



**BROADBAND
FOR ALL**

Middle-Mile Advisory Committee

September 16, 2022





AGENDA

- Welcome
- Executive Report
- Project Updates
- Public Comment

Mark Monroe

Deputy Director

Middle-Mile Broadband Initiative

Executive Report

Recap

- Proceeding with execution phase

Updates

- Statewide – CDT
- Build Efforts – Caltrans
- Core Network Backbone Design – GoldenStateNet
- Last Mile Coordination – CPUC

Coming up

- Contract execution



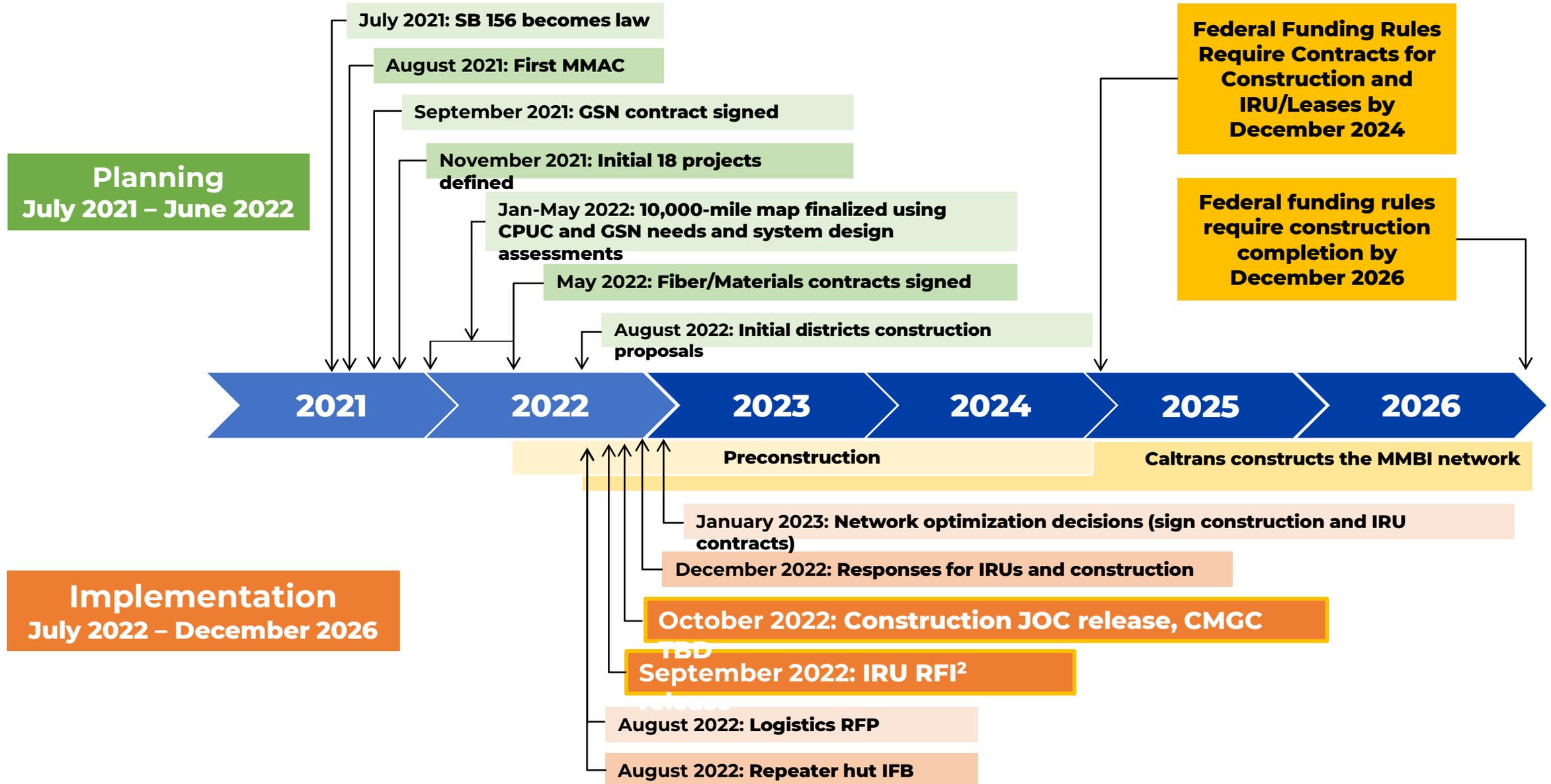
Goal: Optimize Coverage

Three avenues available to complete miles:

- **Build**
- **Joint Build**
- **Lease**



CDT Project Recap





By October 14 ...

