LISTENING SESSION

ON THE U.S. GOVERNMENT NATIONAL STANDARDS STRATEGY FOR CRITICAL AND EMERGING TECHNOLOGY

The session will begin at 1:00 pm ET.

Please note that the listening session will be recorded for notetaking purposes only.

AGENDA & SPEAKER BIOS

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IN-PERSON ATTENDEES:

- When asking a question or speaking from the floor, please use the table microphone and introduce yourself (name and organization).

VIRTUAL ATTENDEES:

- Audio will be muted.
- Pleased use the chat function for technical questions only.
- Join the discussion at Slido.com with the code #2438879.

AGENDA &
SPEAKER BIOS

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WELCOME REMARKS

STEVE SAFIER

Program Director and Lecturer, Human Capital Management – Columbia University School of Professional Studies

WON PALISOUL

Adjunct Associate Faculty for Human Capital Management – Columbia University School of Professional Studies

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FIRESIDE CHAT: STANDARDS AND THE INNOVATION ECOSYSTEM

DR. LAURIE LOCASCIO

Director of NIST and Under Secretary of Commerce for Standards and Technology

DR. ALEXIS WICHOWSKI

Professor of Professional Practice and Program Director, Technology Management

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REMARKS FROM ITA

HEATHER EVANS

Deputy Assistant Secretary for Manufacturing – International Trade Administration

OVERVIEW OF THE U.S. GOVERNMENT NATIONAL STANDARDS STRATEGY FOR CRITICAL AND EMERGING TECHNOLOGY

DR. JAYNE MORROW

Senior Advisor to the Director for Standards Policy –
NIST National Institute of Standards and Technology

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USG NATIONAL STANDARDS STRATEGY FOR CRITICAL AND EMERGING TECHNOLOGY (USG NSSCET)

Jayne B. Morrow, PhD
Senior Advisor on Standards Policy
Directors Office
National Institute of Standards and Technology

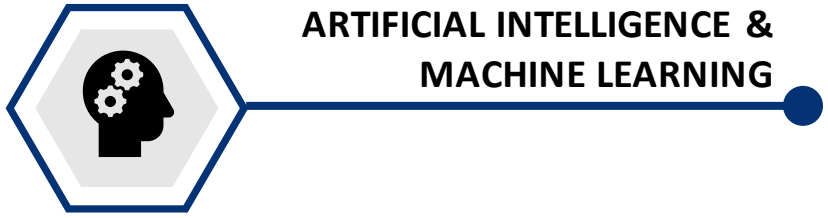
LEADERSHIP IN STANDARDS

USG National Standards Strategy for Critical and Emerging Technology supports the development of federal standards policy to ensure continued U.S. global economy competitiveness and technology leadership

DYNAMIC GLOBAL LANDSCAPE OF STANDARDS DEVELOPMENT

- The future of U.S. innovation, competition, and national security is at risk
- The U.S. must uphold the integrity of international standards in coordination with likeminded partners and allies
- A clear vision is needed to sustain engagement in global standards-setting

CRITICAL AND EMERGING TECHNOLOGIES IDENTIFIED IN THE USG NSSCET



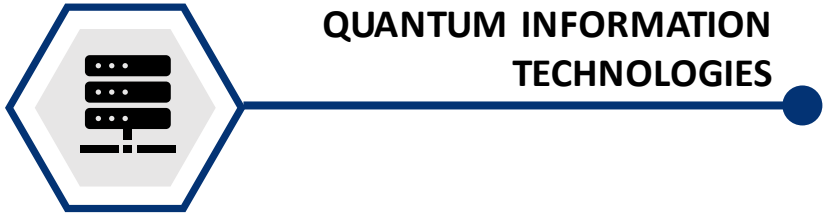
ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

