

# Center of Excellence for Advancing Standardization for Critical and Emerging Technologies

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# Program Goal and Objectives



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## Establish and Maintain a Standardization Center of Excellence



To support U.S. engagement in international standardization for critical and emerging technologies (CETs) that are essential to U.S. economic competitiveness and national security.

# Funding Amount

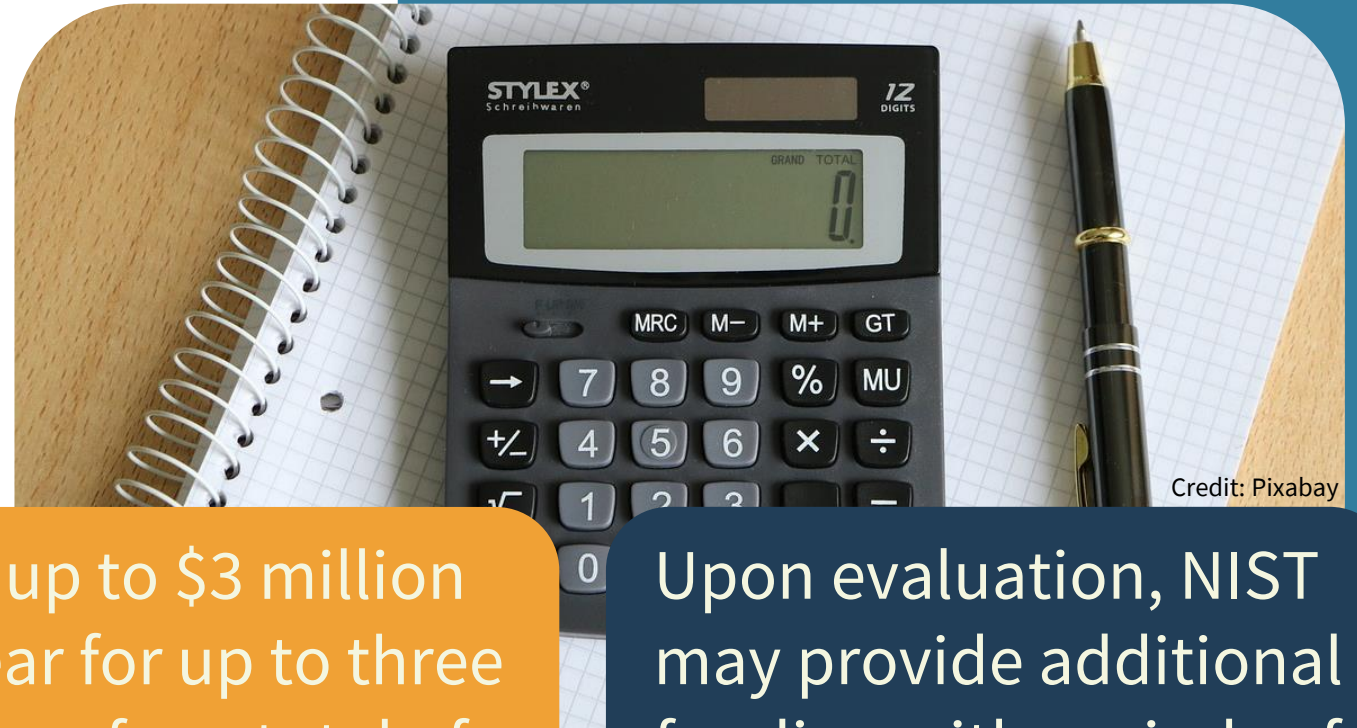
## Funding for one (1) award for up to five (5) years.



One (1) award up to \$6 million for the first two (2) years of the award in FY 2024.

Then, up to \$3 million per year for up to three (3) years, for a total of five (5) years\*.

Upon evaluation, NIST may provide additional funding with periods of up to five (5) years.



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\*Subject to availability of appropriated funds and satisfactory annual performance review.



# Scope of the Center of Excellence

Complement and leverage the work of the private sector, academia, NIST, and other government agencies through meaningful and impactful collaboration and partnerships by:

- 1 Creating awareness & promotion of standardization opportunities
- 2 Fostering opportunities to inform new standards development
- 3 Enhancing understanding of international standards governance
- 4 Developing standardization landscapes and/or roadmaps
- 5 Establishing relationships with standardization leaders
- 6 Fostering exploration of future standardization areas
- 7 Incentivizing engagement of private sector in standardization



# Lines of Effort

1



**Pre-  
Standardization  
Engagement**

2



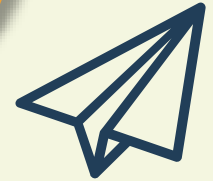
**Workforce  
Capacity  
Building**

3



**Information &  
Data Sharing Hub**

4



**Collaborative  
Pilot Programs in  
CETs with NIST**

# Pre-Standardization Engagement

Purposeful convening to produce seed documents to lay the foundation for standardization

Convening of groups, such as small-and medium-sized enterprises (SMEs), to understand their needs



Information sharing (e.g., via briefing documents describing current standardization activities)



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Credit: Pixabay



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## Facilitating Engagement of Early- to Mid- Career Professionals, and Orientation for Decision-Making Executives

- ✓ Workshops
- ✓ Simulations
- ✓ Boot Camps
- ✓ Experiential Learning





# Information and Data Sharing Hub

Develop and implement tools and information resources to engage and influence international standardization



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Workshops

Experiential  
Learning

Assessments/  
Studies

Landscapes &  
Roadmaps

Mentorships

Information on  
Standards Activities



# Collaborative Pilot Program

In collaboration with NIST, drive the acceleration and robustness of standardization readiness in selected CETs via NIST-industry engagement and collaboration in pre-standardization and metrology efforts.



