

MMBI Regional Tribal Engagement Series

(Session 1: Districts 7, 8, 11 & 12)

January 11, 2023







AGENDA

- Welcome & Introduction from Leadership
- Broadband for All Overview
- MMBI Overview
 - Purpose
 - Network
- MMBI Project Delivery
 - Design Options
 - Strategies for Avoidance
- Environmental & Cultural Focus
 - Coordination & Tools for Communication
 - Project Level Consultations
- Last Mile Connections Overview
- Q&A + Final Discussion
 - Closing Remarks

Welcome & Introductions



Christina Snider Tribal Affairs Secretary Governor's Office of Tribal Affairs



Liana Bailey-Crimmins State CIO and Director California Department of Technology



Mike Keever Chief Deputy Director California Department of Transportation



Rachel Peterson Executive Director California Public Utilities Commission









Caltrans District Executives



Ron Kosinski

District 7 Deputy Director Environmental Analysis California Department of Transportation

Rebecca Guirado

District 8 Director (Acting) California Department of Transportation

Gustavo Dallarda

District 11 Director California Department of Transportation

Chris Flynn

District 12 Deputy Director Environmental Analysis California Department of Transportation

Scott Adams

Deputy Director Broadband and Digital Literacy California Department of Technology

BROADBAND FOR ALL

"The ability to access and use broadband is the difference between being able to fully engage in life and being cut off." **BROADBAND FOR ALL**

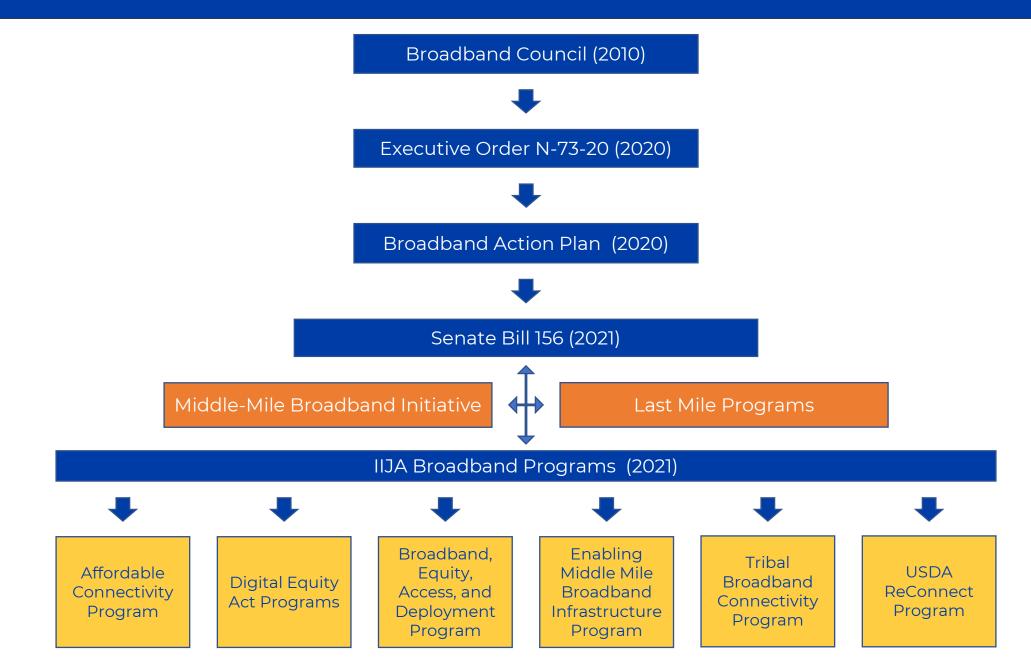


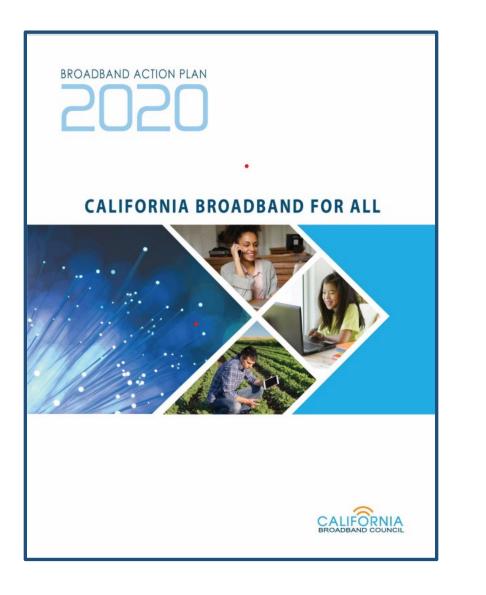
AFFORDABILITY

ADOPTION

DIGITAL LITERACY & INCLUSION

BROADBAND FOR ALL





Goal 1: Have high-performance broadband available at home, schools, libraries, and businesses.

Goal 2: Have access to affordable broadband and necessary devices.

Goal 3: Have access to training and support to enable digital inclusion.

The IIJA invests roughly \$65 billion to support broadband deployment and adoption and promote digital equity in states

Broadband Equity, Access, and Deployment (**BEAD**)

\$42.45B

Digital Equity Planning, Capacity and Competitive Grants

\$2.75B

IIJA Statute: https://www.congress.gov/117/plaws/publ58/PLAW-117publ58.pdf

SDEP APPROACH: PLANNING COMPONENTS

The planning process will consist of five components:

- 1. Statewide Planning Group
- 2. Outcome Area Working Groups
- 3. California Digital Equity Survey(s)
- 4. Local and Regional Outreach Events
- 5. Statewide Public Engagement



SDEP Approach: Statewide Public Engagement

- Please share how we can partner and align efforts
- We look forward to working with you!

