



An Introduction:

American National Standards Institute United States Standards System





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



ANSI's mission

To enhance both the global competitiveness of U.S. business and the U.S. quality of life by promoting and facilitating voluntary consensus standards and conformity assessment systems, and safeguarding their integrity



- Represents U.S. globally
- Accredits standards developing organizations and approves American National Standards
- Accredits / approves technical advisory groups (mirror committees) for ISO / IEC technical work
- Accredits conformity assessment bodies
- Standards re-seller
- Education and training
- Offers neutral forum for identifying standards needs and discussion of issues
- Serves as a bridge between U.S. public & private sectors
- Ensures integrity of the standards and conformity assessment system





- 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 Americas and the Pacific Rim
- 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

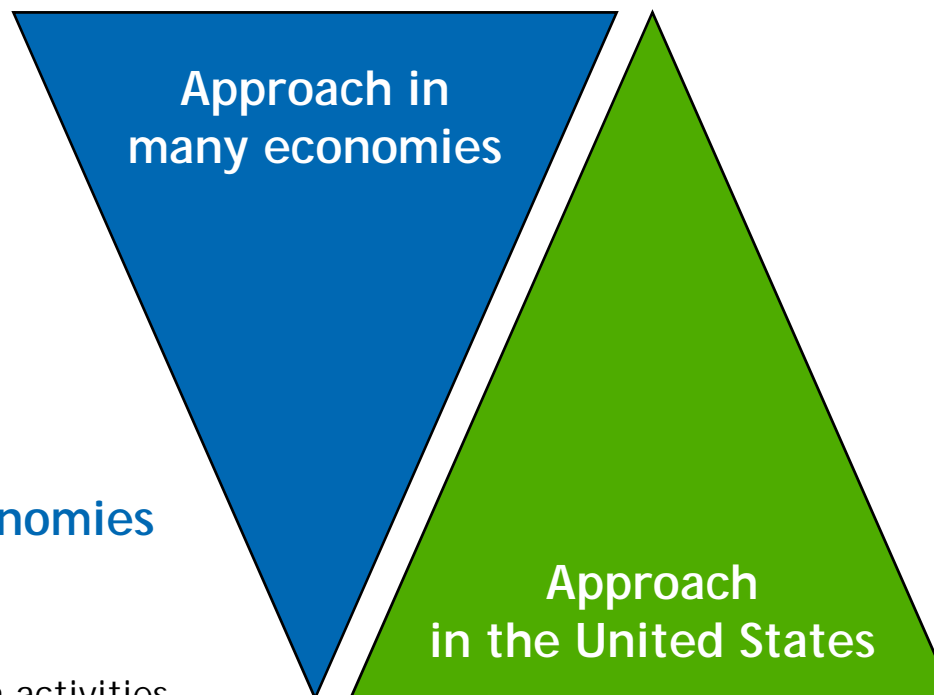
Members of the ANSI Federation include . . .

- Industry
- Government
- Trade Associations
- Academia
- Individuals
- Standards Developers
- Professional Societies
- Service Organizations
- Consumer and Labor Interests
- and many more



U.S. Standards System

market driven



Many other economies
Top Down

Standards bodies
drive standardization activities

United States
Bottom Up

Standards users drive
standardization activities

U.S. Standards System



- System is led by private sector, supported by public sector
- Emphasizes private-sector standards and conformity assessment solutions
- Provides a strong voice and greater authority to standards users and individual stakeholders
- Strength from diversity

The Public-Private Partnership



- No single government agency has control over standards
 - Each agency determines which standards meet its needs

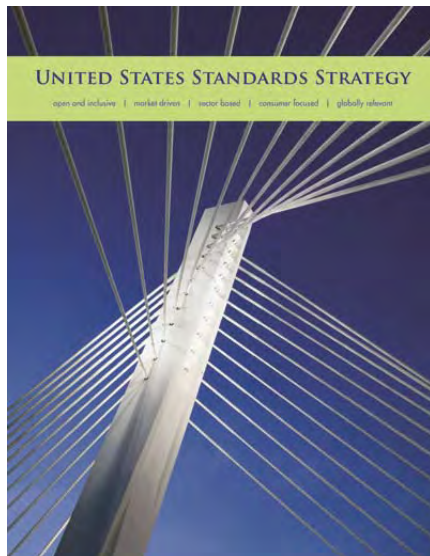
- **National Technology Transfer and Advancement Act (NTTAA) — Public Law 104-113**
 - Encourages each government agency to seek existing private-sector standards that are appropriate for its purpose and mission
 - Standards are “Incorporated by Reference” into regulation

U.S. Standards 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

U.S. Standards System

guiding principles



- 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
- Standards should meet societal and market needs and should not be developed to act as barriers to trade
- SDOs should avoid duplication of, and overlap with, the work of other standardizing bodies



Multiple-Path Approach

different tools for globally relevant standards



- **Use in the global marketplace** is the best measure of an international standard, not which organization developed the standard
- Some standards bodies adopt ISO and IEC standards, and define these as international
- ANSI and U.S. stakeholders take **multiple-path approach**
 - Globally relevant standards may be developed by ISO, IEC, or any other standards developer that adheres to WTO/TBT principles
 - Users decide which standards meet their needs, which SDOs they want to work with

