

U.S. Celebration of World Accreditation Day

9 June 2014



Lane Hallenbeck
ANSI Vice President
Accreditation Services

Welcome to ANSI's

World Accreditation Day Webinar

June 9, 2014

PLEASE NOTE:

Everyone is MUTED; please send questions via "Questions" option

Slides will be made available after today's session

Q & A follows the presentations

Thanks for Your Participation

- All webinar participants are muted
- If you are participating via laptop, you may need to adjust the sound on your computer
- If you hear an echo, please hang up and dial in again
- If the webinar slides do not display, please check that you have installed the software correctly - you may need to reinstall



Webinar Protocol

- Questions

- Will be answered as time allows at the end of all presentations
- Use the “Q&A” option and type a brief question
- All other questions may be sent to kcalder@ansi.org

- If anyone has a problem during the webinar, please send an e-mail to kcalder@ansi.org





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



ANSI Collaboratives and Workshops

1994

Information Infrastructure Standards Panel



2003

Homeland Defense and Security Standardization Collaborative



2004

Nanotechnology Standards Panel



2005

Healthcare Information Technology Standards Panel



2006

ID Theft Prevention and ID Management Standards Panel



2007

Biofuels Standards Coordination Panel



2007

ANSI Network on Chemical Regulation



2009

Workshop Toward Product Standards for Sustainability



2009

ANSI-NIST Nuclear Energy Standards Coordination Collaborative



2010

The Financial Management of Cyber Risk



2011

ANSI Electric Vehicles Standards Panel



2012

ANSI Energy Efficiency Standards Coordination Collaborative



2013

ANSI Workshop: Smart and Sustainable Cities



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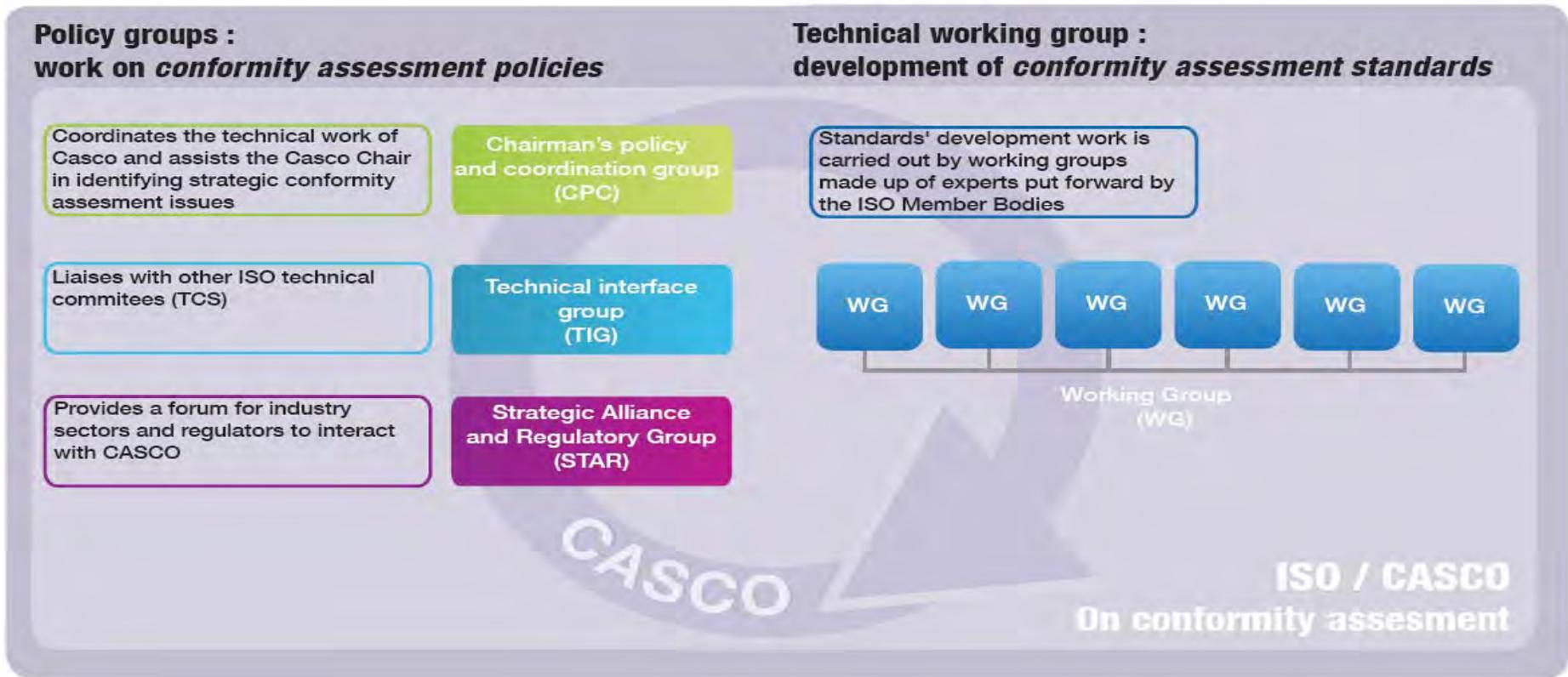


International Conformity Assessment Standards Development and Oversight

Lane Hallenbeck
Chair - ISO CASCO
(Conformity Assessment Committee)

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ISO CASCO Structure





Global Supply Chain

Confidence? Trust? Cost? Risk?

SDoC

3rd Party

Value of Accreditation



Accreditation bodies

Assess competence

Conformity assessment (CA) bodies

Audit/Test/Certify/Verify conformity

Object of CA (Product, Person, Organization, etc.)



U.S. Celebration of World Accreditation Day

9 June 2014



Keith Greenaway

Vice President
ANSI-ASQ National
Accreditation Board

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Oversight of Accreditation Bodies

The role of the International Accreditation Forum (IAF) and International Laboratory Accreditation Cooperation (ILAC)

ANSI-ANAB-AClass-FQS Accreditation Programs



	Standards	Standards Developer	ANSI <i>Essential Requirements</i>
		U.S. Technical Advisory Group	ANSI International Procedures
	Conformity Assessment	Certificate Issuer	ASTM E2659
		Product Certification Body	ISO/IEC 17065
		Greenhouse Gas Verification Body	ISO/IEC 14065
		Personnel Certification Body	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



Certified Once... Accepted Everywhere



Tested Once... Accepted Everywhere

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9 June 2014



Michael Violette

Director

American Certification Body

mikev@wll.com

A User's Experience:

The U.S. Testing and Certification Infrastructure and Importance of ISO Standards

Presentation Overview

- U.S. Testing Infrastructure
 - Types of Labs in the U.S.
 - Capacity
 - Management & ISO
 - Finance Issues



Presentation Overview

- U.S. Testing Infrastructure
 - Types of Labs in the U.S.
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Lab Infrastructure

- Public-Sector Labs (U.S. Government)
- Private-Sector Labs



Federal Activity in Laboratory Testing



- Commerce/NIST
- FDA
- FCC (TCB Council)
- DOL/OSHA
- DOD
- EPA
- CPSC
- DHS



Private Sector: Classification of Laboratories (American Council of Independent Labs—ACIL)



- Conformity Assessment
- Environmental Sciences Section
- Food Sciences Section
- Construction Materials, Engineering, and Testing

CAS Projects

- Smart Grid Interoperability
- China Conformity Assessment System
 - TBT
 - Policies and Practices
 - Position statement
- Proficiency Testing Program
- Third Party Certifier Activities
- DOJ Offender Tracking Program



Public-Sector Labs

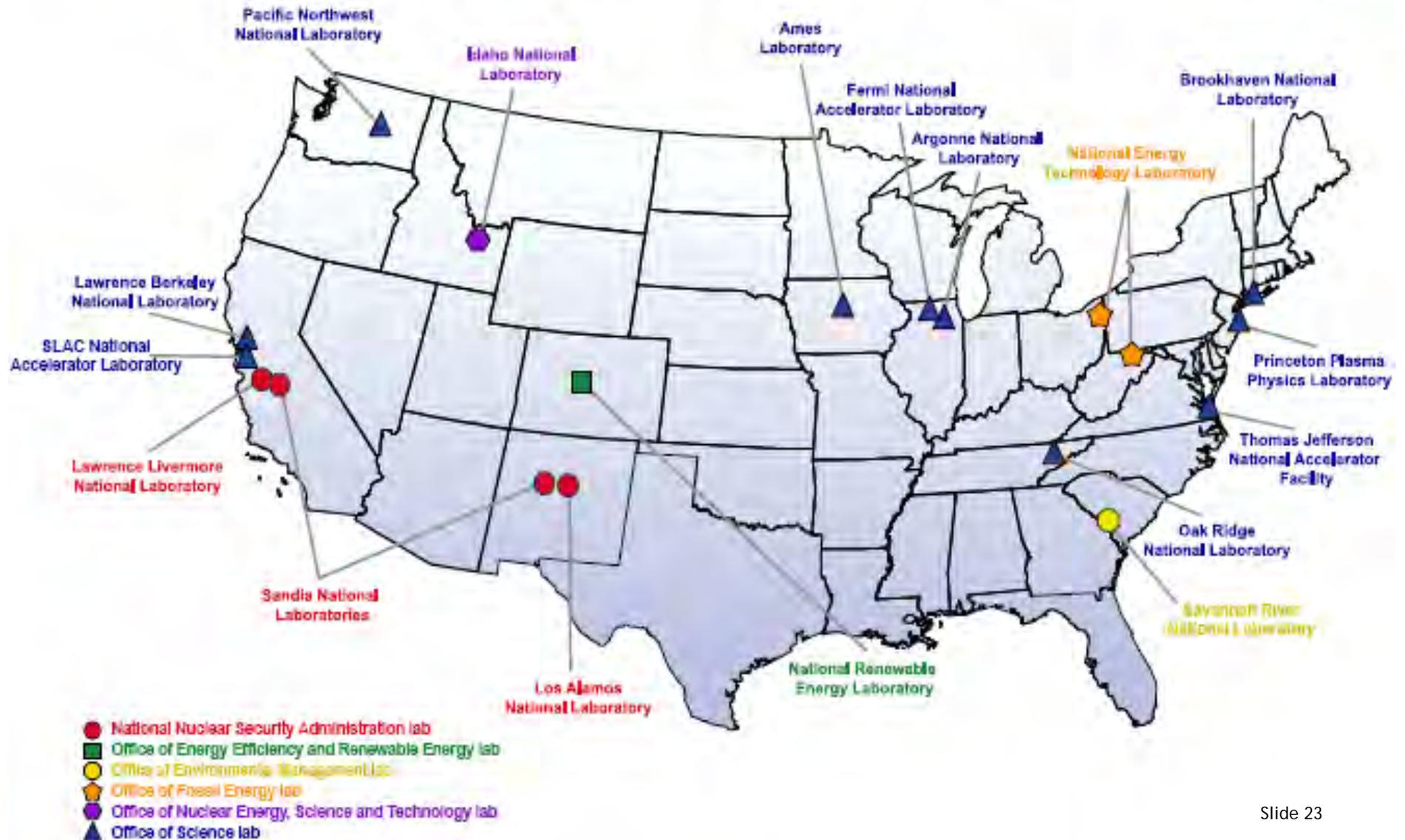
- NASA
National Institutes of Health
National Science Foundation
- National Institute of Standards and Technology
- Naval Research Laboratory
Biometric Consortium
- National Energy Research Scientific Computing (NERSC)
Army Research Lab
- Topographic Engineering Center (TEC)
Environmental Measurements Laboratory
- *National Renewable Energy Laboratory (NREL)
*Oak Ridge National Laboratory
*Lawrence Berkeley Laboratory
*Los Alamos National Laboratory
*Sandia National Laboratories
- *Brookhaven National Laboratory
*Lawrence Livermore National Laboratory
*Argonne National Laboratory
- *Fermi National Accelerator Laboratory
*Pacific Northwest National Laboratory