<u>State Digital Equity Plan Development</u> <u>Process | Broadband for All (ca.gov)</u>

Participating in the Planning Process

If you would like to participate in California's SDEP planning process, please provide the following information:

lame *	
irat	Last

Your role *

O I am an individual resident

I am part of a group/organization

Email *

Phone number

County*

City *

ZIP code *

How would you like to participate in the SDEP process

Attend virtual statewide planning group meetings

Attend virtual outcome area working group meetings

Attend local/regional in-person planning event

Promote/distribute Digital Equity Survey(s) through my network

Not listed

Submit

Mark Monroe

Deputy Director

Middle-Mile Broadband Initiative California Department of Technology

Statewide 10,000 Map



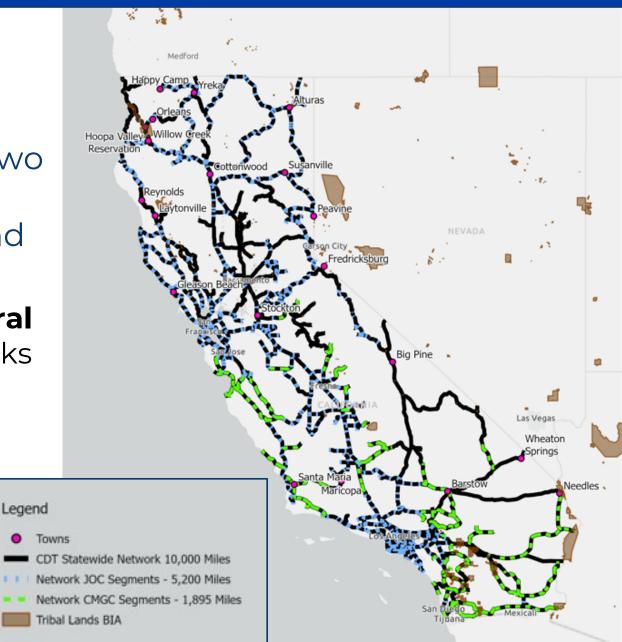


CDT MMBI Summary JOC & CMGC Map

Construction Contracting Approaches

The network map was divided into two categories, based on anticipated difficulty in permitting and other land ownership and geography issues.

- The Construction Manager General Contractor (CMGC) approach works best for more complex segments
- Job Order Contracting (JOC) approach works best for less complex segments



MMBI Summary Contracts



Major Contract Solicitations

1. October 11, 2022, released an RFI² solicitation for pricing for <u>alternatives to State construction</u>:

(Closed 12/30/22)

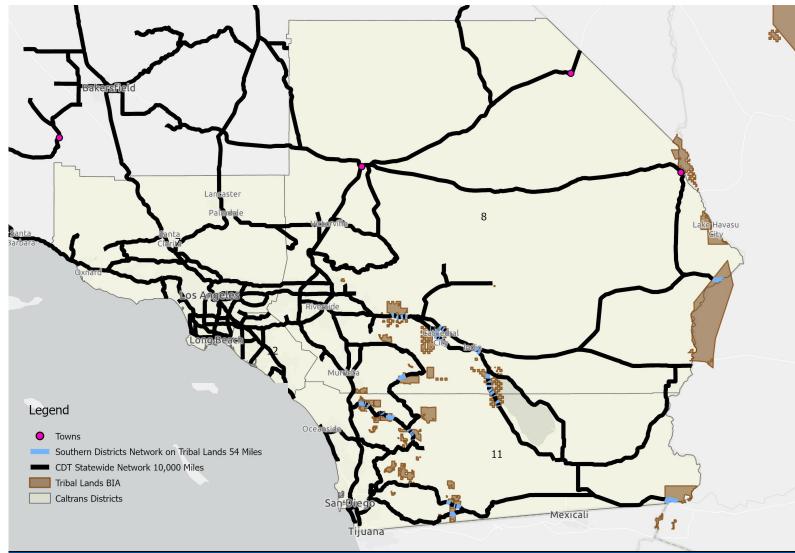
- IRU/leases: leases of existing fiber infrastructure as an alternative to the State constructing its own.
- Joint builds/Purchases: Partnering with other third parties to get State owned infrastructure without the state building it directly.
- **Colocation**: Any network requires servers and computing hardware. Colocation will allow the state to rent space for this equipment at a third-party provider's data center facility as an alternative to the State building its own facilities.
- 2. October 14, 2022, released Job Order Contracts (JOC) for construction of 5,100 miles (Due 1/12/23)
- 3. Early <u>CMGC contracts</u> in districts totaling 1,700 miles of construction (*Multiple due dates: 12/29/22 - 1/26/23*)