1. **Releasing an RFI² solicitation for pricing for:**
 - **IRUs (fiber leasing)**
 - **Joint builds**
2. **Job Order Contracts (JOC) build**

Construction Contracts

~60% of system released for bid October 14

Approximately 6,000 miles of Job Order Contracts

- **50% committed for build**
- **Decision on remainder build/lease is pending cost estimates**

Benefits

- **Maximum miles released to calculate average cost**
- **Flexibility to choose best cost option-build vs. lease**

**100% of
system
under contract
by
May 2023**

Janice Benton

Division Chief

California Department of Transportation

More than 3,500 miles expected to begin construction by early 2023

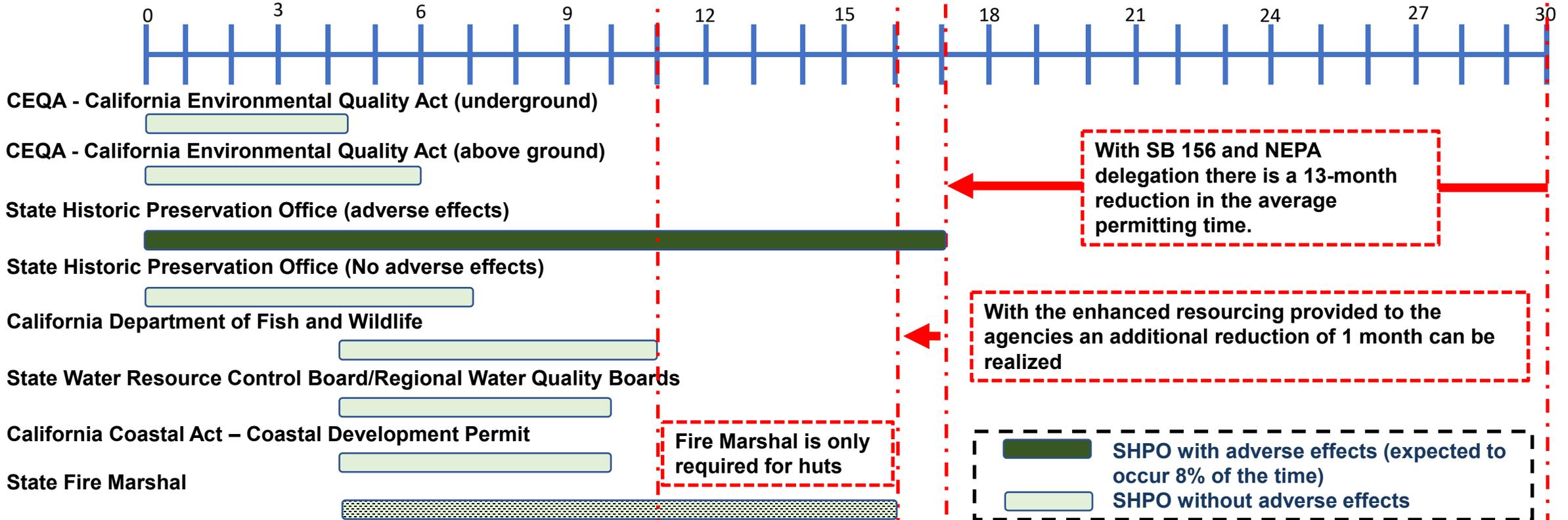
How did we get here?

