



**Fiscal Year 2013  
President's Budget Request  
for the  
DoD Science & Technology Program  
April 17, 2012**

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# Building the Department's Technical Foundation



## Guidance

SUSTAINING U.S. GLOBAL LEADERSHIP: PRIORITIES FOR 21<sup>ST</sup> CENTURY DEFENSE  
JANUARY 2012

DEFENSE BUDGET PRIORITIES AND CHOICES  
JANUARY 2012

## Primary Missions

- Defend the Homeland and Provide Support to Civil Authorities*
- Counter Terrorism and Irregular Warfare*
- Conduct Stability and Counterinsurgency Operations*
- Provide a Stabilizing Presence*
- Deter and Defeat Aggression*
- Project Power Despite Anti-Access / Area Denial Challenges*
- Counter Weapons of Mass Destruction*
- Operate Effectively in Cyberspace and Space*
- Conduct Humanitarian, Disaster, Relief and Other Operations*
- Maintain a Safe, Secure and Effective Nuclear Deterrent*

## S&T Focus Areas

**DoD S&T Priorities**

**SECDEF Guidance**

**Complex Threats**

- Electronic Warfare / Electronic Protection
- Cyber Science and Technology
- Counter Weapons of Mass Destruction

**Force Multipliers**

- Engineered Resilient Systems
- Data-to-Decisions
- Human Systems
- Autonomy

- **Counter AA/AD capabilities**
- **Low-cost, agile, flexible small-footprint operations**
- **Integrated partnership capabilities**

- **Humanitarian, Disaster, Relief and Other Operations**
- **Safe, Secure and Effective Nuclear Deterrent**

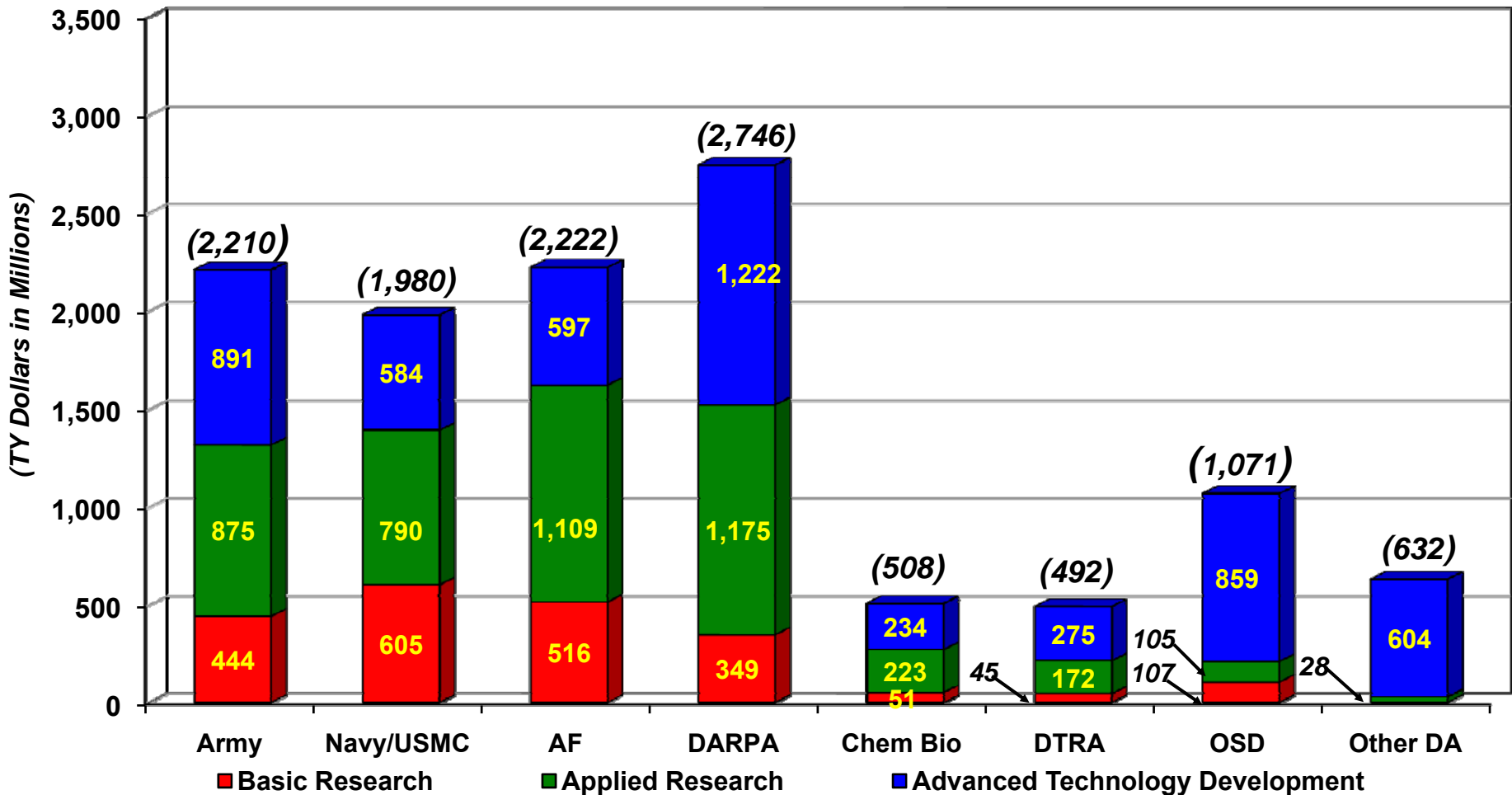


# FY13 DoD S&T Budget Request



**Total FY13 S&T request = \$11.86B**

**Total FY12 S&T Request = \$12.25B**  
 Army = 2,283 Navy = 2,009 AF = 2,286 DARPA = 2,907 ChemBio = 502 DTRA = 528 OSD = 1,136 Other DA = 595





