



Department of Defense S&T Priorities

22 June 2011

**The Honorable Zachary J. Lemnios
Assistant Secretary of Defense for
Research and Engineering**



Secretary Gates' Priorities



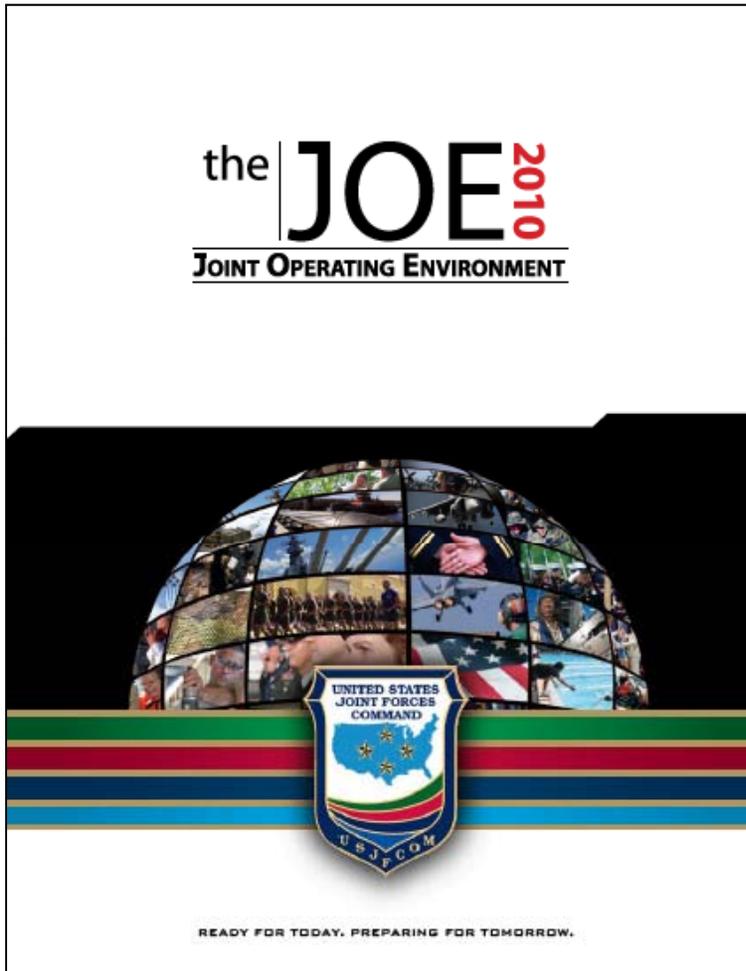
1. Take care of our people
2. Rebalancing the military
3. Reforming what and how we buy
4. Supporting our troops in the field

