



BakerHostetler

# BUSINESS ROUNDTABLE

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

The session will begin at 9:00 a.m.

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



# WELCOME REMARKS

MARGARET BUTLER

Partner, BakerHostetler



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# GOALS OF THE USG NSSCET

DR. LAURIE LOCASCIO

NIST Director and Under Secretary of Commerce for  
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

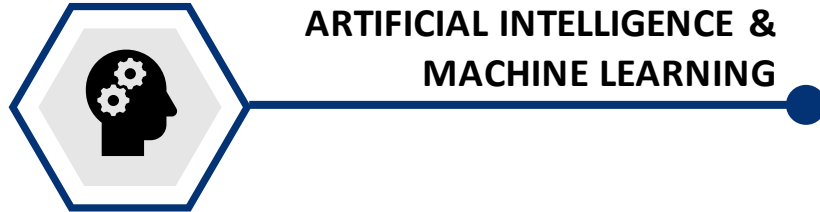


The U.S. must uphold the integrity of international standards in coordination with likeminded partners and allies



A clear vision is needed to sustain engagement in global standards-setting

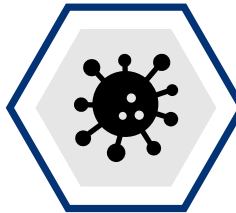
# CRITICAL AND EMERGING TECHNOLOGIES IDENTIFIED IN THE USG NSSCET



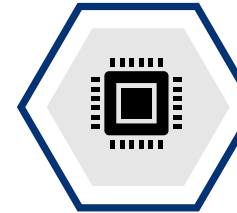
**ARTIFICIAL INTELLIGENCE &  
MACHINE LEARNING**



**COMMUNICATION & NETWORKING  
TECHNOLOGIES**



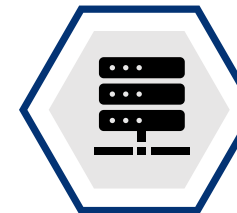
**BIOTECHNOLOGIES**



**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

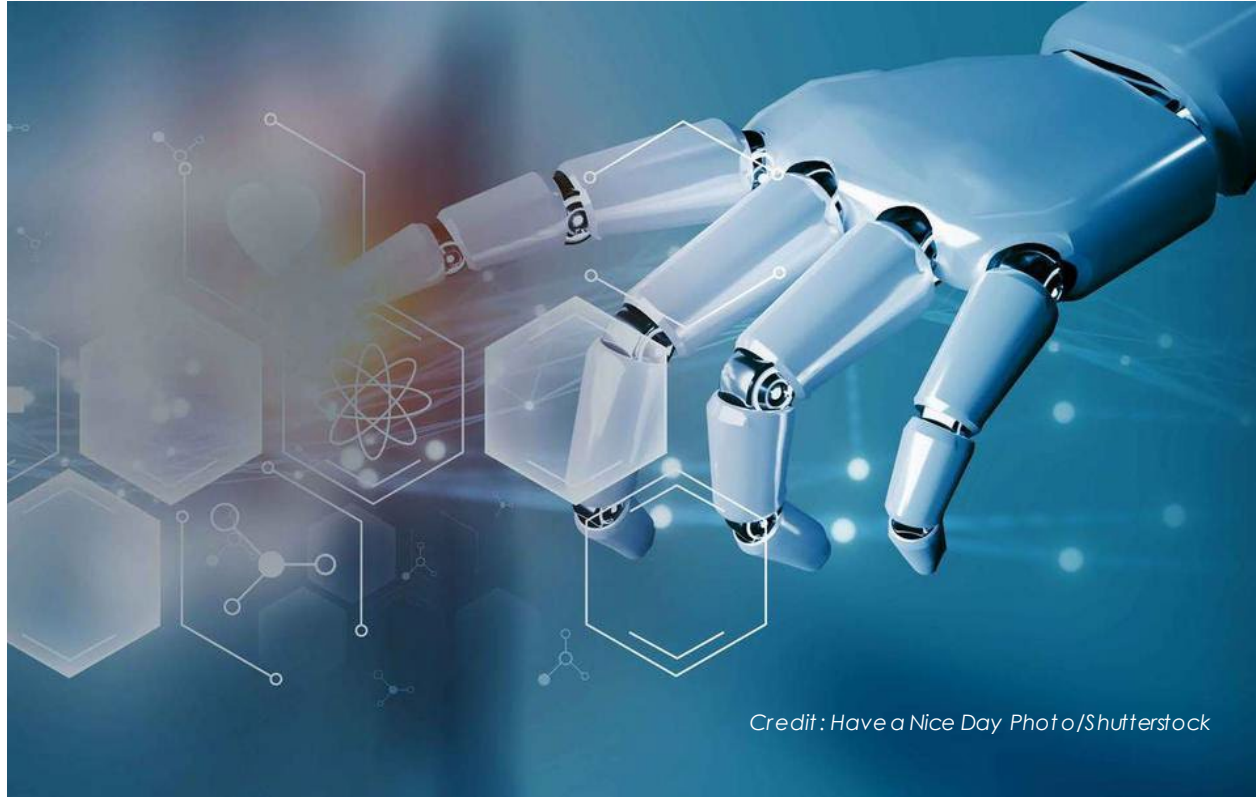


- Deepen standards cooperation with allies and partners to support a robust standards governance process
- Facilitate broad representation in standards development

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**



**Broad questions:** Benefits, risks, and challenges faced by small- and medium-sized enterprises

**Investment:** Policies, R&D and pre-standardization budget to support standards development and encourage USG adoption of standards and demonstrated CETs.

