

NIST

Standards Coordination Office



Overview of NIST and the Standards Coordination Office

June 14, 2012

Today's Discussion

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

NIST – Targeting Investments to Advance U.S. Innovation and Boost Economic Recovery

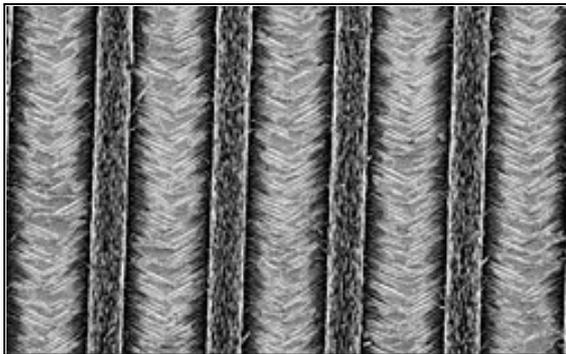
NIST Mission

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.

- Deep research expertise underpins technological innovation – e.g. lasers, memory, GPS, wireless
- Non-regulatory status enables important role as a convener that facilitates collaboration between industry and government

Addressing Challenges in Key Priority Areas

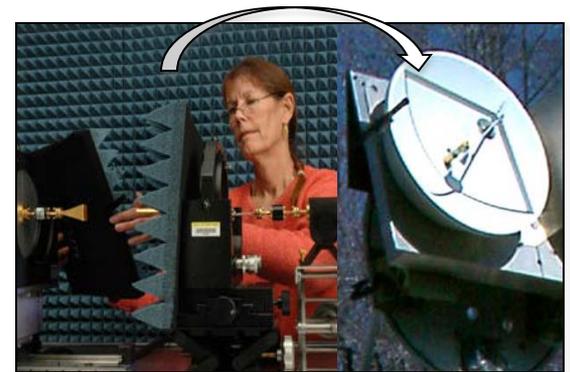
- Advanced Manufacturing
- Cybersecurity and Communications
- Forensic Science, Advanced Communications, and Disaster Resilience
- Strengthening Technology Transfer



Nanomanufacturing: New measurement tools for advanced materials manufacturing

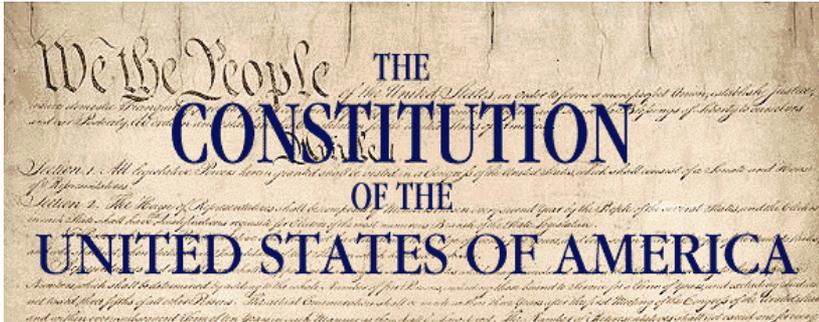


Cybersecurity: Improved response to cyber threats



Tech Transfer: Ensuring that industry receives all the benefits of NIST expertise

