Federal Engagement in Emerging Technology Standards

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Agenda

I. International Technology Standards Landscape

II. Federal Actions to Strengthen U.S. Engagement in Critical and Emerging Technology (CET) Standards Development

New Challenges in CET Standards Development Landscape

ITU

ASTM INTERNATIONAL

IEC

ISO

IEEE SA STANDARDS ASSOCIATION

3GPP A GLOBAL INITIATIVE

- PRC's increased participation, with a clear vision to become global standards-setters
- The future of U.S. leadership in innovation and competition in global markets at risk
- Upholding the integrity of international standards in coordination with U.S. allies and partners

Enhancing Coordination on CET Standardization

Efforts underway:

- ✓ Coordinating with federal agencies on Standards for Critical and Emerging Technology (CET)
- ✓ Performing a review of USG engagement in technology standards
- ✓ Coordinating with U.S. industry, allies, and partners

The United States is committed to maintaining the **integrity** of and **trust** in international standards by **coordinating with allies and partners** to strengthen the existing voluntary, multi-stakeholder, multilateral, and consensus-driven approach to standards development aligned with our **shared values and principles**

Technology Focus Areas

EMERGING

Advanced Communication

Artificial Intelligence

Biotechnology

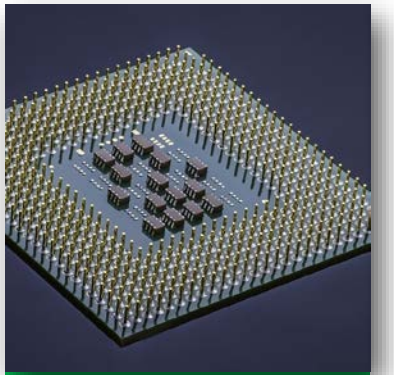
Distributed Ledger Technology

Quantum Information Science

CRITICAL

Cybersecurity

Privacy



Advanced Microelectronics

Automated and Connected Infrastructure

Energy Technologies

APPLICATIONS

U.S. Priorities

- ✓ Remain Leaders in International Technology Standards Development
- ✓ Lead in Research and Development
- ✓ Foster Strong Public-Private Technology Standards Partnerships
- ✓ Advocate Open Participation
- ✓ Continue to Support SDOs
- ✓ Grow Talent for International Technology Standards Development

New International Engagement in Standards

Quadrilateral Security Dialogue (Quad)

- **U.S. (NIST/State) chairs the CET WG Standards SG**
- **Leading efforts to facilitate coordination on technology standards development, including public and private sectors**
- **Establishing sector-specific contact groups to promote an open, inclusive, private-sector-led, multi-stakeholder, and consensus-based approach**
  - **AI and Advanced Communications**

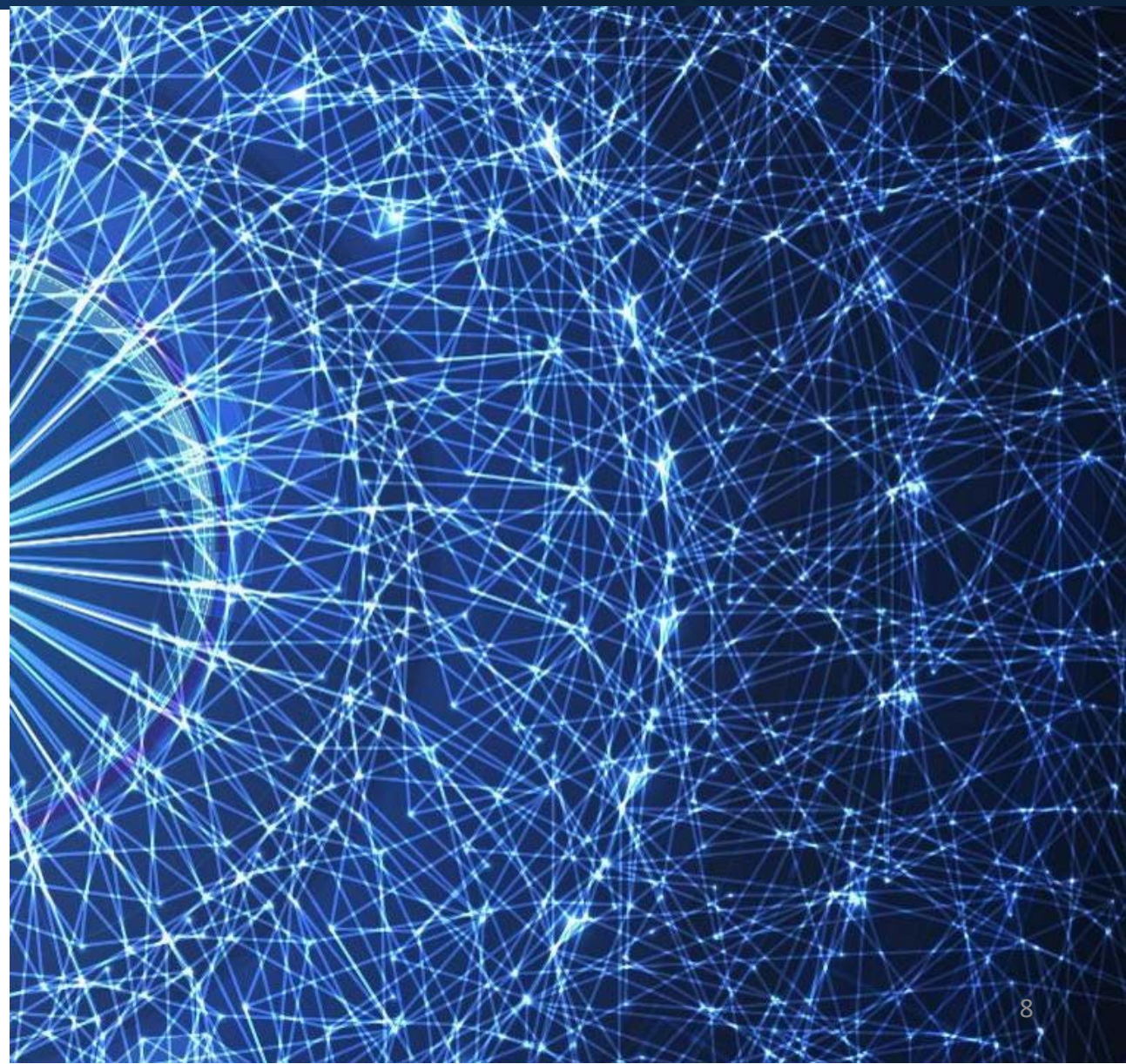
U.S.-EU Trade and Technology Council

- **NIST and ITA Co-Chair Technical Standards Subgroup**
  - **https://www.trade.gov/useuttc-contact**
- **Identified AI as CET area of interest for coordination**
- **Collaborating on a U.S.-EU standards notification system**
- **Identifying opportunities to engage the private sector**

Key Takeaways

A sustained long-term proactive approach to standards development is required in order to ensure that the U.S. remains a global leader in standards development for critical and emerging technologies. This approach will be built around:

- **A sustained investment in R&D – a critical component of successful international standards development**
- **Expanded coordination among government, industry, and academia**
- **Expanded collaborations among US government and likeminded partners and allies**
- **A commitment to industry-led standards development processes**



Thank You