



# Middle-Mile Advisory Committee Meeting

April 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 & Expanded Partnerships
- FFA Grantee Awardee Handoffs
- Marketing Updates
- Operations Look Ahead





**CDT: Project Update**

# **New & Expanded Partnerships**

## Shifted 520 Miles to RFI<sup>2</sup>

- American Dark Fiber 501 mi (Joint Build)
- Anticipated Tribal Partnership 19 mi (IRU/Lease)



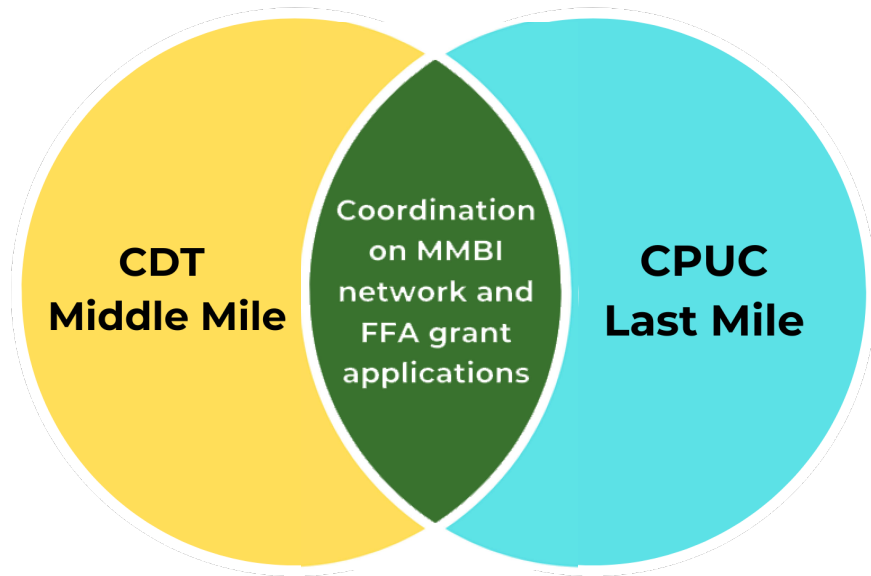
## CDT: Project Update

# Revised MMBN Cost Distribution

Cost Components		Revised Plan for \$3.873 Billion Budget		
		Miles (#)	Total Cost (\$ Billion)	Avg. Cost/Mile (\$ Million)
RFI2 Miles	IRU/Lease	3,757	\$ 1.055	\$ 0.281
	Joint-Build	3,668	\$ 1.386	\$ 0.378
	Purchase	424	\$ 0.031	\$ 0.073
	<b>RFI2 Total</b>	<b>7,849</b>	<b>\$ 2.472</b>	<b>\$ 0.315</b>
Caltrans Miles		305	\$ 0.265	\$ 0.869
Materials, Admin, Contingency, Etc.		N/A	\$ 1.137	N/A
<b>MMBN Total</b>		<b>8,154</b>	<b>\$ 3.873</b>	<b>\$ 0.475</b>

## CDT: Project Update

# FFA Grant Awardee Handoffs



## Pricing Model for FFA Grantees

### Price Cap Benchmark Methodology

- Caps reflect market pricing in well-served markets
- Caps are data driven
- Caps support deployment planning & budgeting

### Price Caps set for services most FFA grantees

#### desire

- Internet access
- Ethernet transport
- Wavelengths



## CDT: Project Update

# MMBI Construction Progress

Sum of Partner Miles	RFI <sup>2</sup>		Caltrans	Total
	Off Caltrans	On Caltrans		
Miles Completed (fiber, not huts)	1,073	759	98	<b>1,930</b>
Miles in Construction/Installation	971	673	207	<b>1,851</b>
Miles in Preconstruction (design, engineering, permitting)	1,357	3,016	-	<b>4,373</b>
<b>Total Miles</b>	<b>3,401</b>	<b>4,448</b>	<b>305</b>	<b>8,154</b>

**Construction:** Of the 3,781 miles that have gone to construction, 1,930 miles of fiber have been completed as of the end of March.

- Caltrans has gone to construction on all 305 miles.
- RFI2 Partners have gone to construction on 3,476 miles.



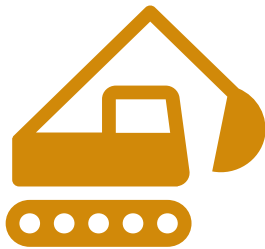
# Shannon Martin-Guzman

**PROJECT DELIVERY MANAGER**

Middle-Mile Broadband Initiative  
California Department of Technology

## CDT: Project Update

# Installation Map



Installation

- **3,781 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 7 segments
- Estimated Completion: Q3 2026

## New Projects

- Assisting with Joint Build projects in Los Angeles and Fort Bragg

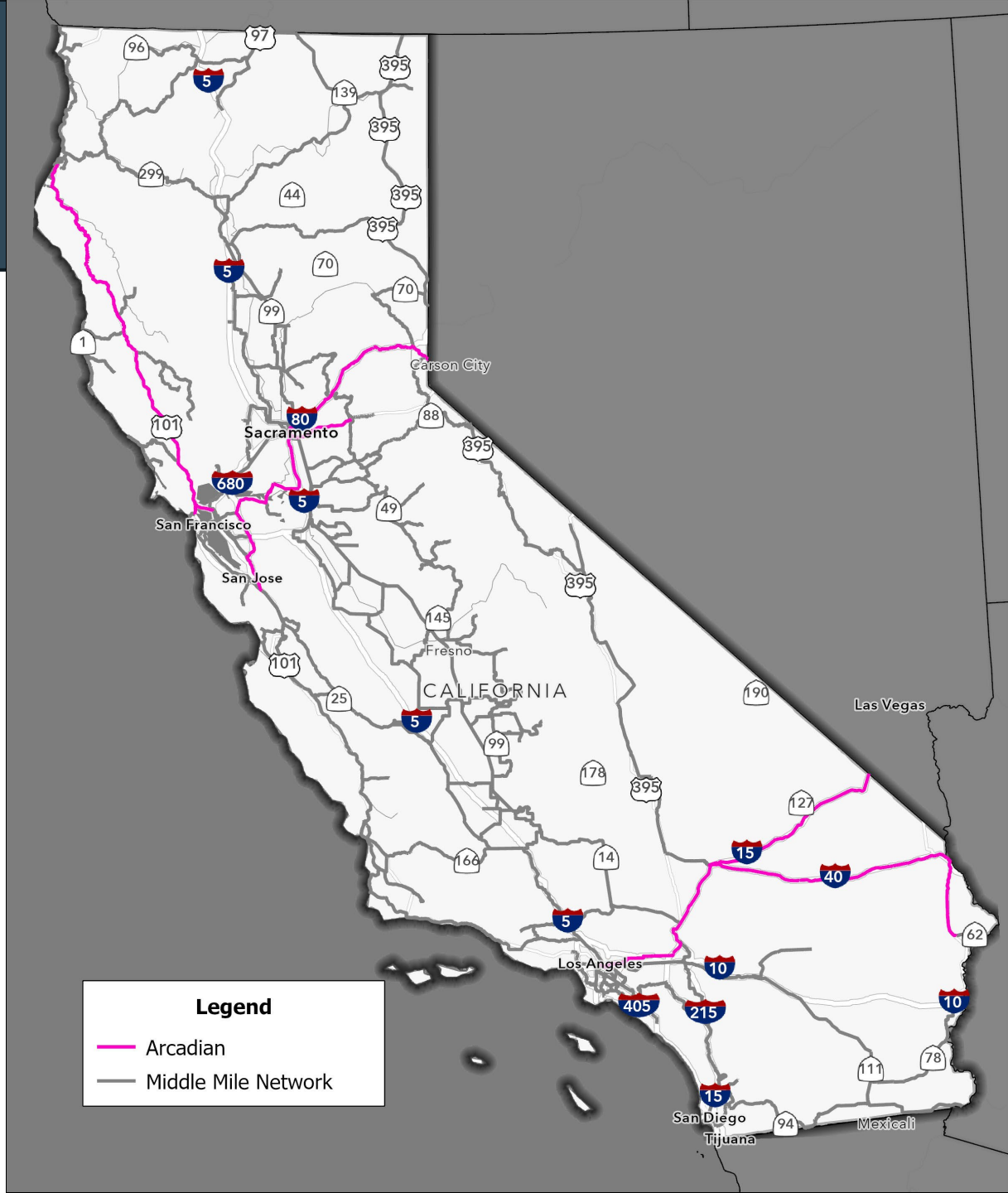


# Installation Partner

# Arcadian

## Joint-Build

- **1,004 Miles**
- Design and engineering has progressed from 70% (700 miles) to 90% complete (Approximately 900 miles)
- Estimated Completion: Q4 2026



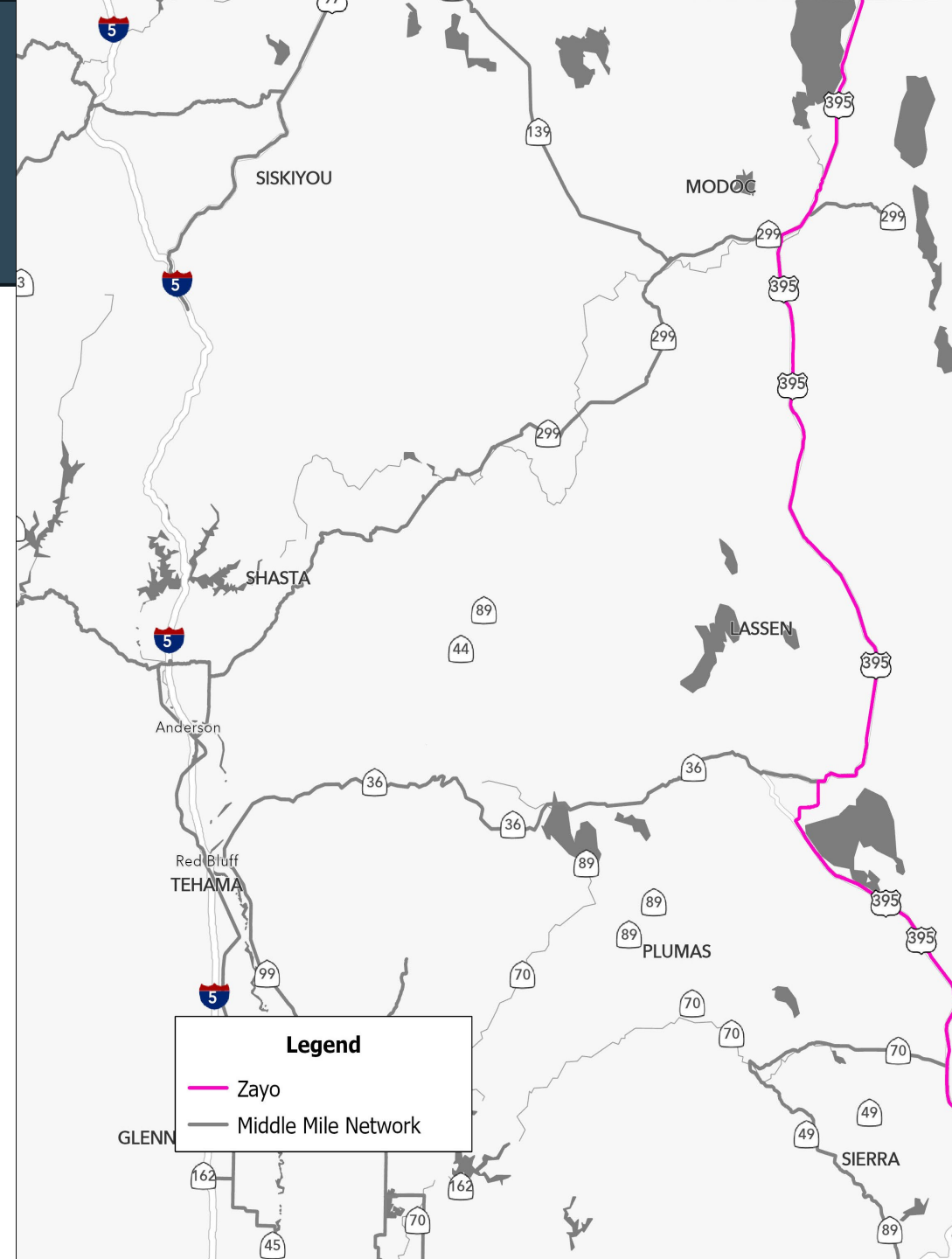
## CDT: Project Update

# Installation Partner

## Zayo

### Joint Build

- **194 Miles**
- Installation has progressed from 58% (111 miles) to 88% (170 miles) complete since January
- Estimated Completion: Q2 2025