**Participation:** Support coordination, communication, collaboration with private-sector, civil society and state and local government in participation in CET standards development

**Workforce:** Tools, resources, curricula, activities to encourage engagement and awards for increased recognition for participation in CET standards development

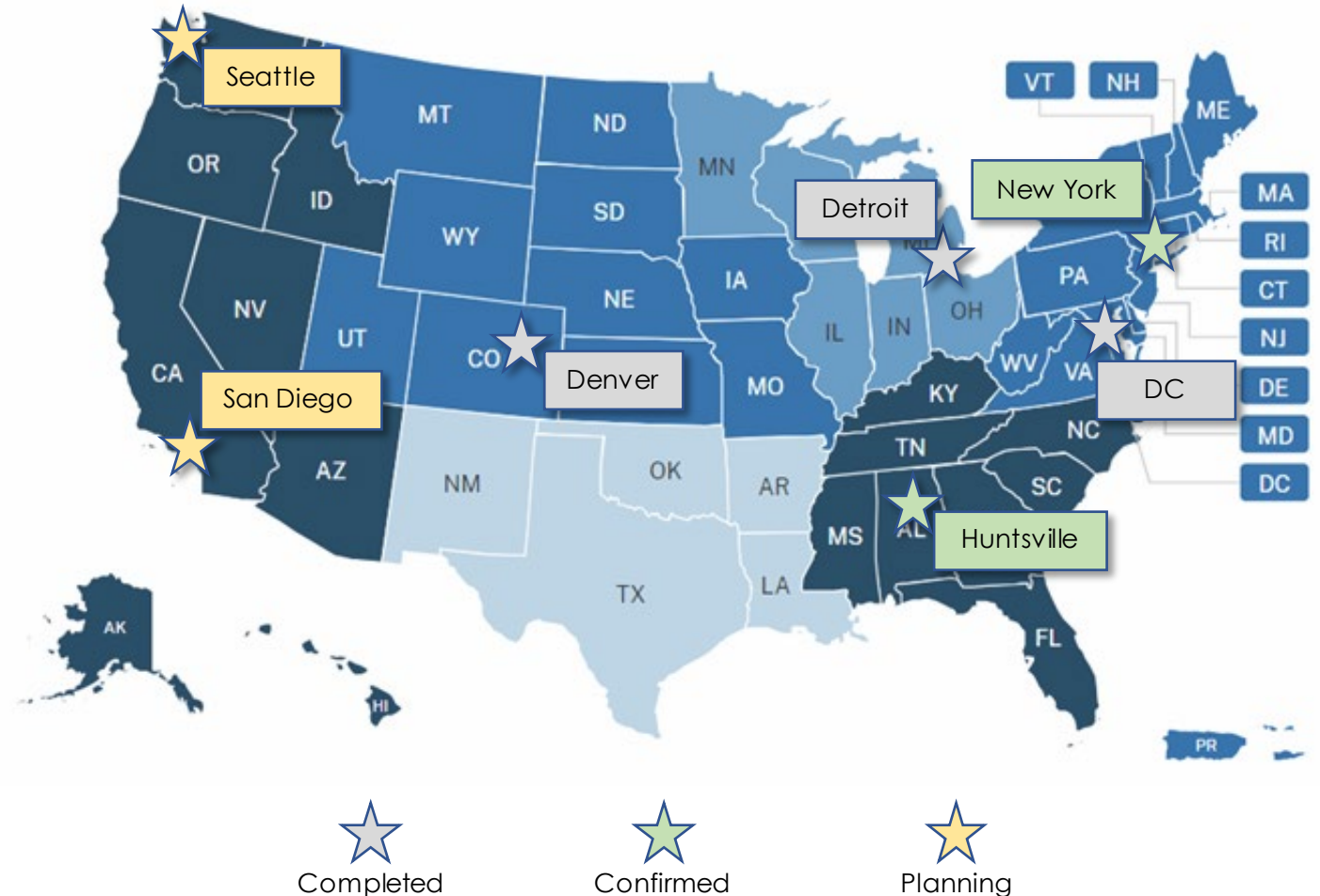
**Integrity and Inclusivity:** Support coordination, communication, and collaboration with partners and allies to reinforce TBT principles



# 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](https://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





## 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](http://www.standards.gov)



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