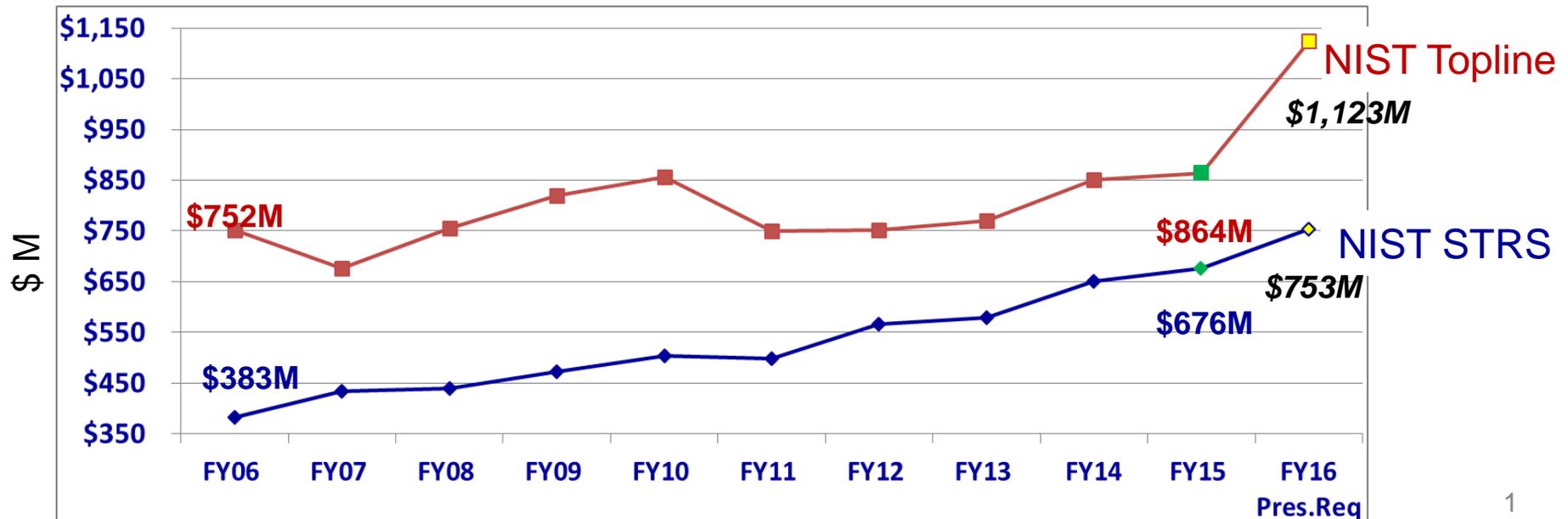


This is one of the most exciting time periods in the History of NIST!

We have a great and unique Mission and are:

- a key player on the Administration's Innovation Team
- the nation's go-to agency for measurements, standards, and technology
- receiving bipartisan and bicameral support



NIST – Who We Are and What We Do

NIST is a world class scientific and technical agency uniquely focused on driving innovation and economic competitiveness through

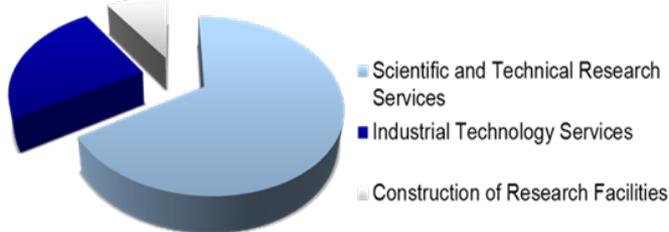
- **a world-leading scientific research program** -- measurement, technology, and standards solutions to our stakeholders
- **a nation-wide network of centers** -- focused on strengthening our nation's small and medium manufacturers
- **a program in performance excellence** -- used to assess the nation's companies and organizations which is recognized, utilized, and emulated around the world
- **an Advanced Manufacturing Program Office** -- facilitating expansion of a nation-wide network of Institutes for innovation in Manufacturing

NIST-at-a-Glance

Major Assets

- ~ **3,000 Employees**;
1800 Scientists and Engineers
- ~ **3,500 Associates**
- ~ 400 NIST Staff on ~1,000 national and international standards committees

