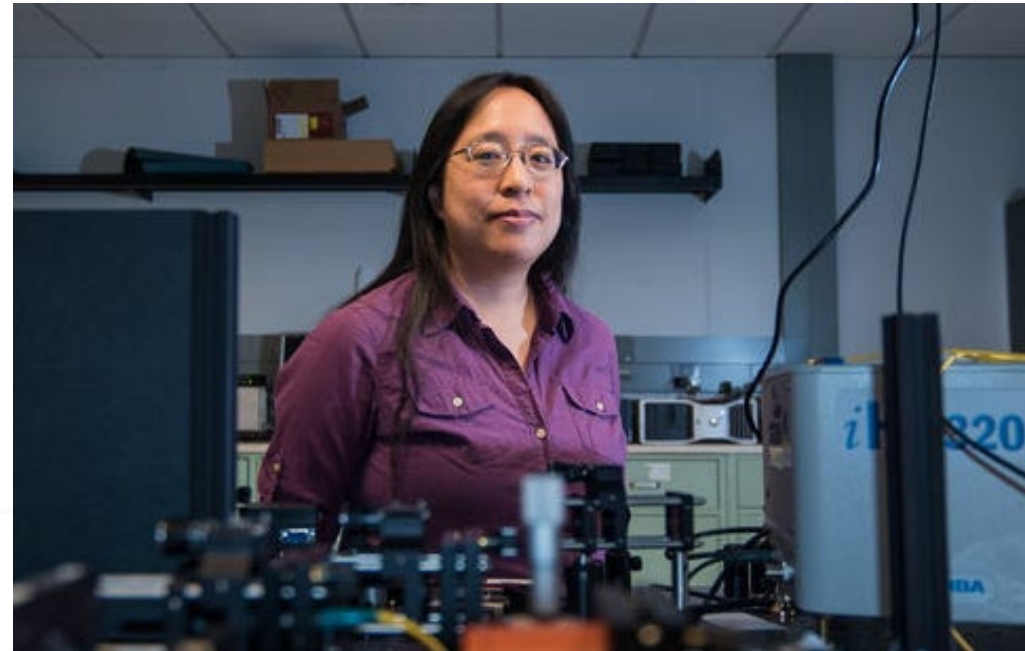# NIST Cybersecurity and Privacy Updates
Chuck Romine
July 13, 2022

Cultivating Trust in IT and Metrology

Dr. Laurie Locascio

Confirmed by the U.S. Senate on April 7, 2022 as the 17th NIST Director and Under Secretary of Commerce for Standards and Technology

# NIST Leadership

Dr. Jason Boehm

NIST Chief of Staff

NIST Announced First Four Quantum-Resistant Cryptographic Algorithms

"Our post-quantum cryptography program has leveraged the top minds in cryptography — worldwide — to produce this first group of quantum-resistant algorithms that will lead to a standard and significantly increase the security of our digital information."

Under Secretary of Commerce for Standards and Technology and NIST Director Laurie E. Locascio