1. **Alternative delivery methods**
 - **667 miles of Dig Smart opportunities**
 - **Job Order Contracting**
 - **Construction Manager/General Contractor**
2. **Initial 18 locations (39 projects)**
3. **Streamlined permitting**

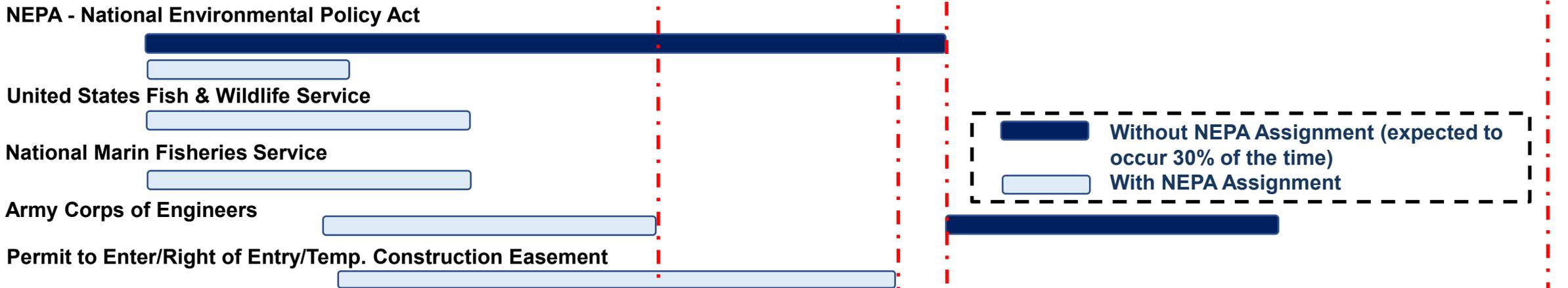


Caltrans Recap: Permitting reduced from 30 to 17 months

State Permitting



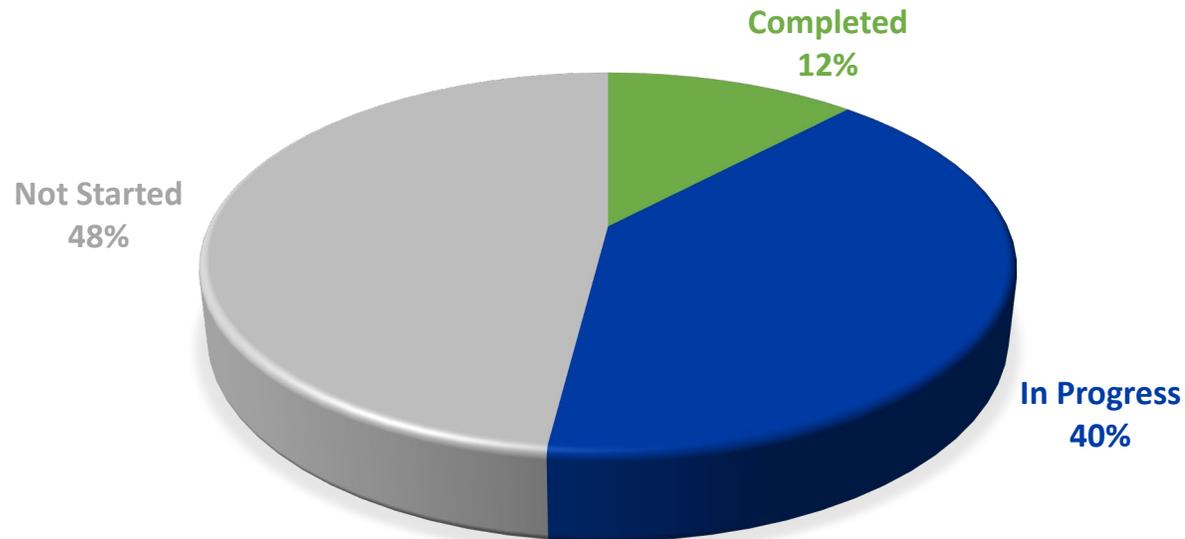
Fed. Permitting



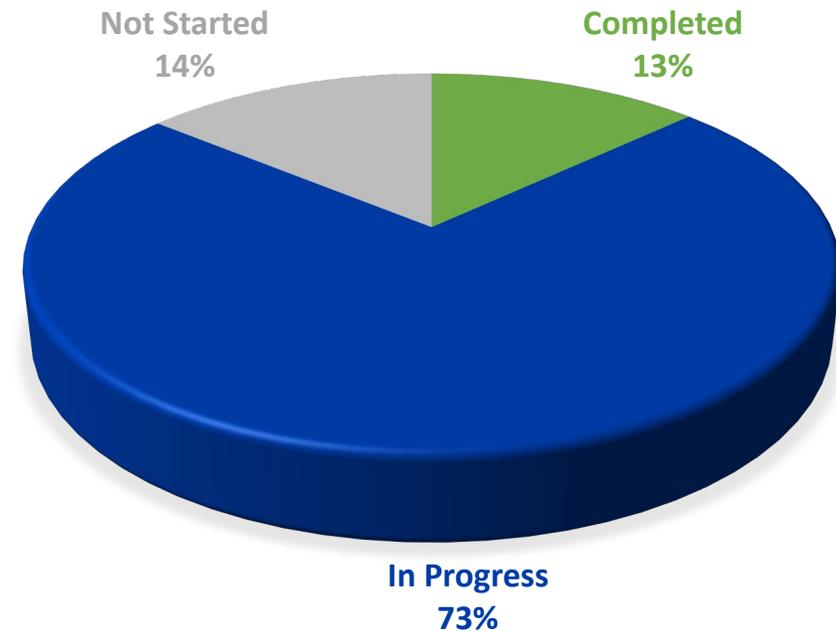
Significant Progress on Preconstruction

Environmental, Permitting and Design Progress

August 2022



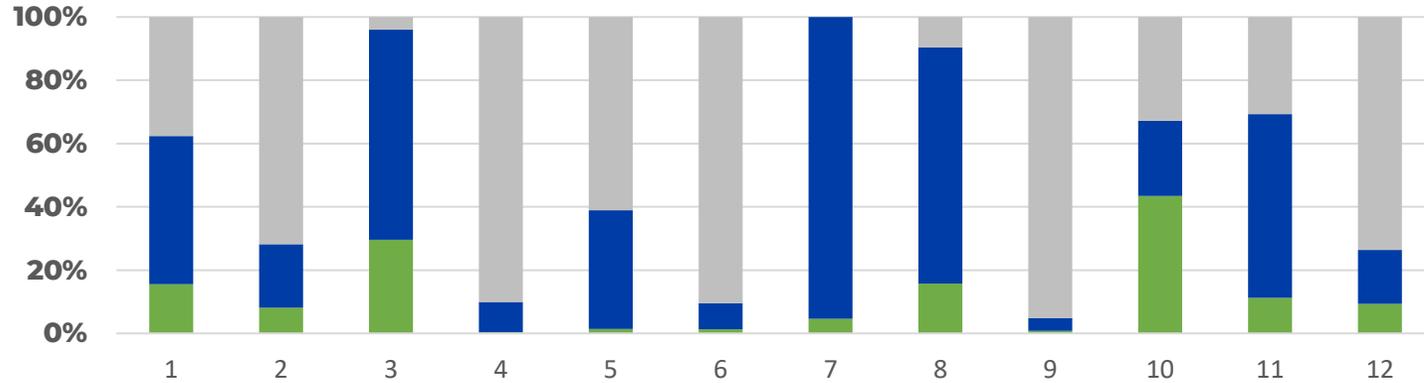
September 2022



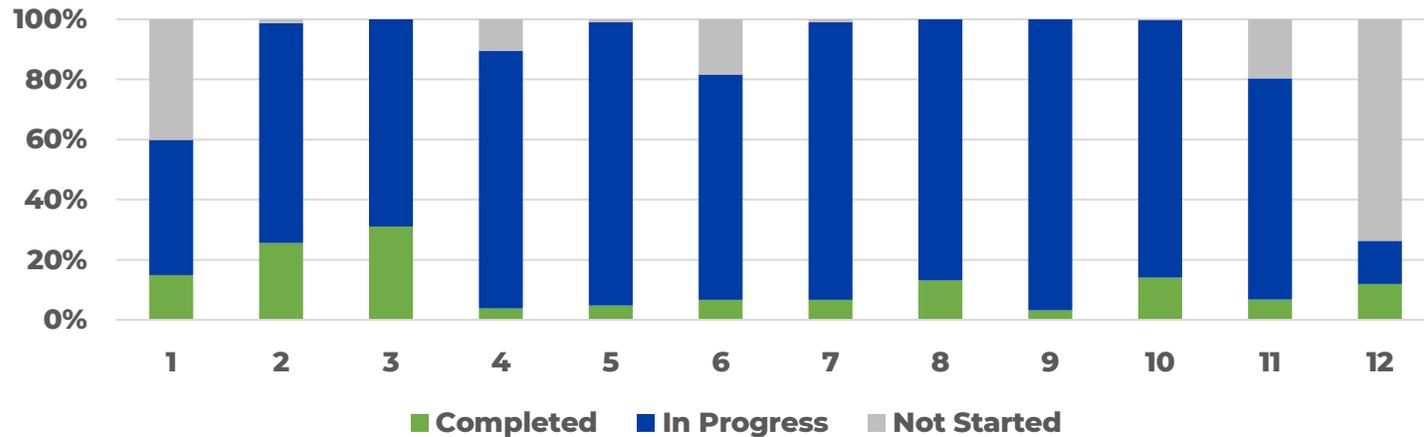
Project Delivery Updates

Preconstruction progress by Caltrans district.

August 2022



September 2022



Preconstruction Completion

(Average Permitting and Design Reduced from 30 to 17 months)

- **Location 14: San Bernardino (33.2-miles)**
 - Progressed to 50% from less than 10%
 - Completed majority of design layout
- **Location 16: Orange County (39-miles)**
 - Progressed to 45% from 35%
 - Validated shelter network hub locations and 2/3 of design layout.
- **Location 10: Fresno (32.6-miles)**
 - Progressed to 30% from 20%
 - Prepared electrical estimates and specifications



Dig Smart Miles

	AUGUST	SEPTEMBER
Start in 2022	90	114
Start in 2023	234	301
Under Evaluation	343	251
Total	667	667



Tony Naughtin

**President and Chief Operating Officer
GoldenStateNet**

- **Significant work on MMBI Network Service Architecture:**
 - **Continue to finalize recommended ILA (retransmission) hut locations with Caltrans – now 40% complete**
 - **Engineering drawings for huts and specifications for hut systems (power, HVAC, security)**
 - **Active Electronics: ‘BOM’ (Bill of Materials) configurations and specifications**
 - **Core backbone vs. lateral BOMs**
 - **Best options for pricing and technical support of all electronics**



