



# California (CA)

**PSIC Federal Award: \$94,034,510**

(Awarded September 30, 2007)

## Summary

PSIC Investment Justification	Federal Funds
State Agency Investments Including Statewide Initiatives	\$15,985,867
Los Angeles Regional Interoperable Communications System	\$22,278,788
Central California Statewide Interoperability Executive Committee (CALSIEC)/Fresno UASI Interoperable Communications Project	\$5,431,433
Northern Planning Area (NPA)	\$2,444,897
Orange County and Concurrent County/City Interoperable Communications Development Plan	\$12,748,170
Bay Area Super Urban Area Security Initiative (SUASI) in coordination with the Capital/Bay Area Planning Area	\$14,941,977
Capital Public Safety Interoperable Communications Program	\$7,850,242
San Diego Urban Area and Imperial County Interoperability Improvements	\$9,532,101
Management and Administration (M&A)	\$2,821,035
Statewide Planning	-
<b>Total PSIC Award</b>	<b>\$94,034,510</b>

**Pass Through:** The State of California fulfilled the PSIC Grant Program requirement by passing through a minimum of 80 percent of the total award amount to local or tribal governments or authorized nongovernmental agencies.

**Strategic Technology Reserve (STR):** California submitted a written request for an STR waiver based on the fact that the State had previously invested \$8,000,000 in efforts to establish an STR. The State currently maintains adequate resources (e.g., redundant communications systems, mobile communications vehicles, gateways, radio caches) to re-establish communications if existing critical infrastructure is damaged or destroyed, and was therefore granted a full waiver.

## Investments

### State Agency Investments Including Statewide Initiatives



Federal Amount:	\$ 15,985,867
Non-Federal Match Amount:	\$ 2,418,820
<b>Total Project Cost:</b>	<b>\$ 18,404,687</b>

<b>66%*</b> Acquisition & Deployment	<b>4%</b> Training & Exercise	<b>30%</b> Planning & Coordination
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*\*Percentages include both Federal and non-Federal Match funds.*

This Investment supports a series of State agency projects that will address communications gaps that include outdated systems, disjointed interoperability efforts, and decentralized resource and information availability. Specific projects within the Investment include the usage of the Communications Assets Survey and Mapping Tool (CASM) to complete a State asset equipment inventory; the development and publication of an Interoperability Field Operations Guide (IFOG); and creation of a 10-Year Strategic Plan for the Public Safety Radio Strategic Planning Committee (PSRSPC). The Investment will also enhance the State's mutual aid infrastructure, support the build-out of the Operational Area Satellite Information System (OASIS), and support statewide Communications Unit Leader (COML) training. Finally, the Investment will strengthen California's overall emergency communications governance structure by providing assistance to the California Statewide Interoperability Executive Committee (CalSIEC) and the PSRSPC. With this Investment, the State will be positioned to improve communications in high risk areas, adopt advanced technological solutions, improve resource efficiency, and increase interoperability through all regions of the State.

### Los Angeles Regional Interoperable Communications System (LA-RICS)



Federal Amount:	\$ 22,278,788
Non-Federal Match Amount:	\$ 5,569,697
<b>Total Project Cost:</b>	<b>\$ 27,848,485</b>

<b>100%*</b> Acquisition & Deployment	<b>0%</b> Training & Exercise	<b>0%</b> Planning & Coordination
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*\*Percentages include both Federal and non-Federal Match funds.*

The Los Angeles/Long Beach Urban Area's 31 fire, 39 law enforcement, and public health/emergency medical services (EMS) departments currently operate on incompatible voice and data systems that operate in various bands (VHF/UHF/800MHz) and on various platforms that use different proprietary software. These disparate systems provide inadequate coverage for the region and insufficient capacity for large-scale incidents. This Investment funds the design of a combined Los Angeles/Long Beach voice and data system known as the Los Angeles Regional Interoperable Communications System (LA-RICS). The system will operate on UHF, 700 MHz, and 800 MHz frequency bands and serve all first responders in the Los Angeles/Long Beach, which is a designated Tier One Urban Area Security Initiative (UASI) area. This Investment will improve the speed and efficiency of voice and data communications for first responders and facilitate effective multi-jurisdictional, multi-disciplinary mutual aid response during routine operations and emergencies.

