



California  
DEPARTMENT OF TECHNOLOGY

# Middle-Mile Advisory Committee Meeting

January 21, 2022

# AGENDA

| Item | Topic                      | Presenter(s)                                                                                                                                                                                                                                                                                                                      | Time       |
|------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 1    | Welcome / Opening Comments | Russ Nichols, Chair<br><br>Amy Tong, Director, Office of Digital Innovation and Senior Advisor to the Middle Mile Advisory Committee                                                                                                                                                                                              | 5 minutes  |
| 2    | Executive Report Out       | Mark Monroe, Deputy Director, BMMI                                                                                                                                                                                                                                                                                                | 5 minutes  |
| 3    | Information Items          | <ul style="list-style-type: none"><li>• California Public Utilities Commission –<ul style="list-style-type: none"><li>• Update on Mapping Data</li></ul></li><li>• California Department of Technology - Update</li><li>• Third Party Administrator – Update</li><li>• California Department of Transportation – Update</li></ul> | 45 minutes |
| 4    | Public Comment             | <ul style="list-style-type: none"><li>• Public</li></ul>                                                                                                                                                                                                                                                                          | 30 minutes |

# Executive Report Out

## Since we met in December:

- The California Public Utilities Commission (PUC) provided updated information regarding the anchor build map on December 31<sup>st</sup>. This updated information includes 2020 data on unserved communities, the public comments received during PUC's proceeding, and a comprehensive layer of Caltrans projects. This data is now available on CDT's Middle-Mile Broadband Initiative website ([State of California Middle-Mile Broadband Initiative](#)).
- Golden State Net has developed a draft of its proposed project sequencing approach as part of a broader program plan that it is developing.

## Looking forward:

Golden State Net has begun work on a System Level Design (SLD) that will identify:

- Physical network reference design, electronic network reference design.
- List of maps, diagrams, and tables.
- Detail of outside plant, hub site, and electronics materials needed.

# Executive Report Out

- Plan for how SLD will present cost estimates for several types for outside plant construction and assignment of all segments of network to their respective types and associated costs.
- Detail of equipment, material, and construction specifications.
- Explanation of design parameters.
- Segments recommended for construction.
- Segments with available and recommended IRUs.
- Sequenced list of projects to be constructed.

# CPUC Update



## Middle-Mile Broadband

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# State of California Middle-Mile Broadband Initiative

