



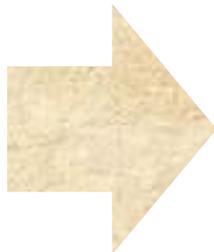
Comparative Technology: What We Do

Foreign Comparative Testing (FCT) Defense Acquisition Challenge (DAC)



• Find & Assess “Here & Now” Solutions

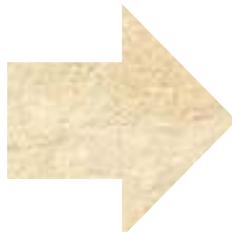
- ✓ Projects begin within a year, end within 18-24 months after contract award
- ✓ Evaluation at U.S. or foreign ranges
- ✓ Project value: Range of \$200K - \$2M
 - Average of \$800K



Mission: Rapidly Find, Assess & Field World-Class Products for Enhanced Military Capabilities

• Supported by DoD Acquisition Policy

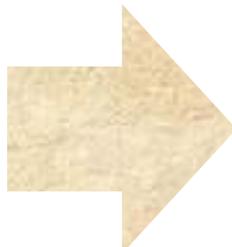
- ✓ Armaments Cooperation
- ✓ Evaluation of Domestic & Allied Technology



- FCT: 10 USC 2350a(g) - Determine ability of NATO & friendly foreign countries to satisfy U.S. requirements or operational deficiencies
- DAC: 10 USC 2359b - Increase innovation & cost-saving technologies for insertion into current DoD acquisition programs

• Office of Secretary of Defense (OSD) Selects & Funds Projects

- ✓ Clear Goal: “Assess, Procure & Field Capabilities”
- ✓ Focus on mature technologies (COTS)
- ✓ Whenever possible: Side-by-Side Competitive Evaluation

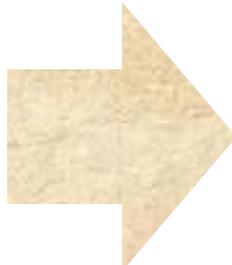


Technology Readiness Level (TRL)

- TRL 7: System prototype demo in an operational environment
- TRL 8: Actual system completed & 'qualified' through test & demo

• Services & USSOCOM Execute

- ✓ Nominate mature military or commercial products
- ✓ Conduct assessments & fielding



In 2012 we are funding-

- FCT: 12 continuing projects, 9 new starts
- DAC: No continuing projects, 10-15 new starts



DAC: Title 10 Provisions



- **Established by Congress in 2003 - - 10 USC 2359b**
- **“Increased introduction of innovative and cost-saving technologies into current acquisition programs of the DoD”**
- **“Any person or activity within or outside the DoD to**
 - **Propose alternatives, to be known as challenge proposals at the component, subsystem, or system level of an existing DoD acquisition program ...**
 - **that result in improvements in performance, affordability, manufacturability, or operational capability of that acquisition program”**



DAC: Fiscal Year 2012

- **Funding -**

- No budget requested by the Department
 - Zeroed to support “defense efficiencies”
- Congress appropriated \$25 million

- **Proposal Process -**

- Pre-solicitation: 3 February 2012
- BAA released 17 February, closes 23 March 2012
 - <https://www.fbo.gov/spg/ODA/WHS/REF/DAC-FY12-BAA0001/listing.html>
 - Requests proposals to 40 operational topics, e.g.
 - Hostile Fire / Aircrew Protection
 - Cyber Defense
 - Countering Anti-Access & Area Denial
 - Blue Force / Red Force Battlefield Tracking
 - Fast Craft “Swarm” Protection
 - Detection of Low Observables
 - Standoff Suicide Bomber Detection
 - Enhanced Lightweight Soldier Protection