COMMUNICATION & NETWORKING TECHNOLOGIES

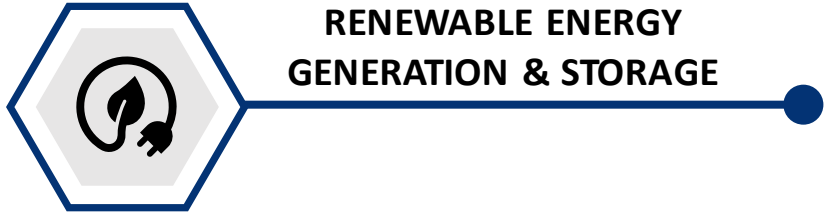
BIOTECHNOLOGIES

SEMICONDUCTORS & MICROELECTRONICS

DIGITAL ID INFRASTRUCTURE & DISTRIBUTED LEDGER TECHNOLOGIES



QUANTUM INFORMATION TECHNOLOGIES



RENEWABLE ENERGY GENERATION & STORAGE

SPECIFIC CET APPLICATIONS IDENTIFIED IN THE USG NSSCET

Automated & Connected Infrastructure

Smart cities, Internet of Things, and other novel applications

Biobanking

Involves the collection, storage, and use of biological samples from individuals

Automated & Connected Transportation

Autonomous vehicles, unmanned aircraft systems, automated subway systems, smart cities, internet-of-things, and other possible applications

Electric Vehicles (EVs)

Standards to integrate EVs with the electrical grid

Critical Mineral Supply Chains

Cross-cutting issues that are critical to enabling the development and deployment of emerging technologies and data security

Cybersecurity & Privacy

Cross-cutting issues that are critical to enabling the development and deployment of emerging technologies and data security

USG NSSCET OBJECTIVES

- Objective 1: Investment
- Objective 2: Participation
- Objective 3: Workforce
- Objective 4: Integrity & Inclusivity

USG NSSCET LINES OF EFFORT

GREATER **INVESTMENT** IN PRE-STANDARDIZATION RESEARCH

- Increase R&D funding for CETs
- Support development of standards that address risk, security, and resilience

1

PARTICIPATION IN STANDARDS DEVELOPMENT

- Remove and prevent barriers to private sector participation
- Improve communication between public and private sector
- Enhance USG and like-minded nations' representation and influence in international standards governance and leadership