Revision to Cybersecurity Framework
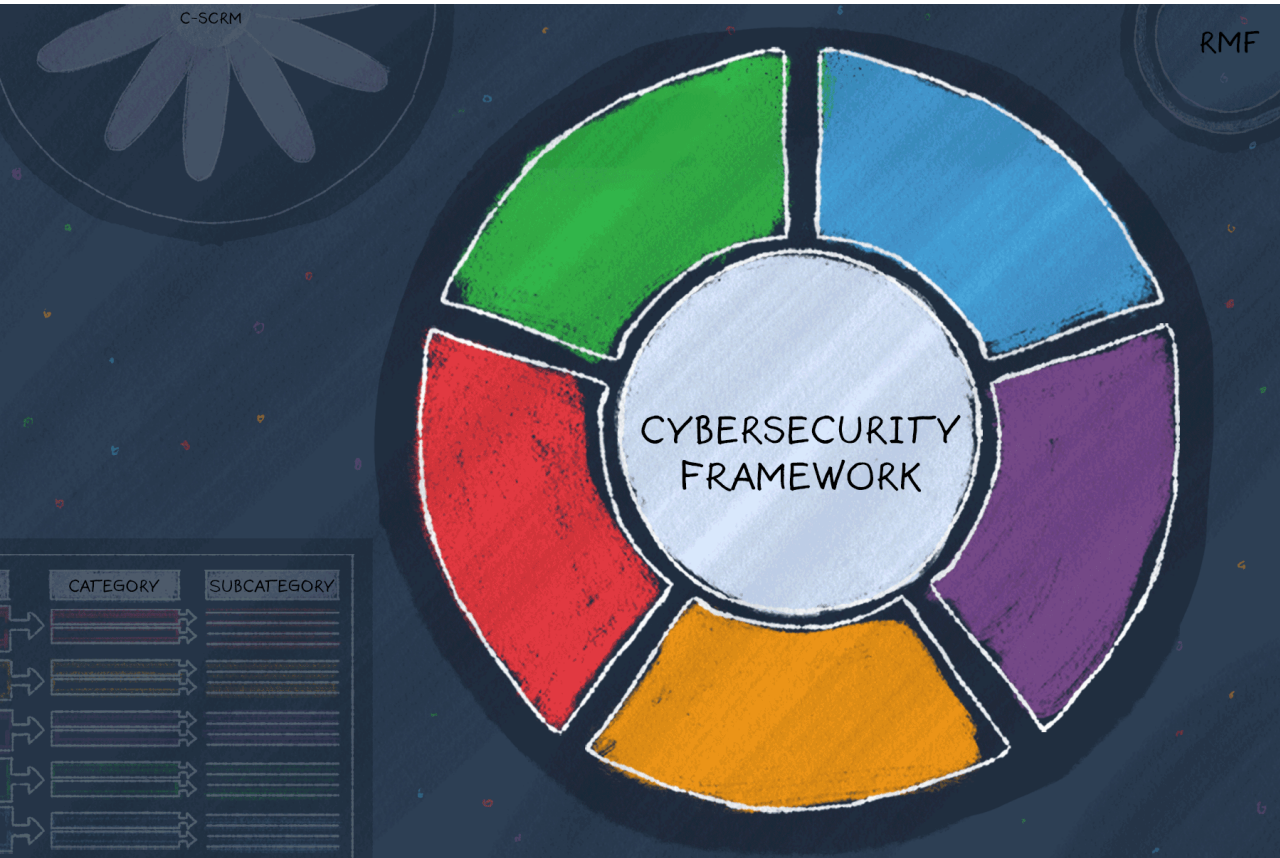
"[NIST's] CSF is one of the leading frameworks for private sector cybersecurity maintenance. We want private and public sector organizations to help make it even more useful and widely used, including by small companies."

Commerce Deputy Secretary Don Graves

EXECUTIVE ORDER 14028
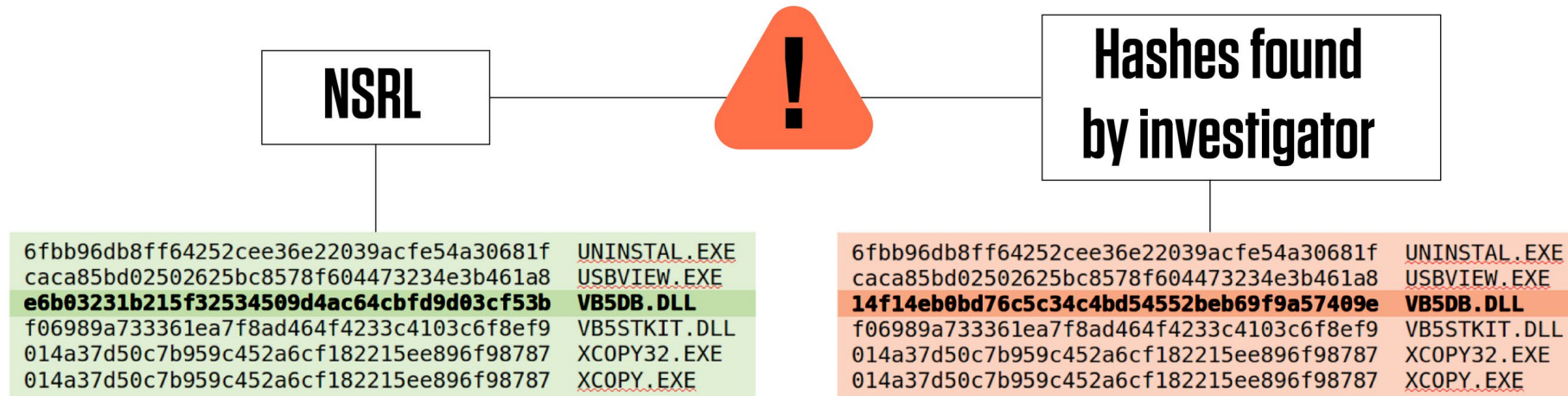# IMPROVING THE NATION'S CYBERSECURITY

