What information is being shared today?

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American National Standards Institute (ANSI)

Enabling Automated and Connected Infrastructure Through Public-Private Partnerships | July 30, 2024

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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

2016: America Makes & ANSI Additive Manufacturing Standardization Collaborative

2011: ANSI Electric Vehicles Standards Panel

2004: Nanotechnology Standards Panel

2003: Homeland Defense and Security Standardization Collaborative

Previous Collaboratives:

2013: ANSI Network: Smart and Sustainable Cities

2012: ANSI Energy Efficiency Standards Coordination Collaborative

2010: ANSI-NIST Nuclear Energy Standards Coordination Collaborative

2010: The Financial Management of Cyber Risk

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

1994: Information Infrastructure Standards Panel

Electric Vehicles Standardization Panel (EVSP)

EVs@Scale Roadmap of Codes & Standards

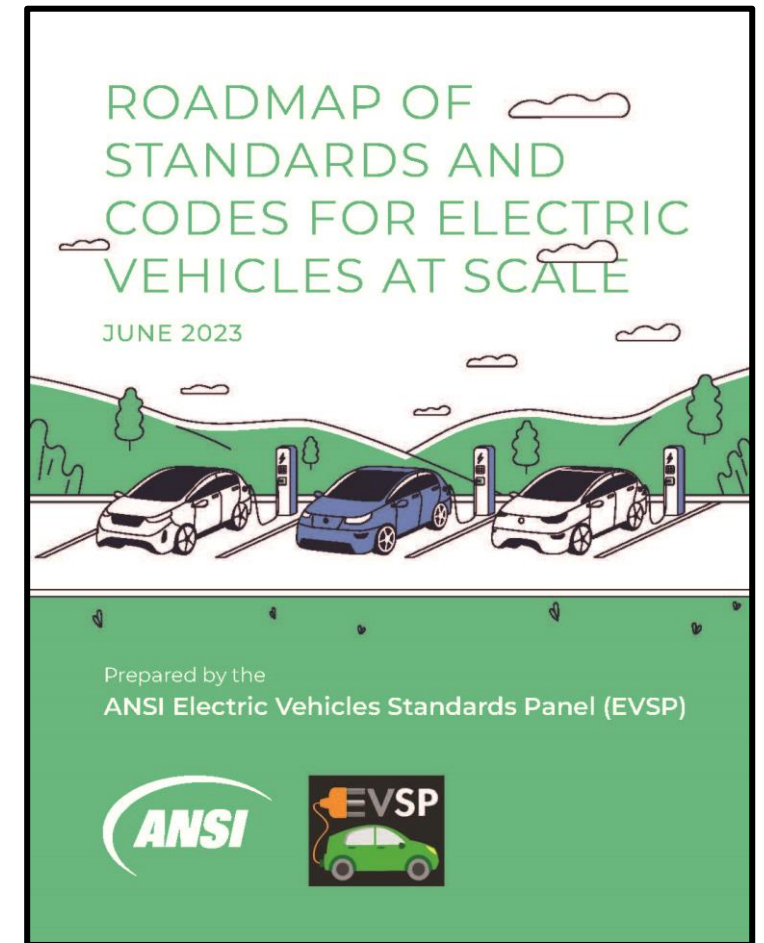**Government Partner:** Argonne National Lab (DOE)

Identifies: EV issues, standards, codes, guides, and related policies that exist (e.g., NEVI Final Rule) or that are in development

- Core Areas: Vehicle Systems, Charging Infrastructure, Grid Integration, **Cybersecurity**

37 "Gaps": Recommend new or revised standards, codes, guides (etc.) as well as related priorities and organizations that can do the work

- 14 high priority, 20 medium priority, 3 low priority, 23 require R&D

Approximately 130 individuals from 80 organizations contributed

Focus is U.S. market with international harmonization issues noted

ROADMAP OF STANDARDS AND CODES FOR ELECTRIC VEHICLES AT SCALE

JUNE 2023

Prepared by the ANSI Electric Vehicles Standards Panel (EVSP)

Free download at
www.ansi.org/evsp

UAS Standardization Collaborative (UASSC)