# FY12 and FY13 RDT&E Budget Request Comparison

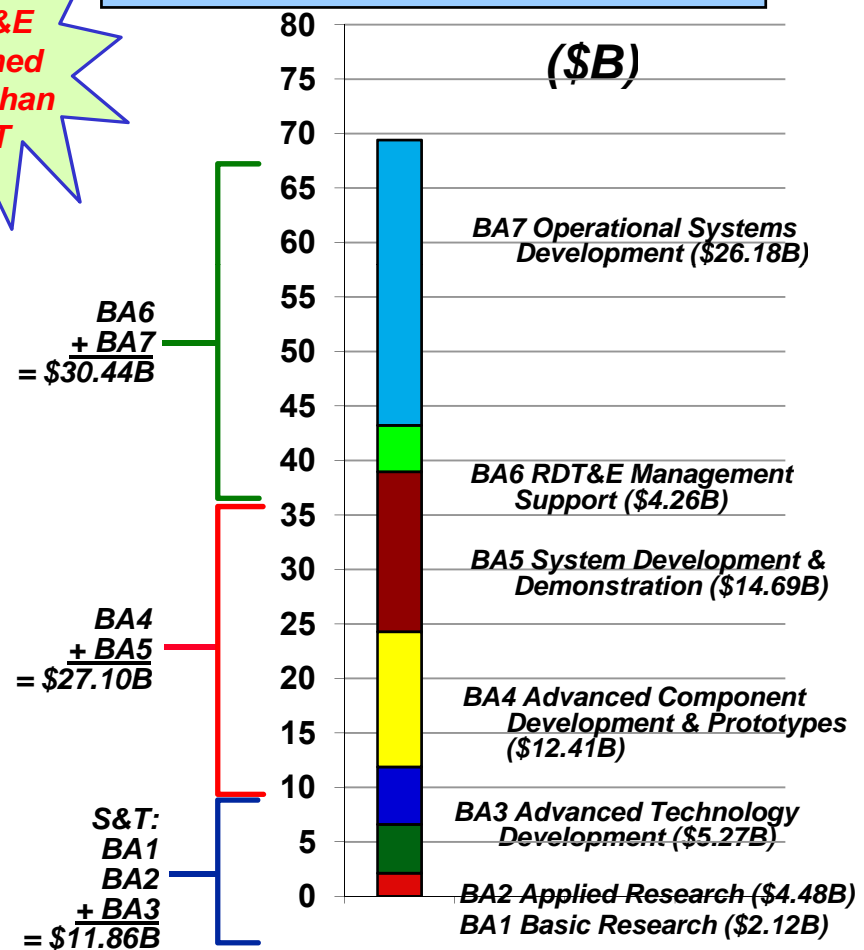
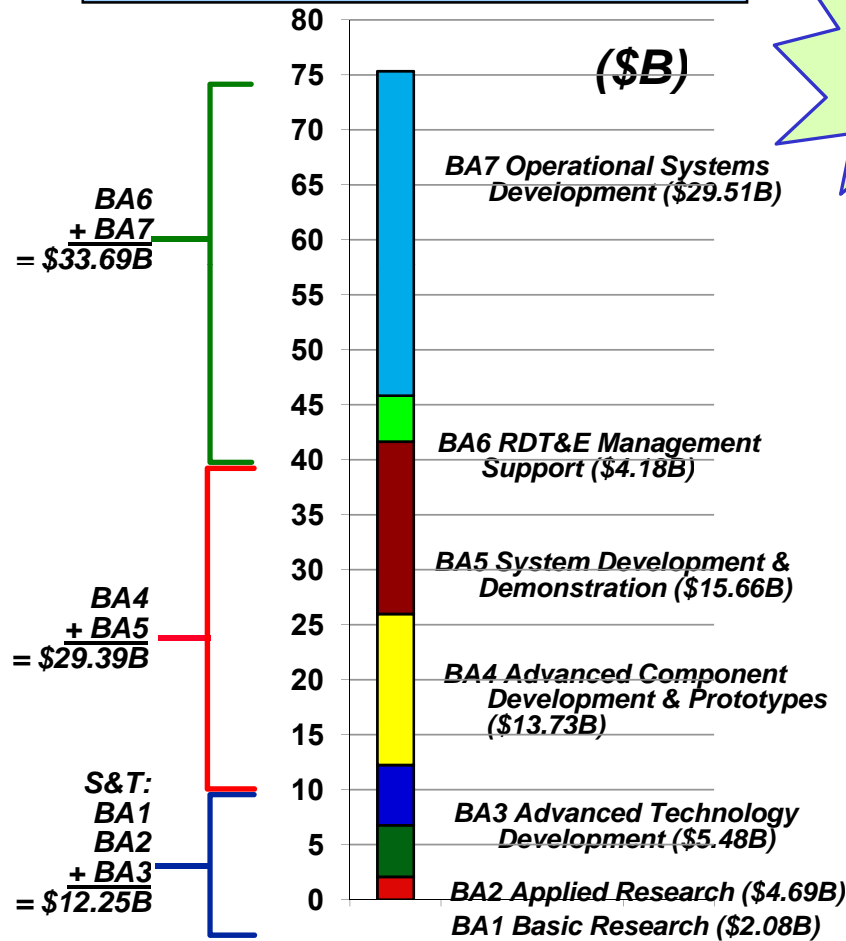
- in Then Year Dollars -



