

An Introduction:

American National Standards Institute United States Standards System







Key Terms

Standards

 Market-driven product and service specifications (e.g., technical requirements, management systems, etc.)

Regulations

 Mandatory technical specifications, which may include particular standards or conformity assessment procedures

Conformity Assessment

 Processes and systems used to verify the compliance of a product, person, process or system to either a standard or a regulation (e.g., testing, certification)









- The American National Standards Institute leads standards, conformity assessment, and related activities in the United States of America.
- Founded in 1918, ANSI is a private, non-profit organization.
- ANSI is not a government agency or a standards developer.









- Represents U.S. globally
- Ensures integrity of the standards and conformity assessment system

- Offers neutral forum
- Accredits standards developers and conformity assessment organizations
- Coordinates partnership between U.S. public and private sectors



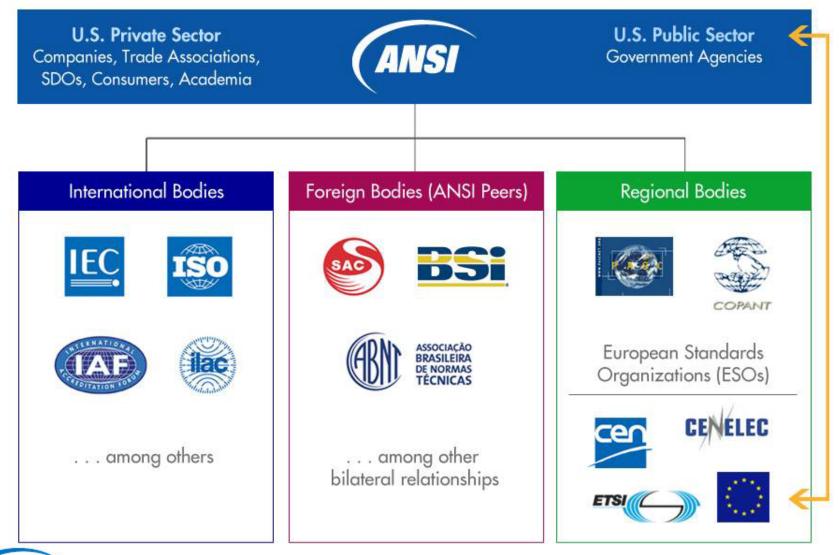


- U.S. member of ISO
- U.S. member of the IEC, via ANSI's U.S. National Committee
- a U.S. member of IAF and ILAC
- member of regional forums in the Pacific Rim and the Americas
- liaison with groups in Europe, Africa and the Middle East
- bilateral agreements with other national standards bodies





Snapshot: ANSI International, Regional, and Bilateral Activities











The ANSI Federation represents more than 125,000 companies and organizations and 3.5 million professionals worldwide

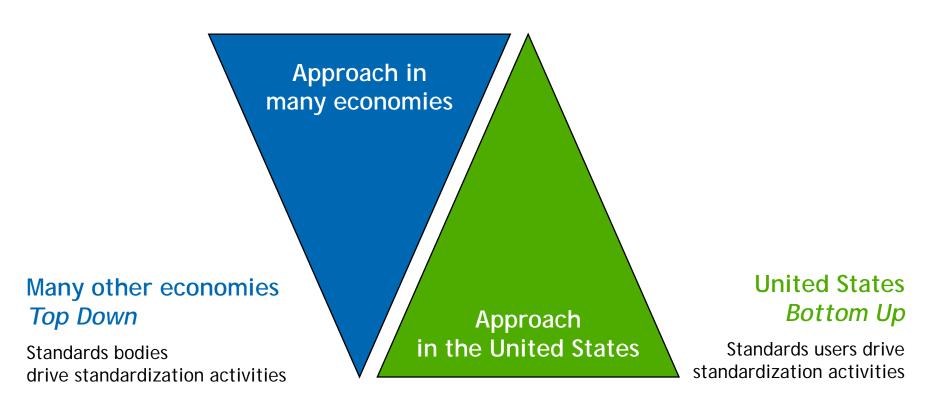
Members of the ANSI Federation include . . .

