



Ohio (OH)

PSIC Federal Award: \$29,377,337

(Awarded September 30, 2007)

Summary

PSIC Investment Justification	Federal Funds
Interoperable Communications Vehicle Enhancement—Strategic Technology Reserve (STR)	\$176,000
Expand/Upgrade Multi-Agency Radio Communication System (MARCS) 800 Megahertz (MHz) System	\$5,337,753
Northwest Ohio Regional Radio Project (NWORRP)	\$11,506,371
Henry County (Rural Northwest Ohio) Incident Command	\$383,220
Stark County and Canton City 800 MHz Radio System Merge	\$2,704,000
Delaware County Combined 800 MHz Radio System	\$1,529,000
Lake County Interoperable Communications Project	\$1,920,000
Cuyahoga Multi-Agency Radio Communications System	\$4,852,160
Meigs County Incident Command Enhancement	\$50,400
Carroll County Incident Command	\$778,433
Management and Administration (M&A)	\$140,000
Statewide Planning	-
Total PSIC Award	\$29,377,337

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

Strategic Technology Reserve (STR): The State of Ohio submitted a written request for a partial waiver of the STR requirement. The State demonstrated that it has several mobile communications vehicles that serve as replacements or operate as stand-alone sites to provide communications in an area where systems are inoperable. The State will spend \$176,000 of the original apportioned STR funds (\$2,275,232) to the Interoperable Communications Vehicle Enhancement Investment.

Investments

Interoperable Communications Vehicle Enhancement— Strategic Technology Reserve (STR)



Federal Amount:	\$ 176,000
Non-Federal Match Amount:	\$ 44,000
Total Project Cost:	\$ 220,000

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

Each of Ohio's eleven interoperable communications vehicles was designed to provide emergency communications support to all first responder disciplines. Vehicles are used in emergencies, exercises and special events. After several deployments, operational shortfalls were identified, including limited portable coverage in some areas. This Investment enhances Ohio's Strategic Technology Reserve (STR) capability by installing in-band 700/800 MHz repeater and antenna systems into all interoperable communications vehicles. This installation will provide 700/800 MHz band coverage in remote areas and improve portable coverage by reducing dead zones. 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.

Expand/Upgrade Multi-Agency Radio Communication System (MARCS) 800 Megahertz (MHz) System



Federal Amount:	\$ 5,337,753
Non-Federal Match Amount:	\$ 1,334,439
Total Project Cost:	\$ 6,672,192

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

Ohio's statewide system, Multi-Agency Radio Communications System (MARCS), is nearing capacity. This Investment proposes to upgrade the current infrastructure to a Project 25 (P25) 700/800 megahertz (MHz) platform to increase system and spectrum capacity necessary to support additional radios and talkgroups. The MARCS expansion will improve public safety interoperability in the State by enhancing connectivity between current and future subscribers. Through this Investment, MARCS will also be able to seamlessly join the 7.x platform being finalized in the Lucas County/Toledo area with the Butler County area and the planned build-out in the Cleveland/Cuyahoga County and northeastern shore areas.

Northwest Ohio Regional Radio Project (NWORRP)



Federal Amount:	\$ 11,506,371
Non-Federal Match Amount:	\$ 2,876,592
Total Project Cost:	\$ 14,382,963

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

The Northwest Ohio Regional Radio Project (NWORRP) incorporates seven counties and over 143 public safety agencies. Currently, this region uses analog VHF legacy systems and experiences frequent coverage lapses and interference. When incidents occur within the region, VHF channels are quickly overwhelmed. In addition, when agencies outside of the area respond, there is an urgent need for common frequencies and compatible radios that hinders their ability to communicate and coordinate a response. This Investment will enable the integration of the seven northwest counties into the statewide MARCS system, resulting in the roll out of a 700/800 MHz digital trunked system for all of the counties in the NWORRP and the swapping of VHF radios with 700/800 Project 25 (P25) radios. This solution will enhance interoperability by providing seamless coverage across the region, compatibility with subscriber equipment, and connectivity with the statewide system.

Henry County (Rural Northwest Ohio) Incident Command



Federal Amount:	\$ 383,220
Non-Federal Match Amount:	\$ 95,805
Total Project Cost:	\$ 479,025

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

Currently, there is a single tower located in the north-central portion of the County that does not provide adequate coverage for the area, utilizing the current VHF Analog Simplex system. Usage of the system beyond ten miles of the tower requires mobile radios. Therefore, mobile radios are used for the majority of this rural County's emergency communications, which causes overload of the current VHF analog channel and frequent on-channel and co-channel interference. This Investment will provide for the migration of the Henry County system to the statewide system (MARCS). Specifically, the funds will be used to upgrade the MARCS towers, upgrade dispatch consoles, and purchase new mobile/portable radios to enhance communications capabilities and capacity. Additionally, the Investment will allow Henry County to connect with NWORRP and strengthen interoperability throughout the region.