NIST FY 2015 Congressional Appropriations \$864 M



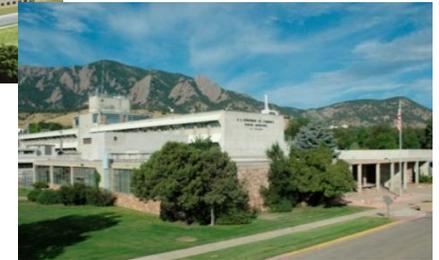
Plus

- ~ **\$120 M** from other Government Agencies
- ~ **\$50 M** for other reimbursable services

NIST has two main campuses



Gaithersburg, MD
62 buildings; 578 acres



Boulder, CO
26 buildings; 208 acres

+ two sites housing NIST radio stations:

- Ft. Collins; 390 acres
- Kauai; US Navy 30 acre site

and seven joint institutes

- **JILA** – *amo physics*
- **JQI** – *quantum science*
- **IBBR** – *adv. therapeutics*
- **HML** – *marine bioscience*
- **JIMB** – *“genomics and synthetic biology”*
- **NCCoE** – *cybersecurity*
- **CHiMaD** – *“materials by design”*

NIST Centers of Excellence

- **First of these new “Centers of Excellence” is focused on Advanced Materials**

- Center for Hierarchical Materials Design (CHiMaD)
 - NIST, Northwestern Univ., Univ. of Chicago, Argonne Natl. Lab

- **Within the next few months, NIST will announce the establishment of two additional CoEs**

Forensic Science

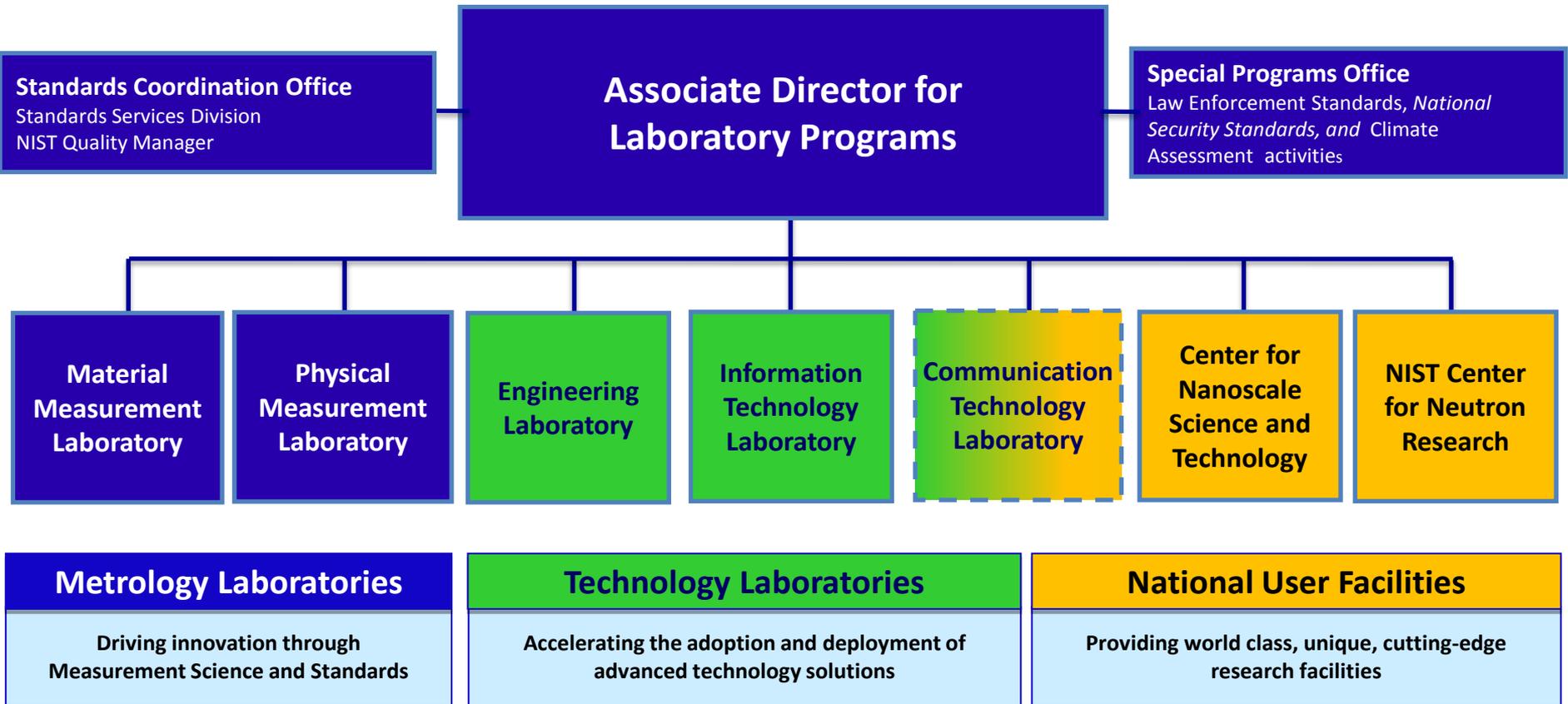
- for developing probabilistic methods to support the forensic science disciplines, focusing Pattern Evidence and Digital Evidence
- also for developing training tools for practitioners and non-practitioners