**FY12 RDT&E request = \$75.33B**  
(Budget Activities 1-7)

**FY13 RDT&E request = \$69.41B**  
(Budget Activities 1-7)

**RDT&E declined more than S&T**



Technology Base (BA1 + BA2) = \$6.77B

Technology Base (BA1 + BA2) = \$6.59B

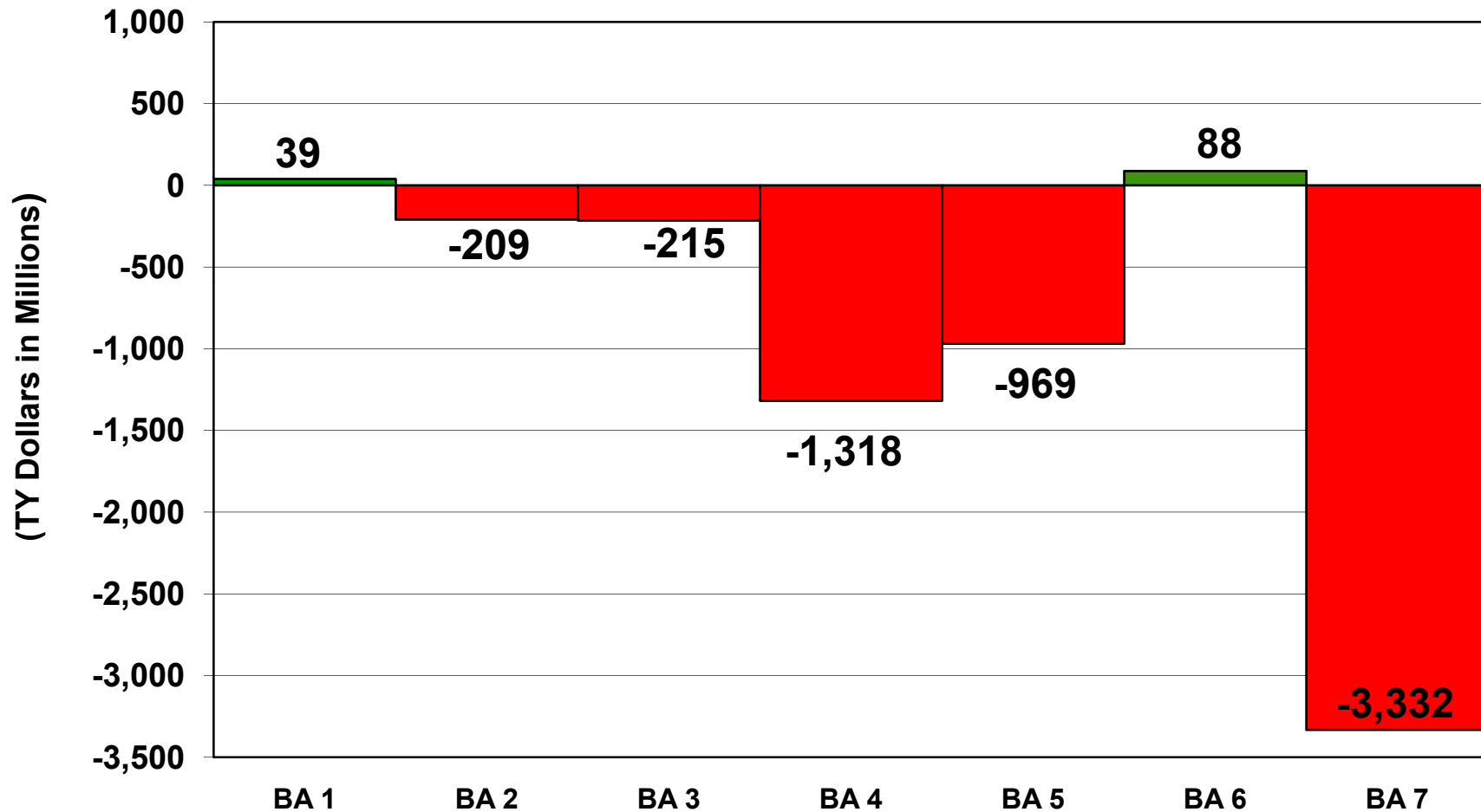
**PBR12 S&T is 16.0% of RDT&E**

**PBR13 S&T is 17.0% of RDT&E**



# RDT&E Budget Request Overview

## - FY12 and FY13 Comparison -





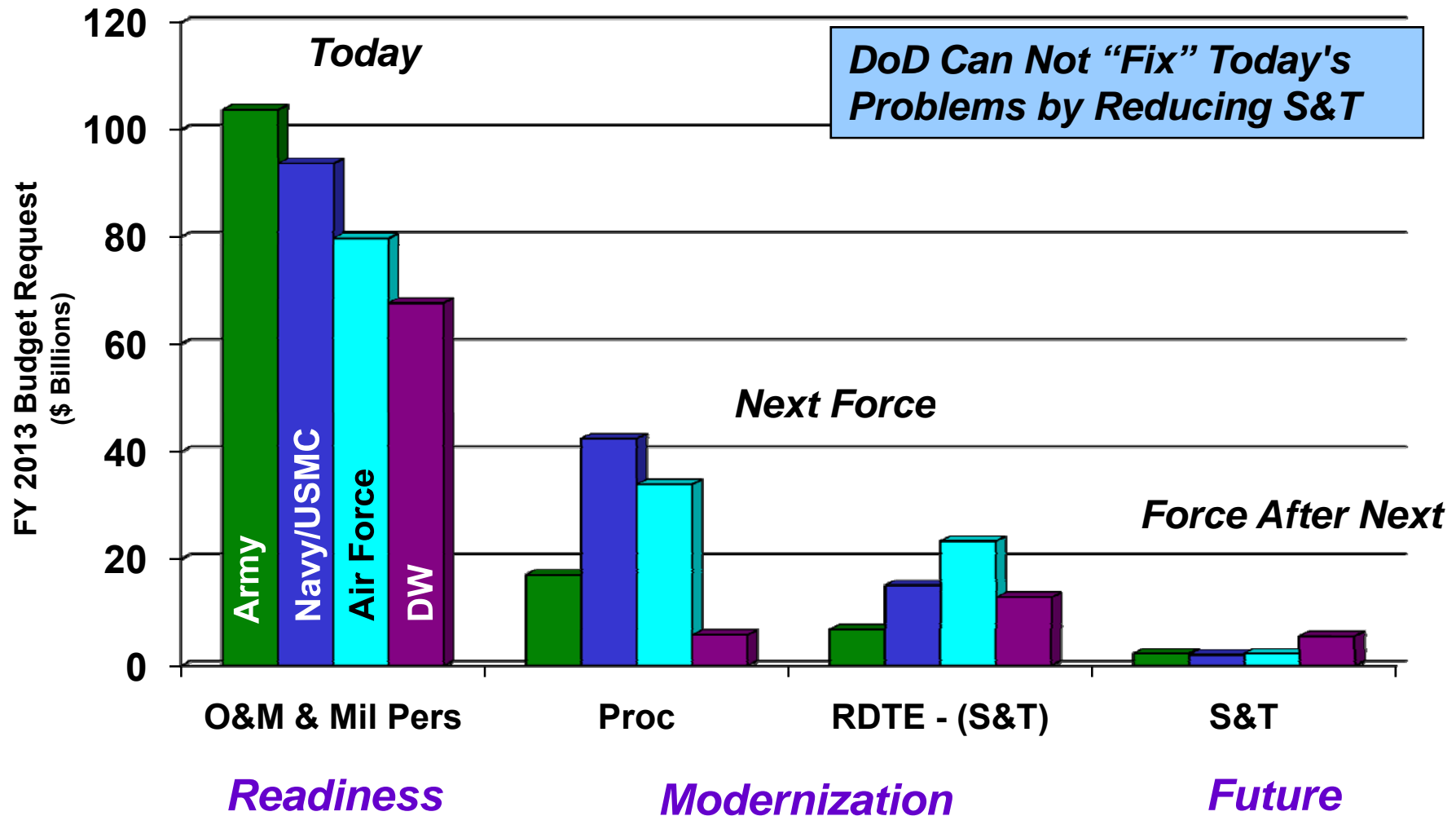
# FY13 DoD R&E Budget Request Comparison



	FY12 PBR	FY12 Approp	FY13 PB (Constant Year FY12)	Real Change from PBR 12 (In CY \$)
Basic Research (BA 1)	2,078	2,112	2,117 (2,082)	+0.18%
Applied Research (BA 2)	4,687	4,739	4,477 (4,405)	-6.03%
Advanced Technology Development (BA 3)	5,481	5,411	5,266 (5,180)	-5.49%
<b>DoD S&amp;T</b>	<b>12,247</b>	<b>12,263</b>	<b>11,861 (11,667)</b>	<b>- 4.73%</b>
Advanced Component Development and Prototypes (BA 4)	13,727	13,462	12,409 ( 12,206)	-11.08%
<b>DoD R&amp;E (BAs 1 – 4)</b>	<b>25,974</b>	<b>25,725</b>	<b>24,270 (23,873)</b>	<b>-8.09%</b>
<b>DoD Topline</b>	<b>553,941</b>	<b>650,589</b>	<b>525,449 (515,096)</b>	<b>-7.01%</b>