**SECDEF Efficiency Initiative
9 August 2010**

Secretary of Defense, HASC Budget Rollout Brief, February 2010



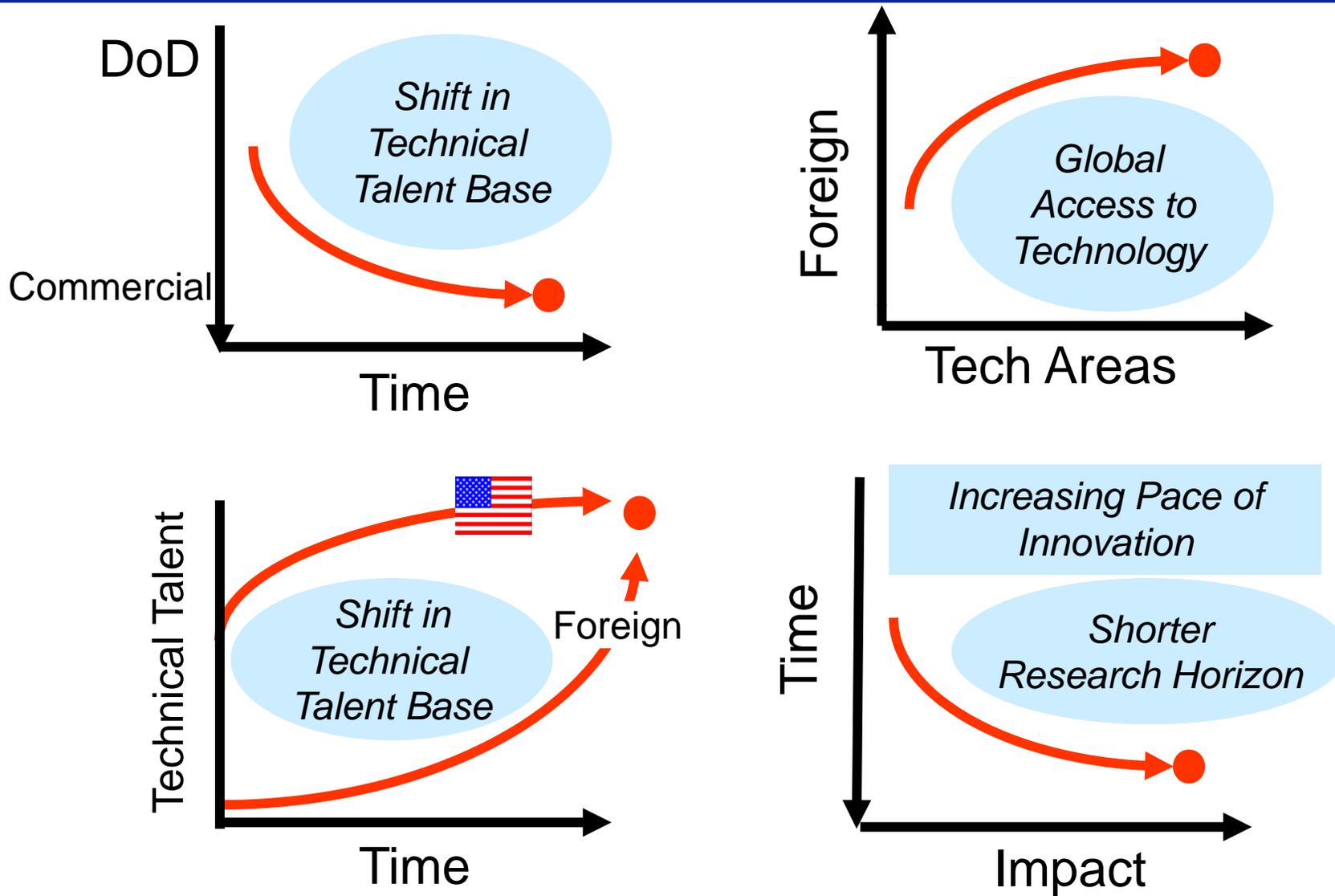
Global Challenges and Trends



- **Shifting Global Demographics**
- **Globalization shifts**
- **Energy**
- **Climate change & natural disasters**
- **Cyber as a new domain**
- **Challenges to existing state structures**
- **WMD proliferation**

