	0
Total	121	77	198	13

Installation Partner Encroachment Permits

- **QMAP vs EPOP**
- **Progress and successes**
- **Increased outreach to partners**
- **Planned partner engagements**

Data as of January 2025





Erik Hunsinger

PRESIDENT & CHIEF OPERATING OFFICER

GoldenStateNet

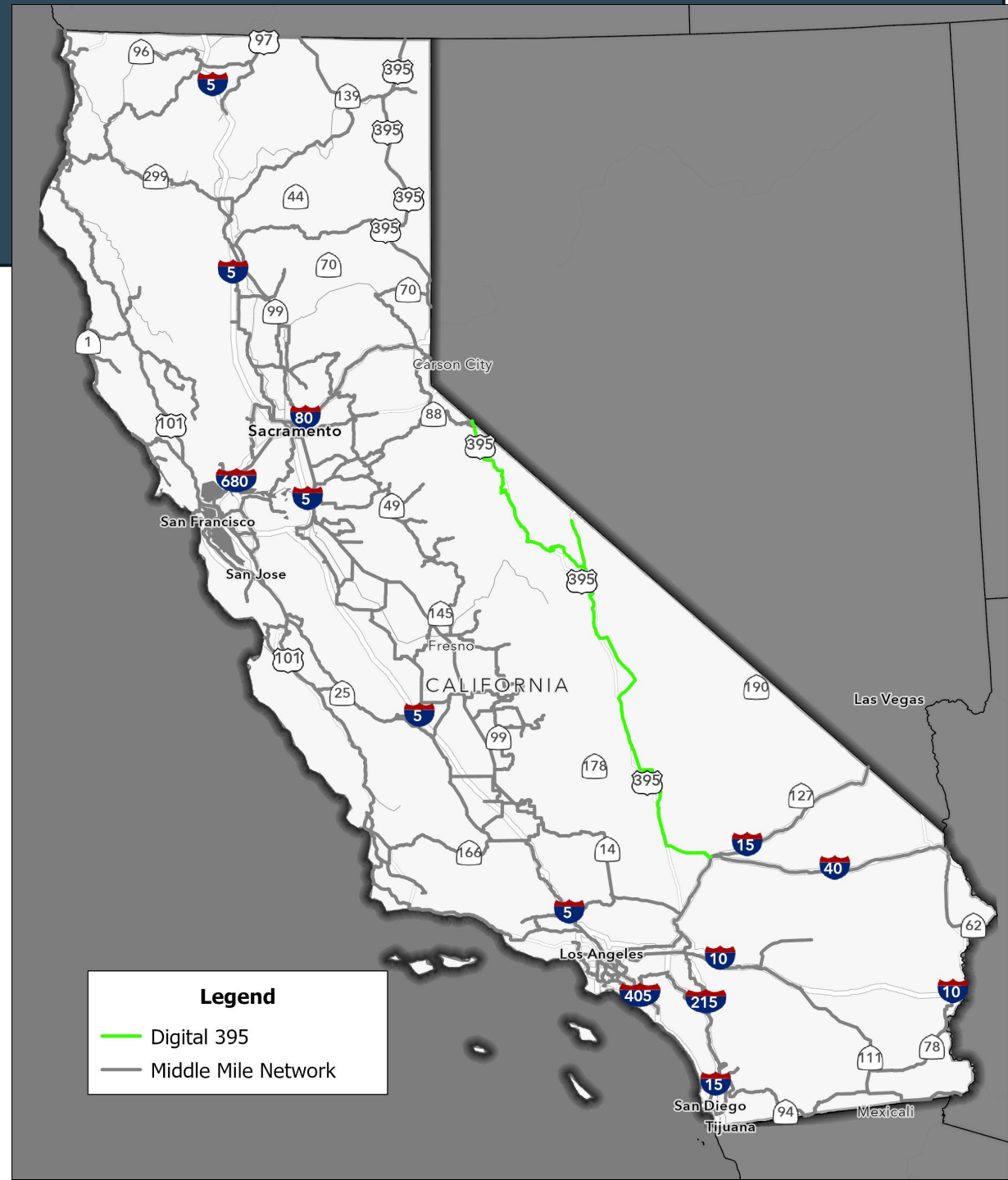
GSN: Project Update

Key Milestones