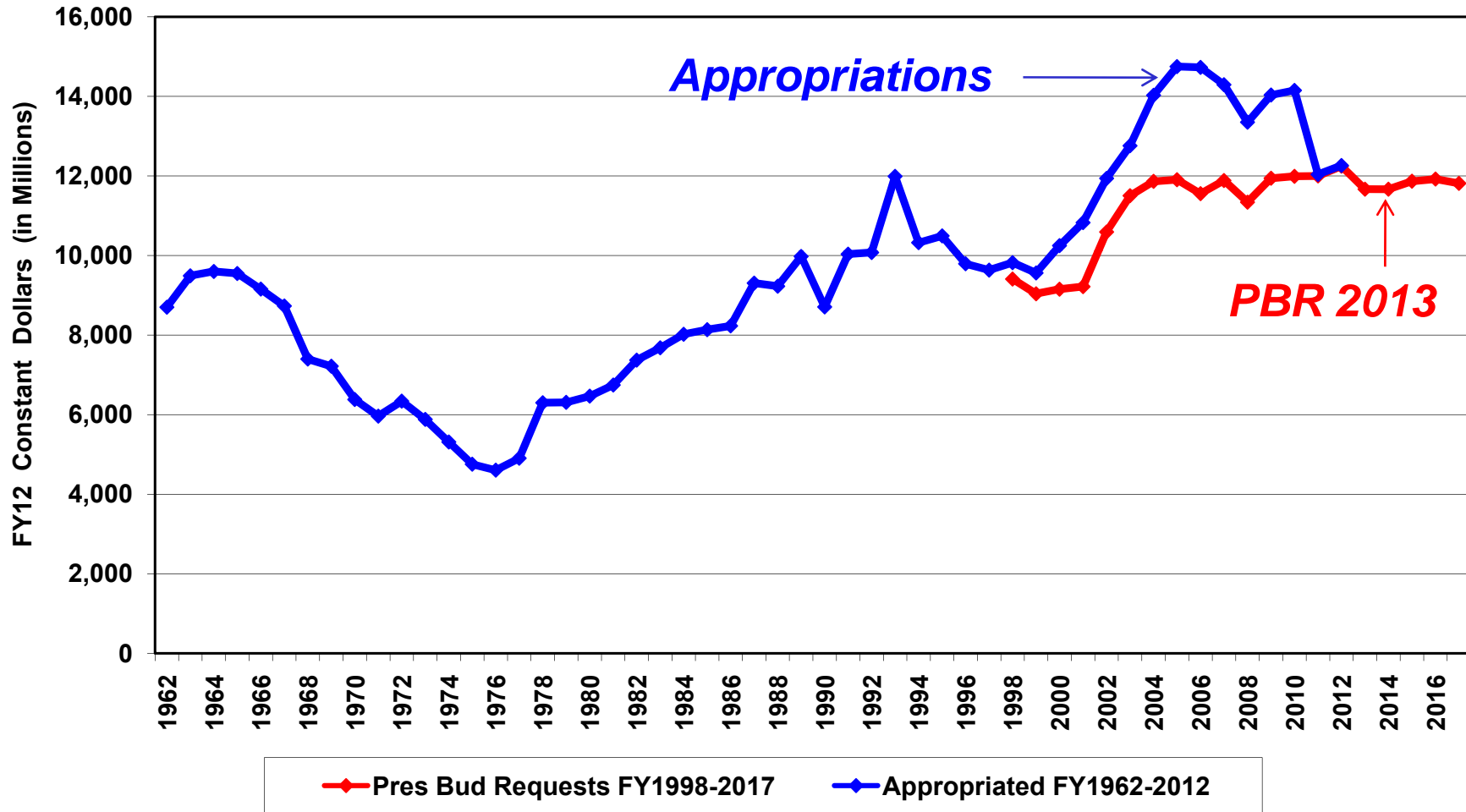
# FY13 Technology Investment Compared to Other DoD Categories





# DoD S&T FUNDING: FY1962-2017

(FY1962-2012 Appropriated, FY1998-2017 President's Budget Request)

