Department of Defense Technology Transfer (T2) Program

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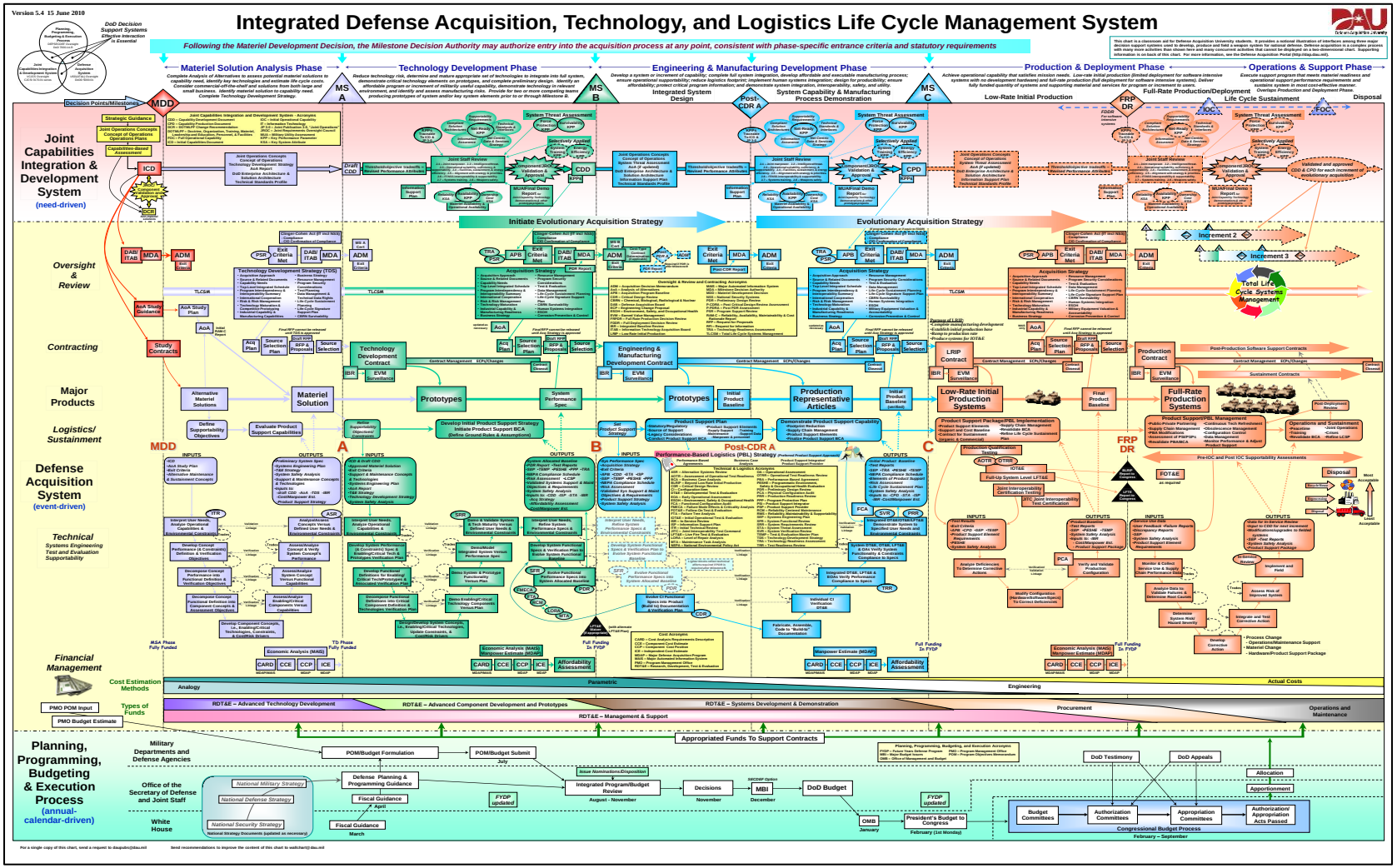
PRESENTED AT THE
NDIA 15TH ANNUAL SCIENCE &
ENGINEERING TECHNOLOGY/
DEFENSE TECH EXPOSITION
East Hyattsville, MD
8 April 2014

The World in which We Live …



Everything you need to know about Technology Transfer

- **Stevenson-Wydler Technology Innovation Act of 1980 (P. L. 96-480) requires government labs to take an active role in technical cooperation and budget for T2 activities**
  - Established an Office of Research & Technology Application (ORTA) in each lab to coordinate and promote technology transfer
- **First statute in a continuing series to define and facilitate the transfer of lab products to the commercial marketplace**
- **Federal Laboratory Consortium (FLC) is the "one-stop shop" for government lab T2 activities**