- Academia
- Individuals
- Government
- Manufacturing
- Trade Associations

- Professional Societies
- Service Organizations
- Standards Developers
- Consumer and Labor Interests
- and many more



U.S. Standards and Conformity Assessment System comparison with many other economies





U.S. Standards and Conformity Assessment System comparison with many other economies

Emphasizes private-sector standards solutions

- Relies on private-sector compliance verification for both regulatory and non-regulatory functions
- Provides a strong voice and greater authority to standards users and individual stakeholders



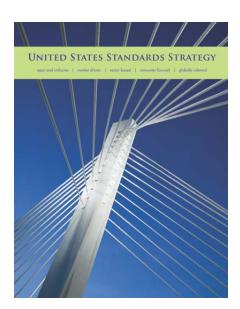
U.S. Standards and Conformity Assessment System the public-private partnership

- 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
 - Encourages each government agency to seek existing private-sector standards that are appropriate for its purpose and mission



U.S. Standards and Conformity Assessment System reliable - flexible - responsive

- Market driven
- Flexible and sector-based
- Industry-led and government-supported



This system is designed to . . .

- Support a broad range of stakeholder engagement
- Address emerging priorities and new technologies
- Allow stakeholders to find the solutions that best fit their respective needs

As defined in the United States Standards Strategy www.us-standards-strategy.org









- In the U.S. alone, there are more than 100,000 standards
- These documents are being developed by:
 - standards developing organizations (SDOs)
 - over 500 consortia
 - thousands of committees
- Over 9,500 approved American National Standards



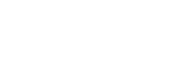
U.S. Standards System guiding principles

- Standards should meet societal and market needs and should not be developed to act as barriers to trade
- The U.S. endorses the globally accepted standardization principles of the World Trade Organization Technical Barriers to Trade Agreement
 - Transparency
 - Openness
 - Impartiality
 - Effectiveness and relevance
 - Consensus
 - Performance-based

- Coherence
- Due process
- Technical Assistance
- Flexible
- Timely
- Balanced







WORLD TRADE

ORGANIZATION



U.S. Standards System different tools for globally relevant standards





National Participation (one country one vote)	Direct Participation	Consortia
Treaty Organizations	Nationally Accepted	
 Non-Treaty Organizations 	 Internationally Accepted 	
Examples	Examples	Examples
ISO, IEC, ITU, CODEX, etc.	ASTM International, ASME, SAE, etc.	IGRS, W3C, etc.



American National Standards (ANS)

- Currently there are approximately 225 ANSI-accredited standards developers
 - Not all standards developed by these organizations are submitted for consideration as ANS
- There are approximately 10,000
 American National Standards
- Learn more: www.ansi.org/ansvalue









American National Standards

value of the ANS designation

U.S. Standardization System examples of ANSI-accredited SDOs and U.S. TAGs



ANSI American Netional Standards Institute

Getting Involved in U.S.-Based SDOs







Getting Involved in U.S.-Based SDOs (2)

www.StandardsF	ortal .org	a resource	for global trade	Annerican Hational Standards			
Standards Portal Home 标准信息平台首页	BACKGR	OUND	KEY INFORMATION	▶ RESOURCES			
	Resources: Standards Developing Organizations (SDOs)						
U.S. Information	$\frac{1}{E} = \frac{1}{R}$	(SDOs) that pla	ay a role in the U.S. system, including (rork, and their international activities by	of Standards Developing Organizations contact information, the scope of standards y geographic region. Information in this SDO			
Organizations (SDOs)	CV	SDO Na					
Trade Associations	ICS Code (What's this?) Industry Sector						
Conformity Assessment Bodies (CABs)			e about the directory				
U.S. Standards Strategy		Lean non	about the unectory				
U.S. Conformity Assessment Principles		View by S	DO Name View by ICS \	/iew by Industry Sector			
Search for Standards (NSSN)		Acronym Organization name Keywords					
		AATCC	The American Association of Textile Chemists and Colorists	Textiles, textile coloration, design, dyeing, finishing, merchandising, test methods, training, quality control			
Ads by Google		AF&PA	The American Forest & Paper Association	Wood, structural design, construction, residential, commercial, engineered wood products, structural panels, framing, green building			
Online Mech. Engineering		AHRI	Air-Conditioning, Heating, and Refrigeration Institute	Air-conditioning, refrigeration, heating, ventilation, controls, boilers, furnaces			
Find & Compare Online Engineering Degrees. Request Free Info. www.eLearners.com/MechEng		AIHA	American Industrial Hygiene Association	Occupational health and safety, management systems, respiratory protection, ventilation systems, worker safety, industrial hygiene,			

ANSI American National Standards Institute

U.S. Standards System examples of roles and responsibilities

	ANSI	Standards Developers	Companies	Consumers	Government	NIST
Coordinates U.S. system and policy development	4					
Independently runs standards development activities		*				
Coordinates and monitors USG use of and participation in VCS activities						*
Legal metrology and WTO-TBT enquiry point						*
Provides technical input for standards development			1	4	*	*
Participates in U.S. policy development	*	4	4	4	*	*