U.S. Standardization System

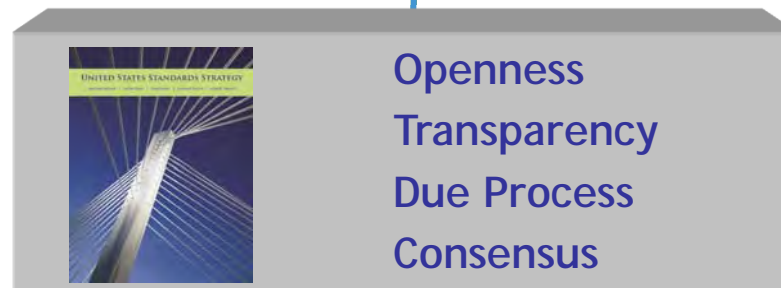


- ANSI accreditation of SDOs and U.S. TAGs promotes alignment with the WTO's Internationally Recognized Principles for Standards Development

ANSI Essential Requirements
for the development of
American National Standards

World Trade Organization
Technical Barriers to Trade
Agreement

Referenced in the
*United States
Standards Strategy*

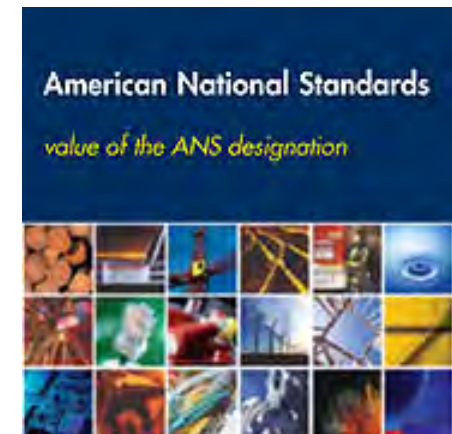


Referenced in the WTO
TBT Committee Second
Triennial Review - Annex 4

American National Standards (ANS)



- Currently there are approximately 240 ANSI-accredited standards developers
 - Not all standards developed by these organizations are submitted for consideration as ANS
 - Standards developers are accredited based on the “ANSI Essential Requirements”
- There are more than 11,000 American National Standards
- Learn more: www.ansi.org/ansvalue



www.ansi.org/essentialrequirements

U.S. Standardization System

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

ASTM
International



American
Society of
Mechanical
Engineers



International
Code Council



American
Dental
Association



National
Electrical
Manufacturers
Association



National Fire
Protection
Association



SAE International

Society of Automotive Engineers



Institute of
Electrical and
Electronics Engineers



Underwriters Laboratories Inc.

American
Society
of Civil
Engineers




American
Petroleum
Institute



And more than 200
additional organizations



Getting Involved in U.S.-Based SDOs




ANSI
American National Standards Institute

www.StandardsPortal.org
a resource for global trade


THE INTERNATIONAL LANGUAGE
OF COMMERCE IS STANDARDS

www.StandardsPortal.org provides answers to the critical standards, conformance, market access, and trade-related questions that companies require to succeed in the U.S. and internationally.

Follow the links below to access information on your market of interest.




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INTERNATIONAL TRADE RESOURCES




U.S. - China SCCP




Standards Alliance




U.S. - Africa CESP




ANSI International Activities




U.S. Market Access Directory




China Roundtable



ANSI China Program



Delegation Visits to ANSI



International Trade Resources

U.S. Standards System

examples of roles and responsibilities

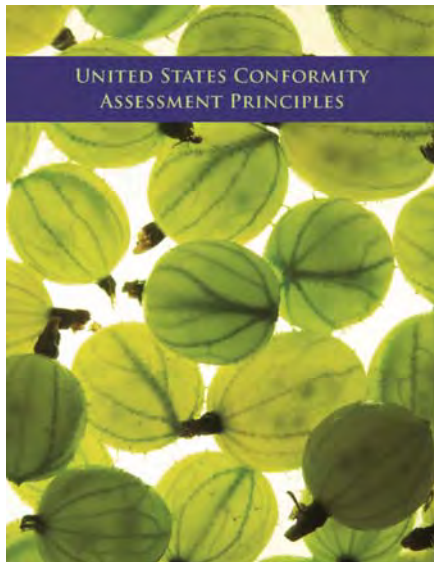
	ANSI	Standards Developers	Companies	Consumers	Government	NIST
Coordinates U.S. system and policy development	✓					
Independently runs standards development activities		✓				
Coordinates and monitors USG use of and participation in VCS activities						✓
Legal metrology and WTO-TBT enquiry point					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

U.S. Conformity Assessment System

reliable – flexible – responsive



- The United States Conformity Assessment Principles (USCAP) document explains key aspects of compliance verification



The USCAP is a guidance document that can be considered in conjunction with the *United States Standards Strategy*

United States Conformity Assessment Principles



www.ansi.org/uscap

U.S. Conformity Assessment System



- The U.S. conformity assessment system - much like the standards system - is decentralized and approaches vary among sectors
- Activities are a mix of government (regulatory programs) and private sector (market-based programs)
- The system relies on private sector mechanisms to achieve both regulatory and non-regulatory conformance

ANSI-ANAB-ACLASS-FQS Accreditation Programs

	Standards	Standards Developer - NY	ANSI <i>Essential Requirements</i>
		U.S. Technical Advisory Group - NY	ANSI International Procedures
	Conformity Assessment	Certificate Issuer ✓ DC	ASTM E2659
		Product Certification Body ✓ DC	ISO/IEC 17065
		Greenhouse Gas Verification Body ✓ DC	ISO/IEC 14065
		Personnel Certification Body ✓ DC	ISO/IEC 17024
		Management System Certification Body	ISO/IEC 17021
		Laboratory	ISO/IEC 17025
		Inspection Body	ISO/IEC 17020
		Proficiency Test Provider	ISO/IEC 17043
		Reference Material Producer	ISO Guide 34
		Medical Laboratory	ISO 15189



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