MMBI Summary Tribal Reservation Miles in Districts 7, 8, 11, 12

Total Miles – 54.4

Tribal Reservation Miles

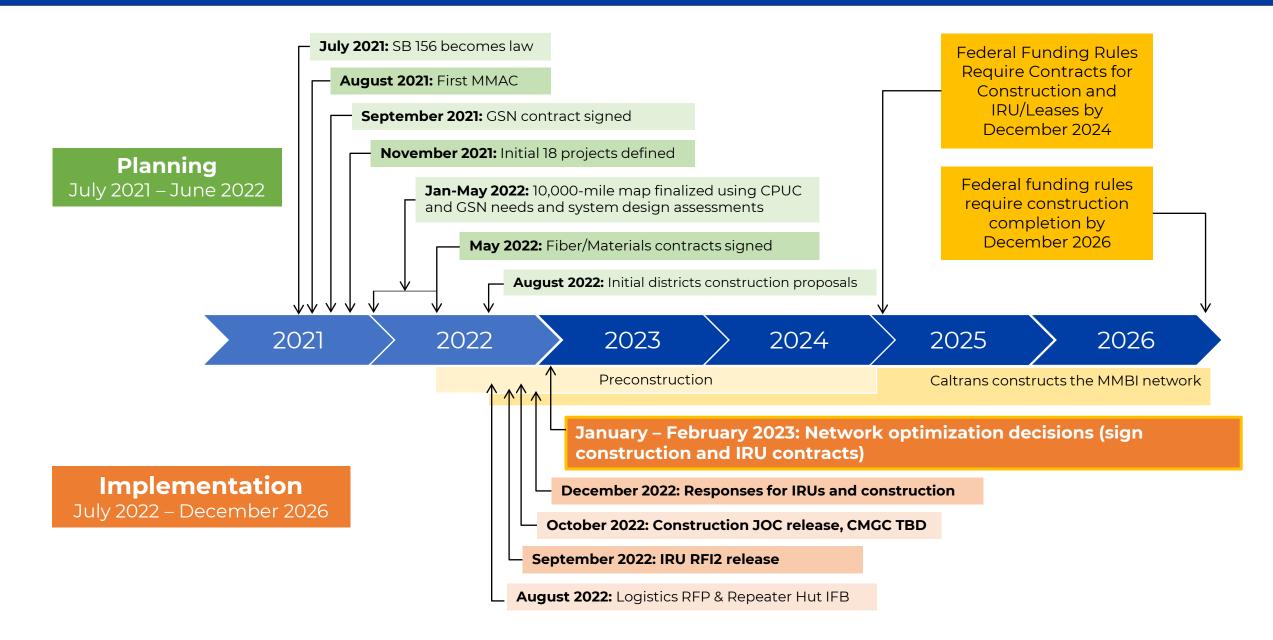
- District 7 0.0
- District 8 26.66
- District 11 27.79
- District 12 0.0



MMBI Network and Tribal Lands Last Updated: 12/23/2022



Project Recap Timeline



Comments or Questions?



Janice Benton

Assistant Deputy Director Middle-Mile Broadband Initiative California Department of Transportation

Hardeep Takhar

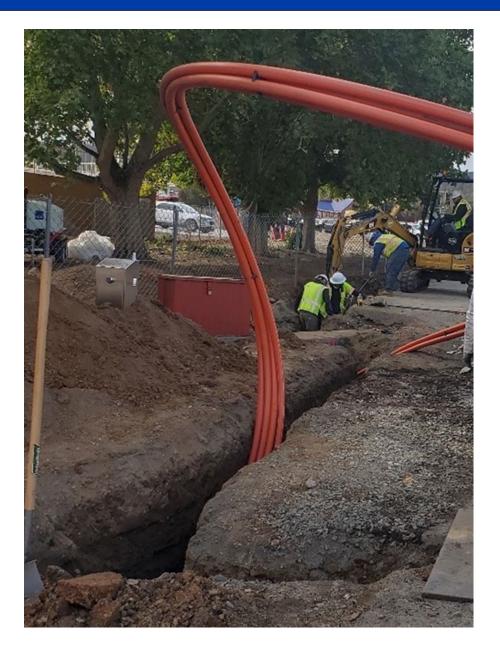
MMBN Program Director Middle-Mile Broadband Initiative California Department of Transportation

MMBI Project Delivery

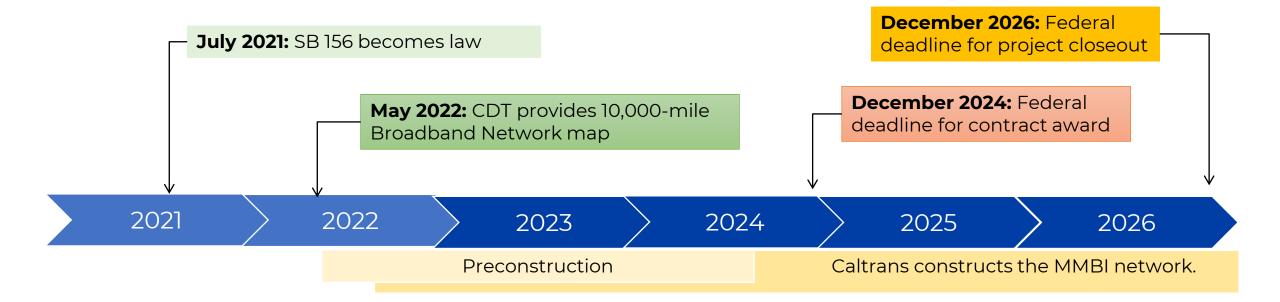
Building the Broadband Network

MMBI Project Delivery Building the Network





Delivery Timeline



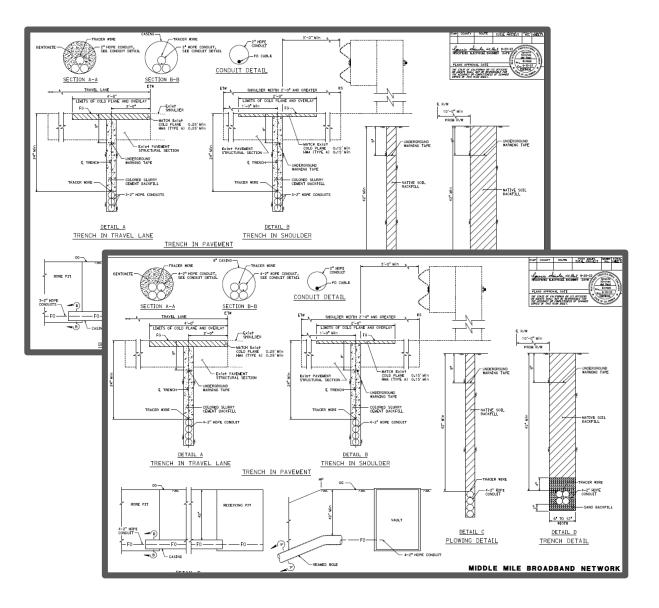
Delivery Strategy



MMBI Project Delivery

Design Details

- 3 Conduit Option
- 4 Conduit Option
- Vaults
- Network Hubs



Plowing





Description

- Vibratory plow using vibratory blades
- Narrow slit in soil as plow moves quickly
- Effortless cleanup
- Minimal soil disturbance
- Minimal soil handling