Administration & Congressional Interest in Expansion of T2 at DoD Labs

- **October 28, 2011 Presidential Memorandum – Accelerating Technology Transfer and Commercialization of Federal Research in Support of High-Growth Businesses**
  - 2012 Department of Defense Technology Transfer Strategic Action Plan
  - Completing second year of execution
  - Many lessons learned – Government and Industry need to work towards improved mutual understanding of operating environments
- **FY12 NDAA Sec. 5109. Collaborating with Federal Labs and R&D Centers**
  - Amendment to Small Business Act (15 USC 638 Section 9)
  - The head of each participating Federal agency may make SBIR and STTR awards to any eligible small business concern that intends to enter into an agreement with a Federal laboratory or federally funded research and development center
- **GAO Report 13-286, March 2013**
  - DEFENSE TECHNOLOGY DEVELOPMENT: Technology Transition Programs Support Military Users, but Opportunities Exist to Improve Measurement of Outcomes

Administration & Congressional Interest in Expansion of T2 at DoD Labs

- **FY13 NDAA Sec. 252. Regional Advanced Technology Clusters Report**
  - The participation of the Department of Defense in regional advanced technology clusters, including the number of—
    - Clusters supported
    - Technologies developed and transitioned to acquisition programs
    - Products commercialized
    - Small businesses trained
    - Companies started
    - Research and development facilities shared;
  - Implementation by the Department of processes and tools to facilitate collaboration with the clusters
- **FY14 NDAA Sec. 1603. Proof of Concept Commercialization Pilot Program**
  - Purpose of the pilot program is to accelerate the commercialization of basic research innovation from qualifying institutions (non-profit or federal lab)
  - Project management board comprised of industry, start-up, venture capital, technical, financial and business experts

Administration & Congressional Interest in Expansion of T2 at DoD Labs

- **White House Office of Science & Technology Policy Lab-to-Market Initiative**
  - Key element of the President's Management Agenda is accelerating the transfer of Federally funded research from the laboratory to the commercial marketplace – a "Lab-to-Market" agenda
  - Optimizing the management, discoverability, and ease-of-license of the 100,000+ Federally-funded patents
  - Increasing the utilization of Federally-funded research facilities by entrepreneurs and innovators
  - Ensuring that relevant Federal institutions and employees are appropriately incentivized to prioritize R&D commercialization
  - Identifying steps to develop human capital with experience in technology transfer, including by expanding opportunities for entrepreneurship education
  - Maximizing the economic impact of the Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs

ASD(R&E) Technology Transfer

- **ASD(R&E) sponsored IDA STPI Report: Exemplar Practices for Department of Defense Technology Transfer**
  - IDA Paper P-4957, January 2013
  - Successful DoD Lab T2 program practices highlighted
- **Established a new Technology Transfer Center of Excellence**
  - Arizona State University Entrepreneurship & Innovation Group
  - Implementation of the ASU Furnace Technology Transfer System
  - Goal is to accelerate T2 from DoD labs to the commercial marketplace
    - Dual-use, commercial and military markets
  - Proven performers in the creation of new companies and business lines from laboratory developed innovations and inventions
  - ASU will work with 2-3 DoD labs for the remainder of FY14 and early FY15
- **DoD T2 program supported by partnership intermediary TechLink at Montana State University**
  - Only dedicated PIA for OSD

National Media Attention

- **Allied Minds Announces Groundbreaking Agreements with U.S. Dept. of Defense Federal Labs & FFRDC (11 Sep 2012)**
  - *The historic agreements with U.S. Army RDECOM, Naval Surface Warfare Center, Crane Division and The Aerospace Corp. will create a new process for the smooth and efficient transfer of leading technologies to the commercial marketplace, and marks the first public-private partnership formed as part of the Defense Department's new initiative to use its R&D resources to benefit the nation's economy.*
    - Boston, MA – Allied Minds, a premier U.S. investment company, is pleased to announce that it has reached agreements with U.S. Department of Defense federal laboratories and research centers to create a series of groundbreaking public-private partnerships that will use technology transfer as a driver for economic growth and spur the global competitiveness of U.S. industry.
    - Boston-based Allied Minds, through its new subsidiary Allied Minds Federal Innovations Inc. (AMFI), has reached agreements with U.S. Army RDECOM (Research, Development, and Engineering Command), Naval Surface Warfare Center, Crane Division (NSWC Crane), and The Aerospace Corp. to create a new process for the transfer and commercialization of some of those labs' leading technology innovations…
    - http://www.alliedminds.com/announcements/allied-minds-announces-groundbreaking-agreements-with-u-s-department-of-defense-federal-laboratories

