

NIST

Standards Coordination Office



Overview of NIST and the Standards Coordination Office

May 9, 2013

Today's Discussion

- NIST Overview
- NIST and Standardization
- Standards Coordination Office Roles and Responsibilities
- Training for Government Agencies

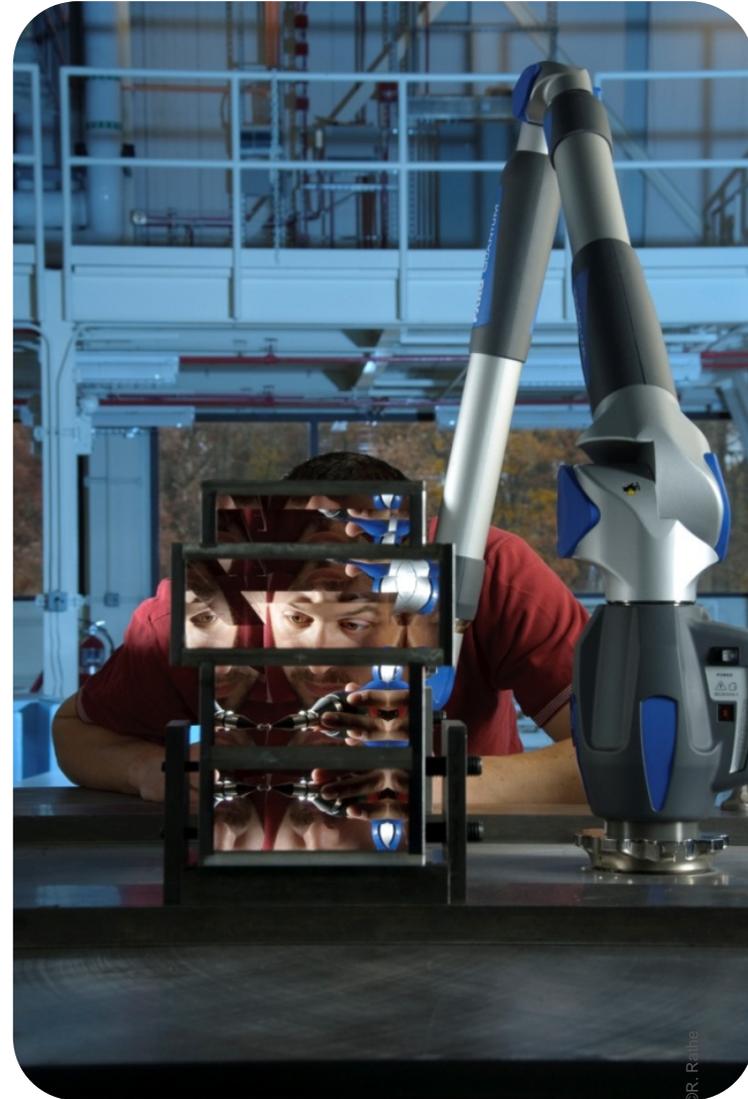
NIST

- Established by Congress in 1901 as the National Bureau of Standards
- Became the National Institute of Standards and Technology (NIST) in 1988
- NIST is a non-regulatory federal agency within the U.S. Department of Commerce

