

Public Safety Radio Strategic Planning Committee November 18, 2025

Item 1: Welcome, Call to Order, and Roll Call

Cal OES (PSRSPC CHAIR)

California Highway Patrol

Department of Corrections & Rehabilitation

Department of Technology

Emergency Medical Services Authority

Department of Finance

Department of Fish & Wildlife

Department of Forestry & Fire Protection

Department of Justice

Military Department

Department of Public Health

Department of Parks & Recreation

Department of Transportation

Department of Water Resources



Item 2: Approval of Previous Minutes

PSRSPC – August 19, 2025



Item 3: Public Comments for Matters on the Agenda

Public Comment for matters on the agenda.



Item 4: Legislative Update

Cal OES Legislative and External Affairs will provide information regarding legislation that impacts Emergency Communications in California



Item 5: CRIS Design Concept

Consistent with State Administrative Manual (SAM) Section 4530, PSC has developed and implemented CRIS to accommodate multiple state agencies.

- With CRIS the State has the ability to:
 - Leverage purchasing power as a single entity
 - Maximize the use of infrastructure
 - Reduce redundant and duplicative networks

Purpose:

- Statewide P25 Phase II (TDMA) trunked radio system providing interoperable voice communications for public safety agencies.
- Designed to enhance interoperability among state, local, and federal partners during day-to-day operations and major incidents.

System Overview:

- Dual-core architecture for reliability and continuity
- Primary Core Sacramento
- Backup Core Los Angeles
- RF sites across California connected via the state microwave network with redundant backhaul paths

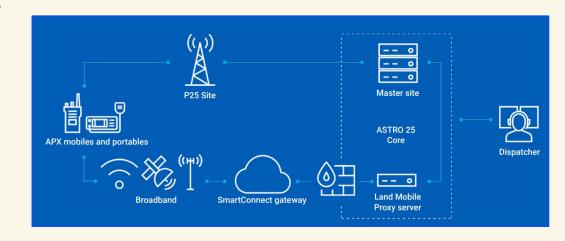


Item 6: Smart Connect Integration

An intelligent connectivity feature that allows APX P.25 radios to automatically switch between LMR and broadband networks (LTE, WiFi, or Satellite).

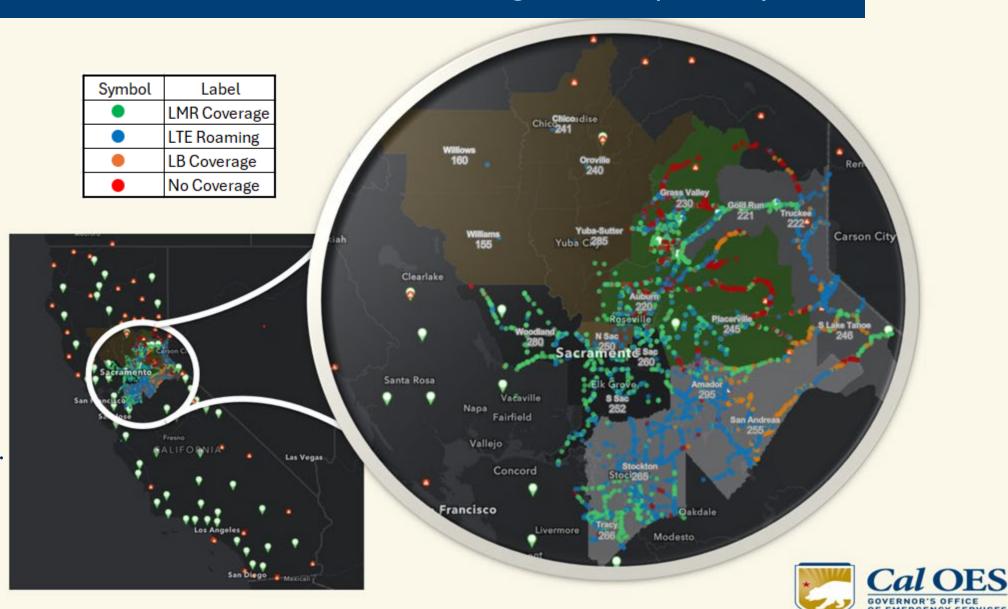
Functionality:

- Dual-Mode Operation: Radios with SmartConnect automatically switch to broadband when LMR coverage is lost, maintaining the same talkgroup and identity.
- Broadband Fallback: Ensures better connectivity in weak or no-LMR-coverage areas (indoors, remote or underdeveloped areas) by routing voice over LTE, WiFi, or Satellite.
- Interoperability Support: Keeps CRIS talkgroups active even when users move outside LMR coverage.
- **Seamless Switching**: Automatically transitions between LMR and broadband with no user action required, prioritizing LMR when available if the user desires.

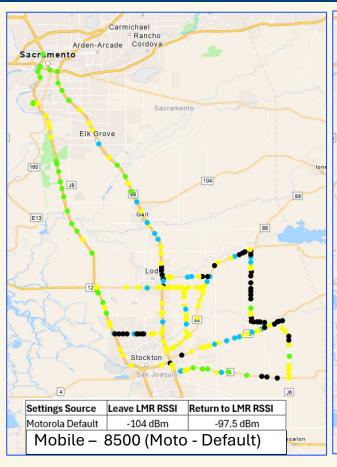


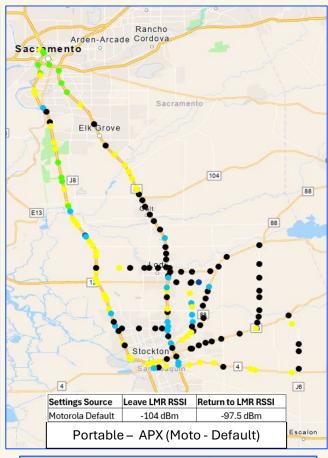


- CHP shared a coverage map showing areas with poor or unreliable CRIS service.
- PSC correlated the CHP data with internal coverage maps and conducted field surveys to validate findings.
- CHP results mostly matched PSC's expectations.

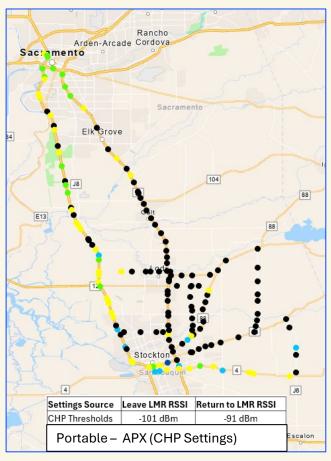


- Each point represents a PTT call with its corresponding RSSI signal level*
- All PTT calls were successfully completed**
- Motorola receiver sensitivity specification is -121 to -123 dBm depending on band.





Symbol	Signal Strength	Strength Indicator	
•	-105 to -110 d8m		
•	-100 to -105 dBm	ıı	
	-90 to 100 dBm	11	
•	>-90 dBm	111	
•	LTE	N/A	

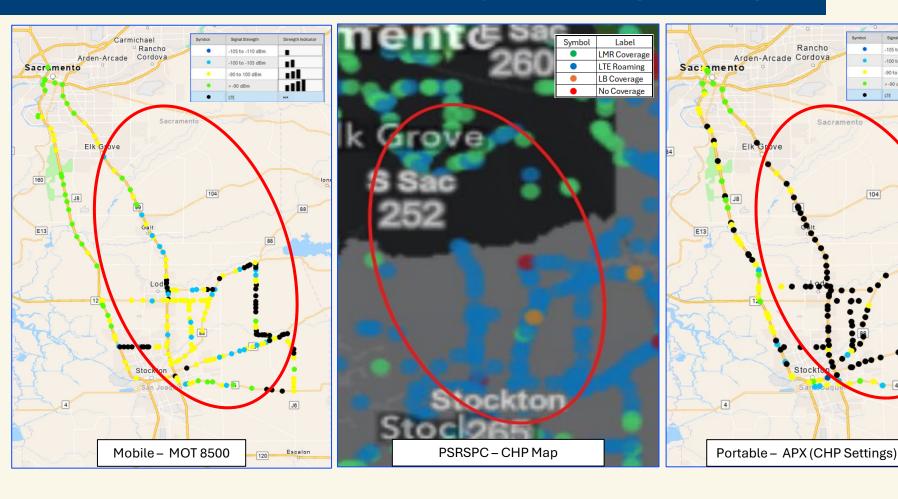




^{*}RSSI = Received Signal Strength Indicator on downlink.

