ABOUT PSCR 5 KEY RESEARCH AREAS RESEARCH FACILITIES

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.



ABOUT PSCR

5 KEY RESEARCH AREAS RESEARCH FACILITIES RESEARCH PARTNERS

INTRAMURAL IMPACTS

EXTRAMURAL IMPACTS

USER INTERFACE
USER EXPERIENCE







NEXT GENERATION
SYSTEMS INTEGRATION





UNCREWED AIRCRAFT SYSTEMS



ABOUT PSCR 5 KEY RESEARCH AREAS RESEARCH FACILITIES

RESEARCH PARTNERS

INTRAMURAL IMPACTS

EXTRAMURAL IMPACTS

RESEARCH FACILITIES

Public Safety Innovation Lab













40–Gigabit Core LTE Network P25 Phase 1 & 2 LMR System 2 RF Chambers for Testing Devices Interoperability Lab
Interconnecting LMR
and LTE Systems

Virtual and Augmented Reality Lab

Mobile Research Vehicle for Field Measurements

Public Safety Immersive Test Center







A Motion Capture System with 62 High Speed Optical Tracking Cameras Capable of Centimeter Accuracy



A Variety of Augmented & Virtual Reality Headsets



A Mobile Staircase & Other Equipment for Z-Axis Motion



Physical Furniture and Gear to Add a Tactile Component to Simulations



ABOUT PSCR

5 KEY **RESEARCH AREAS** **RESEARCH FACILITIES** **RESEARCH PARTNERS** **INTRAMURAL IMPACTS**

EXTRAMURAL IMPACTS













































































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FACTUALVR



























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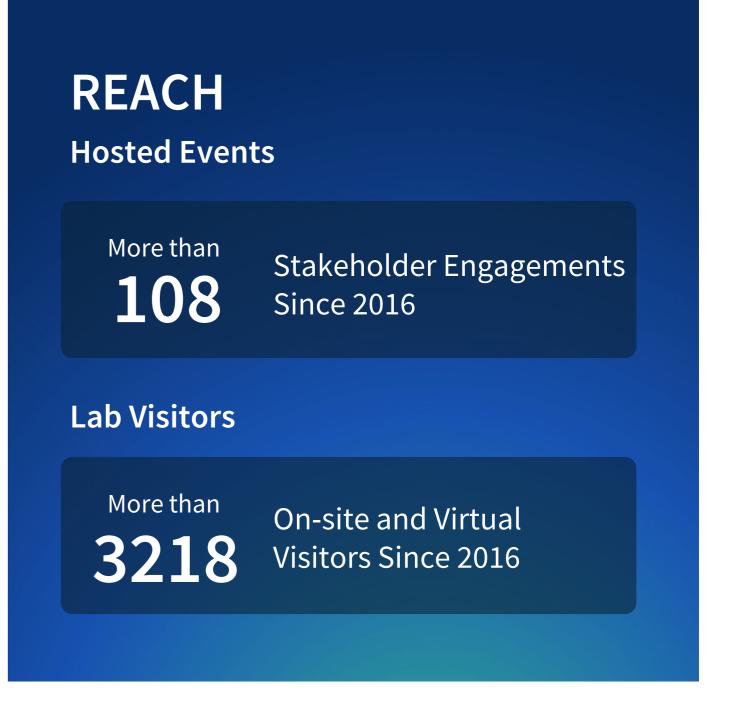
ABOUT PSCR 5 KEY RESEARCH AREAS RESEARCH FACILITIES

RESEARCH PARTNERS

INTRAMURAL IMPACTS

EXTRAMURAL IMPACTS







ABOUT PSCR

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RESEARCH PARTNERS

INTRAMURAL IMPACTS

EXTRAMURAL IMPACTS

EXTRAMURAL RESEARCH

Grants and Cooperative agreements











\$108M

In Grants Awarded to Date 262

Total Award Recipients, Subcontractors, and Public Safety Practitioners 208
External Software Resources

10
Patents

Granted

16

Patent Applications Submitted

Open Innovation





22 Challenges Launched



276
Winning
Teams



\$7.4M In Prizes Awarded To Date



759
Prizes
Awarded



1,069
Total
Submissions

Commercialization Highlights

- public safety organizations involved in commercialization efforts
- funding opportunities with public safety demonstrations and pilot projects
- 10 agencies that provided SBIR follow-on funding to commercialization program participants

Research Publications

345

External Journal and Conference
Publications

