



Department of the Navy Research & Development

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Understanding the Strategic Environment

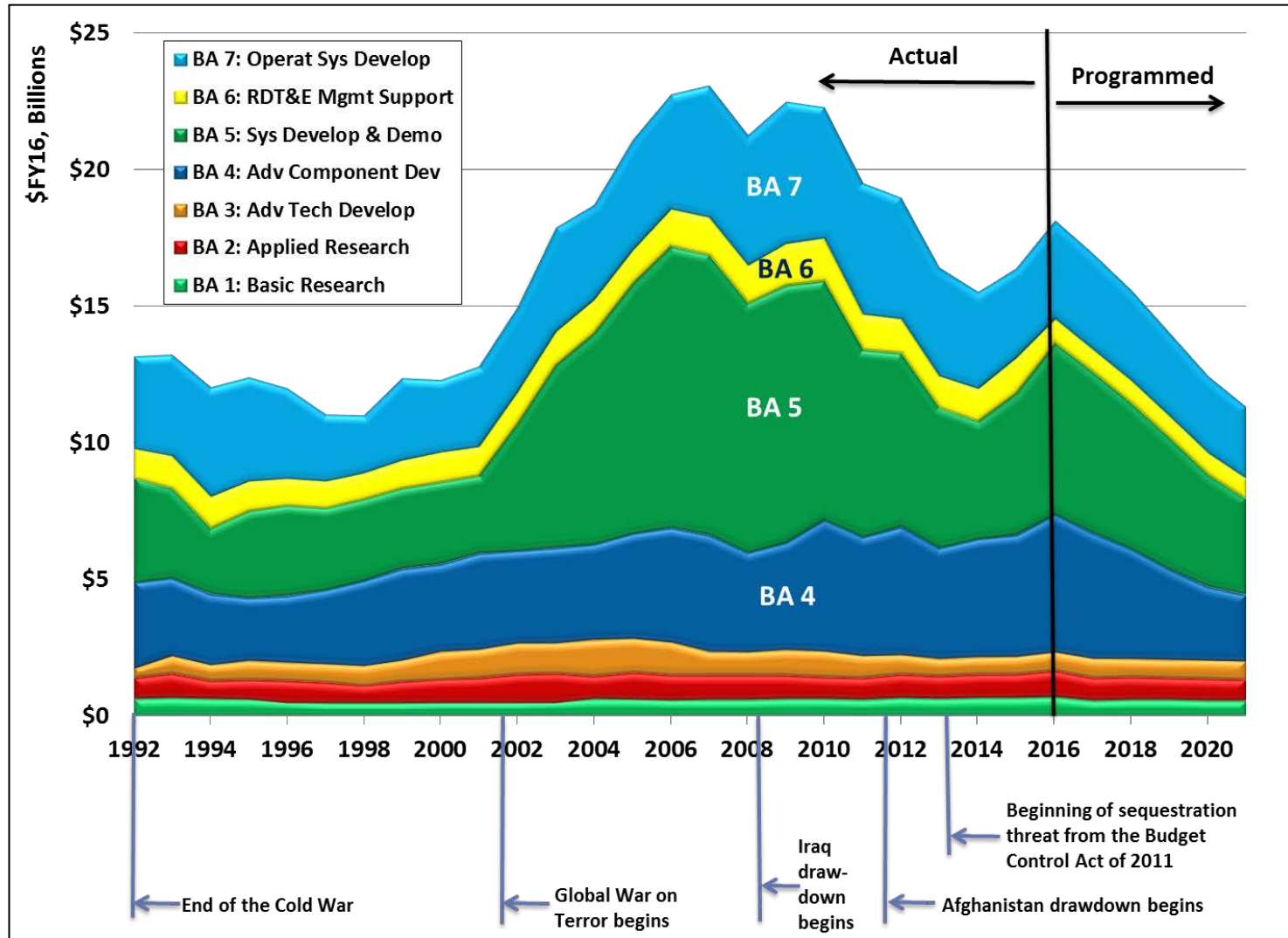


- Navy Mission Expanding: State-sponsored Aggression, Territorial Disputes, Contested Access, Global War on Terror, Organized Crime, Opening of the Arctic, Climate Change, Maritime Trade, Water & Food Access, Energy Exploration & Shipping, Undersea Communication Conduits, and WMD Proliferation
- Increasingly Complex and Sophisticated Systems Design and Development
- Developing NR&DE Talent is Increasingly Critical to Pace the Threats
- DON RDT&E Resources & Infrastructure Investments Facing New Pressures
- Global Technology Development is Accelerating Rapidly and is the Major Source of Both Emerging Threats and Enabling Opportunities

Places DON RDT&E Emphasis on Learning, Innovating, and Collaborating



DON RDTE Budgetary Perspective





Overarching Strategies



1. Accelerate the development of promising engineering, scientific, and technology innovations, including those developed by other services, commercial industry, allies, and partners.
2. Employ prototyping, experimentation, and demonstration to fast-track the development and fielding of maturing technologies and engineering innovations to address fleet/force needs and priorities, outpace emergent threats, and rapidly introduce technologically superior capabilities.
3. Align RDT&E funding to ensure continuous and sustained progression from technology development to system delivery.
4. Engage industry and small business with continuing access to DON needs and plans to increase collaboration and enable robust competition.



Priority Focus Areas



- Data Analytics & Machine Learning
- Autonomous Systems and Human/Machine Teaming
- Advanced Computing and Artificial Intelligence
- Advanced Materials & Manufacturing
- Nano/Meta-Materials
- Digital Warfighting
- Advanced Power and Energy Technologies
- 3D Virtualized Immersive Training and Game Technologies
- "Digital Thread" inc. M&S, PLM & 3D Data



Advanced Naval Technology Exercises

ADVANCED NAVAL TECHNOLOGY EXERCISE

2017

Advanced Naval Technology Exercises (ANTX) are a series of exercises where industry, academia, and the Naval Research and Development Establishment (NR&DE) are invited to demonstrate emerging tech/engineering innovations that address priority USN and USMC missions.