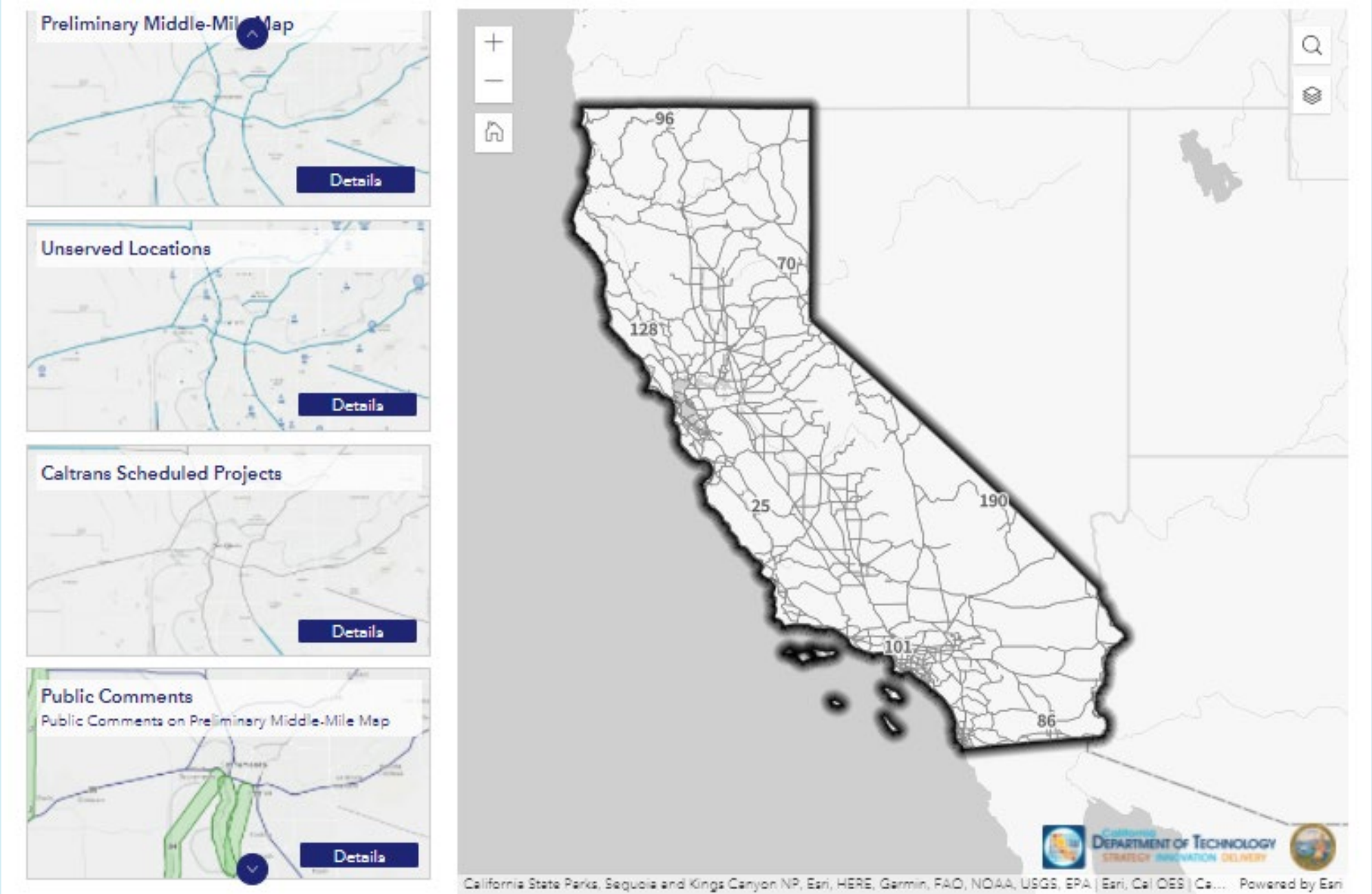
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In July 2021, Governor Gavin Newsom signed into law Senate Bill 156 to create an open-access middle-mile network to bring equitable high-speed broadband service to all Californians. SB 156 provides \$3.25 billion to build the necessary infrastructure to bring internet connectivity to homes, businesses and community institutions. The design and construction of the middle-mile network is monitored by the Middle-Mile Advisory Committee (MMAC).



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# Middle-Mile Broadband

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## Unserved Locations

[Details](#)