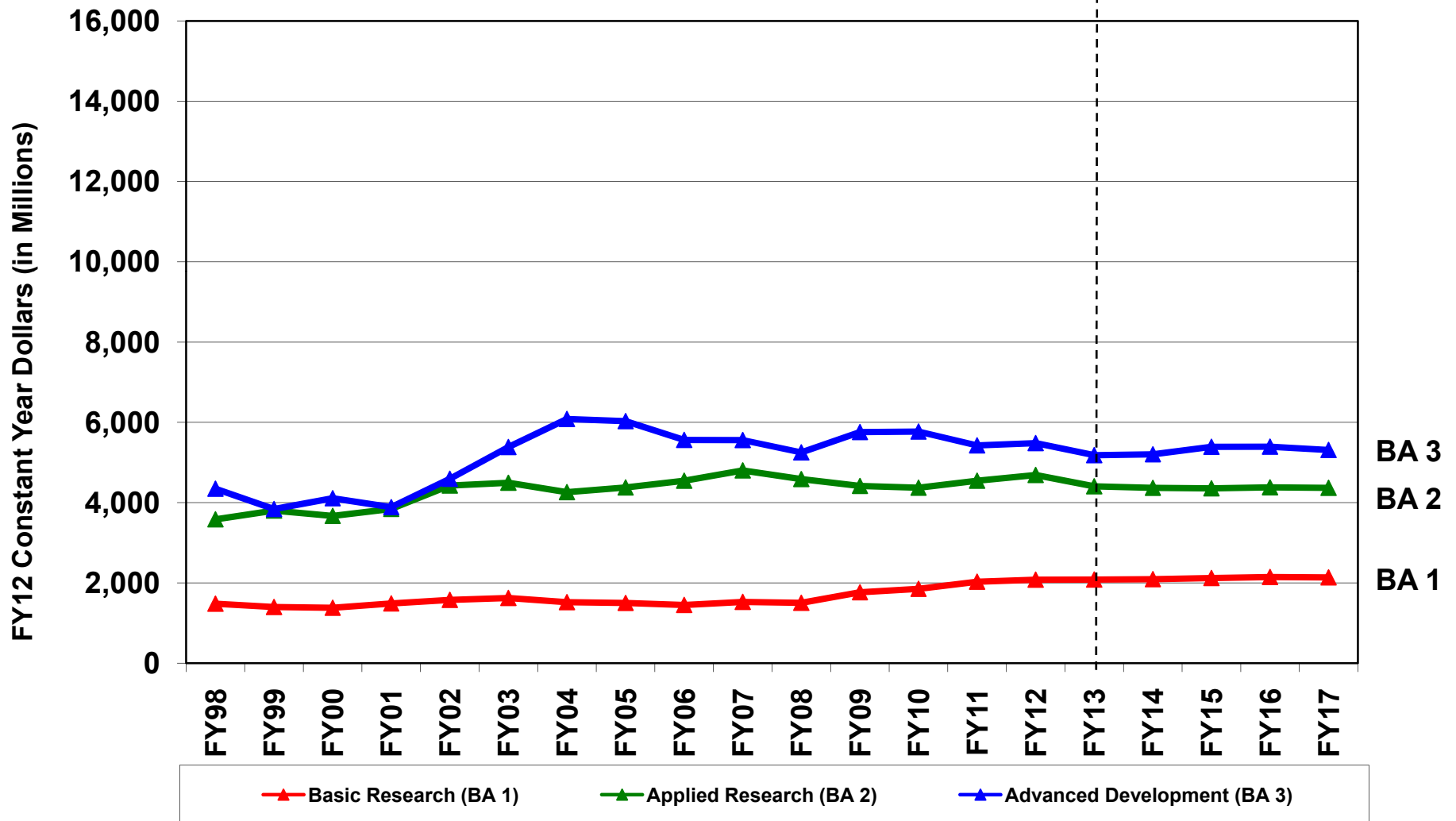






# DoD S&T Funding By Budget Activity

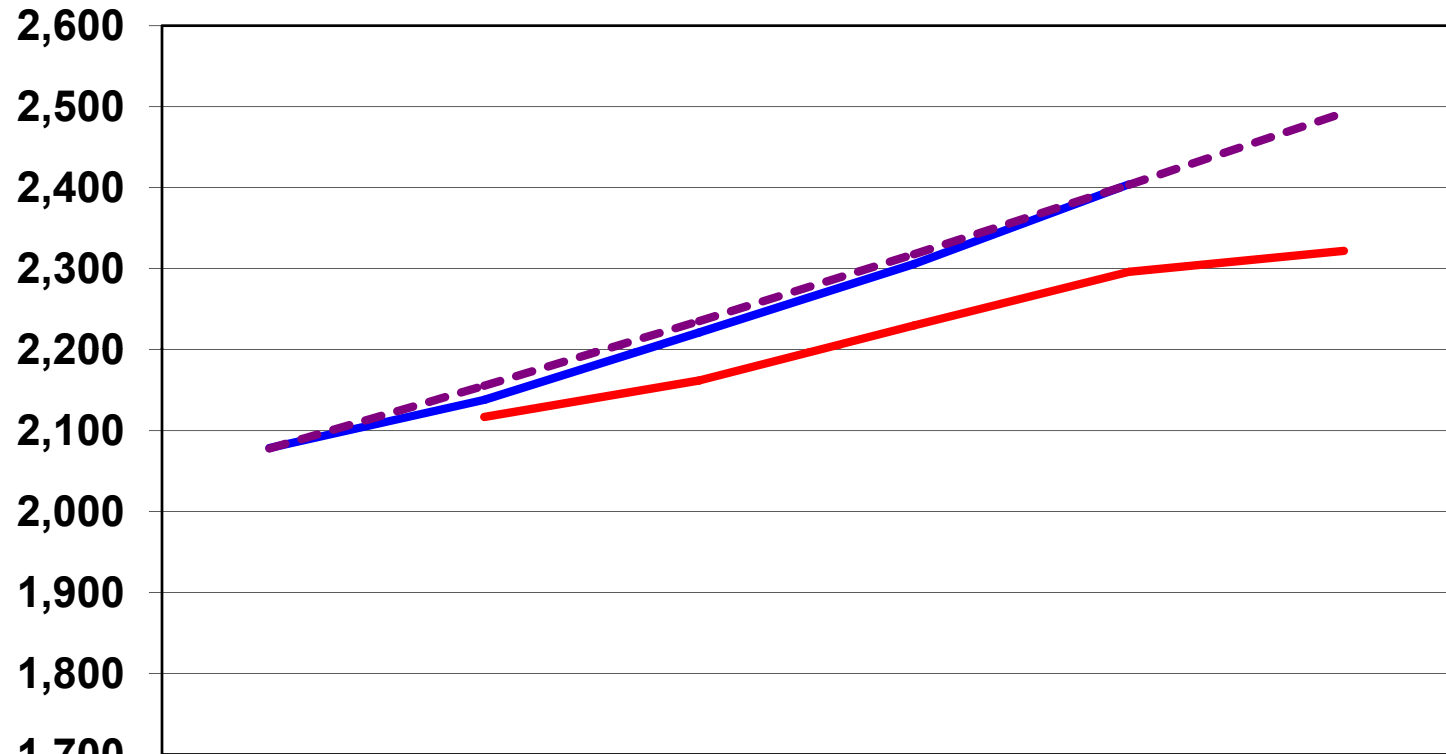
- President's Budget Requests -





# DoD Basic Research

(TY Dollars in Millions)

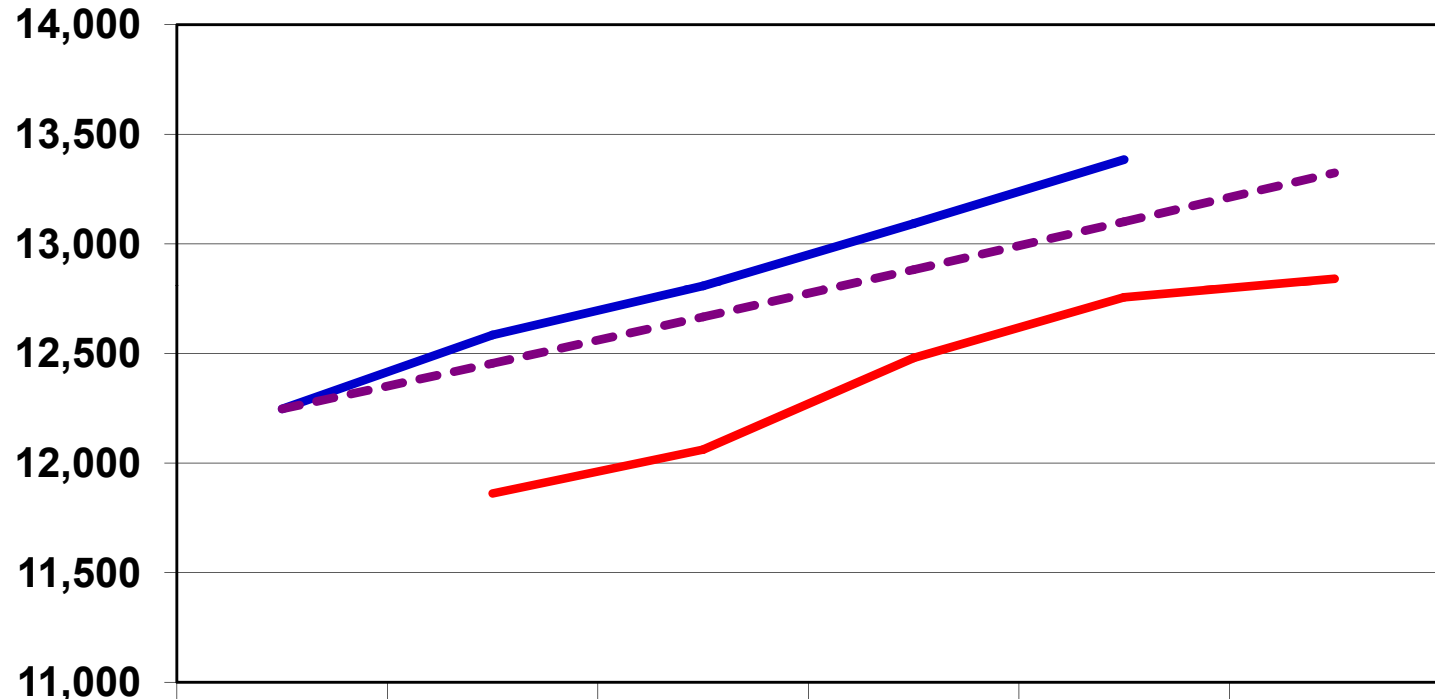


	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017
<span style="color: blue;">—</span> PBR-12	2,078	2,138	2,221	2,306	2,404	
<span style="color: red;">—</span> PBR-13		2,117	2,162	2,230	2,296	2,322
<span style="color: purple;">- - -</span> 2% RPG	2,078	2,155	2,235	2,318	2,404	2,493
$\Delta$ - PBR13 versus PBR12		-21	-59	-76	-108	



# DoD Science & Technology

(TY Dollars in Millions)



