

ANSI's Role in Standards Coordination to Support Emerging Technologies

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American National Standards Institute (ANSI)

- ◆ 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 members include businesses, professional societies and trade associations, standards developing organizations (SDOs), government agencies, and 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)



ANSI's Roles

- ◆ Represents U.S. globally
- ◆ Accredits standards developing organizations (SDOs) and approves American National Standards
- ◆ Accredits / approves technical advisory groups (mirror committees) for ISO / IEC technical work
- ◆ Accredits conformity assessment bodies
- ◆ Provides education and training services
- ◆ Offers neutral forum for discussing standards needs and priorities
- ◆ Serves as a bridge between U.S. public & private sectors
- ◆ Ensures integrity of the standards and conformity assessment system
- ◆ ANSI doesn't develop standards

Examples of ANSI-accredited SDOs

<p>ASTM International</p>  <p>ASTM INTERNATIONAL</p>	<p>IEEE</p>  <p>Advancing Technology for Humanity</p>	<p>National Fire Protection Association</p> 
<p>IAPMO</p> 	<p>AAMI</p>  <p>Advancing Safety in Healthcare Technology</p>	<p>National Electrical Manufacturers Association</p>  <p>Setting Standards for Excellence www.nema.org</p>
<p>American Society of Mechanical Engineers</p>  <p>SETTING THE STANDARD</p>	<p>NSF International</p> 	<p>UL</p> 
<p>American Society of Civil Engineers</p>  <p>AMERICAN SOCIETY OF CIVIL ENGINEERS</p>	<p>SAE International</p> 	<p>International Code Council</p>  <p>INTERNATIONAL CODE COUNCIL®</p>

And more than 200 additional organizations



Benefits of Standards and Conformance to Standards – Key for New Technologies

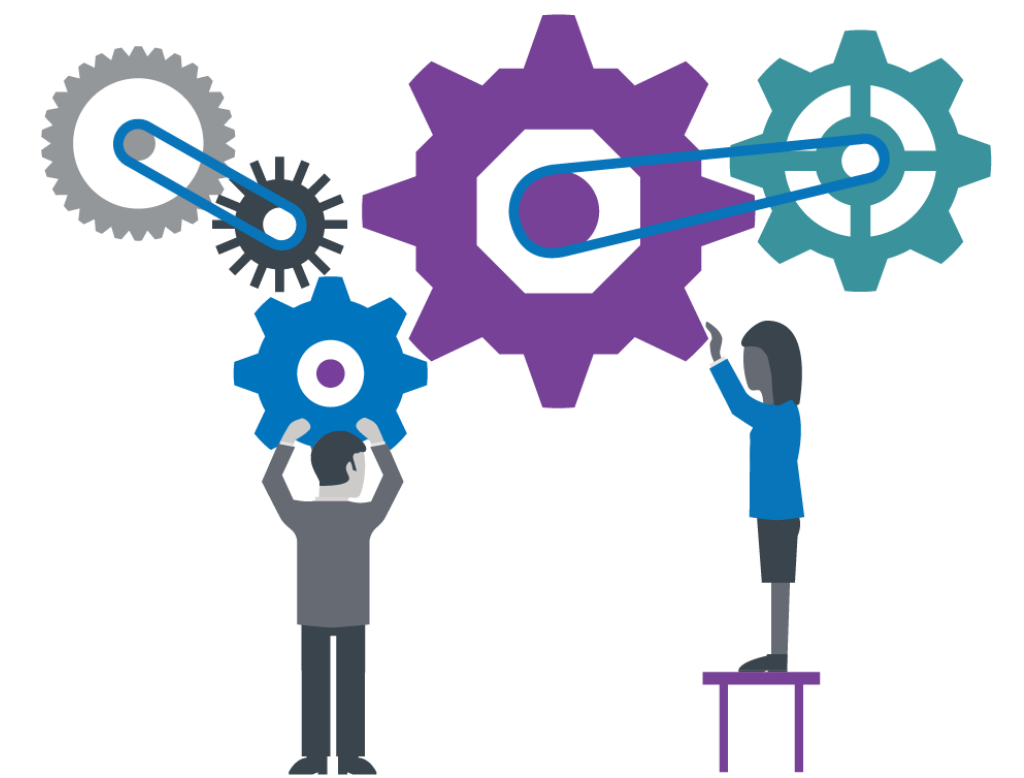
- ◆ Spur innovation and drive business growth
- ◆ Enable interoperability of products, processes, and systems
- ◆ Lower research and development costs
- ◆ Promote quality and efficiency throughout global supply chains
- ◆ Reduce time to market
- ◆ Protect safety, health, and the environment
- ◆ Reduce liability and regulatory compliance risks
- ◆ Demonstrate that products perform as claimed
- ◆ Create public trust and foster widespread acceptance