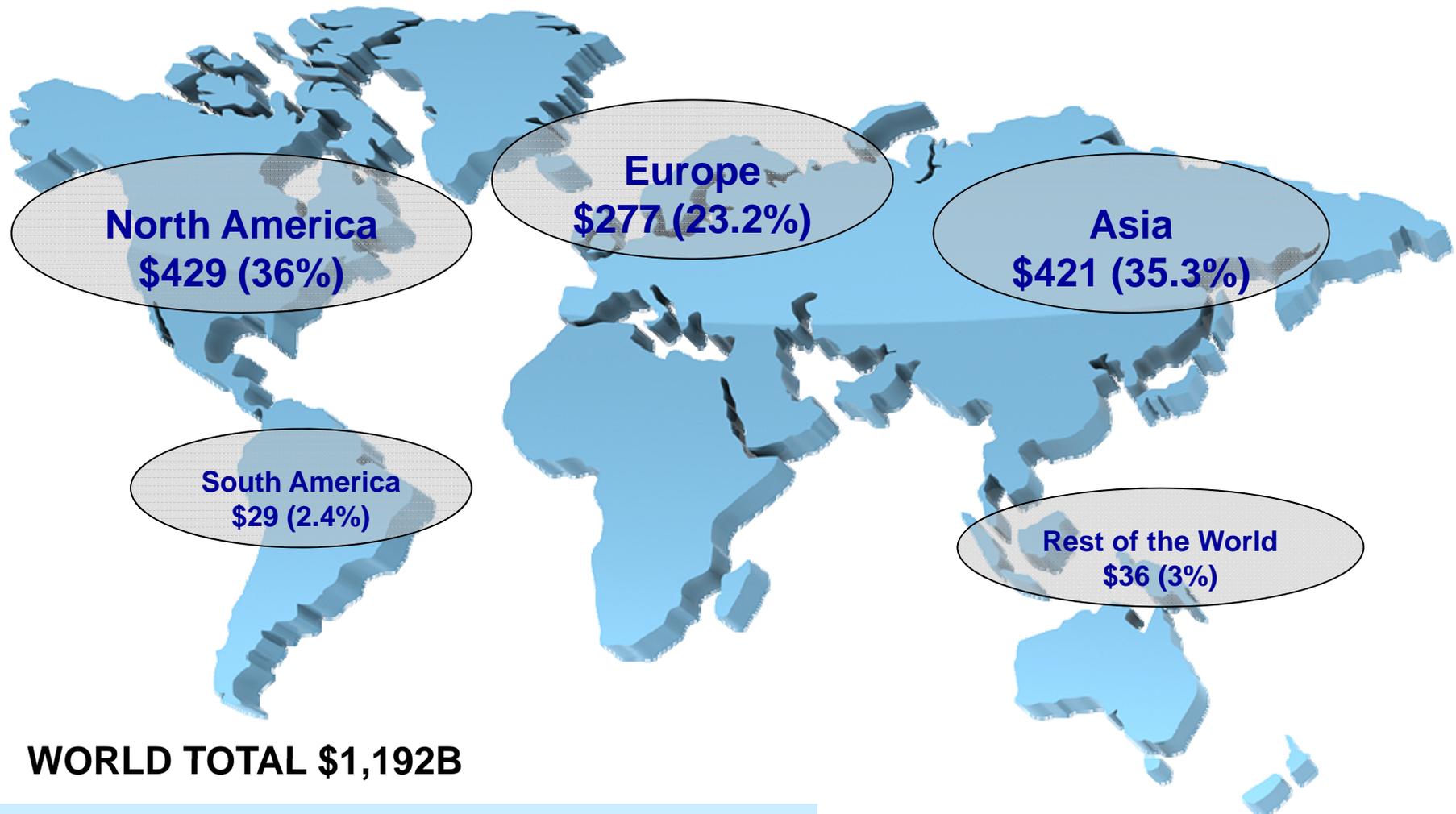


Key Challenges to our Technical Base





Globalization of R&D

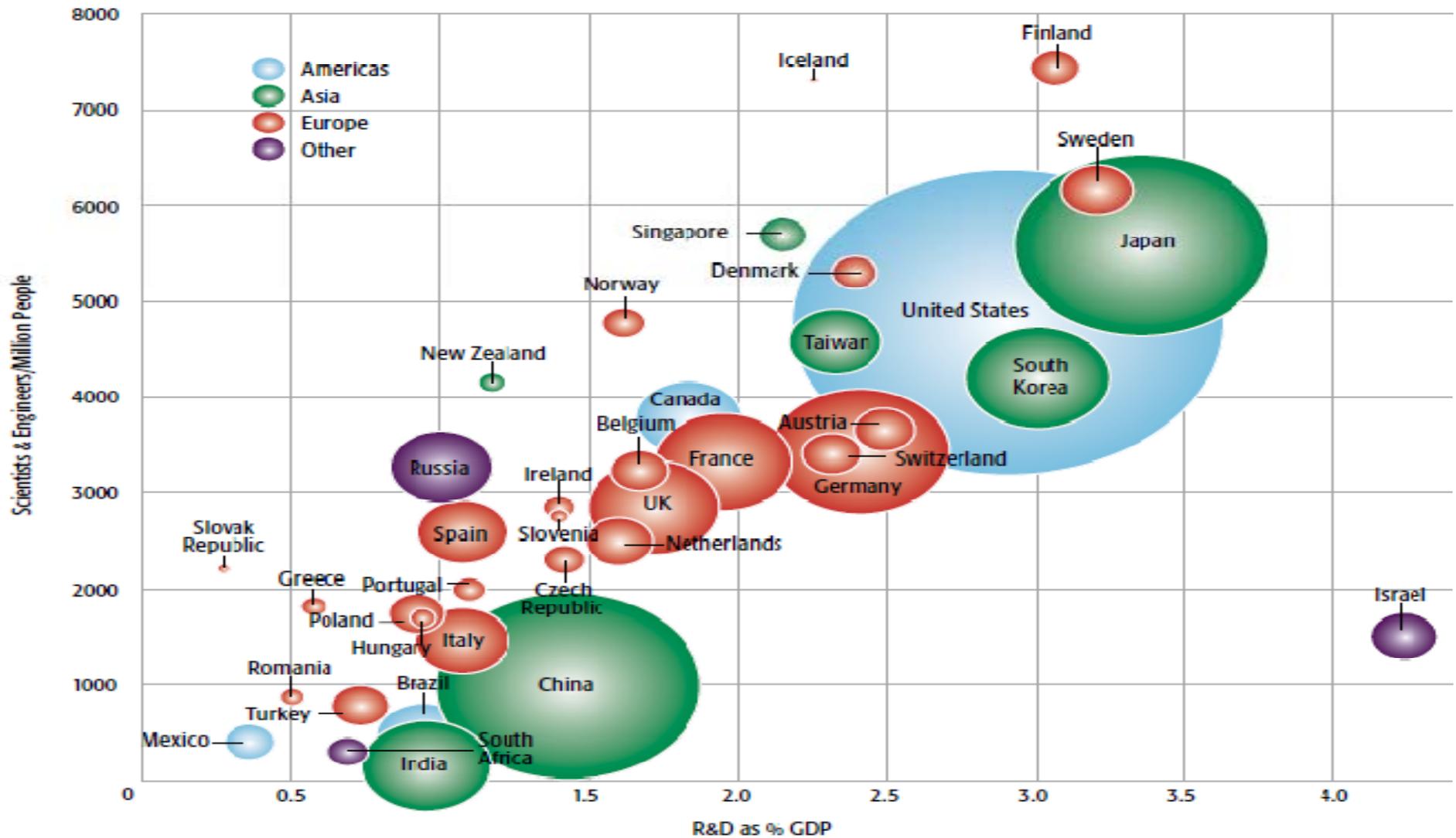


WORLD TOTAL \$1,192B

Source: www.rdmag.com "2011 Global R&D Funding Forecast" - Battelle



World R&D Trends: A Global Shift



Source: Battelle, R&D Magazine, OECD, IMF, CIA



Five Strategic Thrusts



Supporting Current Operations

Mandating Affordability Requirements

Improving Efficiency in Acquisition

Better
Buying
Power



Strengthening the Industrial Base

Strengthening the Acquisition Workforce



Better Buying Power

Target Affordability and Control Cost Growth

- Mandate affordability as a requirement
 - At Milestone A set affordability target as a Key Performance Parameter