Shutterstock
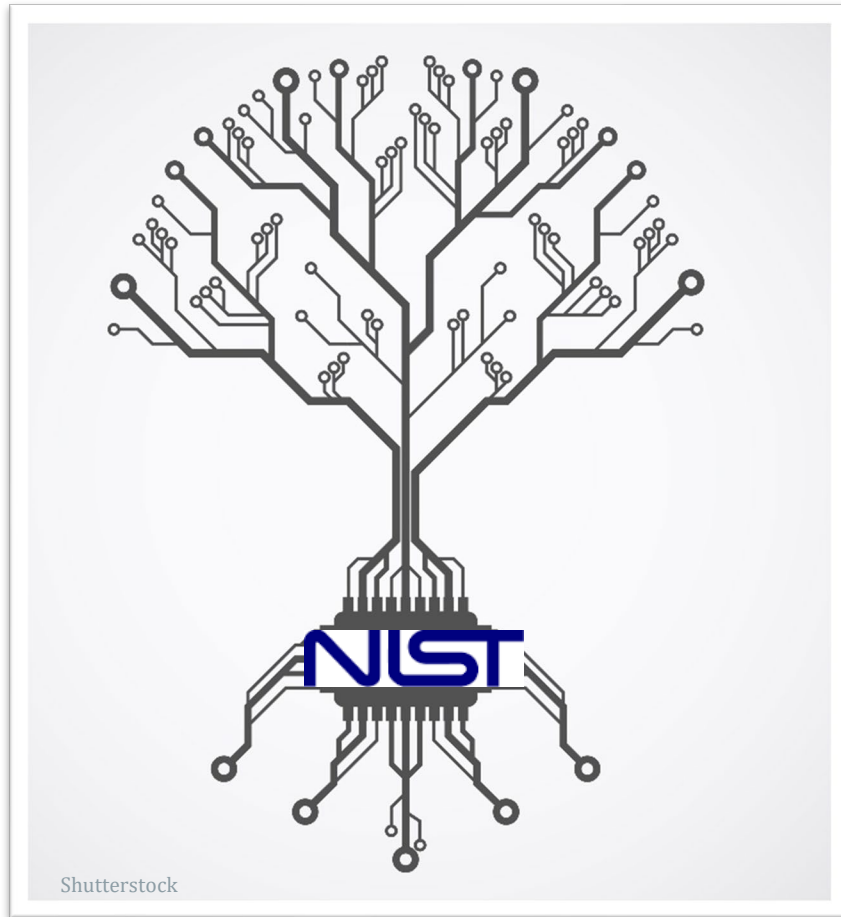
1. Summary report on Progress Implementing Section 4 of EO 14028 (July 11, 2022)