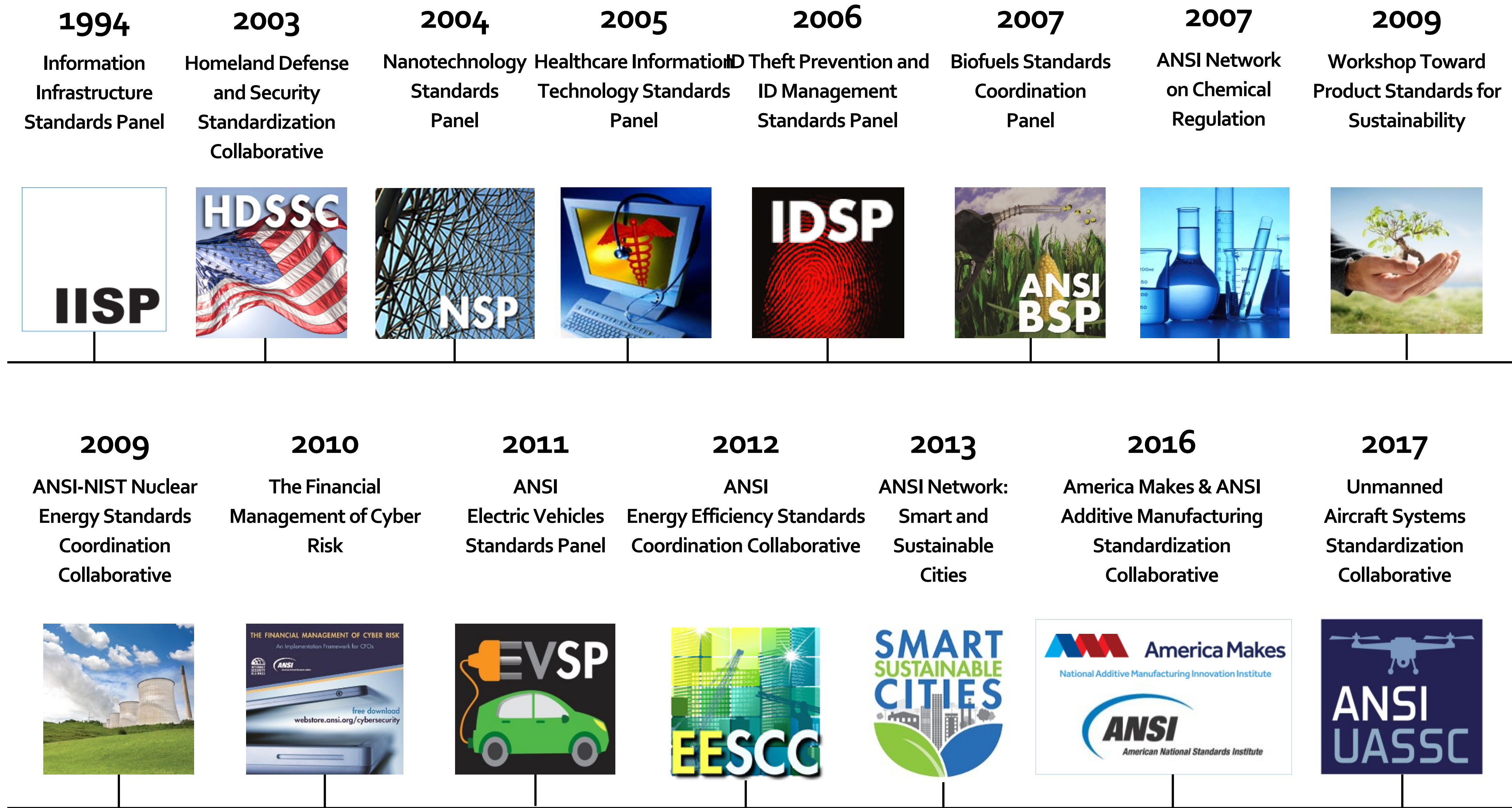
www.standardsboostbusiness.org

Coordination and Harmonization Activities

- ◆ **ANSI Standards Panels, Collaboratives, and Workshops** are cross-sector coordinating activities established to promote the development and compatibility of voluntary consensus standards and conformity assessment programs necessary to support emerging technologies and national/global priorities.
 - Coordinate the efforts of the private and public sectors
 - Identify existing standards, standards in development, and compliance programs
 - Define where gaps exist based on stakeholder needs
 - Recommend additional work needed, timelines for its completion, and organizations that can perform the work
 - Helps to inform resource allocation for standards participation, avoid duplication of effort, and drive coordinated standards activity



ANSI Collaboratives and Workshops



America Makes & ANSI Additive Manufacturing Standardization Collaborative (AMSC)

- ◆ Launched in March 2016 to coordinate and accelerate the development of industry-wide additive manufacturing (AM a/k/a 3D Printing) standards and specifications to help facilitate the growth of the AM industry
- ◆ National Institute of Standards and Technology (NIST), U.S. Department of Defense (DoD), Federal Aviation Administration (FAA) and several SDOs were instrumental in its formation
- ◆ Before AMSC there was no process for identifying priorities and interdependencies in the development of standards and specifications for additive manufacturing
- ◆ A number of SDOs are engaged in standards-setting for various aspects of AM, prompting the need for coordination to maintain a consistent, harmonized, and non-contradictory set of AM standards and specifications