## Caltrans Scheduled Projects

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## Public Comments

Public Comments on Preliminary Middle-Mile Map



### Locations Unserved at 25/3 Mbps

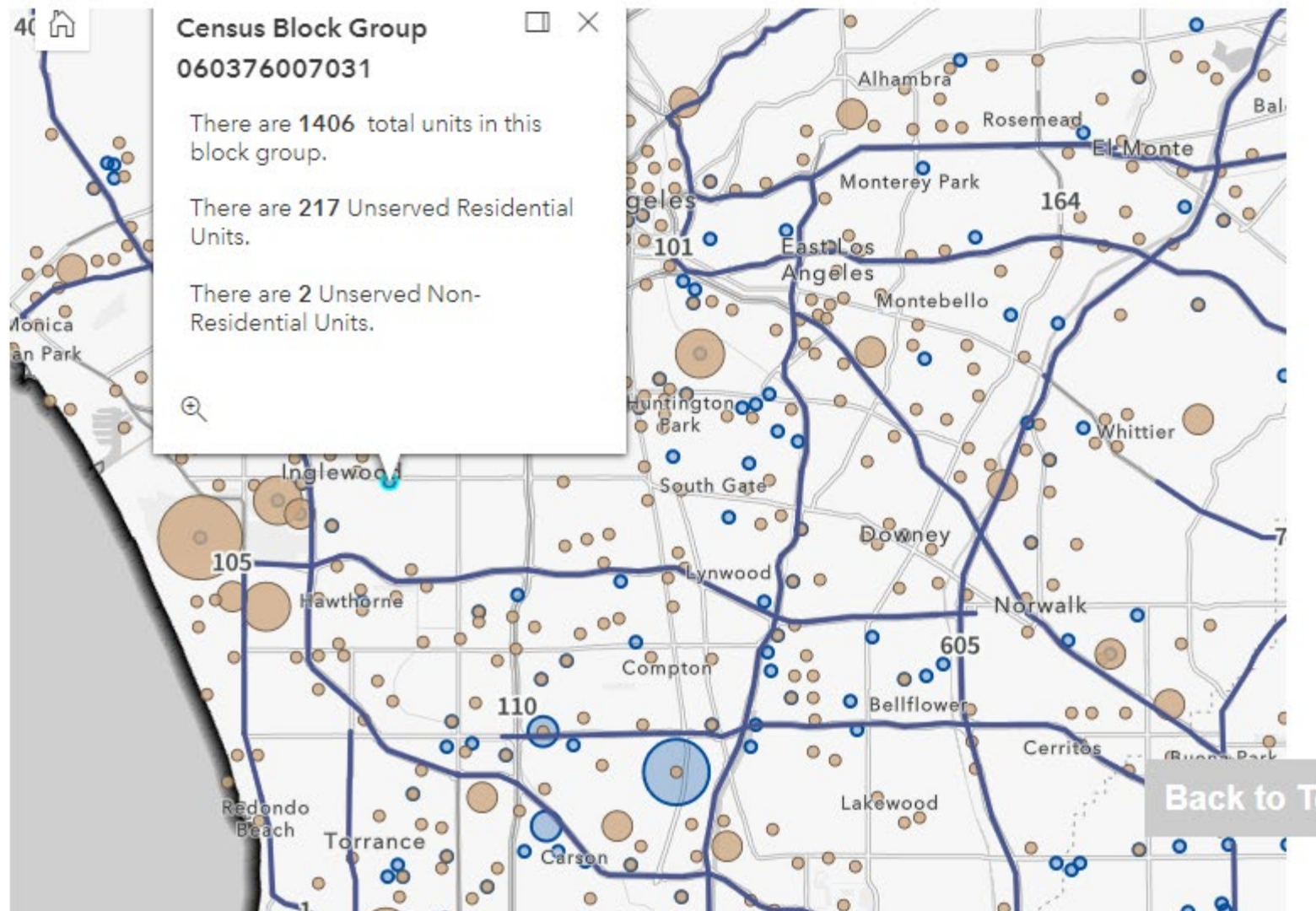
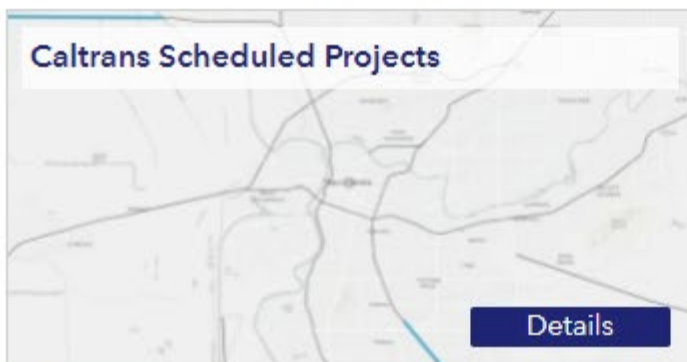
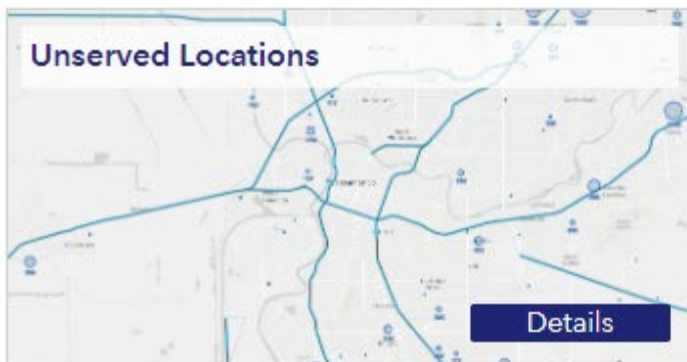
Residential (**blue**) and non-residential (**brown**) locations by census block that are unserved by a wireline service provider at 25 Mbps download speed and 3 Mbps upload speed. Unserved locations are also without DSL connections and DOCSIS 2.0 and earlier cable technology.