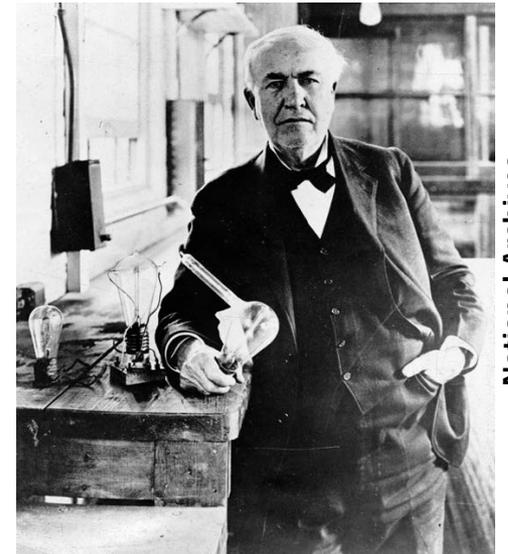
Standards in NIST's DNA



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

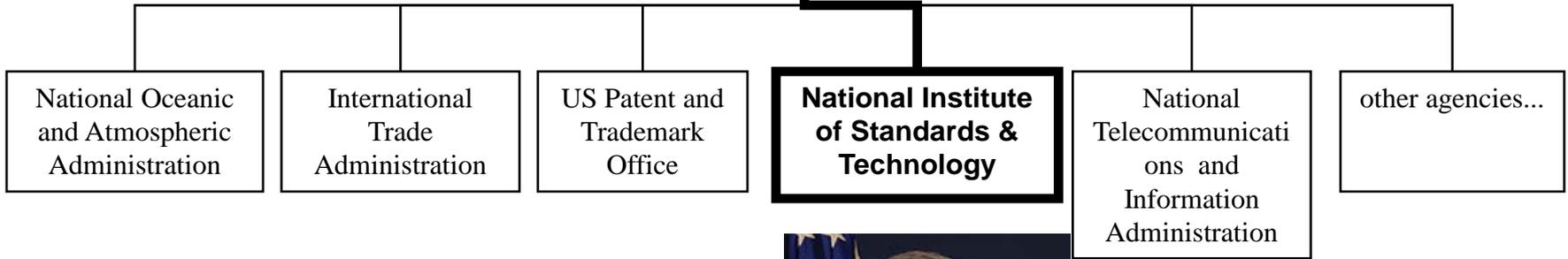
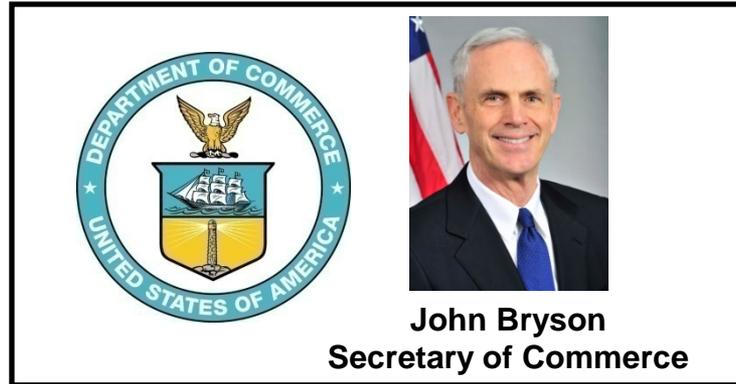
National Bureau of Standards established by Congress in 1901