DAC Proposal & Selection 2012 Timeline

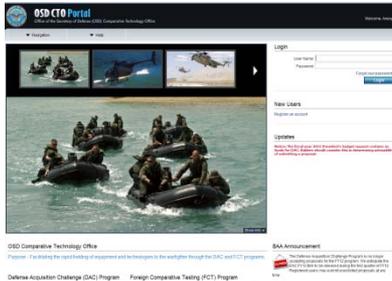


BAA



**DAC Broad Area
Announcement
(BAA)
(Feb)**

**Domestic Industry
submit DAC
Proposal via the
OSD CTO Portal
(March)**



**Service/SOCOM
Review: U.S.
Acquisition
Program Manager
Technical Review
and Acceptance
(April-May)**

**Service & SOCOM
Proposal Review Boards**



**Proposals that address needs and
Meet DAC criteria , submit to OSD
(1 June)**



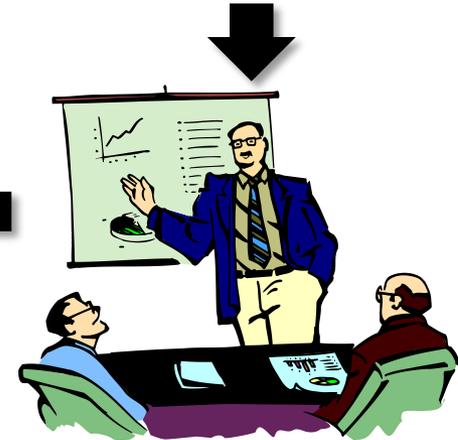
**Execution:
Contracting,
Testing, &
Reporting
(6-18 months)**



**OSD Provides
funding to the
Services & SOCOM
to conduct
evaluations
(July-August)**



**OSD Approval -
DASD(Rapid Fielding)
& ASD (Research &
Engineering
(June-July)**



**OSD Subject Matter Expert
(SME) Assessment
(June)**



DAC Evaluation Criteria



- Warfighter, User Valid Requirement & Endorsement**
- Proposals must address how technology satisfies an operational or capability need
- Technology Readiness / Maturity**
- Procurement Potential**
- Competitive Process: Market Investigation, FEDBIZOPS**
- Cost & Schedule Realism**
- Existing Acquisition System in Production**
- Acquisition & Contracting Strategy**

Basic Acquisition Principles



DAC - Website / Portal

cto.acqcenter.com



OSD CTO Portal

Office of the Secretary of Defense (OSD) Comparative Technology Office

Welcome, Anonymous

Navigation

Help



Show Info

Login

User Name:
Password:

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New Users

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BAA Announcement

The Defense Acquisition Challenge Program is now accepting proposals for the BAA DAC-FY12-BAA0001 (closing 03/23/2012)

OSD Comparative Technology Office

Purpose - Facilitating the rapid fielding of equipment and technologies to the warfighter through the DAC and FCT programs.

[Defense Acquisition Challenge \(DAC\) Program](#)

[Foreign Comparative Testing \(FCT\) Program](#)



Examples of Warfighter Deployment

Defense Acquisition Challenge: 2010 Fielding



Improved Viper Strike



Integrated Trailer Environmental Control Unit & Generator



Personal Oxygen Generator



Combined Visible / Infrared (IR) Light Unit



Uniform Repair Patches



External Auxiliary Power Unit



USMC M1A1 Tank



Defense Acquisition Challenge

FY 2011 New Projects (1 of 2)