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## Unserved Locations

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## Caltrans Scheduled Projects

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## Public Comments

Public Comments on Preliminary Middle-Mile Map



### Caltrans Scheduled Projects

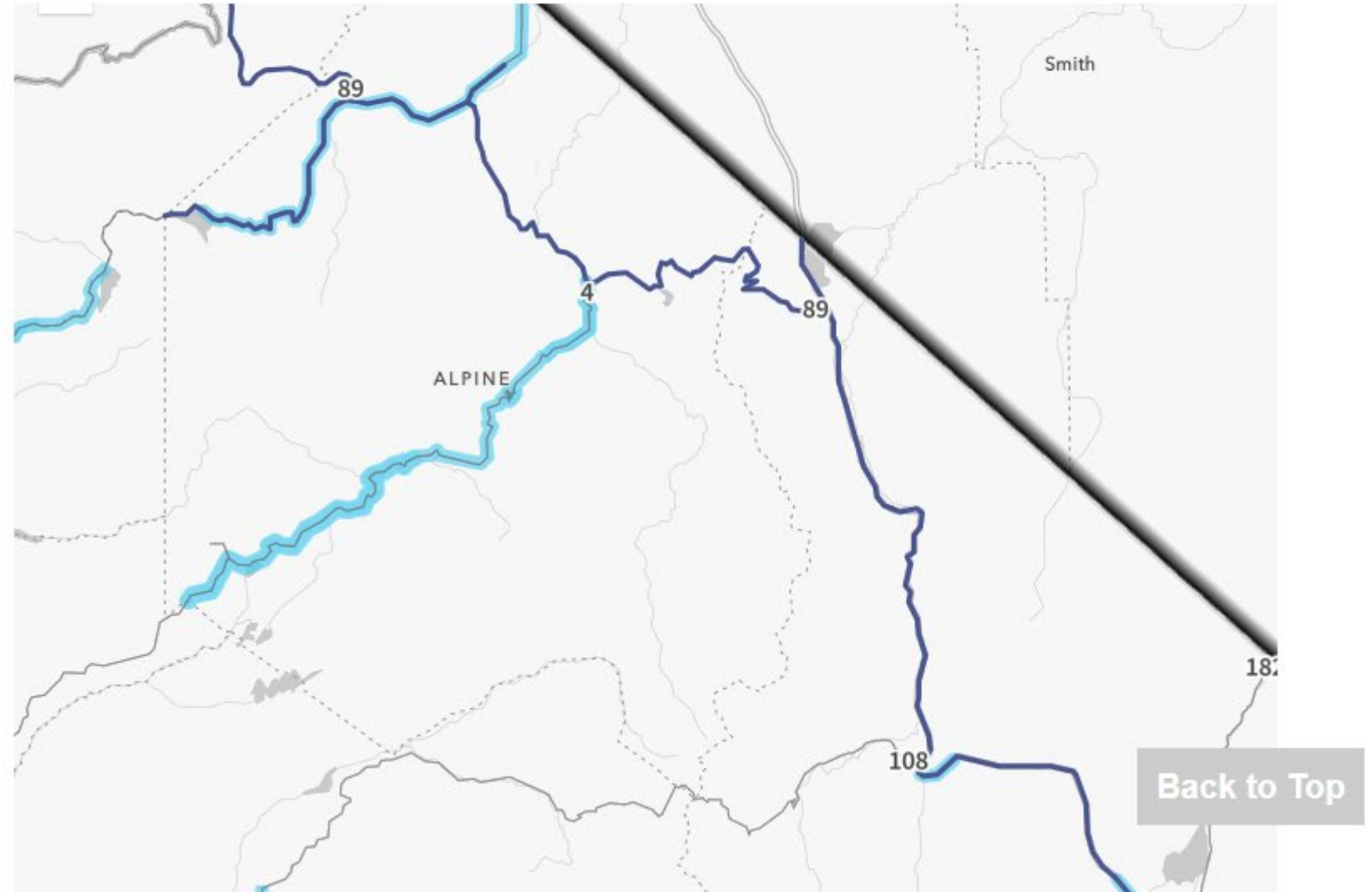
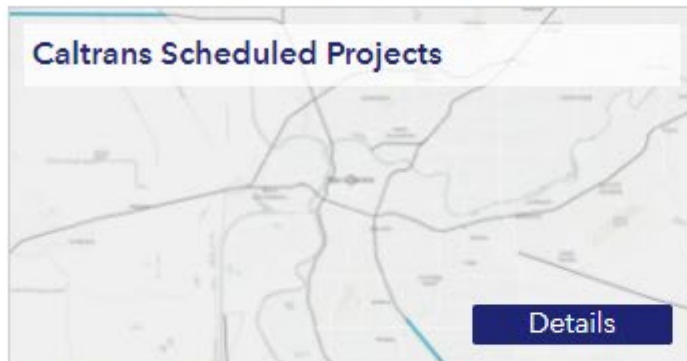
This map layer shows Caltrans State Highway Operation and Protection Program (*SHOPP*) projects some of which require Project Initiation Documents (PID). These projects belong to the “fix-it-first” program that funds the repair and preservation of the state highway system. Middle-mile network locations are being considered for building with the Caltrans scheduled projects.



