

# Army Science and Technology Overview

*NDIA 9th Annual Disruptive Technologies Conference*

*“Superior Capability for the Global Commons”*

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Approved for Public Release

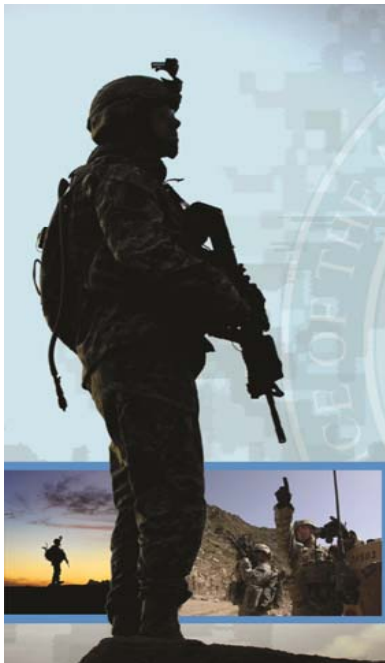


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# Our Mission



***Design, develop, deliver and sustain products and services to enable our Soldiers to dominate the battlefield today and tomorrow.***

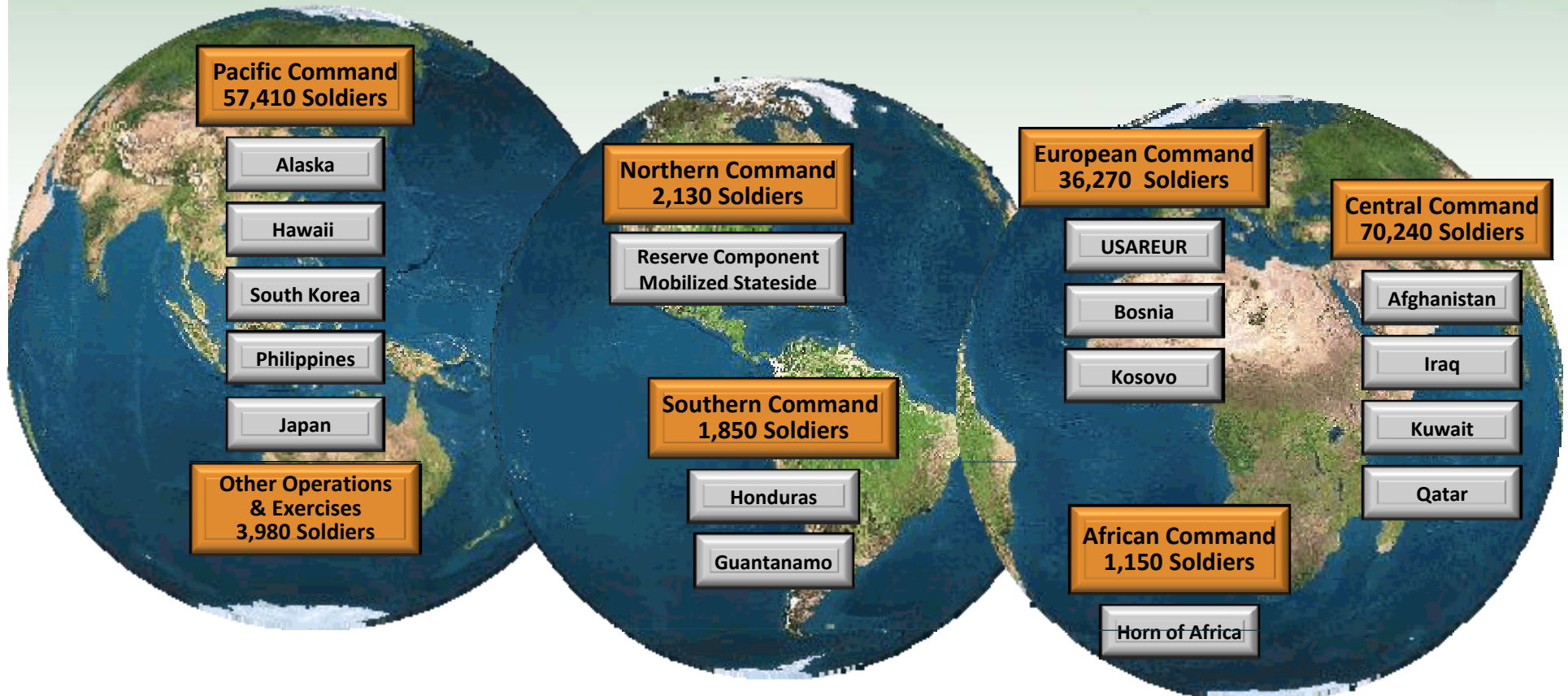


*Image Source: US Army Flickr and Tom Clancy's Ghost Recon Future Soldier*



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# The U.S. Army Must Remain Prepared for Worldwide Operations