- **Fire Resistant Ghillie Suit and Accessory Kit – Army & Source One Distributor, FL (Small Business).** Evaluates a lightweight, durable and modular Ghillie Suit that utilizes flame retardant materials; increases user safety and provides snipers with advanced visible and IR camouflage.
- **Lightweight Surveillance and Battle Damage Assessment Device – Army & Fraser-Volpe LLC, PA (Small Business).** Evaluates a lightweight, gyro-stabilized handheld optical surveillance system against the current M25 Stabilized Binocular; significantly reduces weight, size and cost.
- **Soldier Power Manager – Army & Protonex Technology Corporation, MA (Small Business).** Evaluates a universal power device that creates an efficient and flexible power network for each soldier; reduces weight by consolidating the number and variety of batteries needed.
- **Worldwide Ruggedized Power Supply – USMC & Various Small Businesses.** Evaluates a ruggedized power supply that converts AC power to DC power from any worldwide source; reduces fuel requirements to generate electricity and increases operational flexibility.
- **Pyrophoric Decoy Second Source – Navy & Esterline Defense, CA.** Evaluates a second manufacturing source for critical aircraft countermeasures; decreases unit costs and ensures a steady supply of units in the event of a production disruption or increased demand.
- **Advanced Radio Frequency Distribution Unit – Navy & Out of the Fog Research LLC, CA (Small Business).** Evaluates an improved signals intelligence device for Navy ships that detects weak radio frequencies; increases detection range, frequency coverage and probability of intercept amidst strong shipboard Electromagnetic Interference.



Defense Acquisition Challenge

FY 2011 New Projects (2 of 2)



- **Light Weight Tow Countermeasure System - Navy & Various Small Businesses.** Evaluates a soft-kill torpedo defense system for vessels operating at low speed in shallow water and high speed sprints; addresses a critical capability gap unique to the Littoral Combat Ship.
- **Shipboard Antenna Replacement – Navy & SouthWest Research Institute, TX.** Evaluates an improved high frequency direction finding antenna for Ship's Signal Exploitation System on cruisers and destroyers; improves antenna performance and significantly reduces O&S costs.
- **Herculite® XP Glass for Bombing Hazard Reduction – Air Force & Various Small Businesses.** Evaluates non-laminated blast resistant glass for application at worldwide military installations including Afghanistan and Iraq; improves protection and reduces weight and costs vs. non-hardened windows.
- **Thermal Fire Control for the Multirole Anti-armor Anti-personnel Weapon System (MAAWS) – SOCOM & Raytheon, MA.** Evaluates a programmable, lightweight, compact, thermal imaging technology with 3X electronic zoom for the MAAWS; increases weapon performance during night operations and in low visibility conditions.



Key Points of Contact



OSD	Col(s) Rodney Todaro (AF)	rodney.todaro@osd.mil	571.372.6825
	Dan Cundiff	dan.cundiff@osd.mil	571.372.6807
	Paul Frichtl	paul.frichtl.ctr@osd.mil	571.372.6804
Army	Tom Mulkern	thomas.mulkern@us.army.mil	410.306.4831
	Randy Everett	william.r.everett@us.army.mil	410.306.4824
Navy / USMC	John Barkley	john.barkley@navy.mil	703.696.3158
	Steve Duong	steve.duong.ctr@navy.mil	703.588.2822
AF	LtCol Aaron Taylor	aaront.taylor@pentagon.af.mil	571.256.0332
	John (JR) Smith	johnr.smith@pentagon.af.mil	571.256.0316
SOCOM	Jim Santa-Lucia	james.santalucia.ctr@socom.mil	813.826.0052



Summary: Value of Program



- ***Any person or activity can submit proposal***
 - ✓ Annual Broad Agency Announcement (BAA) or unsolicited
 - 120 proposals received for FY 2011 - funding supported 16 projects
 - Since inception (2003): Over 2000 proposals, 130 projects funded to over 120 domestic companies from 35 States & the District
- ***Benefits:***
 - ✓ Provides innovators access point into DoD
 - 70% projects awarded to US small & medium businesses
 - 25% awarded to non-traditional defense companies (FY 06 – 10)
 - ✓ Joint operations tool / mechanism for rapid fielding capability
 - Stimulates COTS innovation with focus on 'assess, then procure' (e.g., improved batteries, body armor, weapons, training, medical, ISR)
 - Bridge between COCOM urgent needs & acquisition Programs of Record
 - Can rapidly test new technology and field within 12 - 18 months
 - 23 DAC-evaluated items deployed to OEF / OIF

Find Domestic Innovators, Improves Efficiencies, Facilitates Competition