Stark County and Canton City 800 MHz Radio System Merge



Federal Amount:	\$ 2,704,000
Non-Federal Match Amount:	\$ 676,000
Total Project Cost:	\$ 3,380,000

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

Currently, Canton City and Stark County operate on two separate simulcast systems. Due to the inefficiencies of operating on two separate systems and the limitations of adding additional 800 MHz channels, the State is using this Investment to combine the systems into one simulcast cell, consisting of ten tower sites and twelve 800 MHz digital channels. This Investment will improve interoperability between all Stark County agencies, and users of the statewide system (MARCS), as well as public safety agencies in the surrounding counties. As a result, all public safety and law enforcement agencies will be able to communicate via a single radio band within and between all communities off the I-77 corridor.

Delaware County Combined 800 MHz Radio System



Federal Amount:	\$ 1,529,000
Non-Federal Match Amount:	\$ 382,250
Total Project Cost:	\$ 1,911,250

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

Currently, Delaware County operates on a county-wide digital 800 MHz radio system with the City of Dublin operating on a separate 800 MHz system and the City of Worthington operating on a three-channel analog system. This Investment will combine the four 800 MHz frequencies used by Dublin and the three 800 MHz frequencies used by Worthington into a single 700/800 MHz, three-site, seven-frequency, simulcast P25 standards-based digital voice system. This simulcast system will be linked with the Delaware County 800 MHz P25 standards-based system and will be able to interface with the statewide radio system (MARCS) and adjacent counties. This Investment will increase capacity, interoperability, and collaboration for multi-disciplinary agencies in cities and neighboring counties across the region, as well as allow connectivity to State and regional systems to improve public safety communications.

Lake County Interoperable Communications Project



Federal Amount:	\$ 1,920,000
Non-Federal Match Amount:	\$ 480,000
Total Project Cost:	\$ 2,400,000

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

Lake County currently operates on an 800 MHz analog/digital radio system for public safety agencies and relies on patching equipment to provide interoperability. The Investment will allow the County to replace its legacy analog system with a 700/800 MHz P25-compliant system. This system will expand public safety interoperability within the County and across the State, as it ties this local system into the statewide system (MARCS).

Cuyahoga Multi-Agency Radio Communications System



Federal Amount:	\$ 4,852,160
Non-Federal Match Amount:	\$ 1,213,040
Total Project Cost:	\$ 6,065,200

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

Public safety organizations within Cuyahoga County operate on 47 disparate radio systems, and users are unable to communicate with one another. This Investment combines the 47 disparate systems into one large, shared communications system and will enable the State to construct the Northeast Ohio Regional Public Safety Communications System, a P25 trunked simulcast system. The State will purchase a Zone Controller, Internet Protocol (IP) Simulcast Network Equipment, Simulcast Base Radio stations, RF subsystem-antenna, repeaters and end-user equipment to link disparate systems and achieve greater interoperability. Overall, this Investment will expand coverage across regions, facilitate interoperability between public safety agencies and enable Cuyahoga County to better manage emergencies and major incidents.

Meigs County Incident Command Enhancement



Federal Amount:	\$ 50,400
Non-Federal Match Amount:	\$ 12,600
Total Project Cost:	\$ 63,000

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

The topography of Meigs County creates coverage gaps among first responders. Meigs County operates on UHF and VHF radio systems that lack adequate coverage for public safety agencies. Testing of the statewide MARCS 700/800 MHz system in the area has found that additional handheld units would enable greater communication between first responders. This project proposes the procurement of additional hand-held 700/800 MHz units and a gateway device to patch users on the statewide system (MARCS) to local UHF and VHF users. This Investment will enable interoperability between State and local public safety agencies and enhance communication and coordination during emergencies and multi-jurisdictional incidents. Involvement will include the county's 12 fire departments, Emergency Medical Services, Law Enforcement, Emergency Management Agency, three County School Districts, Public Health, Highway Department, and 12 County Townships.

Carroll County Incident Command



Federal Amount:	\$ 778,433
Non-Federal Match Amount:	\$ 194,608
Total Project Cost:	\$ 973,041

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

Currently, Carroll County is the only county in Ohio that is operating on low band frequencies, which limits its ability to communicate with State and local public safety agencies during emergency events. This Investment will provide funding to link Carroll County with the statewide system (MARCS) and reprogram/update radios with talk groups to enable interoperability. This overhaul will be the most cost-effective means of deploying advanced technologies, promoting spectrum efficiency, and obtaining statewide interoperability.

PSIC Administration and Statewide Planning Costs

Management and Administration (M&A)

Federal Amount:	\$ 140,000
Non-Federal Match Amount:	\$ 35,000
Total Project Cost:	\$ 175,000

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