



# Public Safety Interoperable Communications Grant Program

NTIA has identified the following technology and all hazards mitigation priorities that States and Territories must consider when selecting projects for PSIC funding:

- Technology
  - Adopt advanced technological solutions
  - Improve spectrum efficiency
  - Use cost-effective measures
- All Hazards Mitigation
  - Improve communications in areas at high risk for natural disasters
  - Continue to improve interoperability efforts in urban and metropolitan areas at high risk for threats of terrorism





## Public Safety Interoperable Communications Grant Program

### PSIC Objective: Advanced Technology

#### Consideration Factors :

- Use of emerging technology to provide advanced interoperability solutions
- Use of commercial services, where appropriate, to support interoperable communications
- Use of IP-based technologies to interconnect with other systems
- Use of common advanced encryption techniques to secure vital transmissions while maintaining interoperability
- Incorporation of Software Defined Radio and Cognitive Radio technology to provide interoperability flexibility
- Use of standards-based technologies to provide voice and data services that meet wireless public safety service quality
- Consider solutions that have an open interface to enable the efficient transfer of voice, data, and video signals





## Public Safety Interoperable Communications Grant Program

### PSIC Objective : Spectrum Efficiency

#### Consideration Factors :

- Provide the best solution that consumes the least amount of spectrum necessary to meet user requirements
- Use of spectrum conserving techniques such as multiple access technologies
- Use of spectrum or channel sharing techniques
- Use of wired communications where possible to carry the appropriate types of communications traffic
- Use of compression, error correction, or other processing techniques that increase throughput





## Public Safety Interoperable Communications Grant Program

### PSIC Objective : Cost-effective Measures

#### Consideration Factors :

- Use of shared infrastructure elements to benefit multiple disciplines and multiple jurisdictions across a region, State, and/or Territory
- Use cost-per-user measures to demonstrate cost effectiveness of the project
- Apply a cost-benefit analysis to determine effectiveness and tangible benefits of chosen solution
- Consider economic impact of other interoperability solution options
- Consider long-term and recurring costs of proposed solution
- Consider degree to which proposed solution will interoperate with existing systems and the extent to which the investment represents a shared system or system-of-systems





## Public Safety Interoperable Communications Grant Program

- **Investment Justifications:**
  - **due 11/1/2007 to NTIA, due to SAA ???**
- **Up to 10 Investment Justifications will be accepted.**
- **20% Match required: cash or in-kind (goods and services)**

**The Investment Justification outline and review criteria can be found on pages 22 through 27 of the PSIC Grant Program Guidance and Application Kit. The Guidance and Kit can be found at [www.ntia.doc.gov/psic/applicant.html](http://www.ntia.doc.gov/psic/applicant.html).**





## Public Safety Interoperable Communications Grant Program

**Note 1: *Each Investment Justification must be a separate and unique project from any efforts currently underway.* For example, a State may use its funding to support an existing statewide communications system; however, this funding must be a unique component of this system that does not receive funding from another federal grant program.**

**Note 2: Communications infrastructure construction-based projects are allowable; examples: construction of communications towers, enhancement of equipment shelter or to retrofit a dispatch center.**

