

Welcome

Visiting Committee on Advanced Technology
June 11-12, 2013

Dr. Willie E. May

NIST Associate Director for Laboratory Programs and Principal Deputy

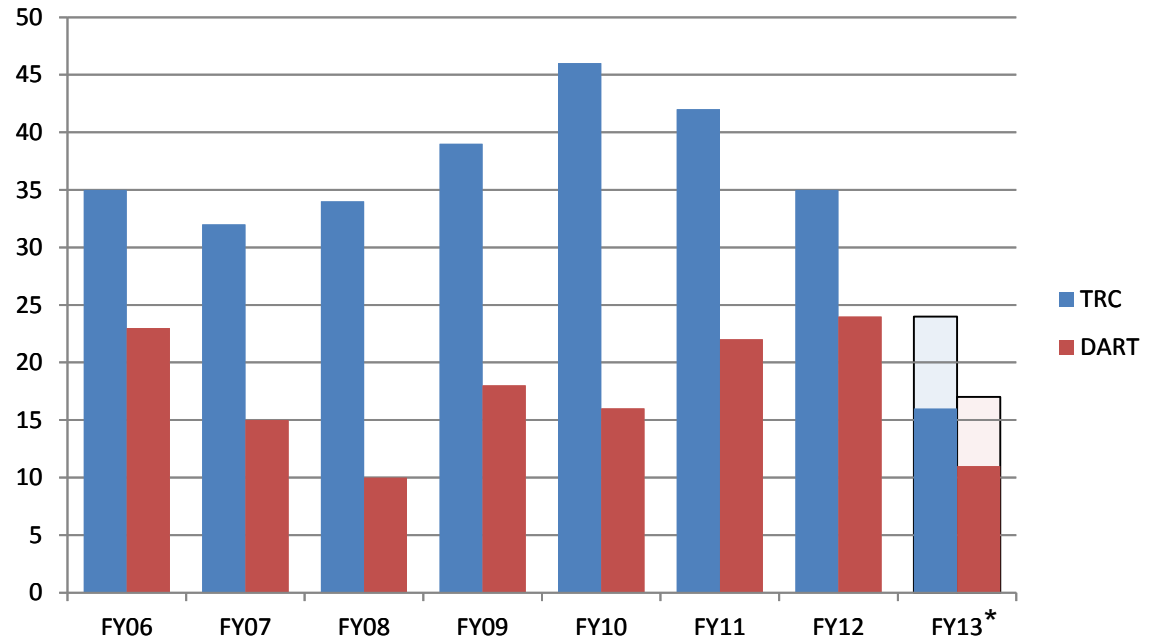
Safety Update

Total recordable case (TRC)

- To a first approximation, an injury that required medical treatment beyond first aid

DART case

- An OSHA recordable that resulted in employee Days Away, Restricted duty, or job Transfer



* FY13 data as of May 31, 2013. Black outline indicates current level extrapolated through the end of FY13.

Absolute number of OSHA cases down in FY 2013

Safety Initiatives

- Changing the culture: OU safety performance goals
 - Derived from OU's priorities
 - Goal is to have a specific area of need for improvement or attention
 - Touch on behaviors and attitudes of a wide variety of staff
- Focus on learning: Working towards driving down common types of incidents
 - What does our accident information tell us?
 - How do we use this information to improve our performance?
- Instilling a shared sense of safety performance: NIST leadership conducting safety 'grand rounds'



Budget Update

FY 2013

- FY 13 budget enacted March 26, 2013
- With rescissions and sequester, still provides additional \$20M for NIST
- Includes funds for Centers of Excellence and AMTech