*Dept of Energy
\$4.9B in Research

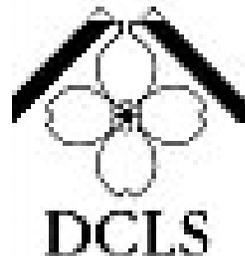


DEPARTMENT OF ENERGY NATIONAL LABORATORIES



Public-Sector Labs (non-research)

- Environmental Monitoring and Compliance Labs
 - EPA
 - Virginia
 - Division of Consolidated Laboratories Services
 - Analytical Sampling for local governments, federal agencies
 - 6 million tests per year
 - Accredits other laboratories



Private-Sector Labs

- Many (most) deal with compliance to regulatory requirements
- Protection of People and Services
- Health and Safety
 - Electrical and Mechanical
- Spectrum & Communications
- Environmental Protection
 - Air & Water

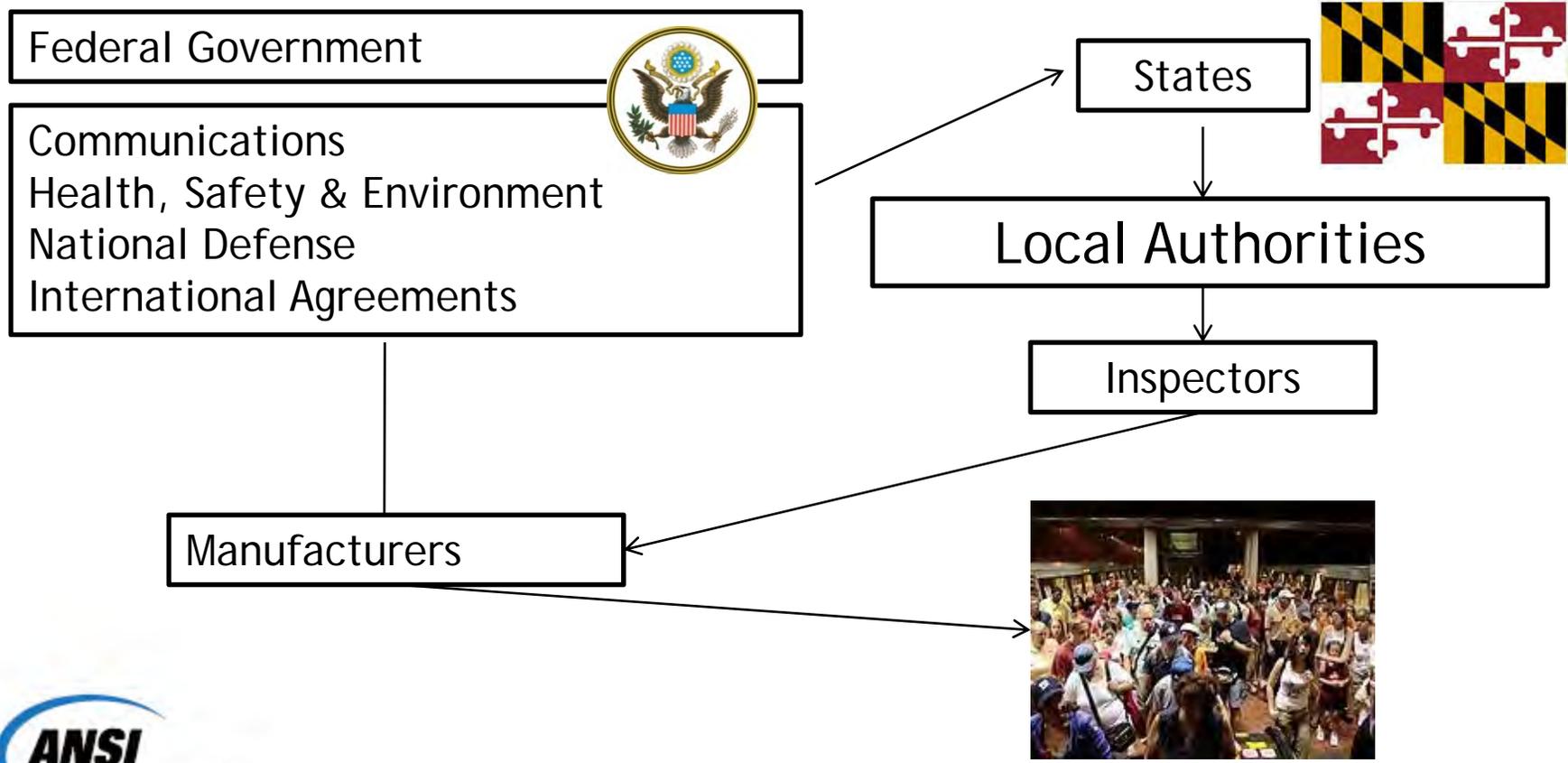


Laboratory Business



- Many private labs started as small businesses: engineers, chemists, scientists
- Develop niche capability
- Regional markets
- Many labs build capacity through acquisition
- Most labs generate \$120,000 per employee

Simplified Regulatory Structure in the U.S.



U.S. Regulatory Authorities

- U.S. Department of Agriculture (USDA)

- Domestic and Imported

- Meat
- Poultry
- Eggs
- Establish Ingredient Standards and Approve Recipes and Labels for Processed Meat and Poultry Products



U.S. Regulatory Authorities

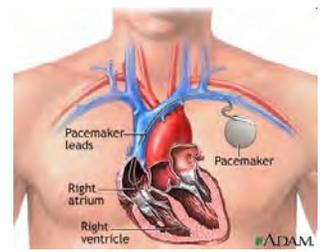
- Environmental Protection Agency
 - Water and Air Quality
 - Pesticide Approval and Registration
 - Establish Tolerances for Pesticides
 - FDA and USDA Enforces Pesticide Tolerances



U.S. Regulatory Authorities

■ Food and Drug Administration

- Foods
- Drugs
- Cosmetics
- Medical Devices
- Veterinary Drugs and Feeds
- Biological Products
- Radiation Devices



Food Safety Concerns in the news



Food Safety Modernization Act signed into Law: 4 January 2011



U.S. Regulatory Authorities



- Federal Communications Commission (FCC)
 - Control use and protection of Radio Frequency Services for Public



U.S. Regulatory Authorities



- Occupational Health & Safety Administration (OSHA)
 - Workplace Safety
 - NRTL Program



Code of Federal Regulations (50 titles from Food to Nuclear Power)

- <http://www.gpoaccess.gov/CFR/>

A screenshot of a Mozilla Firefox browser window displaying the GPO Access website. The browser's address bar shows the URL <http://www.gpoaccess.gov/CFR/>. The website header includes the GPO Access logo, navigation tabs for LEGISLATIVE, EXECUTIVE, and JUDICIAL, and a search bar. The main content area is titled "Code of Federal Regulations (CFR): Main Page" and includes a description of the CFR, a search box, and links to database features and related resources. The left sidebar contains a "DATABASE FEATURES" section with links like "CFR Main Page", "Browse and/or Search", "Retrieve by CFR Citation", "Search Tips", "How to Link to CFR Documents", and "About the CFR". Below that is a "RELATED RESOURCES" section with links to "e-CFR" and "Federal Register".

Presentation Overview

- U.S. Testing Infrastructure
 - Types of Labs in the U.S.
 - Capacity
 - Management & ISO
 - Finance Issues



Spending: Department of Energy



- 17 Government Labs providing basic research in physics, chemistry and material sciences
- Budget: \$4.9B (40% of total is R&D)
- National Spending: \$12B

Market Size: Product Testing (not foods)



- 600+ (mostly) private providing testing services for equipment manufacturers
- Estimated market size: \$1.8B



Market Size: Conformity Assessment Labs

- 114 Accredited Labs on FCC Website
 - 31 in California
 - 6 in Massachusetts & Minnesota
 - 5 in New York
 - 4 in Maryland, Texas, Washington State & Illinois
- Regionally distributed



Market Size: Environmental



- 1600 labs providing environmental analytical services
- Market size \$2.4B



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Processes



- Lab Management: Quality Systems
 - Accreditation requirements drive processes
- Quality Systems: ISO 17025, ISO 17065, and related

Accreditation

- ISO 17025 for Laboratory Operations
- ISO 17065 for Certification Bodies
- Accreditation by third-party accreditors



Accreditation Bodies: International Engagement



- International Laboratory Accreditation Program (ILAC)
 - Chartered in 1996 to develop international cooperation and mutual acceptance criteria
 - 66 Accreditation Bodies have signed the ILAC Mutual Recognition Agreement

Accreditation Process

■ Audit

- Management System
- Records
- Calibration
- Incoming sample control
- Reports
- Methods
- Complaints and Corrective Actions



