



**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 21ST 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

| | |
|-------------------------------|--|
| <p>SECDEF Guidance</p> | <p>Complex Threats</p> <ul style="list-style-type: none"> Electronic Warfare / Electronic Protection Cyber Science and Technology Counter Weapons of Mass Destruction <p>Force Multipliers</p> <ul style="list-style-type: none"> Engineered Resilient Systems Data-to-Decisions Human Systems Autonomy |
|-------------------------------|--|

NSA SEC Conference 10/26/2011/2011

- **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**

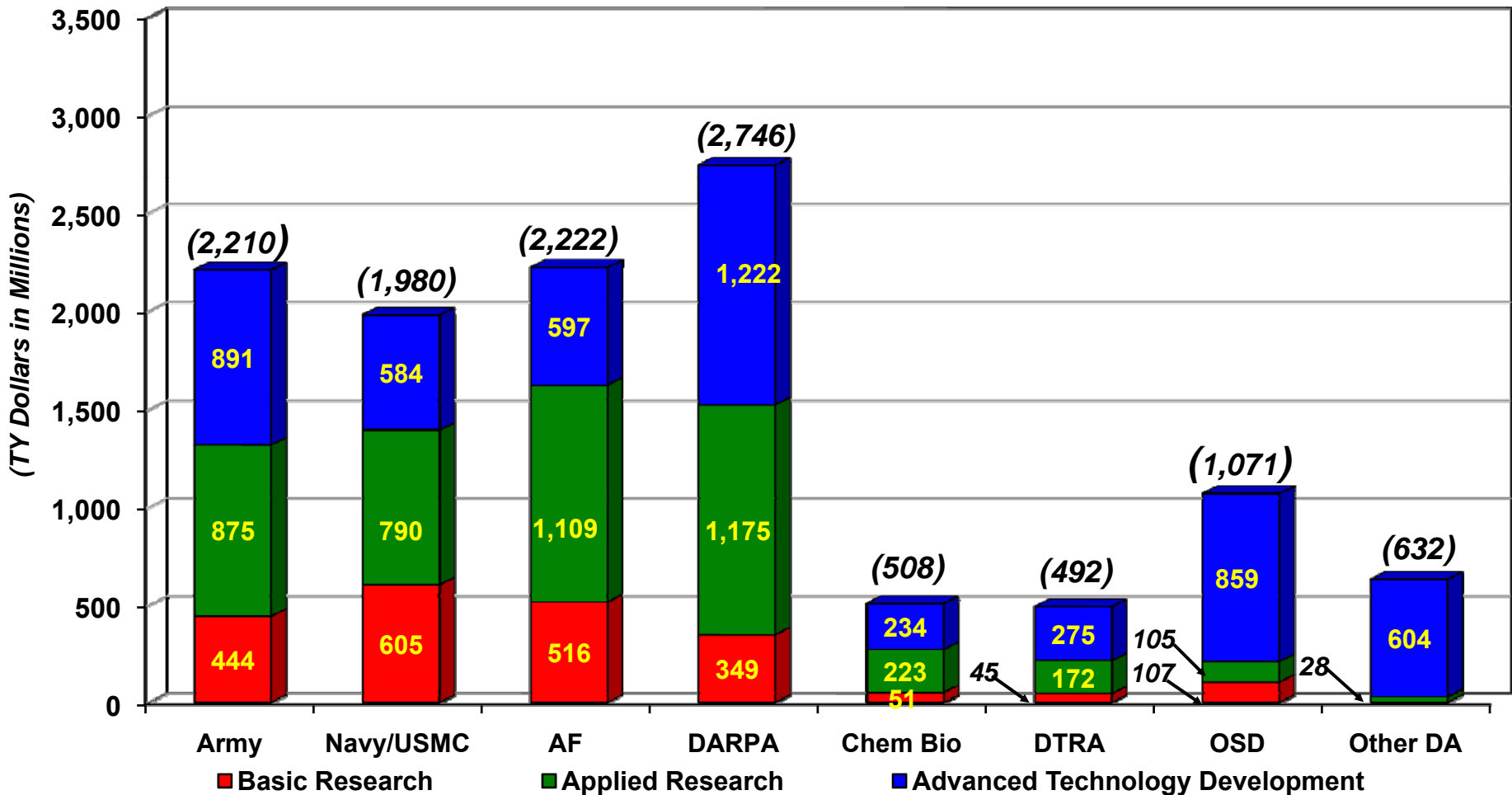


FY13 DoD S&T Budget Request



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

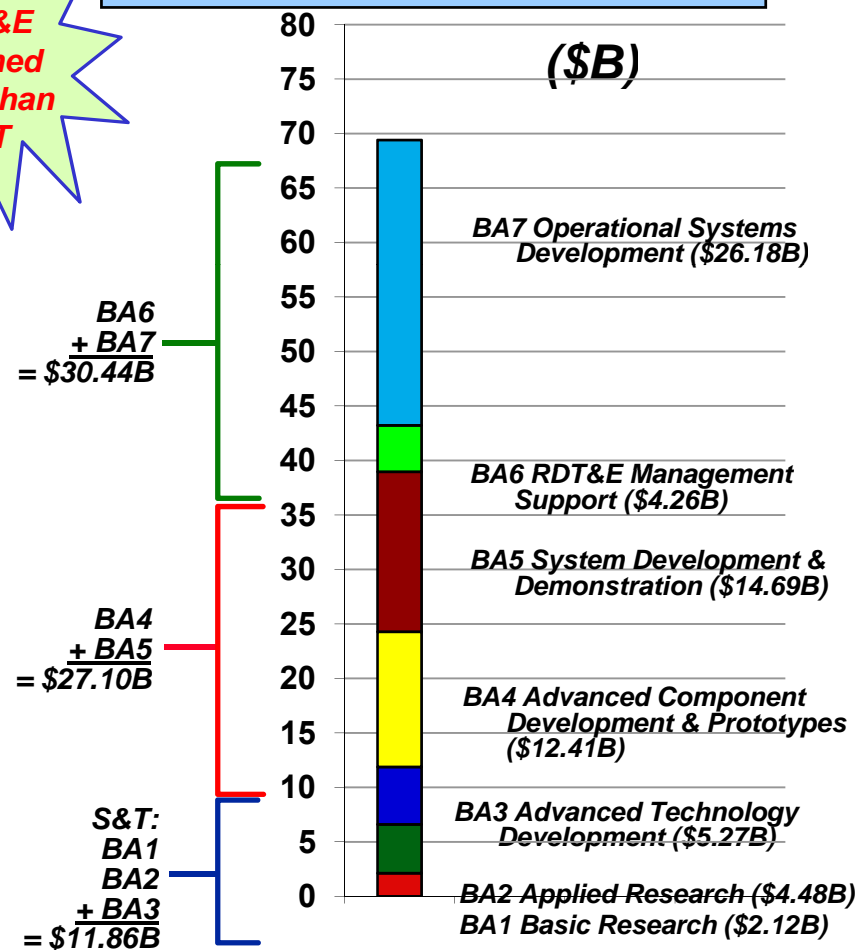
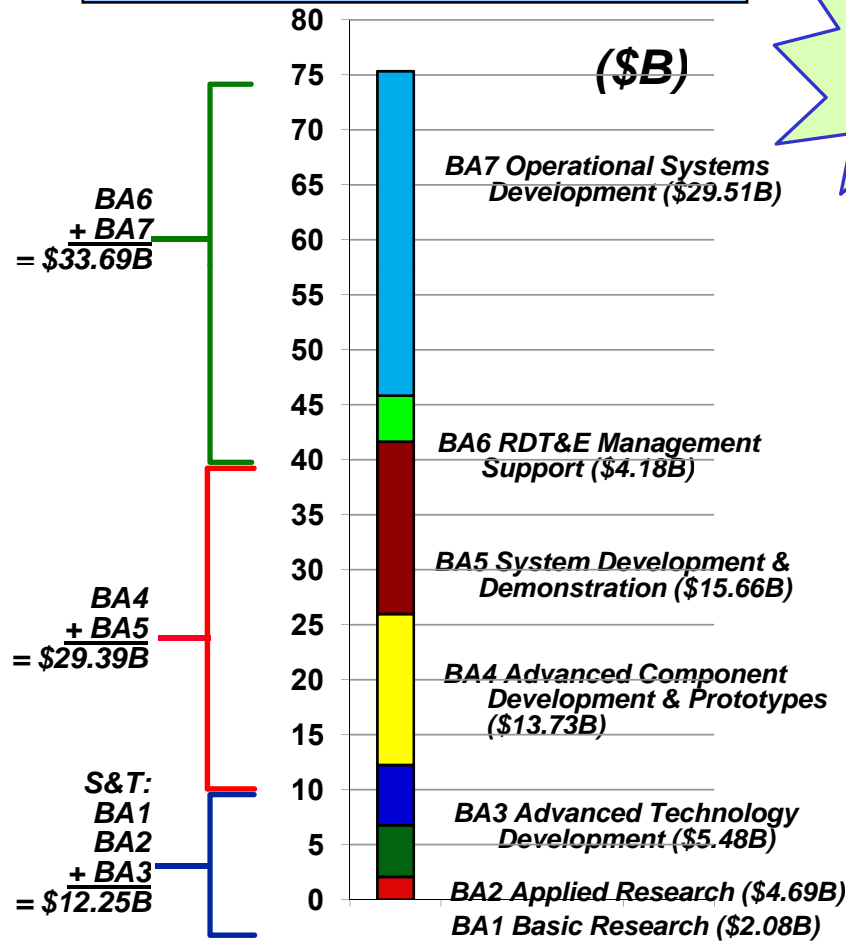
- in Then Year Dollars -