D395 - to be used for proof of network architecture

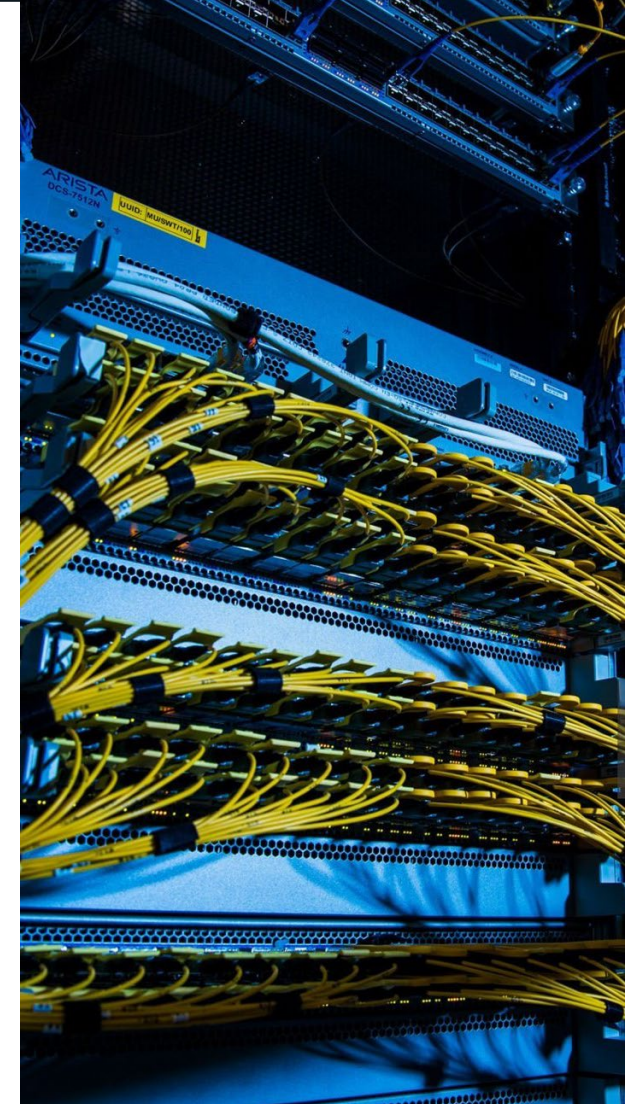
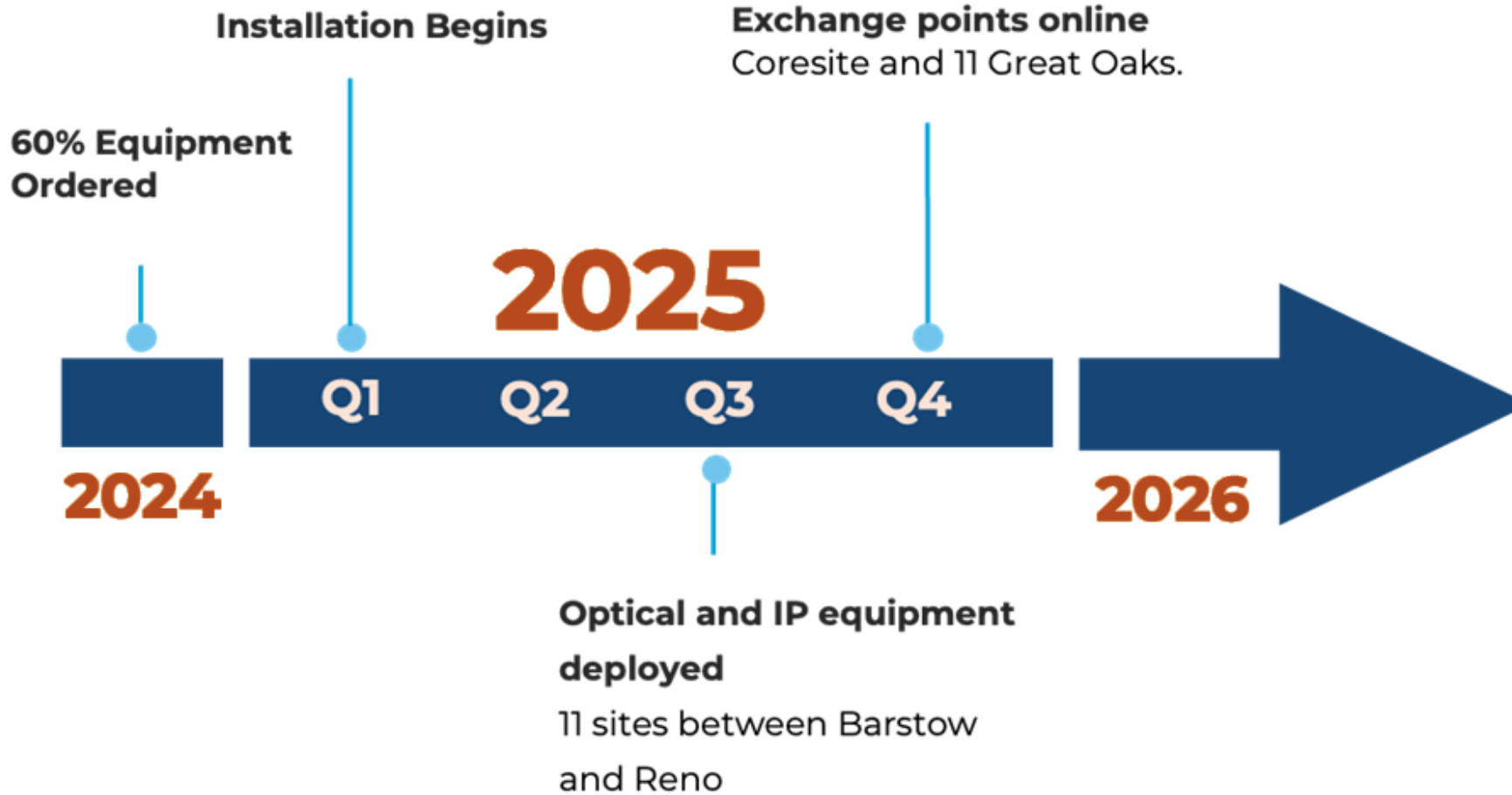
Upgrade of D395 huts and electronics to MMBN standards

