ABOUT PSCR

5 KEY RESEARCH AREAS STRATEGIC TOPIC AREAS

RESEARCH PARTNERS

INTRAMURAL IMPACTS

EXTRAMURAL IMPACTS

The Public Safety Communications
Research (PSCR) Division is the primary
federal laboratory conducting research,
development, testing, and evaluation
for public safety communications
technologies. It is housed within the
Communications Technology Laboratory
(CTL) at the National Institute of
Standards and Technology (NIST). It
addresses the R&D necessary for critical
features identified by public safety
entities beyond the current generation of
broadband technology.

MISSION

PSCR is driven towards advancing public safety communications technologies by accelerating the adoption and implementation of the most critical communications capabilities to ensure the public safety community can more effectively carry out their mission to protect lives and property during day-to-day operations, large scale events, and emergencies.



PROMISE

PSCR accelerates innovation by investing in research to transform the future of public safety communications, technology, and operations.





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LMR TO LTE

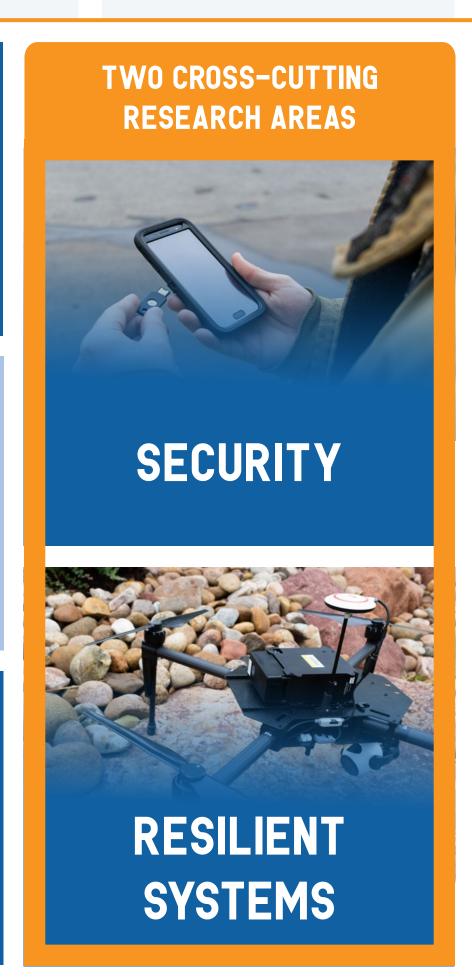




MISSION
CRITICAL
VOICE (MCV)

USER INTERFACE
USER EXPERIENCE









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As the leading research facility, PSCR supports the development of a nationwide network and impacts the following strategic priority areas:

AI TO INCREASE OPERATIONAL RESPONSE PUBLIC SAFETY
RESILIENT
COMMUNICATIONS



LIVE 3D INDOOR TRACKING

5G IOT SENSOR NETWORKS FOR
PUBLIC SAFETY

PUBLIC SAFETY
NEXT GENERATION
HEADS UP
DISPLAYS





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EXTRAMURAL IMPACTS







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INTRAMURAL **IMPACTS**

EXTRAMURAL IMPACTS

PRODUCTS

MEASUREMENT METHOD METRICS



MCV QUALITY OF **EXPERIENCE**



PUBLIC SAFETY PUSH-TO-TALK MODELING



VIRTUAL REALITY **ENVIRONMENT**





PUBLIC SAFETY ANALYTICS OPEN FRAMEWORK



TOOLS



OPEN SOURCE SOFTWARE



STANDARDS

483 CONTRIBUTIONS FOR PUBLIC SAFETY SERVICE & FEATURE REQUIREMENTS. ARCHITECTURE, & PROTOCOL SPECIFICATIONS

LMR TO LTE

3GPP-STANDARDS BASED LMR TO LTE INTERFACES FOR PUBLIC SAFETY

UNIQUE RESOURCES

PUBLIC SAFETY INNOVATION LAB



40-GIGABIT CORE LTE NETWORK



P25 PHASE 1 AND 2 LMR SYSTEM



2 RF CHAMBERS FOR TESTING DEVICES



INTEROPERABILITY LAB INTERCONNECTING LMR AND LTE SYSTEMS



VIRTUAL & AUGMENTED REALITY LAB



MOBILE RESEARCH VEHICLE FOR FIELD MEASUREMENTS

REACH

HOSTED EVENTS



LABORATORY VISITORS



STAFF

OF NIST STAFF WORKING ON PSCR'S MISSION





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EXTRAMURAL IMPACTS

EXTRAMURAL RESEARCH

GRANTS AND COOPERATIVE AGREEMENTS



167 TOTAL AWARD RECIPIENTS SUBCONTRACTORS & PUBLIC SAFETY PRACTITIONERS

PATENT GRANTED FOR RESILIENT SYSTEMS

OPEN SOURCE CODE INCLUDING VR ENVIRONMENTS &ANALYTICS FRAMEWORKS

PATENT APPLICATIONS

WHICH WORDS BEST DESCRIBE PSCR'S **ANNUAL STAKEHOLDER MEETING?**

CUTTING EDGE FUTURISTIC INNOVATION **EDUCATIONAL** RELEVANT COMMUNITY **INTERESTING** USEFUL COLLABORATION

OPEN INNOVATION



CHALLENGES **

COUNTRIES 130 TEAMS TO DATE TO TO THE TOTAL TO THE THE TOTAL THE

\$2.1M

SUBMISSIONS

RESEARCH PUBLICATIONS

EXTRAMURAL



PSIAP AWARD RECIPIENT



PROFESSIONAL JOURNAL/ **CONFERENCE PROCEEDINGS**



OTHER PUBLICATIONS



