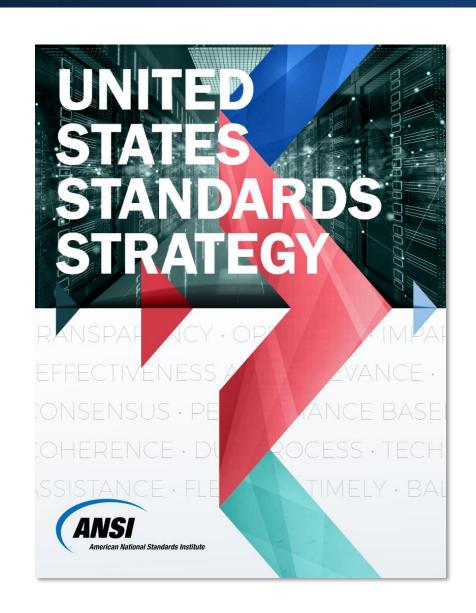
#### U.S. GOVERNMENT NATIONAL STANDARDS STRATEGY FOR CRITICAL AND EMERGING TECHNOLOGY (USG NSSCET)

Dr. Jayne Morrow Senior Advisor, Standards Policy Office of the Director Dr. Stephanie Hooker
Incoming Director (pending)
Standards Coordination Office



#### AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)





The USSS sets a strategic vision to support **U.S. competitiveness, innovation, health and safety, and global trade,** guiding how the U.S. develops and uses standards, and participates in the international standards development process.

The U.S. standards system is based on a publicprivate partnership and embraces the participation of all affected stakeholders, making it dynamic, flexible, and responsive to market needs.

#### **USG NSSCET OVERVIEW**



#### **Greater Investment in Pre-Standardization Research**

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

#### **Participation in Standards Development**

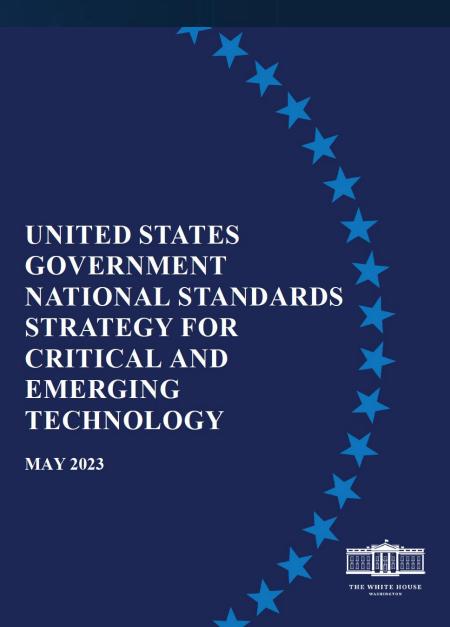
- Remove and prevent barriers to private sector participation
- Improve communication between public and private sector
- Enhance USG representation and influence in international standards governance and leadership

#### **Workforce Development**

#### **Ensuring Integrity in Standards Development**

- Deepen standards cooperation with partners and allies
- Facilitate broad representation in standards development

**View the Strategy:** <u>www.nist.gov/standardsgov/usg-nss</u>



#### VCAT REPORT ON IMPLEMENTING THE USG NSSCET



Report on NIST Leadership for the Implementation of the U.S. Standards Strategy for Critical and Emerging Technology

Visiting Committee on Advanced
Technology
of the
National Institute of Standards and
Technology

U.S. Department of Commerce

February 2024



This document has been adopted by the NIST Visiting Committee on Advanced Technology (VCAT) and was produced by the NIST VCAT Subcommittee on U.S. International Standards Development Activity in accordance with the Subcommittee's <a href="https://charge.charge.neviews.expressed">charge.charge.neviews.expressed</a> in this document do not necessarily reflect the views or policies of NIST or the U.S. Government.