Transport Activation on D395 targeted for Dec 2025



GSN: Project Update

Electronics Timeline for Lighting the Network



GSN: Project Update

Pro-active Coordination with FFA Awardees

Planning with **20 of 37**
awardees

Working session focus:

Dark Fiber vs. Lit Service

Interconnection Points

Network Goals

Dig Once

FFA Awardees	
City of Chico	City of Ukiah
City of Placerville	unWired Broadband, LLC
City of Shafter	Surfnet Communications, Inc.
City of Huntington Park	Astound Broadband, LLC
City of Fort Bragg	City of Indio
City of Vallejo	City of Sacramento
El Dorado County	City & County of San Francisco
County of Marin	City of San Luis Obispo
Zito Southern California, LLC	County of Placer
LCB Communications LLC	Hankins Information Technology Inc.



Maria Ellis

Deputy Director, Broadband

California Public Utilities Commission

CPUC Last Mile Summary

Broadband Programs & Investments Overview

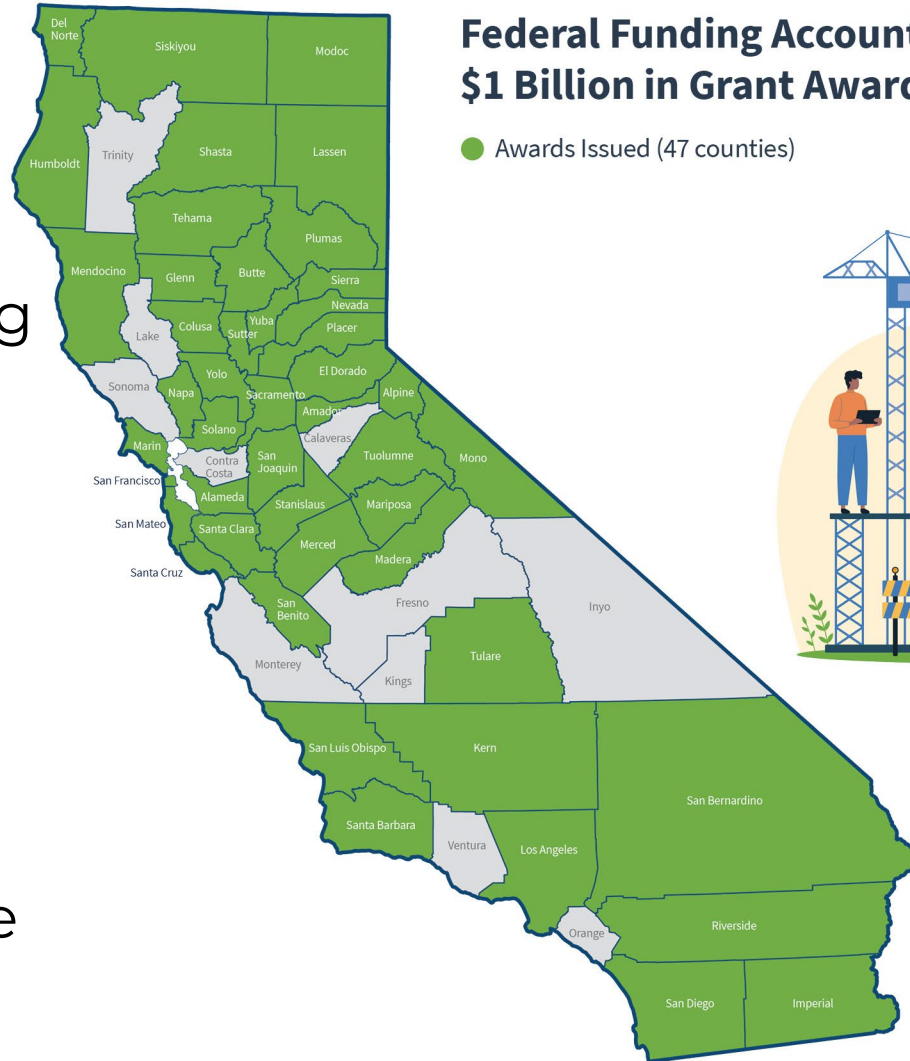
	Broadband Equity Access and Deployment (BEAD)	California Advanced Services Fund (CASF)	Loan Loss Reserve Fund (LLR)	Last Mile Federal Funding Account (FFA)
Amount	~\$1.86 billion	\$136 million for 2024-25	\$50 million	~\$2 billion
Summary	Funds for planning, infrastructure and adoption starting in 2024.	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?	Continue outreach and education with potential subgrantees.	Adoption, Public Housing, Line Extension and Tribal Tech Assistance application cycles in 2025.	Awarded	\$ 1 billion awards milestone