Improve Tradecraft in Services Acquisition

- Create a senior manager for acquisition of services in each component, following the Air Force's example
- Adopt uniform taxonomy for different types of services

- Target Affordability and Control Cost Growth
- Incentivize Productivity & Innovation in Industry
- Promote Real Competition
- Improve Tradecraft in Service Acquisition
- Reduce Non-Productive Processes and Bureaucracy

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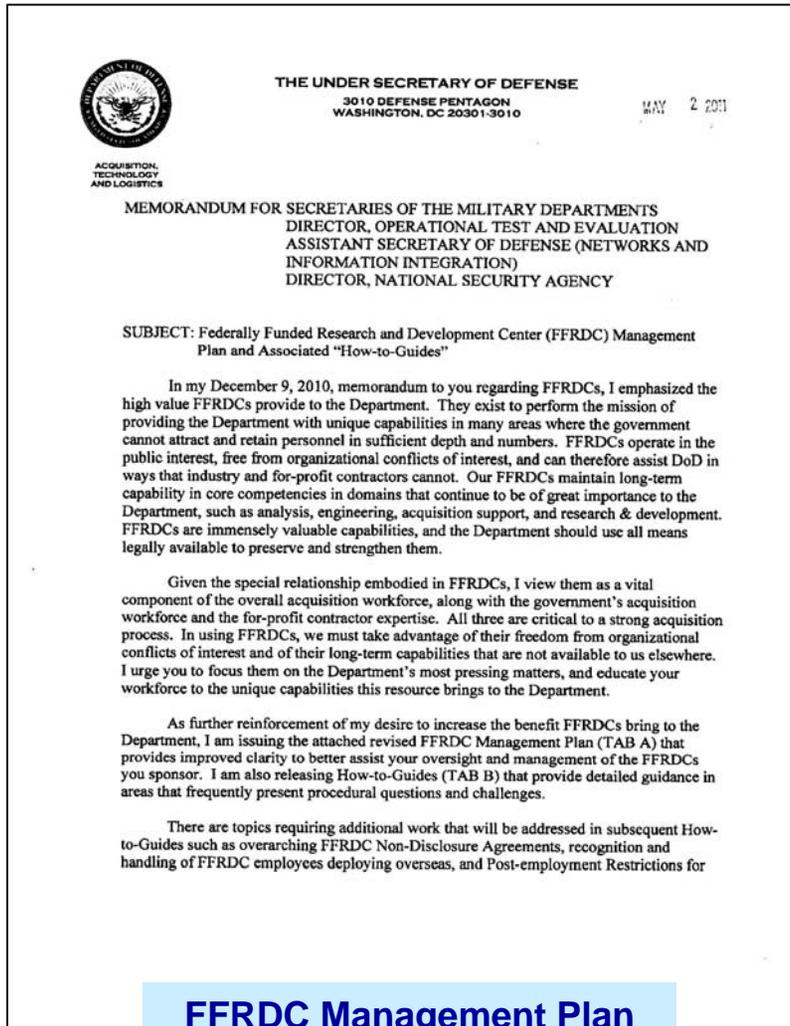
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- Require open system architectures and set rules for acquisition of technical data rights
- Increase dynamic small business role in defense marketplace competition

