

NIST PSCR RESEARCH INVESTMENTS BOLSTER MICHIGAN'S ECONOMY

The National Institute of Standards and Technology (NIST) Public Safety Communications Research (PSCR) Division is the primary federal laboratory focused on conducting research, development, testing, and evaluation for public safety communications technologies. Their mission is to accelerate communications innovation in support of public safety communities and the citizens they serve.

NIST PSCR implements numerous research mechanisms that aim to advance near- and long-term R&D activities to support the development and deployment of the Nationwide Public Safety Broadband Network: grants, Small Business Innovation Research (SBIR) contracts, prize challenge competitions, and internal research. These research mechanisms are housed within six research portfolios and cross-cutting initiatives to maximize their impact:

- User Interface/User Experience
- Location-Based Services
- Mission Critical Voice
- Public Safety Analytics
- Security
- Resilient Systems

While the ultimate impact of these research mechanisms is the increased safety of first responders and their communities through improved communications technologies, PSCR was interested in better understanding how their R&D investments to date result in economic impacts that ripple outward to state economies. An independent analysis was conducted to demonstrate how PSCR's research investments translate into broader impacts to the United States, including jobs, earnings, value added, and total economic output. As of 2021, PSCR investment has resulted in economic output in 30 of the 50 states. Results of the analysis are presented here.

For more information, see [NIST PSCR's Economic Impact Study](#).

MICHIGAN BY THE NUMBERS



NIST INVESTMENT
\$4.6 Million



OUTPUT
\$9.2 Million



VALUE-ADDED
\$14.3 Million



EARNINGS
\$8.8 Million



JOBS
148

1 Prize Challenge Participant

Awards Totaling
\$0.01 Million

6 Grant Awards

Totaling \$4.6 Million

- Voxel51 LLC
- Regents of the University of Michigan (2 awards)
- Michigan Technological University
- Culture Catalyst LLC

Output the total value of economic activity circulating through the U.S. economy generated by PSCR's R&D investments

Value-Added indicates how much the combined U.S. state economies grew over a period of time due to PSCR's R&D investments

Earnings the change in household earnings in the U.S. economy generated by PSCR's R&D investments

Jobs the change in the number of full- and part-time jobs generated by each one million dollar change in U.S. economic activity due to PSCR's R&D investments

**All dollar amounts presented in 2020 and reflect data as of April 2021.*

***All values are rounded; thus, the sum of the components may not sum exactly to the NIST Investment amount.*