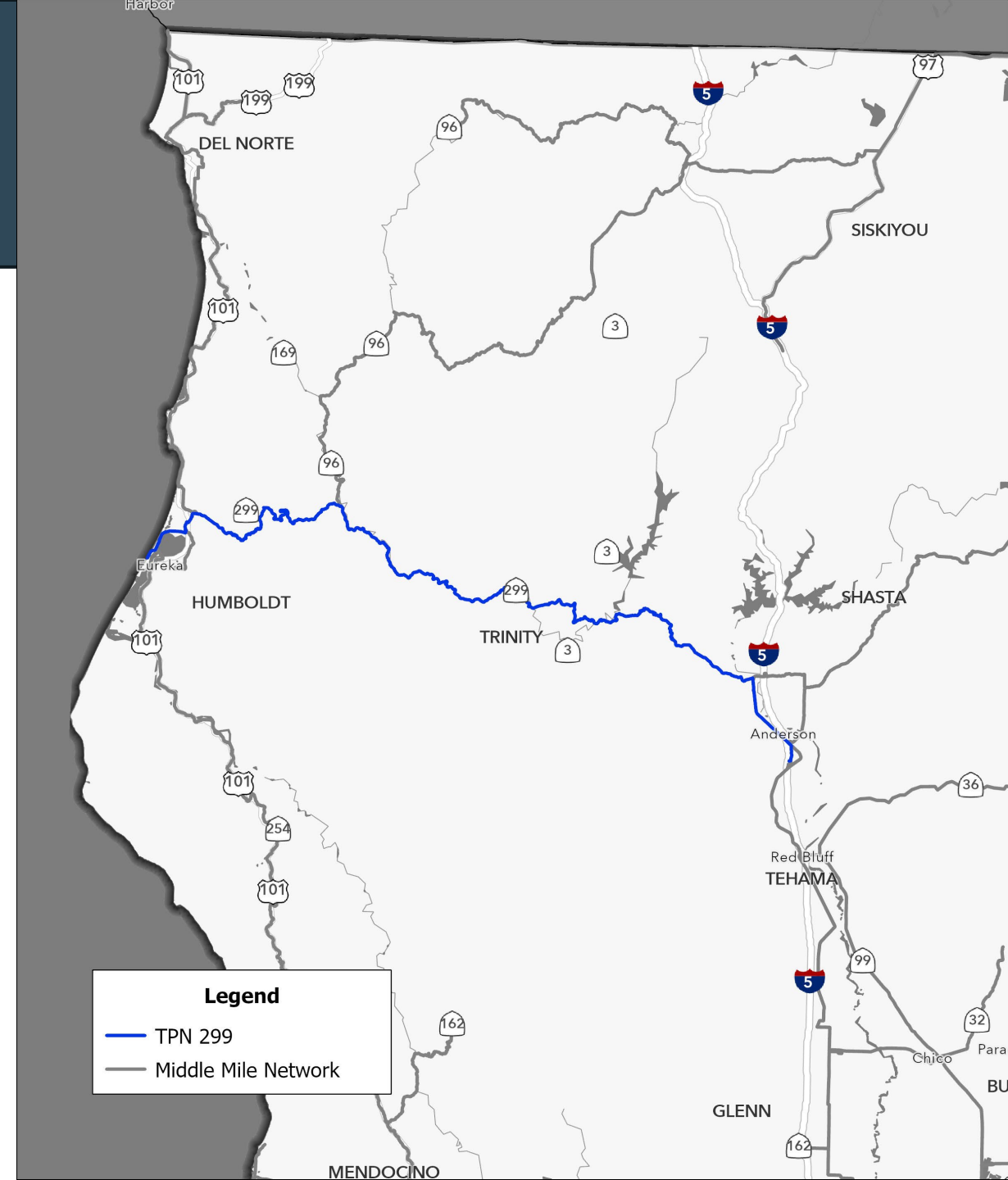
## CDT: Project Update

# Installation Partner

### TPN-299

IRU/Lease

- **171 Miles**
- Installation has progressed from 89% (153 miles) to 100% (171 miles) complete since January 2025
- Finalizing splicing and testing
- Estimated Completion: April 30, 2025



## CDT: Project Update

# Installation Partner

### Boldyn

IRU/Lease

- **81 Miles**
- Installation has progressed from 57% (47 miles) to 72% (60.3 miles) since January 2025
- Estimated Completion: early Q3 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 4 segments
- Installation in progress on 11 of 20 segments
- Estimated Completion: Q3 2026





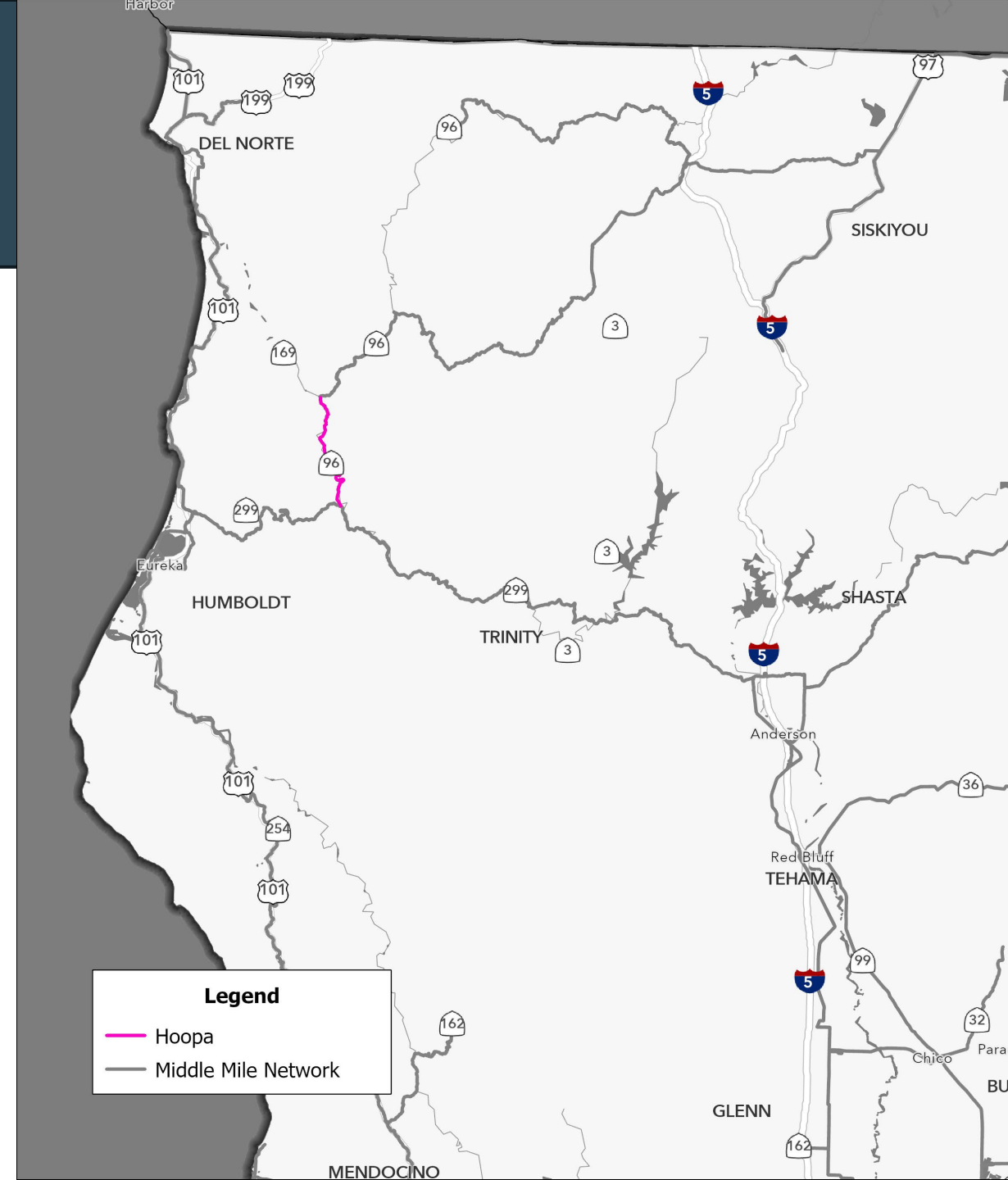
## CDT: Project Update

# Installation Partner

## Hoopa Valley

Joint-Build

- **22 Miles**
- Design and Engineering is nearly 100% complete
- Estimated Start: Q2 2025
- Estimated Completion: Q4 2026



## CDT: Project Update

# Installation Partner

**YTel**

IRU/Lease

- **49 Miles**
- Design and Engineering is currently at 85% complete
- Estimated Start: Q2 2025
- Estimated Completion: Q2 2026