173,670 Soldiers deployed or forward stationed in nearly 165 countries overseas



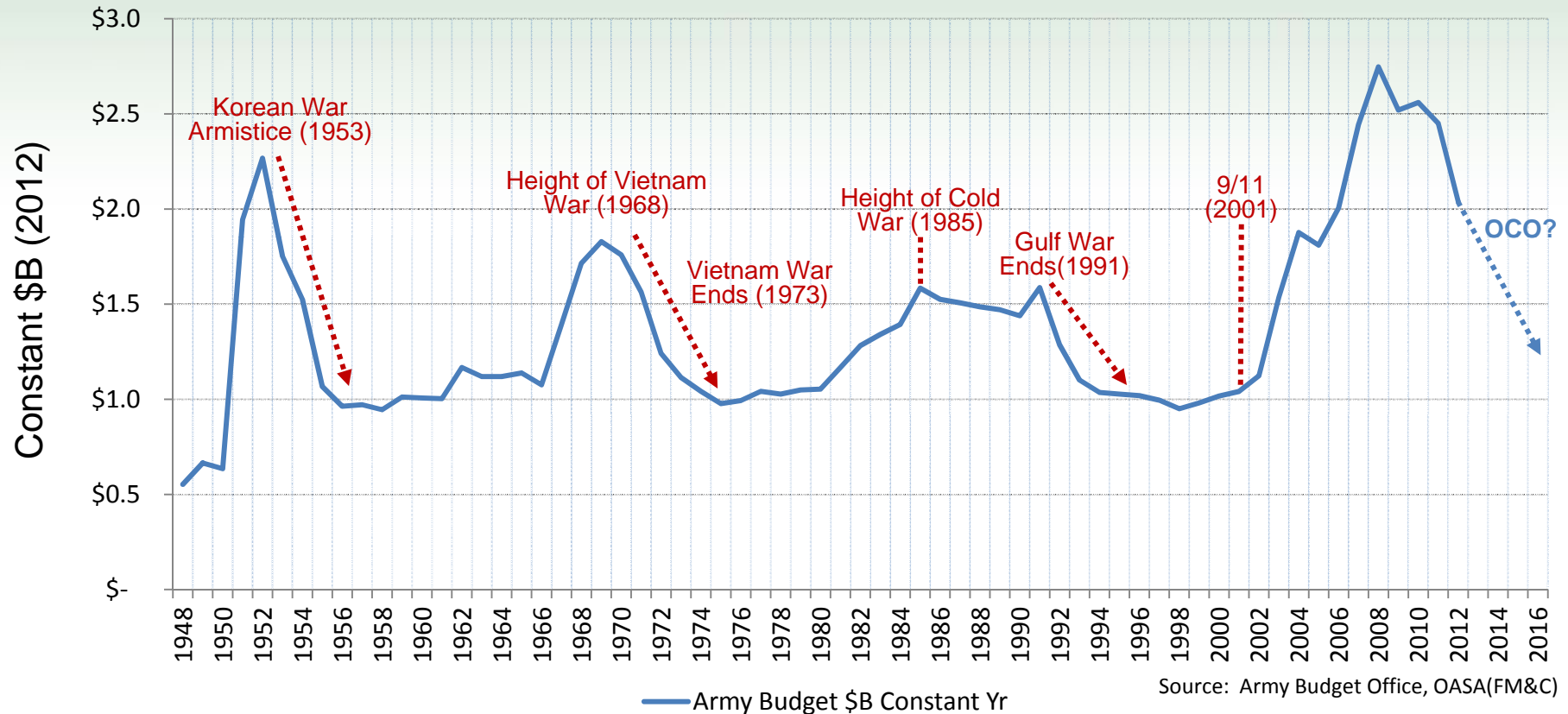
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# U.S. Army's Historical Budget