Laboratory Management Structure

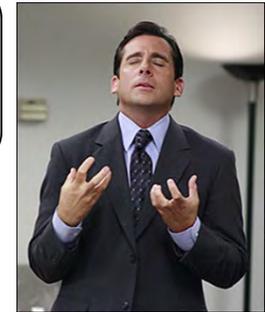
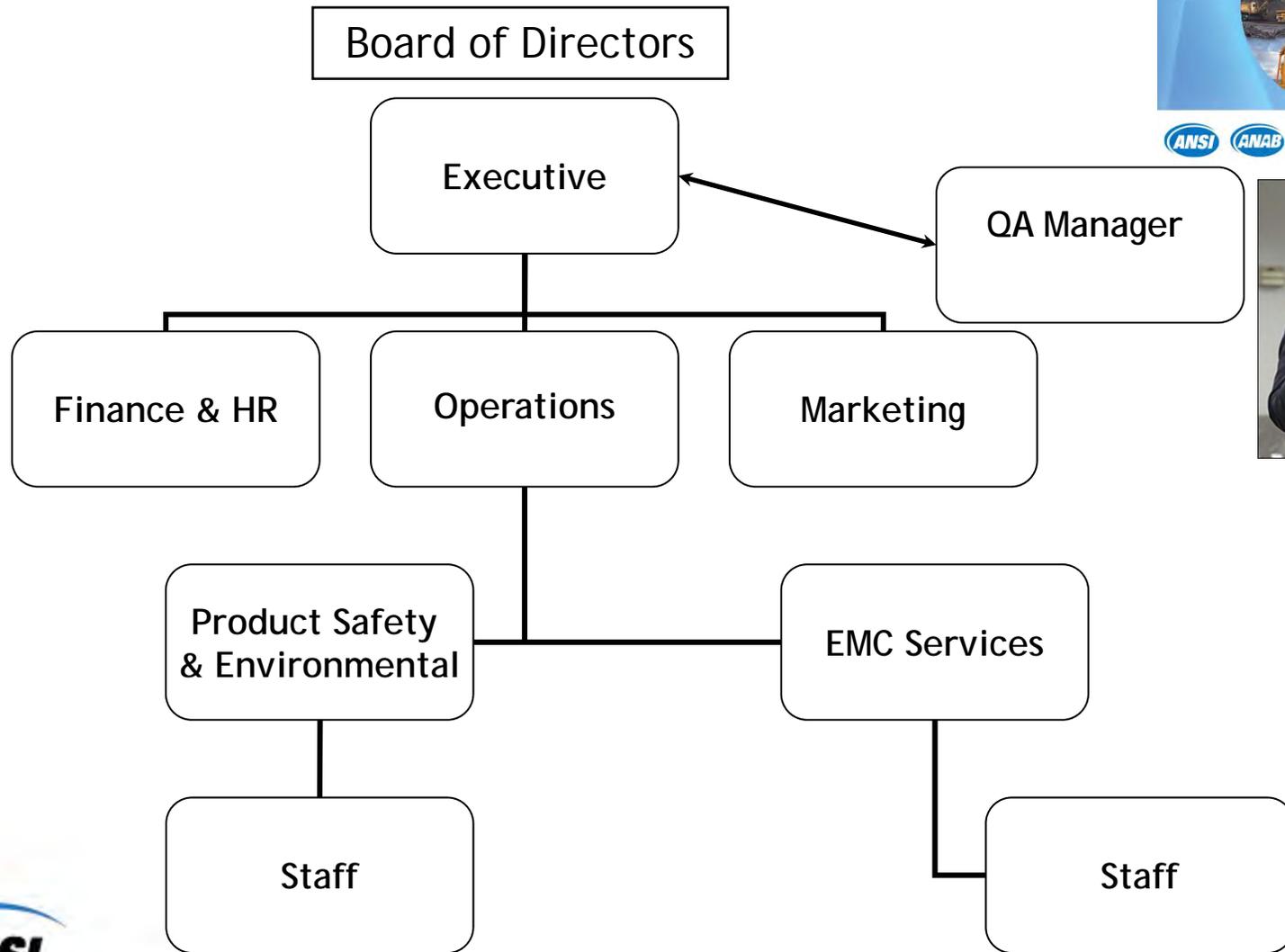
- Most management structures are dictated by Quality Systems

ISO/IEC/EN 17025

*General Requirements for the
Competence of Calibration
and Testing Laboratories*



Organizational Chart



ISO 17025 Elements

- Requirements
 - Legal Entity
 - Responsibility
 - Facilities
 - Conflicts of Interest
 - Staff Responsibility
 - Customer Confidentiality
 - Conflicting Activities



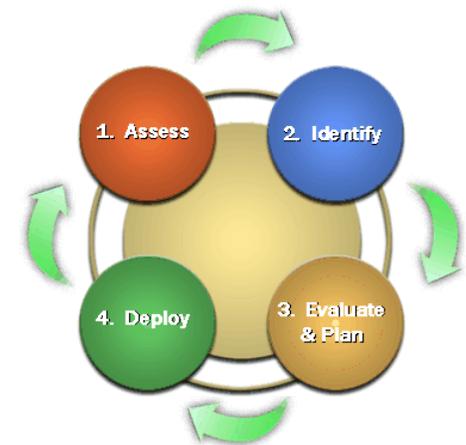
ISO 17025 Duties and Responsibilities

- Quality Manager
- Supervision is Clear
- Personnel Involvement is Encouraged
- Management System Communications
 - Transparent and frequent



Procedures for all processes

- Testing Procedures
- Internal Equipment Calibration Procedures
- Administrative Procedures
- Quality Procedures
- Engineering Procedures
- Documentation Procedures
- Business Procedures
- ...many more: Training, Complaints, Internal Audits



Records



- For most records (reports, customer correspondence, etc.) must keep on file for 10 years
- For work in the Nuclear Power Industry, must keep records for 30 years
- Data backup, physical and electronic security is required



Certificate and Scopes




CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board/AClass
500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

Washington Laboratories, Ltd.
7560 Lindbergh Drive
Gaithersburg, MD 20879

has been assessed by ACLASS
and meets the requirements of international standard

ISO/IEC 17025:2005

while demonstrating technical competence in the field(s) of

TESTING

Refer to the accompanying Scope(s) of Accreditation for information regarding the types of tests to which this accreditation applies.

AT-1448

Certificate Number

Keith Greenaway

AClass Approval

Certificate Valid: 04/01/2012-06/30/2014
Version No. 004 Issued: 01/31/2013

1. This organization maintains satellite organization(s) where no key activities are performed other than calibration and/or testing. Please refer to the accompanying scope of accreditation for more information.



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).



Washington Laboratories, Ltd.¹

7560 Lindbergh Drive
Gaithersburg, Maryland 20879
John Repella Phone: 301-216-1500

TESTING

Valid to: June 30, 2014

Certificate Number: AT-1448

I. Electrical

FIELD OF TEST	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED
Emissions Standards	Radiated and Conducted Emissions (40 Hz to 30 GHz)	FCC Part 15 B/C/D/E using ANSI C63.4 (2003) & ANSI C63.17; FCC Part 18 using FCC OST/MP-05 (1986); FCC Report and Order ET Docket 98-153 (FCC 02-48); Procedures IDB 20040420-001; Procedures in IDB 20021108-001 with FCC Method 47 CFR Part 15, Subpart F: DA 00-705 (March 30, 2000) and KDB Pub. No.558074, KDB Pub. No. 200433; DA 02-2138; CISPR 16-1-4 2007 +A1 2007; CISPR 22 (1997)+A1, (2000)+A2, (2002), CISPR 22 (2005); EN 55022 (1998)+A1, (2000)+A2, (2003), EN 55022 (2006),+A1 (2007); AS/NZS CISPR 22; CAN/CSA-CEI/IEC CISPR 22; CNS 13438(up to 6GHz); KN 22 with (RRA Announcement 2010-5, Dec 24, 2010); CISPR 11 (1997)+A1, (1999)+A2, (2002); CISPR 11: 2004-06 CISPR 11:2009/A1:2010 EN 55011 (1998)+A1, (1999)+A2, (2002); EN 55011:2009/A1:2010 AS/NZS CISPR 11; CNS 13803KN 11 with RRA Announcement 2010-5, (Dec 24, 2010); Technical Requirements for Electromagnetic Interference (RRA Public Notification 2011-18, Jul 5, 2011)

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Financial Measurements



- Private-sector labs are mix of publicly traded and privately held laboratories
 - Publicly-traded (stock corporation) labs must report details to the public (SEC requirements)
 - Private labs may have boards of directors and private investors to account

Profit And Loss Statement: The Key Indicator



- Revenue - Cost of Good Sold = Gross Profit
- Gross Profit - Overhead = Earnings*
 - “EBITDA”
- Earnings - Interest, Taxes & Deprec = NET PROFIT

Private Lab Profitability



	1 Month Ended <u>Jun. 30, 2009</u>	%
REVENUE	\$ 263,203.50	100.00
DIRECT COSTS	<u>122,817.60</u>	<u>46.66</u>
GROSS PROFIT	<u>140,385.90</u>	<u>53.34</u>
OPERATING EXPENSES		
General and Administrative	55,759.95	21.19
Marketing	12,427.91	4.72
TOTAL OPERATING EXPENSE	<u>68,187.86</u>	<u>25.91</u>
INCOME FROM OPERATIONS	<u>72,198.04</u>	<u>27.43</u>
OTHER INCOME AND EXPENSES		
Interest Income	219.10	0.08
Interest Expense	(2,872.17)	(1.09)
Other Income	1,000.00	0.38
Depreciation	<u>(14,183.40)</u>	<u>(5.39)</u>
TOTAL OTHER INCOME AND EXPENSES	<u>(15,836.47)</u>	<u>(6.02)</u>
NET INCOME	<u>\$ 56,361.57</u>	<u>21.41</u>

Labor

Gross Margins

Net

Publicly Traded Lab

NATIONAL TECHNICAL SYSTEMS, INC. AND SUBSIDIARIES
 Unaudited Consolidated Statements of Income
 for Nine Months Ended October 31, 2009 and 2008

	2009	2008
Net revenues	\$ 90,229,000	\$ 89,576,000
Cost of sales	65,357,000	64,829,000
Gross profit	24,872,000	24,747,000
Selling, general and administrative expense	19,546,000	18,318,000
Equity loss (income) from non-consolidated subsidiary	51,000	(7,000)
Operating income	5,275,000	6,436,000
Other income (expense):		
Interest expense, net	(1,020,000)	(1,671,000)
Other income, net	156,000	51,000
Total other expense, net	(864,000)	(1,620,000)
Income before income taxes and noncontrolling interests	4,411,000	4,816,000
Income taxes	1,796,000	2,004,000
Income before noncontrolling interests	2,615,000	2,812,000
Net income attributable to noncontrolling interests	(98,000)	(50,000)
Income from continuing operations	2,517,000	2,762,000
Income from discontinued operations, net of tax	-	271,000
Net income	\$ 2,517,000	\$ 3,033,000
Basic earnings per common share		
Income from continuing operations	\$ 0.27	\$ 0.30
Income from discontinued operations	-	0.03
Net income	\$ 0.27	\$ 0.33
Diluted earnings per common share		
Income from continuing operations	\$ 0.26	\$ 0.29
Income from discontinued operations	-	0.03
Net income	\$ 0.26	\$ 0.32
Weighted average common shares outstanding	9,307,000	9,086,000
Dilutive effect of stock options and nonvested shares	387,000	480,000
Weighted average common shares outstanding, assuming dilution	9,694,000	9,566,000
Cash dividends per common share	\$ 0.06	\$ 0.02



Critical Financial Factors

- Labor is biggest cost (~50%)
 - Engineers average salary \$75K
- Health insurance is second-biggest
- Equipment, Repair & Calibration Marketing
- Rent
- Debt service
- Cost of Quality System



WL: ~50 Expense Categories

Impact of ISO Standards on Lab Operations



- Dictates our processes (ISO 17025/17065)
- Requires us to develop and maintain procedures
- Creates a self-reporting system
- Enhances our quality
- Allows us to compete in the marketplace

Summary



- Independent Labs are critical part of Testing Infrastructure
- Competitive environment
- Regionally-served market
- Accreditation and Quality Systems are a necessary part of operations

U.S. Celebration of World Accreditation Day

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William Hurst
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Research Branch

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FCC Conformity Assessment Programs

Reliance on
Accreditation

When Was It Started?