CPUC Last Mile Update

Federal Funding Account Successes

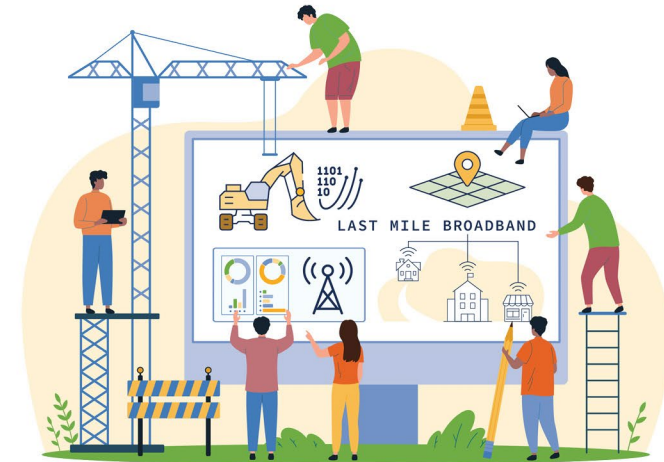
97 projects across California

- **\$1 billion** in grants awarded
- **47** counties with issued grants
- **2 million** Californians benefiting from these investments
- **8 Tribal** broadband grants issued
- **40 public entity** and partnership broadband grants issued
- **61** grants serving majority disadvantaged and low-income communities



Federal Funding Account Issues \$1 Billion in Grant Awards

● Awards Issued (47 counties)



Broadband for All is California's commitment to closing the digital divide. We're connecting homes, schools, and businesses as quickly as possible to the internet.

CPUC Last Mile Update

Federal Funding Account Environmental & Social Justice Communities and MMBI

- **Humboldt County: Karuk Tribe Fiber-To-The-Home Project**
 - Amount Awarded: \$27.4M
 - Estimated Benefiting Population: 800
 - 100 percent of the project area is considered low-income
- **Tulare County: VARCOMM Broadband Terra Bella Project**
 - Amount Awarded: \$10M
 - Estimated Benefiting Population: 6,000
 - Broadband boost for local businesses, farmers, and suppliers.
 - 100 percent of the project area is considered low-income
- **Los Angeles County: City of Huntington Park Project**
 - Amount Awarded: \$25.4M
 - Estimated Benefiting Population: 61,000
 - 100 percent of the project area is low-income/disadvantaged

The Federal
Funding Account
will make a
difference in
disadvantaged
areas.

CPUC Last Mile Update

Federal Funding Account in the Field

What Grantees Are Saying:

"Western Siskiyou County is one of the most remote regions in California, encompassing agricultural, tribal and multi-generational populations. This grant will ensure many California residents in our rural region will have access to one of today's most critical infrastructure, fiber broadband... Finally, this grant will also **benefit from the California State Middle Mile Broadband Initiative Project as the MMBI will significantly reduce the last mile costs for this project by building through this project area.** "

- Russell Elliott, Chief Executive Officer,
Siskiyou Telephone Company



CPUC Last Mile Update

Federal Funding Account in the Field



CPUC Last Mile Update

Loan Loss Reserve Success

Commission ACTION 1	Commission ACTION 2	Commission ACTION 3
\$50 Million Approved	\$50 Million Awarded	Resolution or Letter
Implements SB 109. Resolution T-17841 approves at least \$50 million in Broadband Loan Reserve Funding to be available to be awarded to applications, irrespective of cycles and tracks.	Awards up to \$50 million in Broadband Loan Loss Reserve Funding to ready-to-award applications conditional upon submission of a finalized project and bond details, in Resolution T-17858.	Approving Final Projects and Bond Details.
Adopted by the Commission on September 12, 2024.	Adopted by the Commission on November 7, 2024.	Targeted for early 2025.

CPUC Last Mile Update

Broadband Equity, Access, and Deployment (BEAD) Update

For deployment of last-mile service to unserved and underserved locations

Key Milestones in 2024

- ✓ *Five Year Action Plan accepted by National Telecommunications and Information Administration (NTIA)*
- ✓ *Approval for Initial Proposal Volume 1 received April 4, 2024*
- ✓ *Approval for Initial Proposal Volume 2 received October 3, 2024*
- ✓ *Conduct Challenge Process and submit results to NTIA for validation*
- ❑ *Conduct Subgrantee Selection Process—Q1-Q3 2025*
- ❑ *CPUC and NTIA approval of proposed grant awards— Q4 2025*