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Credit: Pixabay

# What's in it for NIST?



## **Amplify The Impact of NIST Research on Global Standards**

Provide measurement expertise to expanded stakeholder networks to enable standardization.



## **Leverage SCoE Stakeholder Networks to Inform NIST Research Strategy**

Utilize the feedback loop created through continual interactions with CET stakeholders.



## **Ease the Research-to-Standardization Transition**

High-value learning and leadership opportunities to prepare for effective engagement in standardization.



## **Access New Tools and Resources**

Data-sharing hub and other standardization tools increase staff efficiency and available bandwidth for mission-critical research.



## **Strengthen Justification for NIST New/Existing Core Mission Initiatives**

Alignment to NIST mission enables SCoE outputs to support the case for NIST activities.



## **Accelerate Standardization Readiness**

Pilot programs transform NIST research and leadership into impactful international standards and innovation products.

# Selected Awardee



**ASTM International**

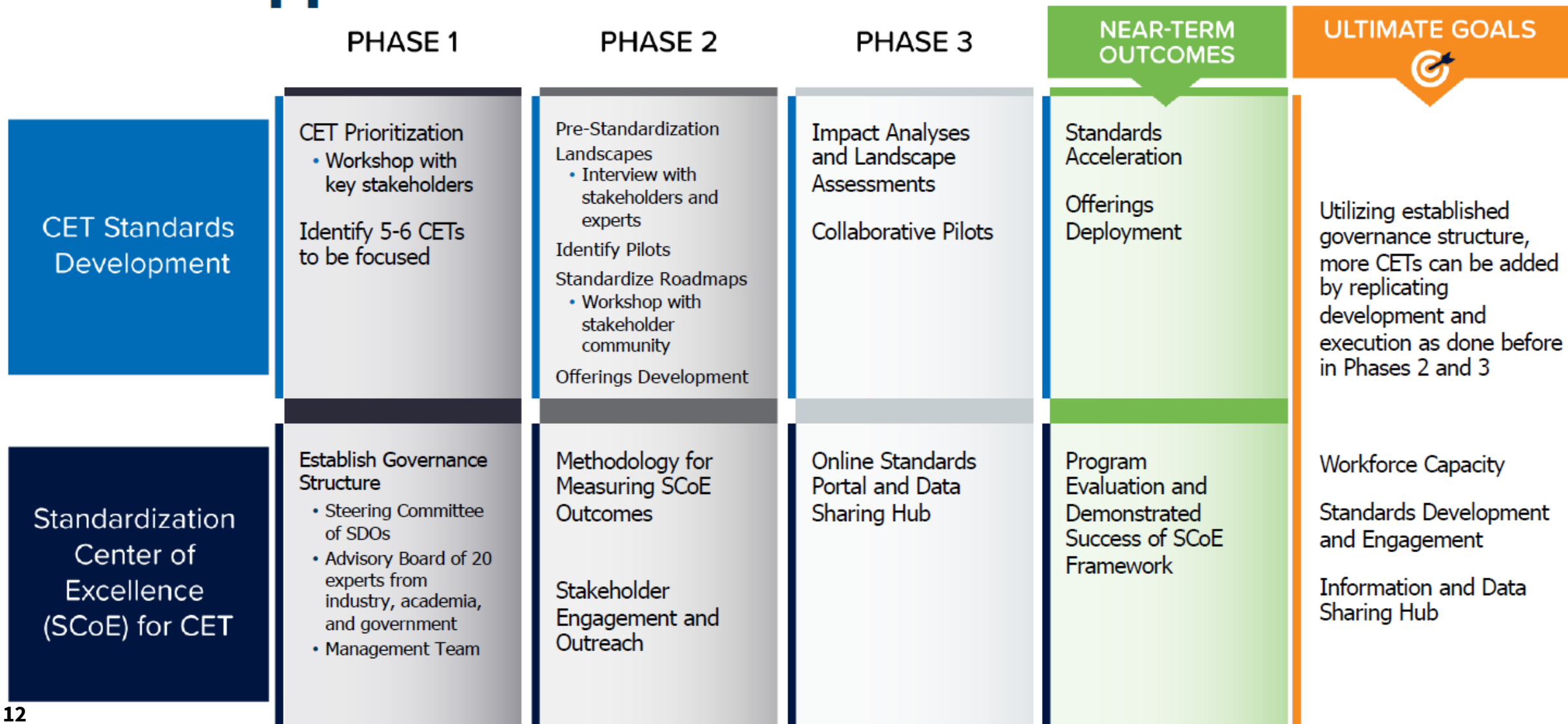