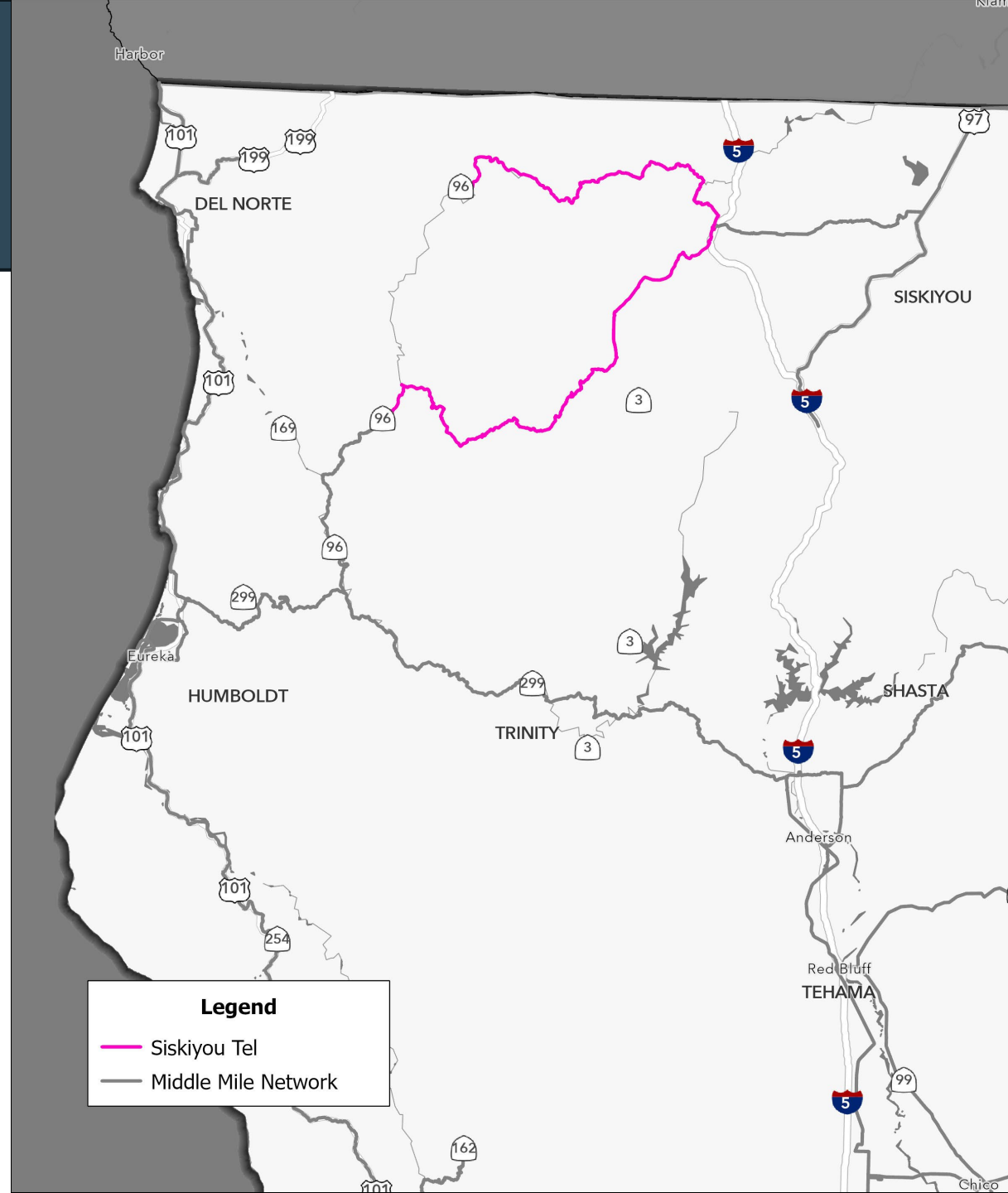


## CDT: Project Update

# Installation Partner

## Siskiyou Tel Joint-Build

- **164 Miles**
- Design and engineering is currently at 96% complete
- Estimated Start: Q2 2025
- Estimated Completion: Q4 2026



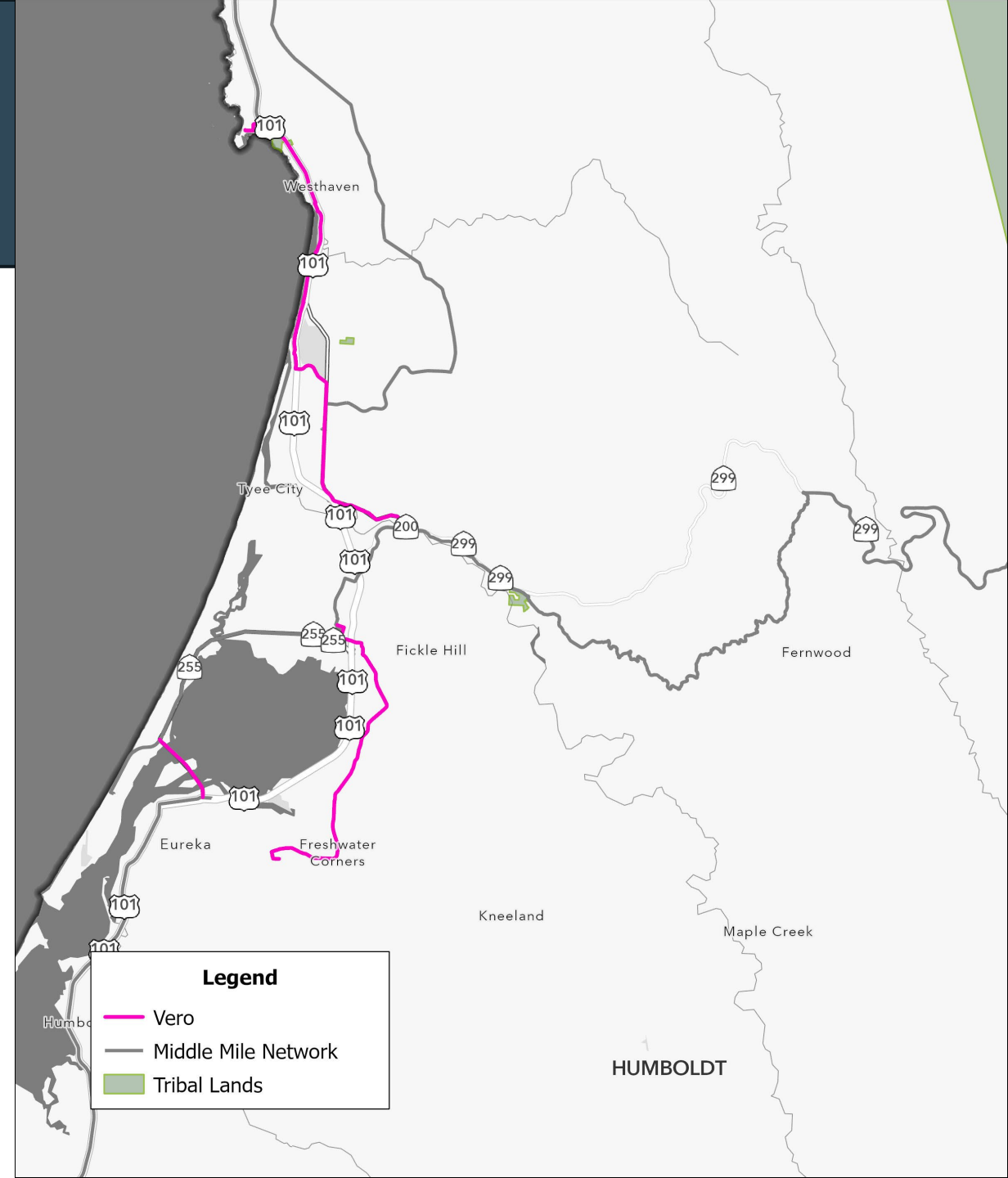
## CDT: Project Update

# 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 90% complete
- Installation has been initiated on 14 of 91 segments
- Estimated Completion: Q4 2026



# Installation Partner

# Digital 395

## Purchase

- **423 Miles**
- Purchase Complete October 31, 2024
- Licenses, deeds, and permits transfer nearing 64% complete
- Hub preparation for MMBI electronics started March 3, 2025
- Estimated Completion: Q4 2025



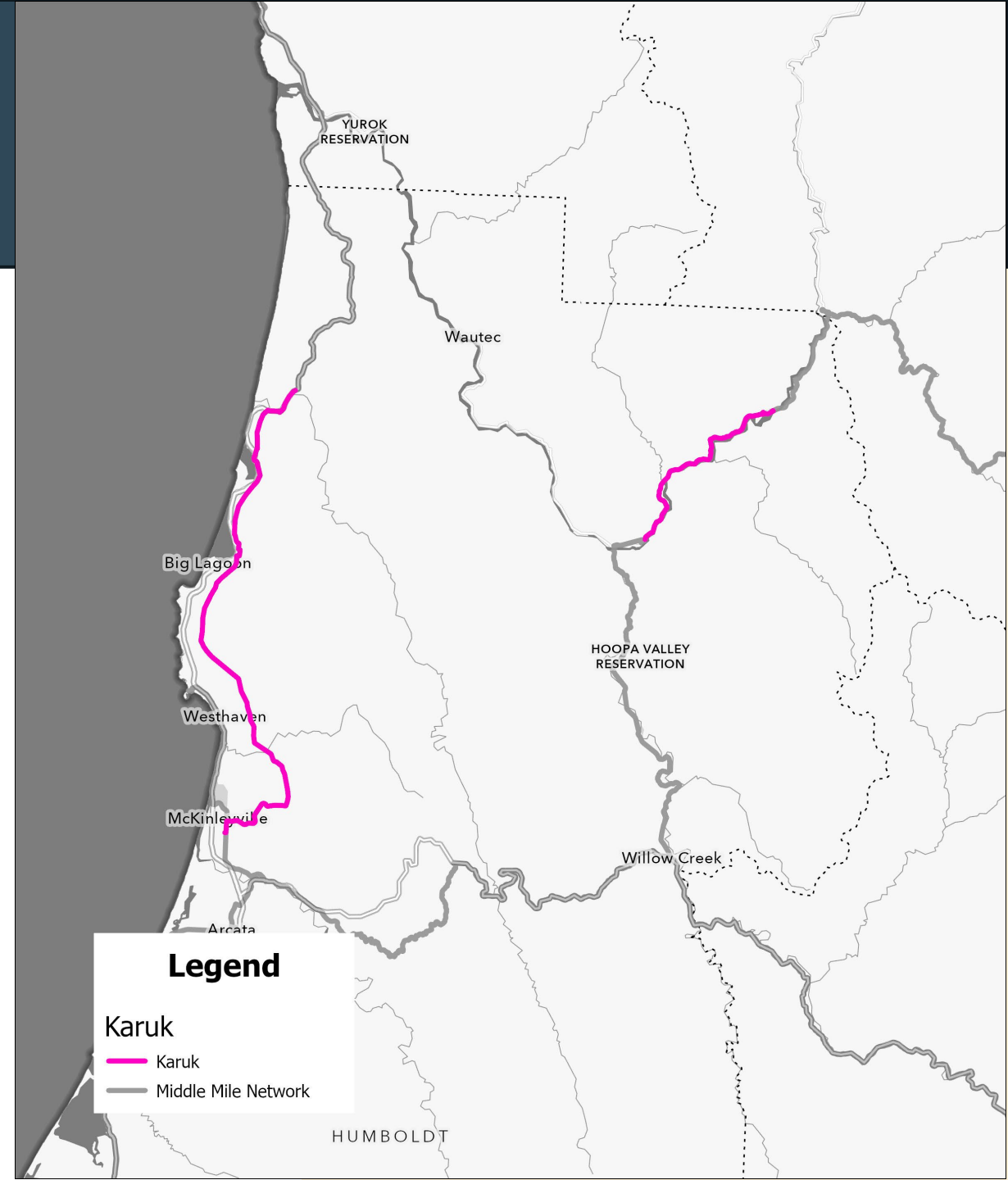
## CDT: Project Update

# Installation Partner

## Karuk

Joint-Build

- **45 Miles**
- Design and Engineering is in early stages
- Estimated Completion: Q4 2026



