

Looking Ahead

Opportunities for NIST in America's Innovation Ecosystem

Walter G. Copan

Under Secretary of Commerce for Standards and Technology
and NIST Director

NIST Priorities for Impact



Advanced Communications
Technology and Standards
for 5G and Beyond



Standards Leadership for
the Nation



Advanced Manufacturing
and Supply Chain



Cybersecurity and
Privacy



Strengthening America's
Competitive Position in
the World

Advanced Communications Technology and Standards for 5G and Beyond

- Leadership and technical expertise in advanced communications-related standards bodies
- National Advanced Spectrum and Communications Test Network
- Meeting the future communications needs of our first responders
- Shaping the future of wireless R&D – roadmaps, 5G testbed
- NCCoE partnering with industry to address 5G cybersecurity challenges
- Strengthening supply chain security

NIST is the U.S. government's leader in fundamental and applied research, standards, and government-academia-industry coordination for advanced communications technologies



200+

NIST staff and associates in the Communications Technology Laboratory



30+

NIST experts leading in global standards development organizations



180+

participants from 80+ industry, academia and government organizations participating in the 5G MM Wave Channel Model Alliance



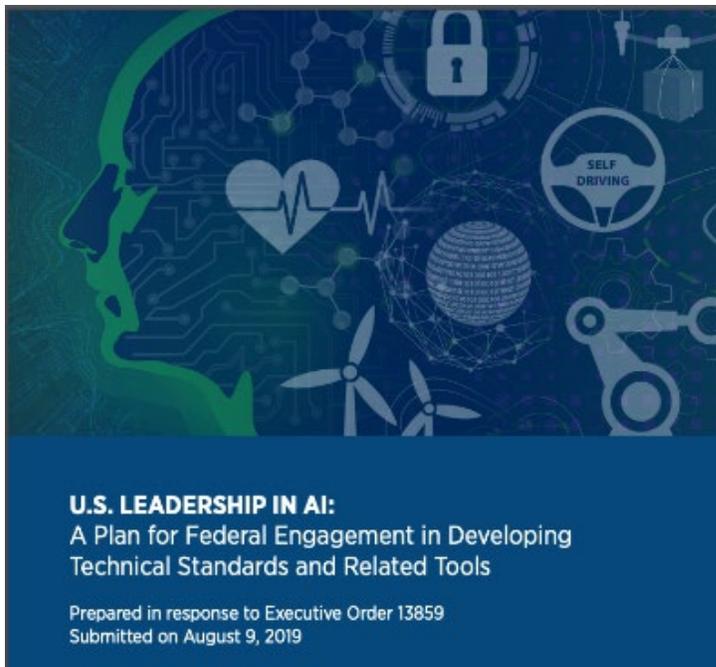
320+

technical publications in advanced radio frequency electromagnetics and advanced wireless since 2015

Standards Leadership for the Nation

- Standards are critical in the face of increasing global competition
- NIST research and work in standards development
- NIST has unique responsibilities to coordinate federal activities

440 NIST technical staff lead and participate in more than 100 unique standards development organizations, contributing their expertise in over 1,500 standards activities

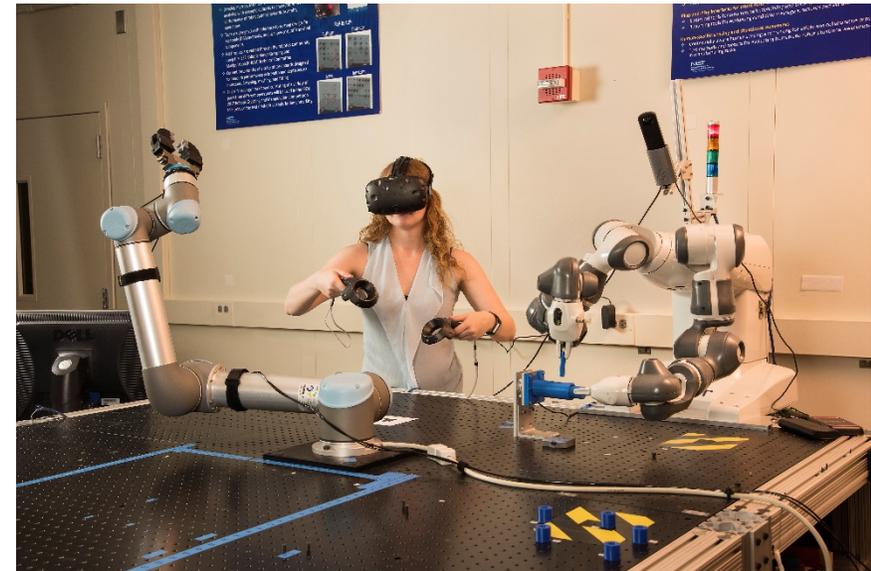


Advanced Manufacturing and Supply Chain

The *2018 Strategy for American Leadership in Advanced Manufacturing* outlines three goals for the nation:

- develop new technologies,
- build the workforce, and
- expand domestic supply chains

NIST is uniquely positioned to deliver on these goals



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Cybersecurity and Privacy



Cybersecurity and privacy at the forefront of concern for the U.S.

NIST has critical roles in setting cybersecurity policy for the government

NIST leads the broader community on cybersecurity and privacy issues



Strengthening America's Competitive Position in the World

NIST's programs support the U.S. innovation base: research and standards in high value emerging technology areas

World-leading programs help ensure the necessary talent, research infrastructure, and partnerships in U.S.

Research facilities and access to talent top areas of concern