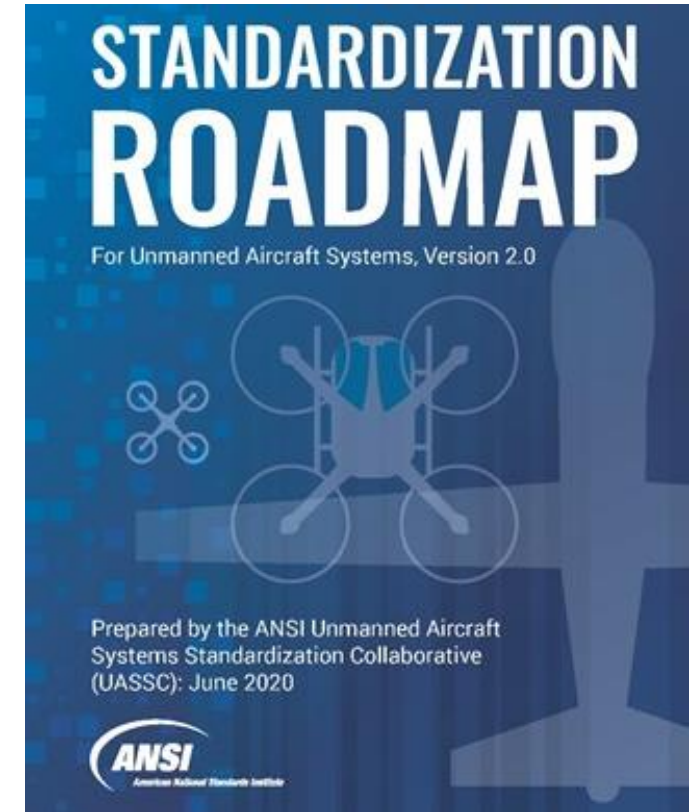**Government Partner:** FAA UAS Integration Office

Mission: To coordinate and accelerate the development of the standards and conformity assessment programs needed to facilitate the safe integration of unmanned aircraft systems (UAS) into the national airspace system (NAS) of the United States, with international coordination and adaptability