^{**}Portable radio measurements were taken from within the vehicle.

- Each point represents a PTT call with its corresponding RSSI* signal level.
- All PTT calls were successfully completed.**



^{*}RSSI = Received Signal Strength Indicator.

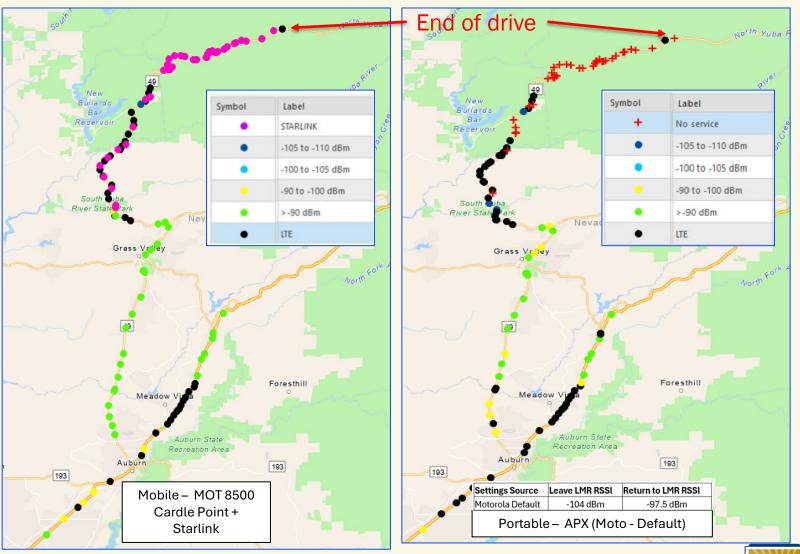


ш

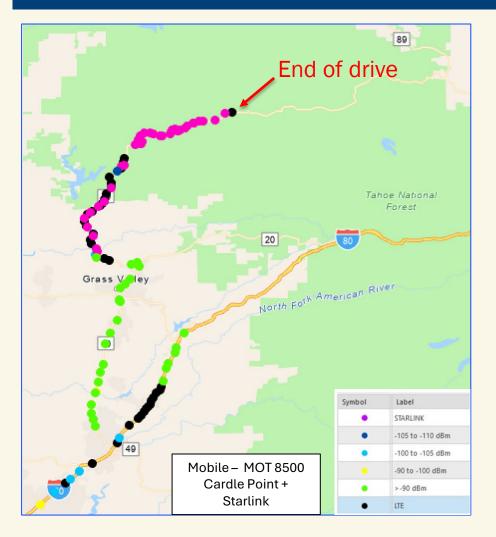
ш

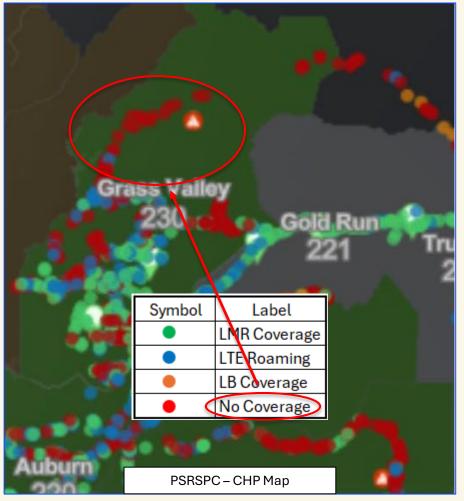
^{**}Portable radio measurements were taken from within the vehicle.