Application

- Fast installation in soil surface
- Cost-effective installation method
- Tight schedule
- Long-haul work in open areas
- Uneven, wet or dry terrain
- Single pass
- Not applicable to roadway or concrete surfaces

Operation

- Pre-planning
- Blue staking
- Cable installation
- Buried warning tape
- Site Restoration
- Post installation inspection

MMBI Project Delivery Delivery Methods

Trenching

Trenching (Traditional)

- Common for long, cross-country installations
- May effect traffic movement
- Slower than plowing
- More controlled cable installation

Trenching in Pavement

- Narrow trenches (3" to 6") in pavement
- Overcomes width and depth limitations encountered with microtrenching
- Suitable for locations with significant environmental and right-of way restrictions.





MMBI Project Delivery Delivery Methods

Microtrenching

What is Microtrenching?

- Cutting asphalt or concrete.
- Generally 2.0" and narrower.
- Depths below the upper layer but shallower than most utilities.
- Uses vacuum excavation unit to simultaneously remove spoils.
- Primarily used to install fiber

Mainline Microtrencher

- Depth: 0" 26"
- Width: 0.375" 3.0
- Traversing offset
- Tilts and Swings
- Floating housing follows ground contour with constant pressure



Horizontal Directional Drilling





Application

- Most terrains
- Long haul
- Rocky ground conditions
- Overpass, embankments, side hill, river crossings

Operation

- Pre-planning
- Entrance pit
- Exit pit
- Pilot hole pass
- Reaming pass
- Swab pass
- Site Restoration

Site Pre-Planning

- Entry site
- Exit site
- Staging Site
- Stringing Site

Drilling Entry Area

- Entry Pad
- Silt fence
- Sound Curtain for noise mitigation

MMBI Project Delivery Delivery Methods





Horizontal Directional Drilling (Continued)

Trenchless Installation

Stitch boring is a cost-effective trenchless alternative, utilizing pneumatic piercing tools to shoot from one small pit to the next.

Typical Equipment

Drill rig Drill pipe skid Excavator Entry pit Separation Plan Holding tanks Fluid pumps Control cabin

Materials

Drill pipe Drill bit Bentonite clay

MMBI Project Delivery Delivery Methods





Trenchless Installation

Application

- Cross roadways and railroads when casing is required
- Horizontal Directional Drilling not feasible

Operation

- Pre-planning
- Entrance pit
- Exit pit
- Pilot hole pass
- Reaming pass
- Swab pass
- Pipe Casing
- Site Restoration

Site Pre-Planning

- Entry site
- Exit site
- Staging Site
- Stringing Site
- Welding site

Q&A Session



Kathryn Rose

Office Chief HQ Cultural Studies Office California Department of Transportation

Sarah Allred

Statewide Native American Coordinator HQ Native American Cultural Studies Branch California Department of Transportation

Environmental & Cultural Focus

MMBN Project Delivery Process

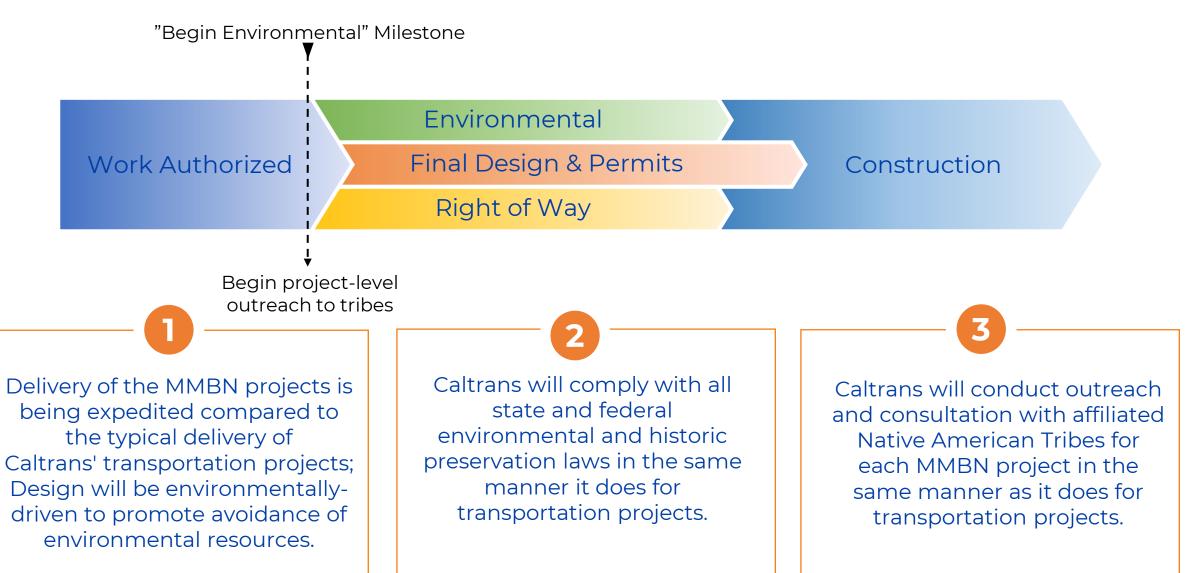
Caltrans' 12 Districts are responsible for the delivery of the MMBN projects within key corridors of the State Highway System throughout the state.

Project Delivery = Design, Environmental Review & Compliance, Permitting, and Construction.