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 (FPRRs) to



Strengthen the Defense Industrial Base



**FFRDC Management Plan
Signed 2 May 2011**

What we've done:

- Published a new management plan for FFRDCs
- Communicated our perspectives on the base publicly
- Conducted analysis of specific issues

What we are doing:

- Conducting Sector by Sector and Tier by Tier industry analysis (S2T2)
- Being vigilant for specific issues in the base
- Evaluating specific issues brought to our attention by industry and/or Congress

What needs to still be done:

- Develop a holistic mapping of the industrial landscape based on the S2T2 analysis



Strengthen the Acquisition Workforce



Appendix 1 DOD Strategic Human Capital Plan Update The Defense Acquisition Workforce April 2010



The Defense Acquisition Workforce Improvement Strategy



FY10 Strategy

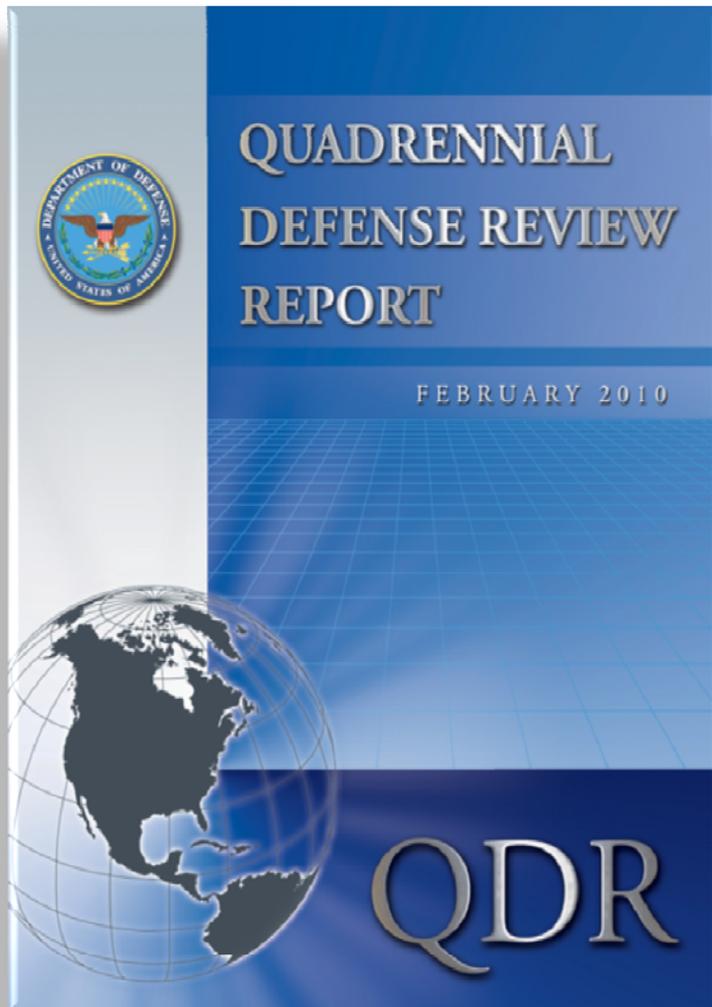
- 4,080 growth hires
- ~ 1,580 new hires
- ~ 2,500 insourcing