- 1934: Communications Act of 1934, as amended
 - created the Federal Communications Commission to regulate private-sector telecommunications in the public interest
- 1938: Company wanting to sell a wireless phonograph resulted in the adoption of Part 15
- 1985 - 2002: Spread Spectrum/ Frequency Hopping Spread Spectrum Devices
- 1989: Major review and revision of Part 15
- 1997: DoC for Digital Devices
- 1998: Streamline Conformity Assessment Requirements
 - EA procedures had continued to evolve with greater reliance on accreditation programs
- 2013: Initiated review of conformity assessment programs



General Equipment Types

- License Exempt Devices (Parts 15 & 18)
 - Incidental Radiator (Parts 15.13 & 15.5(b))
 - DC Motors & mechanical light switches
 - Unintentional Radiator (Part 15 Subpart B)
 - Intentional Radiator (Part 15 Subparts C thru H)
 - Industrial, Scientific and Medical equipment (Part 18)
- Licensed Transmitters (Various Rule Parts)
- Telephone Terminal Equipment (Part 68)



Why Use the Private Sector?

- Speed at which technology is changing
- Technical expertise
- Increase the resources performing conformity assessment
- Shorter product life cycles
- Designed and approved in the same geographic location
- Reduce uncertainty and delay in obtaining certification



Streamline Equipment Authorization Program

- Streamline Conformity Assessment types
 - Eliminated the following:
 - Type Acceptance
 - Notification
 - Kept the following:
 - Certification
 - Declaration of Conformity
 - Verification

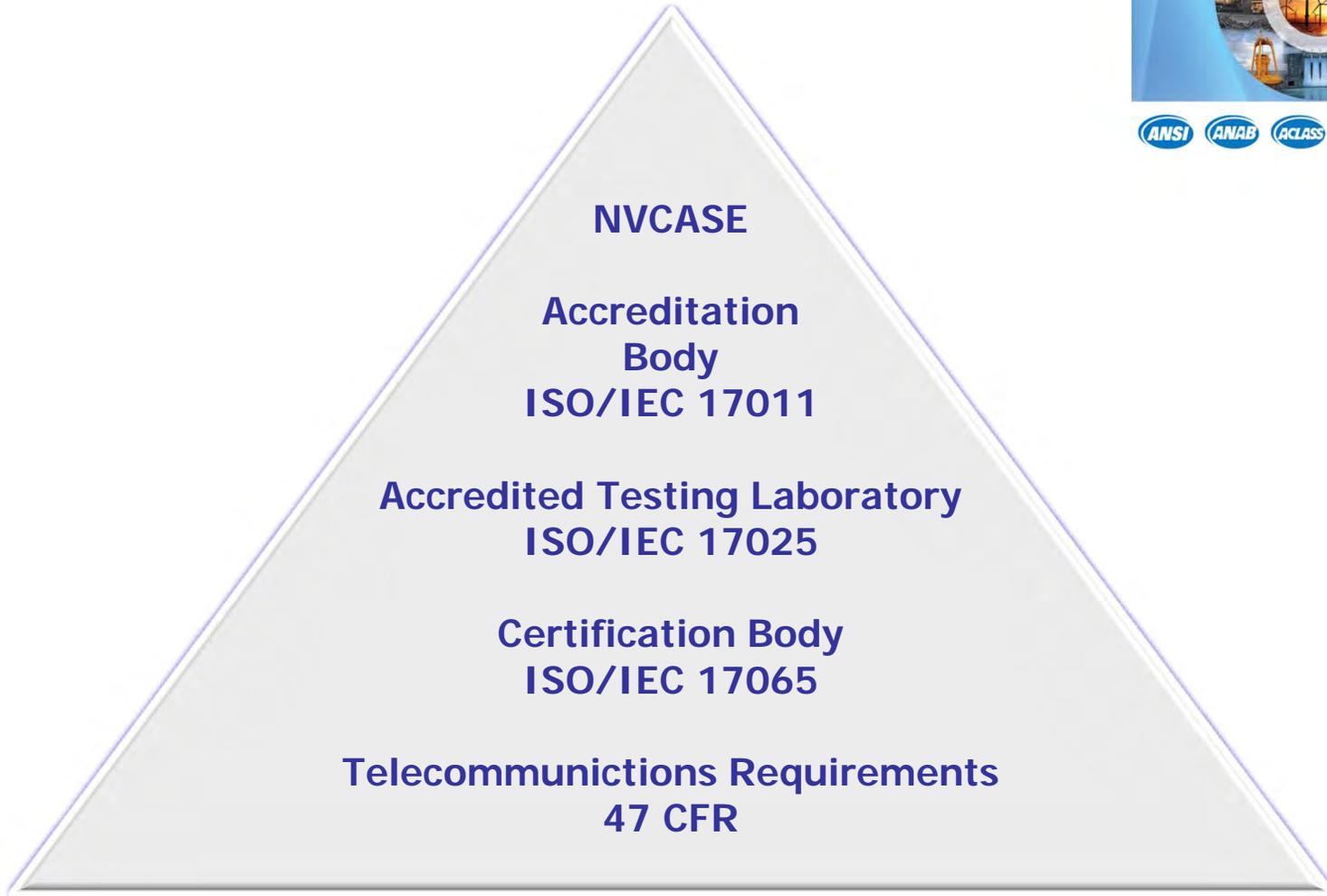


Conformity Assessment

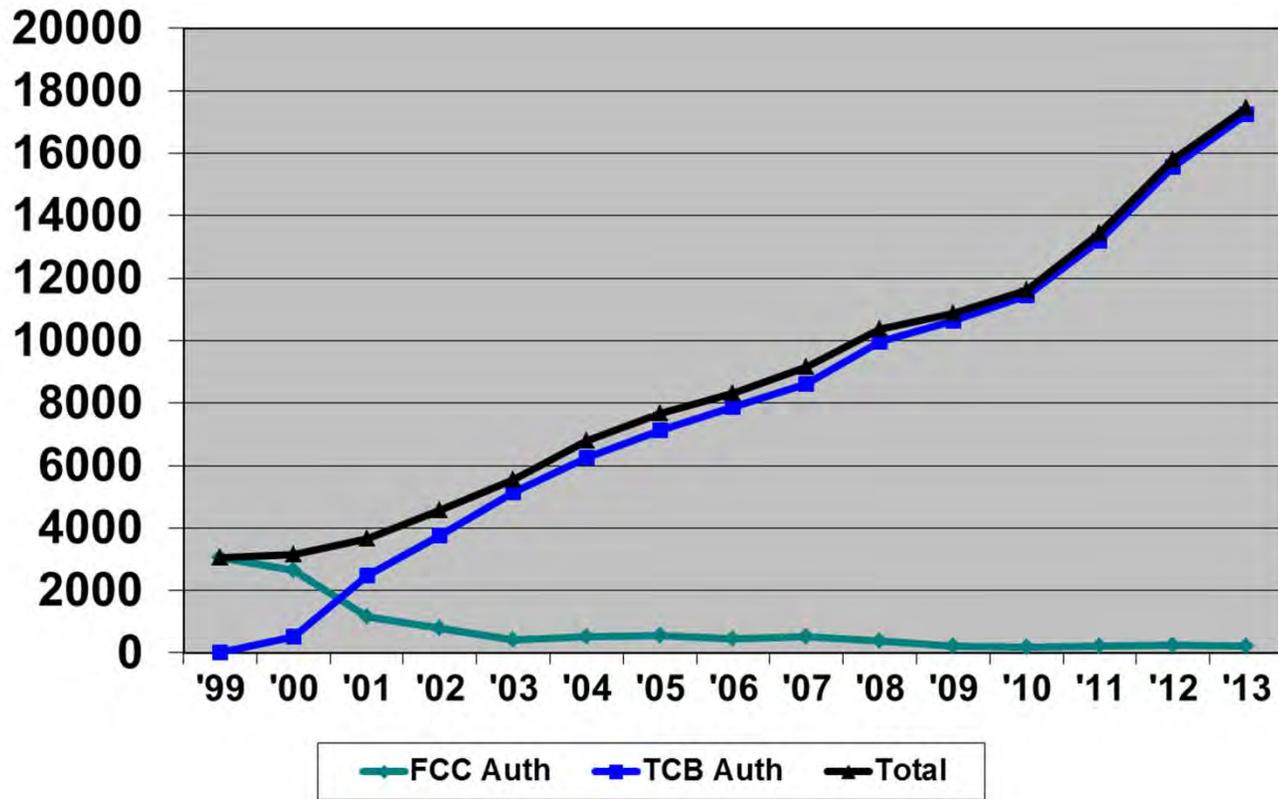
- Accreditation Bodies
 - Reliance on peer-to-peer agreements
 - ISO/IEC 17011
- Testing Laboratories
 - Listing of test laboratories
 - Accreditation of test laboratories
 - ISO/IEC 17025
- Certification Bodies
 - Telecommunication Certification Bodies (TCB)
 - ISO/IEC 17065



For TCBs Located in the U.S.