2

WORKFORCE DEVELOPMENT

- Educate and empower the new standards workforce

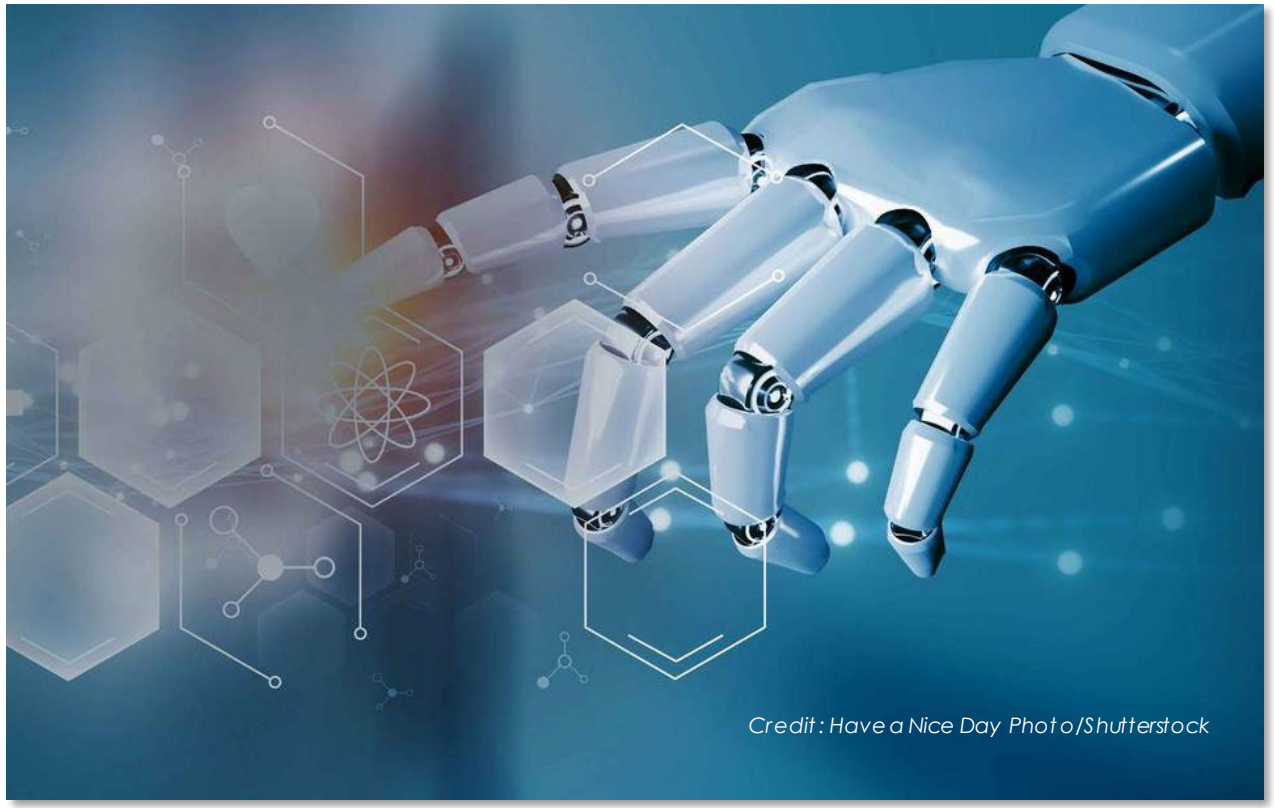
3

INTEGRITY AND INCLUSIVITY IN STANDARDS DEVELOPMENT

- Deepen standards cooperation with allies and partners to support a robust standards governance process
- Facilitate broad representation in standards development

4

USG NSSCET IMPLEMENTATION: LISTENING



The U.S. Government National Standards Strategy for Critical and Emerging Technology (USG NSSCET) was released in May 2023

Request for Information (RFI)

- September 7 RFI seeking public input on how to best implement the Strategy
- Seeking input on investment, participation, workforce, and integrity and inclusivity
- Responses are due **22 DEC 2023**

Listening Sessions and Stakeholder Engagements

- National Listening Sessions and stakeholder engagement workshops (SEP – DEC 2023)
- NIST Visiting Committee on Advanced Technology Subcommittee on International Standards Development

