

# ANSI's Approach to Standards Coordination for National Priorities and Emerging Technologies

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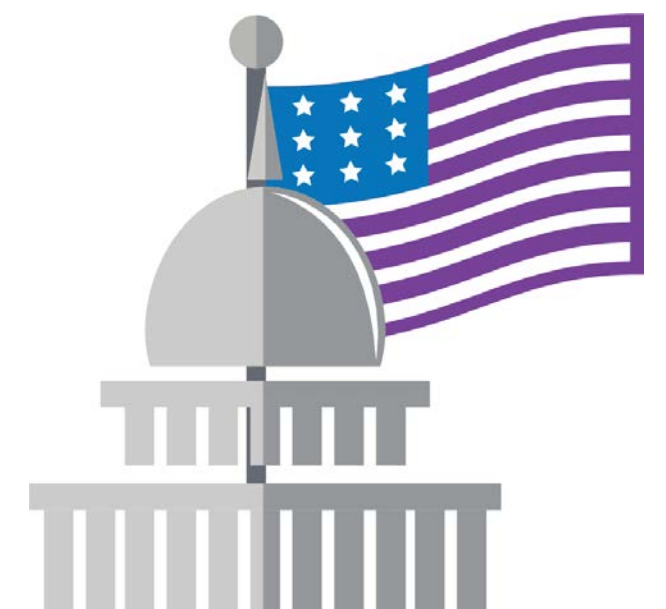


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# U.S. Standards and Conformity Assessment System

## the public – private partnership

- No single government agency has control over standards
  - Each agency determines which standards meet its needs
- **National Technology Transfer and Advancement Act (NTTAA)** — Public Law 104-113
  - Directs federal government agencies to adopt voluntary consensus standards (VCS) wherever possible in lieu of developing government unique standards
- **OMB Circular A-119** — Spells out government strategy for standards development per NTTAA





# American National Standards Institute

- Founded in 1918, ANSI is a private non-profit membership organization whose mission is to enhance U.S. global competitiveness and the American quality of life by promoting, facilitating, and safeguarding the integrity of the U.S. voluntary standardization system
- ANSI represents and serves the diverse interests of more than 270,000 companies and organizations and 30 million professionals worldwide
  - businesses, professional societies and trade associations, standards developing organizations (SDOs), government agencies, consumer and labor organizations
- Official U.S. representative to the International Organization for Standardization (ISO) and, via the U.S. National Committee, the International Electrotechnical Commission (IEC)



# Purposes of ANSI Include . . .

(selected excerpts from ANSI By-Laws)

- To serve as the national coordinating institution for voluntary standards, conformity assessment and related activities in the United States of America . . .
- To provide the means for determining the need for new standards and conformity assessment programs; to promote activity by existing organizations competent to resolve the need; and to work toward establishment of suitable groups for these purposes where such do not already exist
- To cooperate with departments and agencies of federal, state and local governments in achieving (i) optimum compatibility between government laws and regulations and the voluntary standards of industry and commerce . . .



# ANSI Standards Coordination Activities

One way ANSI coordinates and supports the standardization system is through **standards collaboratives and workshops**, which:

- Bring together the public and private sector in a **neutral forum**
- Identify current and in-development standards, where gaps exist, and recommend solutions
- Identify organizations that can perform the needed work and priorities





# ANSI Standards Coordination Activities (contd.)

- Typically convened in response to needs identified by government, industry, and/or SDO stakeholders
- Do not develop standards
- Do not make policy recommendations – focus instead on how standards can support evolving policy framework
- Participation is open to all interested stakeholders
- Decisions are based on consensus







**2020:** Standardization and the Commercial Space Industry



**2020:** Standardization Empowering AI-enabled Systems in Health Care Workshop



**2018:** Dietary Supplements Standardization Coordination



**2017:** Unmanned Aircraft Systems Standardization Collaborative



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



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



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



**2011:** ANSI Electric Vehicles Standards Panel



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



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



**2009:** Workshop Toward Product Standards for Sustainability



**2007:** ANSI Network on Chemical Regulations



**2007:** Biofuels Standards Coordination Panel



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



**2005:** Healthcare Information Technology Standards Panel



**2004:** Nanotechnology Standards Panel



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



**1994:** Information Infrastructure Standards Panel

# Workshops

(examples: commercial space industry, HDSSC)

- One-off standalone events or a series of them under a formal Collaborative for purposes of information sharing and networking
- A written report describes what was discussed and any recommendations
- Format enables timely information exchange but less in depth analysis than a standardization roadmap in terms of recommendations
- Less resource intensive than a roadmap on volunteers and staff
- Makes sense when there is a less urgent need for coordination and comprehensive analysis and issues can be addressed sequentially



