

# What Information is Being Shared Today?

*Enabling AI and Machine Learning Through Public-Private Partnerships – July 17, 2024*



# Information Resources

- SDO Standards Portfolios
  - Overviews by technology area (existing and planned standards)
  - How to participate
- Standards Landscapes
  - By technology area – compilation of current activities
  - Produced by the private sector, government agencies
- Assessments/Studies
  - Private sector- and government-authored
  - Collection/synthesis of standards-related data
- Standards Coordination Roadmaps
  - to assess and address standardization needs in a particular industry or technology area
  - identify existing standards and standards in development
  - define where standards gaps exist
  - intended to inform resource allocation, avoid duplication of effort, and coordinate standards actions

# ANSI Standards Action

- *Standards Action* provides timely, accurate information about current standards development work in which ANSI plays a role.
- The publication is designed to facilitate participation in the [American National Standards \(ANS\) development process](#) as well as other domestic, regional, and international standardization activities advanced by ANSI.
  - Includes current work underway at the [International Organization for Standardization \(ISO\)](#), the [International Electrotechnical Commission \(IEC\)](#), and [ISO/IEC Joint Technical Committee \(JTC\) 1](#), through U.S. Technical Advisory Groups (TAGs)
- Each weekly edition – available by download or free email subscription – comprises a round-up of the latest information available to help all interested parties get informed and engaged in standards.

# ANSI Standardization Collaboratives

Advance **cross-sector coordination** in the standards and conformance programs needed to support and grow **emerging technologies and markets**

## Active Collaboratives:



**2017:** Unmanned Aircraft Systems Standardization Collaborative



**2011:** ANSI Electric Vehicles Standards Panel



**2003:** Homeland Defense and Security Standardization Collaborative



**2016:** America Makes & ANSI Additive Manufacturing Standardization Collaborative



**2004:** Nanotechnology Standards Panel

## Previous Collaboratives:



**2013:** ANSI Network: Smart and Sustainable Cities



**2010:** The Financial Management of Cyber Risk



**2006:** ID Theft Prevention and ID Management Standards Panel



**2012:** ANSI Energy Efficiency Standards Coordination Collaborative



**2007:** ANSI Network on Chemical Regulations



**2005:** Healthcare Information Technology Standards Panel



**2010:** ANSI-NIST Nuclear Energy Standards Coordination Collaborative



**2007:** Biofuels Standards Coordination Panel



**1994:** Information Infrastructure Standards Panel

# Global AI Standards Landscape



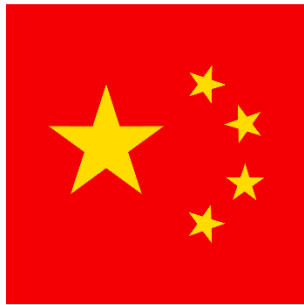
ISO/IEC JTC1/SC 42  
Horizontal ICT AI Standards



Significant initiative on Ethics



Focus on telecom networks & some applications



Comprehensive national AI standards, participation in ISO/IEC, ITU




EU AI Act driving EU-specific standards, collaborating with ISO/IEC

# US and ISO/IEC JTC 1/SC 42

- US is focused on developing international AI standards
- US stakeholders led the formation of international AI Standards committee ISO/IEC JTC 1 SC 42; US holds chair and committee management positions
- US companies, institutions and govt. agencies (including NIST, NSA, FDA) are participating actively in SC 42

## JTC 1/ SC 42 work program examples

Published	Under development
<ul style="list-style-type: none"> <li>• AI concepts and terminology</li> <li>• Governance implications on use of AI</li> <li>• Guidance on Risk Management</li> <li>• Overviews of trustworthiness, bias, ethical and societal concerns</li> <li>• Framework for machine learning systems</li> <li>• Assessments of robustness, ML classification performance</li> <li>• AI Management System</li> </ul>	<ul style="list-style-type: none"> <li>• Functional safety and AI systems</li> <li>• Guidance for explainability, transparency, mitigating unwanted bias</li> <li>• Data quality management and governance</li> <li>• AI system testing, verification and validation, quality models, functional safety, lifecycle</li> <li>• Oversight of AI systems</li> <li>• AI applications, beneficial use cases</li> <li>• Environmental sustainability aspects</li> </ul>

50 Countries	1 Country 1 Vote	33 Active Projects	30 Published	40+ Liaisons
				

# Sector-focused Standards

- In industries that are coming to rely heavily on AI, sector-specific standards projects are also beginning to emerge in ISO and IEC committees, as well as in other venues:
  - Automotive/aerospace: *SAE International, ULSE*
  - Financial Services: *Accredited Standards Committee X9*
  - Healthcare: *AAMI, ADA, CTA, DICOM, etc.*
  - Consumer IoT: *CTA, etc.*
  - Biotechnology: *American Type Culture Collection*

# Objectives for AI Standards Engagement

- Scientifically sound standards that are accessible and amenable to adoption
- Standards that reflect the needs and input of diverse global stakeholders
- Standards that are developed in a process that is open, transparent, and driven by consensus
- International relationships that are strengthened by engagement on AI standards



# Private Sector Priorities

- Regular government engagement with private sector stakeholders on both AI-related technical issues and broader AI standards and policy discussions
- Government recognition that many priority interactions will depend on private-sector leadership and joint efforts from the global AI and standards communities.
- Consideration of the full standards lifecycle—including research and related technical activities—as well as the full range of issues, both technical and societal, associated with standards for AI applications

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