- We tested SmartConnect over satellite
- Starlink equipment was integrated with the Motorola mobile radio to test roaming over satellite









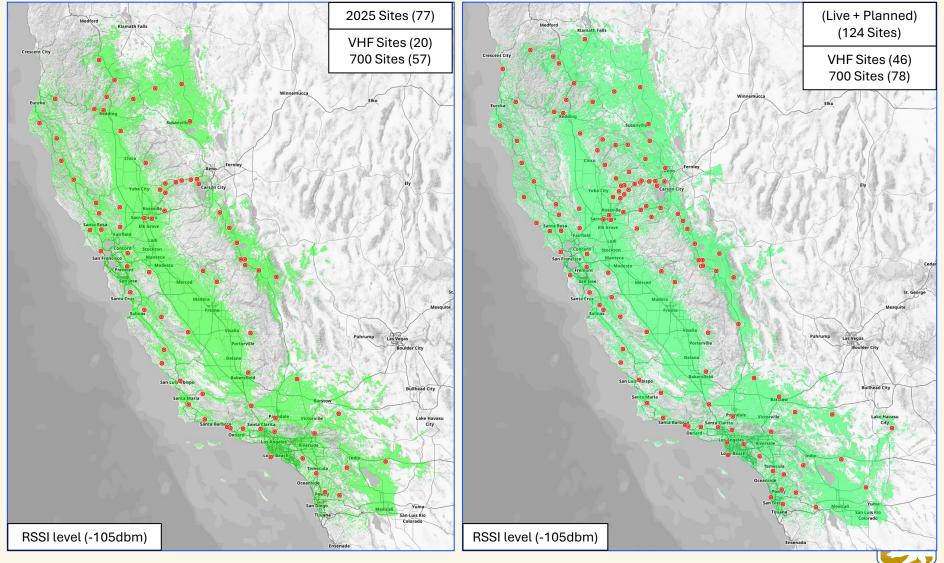


Item 7: Radio Signal Measurement Methodology

- Three different Motorola radios were used to evaluate existing CRIS coverage in sample areas identified by CHP as having poor CRIS coverage or frequent roaming on LTE.
- Test setup included:
 - Motorola 8500 Mobile Radio + Cradlepoint (Motorola SmartConnect settings)
 - Motorola APX NEXT Portable (Motorola SmartConnect settings)
 - Motorola APX NEXT Portable (CHP SmartConnect settings)
- PTT calls were placed on all three radios along designated test routes, verified for voice quality and successful completion from CALOES PSC HQ. GPS and corresponding RSSI levels were recorded and mapped for analysis.
- Cradlepoint and Starlink equipment was integrated with the mobile radio to validate SmartConnect in limited coverage areas.