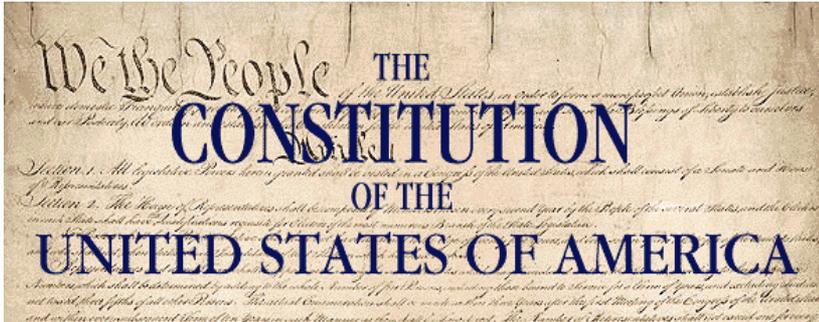


NIST: Basic Statistics and Facts

- Two locations: Gaithersburg, Maryland (headquarters) and Boulder, Colorado
- ~ 3,000 employees (scientists, engineers, technicians, and support and administrative personnel)
- ~ 2,800 associates and facilities users
- ~ 1,600 field staff in partner organizations (Manufacturing Extension Partnership)
- NIST's FY 2012 resources totaled \$750.8 million, with an estimated additional annual income of \$62.7 million in service fees, and \$128.9 million from other agencies.
- Four external collaborative institutes: basic physics, biotech, quantum, and marine science

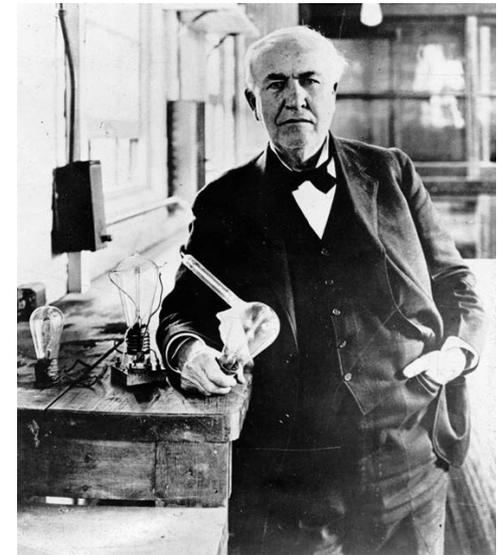


Standards in NIST's DNA



Article I, Section 8: The Congress shall have the power to...*fix the standard of weights and measures*

- Eight different “authoritative” values for the gallon
- Electrical industry needed standards
- American instruments sent abroad for calibration
- Consumer products and construction materials uneven in quality and unreliable



National Archives

NIST's Mission

To promote U.S. innovation and industrial competitiveness by advancing **measurement science, standards, and technology** in ways that enhance economic security and improve our quality of life.

NIST carries out its mission through several programs including the NIST Laboratories.

The NIST Laboratories conduct world-class research, often in close collaboration with industry, which advances the nation's technology infrastructure and helps U.S. companies continually improve products and services.



NIST Research Has a Broad Impact



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**Facilitates trade
and fair commerce**