**Central California Statewide Interoperability Executive Committee (CalSIEC)/Fresno UASI Interoperable Communications Project**



Federal Amount:	\$ 5,431,433
Non-Federal Match Amount:	\$ 959,687
<b>Total Project Cost:</b>	<b>\$ 6,391,120</b>

<b>90%*</b> Acquisition & Deployment	<b>1%</b> Training & Exercise	<b>9%</b> Planning & Coordination
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*\*Percentages include both Federal and non-Federal Match funds.*

Fresno County is currently the only county in the region with a functioning interoperable communications system. The Fresno UASI built an interoperable network that allows voice communications between all first responders in the county by incorporating four elements: (1) dispatch consoles throughout the county to patch disparate radio channels into the system; (2) a microwave/fiber optic network to link these consoles together; (3) dual-band radios in all first responder vehicles; and (4) a portable radio cache for major incidents and mutual aid. This Investment supports the implementation of a similar communications network in the Central California Planning Area (PA), which does not currently have seamless voice and data capabilities for first responders. The California Statewide Interoperability Executive Committee (CalSIEC) voted unanimously to use PSIC funds for this Investment, which will address the Central Planning Area’s lack of regional communications interoperability and enhance the communications interoperability capabilities of the Fresno UASI region by providing funding for additional equipment and training to test the efficiency and effectiveness of the system.

**Northern Planning Area (NPA)**



Federal Amount:	\$ 2,444,897
Non-Federal Match Amount:	\$ 418,076
<b>Total Project Cost:</b>	<b>\$ 2,862,973</b>

<b>73%*</b> Acquisition & Deployment	<b>3%</b> Training & Exercise	<b>24%</b> Planning & Coordination
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*\*Percentages include both Federal and non-Federal Match funds.*

Currently, there is no single system linking jurisdictions and agencies in the California Statewide Interoperability Executive Committee’s (CalSIEC) Northern Planning Area (NPA). The region operates instead on a number of disparate and aging radio systems. This Investment will fund the development of a regional interoperable communications plan for all 18 counties in the Northern Planning Area (NPA). The proposed plan will serve as a roadmap for the development of a regional system using a “system of systems” approach. While the plan is being developed, there are several short term gaps already identified that will help address some of the immediate communications needs in the region. These projects will implement Voice over Internet Protocol (VoIP) solutions to connect emergency operations centers; develop a wireless solution to connect radio and data systems across disciplines; develop joint repeater sites in key areas within the region; develop a new microwave backbone; and acquire Project 25 (P25)-compliant radio and mobile relay equipment to enable interoperability between agencies and across jurisdictions. Successful implementation of this Investment will result in the implementation of some critical emergency communications projects, and a comprehensive regional interoperability plan to guide future technology investments.

**Orange County and Concurrent County/City Interoperable Communications Development Plan**



Federal Amount:	\$ 12,748,170
Non-Federal Match Amount:	\$ 3,959,543
<b>Total Project Cost:</b>	<b>\$ 16,707,713</b>

<b>100%*</b> Acquisition & Deployment	<b>0%</b> Training & Exercise	<b>0%</b> Planning & Coordination
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*\*Percentages include both Federal and non-Federal Match funds.*

Orange, Inyo, Mono, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, and Ventura Counties and the City of Ventura face numerous obstacles to interoperability. There is a wide range of legacy systems and limited interoperability between those systems. Additionally, dispatch consoles with P25 capability are limited or non-existent. This Investment will develop an inter-county system, which includes using repeaters, microwave links, computer aided dispatch systems, P25-compliant dispatch consoles, and portable radios. This Investment will upgrade and link disparate systems and equipment across the eight counties and enable interoperability and data communications through advanced technology.

**Bay Area Super Urban Area Security Initiative (SUASI) in coordination with the Capital/Bay Area Planning Area**



Federal Amount:	\$ 14,941,977
Non-Federal Match Amount:	\$ 3,733,404
<b>Total Project Cost:</b>	<b>\$ 18,675,381</b>

<b>100%*</b> Acquisition & Deployment	<b>0%</b> Training & Exercise	<b>0%</b> Planning & Coordination
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*\*Percentages include both Federal and non-Federal Match funds.*

In the Bay Area, there are presently five different bandwidths utilized by local public safety agencies. The region's fragmented assignment of frequencies over the past decades has resulted in a patchwork of disparate public safety voice and data communications networks that have coverage gaps and limited interoperability between users of these disparate systems. In addition, many Bay Area agencies are experiencing congestion on their radio systems due to the lack of available frequencies in the 150/450/490/800 MHz bands. This Investment addresses these communications gaps through the build-out of the Bay Area Regional Communication System (BARCS), a hybrid 150/700/800 MHz P25-compliant network that will provide seamless interoperability throughout the area and along the I-80 corridor to Sacramento. The Investment will provide three P25 master sites and twenty 700 MHz radio sites with a total of 162 channels deployed. The build-out will focus on high-risk areas, including the Bay Area SUASI, and transportation corridors in six Bay Area counties. This Investment will increase the number of agencies that are interoperable, enable agencies to "roam" throughout the Bay Area, and allow agencies to communicate seamlessly with other public safety agencies and with their own dispatch centers.