Item 8: CRIS Coverage Maps





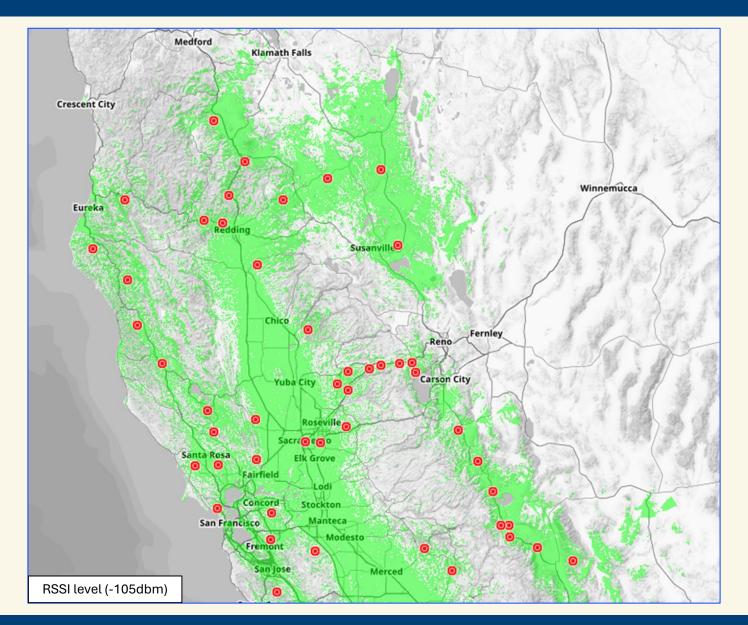
CRIS SITES

Base Station name	Group	Band	Base Station name	Group	Band
Antelope Mountain (AT&T)	Planned	VHF	Leek Spring	Planned	VHF
BaldwinHill	Planned	700MHz	N.Sac A.O.	Planned	700MHz
Beckwourth Mtn. (CHP)	Planned	VHF	Oregon Peak	Planned	VHF
Big Hill (El Dorado) (CHP)	Planned	VHF	Pacheco Pass	Planned	700MHz
Black Metal	Planned	700MHz	Peavine Ridge MW (CHP-DCM)	Planned	VHF
Black Mtn Hendrix	Planned	700MHz	Pise Mtn	Planned	700MHz
Black Mtn Imperial	Planned	700MHz	Platte Mtn (Butte) (CHP)	Planned	VHF
Black Mtn. (Lassen) (CHP)	Planned	VHF	Red Hill (Plumas) (CHP)	Planned	VHF
Bloomer Mtn. 700	Planned	VHF	Relay Peak	Planned	700MHz
Boucher Mtn. L.O. CDF	Planned	700MHz	Rocks Rd	Planned	700MHz
Colby Mtn. (CHP)	Planned	VHF	Ruby Bluff (CHP)	Planned	VHF
Cold Springs (CDF)	Planned	VHF	San Miguel Mt. (CHP)	Planned	700MHz
Coleville Antelope Valley	Planned	VHF	Scout Peak (DOT-Tower II)	Planned	VHF
Cottonwood (CHP)	Planned	VHF	Seaview (CHP)	Planned	VHF
East Bristol (CHP)	Planned	700MHz	Sierra College	Planned	700MHz
Flash II	Planned	700MHz	Signal Peak	Planned	700MHz
Gold Run	Planned	700MHz	Slater Butte (CHP)	Planned	VHF
Gunsight Peak (CHP)	Planned	VHF	Smugglers Cave (CHP)	Planned	700MHz
Hamaker Mtn Siskiyou Co (CHP)	Planned	VHF	Soledad Mtn. (DC)	Planned	700MHz
Hough Mtn (Plumas) (CHP)	Planned	VHF	Thermoland	Planned	700MHz
Howell Mtn.	Planned	VHF	Union Hill (CHP)	Planned	VHF
Iron Mtn	Planned	700MHz	Zion Mtn. (CDF)	Planned	VHF
Klamath Alder Camp OES	Planned	VHF	Seigler Mtn.	Planned	VHF
LaHabra	Planned	700MHz			

