

# ANSI Unmanned Aircraft Systems Standardization Collaborative (UASSC)

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Overview



# Why a Roadmap? Many Standards Developing Organizations (SDOs) Involved in UAS

ASTM International



International Organization for Standardization




RTCA, Inc.



SAE International



Institute of Electrical and Electronics Engineers



Consumer Technology Association



Open Geospatial Consortium



Underwriters Laboratories Inc.




National Fire Protection Association



American Society of Mechanical Engineers



American Society of Safety Professionals

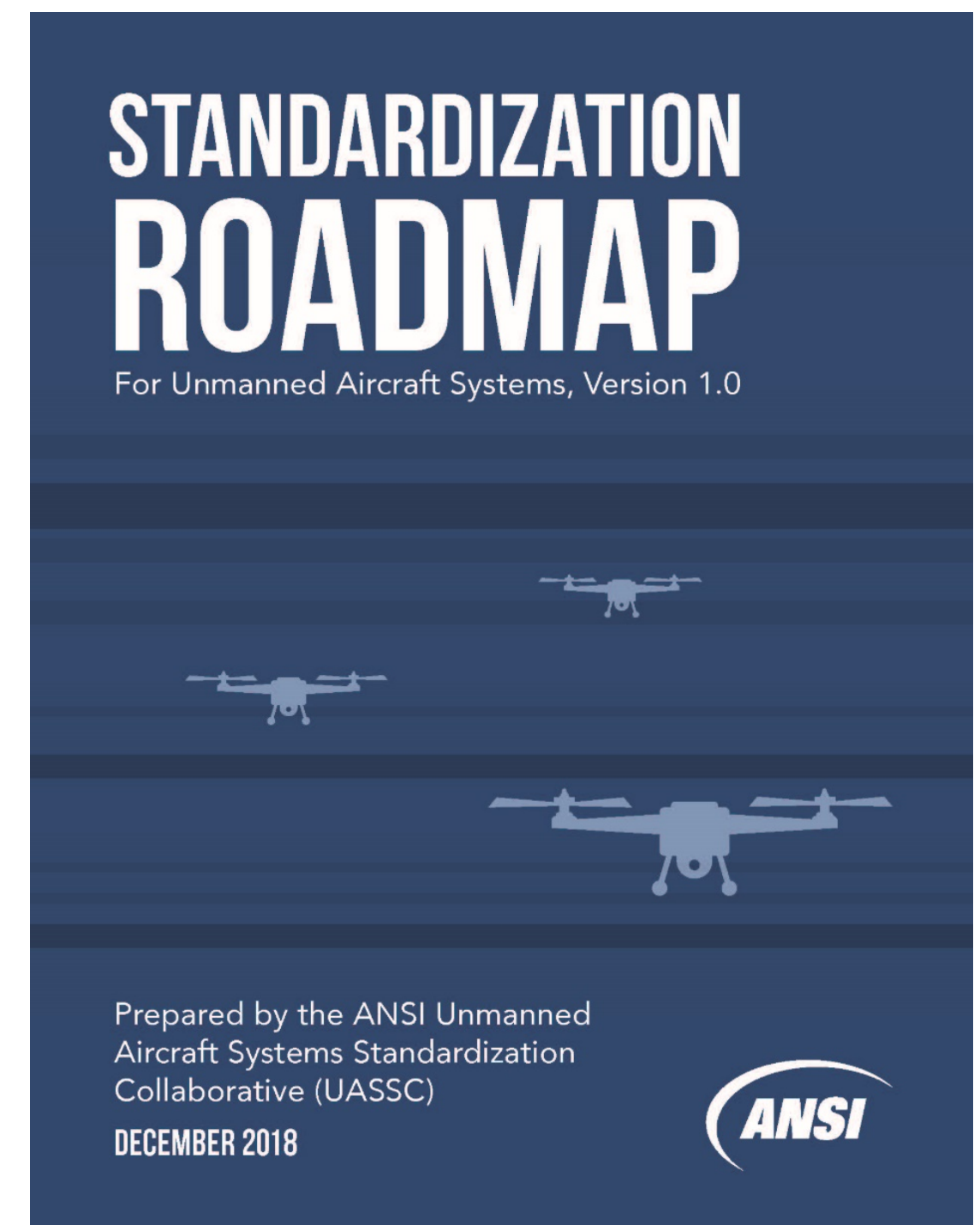


Telecommunications Industry Assn.




# ANSI Unmanned Aircraft Systems Standardization Collaborative (UASSC) Mission and Deliverable

- ◆ **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
- ◆ **Deliverable:** A comprehensive roadmap v1.0 published in December 2018 describing the current and desired future standardization landscape for UAS
  - 60 gaps (no published standard) identified w/accompanying recommendations
  - Available as a free download at [www.ansi.org/uassc](http://www.ansi.org/uassc)



# Objectives

- ◆ To foster coordination and collaboration among industry, standards developing organizations, regulatory authorities, and others on UAS standardization issues, including pre-standardization research and development
- ◆ To clarify the current and future UAS standardization landscape and enable stakeholders to better focus standards participation resources
- ◆ To provide a basis for coherent and coordinated U.S. policy and technical input to regional and international audiences on UAS standardization
- ◆ To support the growth of the UAS market with emphasis on civil, commercial, and public safety applications
  
- ◆ UASSC is NOT developing standards



# Structure and Participation

- ◆ Steering Committee
- ◆ WG<sub>1</sub> – Airworthiness
- ◆ WG<sub>2</sub> – Flight Operations and Personnel Qualifications
- ◆ WG<sub>3</sub> – Infrastructure Inspections and Commercial Services Operations
- ◆ WG<sub>4</sub> – Public Safety Operations
- ◆ Participation open to UAS stakeholders that have U.S. operations
  - ANSI membership not a prerequisite
  - Participants come from industry, government agencies, standards developing organizations (SDOs), and other interested stakeholders
  - **Over 300 individuals from some 175 public- and private-sector organizations** supported the roadmap's development



# Activity Since Roadmap's Publication

- ◆ Promotion at industry events and meetings
  - Panels at FAA UAS Symposium and AUVSI XPONENTIAL
  - Presentations to SAE G-18, G-32, G-34
- ◆ Outreach to engage new participants
- ◆ Steering Committee ranking of high priority gaps
- ◆ Survey to obtain participant feedback
- ◆ New co-chairs
  - Jay Merkle, Executive Director, UAS Integration Office, Federal Aviation Administration
  - Matt Zuccaro, President & CEO, Helicopter Association International
- ◆ Steering Committee meetings: discussion of goals for version 2

# Goals for Version 2

- ◆ Expand topics covered
  - spectrum, urban air mobility, and recreational operations
- ◆ Bring in subject matter experts not previously involved
- ◆ Identify potentially overlooked issues and gaps
- ◆ Track progress to address the roadmap recommendations, including new or completed work
- ◆ Review priorities, noting steering committee rankings of high priority gaps
- ◆ Incorporate participant feedback and update the document as appropriate
- ◆ Publish roadmap version 2.0 end of June 2020

# Today's Objectives

- ◆ Get to know one another
- ◆ Share perspectives on top UAS issues and issues not covered in the roadmap
- ◆ Get input on how the roadmap is organized to increase its value
- ◆ Who is not here today who should be involved
- ◆ Discuss any issues not being addressed by standards and instances of overlap or duplication in standardization