



Michigan (MI)

PSIC Federal Award: \$25,039,781

(Awarded September 30, 2007)

Summary

PSIC Investment Justification	Federal Funds
Establish a Robust Strategic Technology Reserve (STR)	\$1,939,294
Michigan Public Safety Communications System (MPSCS) Technology Upgrade	\$2,406,485
Enhance Voice and Data Interoperability Between and Within State Agencies and Between State Agencies and Local Jurisdictions	\$1,382,419
Establish and Enhance Multi-Disciplined Interoperability in Southwestern and Central Michigan	\$7,721,632
Enhance Voice and Data Interoperability and Provide Critical Communications Functions in Southeast Michigan	\$5,173,648
Enhance and Promote Advanced Interoperability in Northern Michigan by Expanding the Statewide Network and Ensuring Regional Interoperable Communications	\$5,585,110
Management and Administration (M&A)	\$751,193
Statewide Planning	\$80,000
Total PSIC Award	\$25,039,781

Pass Through: The State of Michigan 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): Michigan allocated \$1,939,294 to its STR Investment.

Investments

Establish a Robust Strategic Technology Reserve (STR)

Federal Amount:	\$ 1,939,294
Non-Federal Match Amount:	\$ 519,740
Total Project Cost:	\$ 2,459,034



98%* Acquisition & Deployment	2% Training & Exercise	0% Planning & Coordination
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**Percentages include both Federal and non-Federal Match funds.*

The Michigan Public Safety Communications System (MPSCS) is largely dependent on fixed infrastructure which may not always provide optimal coverage and capacity. Therefore, the State will purchase a Site-on-Wheels (SOW), three networked portable dispatch Internet Protocol (IP) consoles, and a Rapid Response Communications Vehicle (RRCV). Designed to address capacity issues and service interruptions, the RRCV will consist of satellite phones, data messaging devices, and wireless Voice over Internet Protocol (VoIP) services. This Investment satisfies the program requirement to develop and implement an STR that is pre-positioned, deployable, and able to reestablish communications when critical communications equipment is damaged or destroyed. MPSCS staff will receive training from the vendor on operating and maintenance of the SOW and the IP consoles.

Michigan Public Safety Communications System (MPSCS) Technology Upgrade

Federal Amount:	\$ 2,406,485
Non-Federal Match Amount:	\$ 601,625
Total Project Cost:	\$ 3,008,110



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

The MPSCS must be upgraded with the latest technologies in order to enable first responders to share voice and data information on demand and in real time. Without the upgrade, the State will be unable to integrate additional large urban counties that are planning to join the system. This Investment will upgrade the MPSCS software which impacts all current and future subscribers to the MPSCS and will include flash upgrades to 225 towers and the current 40,000 radios. Public safety agencies across the State will benefit from this Investment, including the Detroit Urban Area Security Initiative (UASI).

Enhance Voice and Data Interoperability Between and Within State Agencies and Between State Agencies and Local Jurisdictions



Federal Amount:	\$ 1,382,419
Non-Federal Match Amount:	\$ 377,715
Total Project Cost:	\$ 1,760,134

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

In the State of Michigan, only 438 of 777 mobile units are equipped with Mobile Data Computers (MDC). Through this Investment, the State will purchase 75 MDCs for shared use in 164 Michigan State Police (MSP) vehicles. This investment also provides for the purchase of videoconferencing equipment and mobile radios. Videoconferencing capabilities will be available during emergency operations in the Emergency Coordination Center (ECC). Additional MPSCS radio equipment and MDCs will ensure State agencies are able to effectively communicate during emergencies. Overall, this Investment will result in improved inter-agency communications as well as enhanced communications among State and local public safety agencies.

Establish and Enhance Multi-Disciplined Interoperability in Southwestern and Central Michigan



Federal Amount:	\$ 7,721,632
Non-Federal Match Amount:	\$ 1,916,275
Total Project Cost:	\$ 9,637,907

98%* Acquisition & Deployment	1% Training & Exercise	1% Planning & Coordination
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**Percentages include both Federal and non-Federal Match funds.*

There currently exists a wide disparity of communications systems in use throughout Southwestern and Central Michigan (Homeland Security Regions 1, 5, and 6). For example, in areas utilizing the statewide MPSCS, some coverage gaps exist and not all response agencies are on the system. The remaining agencies operate with a mix of VHF, UHF, and 800 MHz analog systems. The proposed solution for Region 1 is upgrading existing radio systems by reprogramming and/or replacing mobile and portable radio equipment incapable of operating in the narrow bandwidth. Region 5 will construct an MPSCS tower and provide mobile 800 MHz radios for fire departments and all Advanced Life Support units in the region. Region 6 will procure portable and mobile 800 MHz radios for use with the MPSCS and provide dispatch connectivity by upgrading systems lacking the functionality to switch frequencies. These efforts will increase interoperability between public safety disciplines, tribal agencies, and bordering jurisdictions.

Enhance Voice and Data Interoperability and Provide Critical Communications Functions in Southeast Michigan



Federal Amount:	\$ 5,173,648
Non-Federal Match Amount:	\$ 1,246,819
Total Project Cost:	\$ 6,420,467

96%* Acquisition & Deployment	<1% Training & Exercise	4% Planning & Coordination
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**Percentages include both Federal and non-Federal Match funds.*

Voice and data coverage through MPSCS is limited in Southeast Michigan including Bay and Wayne Counties and some areas are reaching capacity due to a large number of users. Moreover, although there are many MPSCS towers in Detroit (Wayne County), there is limited portable coverage and space available on MPSCS for additional users in the greater Wayne County area. This Investment addresses regional voice and data issues facing Southeast Michigan by building a MPSCS tower to expand existing coverage and strengthen existing signals, as well as add additional users without diminishing the grade of service. This Investment will enable additional counties to buy portable and mobile radio caches as a local strategic technology reserve. Additionally, enhancements will be made to gateways to interoperate with MPSCS and dual mode radios will be purchased for use in a cache. Gateways will be purchased to link dispatch centers to MPSCS, and some counties will purchase Computer Automated Dispatch (CAD) links for existing CAD systems in their Emergency Operation Centers (EOC). Together, these projects will address coverage and capability challenges in the greater Wayne County area. The geographic area covered by this Investment includes the Detroit UASI.

Enhance and Promote Advanced Interoperability in Northern Michigan by Expanding the Statewide Network and Ensuring Regional Interoperable Communications



Federal Amount:	\$ 5,585,110
Non-Federal Match Amount:	\$ 1,425,333
Total Project Cost:	\$ 7,010,443

99%* Acquisition & Deployment	<1% Training & Exercise	<1% Planning & Coordination
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**Percentages include both Federal and non-Federal Match funds.*

Data capabilities are limited or unavailable in Northern Michigan. Furthermore, some communications systems are reaching capacity due to limited channels-to-user ratios. The Upper Peninsula needs additional communications capacity and redundancy in key communications areas. This Investment will provide for the upgrade of MPSCS tower sites by adding repeaters and upgrading a critical microwave link. This investment will also provide for the purchase of 800 MHz radios, mobile data computers, integrated voice and data (IV&D) radio technology, and a cache of radios for use in emergencies. All projects within this investment are seen as priorities for each region and promote the highest level of interoperability.

PSIC Administration and Statewide Planning Costs

Management and Administration (M&A)

Federal Amount:	\$ 751,193
Non-Federal Match Amount:	\$ 187,799
Total Project Cost:	\$ 938,992

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	\$ 80,000
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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.