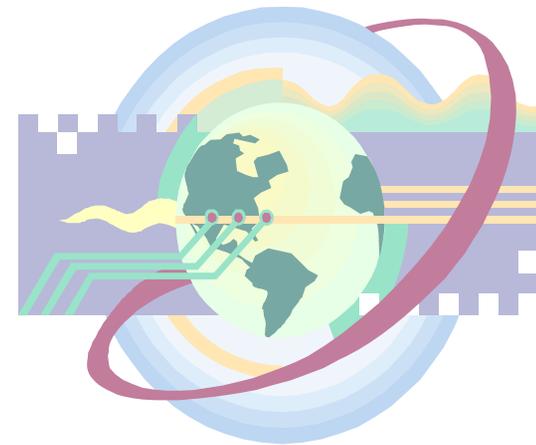


Certification Trends (1999 - 2013)



Mutual Recognition Agreements

- Purpose of MRA -- To facilitate trade by allowing Conformity Assessment Bodies (CAB) in one economy to test (Phase I) and/or certify (Phase II) products to the Technical Regulations of another economy.
- Participation in a MRA is voluntary -- however, if a economy agrees to participate in either Phase I and/or Phase II certain rights and obligations in accordance with the terms of the MRA apply.



Mutual Recognition Agreements



- FCC Participates in Six MRAs
 - U.S.-EU and EEA EFTA Mutual Recognition Agreement
 - Asia Pacific Economic Co-operation (APEC) Mutual Recognition Arrangement
 - Inter-American Telecommunication Commission (CITEL) Mutual Recognition Agreement
 - U.S.-Japan MRA
 - U.S.-Mexico MRA
 - U.S.-Israel MRA

Summary

- Rapid growth of devices using radio frequency spectrum
- Consumer demand for constant innovation and fast introduction of new capabilities have led to short product introduction times
- FCC approach of a balance between specific technical standards and allowing appropriately qualified Conformity Assessment Bodies has led to a successful model



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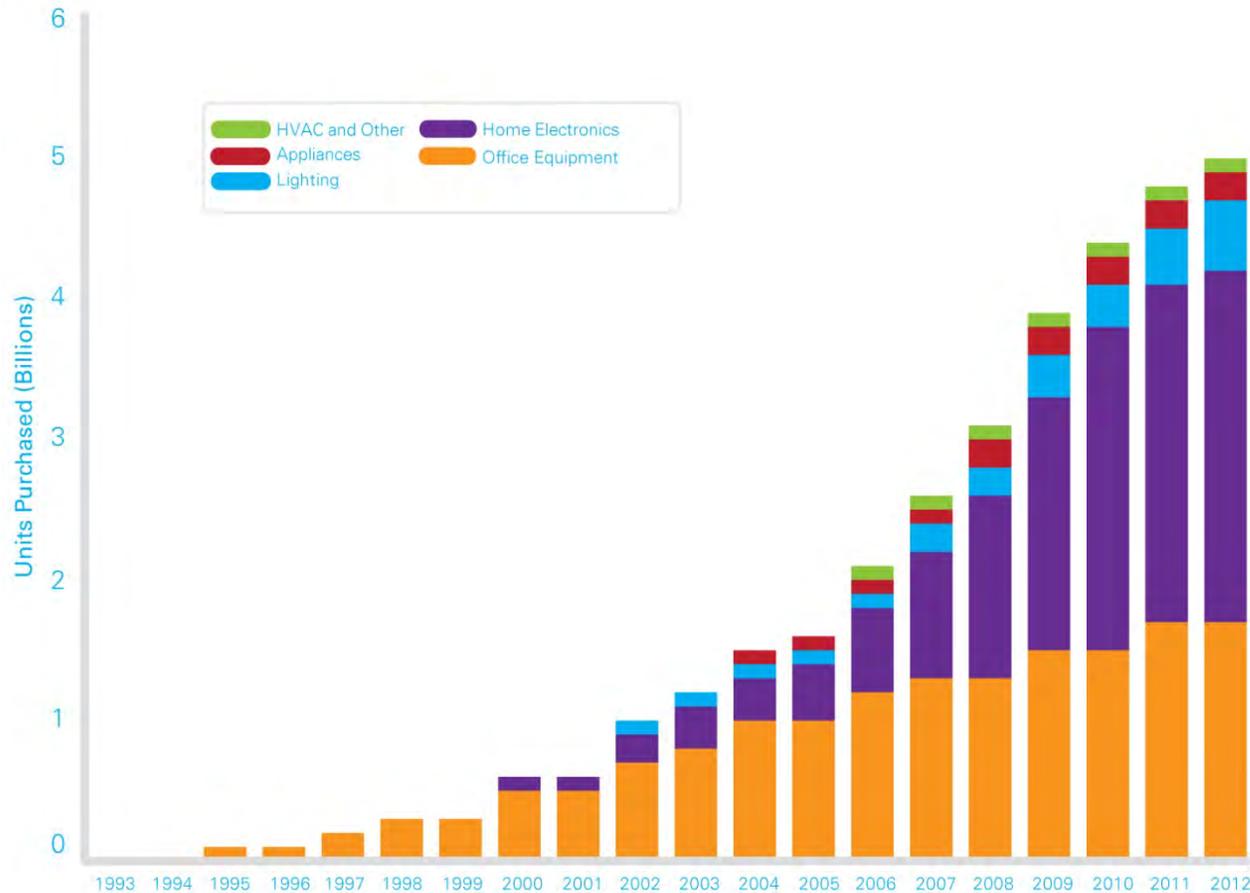


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ENERGY STAR Program

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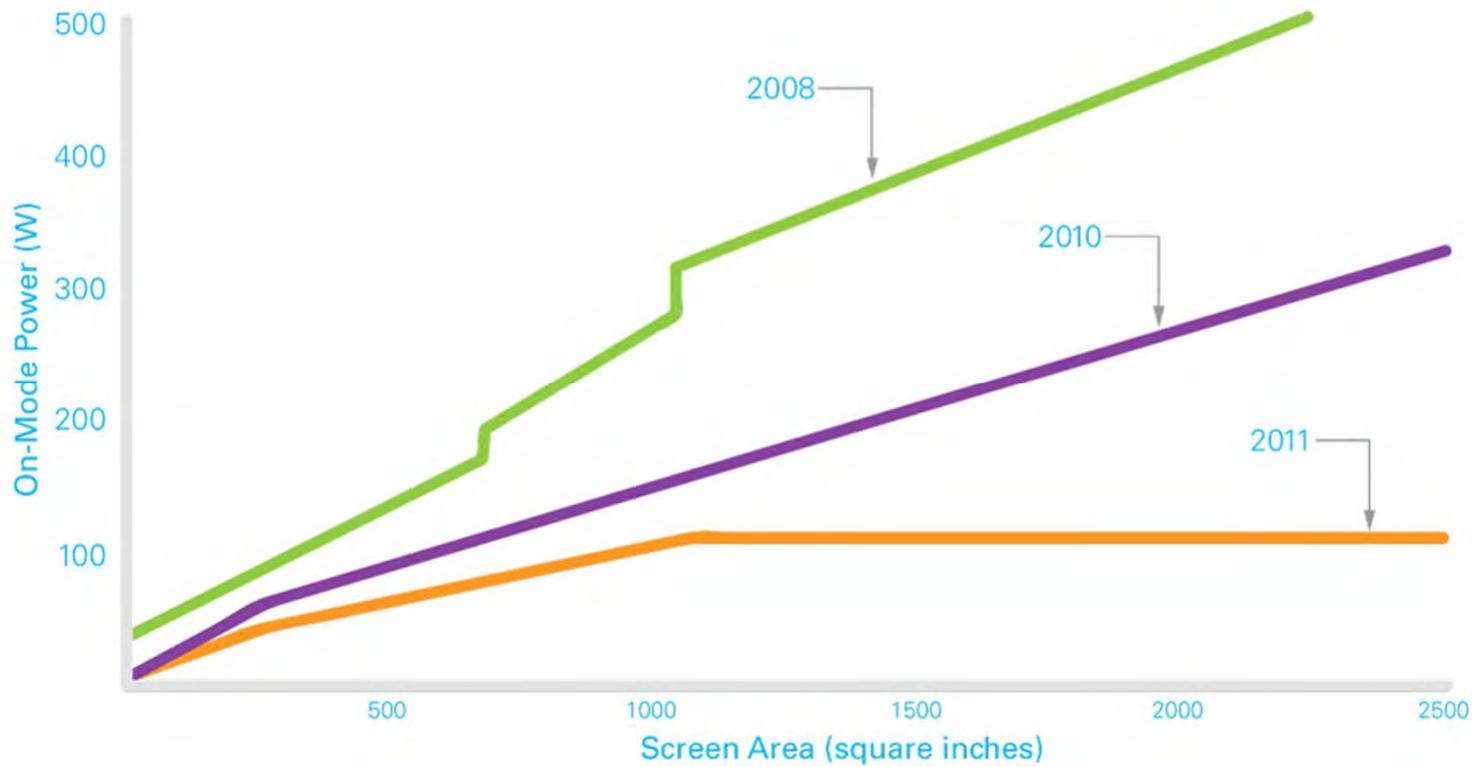
ENERGY STAR
Certified
Products

