



# Hawaii (HI)

**PSIC Federal Award: \$8,069,879**

(Awarded September 30, 2007)

## Summary

PSIC Investment Justification	Federal Funds
Transportable Repeater Interoperability Packages — Strategic Technology Reserve (STR)	\$1,500,000
Satellite Phones — STR	\$194,879
Hawaii Island Region Interoperable Channel, Radio over Internet Protocol (RoIP) Interface and Data Channel	\$1,275,000
Honolulu Urban Area Multi-jurisdictional/Multi-discipline Interoperability Project for Preparation for Terrorist or Natural Disaster	\$1,275,000
County of Kauai — RoIP, Field Data and Voice Capabilities	\$1,275,000
Statewide Shared Blended (SSB) System — Phase I for County of Maui and the State of Hawaii	\$2,550,000
Management and Administration (M&A)	-
Statewide Planning	-
<b>Total PSIC Award</b>	<b>\$8,069,879</b>

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

**Strategic Technology Reserve (STR):** Hawaii allocated \$1,694,879 to its STR through two PSIC Investments.

## Investments

### Transportable Repeater Interoperability Packages— Strategic Technology Reserve (STR)



Federal Amount:	\$ 1,500,000
Non-Federal Match Amount:	\$ 0
<b>Total Project Cost:</b>	<b>\$ 1,500,000</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.*

Hawaii's ability to re-establish tactical voice communications and support its counties' existing radio systems following catastrophic events is limited. This Investment addresses this communications gap by funding the purchase of at least 10 transportable repeater packages that will be equipped with ultra high frequency (UHF), very high frequency (VHF), and 800 megahertz (MHz) repeaters, programmed with national and regional mutual aid channels. The packages will also include two dual-port Internet Protocol (IP) remote adapter panels to allow these resources to be easily managed by a laptop computer. A minimum of two repeater packages will be deployed to each county and two to the State of Hawaii. This Investment will provide each jurisdiction access to limited radio communications until the primary radio system is repaired. This Investment satisfies the program requirement to develop and implement an STR that is pre-positioned, deployable, and able to re-establish communications when critical communications equipment is damaged or destroyed.

### Satellite Phones—STR



Federal Amount:	\$ 194,879
Non-Federal Match Amount:	\$ 0
<b>Total Project Cost:</b>	<b>\$ 194,879</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.*

Hawaii's Federal, State, local, private sector, and nonprofit partners' ability to re-establish communications following a catastrophic event is limited, which compromises the State's ability to coordinate emergency response efforts. This Investment addresses this communications gap by funding a cache of satellite phones. The satellite phones will expand voice communications statewide and provide radio coverage when other methods of communications are damaged or destroyed during a disaster. This Investment satisfies the program requirement to develop and implement an STR that is pre-positioned, deployable, and able to re-establish communications when critical communications systems are damaged or destroyed.

**Hawaii Island Region Interoperable Channel, Radio over Internet Protocol (RoIP) Interface and Data Channel**



Federal Amount:	\$ 1,275,000
Non-Federal Match Amount:	\$ 330,000
<b>Total Project Cost:</b>	<b>\$ 1,605,000</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.*

Hawaii does not currently have a regional radio frequency (RF) channel for interoperability. The State’s ability to send and receive data, by radio, is limited. This Investment addresses this communications gap by establishing a dedicated interoperable RF mutual aid command channel with region-wide coverage. This Investment will utilize Radio over Internet Protocol (RoIP) to allow regional access to the primary communications system and nodes to the Digital Signal 3 (DS3) to allow region-wide data access. The new communications infrastructure will provide radio and data "plug and play" capability; in addition, voice and data will be “patched” into and out of the system via IP. Consequently, this Investment will enhance interoperability by providing improved data capabilities and a regional mutual aid channel for first responders.

**Honolulu Urban Area Multi-jurisdictional/Multi-discipline Interoperability Project for Preparation for Terrorist Attacks or Natural Disasters**



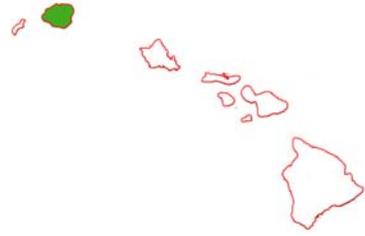
Federal Amount:	\$ 1,275,000
Non-Federal Match Amount:	\$ 330,000
<b>Total Project Cost:</b>	<b>\$ 1,605,000</b>

<b>97%*</b> Acquisition & Deployment	<b>3%</b> Training & Exercise	<b>0%</b> Planning & Coordination
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*\*Percentages include both Federal and non-Federal Match funds.*

Currently, Oahu’s first responders have limited interoperable capabilities with the State of Hawaii’s 700 MHz radio users, nongovernmental organizations (NGO), and secondary response agencies. This Investment will address this gap by funding a radio cache, which will include approximately 1,500 700/800 MHz radios that will be capable of communicating on the Island’s shared radio system and the State of Hawaii’s existing 700 MHz radio system. Radios will be installed into first responder units and provided directly to authorized NGOs. With the new radios, the island of Oahu will be better able to communicate directly with regional and State first responders, State of Hawaii governmental agencies, and secondary response agencies.

## County of Kauai—RoIP, Field Data and Voice Capabilities



Federal Amount:	\$ 1,275,000
Non-Federal Match Amount:	\$ 330,000
<b>Total Project Cost:</b>	<b>\$ 1,605,000</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.*

Currently, Federal and State public safety agencies and NGOs are allowed access to the Kauai County 800 MHz trunked radio system. The increase in users has strained the system's capacity, resulting in potential system overload, radio coverage dead spots, and repeater failure. This Investment is a two-phase project (1) to design, plan, and coordinate the purchase of equipment to migrate to RoIP technology and (2) to purchase mobile field tactical equipment to provide satellite, wireless local area network systems, voice over internet protocol (VoIP) subsystems, and Project 25 (P25)-compliant land mobile radios. In addition, portable field-deployable repeaters will help to reduce the load on the existing radio system and enable communications in areas with dead-spots, including restoring capacity in the event an existing repeater fails.

## Statewide Shared Blended (SSB) System— Phase I for County of Maui and the State of Hawaii



Federal Amount:	\$ 2,550,000
Non-Federal Match Amount:	\$ 2,010,000
<b>Total Project Cost:</b>	<b>\$ 4,560,000</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.*

Currently, State and county public safety agencies operate on incompatible voice radio systems, making interoperable communications difficult. This Investment will be the first phase in the development of the Statewide Shared Blended (SSB) system and will be based on shared-use, blended land mobile radios (LMR) with dual bands and Internet Protocol (IP) access. Phase I of the project will cover Maui and portions of Oahu. Single channel conventional 800 MHz repeaters will be installed at Maui sites using State channels. The system will eliminate the current need for users to carry multiple radios in order to communicate. First responders will be able to access existing county systems or the new P25 blended system of 700 MHz trunked and 800 MHz conventional repeaters. In the future, other agencies and regional systems will be able to migrate to this system or be linked to it via robust IP interconnections.

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## PSIC Administration and Statewide Planning Costs

### Management and Administration (M&A)

Federal Amount:	\$	0
Non-Federal Match Amount:	\$	0
<b>Total Project Cost:</b>	<b>\$</b>	<b>0</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. Hawaii, however, chose not to allocate its PSIC funds in this manner.

### 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. Hawaii, however, chose not to allocate its PSIC funds in this manner.

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