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

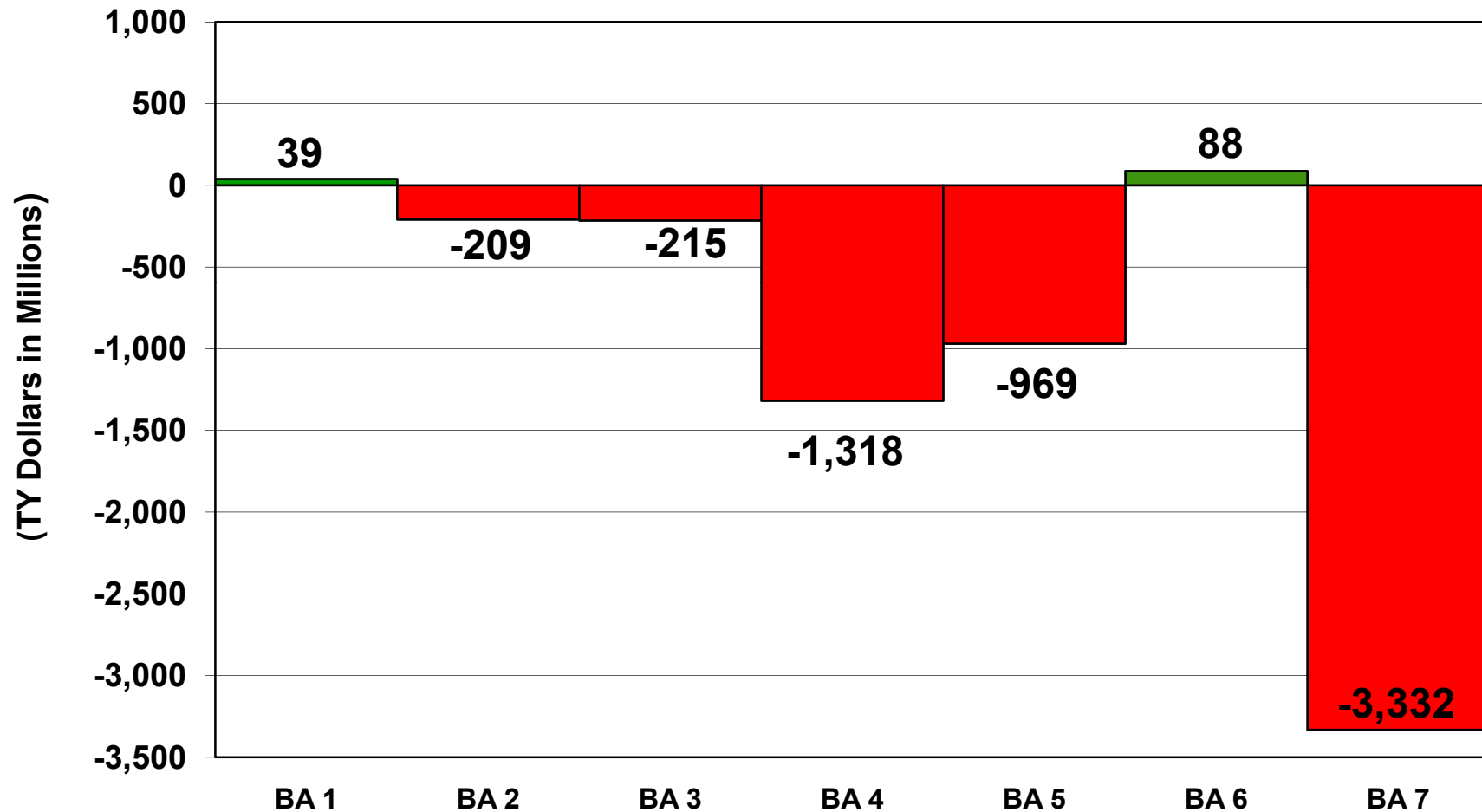
PBR12 S&T is 16.0% of RDT&E

PBR13 S&T is 17.0% of RDT&E



RDT&E Budget Request Overview

- FY12 and FY13 Comparison -





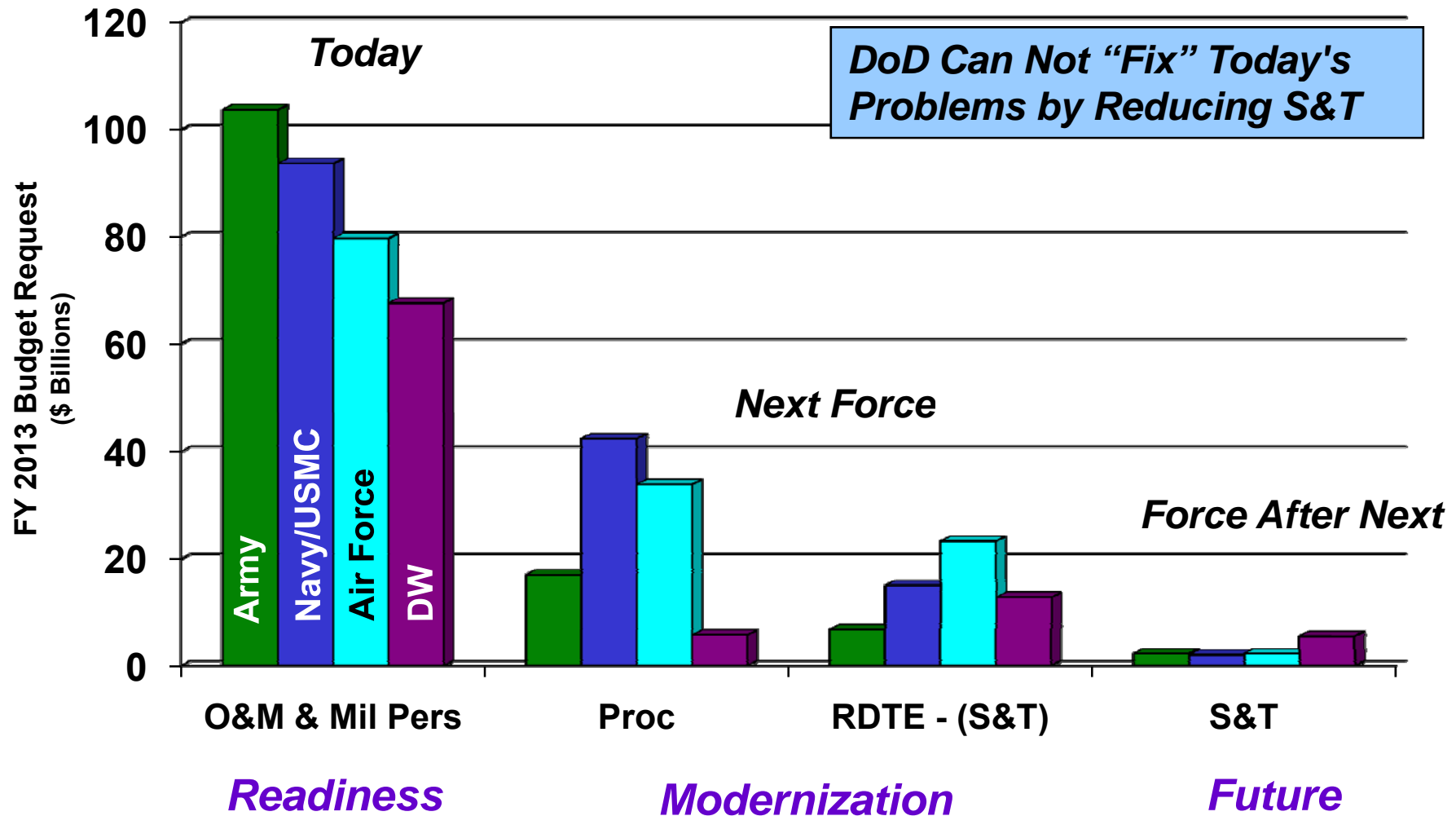
FY13 DoD R&E Budget Request Comparison



| | 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% |
| DoD S&T | 12,247 | 12,263 | 11,861 (11,667) | - 4.73% |
| Advanced Component Development and Prototypes (BA 4) | 13,727 | 13,462 | 12,409 (12,206) | -11.08% |
| DoD R&E (BAs 1 – 4) | 25,974 | 25,725 | 24,270 (23,873) | -8.09% |
| DoD Topline | 553,941 | 650,589 | 525,449 (515,096) | -7.01% |