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## Public Comments on Preliminary Middle-Mile Map

The CPUC received public comments on the statewide open-access middle-mile authorized by [Senate Bill \(SB\) 156](#) [[leginfo.legislature.ca.gov](#)]. Comments responded to two rulings in the CPUC Rulemaking 20-09-001, which were the [August 6, 2021 Ruling](#) [[docs.cpuc.ca.gov](#)] and the [September 9, 2021 Ruling](#) [[docs.cpuc.ca.gov](#)]. The comments are formal (parties to the Rulemaking) and informal (from non-parties to the Rulemaking). Comment documents can be found [here](#).

## Caltrans Scheduled Projects

[Details](#)

## Public Comments

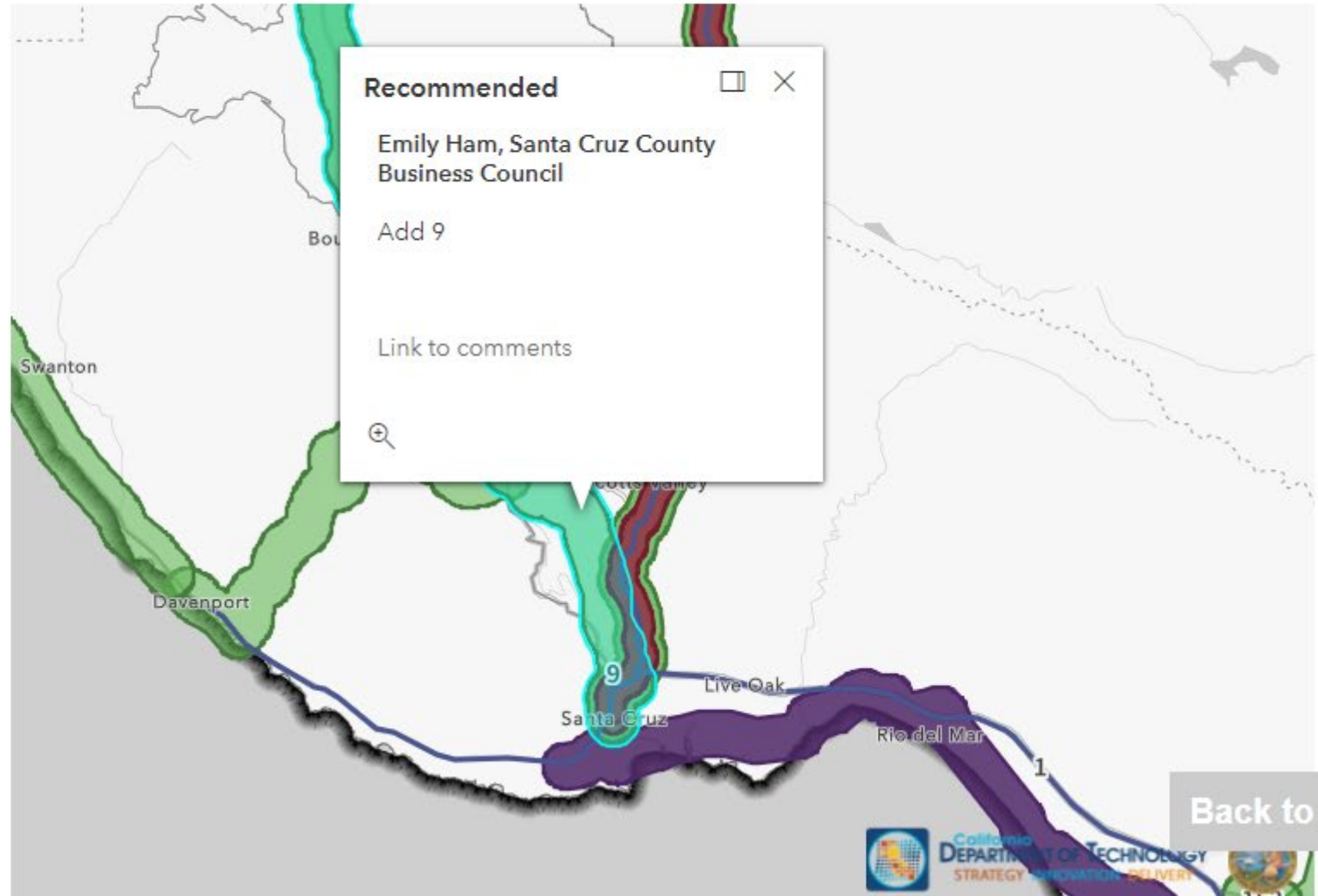
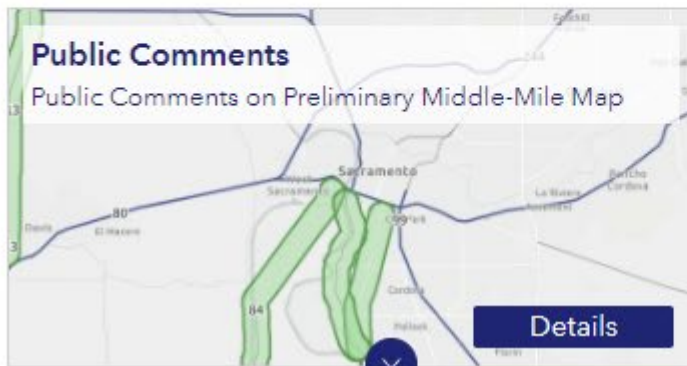
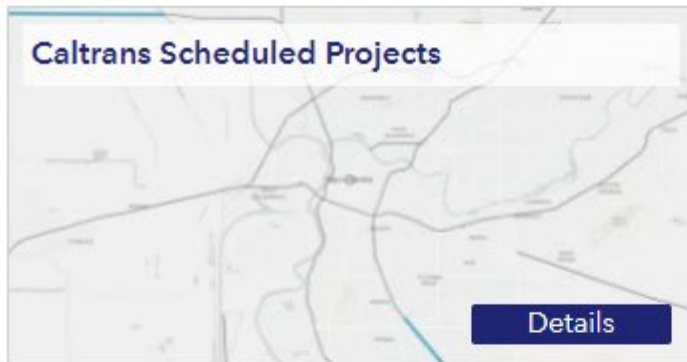
Public Comments on Preliminary Middle-Mile Map