- 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



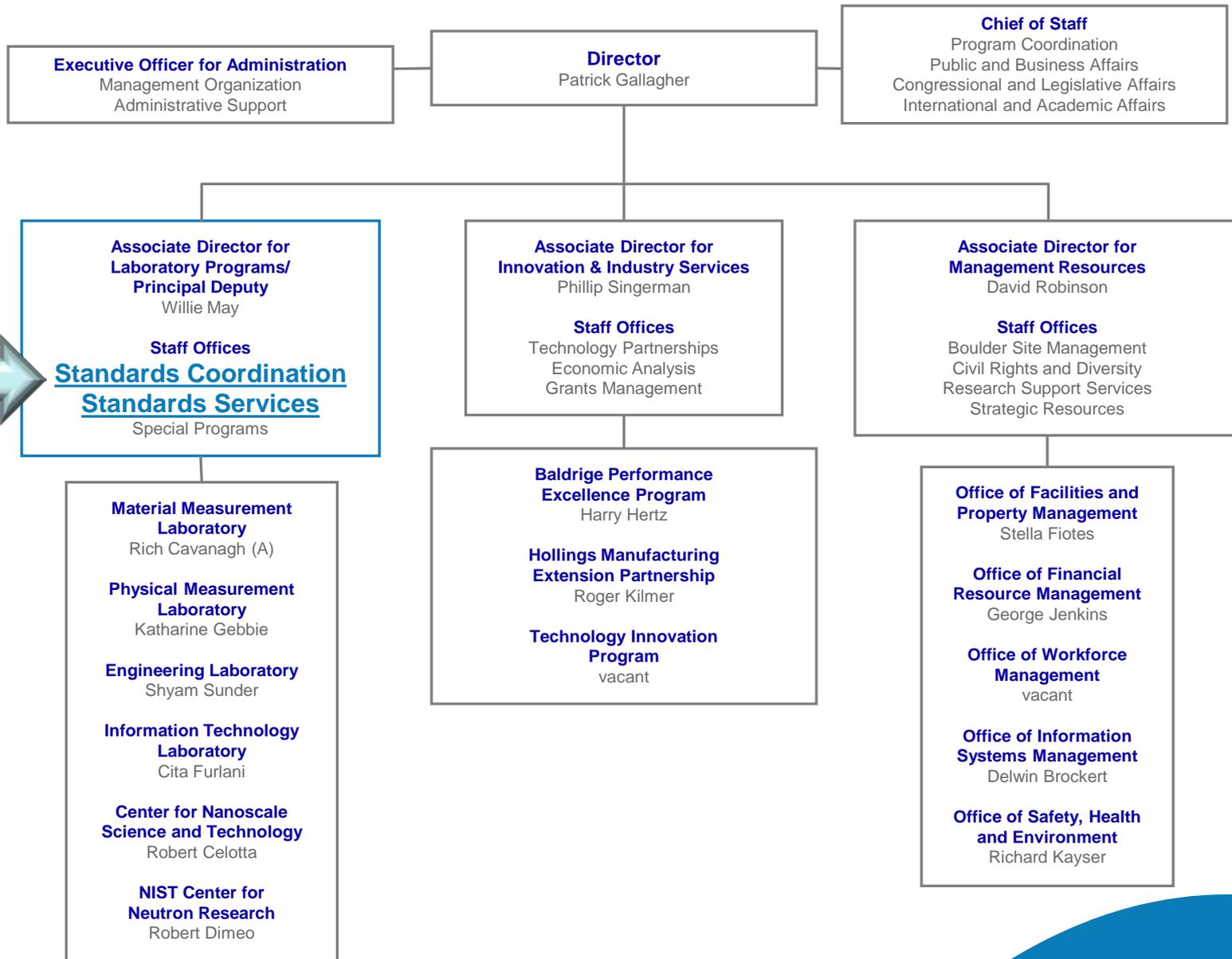
National Archives

Leadership at NIST/DOC



Patrick Gallagher
Under Secretary for Standards and Technology &
NIST Director

NIST Organization



NIST Roles in Standards and Standardization

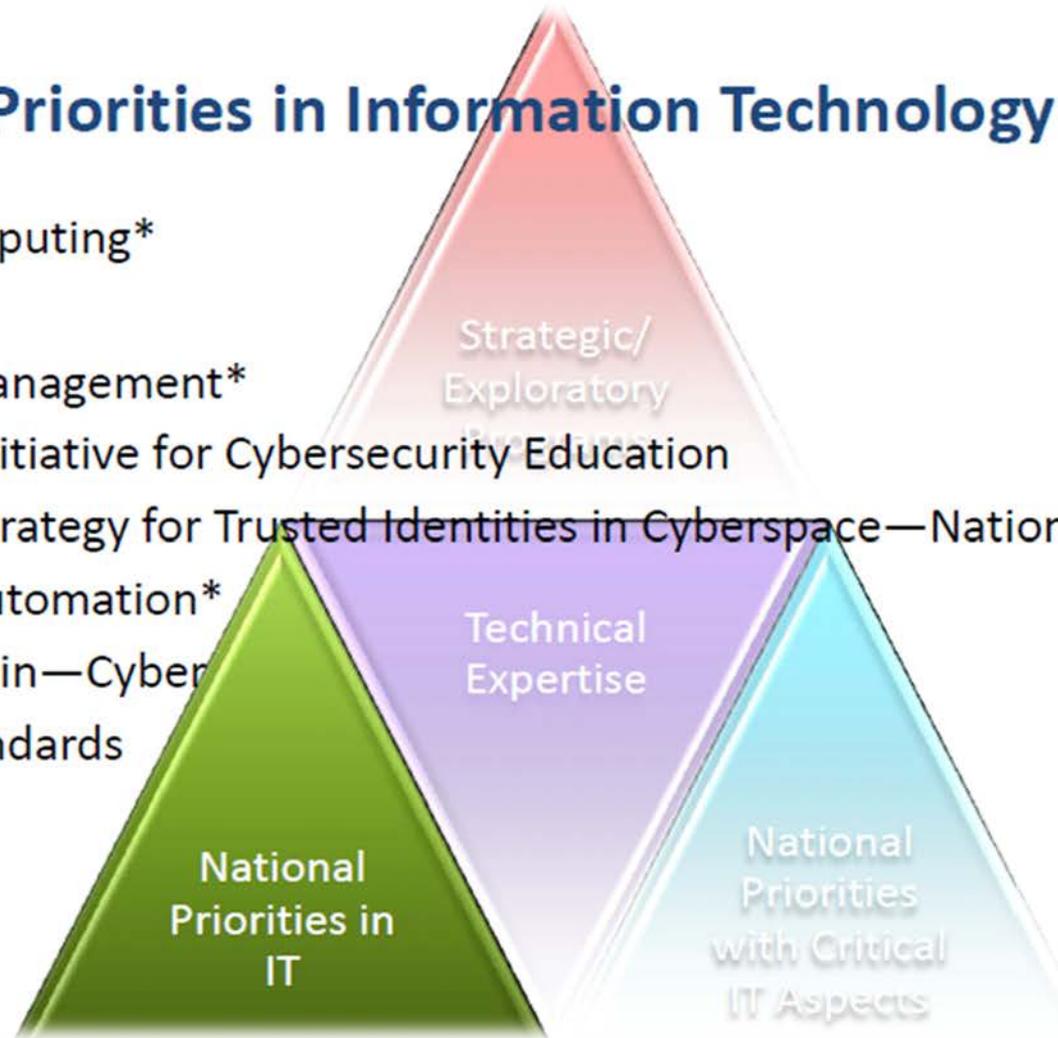
Unique mission driven roles:

- Technical standards **coordination** among federal agencies and between federal govt. and private sector
- Ensuring **technical quality** of standards – contribute NIST expertise and knowledge
- Meeting **standards needs** for the federal government – standards needs assessments through workshops, competitions, etc.; NIST Special Publications; Federal Information Processing Standards
- Addressing **national priorities** – e.g., Cybersecurity, Cloud Computing, Smart Grid, Health IT, etc.

ICT Standards Underpinning National Priorities

National Priorities in Information Technology

- Cloud Computing*
- Health IT
- Identity Management*
- National Initiative for Cybersecurity Education
- National Strategy for Trusted Identities in Cyberspace—National Program Office
- Security Automation*
- Supply Chain—Cyber
- Voting Standards



*Formerly part of an ITL Strategic Program

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 - Roles

- Set policy direction for NIST on standards engagement
 - Working with White House offices and other agencies
- Coordinate/facilitate cross-cutting standardization activities at NIST
 - Working with NIST laboratory directors and program managers
- Serve as primary POC on documentary standards policy for NIST with private sector
- Serve as primary POC on documentary standards policy for NIST with foreign governments

SCO Program Areas

- ❑ Federal Coordination Activities
 - ❑ Public Law 104-113
 - ❑ OMB Circular A-119
 - ❑ NIST Act – 15 USC 271-282a

- ❑ Standards & Conformity Assessment Design/Coordination
 - ❑ Public Law 104-113
 - ❑ 15 CFR part 286 (NVCASE)

- ❑ International Standards & Conformity Assessment Policy
 - ❑ Trade Agreements Act of 1979 as amended