2. Summary report on the labeling initiatives under the EO (May 24, 2022)

3. New EO Guidance for Cybersecurity Supply Chain Risk Management (May 5, 2022)

4. Draft Profile of the IoT Core Baseline for Consumer IoT Products (June 17, 2022)

Update to Software Reference Library

NIST

NSRL		!	Hashes found by investigator	

NSRL		Hashes found by investigator	
6fbb96db8ff64252cee36e22039acfe54a30681f	UNINSTAL.EXE	6fbb96db8ff64252cee36e22039acfe54a30681f	UNINSTAL.EXE
caca85bd02502625bc8578f604473234e3b461a8	USBVIEW.EXE	caca85bd02502625bc8578f604473234e3b461a8	USBVIEW.EXE
e6b03231b215f32534509d4ac64cbfd9d03cf53b	**VB5DB.DLL**	**14f14eb0bd76c5c34c4bd54552beb69f9a57409e**	**VB5DB.DLL**
f06989a733361ea7f8ad464f4233c4103c6f8ef9	VB5STKIT.DLL	f06989a733361ea7f8ad464f4233c4103c6f8ef9	VB5STKIT.DLL
014a37d50c7b959c452a6cf182215ee896f98787	XCOPY32.EXE	014a37d50c7b959c452a6cf182215ee896f98787	XCOPY32.EXE
014a37d50c7b959c452a6cf182215ee896f98787	XCOPY.EXE	014a37d50c7b959c452a6cf182215ee896f98787	XCOPY.EXE

Credit: N. Hanacek/NIST

Software files can be identified by a sort of electronic fingerprint called a hash. The NSRL dataset update makes it easy to separate hashes indicating run-of-the-mill files from those that might contain incriminating evidence, making investigative work easier. Expanded, more searchable database will help law enforcement find incriminating images in electronic media.

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Artificial Intelligence update

Credit: Hanacek, NIST

Credit: NIST
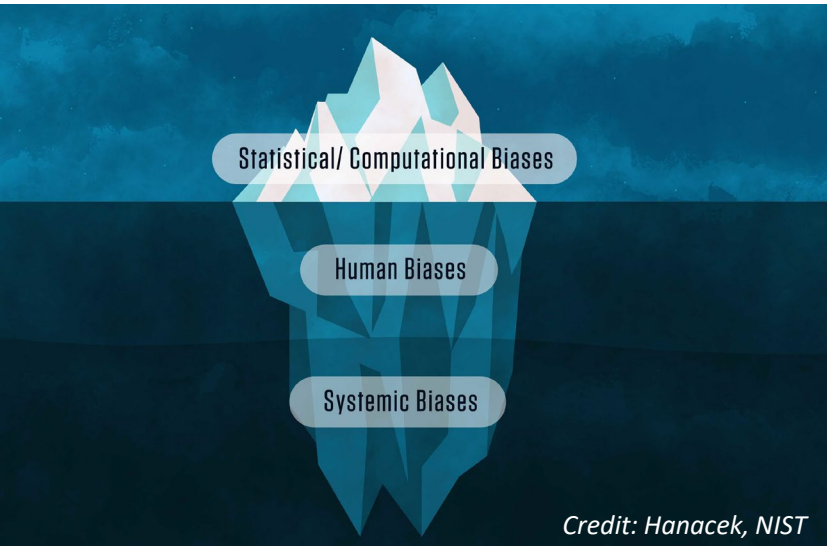
AI Risk Management Framework draft and workshop #2, Publication of Identifying and Managing Bias in AI

AI and the Economy: Charting a Path for Responsible and Inclusive AI Symposium on April 27, 2022

National AI Advisory Committee (NAIAC) inaugural meeting on May 4, 2022

Congressional Hearings or Briefing

SECURING DOTGOV

House Committee on Homeland Security, Subcommittee on Cybersecurity, Infrastructure Protection, & Innovation
May 17, 2022

PRIVACY IN THE AGE OF BIOMETRICS

House Committee on Science, Space and Technology, Subcommittee on Investigation and Oversight
June 29, 2022

CBP'S USE OF BIOMETRICS AND FR

House Committee on Homeland Security, Subcommittee on Border Security, Facilitation, and Operation
July 13, 2022

FY 2022 and 2023 Budget Initiatives

NIST

Cybersecurity	**$5.25M**
Artificial Intelligence	$0.58M
Quantum Information Science	$2.2 M
Standards for Critical & Emerging Tech	$0.6 M
NIST Diversity, Equity, and Inclusion	$0.02 M

Cybersecurity	**$18M**
Artificial Intelligence	$15 M
Quantum Information Science	$15 M
Standards for Critical & Emerging Tech	$8 M
NIST Workforce Diversity and Equity	$5.78 M

2022

Celebrating 75 years of applied math and statistics at NIST

2022

Celebrating 50 years of Cybersecurity research at NIST

2023

Celebrating 60 years of Biometrics research at NIST