

NIST PSCR: A strategic, scientific research engine.

America's status as the leader in **national security** requires an **objective, federal laboratory to conduct the research, development, testing, and evaluation of technologies slated for the nation's first responder broadband network.** A technical advisor, NIST PSCR drives America's leadership in **public safety communications science, research, and innovation**, and supports the Department's strategic objective to **deploy public safety broadband.**

How do we do it? >



NIST
National Institute of
Standards and Technology
U.S. Department of Commerce

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Pioneering technological innovation.

- Mission critical push-to-talk call model
- Next generation heads-up displays
- Lidar for in-building mapping

Pulling the future forward >

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Accelerating cutting-edge communications research.

- Audio quality and intelligibility
- Differential privacy
- Indoor localization accuracy
- Unmanned aircraft systems for public safety

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Setting the standard to which others look.

- 3GPP-standards-based LMR to LTE interfaces for public safety
- Mission Critical Voice Quality of Experience measurement system
- Identity, Credential, and Access Management for public safety organizations

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Fueling American prosperity.

- \$509.8 million in economic output
- \$261.8 million in earnings
- 4,280 new jobs

Pulling the future forward >

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Creating America's competitive advantage.

- Internationally-recognized innovation lab network enabling advancements in mission critical communications, NextG research, and spectrum sharing
- Resilient communications in extreme weather events such as Wildland Urban Interface (WUI) fires, hurricanes, flash floods, and tornadoes
- Equitable data representation of urban, suburban, and rural areas

Pulling the future forward >



PSCR

Pulling the future forward.

NIST PSCR has achieved these and more accomplishments since the Middle Class Tax Relief and Job Creation Act of 2012. But the road ahead remains lined with opportunities to keep the momentum going.

America depends on an **objective, technical advisor** dedicated to ensuring the reliability, functionality, and security of public safety broadband communications. With more than **60,000 public safety agencies** potentially taking advantage of the expanded coverage and capacity being delivered by FirstNet—a 25-year investment by the Department of Commerce—objective research and innovation is critical for strategic success. NIST PSCR serves as a **catalyst for driving current and future capabilities** made possible by the emergence of NextG technology—augmented reality, ground truth accuracy, and more.

For more than 20 years, PSCR has been a national asset that drives advancements in communication tools that help save lives, solve crimes, and keep our communities and emergency responders safe!