



# New Jersey (NJ)

**PSIC Federal Award: \$30,806,646**

(Awarded September 30, 2007)

## Summary

PSIC Investment Justification	Federal Funds
Strategic Technology Reserve (STR)—Deployable Systems	\$2,726,267
Radio Caches—Strategic Technology Reserve (STR) in Certain Counties	\$1,285,000
New Jersey Interoperability Communications System—Gateway Network	\$3,004,600
Regional Repeater Deployment	\$3,390,000
Incident Commanders Data Communications System	\$1,479,280
Project 25 (P25) 700 Megahertz (MHz) Trunked Radio System	\$16,697,300
Port Authority Trans Hudson (PATH) Interoperability System	\$1,000,000
Management and Administration (M&A)	\$924,199
Statewide Planning	\$300,000
<b>Total PSIC Award</b>	<b>\$30,806,646</b>

**Pass Through:** The New Jersey Office of Homeland Security and Preparedness entered into Memoranda of Understanding with the local counties. The agreements authorize the New Jersey Office of Homeland Security and Preparedness to expend PSIC Grant Funding on behalf of these counties.

**Strategic Technology Reserve (STR):** New Jersey allocated \$2,726,267 to its STR Investment.

## Investments

### Strategic Technology Reserve (STR) — Deployable Systems



Federal Amount:	\$ 2,726,266
Non-Federal Match Amount:	\$ 562,500
<b>Total Project Cost:</b>	<b>\$ 3,288,766</b>

<b>86%*</b> Acquisition & Deployment	<b>8%</b> Training & Exercise	<b>6%</b> Planning & Coordination
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*\*Percentages include both Federal and non-Federal Match funds.*

This Investment will address the need for a stand-alone deployable radio communications system within the State of New Jersey. The State will purchase two communication sites-on-wheels (SOW) with accompanying caches of portable radios to provide backup and redundant communications in the event critical infrastructure is damaged or destroyed. The SOWs are self-contained and transportable, and equipped with their own generators, fuel, erectable tower, and antenna systems. The SOWs will utilize a 700 MHz Project 25 (P25) trunking protocol to maximize the number of talkgroups available and will use conventional mutual aid frequencies to facilitate a coordinated response. This Investment will also fund the development of a training program for all users, including Communications Unit Leaders (COML), and Communications Unit Technicians (COMT). This Investment satisfies the PSIC Program requirement to develop and implement an STR that is pre-positioned, deployable, and able to re-establish communications when critical communications infrastructure is damaged or destroyed.

### Radio Caches—STR in Certain Counties



Federal Amount:	\$ 1,285,000
Non-Federal Match Amount:	\$ 280,000
<b>Total Project Cost:</b>	<b>\$ 1,565,000</b>

<b>90%*</b> Acquisition & Deployment	<b>8%</b> Training & Exercise	<b>2%</b> Planning & Coordination
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*\*Percentages include both Federal and non-Federal Match funds.*

Fifteen counties in the State of New Jersey have been provided a cache of Project 25 (P25) capable radios and three P25 capable suitcase repeaters each. Six counties have not received a cache of radios. This Investment will enable the State to purchase and distribute 200 VHF, 200 UHF, and 200 800 MHz P25 capable radios, chargers, batteries and accessories for use by each of the six counties in the event of an emergency. Each county will receive approximately 33 radios that are able to operate in each of the three frequency bands. Training will be included for all cache radio operators, Communications Unit Leaders (COML) and Communications Unit Technicians (COMT). This Investment provides a distribution of standardized equipment throughout the counties, improves interoperability for all users, and satisfies the PSIC Program requirement to develop and implement an STR that is pre-positioned, deployable, and able to re-establish communications when critical communications infrastructure is damaged or destroyed.

## New Jersey Interoperability Communications System—Gateway Network



Federal Amount:	\$ 3,004,600
Non-Federal Match Amount:	\$ 569,000
<b>Total Project Cost:</b>	<b>\$ 3,573,600</b>

<b>80%*</b> Acquisition & Deployment	<b>13%</b> Training & Exercise	<b>7%</b> Planning & Coordination
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*\*Percentages include both Federal and non-Federal Match funds.*

The State of New Jersey is planning the construction of stand-alone repeaters and base stations that can use national and statewide Mutual Aid Calling and Tactical frequencies in the VHF, UHF, and 800 MHz bands. In many cases, these stand-alone systems are not connected to any central regional control point. Regional control points have the capability to set up patches or other connections to create regional interoperability networks or patches to local jurisdiction frequencies. This Investment will implement a network of gateways that will enable interoperable communications between regional and State police dispatch centers using Voice over Internet Protocol (VoIP). Training for system users, managers, dispatchers, Communications Unit Leaders (COML), and Communications Unit Technicians (COMT) will be provided. This Investment will create a network that first responders can access, regardless of frequency band or signaling protocol, and enable multi-disciplinary and multi-jurisdictional interoperability between first responders for any incident. It will also provide voice interoperability between regional and State dispatch centers and wide-area coverage to increase the use of mutual aid frequencies. Lastly, this Investment will provide the capacity to interoperate with the New Jersey National Guard and interconnect with a similar network being installed in the Delaware River region that will enable interoperability between New Jersey, Pennsylvania, and Delaware.