T2 Metrics—Collected and Assessed by OSD

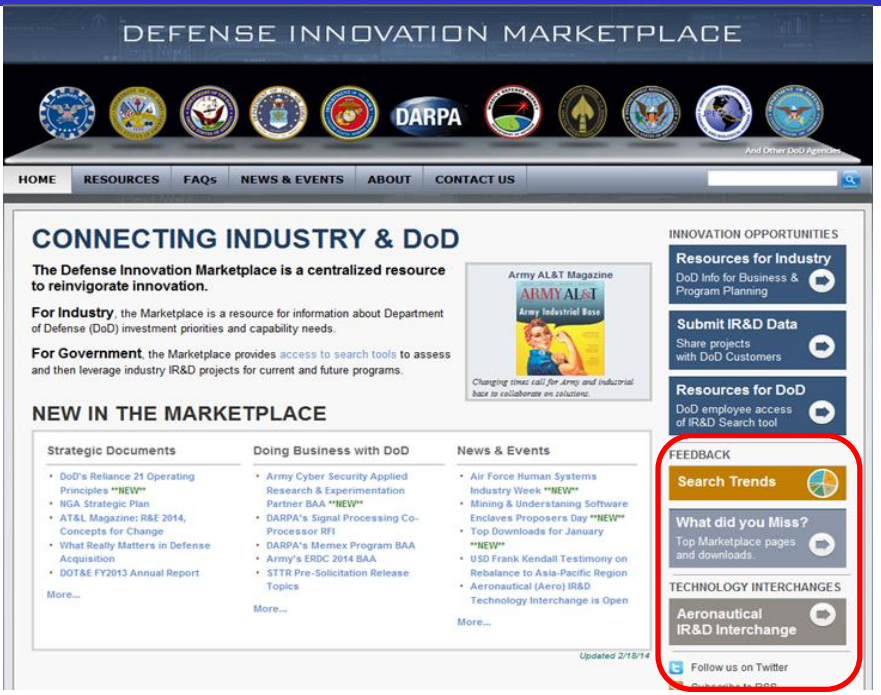
- # New inventions disclosed/ year
- # Patents applications filed/ year
- # Patents received/ year
- # of Foreign Patents filed
- # T2 Trademarks received/ year
- # New T2 licenses/ year
- # Total T2 licenses active
- % of new patents licensed
- % of total patents licensed
- # Patents cited in new patent applications
- # T2 licenses used in commercialized products
- # T2 licenses in products purchased by DoD/USG
- # of CRADAs that resulted in products procured by DoD
- $ Revenue received in T2 licenses
- $ Revenue received in CRADAs
- # Small firms, academic institutions, and other businesses receiving T2 licenses
- # New Firms (<5 yrs old) receiving T2 licenses
- # New Employees at firms resulting from receiving T2 licenses
- % Revenue Change/ Year for T2 license recipients
- # New businesses and associated jobs created

Metrics derived from DoD Technology Transfer Strategic Plan

Defense Innovation Marketplace

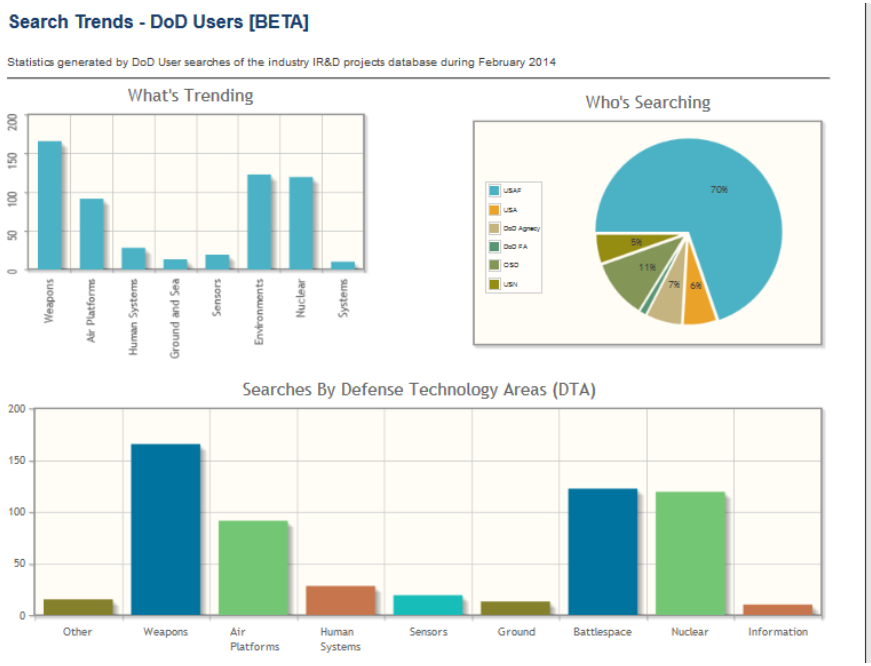
Resources for Industry & DoD

Improve Industry Understanding of DoD Needs



Marketplace: Resources for Industry

- DoD R&D Roadmaps; Investment Strategy
- Business Opportunities with the DoD
- Virtual Interchanges & Events
- Secure Portal for IR&D Project Summaries
- Top Downloads/Pages visited
- DoD IR&D SEARCH Trends



Marketplace: Resources for DoD

- Secure portal with 10,000+ IR&D Project Summaries
- Access for DoD S&T/ R&D and Acquisition Professionals
- DoD Searchers encouraged to contact the Industry POC listed on project summaries of interest

www.DefenseInnovationMarketplace.mil