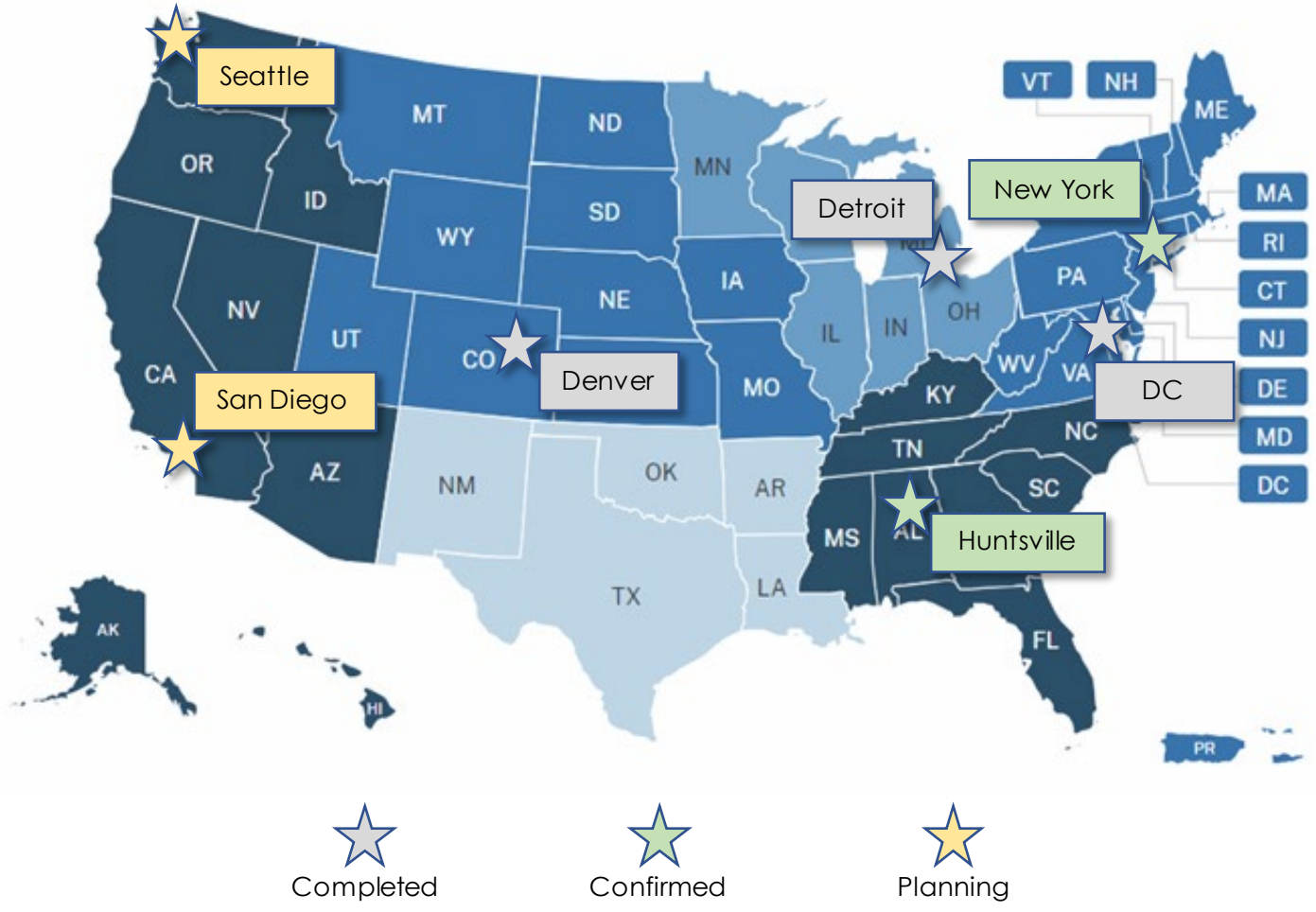
USG NSSCET IMPLEMENTATION: RFI

NOTE: THE RFI WILL CLOSE ON 22 DEC 2023

- **<u>Broad questions</u>**: Benefits, risks, and challenges faced by small- and medium-sized enterprises
- **<u>Investment</u>:** Policies, R&D and pre-standardization budget to support standards development and encourage USG adoption of standards and demonstrated CETs.
- **<u>Participation</u>:** Support coordination, communication, collaboration with private-sector, civil society and state and local government in participation in CET standards development
- **<u>Workforce</u>:** Tools, resources, curricula, activities to encourage engagement and awards for increased recognition for participation in CET standards development
- **<u>Integrity and Inclusivity</u>:** Support coordination, communication, and collaboration with partners and allies to reinforce TBT principles

LISTENING SESSIONS: LOCATIONS

- Listening sessions planned around the country
- Align with the RFI to increase coordination and engagement in standards development
- Updated list on standards.gov



LISTENING SESSIONS: KEY FINDINGS

Workforce

- Framing standards as a critical component to the innovation ecosystem
- Recognition and incentives for sustained engagement (5-10 years)
- Training – taking research to standards vs bootcamps and skill development

R&D Coordination

- Technology convergence is a unique challenge
- Interagency coordination of CET programs and credit for standards essential to sustained standards investment

International Coordination

- Better coordination and support through the WTO TBT
- Need stronger engagement with industry to define policy engagement
- Establish strong coordination of standards with conformity assessment processes

WWW.STANDARDS.GOV

WE ARE HERE TO LISTEN …

The Standards Information Center provides a gateway to navigating the dynamic U.S. and international standards landscape

The USA Enquiry Point for the World Trade Organization (WTO)

www.standards.gov

PANEL DISCUSSION

MODERATOR: Dr. Roy Swift, Executive Director – Workcred

PANELISTS:

- Muhammad Ali, Senior Standards Strategy and Policy Lead – HP Inc.
- Dr. Diana Gelhaus, Senior Advisor for the Chief Digital and Artificial Intelligence Office (CDAO) – Department of Defense (DoD)
- Tanya Pope, Assistant Vice President of University Supplier Diversity – Columbia University

MODERATED GROUP DISCUSSION

- How can we work together, learning from each other's experience, to build standards awareness and foster a standards-literate workforce of the future?

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MODERATED GROUP DISCUSSION

- How can we expand efforts to educate and empower a new standards workforce and be more inclusive to additional stakeholders, such as start-ups, small- and medium-sized companies, academia, and members of civil society?

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MODERATED GROUP DISCUSSION

- What standards development information, guidance, training, educational tools, and assistance are needed to reach a more diverse audience?

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USG NSSCET IMPLEMENTATION RFI

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CLOSING REMARKS AND ADJOURNMENT

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