



Biometrics at the National Institute of Standards and Technology (NIST)

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U.S. Department of Commerce • Technology Administration •  National Institute of Standards and Technology



NIST At A Glance

- 2,800 employees
(Gaithersburg, Maryland; Boulder, Colorado;
Charleston, South Carolina)
- 1,800 guest researchers
- 1,500 field agents
- 850 users of facilities
- NIST Laboratories
- Baldrige National Quality Program
- Manufacturing Extension Partnership
- Advanced Technology Program

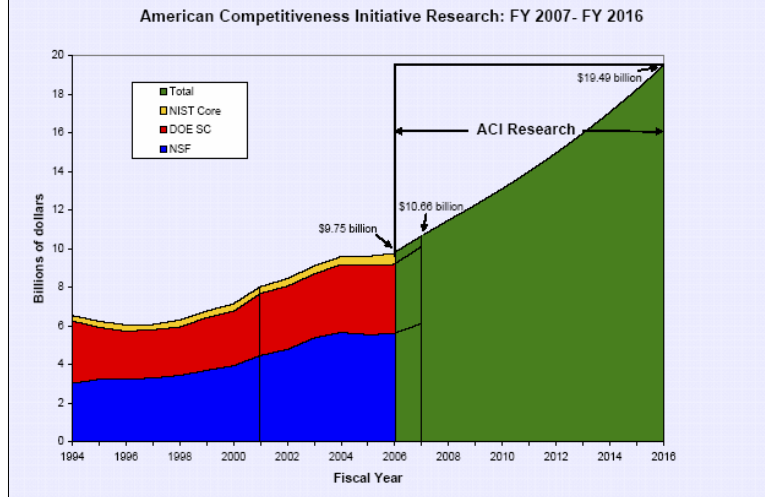


 National Institute of Standards and Technology



American Competitiveness Initiative: Doubling Basic Research

Figure 1: ACI Research Funding, 2007-2016.



NIST
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American Competitiveness Initiative

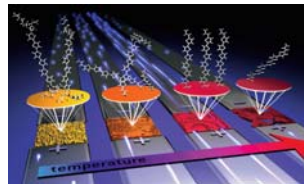


Rapidly developing technologies

- Cyber Security
- Nanotechnology from Discovery to Manufacture
- Quantum Information Science
- Enabling the Hydrogen Economy
- Innovations in Measurement Science

Critical national assets

- NIST Center for Neutron Research
- Synchrotron Measurement



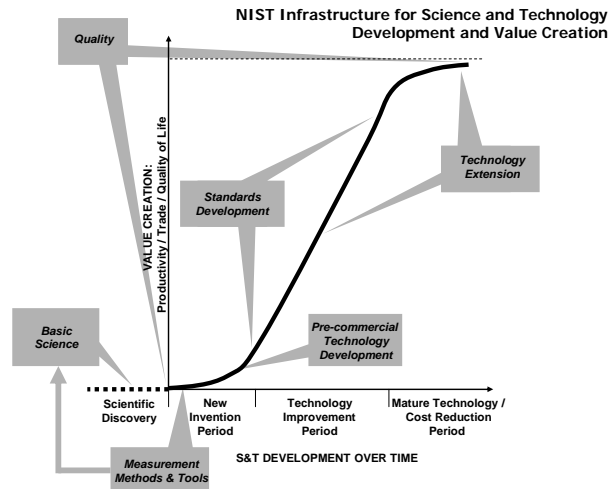
Immediate measurement needs

- Biometrics
- Innovation through Supply Chain Integration
- Structural Safety
- International Standards and Innovation
- Bioimaging

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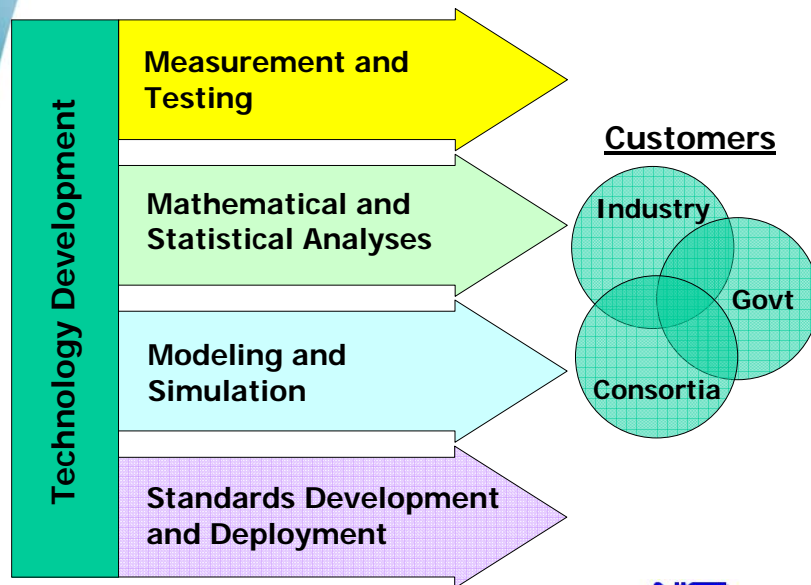
NIST impacts every stage of innovation...



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Core Competencies



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Vision for Biometrics at NIST

To leverage our expertise in biometrics and information technology to provide the standards and measurement infrastructure to underpin innovation in biometrics.

We do this by

- *Strengthening partnerships with the biometrics community*
- *Growing our in-house knowledge*
- *Teaching our federal and industry partners about NIST's broad capabilities and strengths*



Technology Development

NIST at BC2006:

- **ANSI/NIST Fingerprint Standards**
- **Biometric Standards – Development, Status, and Adoption**
- **Biometric Conformance Testing Methodology Standards**
- **Personal Identity Verification (PIV)**

Standards Development and Deployment





Technology Development

Measurement and Testing

NIST at BC2006:

- Testing of PIV Hardware and Software
- Minutia Interoperability Exchange Tests
- Conformance Testing of Biometric Interfaces
- Face Recognition Vendor Test (FRVT) and Iris Challenge Evaluation (ICE)



Technology Development

NIST at BC2006:

- Biometric Usability Studies
- Studies of Biometric Fusion
- Biometrics for Remote Authentication





NIST in Gaithersburg, MD