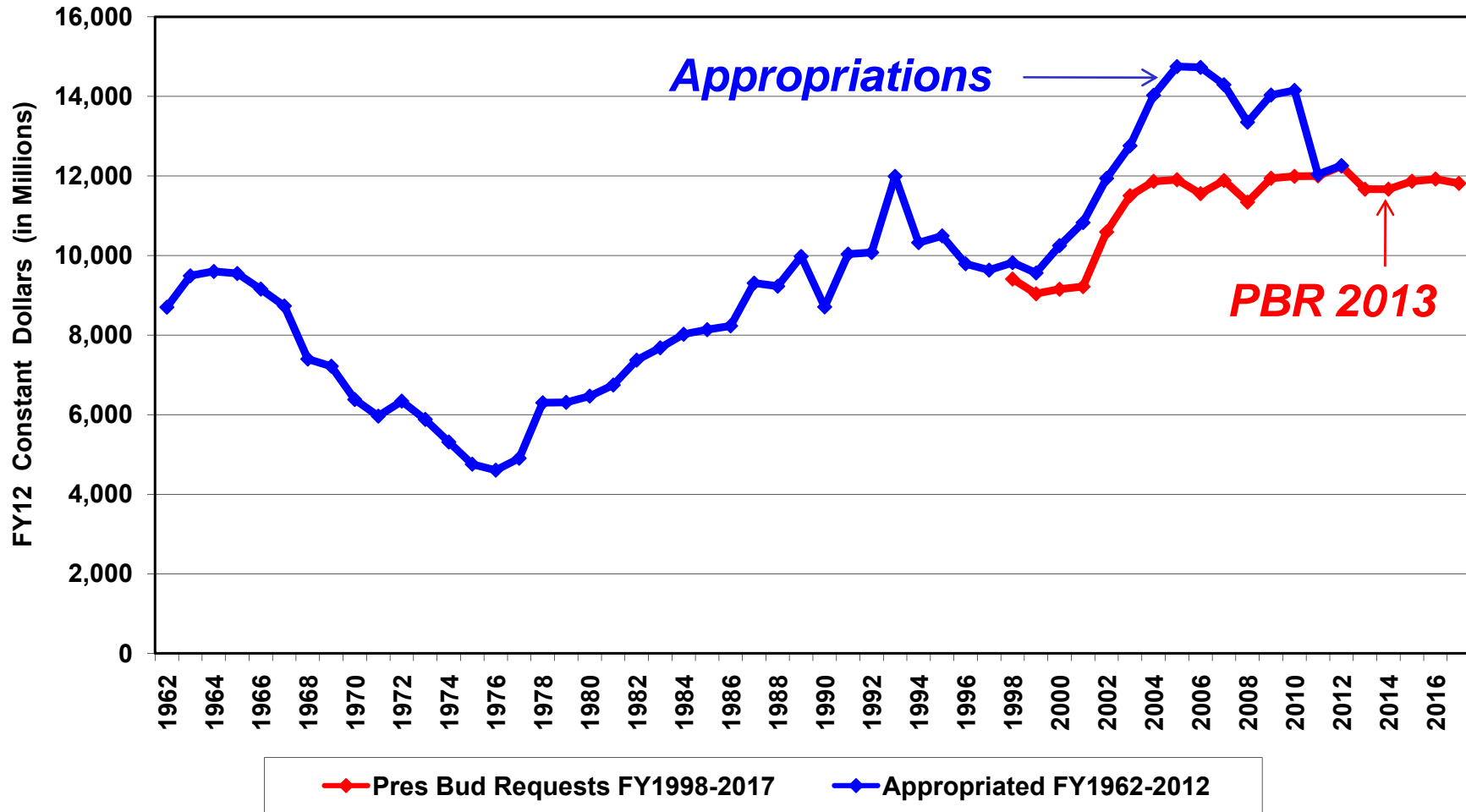
FY13 Technology Investment Compared to Other DoD Categories