## Regional Repeater Deployment



Federal Amount:	\$ 3,390,000
Non-Federal Match Amount:	\$ 720,000
<b>Total Project Cost:</b>	<b>\$ 4,110,000</b>

<b>88%*</b> Acquisition & Deployment	<b>5%</b> Training & Exercise	<b>7%</b> Planning & Coordination
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*\*Percentages include both Federal and non-Federal Match funds.*

The State of New Jersey is planning the construction of stand-alone repeaters and base stations using national and statewide Mutual Aid Calling and Tactical frequencies in the VHF, UHF, and 800 MHz bands. New Jersey is using PSIC funds to establish a gateway network to interconnect these base stations to create a statewide Internet Protocol (IP)-based system. Currently, New Jersey does not have enough base stations installed outside the UASI region to make this system viable. This Investment will allow the State to procure at least eight base stations and associated antenna systems for each gateway unit. These base stations will build-out the infrastructure in the non-Urban Area Security Initiative (UASI) areas of the State and create a viable statewide Internet Protocol (IP)-based network that can support Mutual Aid Calling and Tactical frequencies in VHF, UHF, and 800 MHz bands. The State will provide training on the use of the gateways. This Investment will expand coverage and enable interoperability among responders and users operating on varying frequencies through the use mutual aid frequencies operating on a statewide IP-based system.

## Incident Commanders Data Communications System (ICDCS)



Federal Amount:	\$ 1,479,280
Non-Federal Match Amount:	\$ 225,820
<b>Total Project Cost:</b>	<b>\$ 1,705,100</b>

<b>66%*</b> Acquisition & Deployment	<b>16%</b> Training & Exercise	<b>18%</b> Planning & Coordination
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*\*Percentages include both Federal and non-Federal Match funds.*

Currently, the State does not have a mobile system that allows intelligence and information to be shared among the local Incident Commanders. To improve information sharing among local Incident Commanders at the scene of the incident, the State will provide a mobile interoperable data communications system that will provide Incident Commanders access to the Emergency Preparedness Information Network system (EPINet). Two EPINet Incident Commander Access Systems (EICAS) will be provided for each county for use by Incident Commanders. This web-based system provides access to all critical databases through a common website, sharing access to data through interoperable channels in the field and for Incident Command. In addition, system training, exercises, and drills will be conducted as systems are delivered and brought on-line. This Investment is expected to result in greater information sharing of data and intelligence at the scene of an incident, enhancing public safety communications and response capabilities available to Incident Commanders.

## P25 700 MHz Trunked Radio System



Federal Amount:	\$ 16,697,300
Non-Federal Match Amount:	\$ 3,875,000
<b>Total Project Cost:</b>	<b>\$ 20,572,300</b>

<b>94%*</b> Acquisition & Deployment	<b>3%</b> Training & Exercise	<b>3%</b> Planning & Coordination
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*\*Percentages include both Federal and non-Federal Match funds.*

Northern New Jersey is the most densely populated region of the State. Over 150 public safety agencies with over 350 radio systems operate in the region. There is limited ability to communicate across jurisdictions and disciplines. Currently, public safety agencies operate on a mix of VHF, UHF, and 800 MHz systems using conventional trunked and P25 Common Air Interface (CAI). Coverage of local systems is often limited to the local jurisdictions they support. This Investment provides funding for a new Project 25 (P25) 700/800 MHz regional trunked radio system with the capacity and coverage to serve all first responders in the region. The system will use existing tower, microwave, and resources available from the State and local systems wherever possible. Training programs will be developed to ensure a high level of user competence and acceptance. The Investment will result in a single system covering the Northern New Jersey region and the New Jersey Tier 1 UASl area, serving first responders, State agencies, counties, municipalities, the Port Authority of New and New Jersey, and nongovernmental agencies. The system will create a standards-based shared system that can interface with existing systems and expand for further build-out throughout the State. This Investment will provide a means to achieve the highest level of interoperability for the region.

**Port Authority Trans Hudson (PATH)  
Interoperability System**

Federal Amount:	\$ 1,000,000
Non-Federal Match Amount:	\$ 250,000
<b>Total Project Cost:</b>	<b>\$ 1,250,000</b>



<b>84%*</b> Acquisition & Deployment	<b>8%</b> Training & Exercise	<b>8%</b> Planning & Coordination
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*\*Percentages include both Federal and non-Federal Match funds.*

Currently, the Port Authority Police is the only first responder agency that maintains permanent communications capabilities at the subterranean level within the Port Authority Trans Hudson (PATH) Railroad system. For any type of emergency response, first responder agencies must “buddy up” with a Port Authority Police officer equipped with VHF radio. For any incident that is mid-tunnel under the Hudson River, New York City and New Jersey responders have no way to communicate with one another at the subterranean level or with the Port Authority Police Department. This Investment seeks to supply the Port Authority Police, NYPD, the Fire Department of New York (FDNY), and other first responder agencies throughout the New York City and New Jersey Urban Area with a shared system for interoperable communications and builds upon the existing Port Authority 800 MHz system. The geographic area covered by this Investment includes the New York City SUASI and the Jersey City/Newark Area SUASI.

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## PSIC Administration and Statewide Planning Costs

### Management and Administration (M&A)

Federal Amount:	\$ 924,199
Non-Federal Match Amount:	\$ 231,050
<b>Total Project Cost:</b>	<b>\$ 1,155,249</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	\$300,000
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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.

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