ENERGY STAR Products Sold (Cumulative)*

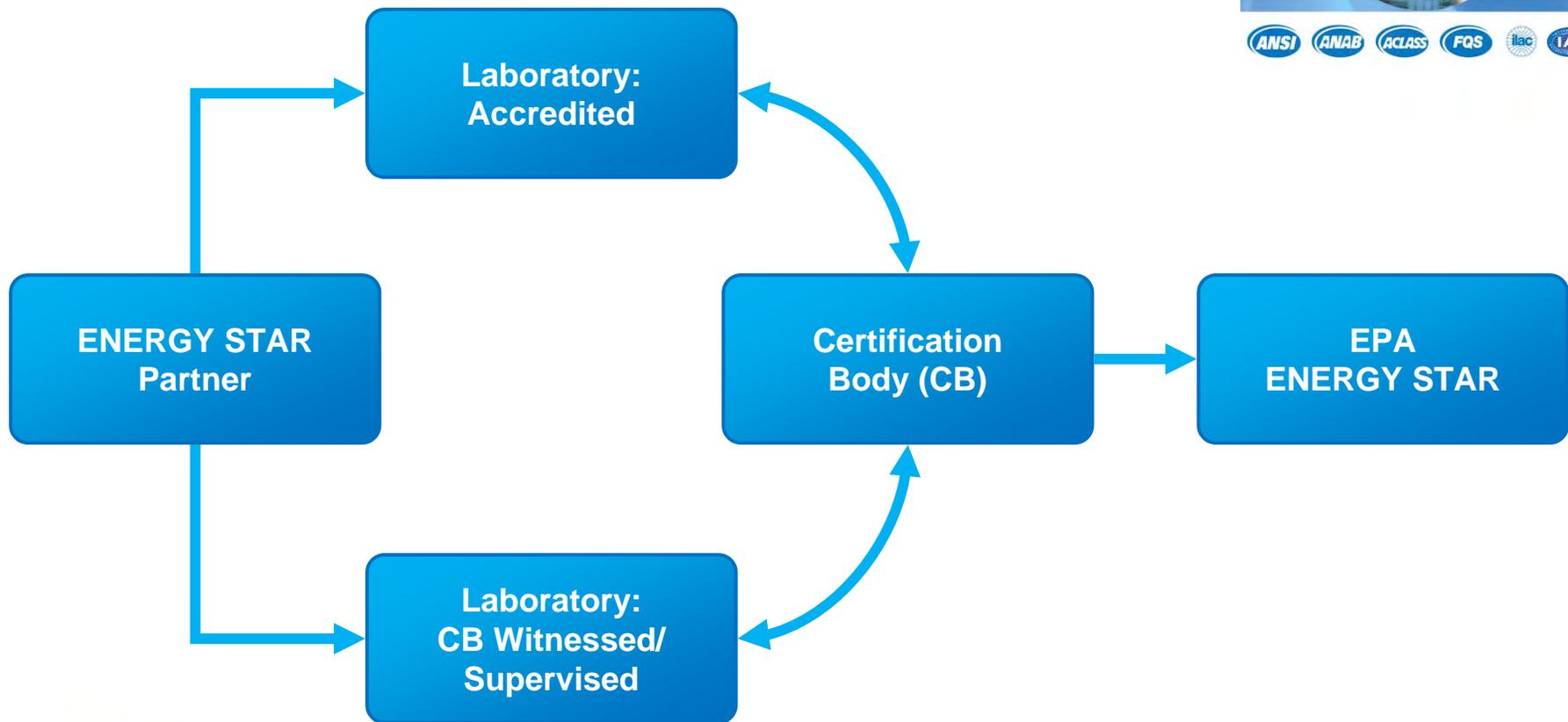


*The lighting data do not include CFL sales. Products sales may not appear in every year a category was included in the program due to scale.

The ENERGY STAR Difference: Televisions



Product Qualification Process



International Standards

INTERNATIONAL STANDARD

ISO/IEC 17011

First edition
2004-09-01

Corrected version
2005-02-15

Conformity assessment — General requirements for accreditation bodies accrediting conformity assessment bodies

INTERNATIONAL STANDARD

ISO/IEC 17025

Second edition
2005-05-15

General requirements for the competence of testing and calibration laboratories

ISO IEC

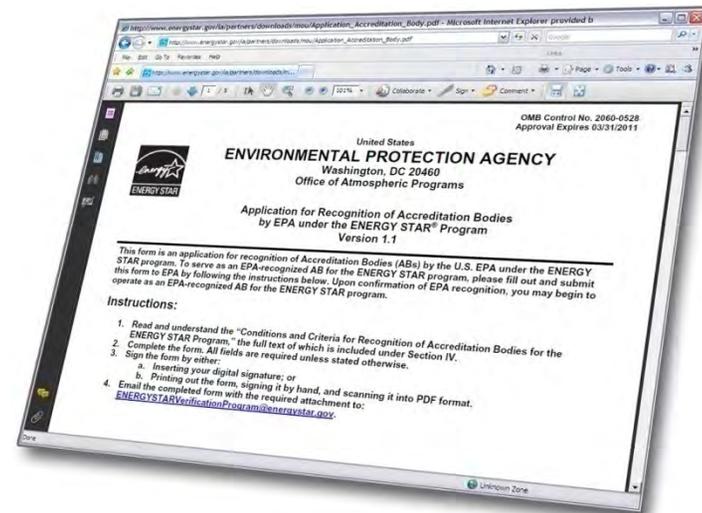
GUIDE 65

General requirements for bodies operating product certification systems



EPA Recognition

- EPA accepts and reviews applications for recognition on an ongoing basis
- All ABs, CBs, and Labs require EPA recognition



EPA-Recognized accreditation bodies, laboratories, and certification bodies (May 2014)



<i>Laboratories by Location</i>				
<i>Country</i>	<i>Accredited Laboratories</i>	<i>SMTLs</i>	<i>WMTLs</i>	<i>Totals</i>
Australia	1	0	0	1
Austria	0	1	0	1
Brazil	2	0	0	2
Canada	12	9	6	27
China	71	42	18	131
Denmark	0	0	1	1
Germany	8	3	2	13
Guatemala	1	0	1	2
Hong Kong	3	0	0	3
Hungary	1	0	0	1
India	1	0	0	1
Italy	3	1	2	6
Japan	20	13	5	38
Malaysia	1	2	0	3
Mexico	0	10	1	11
Netherlands	2	1	1	4
New Zealand	0	1	1	2
Singapore	2	0	0	2
South Korea	15	12	1	28
Spain	2	0	0	2
Sweden	1	1	0	2
Taiwan	39	2	15	56
Turkey	0	4	0	4
United Kingdom	3	2	0	5
United States	94	102	45	241
Subtotals	282	206	99	587

<i>Recognized Organizations</i>	
<i>Type</i>	<i>Total</i>
Accreditation Bodies	27
Certification Bodies	24
Laboratories (Accredited and W/SMTLs)	587
Accredited	282
SMTL	206
WMTL	99



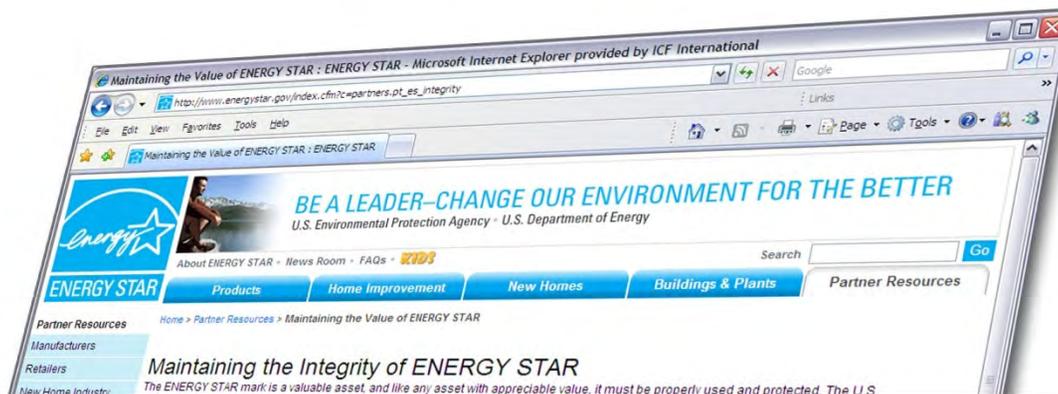
2013 Verification Testing

- 1109 Products Tested
 - 181 Appliances
 - 118 CFLs
 - 51 Lighting (luminaires, integral LED lamps)
 - 249 HVAC
 - 241 Consumer Electronics/ Information Technology
 - 68 Commercial food service
 - 201 Other (windows, roofs, vending machines, water coolers)



Evaluation

- EPA tracks all non-compliance issues, and posts lists of disqualified models online at www.energystar.gov/integrity



- Taking action to enforce the proper use of the ENERGY STAR mark. When logo use monitoring or verification testing, either through third-parties or the DOE, confirms an ENERGY STAR labeled product model does not perform as specified, EPA disqualifies the model from the program, removes it from the list of qualified products and requires the manufacture to take corrective actions.
 - [Disqualified \(non-CFLs\) products beginning 1/1/2010](#) (23KB)
 - Disqualified CFLs beginning 1/1/2010 — [Excel](#) (30KB) [PDF](#) (48KB)



U.S. Celebration of World Accreditation Day

9 June 2014



How Accreditation
Helps the Safe
Quality Food
Institute Maintain
its Integrity

John F. Schulz
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Global Food Safety Initiative

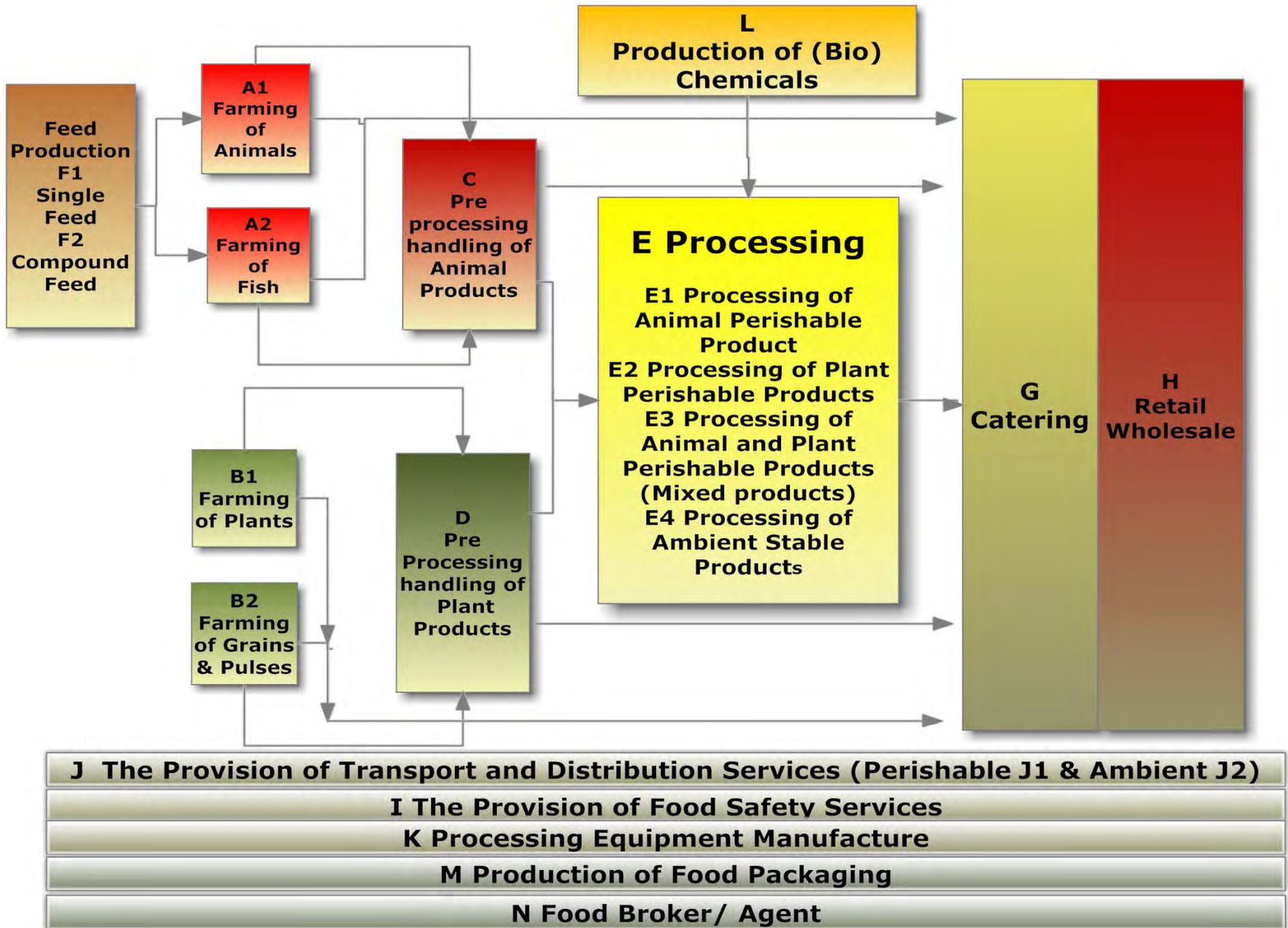
- GFSI launched at the CIES Annual Congress in 2000, following a directive from the food business CEOs
- Managed by The Consumer Goods Forum
- Benchmarks food safety schemes against the GFSI Guidance Document
- Determines whether a scheme is equivalent to the Guidance Document requirements
- Helps and encourages food safety stakeholders to share knowledge and strategy for food safety and to develop best food safety practice in a common global framework