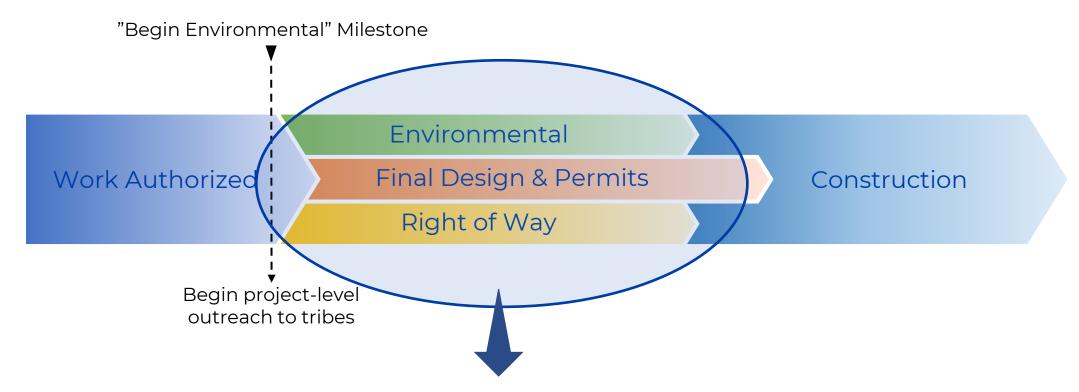


Environmental & Cultural Focus

Project Delivery Strategy



Environmental and Cultural Resources Studies Process



- Identification
- Avoidance and Minimization
 Mitigation Development
- Evaluation

Information and Resources for Communication and Coordination:

Cultural Studies Office/Native American Cultural Studies Branch Website

Tube	Maps	🍯 Welcome to Onram	CCRD	Training cafishpac	🕄 New Tab	ODT Online WEB O	Law section	Public Engagemen	nt 📕 My Sign-Ins S	Securi 🙀 State Em	mployees HR Diversity	y, Equity, an	🚹 diagrams.net
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		47 Cal	trans			Travel	Work wit	h Caltrans	Program	ns C	Caltrans Near Me		Search
		District Native American Coordination The Headquarters Native American Cultural Studies Branch is the primary point of contact for all matters related to tribal cultural heritage considerations in transportation planning and project delivery. We welcome and encourage the establishment of regular communications and coordination among Caltrans and tribal government representatives who are responsible for the protection of tribal heritage to promote better planning and avoidance of important cultural sites. Please <u>contact us</u> if you have any questions or if you would like to be connected with your local District Native American Coordinator (DNAC).											
		Contact Lis				lies Coordination (D							
		Org Chart -	Caltrans Sta	tewide and Triba	l Relations S	taff and Executive Le	eadership (PDF) A	DA Compliant	t Version (PDF)				

Webpage Address: https://dot.ca.gov/programs/environmental-analysis/cultural-studies/native-american-cultural-studies

Information and Resources for Communication and Coordination

District Native American Coordinators (DNACs)