Federal Coordination Activities

- Responsible for coordinating the use by Federal agencies of private sector standards, emphasizing where possible the use of standards developed by private, consensus organizations
- External mechanisms:
 - Interagency Committee on Standards Policy
 - NSTC Subcommittee on Standards
 - Standards.gov
- Internal mechanisms:
 - Standards committee participation database
 - NIST Laboratory standards contacts
 - Technology-focused working groups

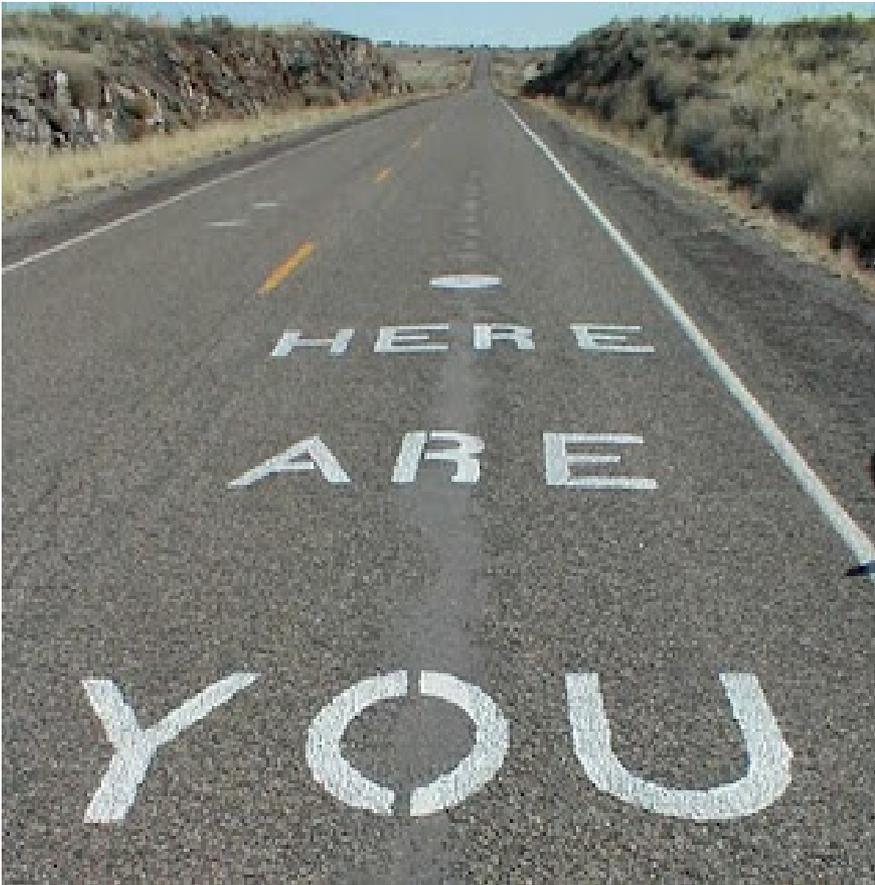
Standards and Conformity Assessment Design/Coordination

- Assist USG agencies in designing standards and conformity assessment policies and programs that meet their needs
- NTTAA/A-119 direction that NIST coordinate CA activities
 - “...coordinate Federal, State, and local technical standards activities and conformity assessment activities, with private sector technical standards activities and conformity assessment activities, with the goal of eliminating unnecessary duplication and complexity in the development and promulgation of conformity assessment requirements and measures”
- Customers include USG agencies carrying out regulatory, procurement and Federal assistance missions

International Standards and Conformity Assessment Policy

- Equip US industry with standards-related mechanisms, access and information needed to effectively compete in the global marketplace
- Support/facilitate a favorable environment for U.S. industry competing in foreign markets
 - In support of NIST's mission to promote innovation and industrial competitiveness via documentary standards
- Mechanisms:
 - National Center for Standards and Certification Information
 - Standards in Trade Workshops
 - Engagement in bilateral and regional standards dialogues and arrangements

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

Overview of NIST and the Standards Coordination Office

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