FY 2014 Request

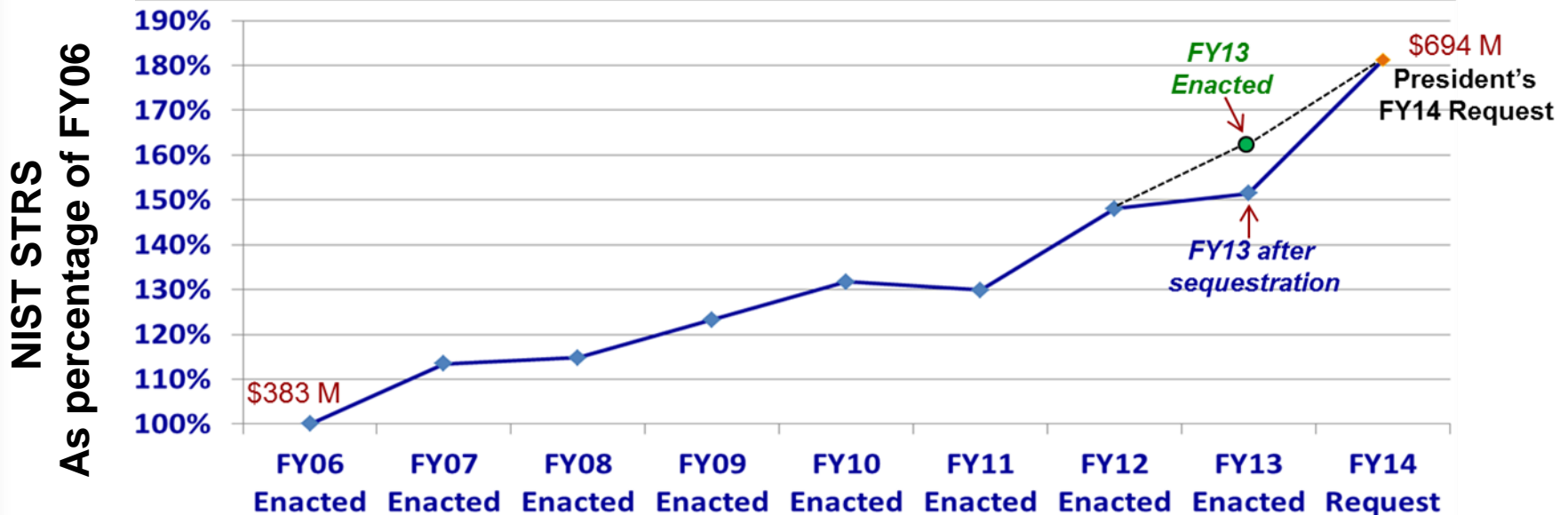
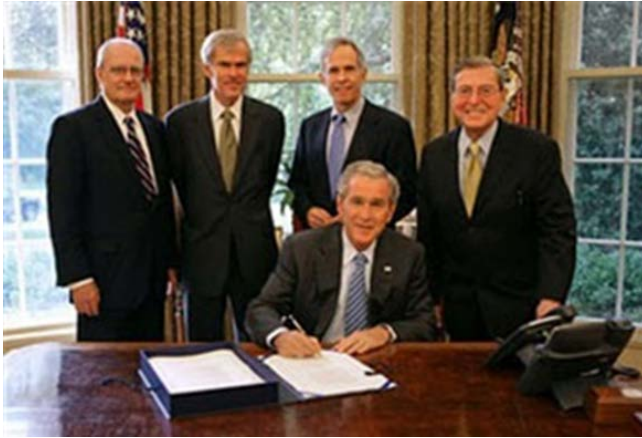
- Submitted April 10, 2013
- Includes \$114M increase for NIST Lab Programs, \$41M increase for ITS, \$4M increase for CRF, and \$1B in one-time funding for NNMI

FY 2015 Request

- Internal planning processes have begun

U.S. Innovation Agenda – NIST has an increasing role

Both the American Competitiveness Initiative & the America COMPETES Act called for substantially increased funding for NIST laboratory Programs



Notional FY13 Budget for NIST Labs

+ \$54 (relative to FY12 level before Sequester and Rescission)

Proposed Allocation of FY13 Program Increases for NIST (M)

- Restoration of Core Programs \$20
- **Advanced Manufacturing R&D** \$15
- Cybersecurity \$ 5
- Advanced Communications \$ 5
- NIST Centers of Excellence \$ 7
- Disaster Resilience \$ 2

Advanced Manufacturing

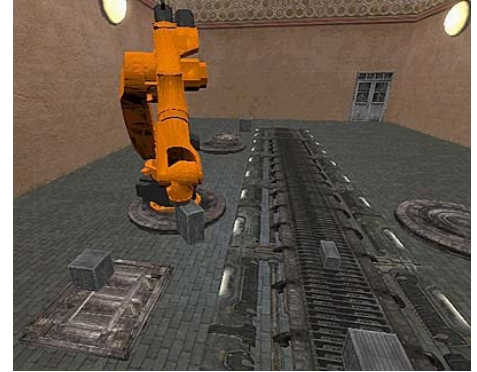
+ \$ 15.2 M

- Advanced Materials (Matls Genome) \$ 5.2 M
- Biomanufacturing \$ 2 M
- Nanomanufacturing \$ 2 M
- Smart Manufacturing \$ 2 M
- Advanced Neutron Technologies \$ 2 M
- Embedded Standards \$ 2 M