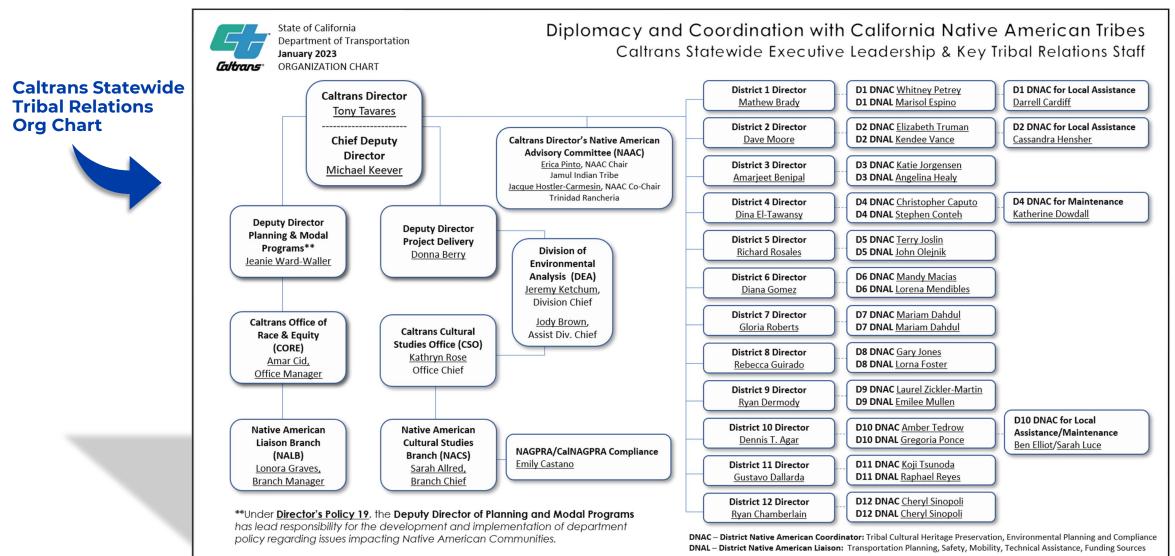


District	Region	Name	Title	Phone	Email
HQ	Statewide	Sarah Allred	Cultural Studies Office Native American Cultural Studies Branch Chief	916-956-5506	sarah.allred@dot.ca.gov
1	North	Marisol Espino	District 1 Native American Coordinator	530-812-4546	marisol.espino@dot.ca.gov
2	North	Elizabeth Truman	District 2 Native American Coordinator	530-759-3411	elizabeth.truman@dot.ca.gov
2	North	Cassandra Hensher	District 2 Native American Coordinator – Local Assistance	530-225-3238	cassandra.hensher@dot.ca.gov
3	North	Katie Jorgensen	District 3 Native American Coordinator	530-720-4555	katherine.Jorgensen@dot.ca.gov
4	Bay	Christopher Caputo	District 4 Native American Coordinator	510-715-9059	christopher.caputo@dot.ca.gov
4	Bay	Kathy Dowdall	District 4 Native American Coordinator – Maintenance	510-715-7119	katherine.dowdall@dot.ca.gov
5	Central Coast	Terry Joslin	District 5 Native American Coordinator	805-235-9747	terry.joslin@dot.ca.gov
6	Central Valley	Mandy Macias	District 6 Native American Coordinator	559-445-6250	mandy.macias@dot.ca.gov
7	South	Mariam Dahdul	District 7 Native American Coordinator	213-897-5743	mariam.dahdul@dot.ca.gov
8	South	Gary Jones	District 8 Native American Coordinator	909-383-7505	gary.jones@dot.ca.gov
9	East Central	Laurel Zickler-Martin	District 9 Native American Coordinator	760-419-1488	laurel.zickler-martin@dot.ca.gov
10	Central Valley	Amber Tedrow	District 10 Native American Coordinator	209-479-3269	amber.tedrow@dot.ca.gov
11	South	Koji Tsunoda	District 11 Native American Coordinator	619-606-3108	koji.tsunoda@dot.ca.gov
12	South	Cheryl Sinopoli	District 12 Native American Coordinator	657-328-6165	cheryl.sinopoli@dot.ca.gov

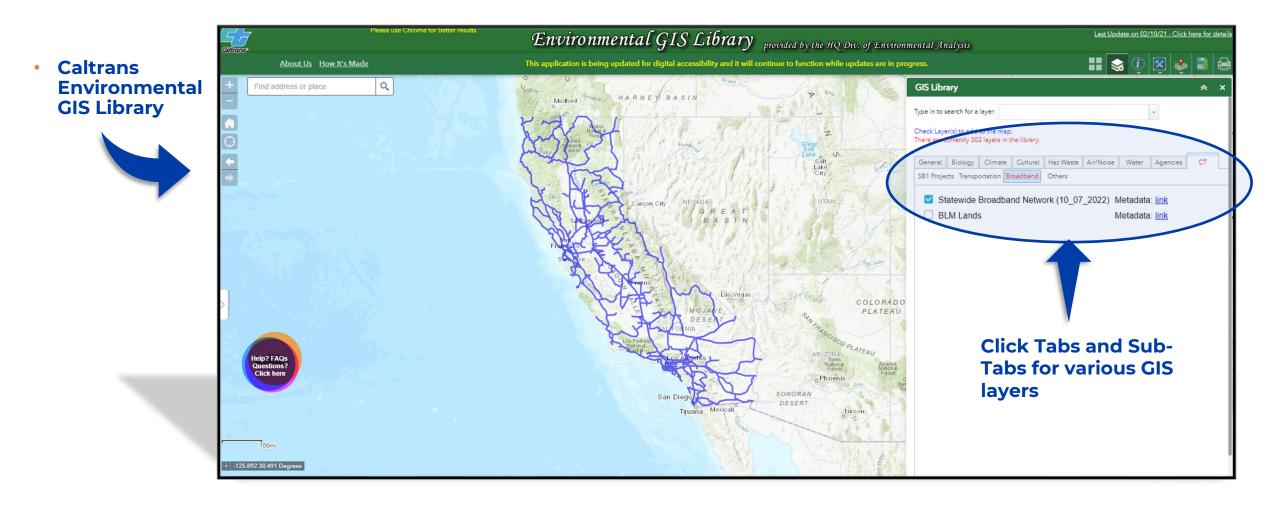
Caltrans Native American Cultural Studies Coordination (DNAC List)

January 2023

Information and Resources for Communication and Coordination



Information and Resources for Communication and Coordination



Webpage Address: https://svctenvims.dot.ca.gov/DEA_Library/

Information and Resources for Communication and Coordination

- Caltrans Standard Environmental Reference (SER)
- Volume 2: Cultural Resources Compliance



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St Caltrans	Travel	Work with Caltrans	Programs	Caltrans Near Me	Q Search
Iome Programs Environmental Analysis S	Standard Environmental Ref	ference (SER) Volume 2: Cult	ural Resources		
Volume 2: Cultural Res	ources				
Contact					
his section of the SER is designed for cultural resourc	e specialists. It contains mo	re detailed information than Cha	apter 28 of Volume 1.		
NOTICE: In October 2013, the Federal Highway Admini: National Environmental Policy Act (NEPA) for Caltrans' Progress in the 21st Century Act (MAP-21). This include (DEA-CSO) was assigned FHWA's Section 106 responsit /ol. 2), it refers to DEA-CSO. Using the process outlined Caltrans projects and for FHWA-funded local agency pr for processing.	participation in the Surface s FHWA's Section 106 respo pilities. Therefore, wherever d in Volume 2, the appropria	Transportation Project Delivery msibilities. Under NEPA assignm FHWA is mentioned in the Caltra te Caltrans district environment	Program, pursuant to, ent, the Caltrans Divisio ans Standard Environme al staff will continue to	23 USC 327, as amended by Mo on of Environmental Analysis Co ental Reference Volume 2 – Cul process Section 106 complianc	oving Ahead for ultural Studies Of tural Resources (e documentation
For more information on NEPA delegation, please refer District Heritage Resources Coordinator.	r to <u>Chapter 38</u> of the SER. Q	uestions regarding DEA-CSO's F	HWA Section 106 respor	nsibilities, should be directed t	o the appropriate
Overview					
he consideration of cultural resources is a critical par ederal and state environmental laws and regulations of					
o meet legal requirements for cultural resources man hapter has supplemental material in a series of exhib				e 2. Following is a synopsis of t	his handbook. Ea
Caltrans has developed templates for cultural resource <u>Femplates</u> page.	es documents described in t	the chapters and exhibits. Links	to these templates are l	below and also can be found or	n the <u>Cultural</u>

The following information is in Adobe Acrobat Portable Document Format (PDF). Please be aware that some of the files are large and may take considerable time to download depending upon your Internet connection.