Disaster Resilience

- for developing integrated, systems-based community infrastructure resilience computational models
- for developing and maintaining a data management infrastructure, tools and best practices to improve disaster and resilience data collection

NIST Laboratory Program

providing measurement solutions for industry and the nation



NIST Lab Resources for FY15

- ~ \$676 million from Direct Appropriations
- ~ \$100 million from Other Federal and State Agencies
- ~ \$50 million for other reimbursable services

Since our inception, in addition to maintaining the more traditional National physical measurement standards, **we have also focused a significant portion of our research and measurement services activities on addressing contemporary societal needs.**



NIST has become:

- a key player on the Administration's Innovation Team
- the nation's go-to agency for measurements, standards, and technology

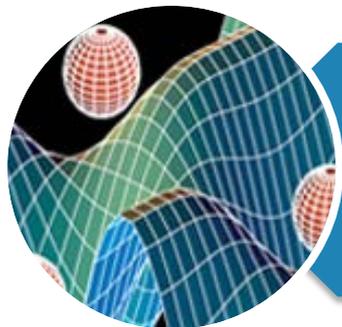


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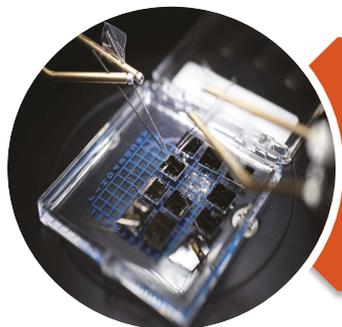
- **Advanced Communications**
- **Advanced Manufacturing**
- **Climate Assessment**
- **Cybersecurity**
- **Disaster Resilience**
- **Renewable Energy**
- **Forensic Science**
- **Healthcare**

Priorities in NIST FY 2016 Budget Request



Scientific and Technical Research and Services \$754.7 M (+\$79.2 M)

Strengthens efforts in many areas of national importance



Industrial Technology Services \$306.0 M (+\$167.9 M)

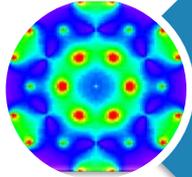
Requests funds to establish NNMI and continues support for MEP and AMTech



Construction of Research Facilities \$59.0 M (+\$8.7 M)

Sustains funding for facilities and provides an increase for safety, capacity, maintenance, and major repair

STRS Initiative Summary (\$754.7 M, +\$79.2 M)



Ensuring a World-Class Neutron Facility
(+\$11.0 M)



Cryptographic Capabilities
(+\$7.0 M)



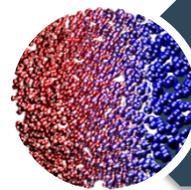
Quantum Based Sensors and Measurements
(+\$5.0 M)



Advanced Communications
(+\$9.0 M)



Advanced Sensing for Manufacturing
(+\$5.0 M)



Materials Genome Initiative
(+\$10.0 M)



Engineering Principles for Efficient Biomanufacturing
(+\$4.0 M)



Disaster Resilient Buildings and Infrastructure
(+\$10.0 M)



Smart Cities & Cyber Physical Systems
(+\$5.0 M)



Manufacturing Entrepreneurship
(+\$5.0 M)



Lab to Market
(+\$4.0 M)