Value of GFSI



- Walmart: University of Arkansas Study shows safer food for consumers
- Walmart: 31% reduction in product recalls
- Metro: 90% decrease of recalls in Germany
- Migros: reduction of audits by 50%
- Cargill: \$5m/year in reduced redundant audit costs, estimated \$15m/year savings once fully implemented
- Danone: € 4 million in reduced redundant audits costs the first year, further cost saving when fully implemented



The SQF Program



- Modularized to provide a farm to fork solution
- Designed around the GFSI Industry Scopes
- Includes 35 different food sector categories to meet the needs of all suppliers
- Auditors are credentialed in specific food sector categories
- 3-levels of certification with a unique approach to food quality

Who is SQF?



- SQF Program is owned by Food Marketing Institute (FMI) and operated by the SQF Institute, a division of FMI
- The program undergoes review by stakeholder input and oversight
 - GFSI Benchmarking Process
 - Technical Advisory Council (TAC) Review- made up of segments from all stakeholders in industry (retailers, foodservice, suppliers, service providers)
 - Public Comment and feedback

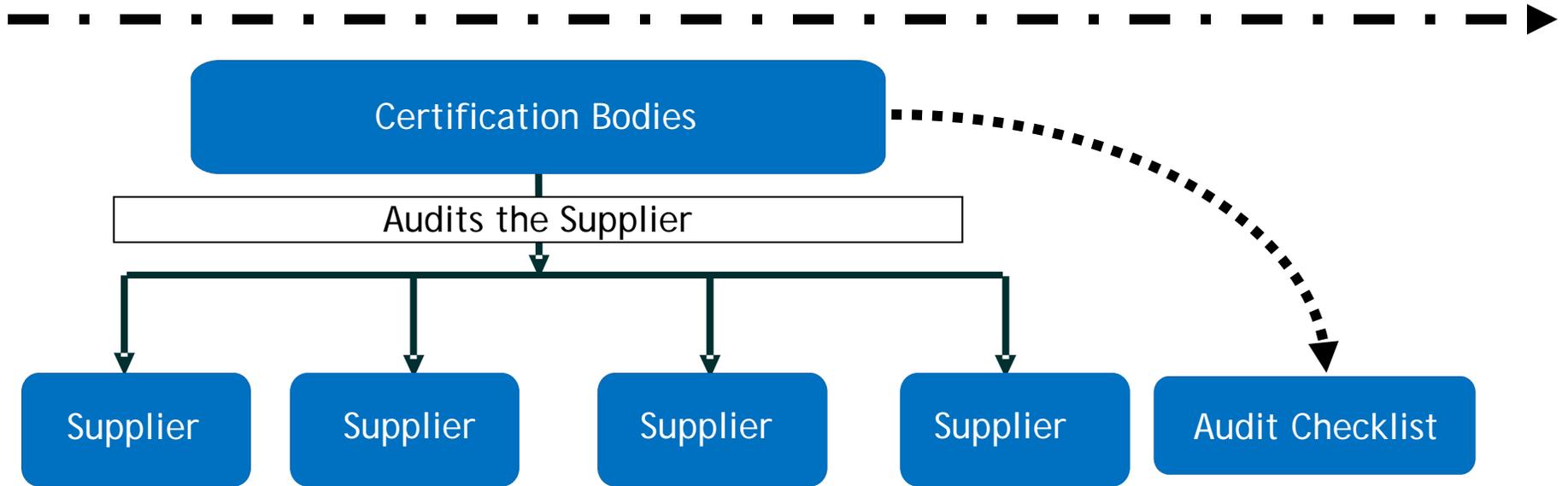


SQF is a Global Program

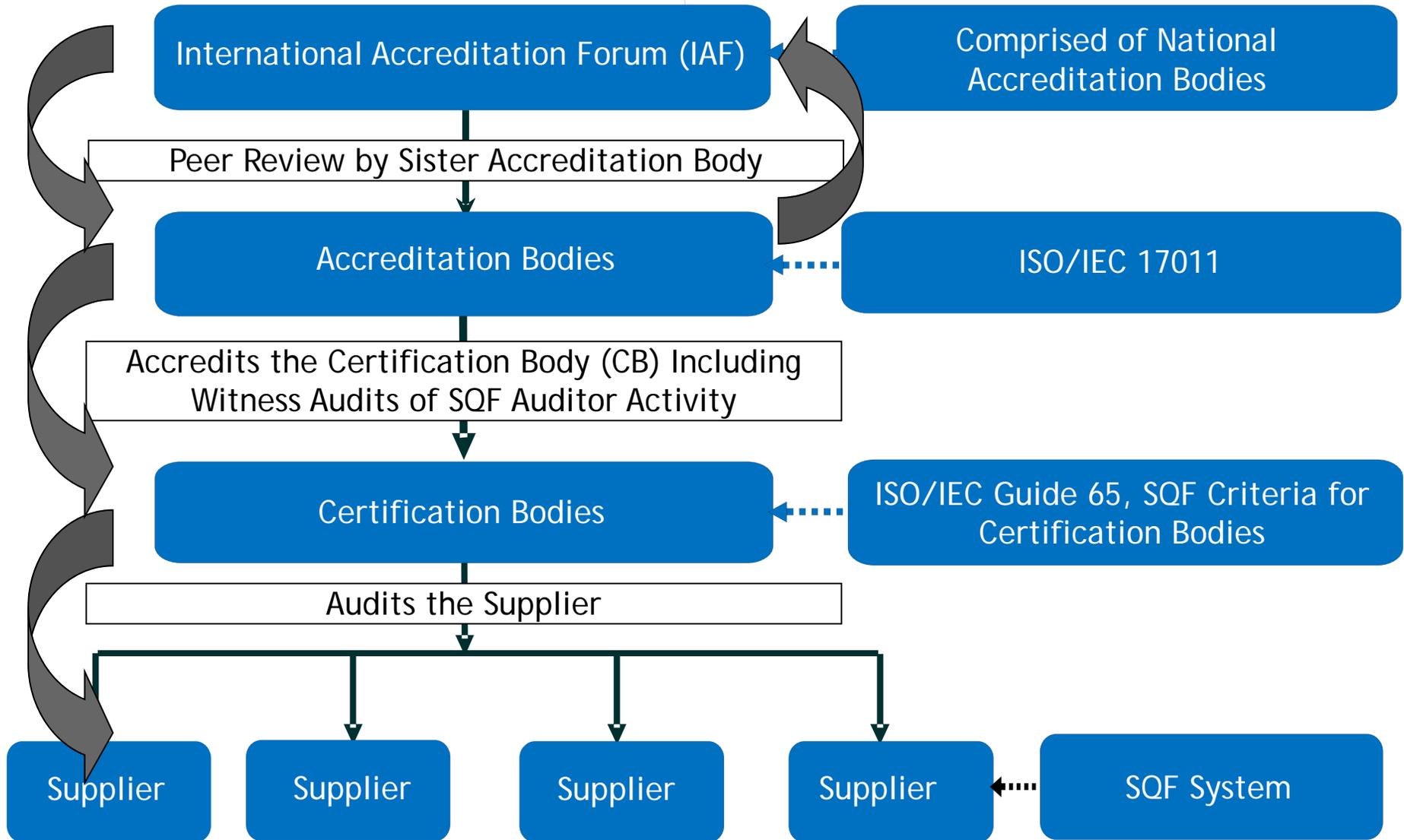
- Certificates in over 30 Countries
- Key countries include U.S., Australia, Canada, Japan and Mexico
- SQF representatives in Australia and Mexico
- Goal: Food Safety Along the Supply Chain