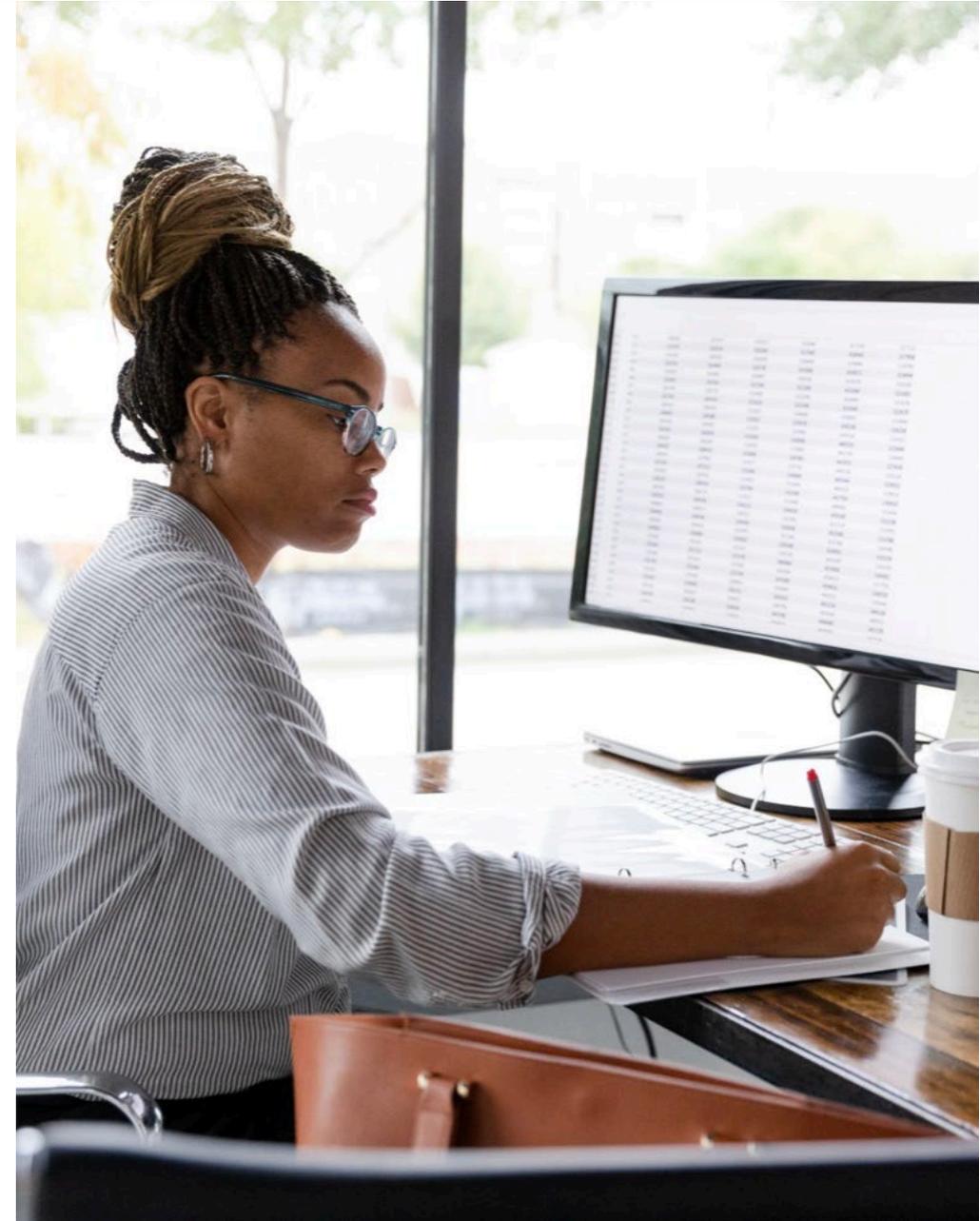
GoldenStateNet Update

- **Collaboration and support of bidding and procurement processes:**
- **With CDT:**
 - RFI2 process for DF IRUs, Joint Builds, Facilities colocation (RXPs)
 - RFP for fiber management system
 - RFPs for other software systems to follow
- **With Caltrans:**
 - **Bids for Job Order Contracting:**
 - Optical network construction
 - ILA huts including all structural and hut systems



GoldenStateNet Update

- **Network development work continues to progress for:**
 - **Potential Joint Builds, growing in number and potential mileage**
 - **Leasing of DF IRUs and conduit, substantial progress being made**
- **Work also continues on:**
 - **Business model - focusing on revenue projection and analysis; continuing review of OPEX cost projections**
 - **System Layer Design and Program Plan refinements and updates**



GoldenStateNet Update

- **Full software architectural model has been provided:**
 - **Defines essential software and system needs:**
 - **FMS, Inventory Mgmt, CRM, Billing...plus**
 - **Network Mgmt System (NMS), Ticketing, Run Book, Reporting, Comms, other**
 - **Defines use case scenarios and workflows**
 - **Defines interoperating relationships between these systems to support NOC and NetOps**
 - **Enable high quality network services and customer support**



Jonathan Lakritz

Communications Division
California Public Utilities Commission

Local Agency Technical Assistance

\$50 Million for Local and Tribal Governments

- To facilitate last-mile broadband infrastructure projects
- Supporting local agency and Tribal efforts expanding broadband to families and communities lacking sufficient internet access