DoD S&T FUNDING: FY1962-2017

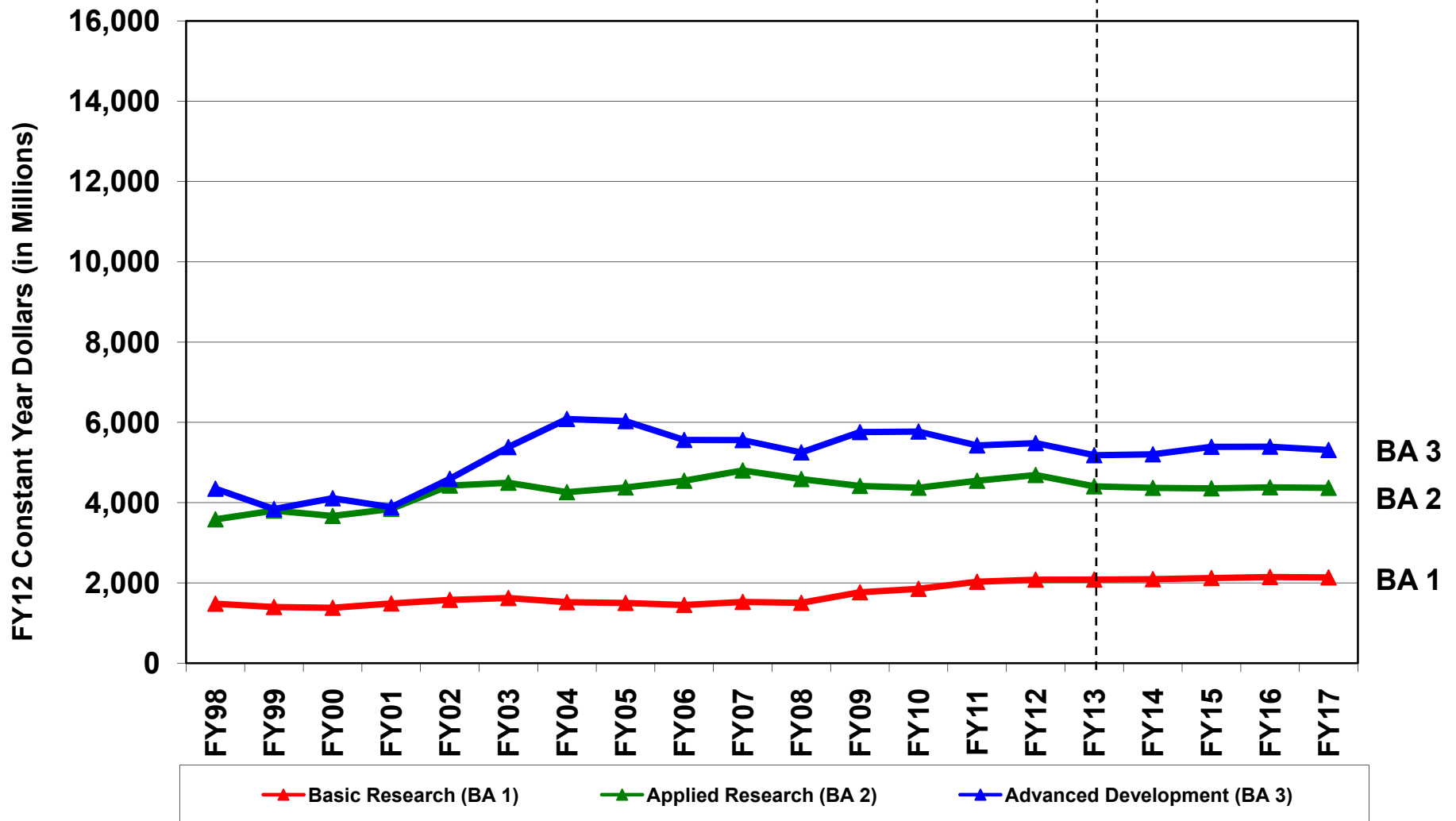
(FY1962-2012 Appropriated, FY1998-2017 President's Budget Request)





