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

Mr. Bob Baker
Deputy Director, Plans & Programs,
Assistant Secretary of Defense (Research & Engineering)
Building the Department’s Technical Foundation

Guidance

Primary Missions

S&T Focus Areas

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

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-Decision
- 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

PBR12 S&T is 16.0% of RDT&E

Technology Base (BA1 + BA2) = $6.59B

PBR13 S&T is 17.0% of RDT&E
RDT&E Budget Request Overview
- FY12 and FY13 Comparison -
<table>
<thead>
<tr>
<th></th>
<th>FY12 PBR</th>
<th>FY12 Approp</th>
<th>FY13 PB (Constant Year FY12)</th>
<th>Real Change from PBR 12 (In CY $)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Basic Research (BA 1)</strong></td>
<td>2,078</td>
<td>2,112</td>
<td>2,117 (2,082)</td>
<td>+0.18%</td>
</tr>
<tr>
<td><strong>Applied Research (BA 2)</strong></td>
<td>4,687</td>
<td>4,739</td>
<td>4,477 (4,405)</td>
<td>-6.03%</td>
</tr>
<tr>
<td><strong>Advanced Technology Development (BA 3)</strong></td>
<td>5,481</td>
<td>5,411</td>
<td>5,266 (5,180)</td>
<td>-5.49%</td>
</tr>
<tr>
<td><strong>DoD S&amp;T</strong></td>
<td>12,247</td>
<td>12,263</td>
<td>11,861 (11,667)</td>
<td>-4.73%</td>
</tr>
<tr>
<td><strong>Advanced Component Development and Prototypes (BA 4)</strong></td>
<td>13,727</td>
<td>13,462</td>
<td>12,409 (12,206)</td>
<td>-11.08%</td>
</tr>
<tr>
<td><strong>DoD R&amp;E (BAs 1 – 4)</strong></td>
<td>25,974</td>
<td>25,725</td>
<td>24,270 (23,873)</td>
<td>-8.09%</td>
</tr>
<tr>
<td><strong>DoD Topline</strong></td>
<td>553,941</td>
<td>650,589</td>
<td>525,449 (515,096)</td>
<td>-7.01%</td>
</tr>
</tbody>
</table>
FY13 Technology Investment Compared to Other DoD Categories

DoD Can Not “Fix” Today's Problems by Reducing S&T

FY 2013 Budget Request ($ Billions)

Today

Next Force

Force After Next

O&M & Mil Pers
Proc
RDTE - (S&T)
S&T

Readiness
Modernization
Future

Army
Navy/USMC
Air Force
DW
DoD Basic Research
(TY Dollars in Millions)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PBR-12</td>
<td>2,078</td>
<td>2,138</td>
<td>2,221</td>
<td>2,306</td>
<td>2,404</td>
</tr>
<tr>
<td>PBR-13</td>
<td>2,117</td>
<td>2,162</td>
<td>2,230</td>
<td>2,296</td>
<td>2,322</td>
</tr>
<tr>
<td>2% RPG</td>
<td>2,078</td>
<td>2,155</td>
<td>2,235</td>
<td>2,318</td>
<td>2,404</td>
</tr>
</tbody>
</table>

Δ - PBR13 versus PBR12
-21 -59 -76 -108
S&T Breakout
- Services and Defense Agencies as % of Total S&T -

President's Budget Requests

Percent of Funding

FY90 FY92 FY94 FY96 FY98 FY00 FY02 FY04 FY06 FY08 FY10 FY12 FY14 FY16

Services as % of S&T

Defense Agencies as % of S&T

Services
Defense Agencies
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**

<table>
<thead>
<tr>
<th>FY13</th>
<th>Over FYDP</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Basic Research (6.1): $2.1B</td>
<td>• Offensive cyber operations: +$400M</td>
</tr>
<tr>
<td>• Clean energy programs: $645M</td>
<td>• Cyber communications: +$382M</td>
</tr>
<tr>
<td>• Advanced manufacturing: $301M</td>
<td>• High Speed Kinetic Strike: +$353M</td>
</tr>
<tr>
<td>• Advanced robotics capability: $255M</td>
<td>• Electronic Warfare/Cyber: +$195M</td>
</tr>
<tr>
<td>• Army medical research: $173M</td>
<td></td>
</tr>
<tr>
<td>• Next Generation Turbine Engine – ADVENT: +$254M in FY13 &amp; FY14</td>
<td></td>
</tr>
</tbody>
</table>