NIST FY2014 Program Increases

1. Advanced Manufacturing Activities (+\$50M)

- Measurement science and data infrastructure for advanced materials (Materials Genome Initiative) (+\$10M)
- Supporting manufacturing with emerging technologies (+\$20M)
- Precision measurements for manufacturers (+10M)
- Measurement science to enable the integration and use of smart manufacturing (+\$10M)



2. Cybersecurity R&D and Standards (+\$15M)

3. Advanced Communications (+\$10M)

4. Cyber-Physical Systems (+\$10M)

5. NIST Centers of Excellence (+\$20M)

6. Health Information Technology (+\$3M)

7. Challenges in Forensic Science (+\$5M)

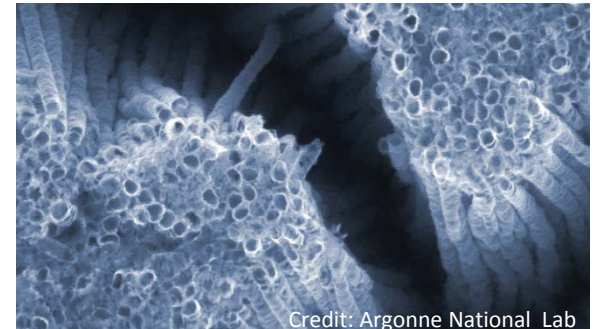
8. Disaster Resilience (+\$5M)

9. National Strategy for Trusted Identities in Cyberspace (NSTIC) (+\$8M)

10. National Initiative for Cybersecurity Education (NICE) (+\$1M)

11. Manufacturing External Programs

- AMTech (+\$21.4M)
- M-TACs (+\$25M)
- NNMI (+\$1.0B in one-time funding)



Credit: Argonne National Lab



Credit: Shutterstock

VCAT Meeting Agenda Review

Day 1

Session I: Overview

Call to Order

Alan Taub, VCAT Chair

Welcome and Agenda Review

Willie May, Associate Director for Laboratory Programs and Principal Deputy

NIST Safety Update

Richard Kayser, Chief Safety Officer

Session II: Advanced Manufacturing

Overview of NIST Activities in Support of Advanced Manufacturing

Willie May

Update on NIST Extramural Programs in Advanced Manufacturing

Frank Gayle, Deputy Director, Advanced Manufacturing National Program Office

Alex Folk, Program Development Office Director, Manufacturing Extension Program

A Model for Working with Manufacturers – NIST Center for Automotive Lightweighting (NCAL)

Tim Foecke, Director, NCAL and Leader, Materials Performance Group, Materials Science and Engineering Division, Material Measurement Laboratory

VCAT Meeting Agenda Review

Day 1

Session III: Cybersecurity (Part 1)

National Cybersecurity Center of Excellence (NCCoE): Current Status and Future Plans

Donna Dodson, Acting Associate Director and Acting Chief Cybersecurity Advisor, Information Technology Laboratory (ITL)

NCCoE Partnership Perspectives: Building Blocks for Cybersecurity

Vernon Lee, Federal Civilian Chief Technology Officer, Microsoft Services

Session IV: Program Update: Forensics

NIST's Role in Forensic Science

Willie May

Memorandum of Understanding on Forensic Science between NIST and the Department of Justice

Mark Stolorow, Director, Law Enforcement Standards Office (OLES)

Forensic Science and the NIST Laboratory Programs

Richard Cavanagh, Director, Office of Special Programs

VCAT Meeting Agenda Review

Day 2

Session V: NIST Update

NIST Update

Patrick Gallagher, Under Secretary of Commerce for Standards and Technology and NIST Director

Session VI: Advanced Communications

NIST and Advanced Communications

Jason Boehm, Director, Program Coordination Office

Session VII: NIST Centers of Excellence

NIST Centers of Excellence Program: An Update

Willie May

Session VIII: Cybersecurity (Part 2)

Cybersecurity Framework Development Overview: NIST's Role in Implementing Executive Order 13636 "Improving Critical Infrastructure Cybersecurity"

Adam Sedgewick, Senior Information Technology Policy Advisor, ITL

Session IX: Wrap-Up

Review of Action Items and Plans for October 2013 Meeting

Alan Taub