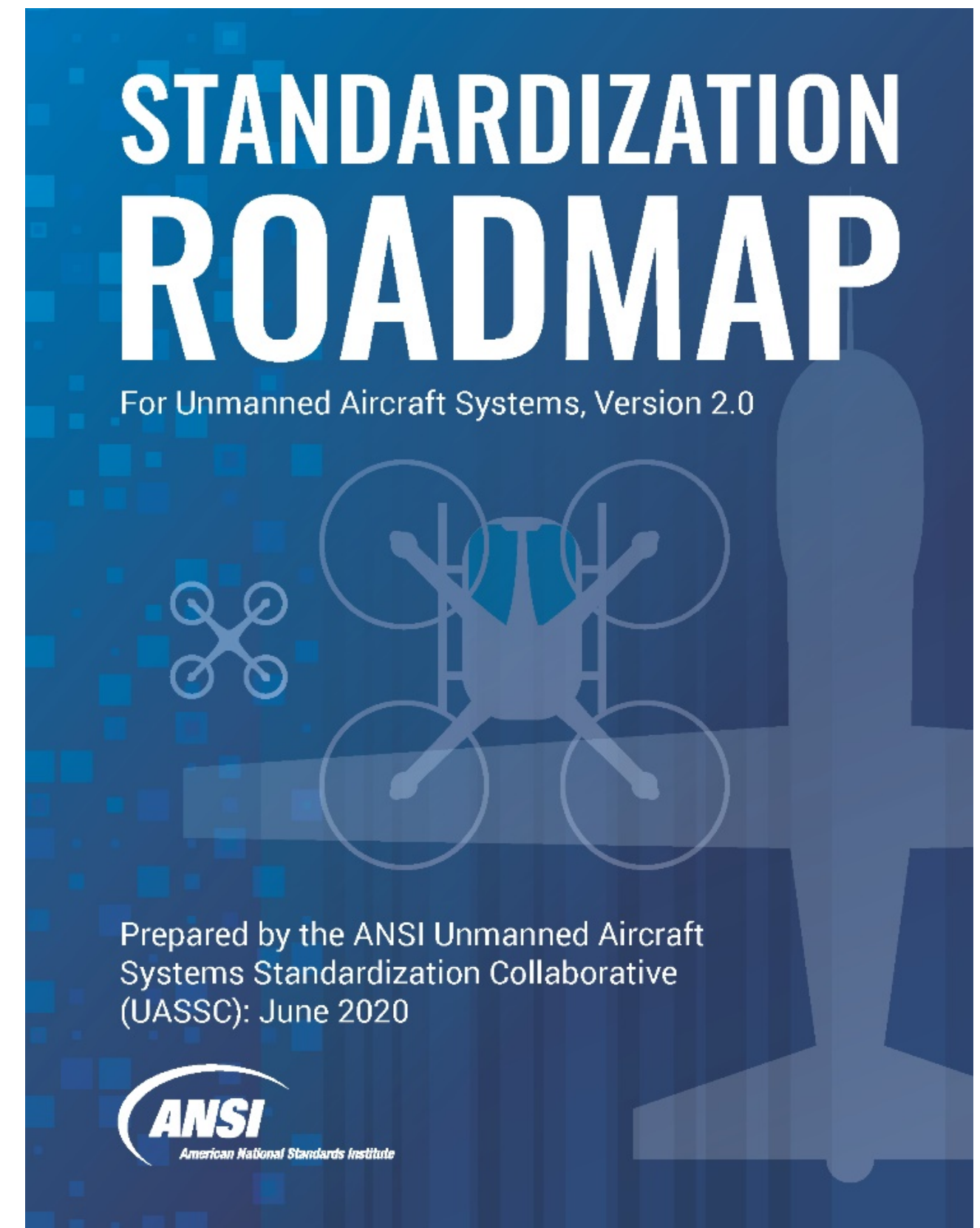
# Roadmaps

(examples: UASSC, AMSC, EESCC)

- Document developed over the course of a year describing the current and desired future standardization landscape
- Provides in depth gap analysis and recommendations where standards are needed
- Most work is done virtually with subject matter experts drafting the gaps and recommendations
- More resource intensive than workshops on volunteers and staff
- Makes sense when multiple SDOs are involved and there is a need for comprehensive and simultaneous analysis of issues
- Subsequent work may include promotion, reports on progress by SDOs to address recommendations, and roadmap updates

# ANSI Unmanned Aircraft Systems Standardization Collaborative (UASSC)

- **Mission:** To coordinate and accelerate the development of the standards and conformity assessment programs needed to facilitate the safe integration of unmanned aircraft systems into the U.S. national airspace system, with international coordination and adaptability
- **Deliverable:** A comprehensive roadmap describing the current and desired future standardization landscape for UAS
  - V1 published 12/18; V2 published 6/20
  - 71 gaps (standards needs) identified
  - Gaps progress report published 6/21
  - Available for free download at [www.ansi.org/uassc](http://www.ansi.org/uassc)





# ANSI Collaboratives - Ingredients for Success

- Demonstrated need for coordination
- Broad stakeholder support
- Clearly defined objectives, timelines, and deliverables
- Committed leadership and participants
- Stable funding mechanism
  - Direct support
  - Sponsorships with attendant recognition benefits

# Consider ANSI a Resource

- As the NCVHS Subcommittee on Standards embarks upon its efforts:
  - to assess the current standardization landscape in light of federal priorities for interoperability and
  - to identify gaps or opportunities for improving the adoption, implementation and use of standards to accommodate the changing health information ecosystem
- We encourage you to consider how ANSI may be of assistance to you and the standardization community.
- Thank You



# Contact Information

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