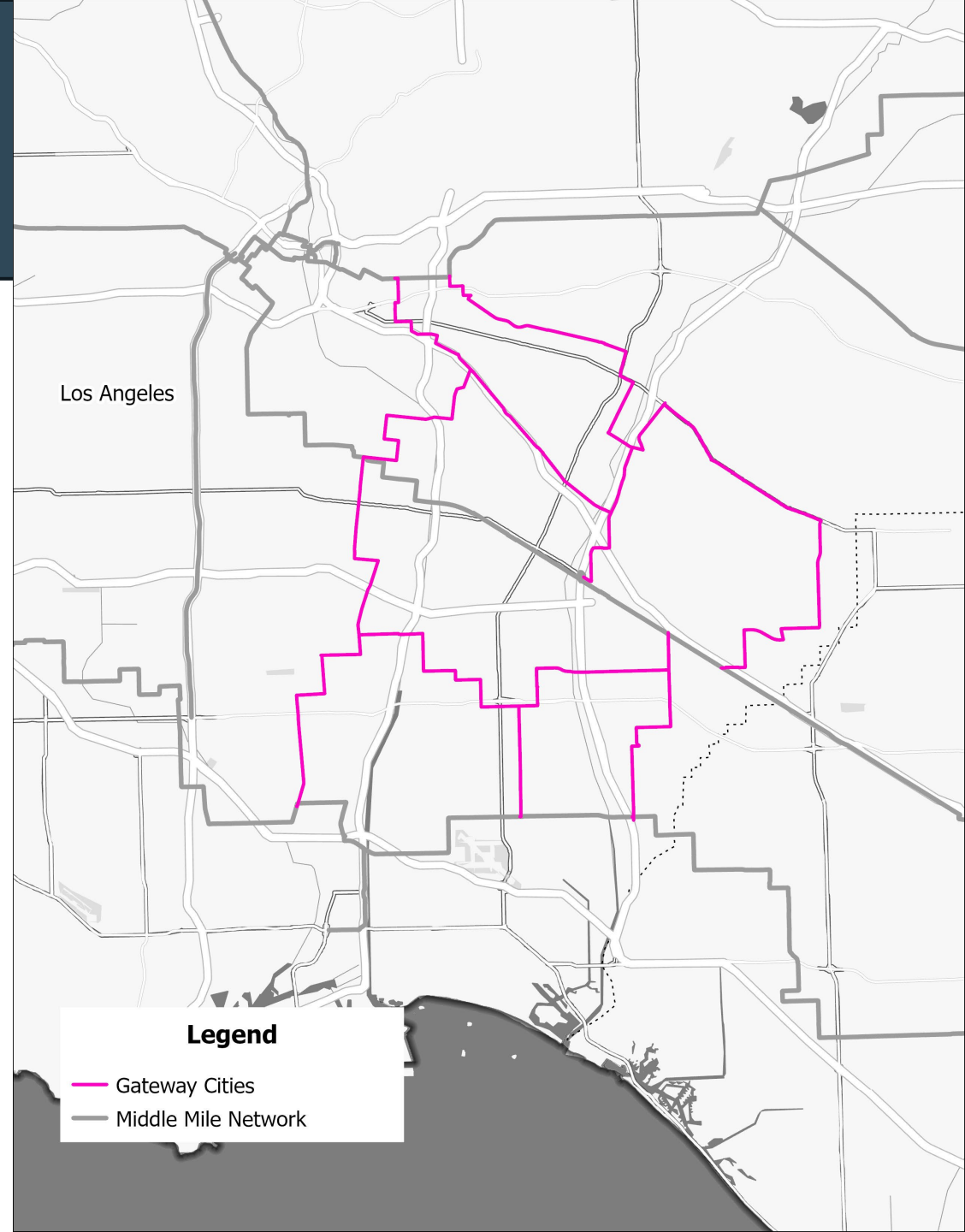
**CDT: Project Update**

# Installation Partner

## Gateway Cities Council of Governments

Joint-Build

- **74 Miles**
- Signed agreement: January 2025
- Project kick-off: February 2025
- Design and engineering: In progress





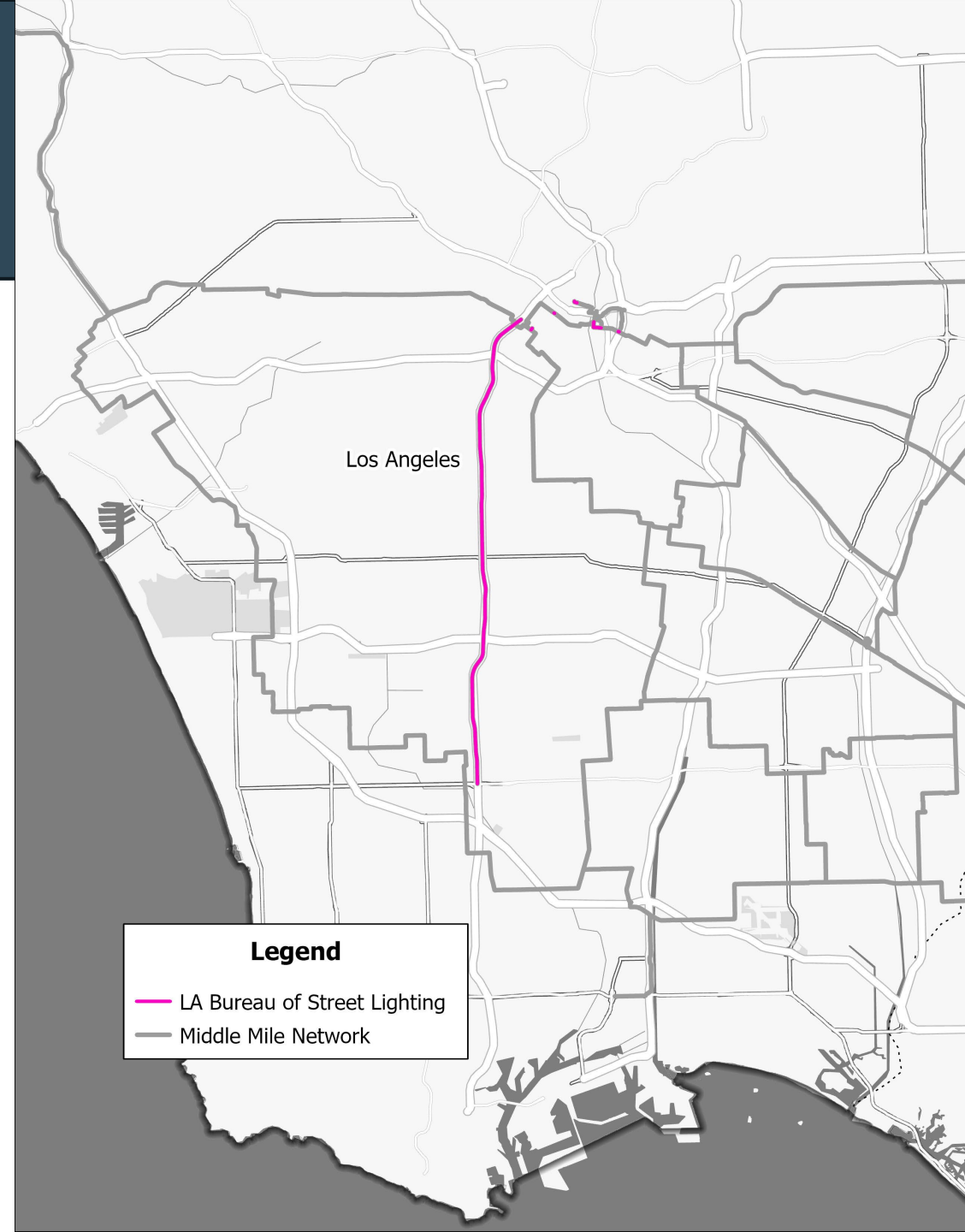
CDT: Project Update

# Installation Partner

## City Los Angeles Bureau of Street Lighting

Joint-Build

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



# RFI2 Construction & Permitting Status

MMBI Partners		Total MMBI Miles	Construction Status for Miles <i>On</i> Caltrans ROW			
			Total	Completed	In Construction	In Preconstruction*
Permitting in Process	Vero	26	8	-	8	-
	Arcadian	1,004	955	-	271	684
	Lumen	1,880	161	53	86	22
	ADF	901	728	2	59	667
	CVIN	2,672	1,637	-	230	1,407
	Hoopa Valley	22	22	-	-	22
	SiskiyouTel	164	97	-	-	97
	YTel	49	36	-	-	36
	Other RFI2 Partners/Anticipated	262	82	-	-	82
Permitting Complete	Zayo	194	185	166	19	-
	Boldyn	81	-	-	-	-
Pre-MMBI	TPN 299	171	115	115	-	-
	D395	423	423	423	-	-
	Caltrans	305	na	na	na	na
Total		8,154	4,448	759	673	3,016

- Includes Design, Engineering, & Permitting

# Government-to-Government Partnerships



**Signed**

## **Joint Builds and Leases**

- City of LA Bureau of Street Lighting (13 miles)



**Negotiating**

## **Joint Builds and Land Leases for Hubs**

- 5 Tribal Communities (21 miles, 3 hubs)
- City of Fort Bragg (4 miles)



# Mackenzie Shea

## **Regional Business Manager**

Middle-Mile Broadband Initiative  
California Department of Technology



## CDT: Project Update

# FFA Interconnections Updates

### CDT's customer solutioning meetings with the grant recipients to

- Agree on specific connection locations
- Identify types of services needed
- Communicate cap pricing for use of MMBI
- Design solutions tailored to the needs of the recipient.