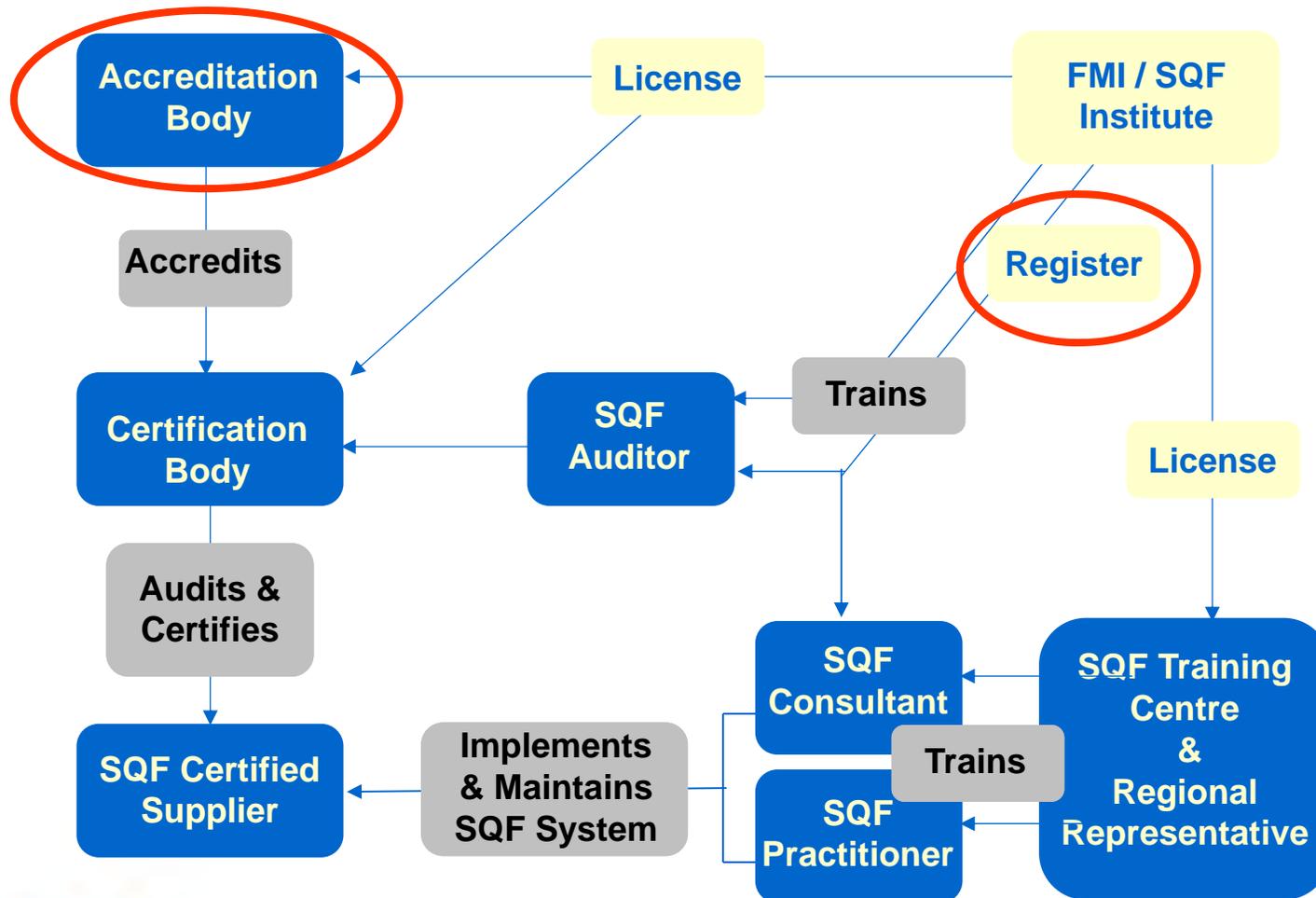
3rd Party Supplier Audit System



Accredited Certification



Managing the SQF Program



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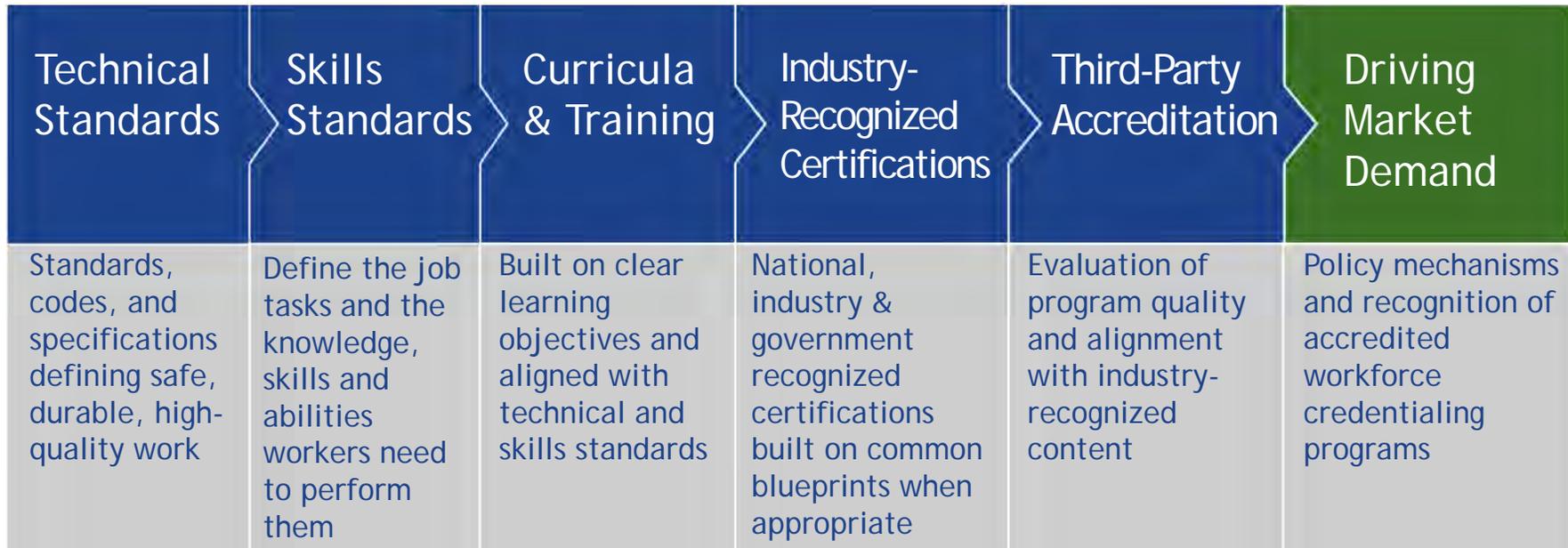
Benjamin Goldstein

U.S. Department of Energy
Project Manager
Better Buildings Workforce

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Workforce Conformity
Assessment:
Better Buildings
Workforce Guidelines

Department of Energy Better Buildings Workforce Framework



Assessing the Competency of the Commercial Buildings Energy Efficiency Workforce



CONFUSION▶ CONFIDENCE

Better Buildings Workforce Guidelines Job Titles

Job Titles	Draft Job Descriptions (will be further revised)
Building Energy Auditor	Assesses building systems and site conditions; analyzes and evaluates equipment and energy usage; and recommends strategies to optimize building resource utilization.
Building Commissioning Professional	Leads, plans, coordinates and manages a commissioning team to implement commissioning processes in new and existing buildings.
Energy Manager	Manages energy consumption in buildings or across facilities; performs continuous site evaluations and analyses; identifies opportunities to increase building efficiency, promote renewable resources, reduce costs and increase building or facility performance.
Building Operations Professional	Manages the maintenance and operation of building systems and installed equipment, and performs general building maintenance to optimize performance, maintain the building's operability and ensure the comfort and safety of building occupants.
Facility Manager (Government and FBPTA focus)	A federal, state, or local government official who manages, monitors and coordinates facility operations and supervises and communicates with staff to ensure efficient, sustainable operations and the satisfaction of the facility occupants.

A Government and Industry Partnership to Advance Commercial Buildings Workforce Quality



*National Institute of Building Sciences

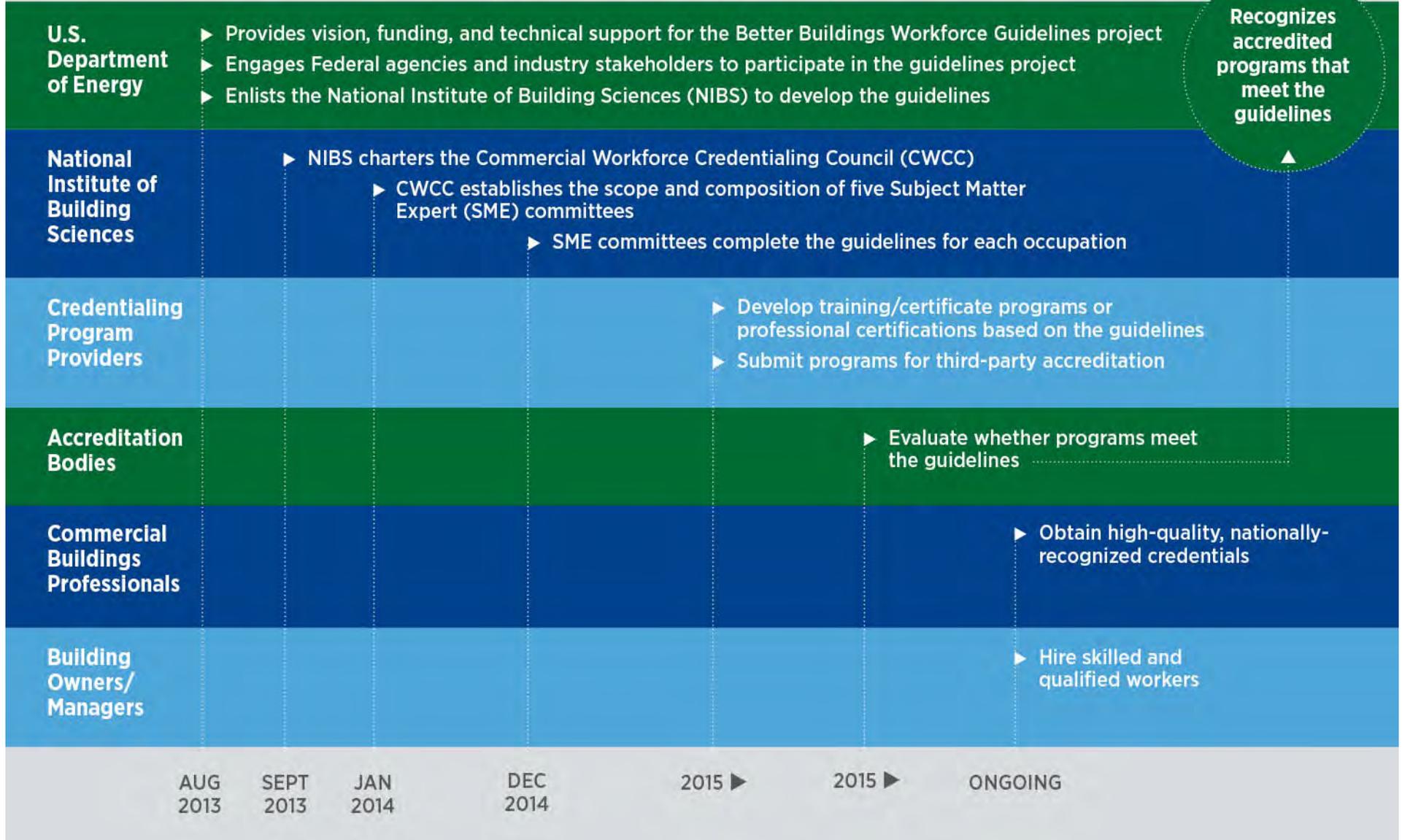
**Commercial Workforce Credentialing Council

*** Building Energy Auditor; Building Commissioning Professional; Energy Manager; Building Operations Professional; Facility Manager (Government and FBPTA focus)

Path to Better Buildings Workforce Guidelines

INITIAL JOB TITLES

Building Energy Auditor • Building Commissioning Professional
Energy Manager • Building Operations Professional • Facility Manager



QUESTIONS?



- Use the “Q&A” option and type a brief question
- All other questions may be sent to kcalder@ansi.org



Thanks for joining...

For More Information:

www.ansi.org/accreditation

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