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# CDT Update: Supply Risk and Mitigation

- Given the increased attention being paid to construction of broadband across the nation, CDT has been exploring steps to mitigate supply chain risks by getting to the front of the anticipated increase in demand by securing future supplies of fiber and other materials that are at risk of being in high demand and short supply.
- CDT is developing an RFP for a Master Purchase Agreement (MPA) that is intended to address the following items that are at risk:
  - Fiber cable
  - Conduit
  - Handholes
- CDT anticipates the following:
  - The MPA will include the securing of at least half of the materials that will be needed, with the option to expand the order once the final materials and quantities are identified in the System Level Design.
  - The MPA will also include most of the other materials that will be needed for construction and development of the system.
  - The MPA will minimize the need for storage by ordering future supplies consistent with the anticipated construction schedule, rather than taking delivery sooner.

# TPA Update

- Progress on 18 Initial Projects:
  - Recommended routes have been developed and refined for these 18 projects
  - Continued coordination with Caltrans on new-build locations among these
  - Substantial progress on Dark Fiber IRU negotiations for locations where a Dark Fiber solution is recommended
- Determining locations of Regional Exchange Points for 18 Initial Projects and beyond: using existing ISP facilities and broadband consortia recs where possible
- Program Plan for Middle Mile development:
  - Determination-Selection process for all future middle mile locations (to be developed) is being discussed and refined with CDT along with the Work Plan for this
  - Drafting work for the remaining portions of Program Plan continues
- Determination-Selection process for all remaining middle-mile locations is already underway so that timely recommendations can be made to CDT for final selections and sequencing of middle mile development work

# Caltrans Update

| District    | Number of Potentially Viable Projects that overlap the BMMN | Number of Potentially Viable Miles that overlap the BMMN | Total BMMN locations (miles) | Remaining miles to be constructed via Standalone Broadband Projects |
|-------------|-------------------------------------------------------------|----------------------------------------------------------|------------------------------|---------------------------------------------------------------------|
| District 1  | 5                                                           | 27                                                       | 560                          | 533                                                                 |
| District 2  | 3                                                           | 28                                                       | 870                          | 842                                                                 |
| District 3  | 23                                                          | 111                                                      | 985                          | 874                                                                 |
| District 4  | 11                                                          | 78                                                       | 820                          | 742                                                                 |
| District 5  | 2                                                           | 4                                                        | 530                          | 526                                                                 |
| District 6  | 8                                                           | 54                                                       | 975                          | 921                                                                 |
| District 7  | 9                                                           | 89                                                       | 590                          | 501                                                                 |
| District 8  | 1                                                           | 6                                                        | 925                          | 919                                                                 |
| District 9  | 3                                                           | 26                                                       | 380                          | 354                                                                 |
| District 10 | 12                                                          | 85                                                       | 725                          | 640                                                                 |
| District 11 | 9                                                           | 61                                                       | 595                          | 534                                                                 |
| District 12 | 25                                                          | 140                                                      | 145                          | 5                                                                   |
| Statewide   | 111                                                         | 710                                                      | 8,100                        | 7,390                                                               |

\*All mileage is approximate

Data as of 1/20/2022



# Caltrans Update

## FEDERAL AGENCIES



## STATE AGENCIES



**Thank You**