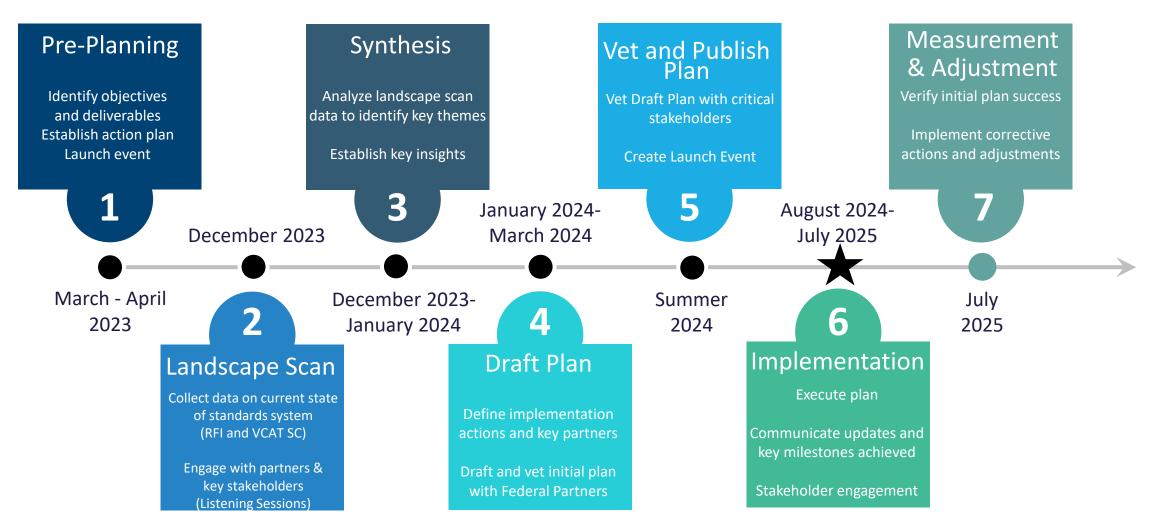
The Visiting Committee on Advanced Technology published a report in February 2024 providing 37 strategic recommendations for NIST and others in the USG to effectively implement the USG NSSCET.

The full report can be accessed here:

https://www.nist.gov/system/files/documents/202 4/04/09/VCAT%20Subcommittee%20on%20Intern ational%20Standards%20Report%202024\_FINAL\_ 1.pdf

#### ROADMAP TO STRATEGY IMPLEMENTATION





#### USG NSSCET IMPLEMENTATION ROADMAP OVERVIEW



#### **Immediate Actions:**

#### Greater Investment in Pre-Standardization Research R37

- Coordinate and utilize existing and future budget submissions to increase R&D funding for CETs R2, R4, R9, R12, R19, 33
- Support development of standards that address risk, security, and resilience

#### Participation in Standards Development R37

- Track and support coordination to remove and prevent barriers to private sector participation R4
- Improve communication between public and private sector R20

#### **Workforce Development**

#### **Ensuring Integrity in Standards Development R25**

- Work with existing and future budget submissions to a multi-year investment for the entire lifecycle of standards development from pre-standardization research through publication and adoption including test, certification and conformity assessment.
- Facilitate broad representation in standards development

U.S. GOVERNMENT NATIONAL STANDARDS STRATEGY FOR CRITICAL AND EMERGING TECHNOLOGIES (USG NSSCET):

IMPLEMENTATION ROADMAP

Published July 23, 2023

View the Implementation Roadmap:

https://www.whitehouse.gov/wpcontent/uploads/2024/07/USG-**NSSCET Implementation Rdmap v7 23.pdf** 

#### USG NSSCET IMPLEMENTATION ROADMAP OVERVIEW



#### **Actions for Sustained Implementation Outcomes**

**Outcome 1:** Increase investment in CET R&D and standardization to sustain U.S. technical leadership R5, R7, R8, R16

**Outcome 2:** Increase support for Federal programs to remove barriers and promote U.S. stakeholder participation in international standards development R6, R34, R35