AMSC Deliverables

- ◆ AMSC Standardization Roadmap for Additive Manufacturing, Version 2.0 (June 2018)
 - Updates and expands on gaps identified in version 1.0 (February 2017)
 - Identifies existing standards and specifications, as well as those in development, assesses gaps, and makes recommendations for priority areas where there is a perceived need for additional standardization
- ◆ AMSC Standards Landscape
 - A list of standards that are directly or peripherally related to the issues described in the roadmap
- ◆ Both available as free downloads at www.ansi.org/amsc



ANSI Unmanned Aircraft Systems Standardization Collaborative (UASSC)

- ◆ Launched in September 2017 to coordinate and accelerate the development of the standards and conformity assessment programs needed to facilitate the safe integration of unmanned aircraft systems (UAS a/k/a drones) into the national airspace system of the United States, with international coordination and adaptability
- ◆ Federal Aviation Administration (FAA), Association for Unmanned Vehicle Systems International (AUVSI), and many other public- and private-sector stakeholders participated in a May 2017 exploratory meeting which indicated broad-based support to establish UASSC
- ◆ Focus is to support the growth of the UAS market with emphasis on civil, commercial, and public safety applications
- ◆ A standardization roadmap is targeted for completion by end of 2018
- ◆ More info is available at www.ansi.org/uassc



Consider ANSI a Resource

We're happy to discuss providing assistance to members of the community as standards coordination needs develop!

Thank You



For More Information

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