## Initial Partnering Organizations





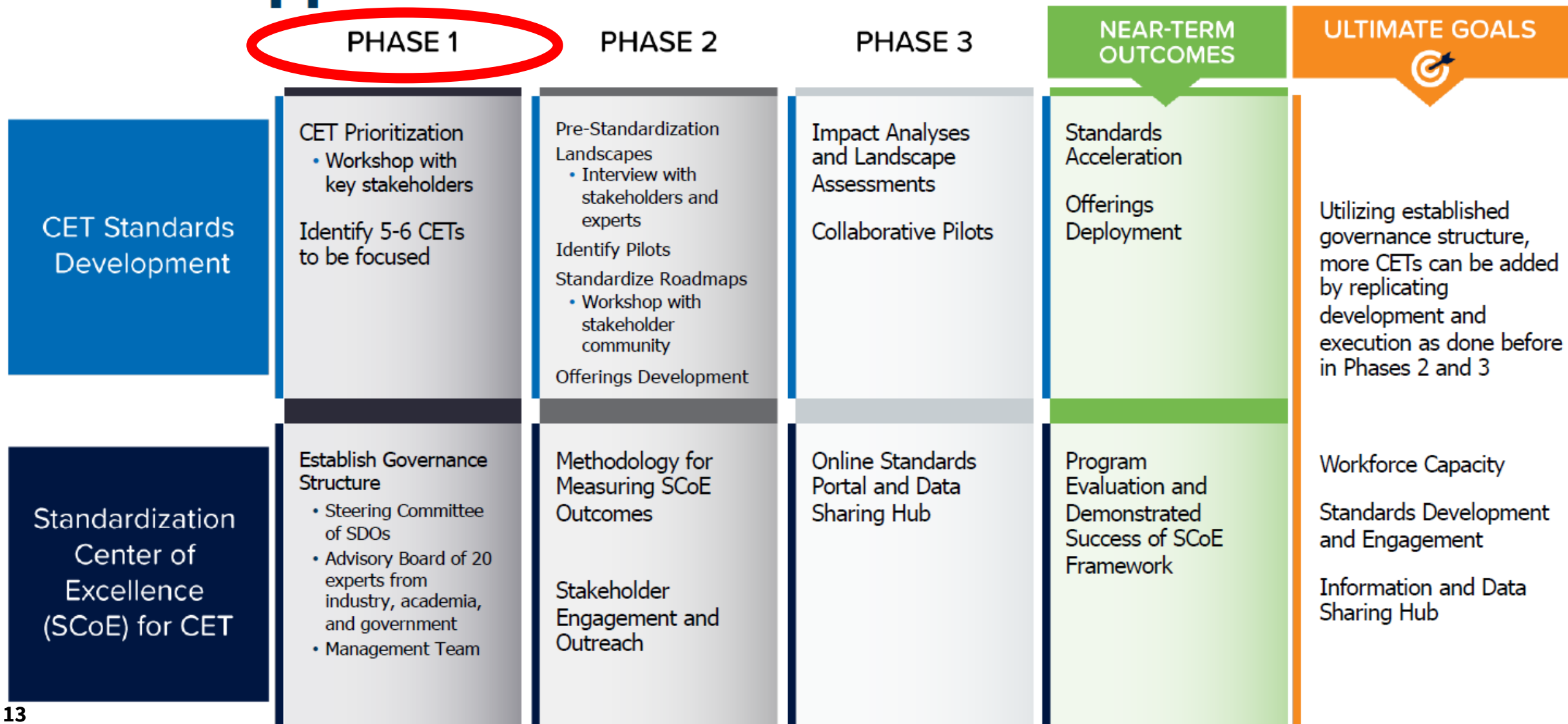


# Phased Approach





# Phased Approach



# Workshop May 14 - 15, 2025



## Workshop Objectives

- Introduce the SCoE's mission of enhancing U.S. leadership in international standardization
- Identify standardization gaps and barriers to participation within existing CETs
- Identify tools and resources essential to supporting U.S. engagement in international standardization

Approx. 200  
Participants

Presentations on  
Challenges &  
Opportunities

Breakout Sessions  
to Identify Needs  
and Gaps

Discussion on  
Operationalizing &  
Next Steps



# Branding



Critical and Emerging Technologies

Pre-Standardization Engagement

Workforce Capacity Building

Information and Data Sharing Hub

Pilot Programs

ASCET  
CENTER OF EXCELLENCE

ADVANCING STANDARDIZATION FOR  
CRITICAL AND EMERGING TECHNOLOGIES

About

News

Get Involved



## Advancing Standardization for Critical and Emerging Technologies

ASCET is a transformative initiative aimed at supporting private sector-driven U.S. engagement and capacity building in the development and use of international standards.

[Learn More](#)

# Thank You

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