Volume 2 Chapters:

- <u>Chapter 1</u> General Information
- <u>Chapter 2</u> Cultural Resources Procedures
- <u>Chapter 3</u> Native American Consultation
- <u>Chapter 4</u> Cultural Resources Identification
- <u>Chapter 5</u> Archaeological Resources
- <u>Chapter 6</u> Built Environment Resources

Information and Resources for Communication and Coordination

Key Caltrans Contacts for MMBN Environmental and Cultural Resources Inquiries:

Jennifer Lugo, Statewide MMBN Environmental Coordinator

Jennifer.Lugo@dot.ca.gov

Jody Brown, Assistant Division Chief, HQ Division of Environmental Analysis (DEA)

Jody.Brown@dot.ca.gov

Kathryn Rose, Office Chief, HQ Cultural Studies Office (DEA)

• Kathryn.Rose@dot.ca.gov

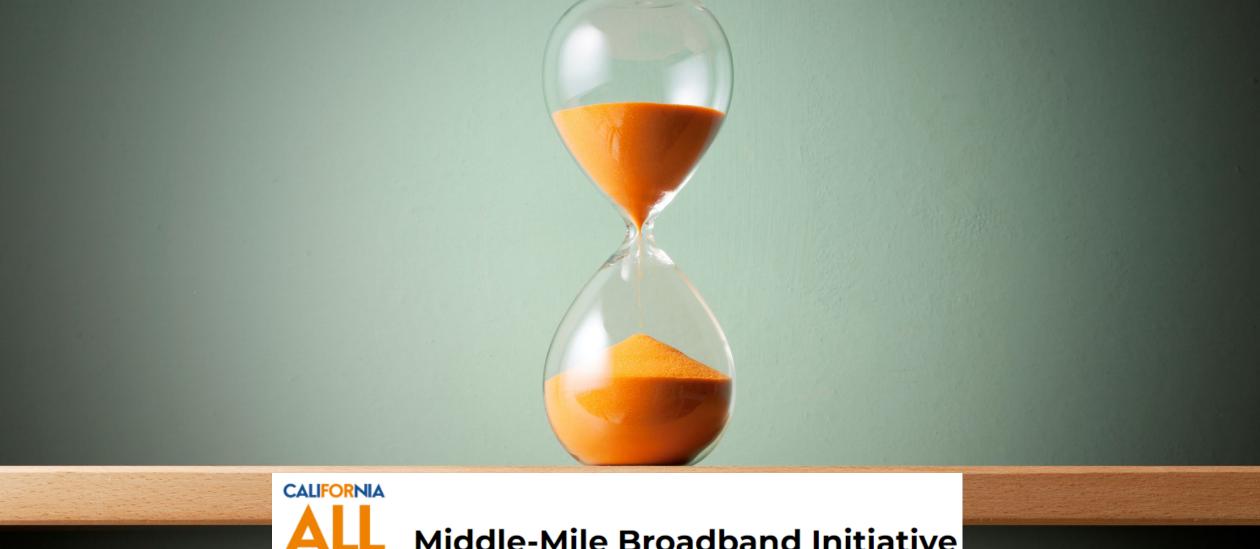
Sarah Allred, Branch Chief, HQ Native American Cultural Studies Branch (DEA)

<u>Sarah.Allred@dot.ca.gov</u>

Comments or Questions?



5 Minute Break



Middle-Mile Broadband Initiative

Rachel Peterson Executive Director California Public Utilities Commission

Matt Rantanen

Senior Advisor GoldenStateNetwork

CPUC Last Mile Broadband Connections



Overview

- Office of the Tribal Advisor and Tribal Liaison
 - Tribal Consultation Policy
 - Tribal Land Transfer Proceeding

Last Mile Broadband Connections

- Tribal Technical Assistance
- Technical Assistance for local Agencies
- Last Mile Federal Funding Account
- California Advanced Services Fund
- Loan Loss Reserve Program

CPUC Last Mile Broadband Connections

CPUC Office of The Tribal Advisor

- Mr. Holbrook is an enrolled member of the Pit River Tribe, also has Maidu ancestry.
- Executive Director of Maidu Summit Consortium 2013-2019, oversaw acquisition of 2,325 acres of Maidu ancestral homeland through grant from PG&E.
- CPUC's Office of the Tribal Advisor is located at CPUC's Sacramento office.



CONTACT US TribalAdvisor@cpuc.ca.gov 415-793-8522 300 Capitol Mall, 5th Floor Sacramento, CA 95814