47 Planned Sites

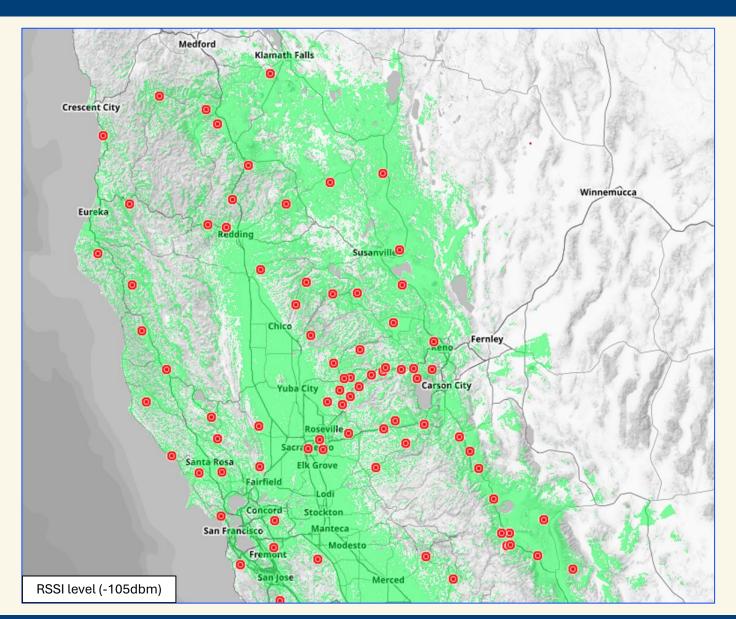


2025 Sites (NorCal)



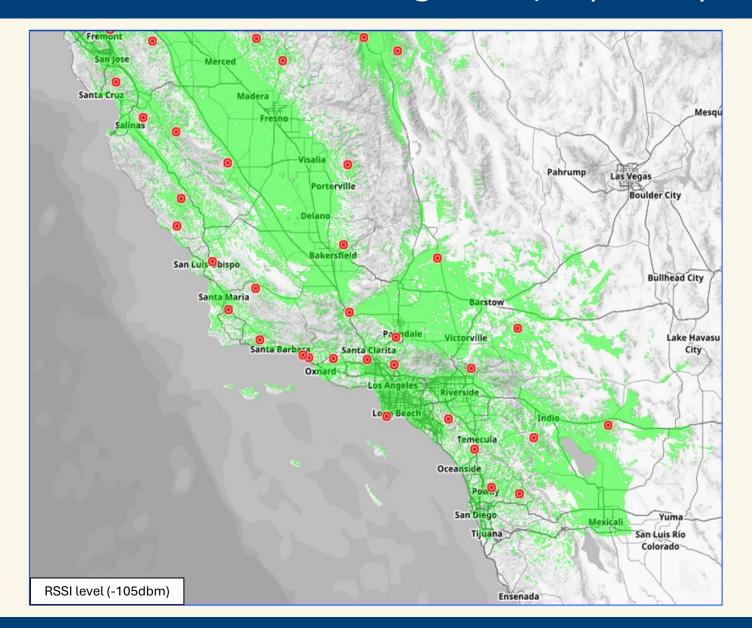


Existing + Planned Sites (NorCal)



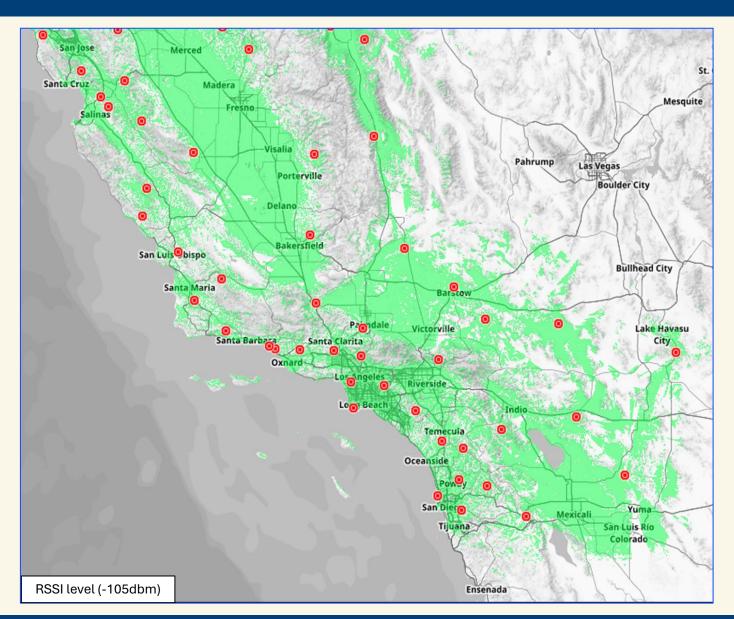


2025 Sites (SoCal)





Existing + Planned Sites (SoCal)





Item 9: Agenda Items for Future Meetings

Board requests for matters to be placed on a future agenda.

2026 PSRSPC Meeting Dates:

- February 17, 2026 10AM 12PM
- May 19, 2026 10AM 12PM (Joint meeting with CalSIEC)



Item 10: Public Comment

Public Comment for matters not on the agenda.



Item 11: Adjourn

Thank you for attending this PSRSPC meeting.

General Information:

Samantha Barton, PSRSPC Board Liaison at (916) 894-5155, or via email at Samantha.Barton@CalOES.ca.gov

Media Information:

Anita Gore, Public Information Officer at (916) 539-9480, or via email at PIO@CalOES.ca.gov

