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



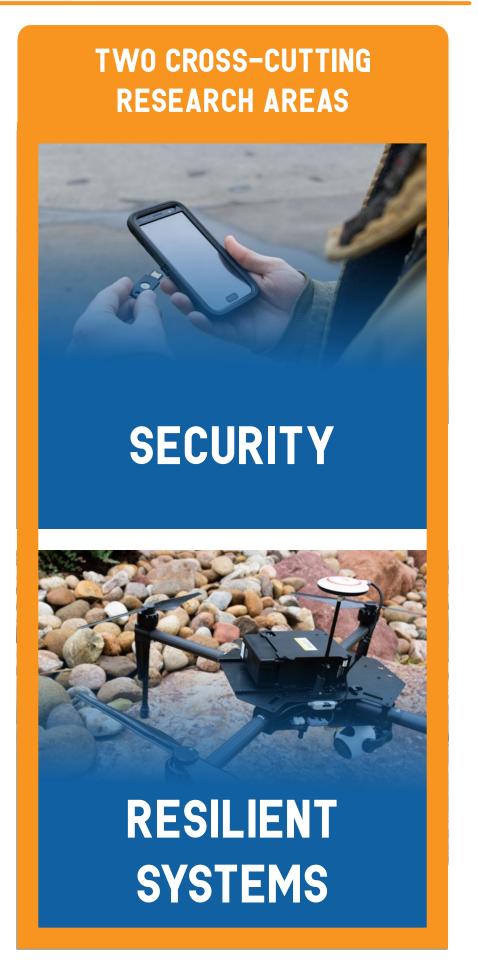


MISSION
CRITICAL
VOICE (MCV)

USER INTERFACE
USER EXPERIENCE

| STEEL COUNTY | COUNTY |









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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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PRODUCTS

MEASUREMENT METHOD METRICS



MCV QUALITY OF EXPERIENCE



PUBLIC SAFETY
PUSH-TO-TALK MODELING



VIRTUAL REALITY ENVIRONMENT



PUBLIC SAFETY ANALYTICS
OPEN FRAMEWORK



ACCURACY

RESEARCH TOOLS



OPEN SOURCE SOFTWARE

PUBLICATIONS



STANDARDS

LTE

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-GIGABITCORE LTE NETWORK



P25 PHASE 1 AND 2 LMR SYSTEM



2 RF CHAMBERSFOR 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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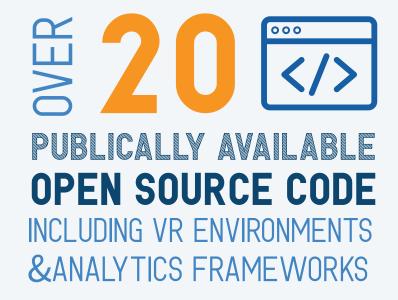
EXTRAMURAL RESEARCH

GRANTS AND COOPERATIVE AGREEMENTS



179 TOTAL SUBCONTRACTORS & PUBLIC SAFETY PRACTITIONERS

PATENT GRANTED FOR RESILIENT SYSTEMS



PATENT APPLICATIONS

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

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

OPEN INNOVATION



CHALLENGES **



SUBMISSIONS

RESEARCH PUBLICATIONS

EXTRAMURAL



PROFESSIONAL JOURNAL/ **CONFERENCE PROCEEDINGS**



OTHER PUBLICATIONS