CPUC Last Mile Broadband Connections

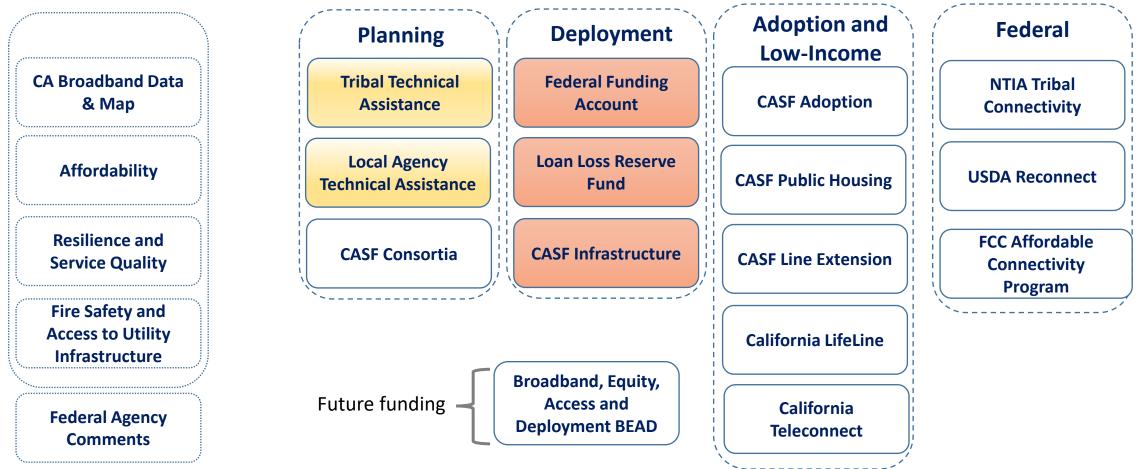
CPUC Tribal Outreach and Engagement

- For all further information, see CPUC main web page
- Office of the Tribal Advisor
 - <u>Tribal Liaison</u>
- Tribal Consultation Policy
- Tribal Land Transfer Policy
 - Implementation and Policy Review Rulemaking 22-02-002
- Covers Energy, Broadband, Safety and other policy areas



<u>Mapping, Modeling &</u> <u>Costing</u>

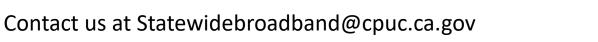
CPUC Funding Programs



Contact us at Statewidebroadband@cpuc.ca.gov

CPUC Assisting Tribes with Last Mile Connections

- CPUC Tribal Technical Assistance Program
- Assistance for Tribes to improve communications
 - Use consultants to develop market studies, feasibility studies, and/or business plans which support Tribes for improved communications
 - Application windows Jan 1, April 1, July 1, October 1
- <u>CPUC Tribal Technical Assistance web page</u>
 - Application information and webinar are on the CPUC Tribal Technical Assistance site





\$50 Million for Tribal Governments and Local Agencies for last-mile broadband infrastructure projects.

• Eligibility

- Tribal set-aside from total funding.
- Funds pre-construction deliverables, such as environmental permits, engineering studies, and strategic plans

Applications

- 94 applicants requested a total of \$42 million.
- Applications still being accepted as of Jan 2023

Awards

- 68 grants for \$30 million (December 12, 2022).
- <u>County dashboard</u>
- <u>Technical assistance program</u>

County Map of Technical Assistance Applications



Contact us at Statewidebroadband@cpuc.ca.gov



Map showing priority areas and layer of tribal lands

The \$2 billion <u>Federal Funding</u> <u>Account</u> is for last-mile broadband infrastructure

- **Priority Areas** are pre-defined, eligible areas where entities can apply for funds.
- Designed to support a sustainable business case for the service provider.
- Entities eligible to apply include Tribes, service providers, public entities, non-profits.
- <u>Priority Areas Map</u> is publicly available.

Up to \$150 million a year funded by a surcharge on telephone bills for the <u>California Advanced Services</u> <u>Fund (CASF)</u> to serve:

- Broadband Adoption and Digital Equity
 - Grants to public entities and community-based organizations for digital literacy and broadband access projects.
- Public Housing / Low-Income Communities
 - Grants to build broadband networks offering free broadband service for residents of low-income communities.
- Consortia
 - Regional experts to help develop grant applications.
- Infrastructure
 - Grants for unserved areas.



California Advanced Services Fund Adoption Account Center for Elders' Independence digital literacy project grantee

- The Broadband Loan Loss Reserve Program helps public entities to finance broadband infrastructure deployment.
- Proposed program rules
 - Proposed Rules
 - Program Fact Sheet
 - Proposal Comments Fact Sheet

CALIFORNIA BROADBAND LOAN LOSS RESERVE FUND Supporting Public Broadband Networks in California

WHAT IS THE CALIFORNIA BROADBAND LOAN LOSS RESERVE FUND?

The California Broadband Loan Loss Program is a new \$750 million fund. It will support local governments and nonprofits with the financing for building broadband infrastructure. Specifically, it will provide credit enhancements that will enable more favorable terms when they borrow money from bond markets and financial institutions.

HOW DOES THE LOAN LOSS PROGRAM WORK?

The Broadband Loan Loss Reserve Fund Program enables public broadband investment by encouraging lenders or investors to invest in the California broadband market by providing protection against a certain percentage of the lender's risk of loss in a given financial transaction.

By guaranteeing local agency bonds, pooling risks, and negotiating on behalf of all local agencies, the Loan Loss Program lowers borrowing costs for local agencies and provides investors with the certainty they need to invest in public broadband.

Requirements are being developed through California Public Utilities Commission Rulemaking (R.) 20-08-021 and a staff proposal will be released in the third quarter of 2022.

ELIGIBLE ENTITIES PER PUBLIC UTILITIES CODE 281.2

Non-Profits and Local Government Agencies, which includes:

- Counties
- County Service Areas
- Community Service Districts
- Public Utility Districts
- Municipal Utility Districts
- Joint Powers Authorities
- Local Educational Agencies
- Sovereign Tribal Governments
- Electrical Cooperatives

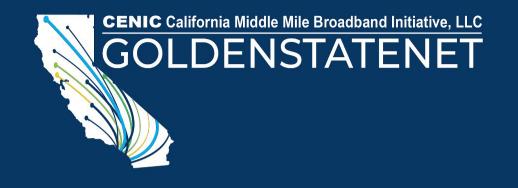
CPUC Thank You

Contact: statewidebroadband@cpuc.ca.gov

TribalAdvisor@cpuc.ca.gov



CASF Hoopa Valley PUD Hunter Fiber Project team touring the Hoopa network operations center in 2021.



Matt Rantanen

Senior Advisor Tribal Broadband matt.rantanen@goldenstatenet.org



Q&A Session & Discussion

CALIFORNIA Middle-Mile Broadband Initiative

Closing Remarks



THANK YOU: Contact: MMBI.PMO@state.ca.gov