DoD S&T Funding By Budget Activity

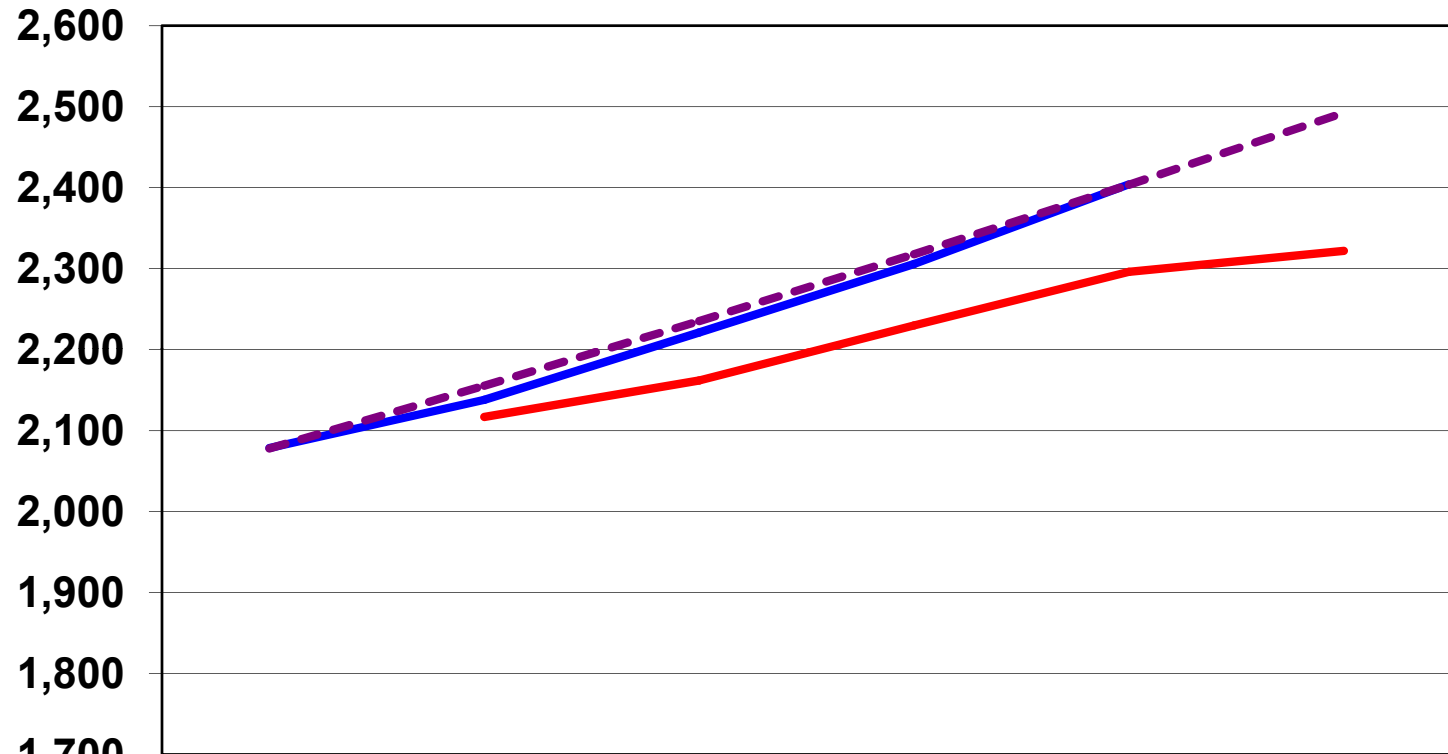
- President's Budget Requests -





DoD Basic Research

(TY Dollars in Millions)

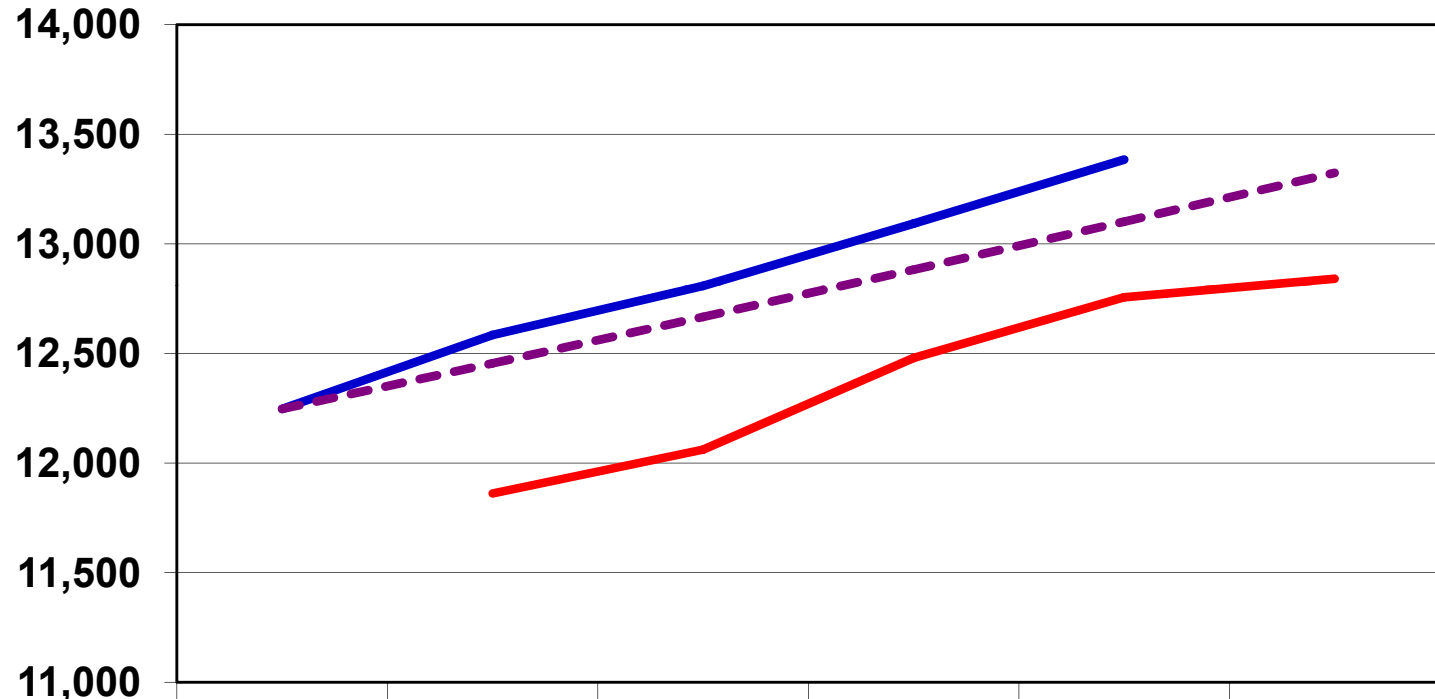


| | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 |
|--|--------|--------|--------|--------|--------|--------|
| — PBR-12 | 2,078 | 2,138 | 2,221 | 2,306 | 2,404 | |
| — PBR-13 | | 2,117 | 2,162 | 2,230 | 2,296 | 2,322 |
| - - - 2% RPG | 2,078 | 2,155 | 2,235 | 2,318 | 2,404 | 2,493 |
| Δ - PBR13 versus PBR12 | | -21 | -59 | -76 | -108 | |