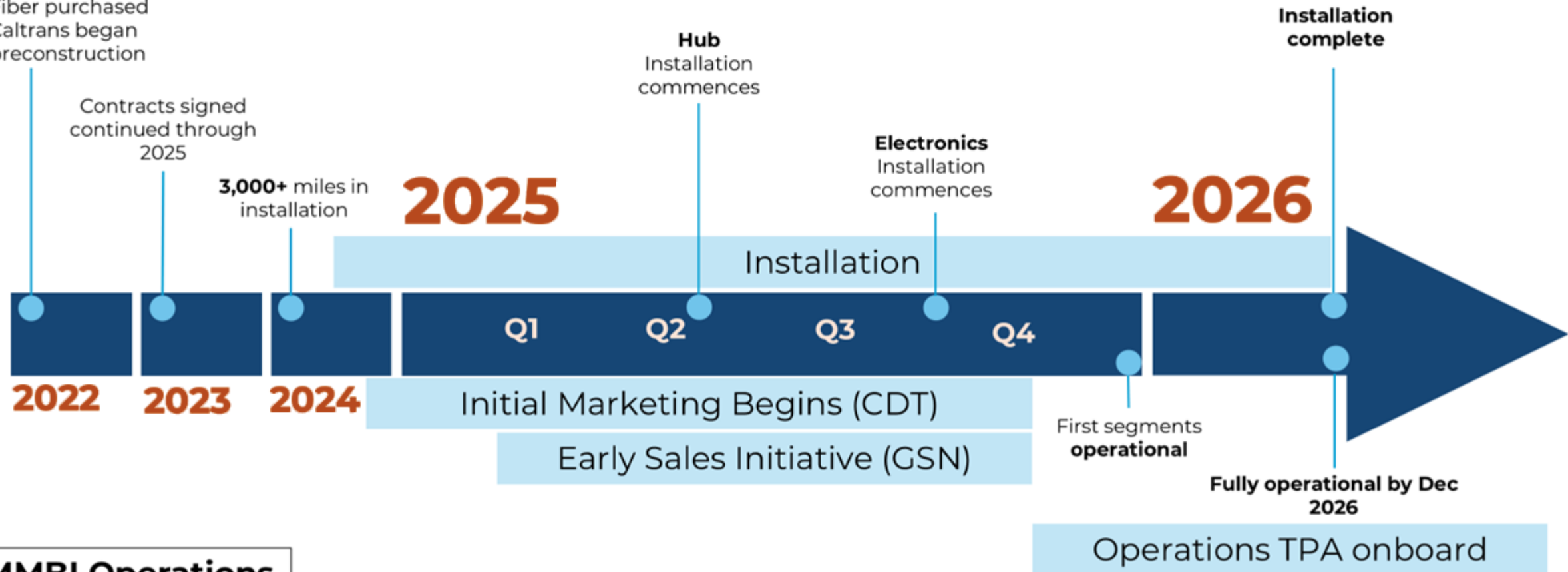


## CDT: Project Update

# 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**





# January Meeting Summary

**January 31 , 2025**

- 79** Invites
- 37** Registrations
- 25** Attendees
- 5** Evaluation Responses

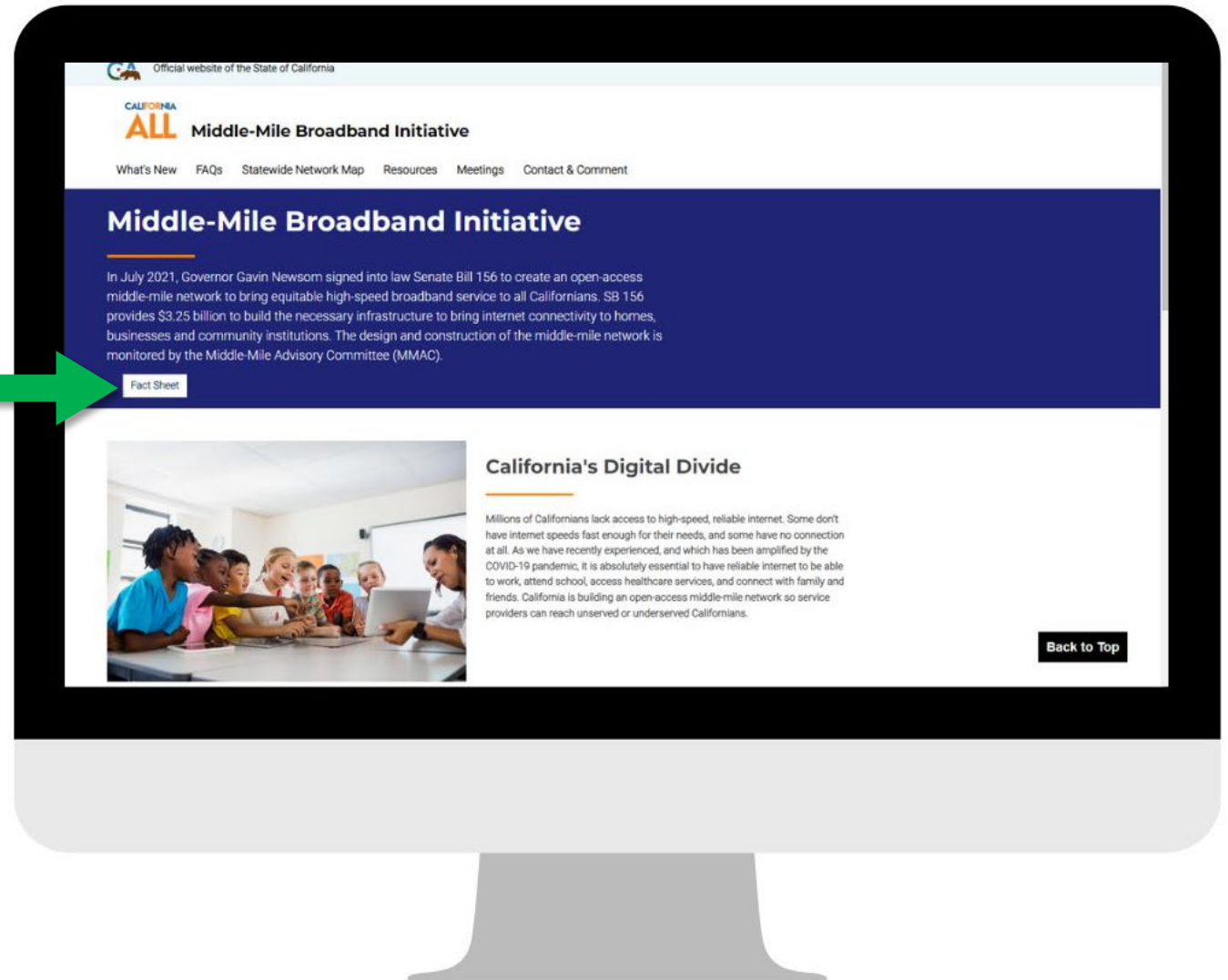
Yes, the updates are very helpful. The grantees need pricing very soon however. And to know when segments will be ready on a more specific basis.

Continue to make different agency leaders and middle management available to answer questions

# Middle-Mile Broadband Initiative Monthly Fact Sheet



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





CALIFORNIA  
**ALL**

Broadband for All

3/31/25

# Middle-Mile Broadband Initiative **FACT SHEET**

## 1. At A Glance



**Pre-Construction:**

**4,546** miles  
(56% of the total miles)

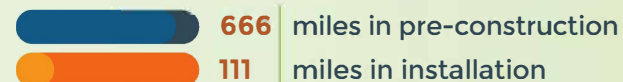


**Installation:**

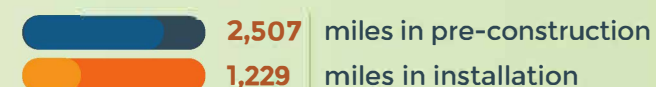
**3,587** miles  
(44% of the total miles)

## 2. Network Development Activities

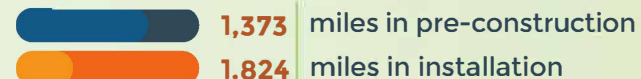
**Caltrans Construction: 777** total miles  
including SR 67 Dig Smart



**IRU/Lease Partners: 3,736** total miles  
Boldyn, CVIN, Lumen, TPN, YTel



**Joint Build Partners: 3,197** total miles  
American Dark Fiber, Arcadian, Hoopa Valley, Lumen, LA BSL, Siskiyou Tel, Vero, Zayo, Karuk Tribe, Gateway Cities Council of Governments, City of Fort Bragg



**Purchase Partner: 423** total miles  
Digital 395



## 3. Spotlight

On March 13, the Fort Bragg City Council approved a joint-build partnership proposal with the California Department of Technology (CDT) for constructing approximately 4 miles of network infrastructure. This route of the network will run north to south along State Route 1. This partnership is expected to help close the region's digital divide, allowing residents and local businesses in Fort Bragg to access significantly faster, more reliable internet services.



## CDT Project Update

# Milestone Events

### May 2025 | Chumash Lands

Santa Ynez Band of Chumash Indians  
2.28 mile joint-build

### June 2025 | Arcata

Vero Fiber  
23.8 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	207 miles
Dig Smart Opportunities	18 miles
Construction Complete	80 miles

\*Data as of 31 March 2025

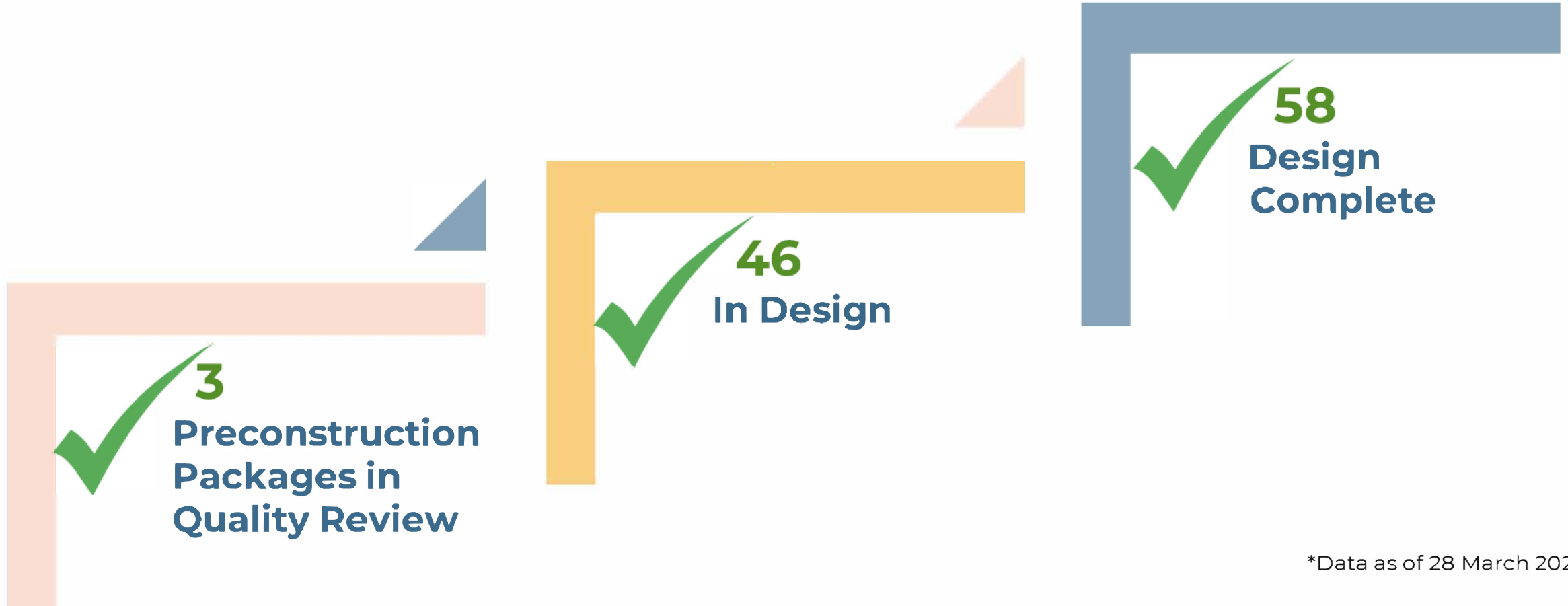




Caltrans Build

# Network Hubs

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



\*Data as of 28 March 2025

# Caltrans Update



**Caltrans Build**



**Partner Builds:  
Encroachment Permits**





## Partner Builds: Caltrans Encroachment Permits

# MMBN Approval Process Modifications

### **Caltrans Modifications for MMBN Encroachment Permits**

- All applicants are considered telecom utility
- All applications submitted are accepted for processing, regardless of whether complete or incomplete
- Caltrans works with applicants to ensure clarity on required components and supports them through completion and issuance of encroachment permit



**Partner Builds: Caltrans Encroachment Permits**

# MMBN Approval Process Modifications

## **SB 156 Benefits**

- CEQA Statutory Exemption
- Programmatic approaches and approvals as an outcome of the Caltrans Build projects



## Partner Builds: Caltrans Encroachment Permits

# MMBN Approval Process Modifications

### Caltrans Modifications for MMBN Encroachment Permits

- All applicants are considered telecom utility
- All applications submitted are accepted for processing, regardless of whether complete or incomplete
- Caltrans works with applicant to ensure clarity on required components and supports them through completion and issuance of encroachment permit

### SB 156 Benefits

- CEQA Statutory Exemption
- Programmatic approaches and approvals as an outcome of the Caltrans Build projects