Technical Areas:
- Airworthiness Standards
- Flight Operations Standards
  - General Concerns and Personnel Training, Qualifications, and Certification Standards
  - Infrastructure Inspections, Environmental Applications, Commercial Services, and Workplace Safety
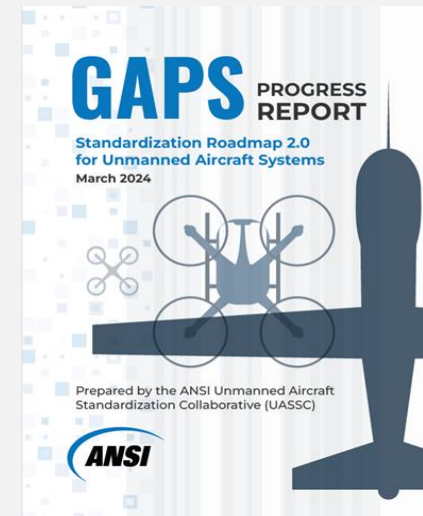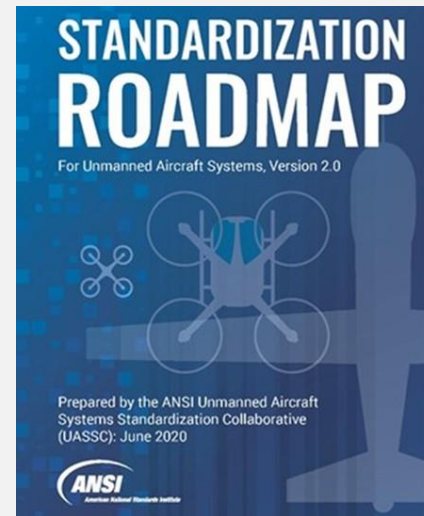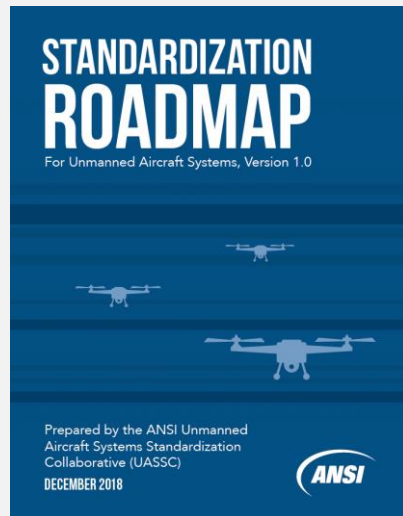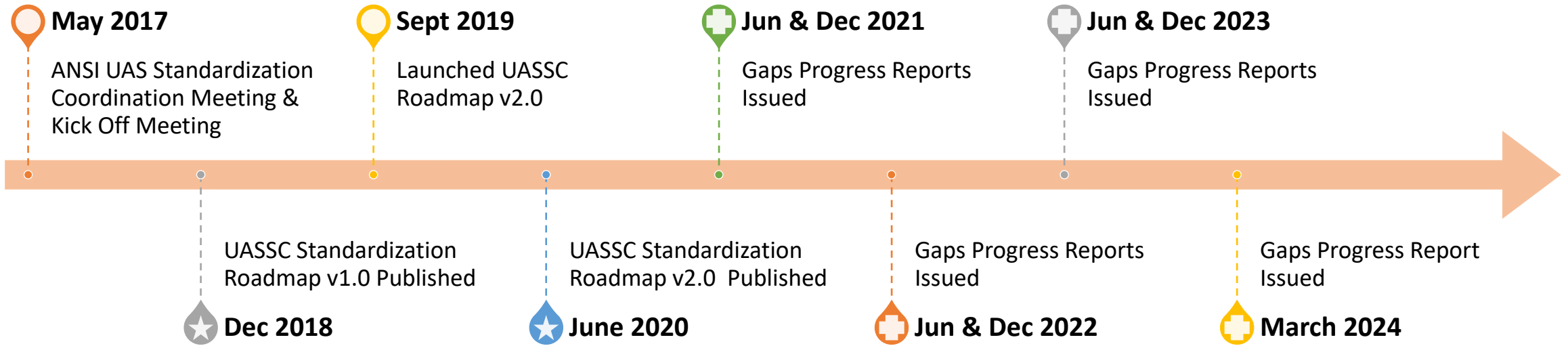 - Public Safety

Total Gaps: 71

Participation: Approximately **400** individuals from **250** organizations

Roadmap v2.0 (2020)

ANSI UASSC Timeline

May 2017
ANSI UAS Standardization Coordination Meeting & Kick Off Meeting

Sept 2019
Launched UASSC Roadmap v2.0

Jun & Dec 2021
Gaps Progress Reports Issued

Jun & Dec 2023
Gaps Progress Reports Issued

UASSC Standardization Roadmap v1.0 Published
Dec 2018

UASSC Standardization Roadmap v2.0 Published
June 2020

Gaps Progress Reports Issued
Jun & Dec 2022

Gaps Progress Report Issued
March 2024

STANDARDIZATION ROADMAP
For Unmanned Aircraft Systems, Version 1.0
Prepared by the ANSI Unmanned Aircraft Systems Standardization Collaborative (UASSC)
DECEMBER 2018

STANDARDIZATION ROADMAP
For Unmanned Aircraft Systems, Version 2.0
Prepared by the ANSI Unmanned Aircraft Systems Standardization Collaborative (UASSC): June 2020

GAPS PROGRESS REPORT
Standardization Roadmap 2.0 for Unmanned Aircraft Systems
March 2024
Prepared by the ANSI Unmanned Aircraft Standardization Collaborative (UASSC)

Objectives for 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 standards

Private Sector Priorities

- Regular government engagement with private sector stakeholders on both technical issues and broader standards and policy discussions

- Government recognition that many priority interactions will depend on private-sector leadership and joint efforts from the global technology 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 automated and connected infrastructure applications

Contact Information

A&C Infrastructure Brainstorming Session | July 30, 2024

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