## U.S. DoD National Defense Budget Estimates for FY2012

### Army Budget \$B Constant Yr



***Army S&T – remains an important priority in this budget environment***

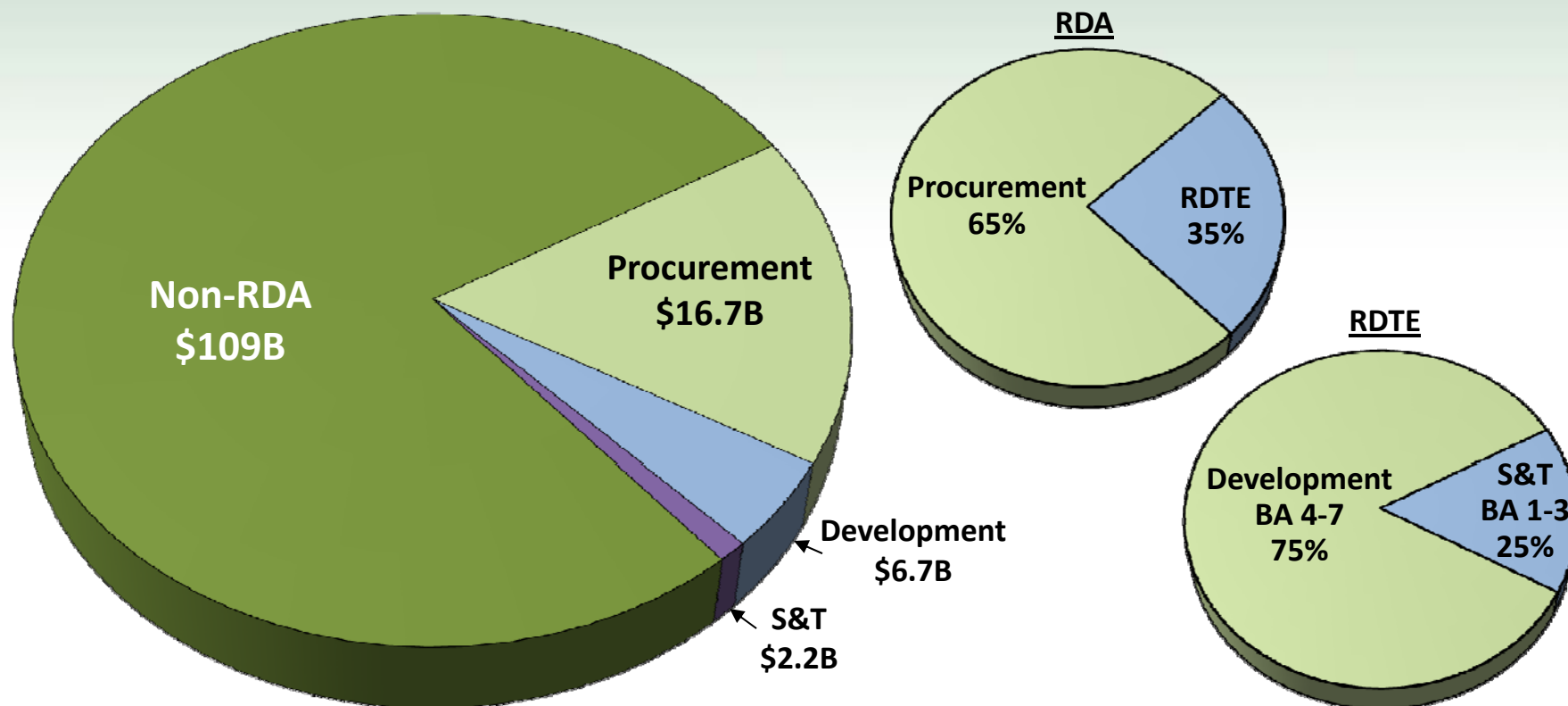


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# S&T Funding in Perspective

## Army Investments Break-out PBR13



S&T funding: \$2.3B in FY12  
\$2.2B in FY13 (-\$75M)

S&T funding expected to remain stable and at or about 25% of RDT&E over the POM



# Army S&T Approach



- We are aligning our S&T investments and developing a modernization plan that will create S&T insertion opportunities for Programs of Record
- We are investing our S&T where we must (i.e., Army-specific areas), and leverage where we can -- from industry, other Services, Federally Funded Research Development Centers, National Labs, academia, and international partners
- We will concentrate basic research on potentially high-payoff science with a unique Army nexus looking at the world beyond 2030+
- We are looking to harness investments in technologies that reduce operational and sustainment costs, increase combat readiness, and increase reliability

***Army S&T has a responsibility to lay the foundation for Army's technology needs that drive future capabilities***



# Army's Modernization Challenges



- Greater **force protection (Soldier, vehicle, base)** to ensure survivability across all operations
- Ease **overburdened** Soldiers in Small Units
- Timely **mission command & tactical intelligence** to provide situation awareness and communications in all environments
- Reduce logistic burden of **storing, transporting, distributing** and **retrograde** of materials
- Create **operational overmatch** (enhanced lethality and accuracy)
- Achieve operational **maneuverability** in all environments and at **high operational tempo**
- Enable ability to **operate in CBNRE environment**
- Improve **early detection of Traumatic Brain Injury (TBI)**
- Improve **operational energy**
- Improve **individual & team training**
- **Reduce lifecycle cost** of future Army capabilities



# Army Counter Anti-Access/Area Denial



## Strategic Priority:

- Enhance Army's ability to conduct operations in contested environments (Anti-Access/Area Denial) against a more capable (near-peer) enemy

## Ongoing effort:

- Conducting analysis based on emerging threats and existing Army Programs of Record to identify out-year strengths and weaknesses to prioritize and focus S&T investments





# Summary



- **The Army will continue to have a large role consistent with DoD 21st Century Defense Guidance**
- **We will continue to have missions around the globe that require Soldiers to be equipped with the best technology to prevent, shape and win decisively**
- **The Army must conduct operations in Anti-Access/Area Denial contested environments**

**Our job is to provide and maintain the leading edge in technology for the Army**



# *Army Science & Technology*



*Providing Soldiers Technology Enabled Capabilities*

**MAINTAINING A LEADING EDGE IN TECHNOLOGY**