## Partner Builds: Caltrans Encroachment Permits

# MMBN Encroachment Permits Status

**CDT Partners Submitted Applications for  
1,195 miles (of a total estimated 3,910 miles)**



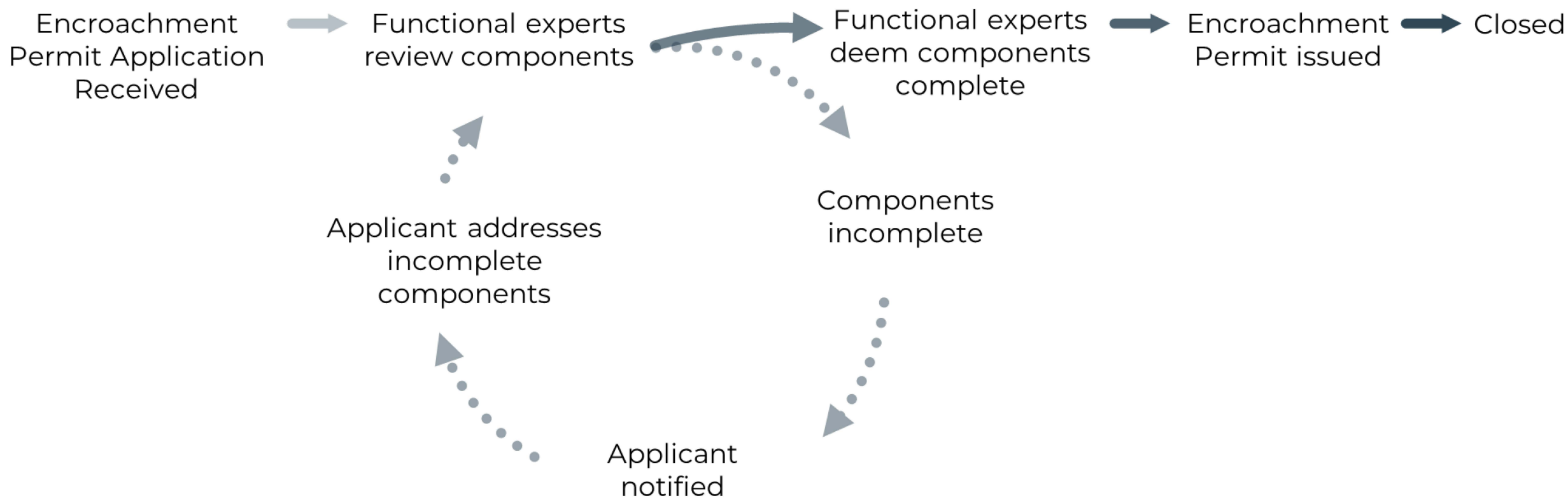
\* Data as of 4 April 2025

\*\* Does not include Digital 395 and TPN 299



## Partner Builds: Caltrans Encroachment Permits

# MMBN Encroachment Permit Process







**Partner Builds: Caltrans Encroachment Permits**

# MMBN Encroachment Permit Process

**1,195 miles (total)**

**Encroachment  
Permit Application  
Received**

\*Data as of 4 April 2025



**Partner Builds: Caltrans Encroachment Permits**

# MMBN Encroachment Permit Process

**853 miles**

Encroachment  
Permit Application  
Received

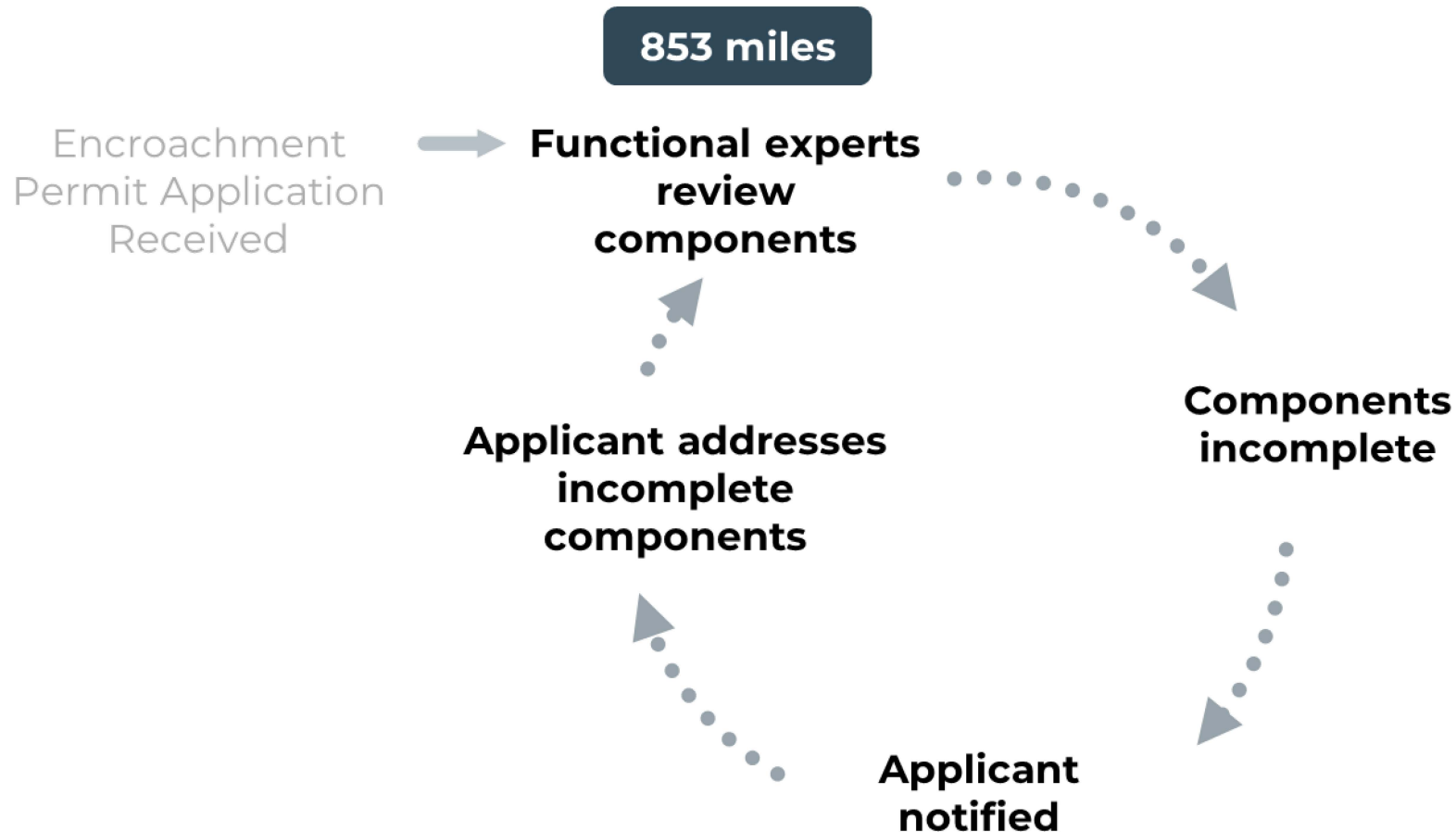


**Functional experts  
review  
components**



## Partner Builds: Caltrans Encroachment Permits

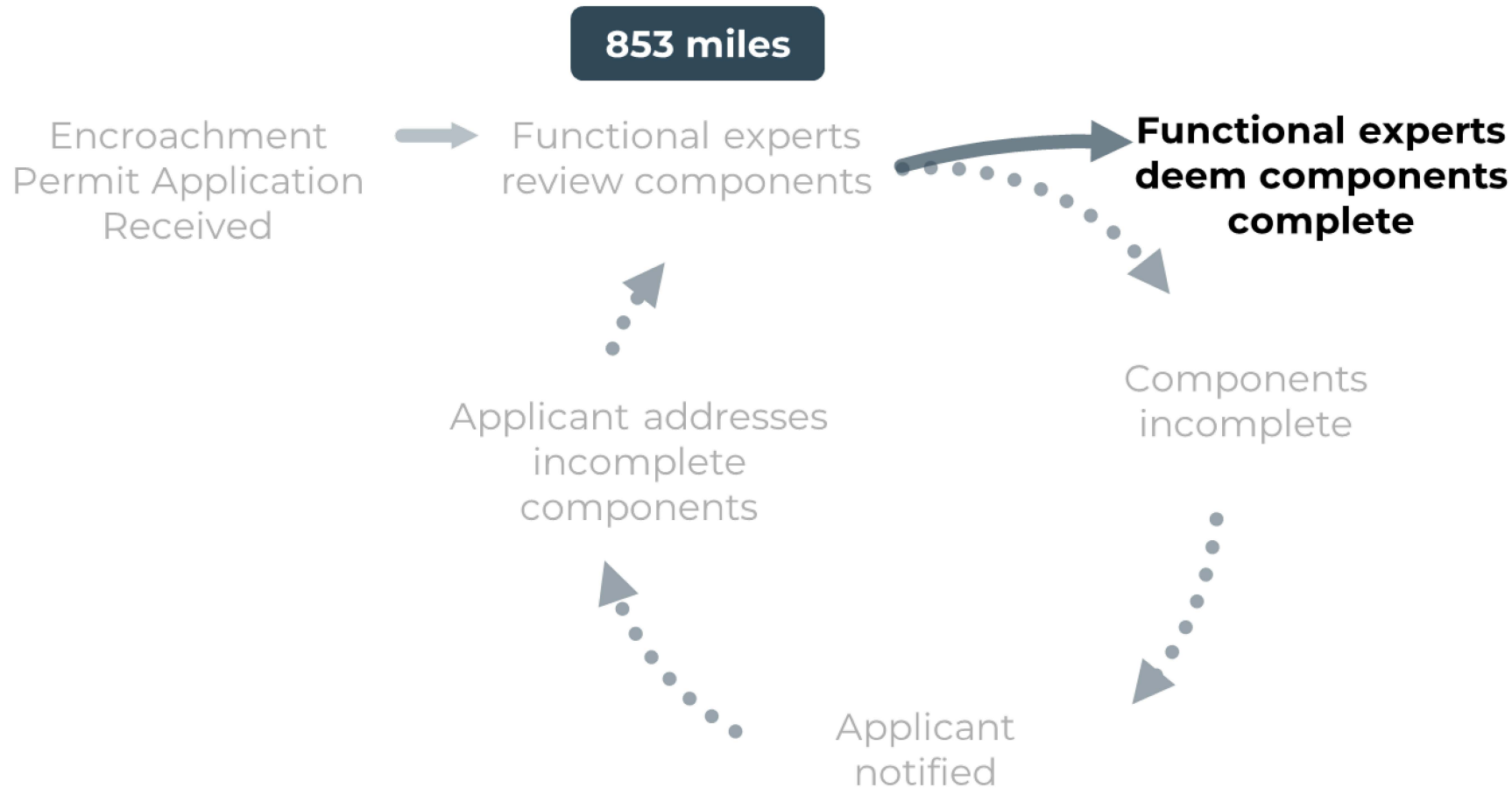
# MMBN Encroachment Permit Process





## Partner Builds: Caltrans Encroachment Permits

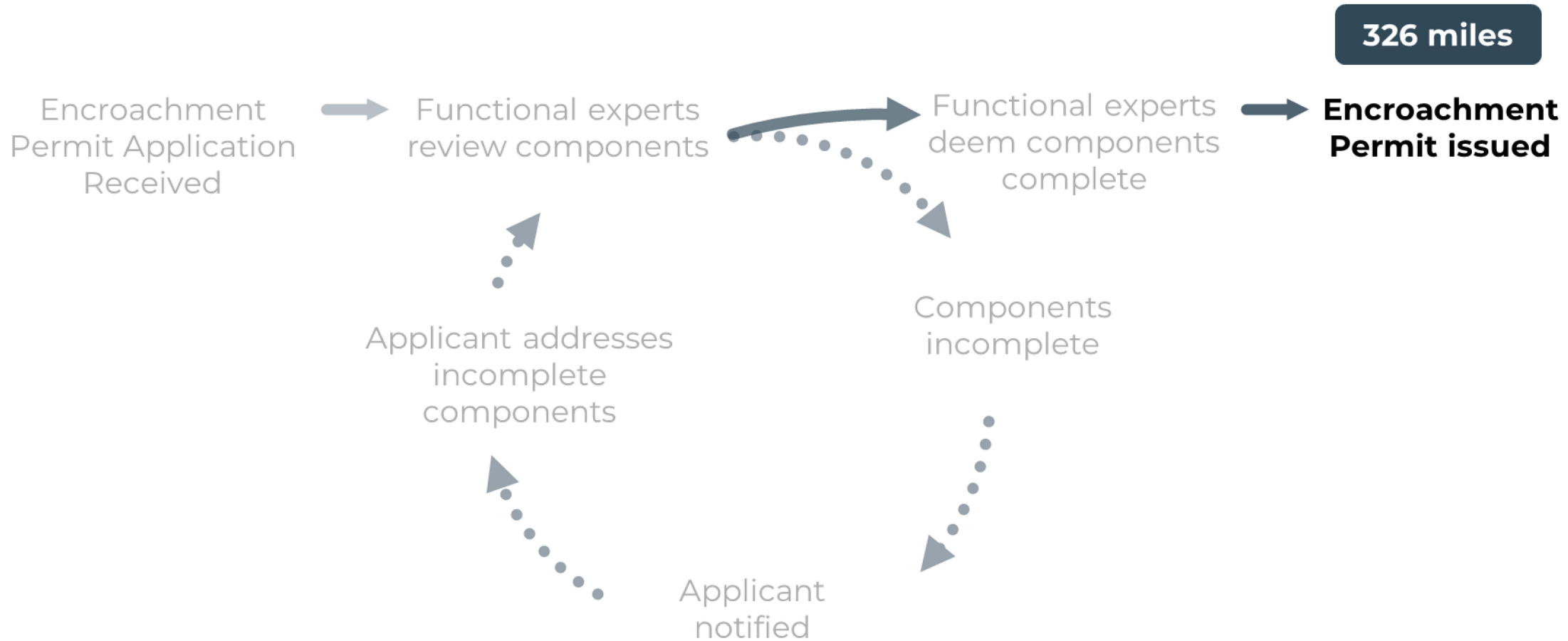
# MMBN Encroachment Permit Process





## Partner Builds: Caltrans Encroachment Permits

# MMBN Encroachment Permit Process



\* Data as of 4 April 2025

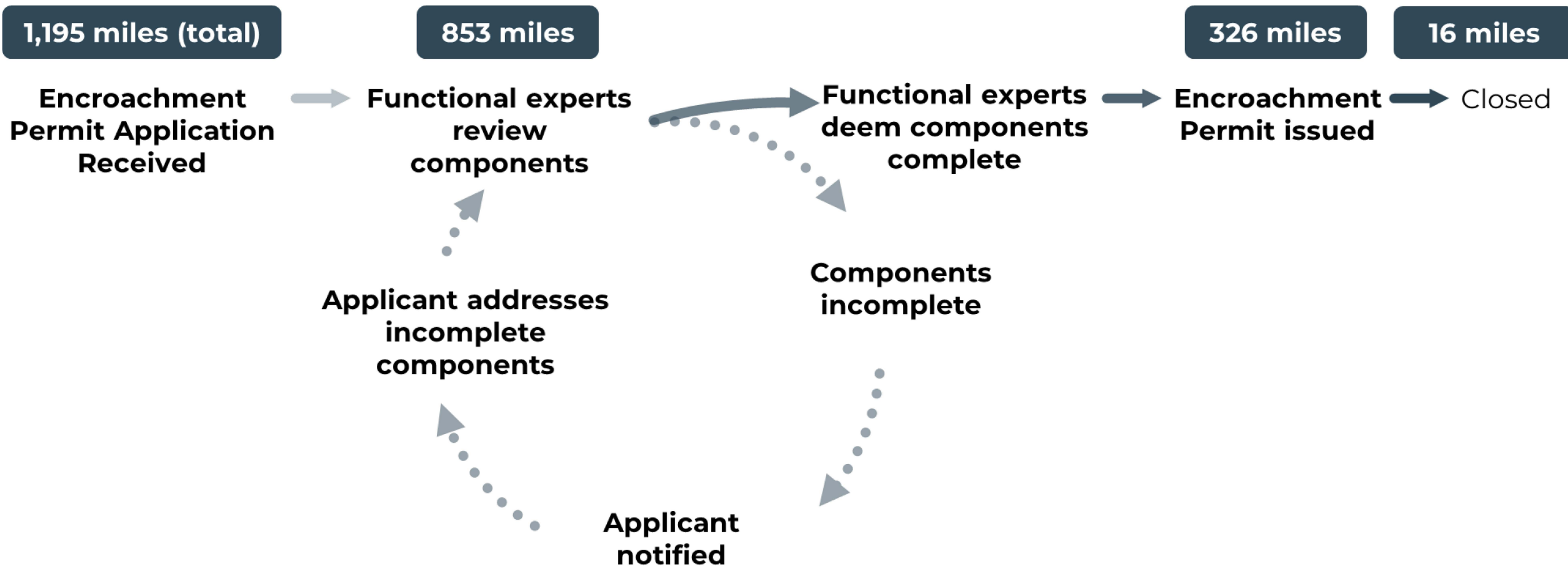