## Capital Public Safety Interoperable Communications Program



Federal Amount:	\$ 7,850,242
Non-Federal Match Amount:	\$ 1,717,560
<b>Total Project Cost:</b>	<b>\$ 9,567,802</b>

<b>90%*</b> Acquisition & Deployment	<b>1%</b> Training & Exercise	<b>9%</b> Planning & Coordination
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*\*Percentages include both Federal and non-Federal Match funds.*

Population growth in California's Central Valley has resulted in an increasing number of cross-jurisdictional and cross-discipline public safety efforts. This trend has exposed a variety of communications coverage issues and limitations, including a restricted ability to exchange voice, data, and video communications across jurisdictions and disciplines. Thus, there is a pressing need to address these communications issues as this region faces a heightened risk of flooding. This Investment is a collaboration between the Sacramento UASI, Sacramento Regional Radio Communications System (SRRCS) Consortium, and seven of the ten non-UASI counties in the Capital-Bay Planning Area, which will use PSIC funding to establish direct communications (voice, data, and video) links among public safety entities in the CalSIEC Capital-Bay Planning Area. This Investment reflects the priorities of the State and region by improving communications in areas at risk for natural disasters, by funding Investments that can support the migration to a Project 25 system, and by establishing critical links for public safety agencies operating across jurisdictions within the Capital-Bay Planning Area.

## San Diego Urban Area and Imperial County Interoperability Improvements



Federal Amount:	\$ 9,532,101
Non-Federal Match Amount:	\$ 1,875,000
<b>Total Project Cost:</b>	<b>\$ 11,407,101</b>

<b>93%*</b> Acquisition & Deployment	<b>7%</b> Training & Exercise	<b>0%</b> Planning & Coordination
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*\*Percentages include both Federal and non-Federal Match funds.*

Local first responders in the San Diego Urban Area (SDUA) operate on two shared 800 MHz radio systems – the Regional Communications System (RCS) and the City of San Diego Radio System (CITY). While there is extensive voice interoperability between users of these two systems, data communications systems are disparate and the shared-system technology used is proprietary, which limits interoperability and the open exchange of information. The SDUA has developed a number of sites to provide multi-band gateways between users of these shared systems and other government users who are not equipped to operate on one of these two networks. However, these gateways do not provide coverage in many of the rural areas of the two counties or for users from the greater Los Angeles area, where UHF is used extensively. This Investment provides funding for enhancements to the larger system, which will enable interoperable communications between users of the RCS and CITY and Federal, State, tribal and local users. The SDUA will implement open standard, IP-based solutions to enable voice and data communications between multiple agencies at all levels of government, across jurisdictions, and beyond the greater San Diego Urban Area. This Investment will link disparate systems, increase intergovernmental communication, reduce operational interoperability gaps for first responders, and provide training for end-users to improve awareness and knowledge of available communication solutions.

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## PSIC Administration and Statewide Planning Costs

### Management and Administration (M&A)

Federal Amount:	\$ 2,821,035
Non-Federal Match Amount:	\$ 564,207
<b>Total Project Cost:</b>	<b>\$ 3,385,242</b>

The State was allowed to retain up to three percent of the total PSIC award for costs associated with the administration of the State's PSIC Investments. The M&A costs could include hiring full-time or part-time staff or contractors for grant management services related to reporting, monitoring and audit compliance, and associated travel and meeting expenses.

### Statewide Planning

Federal Amount	\$ 0
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The State was allowed to retain up to five percent of the total PSIC award for Statewide Planning costs associated with the incorporation of the PSIC criteria into the Statewide Communication Interoperability Plan (SCIP). The Statewide Planning period of performance was April 1, 2007– December 3, 2007, with the submission of the SCIP. California chose not to allocate its PSIC funds in this manner.

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