**Outcome 3:** Enhance coordination across USG departments and agencies to sustain and grow participation in standardization R3

**Outcome 4:** Expand communication, information sharing, and other cooperative efforts between USG and private sector

R10, R11, R13, R14, R17, R18, R24, R26, R27, R29, R30, R31

Outcome 5: Enhance educational efforts to inform current and future standards leaders R20, R31, R32

**Outcome 6:** Enhance USG and like-minded nations' representation and sustain influence in international standards system R21, R22

**Outcome 7:** Enhance academia engagement providing critical partnerships to sustain the standards innovation ecosystem of the world R15, R28, R36

## VCAT RECOMMENDATIONS FULLY IMPLEMENTED (R11, R13)



**Align, coordinate and sustain support** for the scale and diversity of the U.S. standards system which has been pivotal in the overall competitiveness of the U.S. economy. **VCAT R1**, **R17**, **R27** 

Advocate for the global standards development principles agreed to in the World Trade Organization's Technical Barriers to Trade (WTO TBT) Committee decision. R3, R25

Leverage existing programs in public and private sectors to establish standards as a critical component to the innovation ecosystem of the world. R4, R34

**Strengthen partnerships with industry and academia** to meet the dynamic needs of CET standards. R4, R10

Showcase good practices and promote experience sharing across public and private sectors. R23, R27

<sup>\*</sup>Associated VCAT Report Recommendations shown as R#

## IMPLEMENTATION PRIORITY: PUBLIC PRIVATE COORDINATION MECHANISMS



- Exploring the use of the Small Business Innovation Research program as a scalable example of how to leverage existing mechanisms to accelerate standards development and participation. VCAT Recommendation R33
- A request for information to solicit feedback on implementation and information on existing standards recognition programs and best practices in workforce development <a href="https://www.federalregister.gov/documents/2024/10/08/2024-23174/existing-awards-and-recognition-programs-for-standards-development-and-best-practices-for-standards Implementation will take time, and the feedback we receive will be made public to support our collaborative work with the U.S. standards community. FR Doc. 2024-23174. VCAT Recommendation R32
- NIST hosted a Standards Forum on September 11 <a href="https://www.nist.gov/news-events/2024/09/nist-standards-forum">https://www.nist.gov/news-events/2024/09/nist-standards-forum</a>. VCAT Recommendations on communication and coordination

#### NIST STANDARDS CENTER OF EXCELLENCE





# ANSI ASSOCIATION FOR SETTING THE STANDARD SETTING THE STANDARD ACCURS

## \$15M Center of Excellence for Standardization announced October 15, 2024

Build and maintain strong partnerships between NIST and the private sector to support US engagement in international standardization

- pre-standardization engagement
- workforce capacity building
- information and data sharing hub
- collaborative pilot programs

#### **COLLABORATIVE VISION FOR SCOE**



- Opportunity to combine best of government and private sector engagement, training, and data management tools to accelerate broad U.S. participation in international standards in emerging technical areas
- Leverages strong ongoing NIST programs that deliver standards training and track standards engagement across the Federal government
- Establishes **collaborative pilots** to demonstrate the effectiveness, integration, and tailoring of developed tools for specific technical audiences

## DISCUSSION: FOSTERING SUSTAINED, HOLISTIC SUPPORT



Sustained, longterm support for standards engagement is critical for CETs, including at early stages of research.

- Public-private investment is critical for implementing the roadmap. How can we collectively advocate for sustained investment in NIST core programs that fundamentally underpin standards for CETs?
- Case studies and other messaging can assist with communication challenges regarding the impact and importance of standards. How can NIST help ensure these messages are reaching the right levels of leadership?
- Global standards development is dynamic and increasingly challenging to navigate. How should NIST prioritize its efforts?

#### SHARE YOUR FEEDBACK



#### www.nist.gov/standardsgov/usg-nss

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