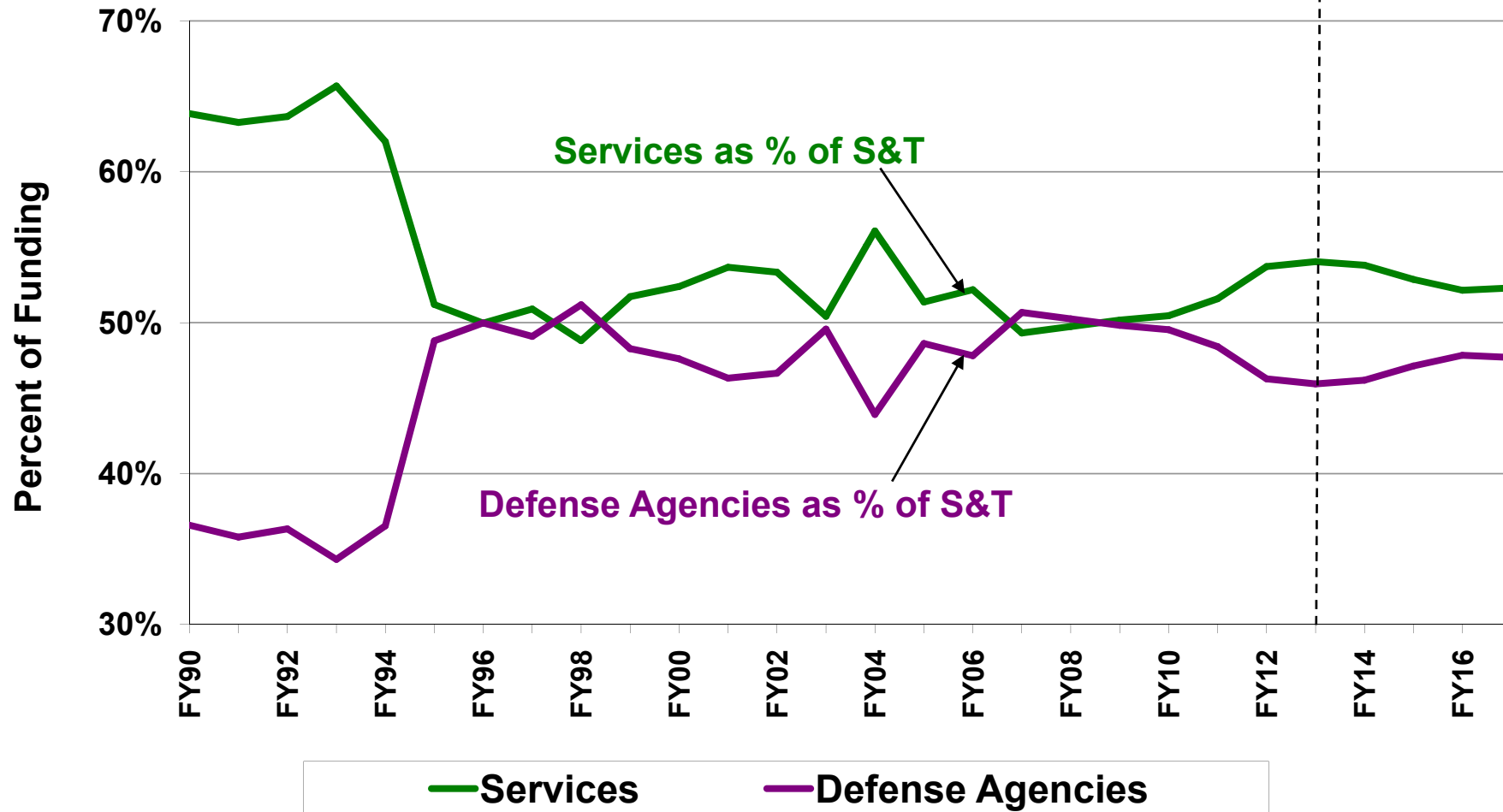
	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017
PBR-12	12,247	12,584	12,808	13,093	13,385	
PBR-13		11,861	12,061	12,479	12,756	12,841
0% RPG	12,247	12,455	12,667	12,882	13,101	13,324
$\Delta$ - PBR13 versus PBR12		-723	-747	-613	-629	



# S&T Breakout

- Services and Defense Agencies as % of Total S&T -

President's Budget Requests





# What's in PB 2013 for S&T



- **FY 2013 Department S&T Top Line of \$11.86B**
  - Approx \$2B for each of the Services and DARPA S&T
- **Funds**
  - for Anti-access / Area-denial capabilities
  - aligned with OMB and OSTP priorities
  - aligned with DoD S&T priorities

## S&T INVESTMENT

### FY13

- **Basic Research (6.1): \$2.1B**
- **Clean energy programs: \$645M**
- **Advanced manufacturing: \$301M**
- **Advanced robotics capability: \$255M**
- **Army medical research: \$173M**
- **Next Generation Turbine Engine – ADVENT : +\$254M in FY13 & FY14**

### Over FYDP

- **Offensive cyber operations: +\$400M**
- **Cyber communications: +\$382M**
- **High Speed Kinetic Strike: +\$353M**
- **Electronic Warfare/Cyber: +\$195M**