FY09-FY15 Strategy

- ~ 9,887 new hires
- ~ 10,000 insourcing



Quadrennial Defense Review Missions Require New Capabilities



1. **Defend the United States and Support Civil Authorities at Home**
2. **Succeed in Counterinsurgency, Stability, and Counterterrorist Operations**
3. **Build the Security Capacity of Partner States**
4. **Deter and Defeat Aggression in Anti-Access Environments**
5. **Prevent Proliferation and Counter Weapons of Mass Destruction**
6. **Operate Effectively in Cyberspace**



Capability Priorities for FY13-17



Complex Threats

**Electronic Warfare /
Electronic Protection**

**Cyber Science and
Technology**

**Counter Weapons of
Mass Destruction**

Force Multipliers

Data-to-Decisions

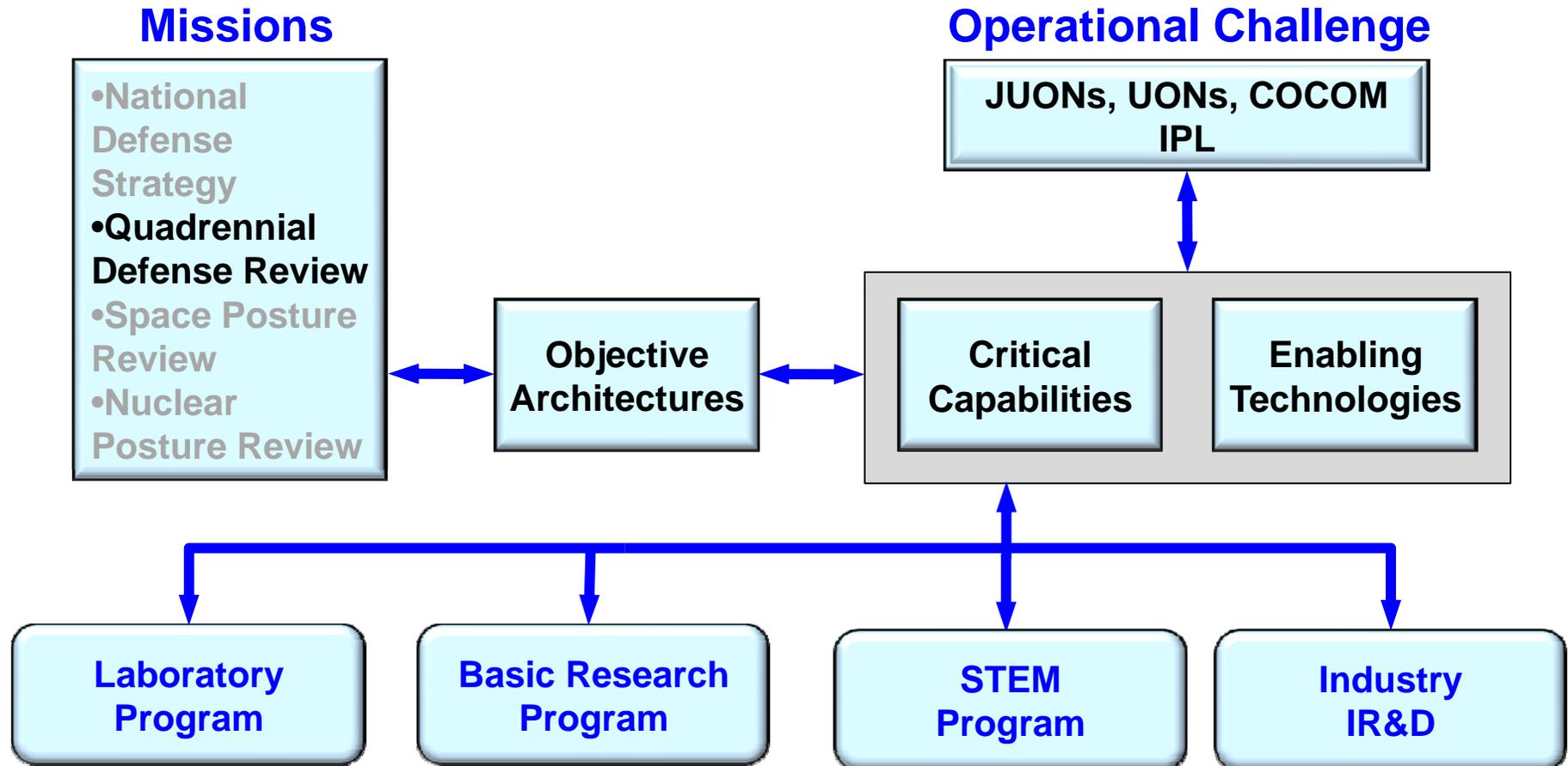
Autonomy

**Engineered Resilient
Systems**

Human Systems



Integrated S&T Enterprise

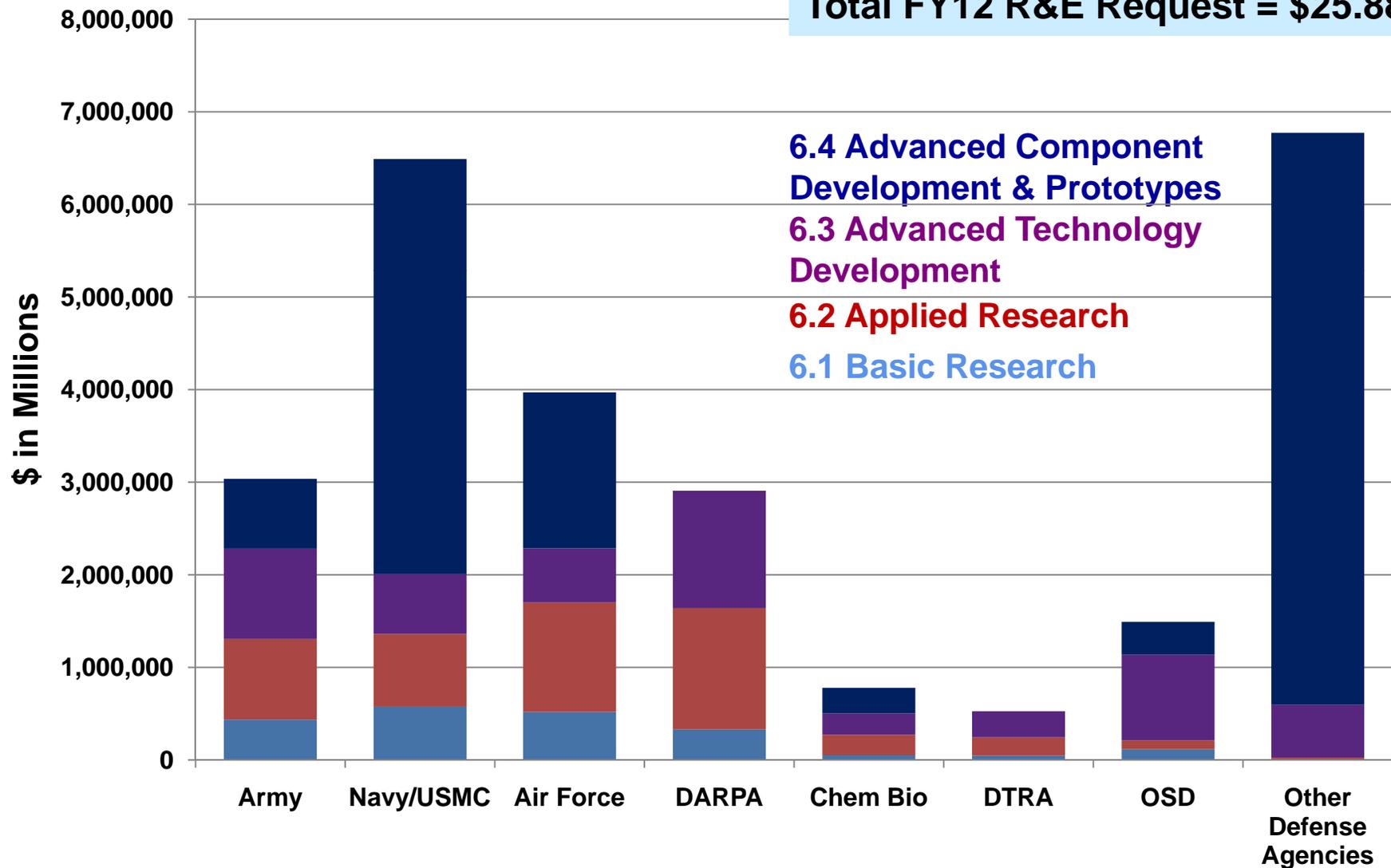




FY12 DoD R&E Budget Request



Total FY12 R&E Request = \$25.88B





Business Opportunities



<http://www.acq.osd.mil/ddre/index.html>