\*\* Does not include Digital 395 and TPN 299





## Partner Builds: Caltrans Encroachment Permits

# MMBN Encroachment Permit Process





## Partner Builds: Caltrans Encroachment Permits

# Caltrans Support of CDT Partner Builds

### 4-hour pre-application consultation

- Opportunity for applicant and Caltrans team to meet and coordinate

### Multiple avenues of communication established

- Caltrans MMBN Strike Team
- Weekly Q&A session
- Regularly scheduled standing meetings with individual partners
- Dedicated MMBN email address

### Caltrans provided tools & resources to aid/support partners

- Caltrans Build programmatic approaches (environmental and right of way) available
- Created MMBN environmental checklist
- Provided examples of NEPA/CEQA documentation
- Shared with partners studies and reports completed by Caltrans



# Erik Hunsinger

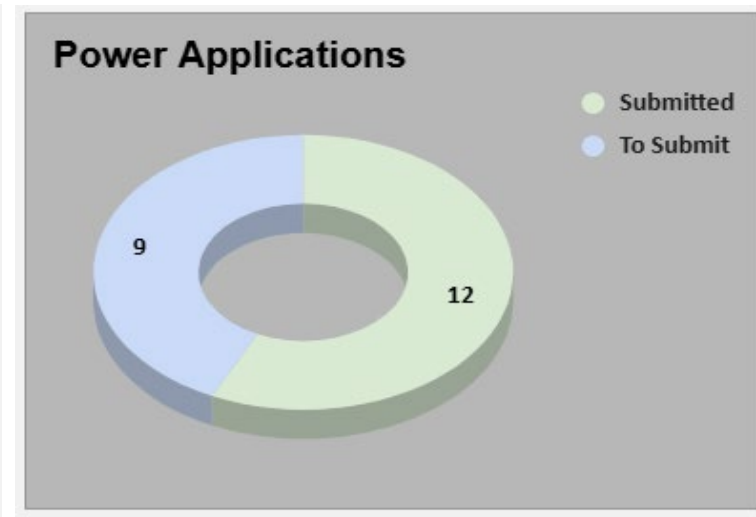
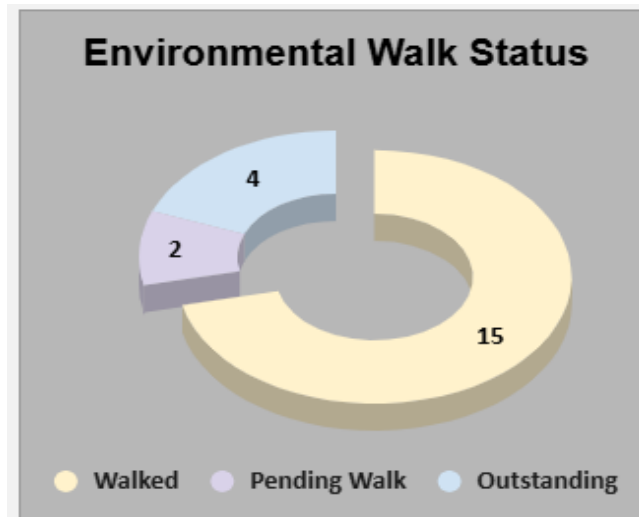
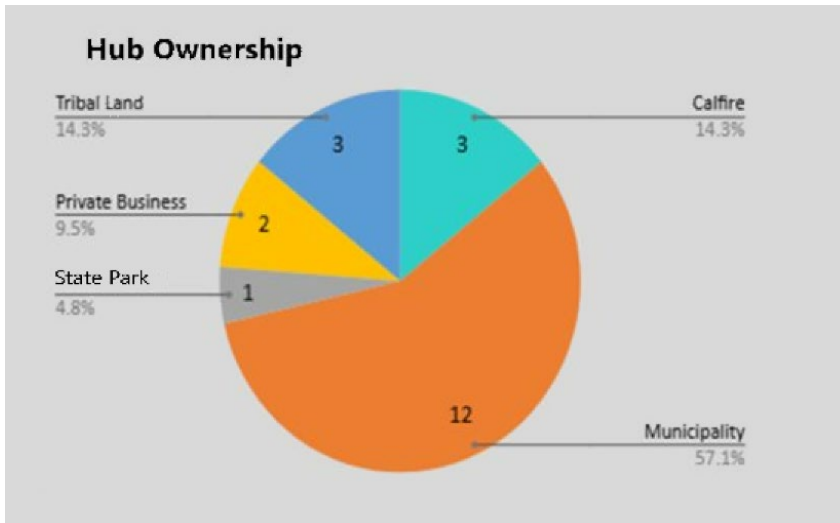
**PRESIDENT & CHIEF OPERATING OFFICER**

GoldenStateNet

## CDT Project Update

# Off ROW Hub Deployment

Pending CalFire input and have identified alternatives



Ongoing Negotiations:

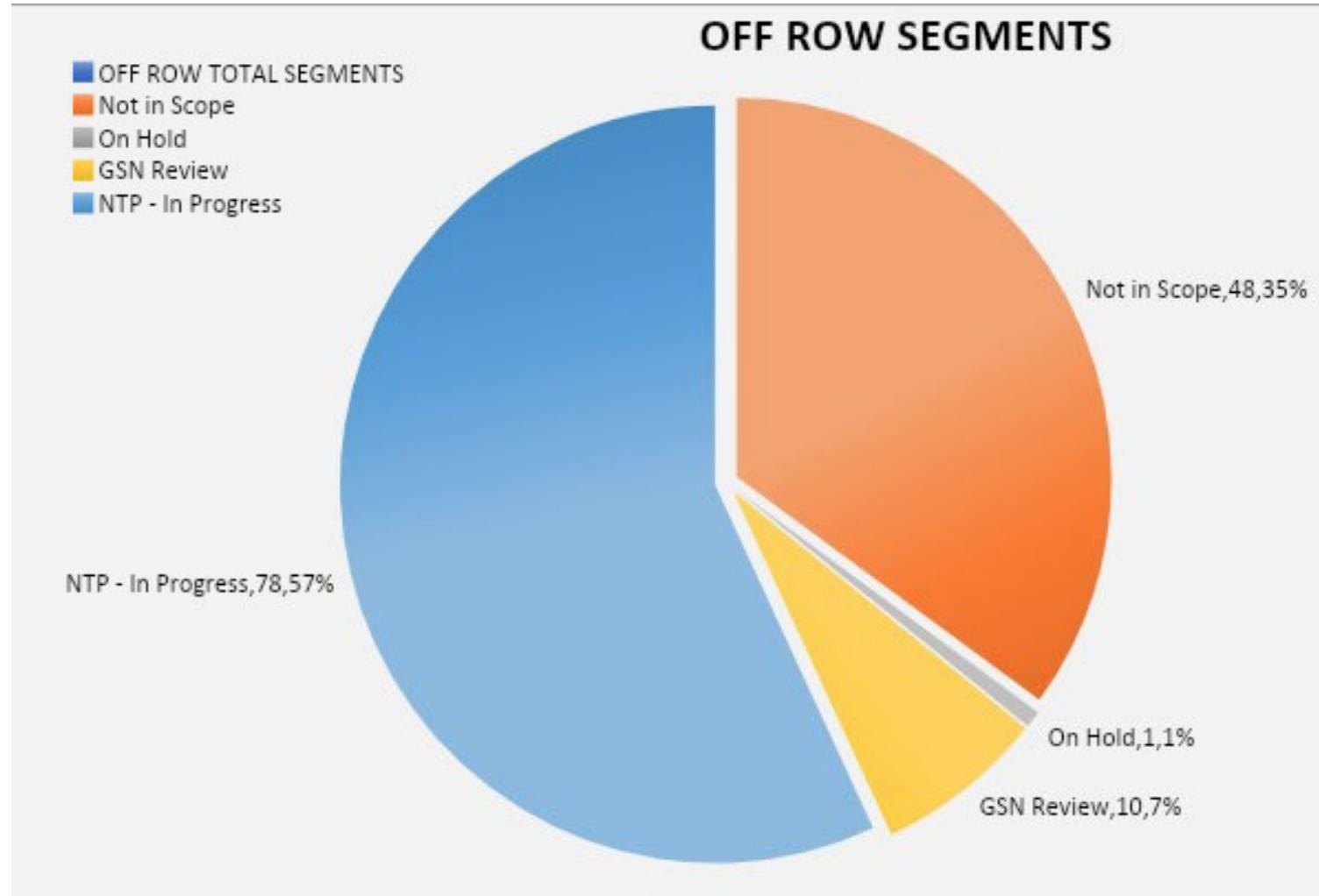
- Coyote Valley
- 29 Palms
- Quechan

2/3 of the Hubs:

- Passed environmental review
- Power applications submitted

# Off ROW Network Construction

- **171** segments to connect all routes
- **54** segments designed and submitting for permitting
- **28** segments in review optimizing plans
- **3** segments need CalFire permission for hubs





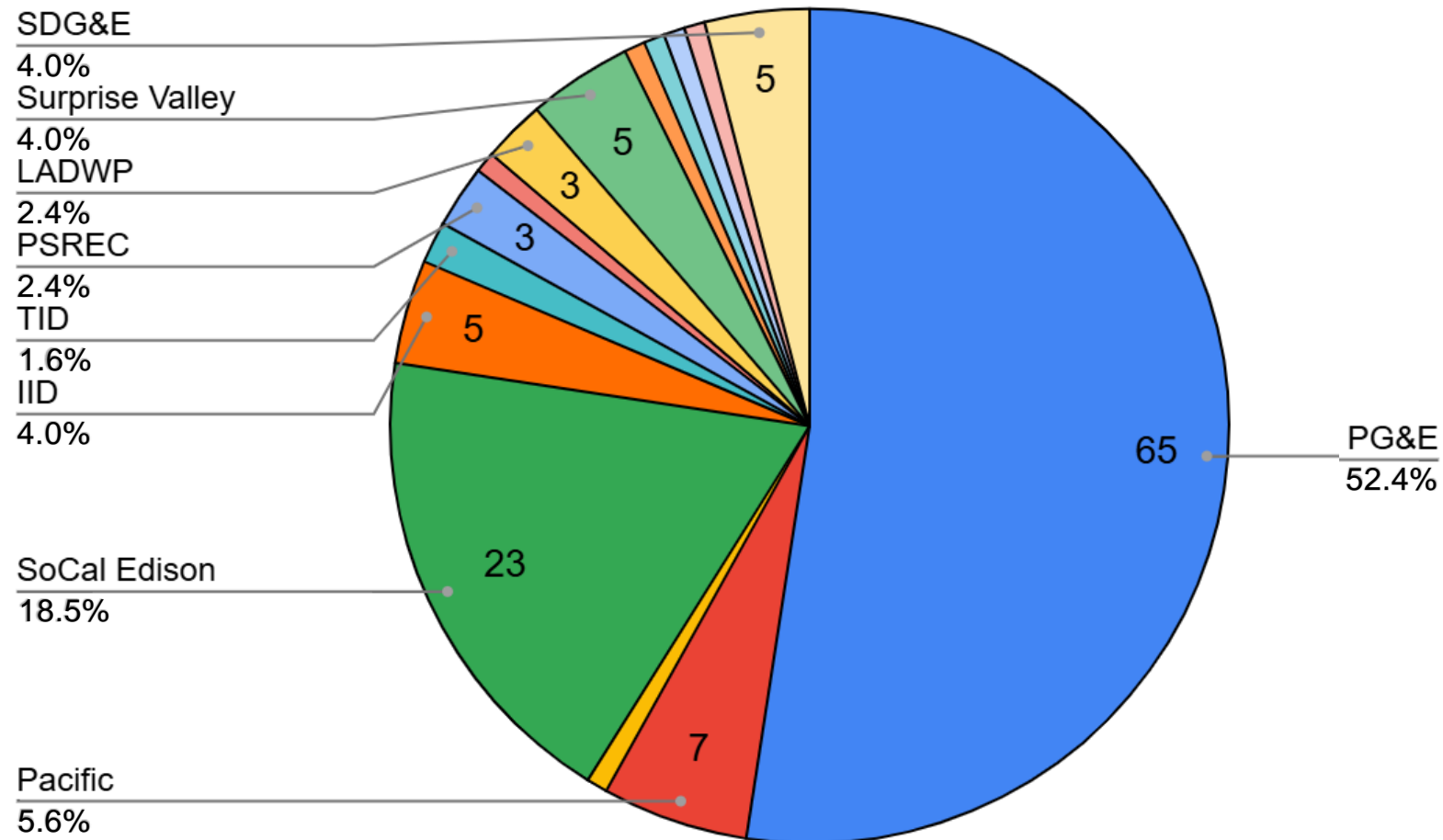
## CDT Project Update

# Hub Power Status

### 128 Power Connections Required

- **27** Connections are pending final Hub design
- **39** are recently submitted and in review by power utility
- **27** are in engineering and design with power utility
- **35** are in pre-construction with power utility

### Count By Company





# Maria Ellis

**Deputy Director, Broadband**

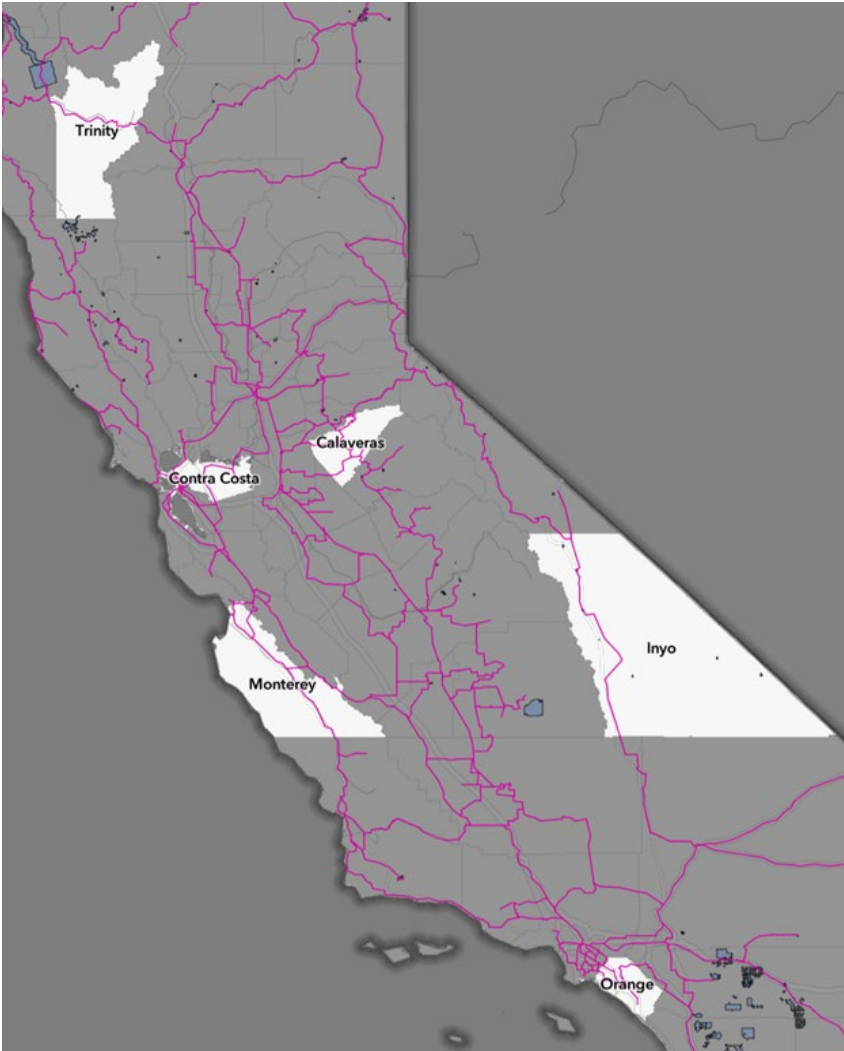
California Public Utilities Commission

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?	Application window is now open.	Infrastructure, Adoption, Public Housing, Line Extension and Tribal Tech Assistance application cycles in 2025.	Awarded	Limited second round now underway.

# Last Mile Federal Funding Account



## Round 1

### 113 projects across California

- **\$1.11 billion** awarded in **52** counties benefitting **2 million** Californians.
- Grants include **9 Tribes** and **42 public** entities
- **73** grants serve majority **disadvantaged and low-income** communities

## Round 2

- Counties without round 1 awards: **Calaveras, Contra Costa, Inyo, Monterey, Orange, and Trinity**
- Map and data published late February 2025
- Accepting application since April 15, 2025

## CPUC Last Mile Update

# Broadband Equity Access Deployment Update

\*Congress and the Administration are considering changes to the BEAD Program that may impact elements of this timeline. This provisional schedule is subject to change.

<b>Publication of Final Map</b>	<b>February 2025</b>	Release of the NTIA-approved, post-Challenge Process map, identifying all BEAD-eligible Broadband Serviceable Locations (BSLs) in California by FCC Location ID.
<b>GMS Development</b>	<b>Start:</b> December 23 <b>End:</b> March 25	The CPUC implements the Grants Management System (GMS) to enable receipt of BEAD applications and prequalification materials.
<b>Prequalification Application</b>	<b>Start:</b> March 25 <b>End:</b> April 24	Prospective applicants submit basic organizational and administrative information to demonstrate their qualifications to participate in the BEAD Subgrantee Selection Process.
<b>Project Application</b>	<b>Start:</b> April 2 <b>End:</b> May 2	Prospective applicants provide project-specific information.
<b>Subgrantee Selection Process and Preparation of Final Proposal and Resolution</b>	<b>Start:</b> May 3 <b>End:</b> August 19	Applications undergo a competitive, fair, transparent, and open scoring process as outlined in the State's Initial Proposal Volume 2.
<b>Public Comment on Final Proposal and Resolution</b>	<b>Start:</b> August 20 <b>End:</b> September 15	The draft Final Proposal will be published for public comment and public awareness prior to going before the Commission for vote.
<b>Resolution Considered by Commission</b>	<b>September 18</b>	The CPUC may take action on the Draft Resolution and Final Proposal at its public meeting.
<b>Submit Final Proposal to NTIA</b>	<b>Start:</b> September 19 <b>End:</b> October 2	The CPUC submits the Final Proposal to the NTIA for review and approval.



# PUBLIC COMMENTS

**Sign up:**  
Broadband for All Newsletter



**Next MMAC Meeting:**  
**Friday, July 18<sup>th</sup>**

**MiddleMile@state.ca.gov**

**THANK YOU!**

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

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

**[MiddleMile@state.ca.gov](mailto:MiddleMile@state.ca.gov)**