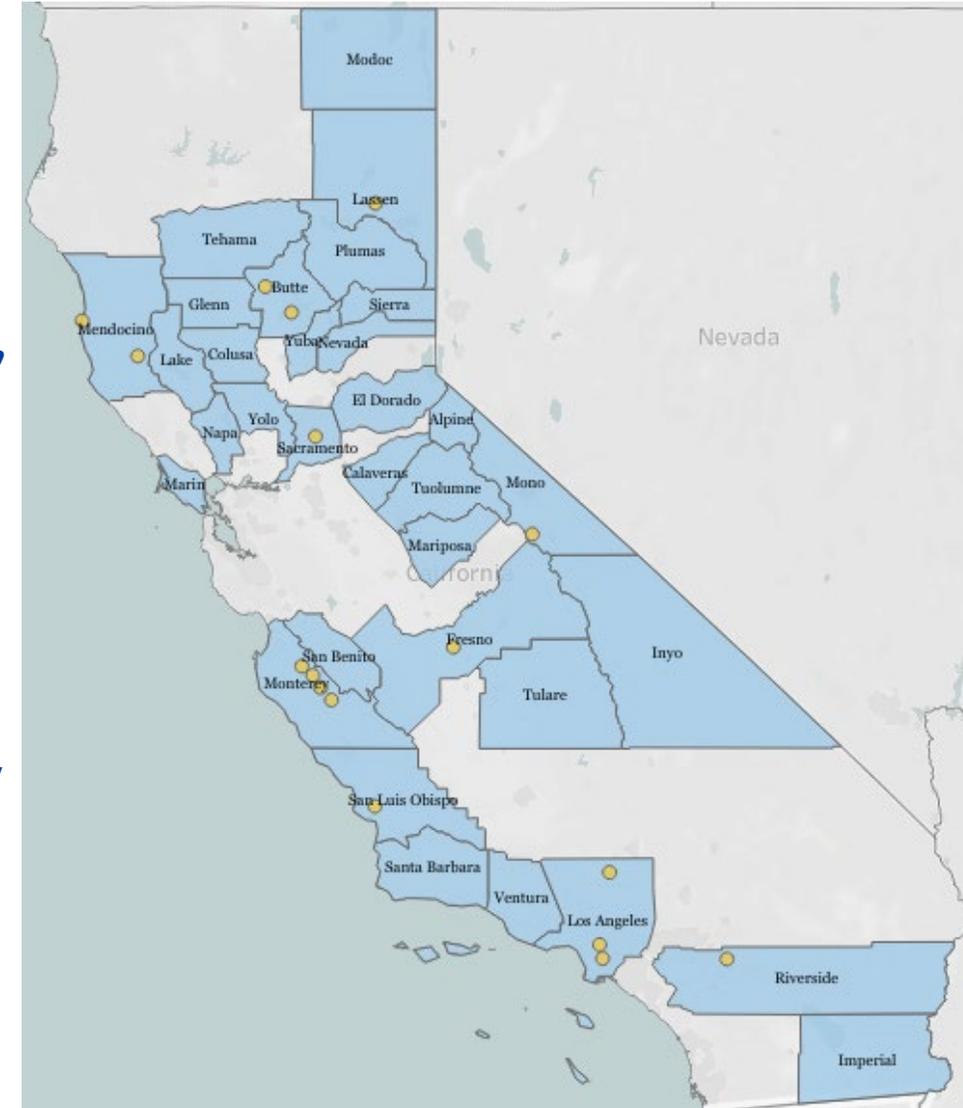
Eligibility

- Broad eligibility includes cities, counties, community service districts, municipal utilities districts, school districts, electrical cooperatives, sovereign tribal governments, and Joint Powers Authorities
- Eligible costs are for pre-construction deliverables, such as environmental permits, engineering studies, and strategic plans

Applications

- 46 applicants requested a total of \$22.2 million during the August window – these applications are now under review
- Applications are currently being accepted for the September window

County Map of Technical Assistance Applications



California Advanced Services Fund Broadband Grants Received

Broadband Adoption and Digital Equity

Grants to public entities and community-based organizations for digital literacy and broadband access projects

- On July 1, CPUC received 99 project applications.

Consortia

Regional consortiums of public entities and community-based organizations to help deploy broadband infrastructure and service by assisting with broadband grant application development.

- On July 15, the CPUC received 15 applications.

Public Housing and Low-Income Communities

Grants to build broadband networks offering free broadband service for residents of low-income communities including but not limited to, publicly supported housing developments, and housing or mobile home parks with low-income residents

- On July 1, CPUC received 19 project applications.



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

2022 Broadband Investment Last-Mile Broadband Initiative Snapshot

TECHNICAL ASSISTANCE

LOAN LOSS RESERVE FUND

FEDERAL FUNDING ACCOUNT

CALIFORNIA ADVANCED SERVICES FUND

Amount **\$50 million**

\$750 million

\$2 billion

\$150 million per year

Summary

Assist local governments & Tribes to prepare for broadband infrastructure investments.

Enable local governments & nonprofits to secure financing for broadband infrastructure.

Fund last-mile broadband infrastructure projects in every county.

Assist with broadband infrastructure deployment & adoption in public housing, Tribes, & unserved areas.

Target

Apply monthly now

Comment on proposal

Priority Areas to be released before applications open

Apply in the next cycle for adoption, public housing, line extension, and consortia accounts

THANK YOU!



**BROADBAND
FOR ALL**