NIST and Technology Transfer

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Government Transfer Technology

- Large investment in mission focused research, including basic research - $140 billion
- Missions range from space flight at NASA, defense industries, energy production, health care and many others
- Useful as an economic engine for innovation and growth of new businesses
- We consider an expansive view of technology transfer
  - Patenting/Licensing
  - Technical publications
  - Collaborations – formal and informal
  - Public Domain software

Goal of U.S. Technology Transfer: Availability and Use of Innovations

Government

- Research/Invent
- Regulate
- Public benefit
- Consumer

Private Industry

- Develop
- Manufacture
- Distribute
- Market
- Sell
- Requires private capital

Policy Coordination

- The U.S. Department of Commerce provides policy coordination and promulgation of technology transfer regulation
- NIST leads the Interagency Workgroup for Technology Transfer (11 agencies)
- Annual reports for the President, the Congress, and OMB on utilization of technology transfer by DOC and across all agencies
- NIST has a statutory role as the “Host Agency” for the Federal Laboratory Consortium for Technology Transfer (~300 labs)

Lab to Market

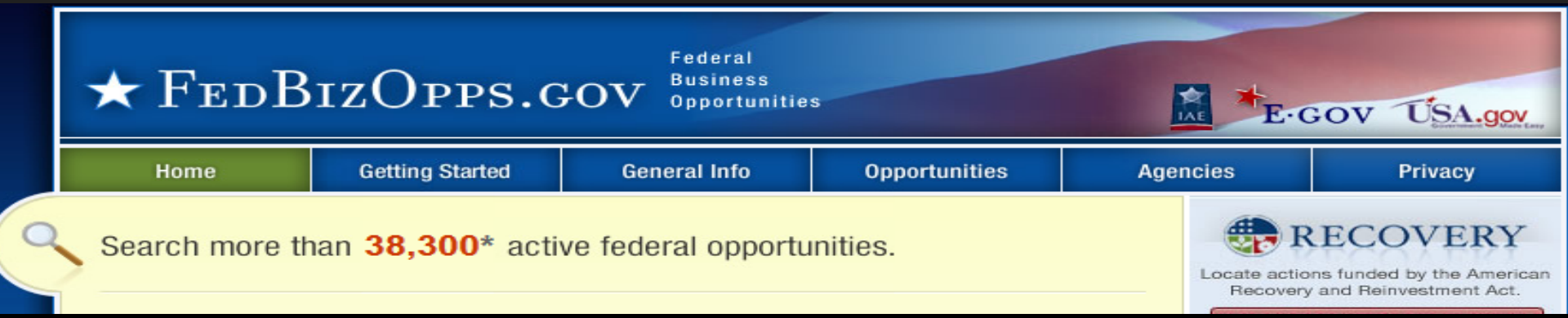
FY 2015 President's Management Agenda – Lab-to-Market Cross-Agency Priority Goal established to improve & accelerate technology transfer

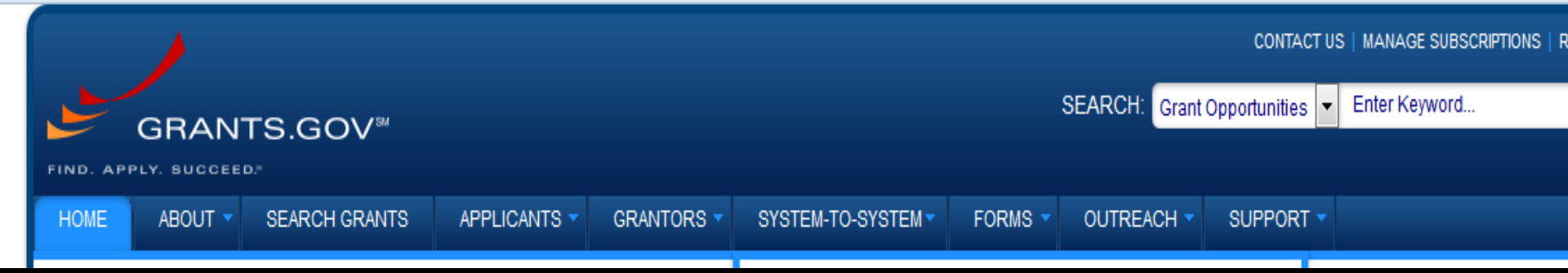
President Barack Obama signs the America Invents Act September 16, 2011, at Thomas Jefferson High School for Science and Technology in Alexandria, VA.

GOAL ACTIONS

(1) Optimize the management, discoverability, and ease-of-license of 100,000+ Federally-funded patents
(2) Increase the utilization of Federally-funded research facilities by entrepreneurs and innovators
(3) Ensure that relevant Federal institutions and employees are appropriately incentivized to prioritize R&D commercialization
(4) Identify steps to develop human capital with technology transfer experience
(5) Maximize the economic impact of the Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs

Federal Funds





SMALL BUSINESS INNOVATION RESEARCH (SBIR)

- Stimulate technological innovation
- Use small business to meet Federal R&D needs
- Foster and encourage participation by women and socially and economically disadvantaged persons in technological innovation
- Increase private-sector commercialization of innovations derived from Federal R&D

http://www.sbir.gov/solicitations

http://tsapps.nist.gov/techtransfer/

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NISTTECH

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Browse NIST technologies available for licensing, commercialization and research collaboration. Some of these technologies are patented
the patenting process. Other technologies are available without a patent.

Information on how to request a license, license templates, and the license application, are available HERE.

Subject Areas

- Bioscience & Health
- Building & Fire Research
- Chemistry
- Math
- Physics
- Electronics & Telecommunications
- Energy
- Environment/Climate
- Information Technology

Bioscience & Health

New medical diagnostic tests, improving the quality and cost-effectiveness of health care electronic records, reference materials for laboratory test methods, faster screening of promising vaccines, these are a few of the many areas where NIST research serves the needs of the bioscience and health care community.

Information Technology

Advancing the state-of-the-art in IT in such applications as cyber security and biometrics, NIST accelerates the development and deployment of systems and conducts research to develop the measurements and standards infrastructure for emerging information technologies and applications.

Building & Fire Research

The mission of the building and fire research programs at NIST is to anticipate and meet the measurement science, standards, and technology needs of the U.S. building and fire safety industries in areas of critical national need.

Manufacturing

NIST helps manufacturers of all kinds--shipbuilding to semiconductor makers--streamline their operations, improve quality, reduce environmental impacts, develop innovative products and processes, and expand their markets.

http://www.federallabs.org/

FLCBusiness.com

Summary

- Role of technology transfer is to encourage private business development
- Rely on partnerships
- Continued emphasis on technology and innovation

Thank You

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