D. Stork/shutterstock.com

**Improves public
safety and
security**



06photo

**Improves quality,
ensures uniformity**



B. Gardner

**Advances
manufacturing and
services**

NIST Priority Research Areas



Information Technology and Cybersecurity



Energy



Environment



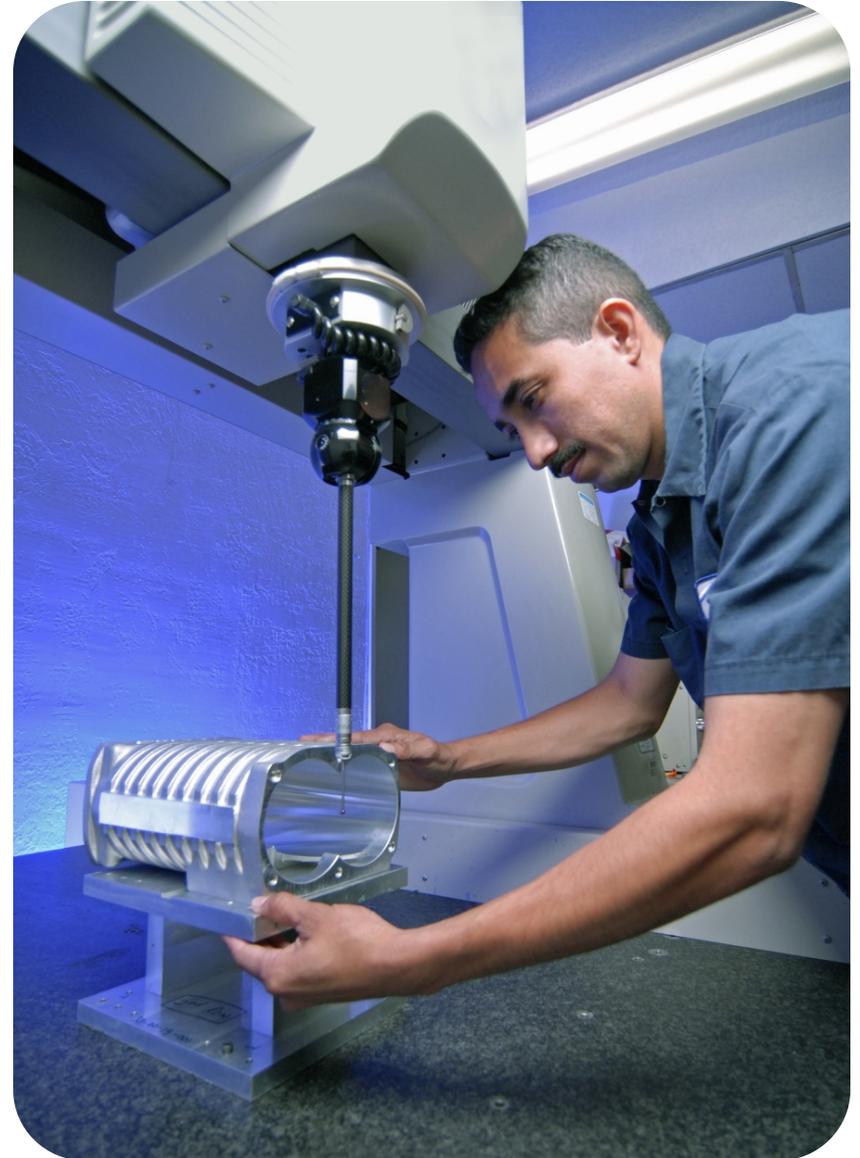
Healthcare



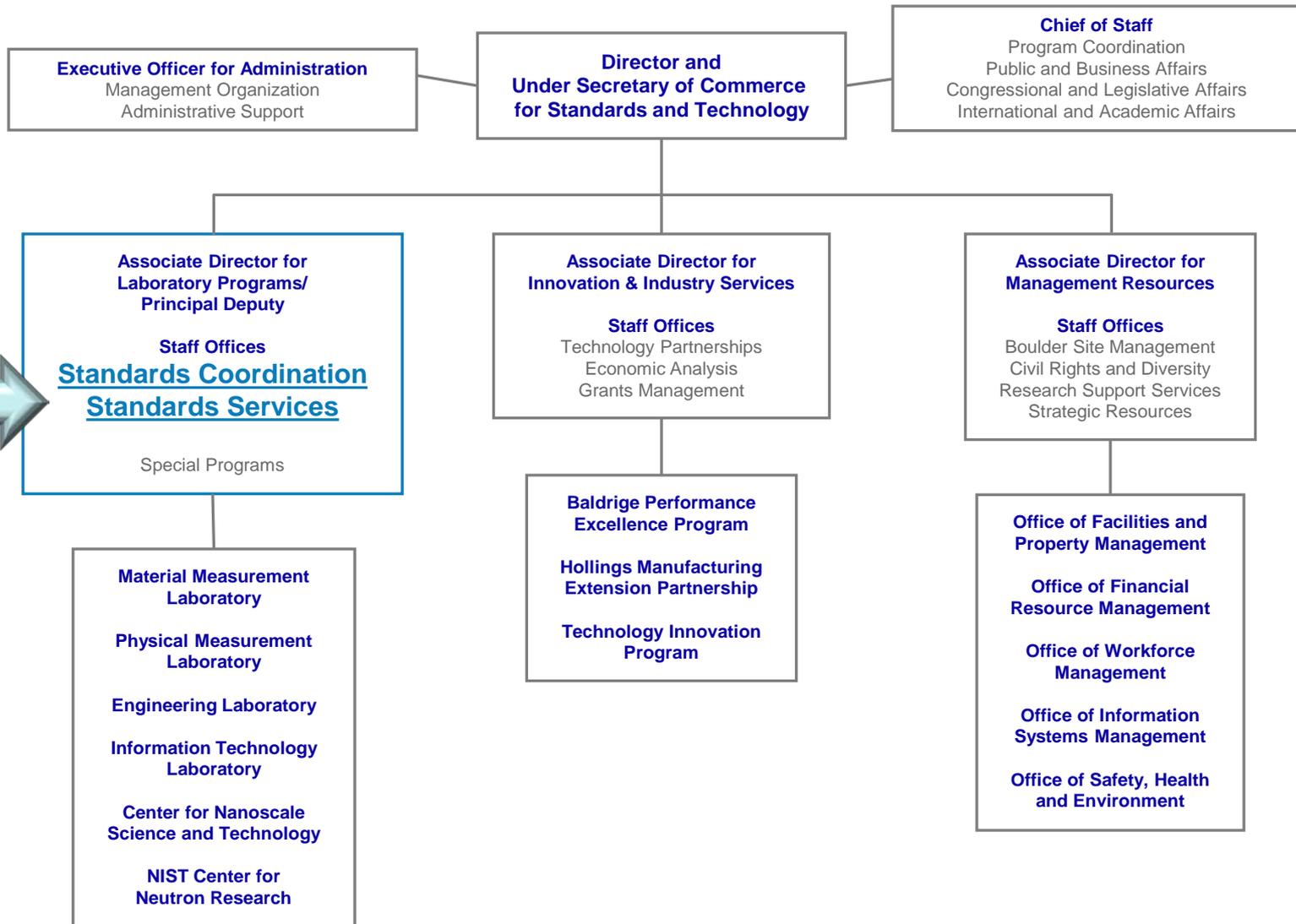
Manufacturing



Physical Infrastructure



NIST Organization



Overview of NIST in Documentary Standards

NIST provides the technical measurement infrastructure for standards in support of global trade and the commercial measurement system

Participates in and coordinates standardization and conformity assessment programs

Provides policy leadership for standards activities in coordination with the private sector and Federal, state and local government

Promotes use of private sector consensus standards

Standardization at NIST – Some Numbers

- Approx. 400 NIST staff participate in almost 120 standards organizations
- Almost 1390 committee memberships in 1000+ committee activities
- Standards organizations in which NIST staff participate include:
 - Treaty organizations
 - Private, voluntary standards organizations with national body participation
 - Professional organizations and trade associations that develop standards
 - Formal consensus standards developing organizations
 - Consortia and fora

Standards Coordination Office (SCO)

- SCO conducts standards-related programs and provides expertise and services to strengthen the US economy and improve the quality of life.
- SCO staff works closely with U.S. industry, standards developers, other government agencies, and leaders in the global standards community to build a standards infrastructure that supports innovation and creates opportunities for business to thrive.

Standards Coordination Office (con't)

- SCO actively monitors and participates in standards development and conformity assessment activities globally, consults with other federal agencies on standards policy issues, offers workshops and educational seminars for domestic and international audiences, and provide standards-related research and information services.
- Under the National Technology Transfer and Advancement Act, SCO also manages the assigned responsibility of coordinating federal, state, and local technical standards and conformity assessment activities, as well as coordinating with those activities in the private sector. Our goal is to equip US industry with the standards-related tools and information necessary to effectively compete in the global marketplace.

NIST Standards Coordination Office - Tools and Services

- National Center for Standards Information
- WTO Technical Barriers to Trade Inquiry Point
- Standards in Trade (SIT) workshops
- Mutual Recognition Agreement (MRAs) designation
- Standards and conformity assessment program development for federal agencies
- Standards and standardization curriculum development grants
- Laboratory accreditation
- NIST quality system oversight

Training for Government Agencies



Standards Services training and workshops available to government agencies at no cost

Tailored to meet the needs of the requesting agency

Standards, conformity assessment and related topics of interest

<http://gsi.nist.gov/global/index.cfm/L1-4/L2-14>

Thank You

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George Arnold

george.arnold@nist.gov

301-975-5627