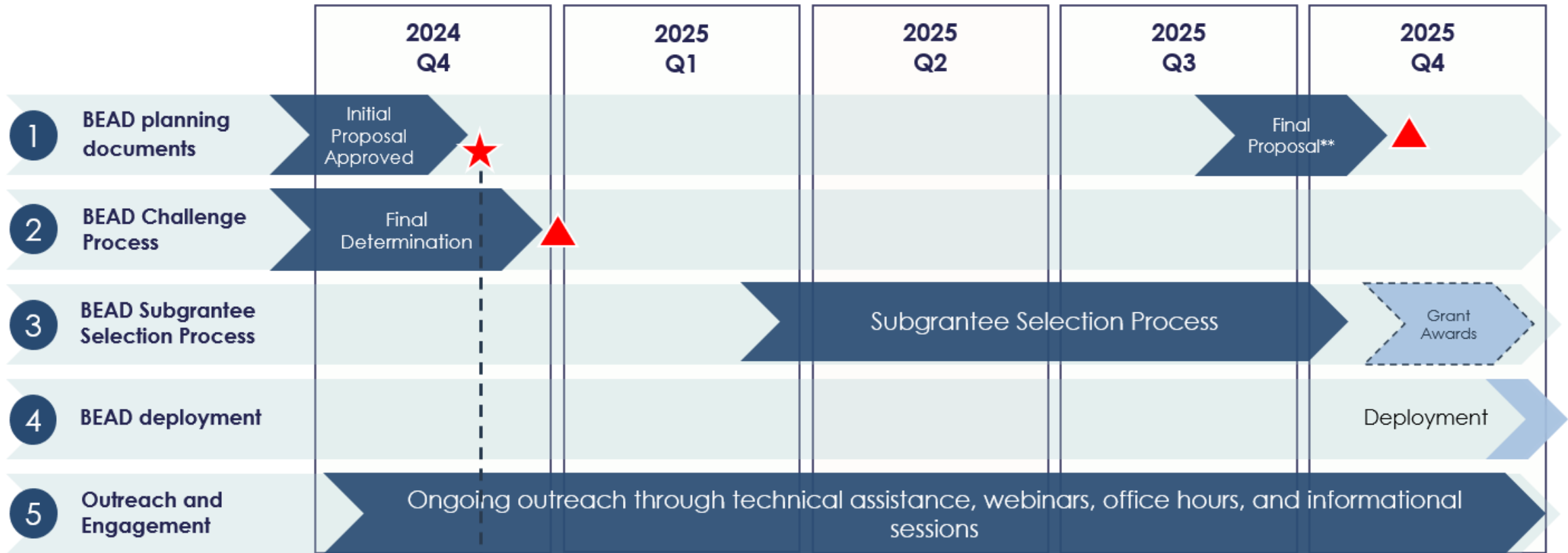
All activities subject to NTIA review and approval



CPUC Last Mile Update

Broadband Equity, Access, and Deployment (BEAD) Update

Specific dates and timelines will be published and communicated as soon as they have been determined



Subgrantee Selection rules approved
Final Determination submitted to NTIA



CPUC Last Mile Update

Broadband Equity, Access, and Deployment (BEAD) Update

Subgrantee Selection Process Outreach

CPUC is hosting webinars and office hours to educate stakeholders on the BEAD application process.

- Webinars will continue in 2025 (next one on January 28th).
- Office Hours will continue in 2025 every Thursday starting January 16th.

Webinar Topics:

- BEAD and Prequalification Overview (Dec 3)
- Program Design (Dec 10)
- Program Evaluation (Dec 17)
- Financial Requirements (Jan 9)
- Program Application (TBD)
- Technical Requirements (Jan 14)
- Matching Funds (Jan 28)
- Other BEAD Requirements (TBD)
- BEAD Environmental Compliance (Feb 4)
- BEAD Portal Demonstration (TBD)

Listing of upcoming webinars, registration links and past recordings are available [here](#).

PUBLIC COMMENTS

Sign up:
Broadband for All Newsletter



Next MMAC Meeting:
Friday, April 18th

MiddleMile@state.ca.gov

THANK YOU!

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

**Friday, April 18th, 2025
10:00 a.m. – 12:00 p.m.**

MiddleMile@state.ca.gov