DoD Science & Technology

(TY Dollars in Millions)



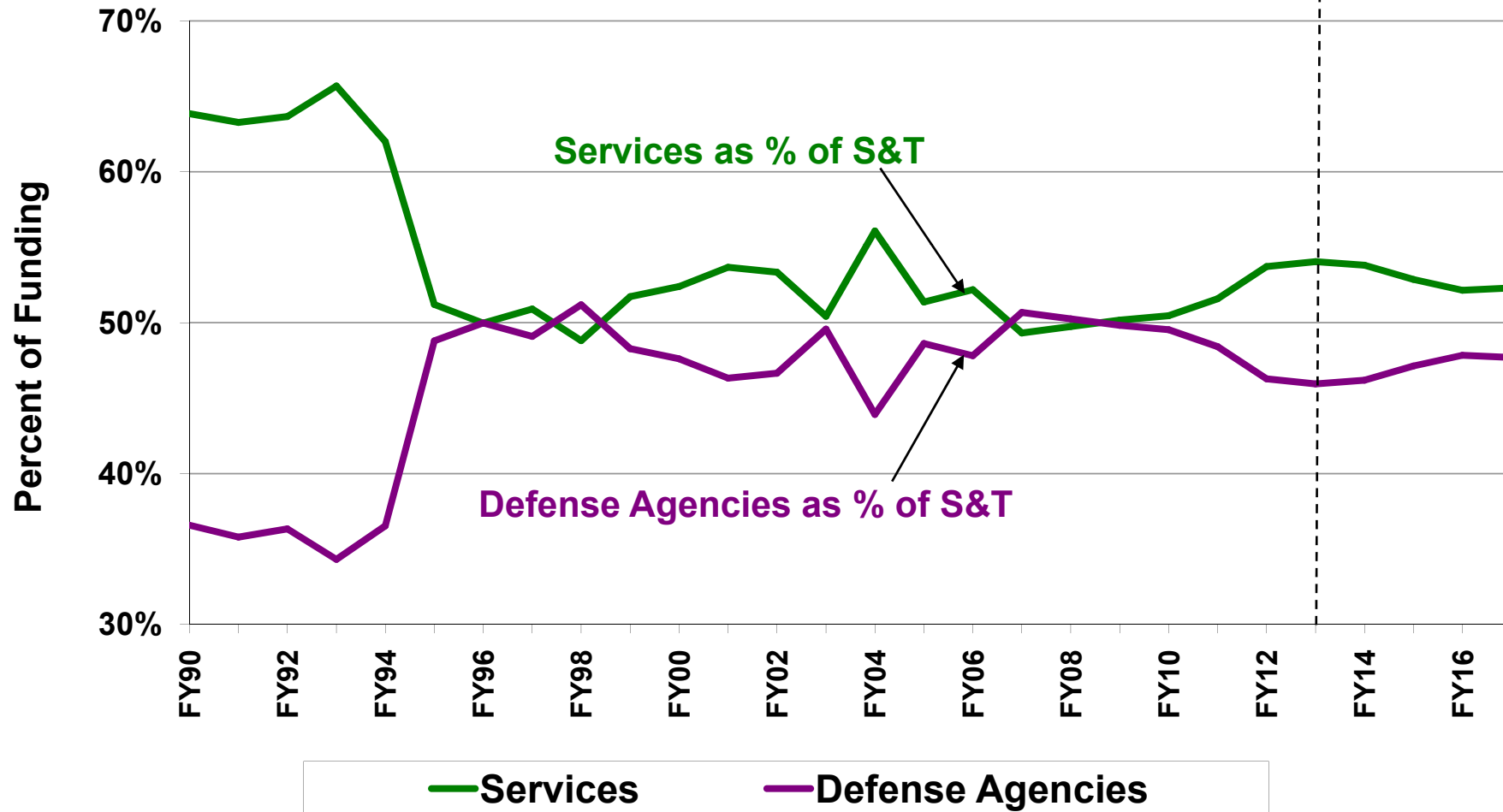
| | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 |
|-------------------------------|--------|--------|--------|--------|--------|--------|
| PBR-12 | 12,247 | 12,584 | 12,808 | 13,093 | 13,385 | |
| PBR-13 | | 11,861 | 12,061 | 12,479 | 12,756 | 12,841 |
| 0% RPG | 12,247 | 12,455 | 12,667 | 12,882 | 13,101 | 13,324 |
| Δ - 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**