Defense Consortia

A Proven Way to Rapidly Develop and Deploy New Armament Capability in Today’s Environment

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What is a Defense Consortium

Defense Consortia are **collaborative partnerships** between Government, Industry and Academia entities that are **formed to advance** innovative technologies that will **enhance National Defense and Homeland Security capabilities.**

Some Defense Consortia have been **commissioned by** the Office of the Under Secretary of Defense for Acquisition, Technology and Logistics (OUSD(AT&L)) with the support of the Office of Land Warfare and Munitions.

Defense Consortia are **available for use by DoD Laboratories, Program Offices, and other Government Agencies** to conduct research, development, and prototype test and evaluation of **new technologies** that can **provide increased capability.**
Defense Consortia Existing Today…

- **DoD Ordnance Technology Consortium** – *Armament System Technologies*
  - Originally established in 2000; converted to the multi-service DOTC in 2002
  - Operating under a 2014, $700M, 7-year Other Transaction issued by ACC-NJ

- **Robotics Technology Consortium** – *Robotic Systems Technologies*
  - Established in 2008, program management moved from OSD to TARDEC
  - Operating under a 2008, $170M, 7-year Other Transaction issued by ACC-NJ

- **Vertical Lift Consortium** – *Vertical Lift Aviation Technologies*
  - Established in 2010; transitioned program management from OSD to AMRDEC
  - Operating under a 2010, $20M, 5-year, Other Transaction issued by ACC-NJ

- **Consortium for Energy, Environment and Demilitarization**
  - Established in 2010; sponsored by Federal Center for CEED and ACC-NJ
  - Operating under a 2013, $100M, 3-year Other Transaction issued by ACC-NJ

- **System of Systems Security Consortium** – *Agnostic Technology Solutions*
  - Originally established in 2004; first OTA issued in April 2009
  - Operating under a 2012, $100M, 3-year Other Transaction issued by ACC-NJ
Typical Consortia Contracting Process

- DoD Uses Other Transaction Agreement to Contract with the NAC
- NAC Uses its Management Firm ATI to Sub-Contract with NAC Members
- All Proposals are Routed Through ATI to Ensure Response is Compliant
- Government Sponsors Evaluate Proposals Submitted and Make Source Selections

All awards made to NAC member organizations are done so on a full-and-open competition basis
## Benefits of Using Other Transactions

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<tr>
<th>U.S. Government</th>
<th>Industry and Academia</th>
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<td> Reduced Acquisition lead time</td>
<td> Relief from FAR provisions</td>
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<td> One-stop technology shopping</td>
<td> IRAD funds can be used to fund projects</td>
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<td> Access to broad spectrum of traditional and non-traditional contractors</td>
<td> Enables industry/academia planning for technology development investments</td>
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<td> Full and open competition throughout</td>
<td> Enhanced collaboration between the Government, Industry and Academia</td>
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<td> Source selection integrity preserved</td>
<td> Reduced B&amp;P costs with use of White Papers before proposal preparation</td>
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<td> Full control over use of sponsor’s funds</td>
<td> Higher visibility into USG requirements</td>
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<td> Ability to incrementally fund projects</td>
<td> Open dialogue with the Government is permitted up until proposal submittal</td>
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<tr>
<td> Open dialogue with Contractor is permitted up until proposal submittal</td>
<td> Technically acceptable proposals placed in basket awaiting funding for 3 years</td>
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Established to facilitate Government, Industry and Academic collaboration in the field of armament research, development, engineering and prototype testing of advanced armament technologies for insertion into future and legacy systems to ensure Warfighter technological superiority on the battlefield.
A Premier Defense Industry & Academic Partnership

DOTC/NAC Enterprise Evolution

**GFY 01**
- 45 Active NWEC Members
- 3 Government Members
- 48 Proposal Submitted
- 17 Initiatives Selected
- $5.4 Million Awarded

**GFY 13**
- 248 Active NAC Members
- 10 Government Members
- 294 Proposal Submitted
- 71 Initiatives Selected
- $244 Million Awarded

- **AUG 2000** – NWEC Formed to Partner with the ARDEC, ARL and NOS-IH
- **JUL 1999** – Industry Day Briefings to Establish Government, Industry and Academic Partnership
- **DEC 2002** – USD(AT&L) Establishes DOTC as DoD Laboratory Initiative
- **NOV 2007** – DOTC Moves to Single Point Contracting Methodology
- **SEP 2011** – Added Protection and Survivability Focus Area
- **DEC 2008** – Added Enabling Technologies Focus Area
- **NOV 2013** – National Small Arms Technology Consortium (NSATC) Merges with NWEC/DOTC; NWEC changed to NAC

**Today -- 219 Active Projects in 10 Technology Focus Areas -- $646.0 Million on Contract**
DOTC/NAC Success Stories

C-RAM Accelerated Improved Intercept Initiative (AI3)

Advanced Precision Munition Initiative (APMI)

Potassium Perchlorate Replacement Initiative

Benziger TATB Process Facilitation at Holston
**Development Strategy:** To support an Urgent Warfighter requirement, PD – GPMMS used DOTC as a key enabler to rapidly develop, demonstrate, and deploy leap ahead precision capabilities for the maneuver commander.

**Phase 1:** Oct 2009 – Mar 2010  
Competitive Design Maturation & Demonstration

**Phase 2:** Apr 2010 – Mar 2011  
Qualification to Urgent Material Release (UMR)  
Start of Limited Procurement

**Phase 3:** Mar 2011 – Aug 2011  
New Equipment Training and Fielding
**Energetic Material Availability Initiative**

**Benzinger TATB Process Facilitation at Holston**

**Acquisition Strategy:** Responding to an urgent need to indigenously manufacture TATB, which has been out of production in the U.S. since 1999, the DoD, DoE, PM-Ammo and other Services used DOTC to regain an organic capability.

**Phase 1:** Nov 2009 – May 2011
- Competitive Demonstration Between ATK & BAE

**Phase 2:** May 2011 – Nov 2012
- Down Select to BAE for Process Validation
- Process Validation Conducted and Completed

**Phase 3:** Feb 2013 – Present
- Plant Commissioned and Production Begins

- Process developed; facility commissioned; and, material delivered in less than 27 months

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Joint Services Pyrotechnic Initiatives

Potassium Perchlorate Replacement Initiative

Development Strategy: To support a DoD wide requirement, PD – Pyrotechnics used DOTC as a key enabler to rapidly synthesize, develop, test and deploy environmentally friendly energetic formulations to replace Potassium Perchlorate in “multiple” munitions.

Phase 1: Oct 2005 – Sep 2010
Energetic Synthesis and Formulation Development

Phase 2: Oct 2006 – Sep 2011
Prototype Development and Energetic Material Qualification Board (EMQB) Certified.

Full up end item qualification testing, ECP and Initial Production

Developed and in the hands of the Warfighter for Multiple Munitions

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Accelerated Improved Intercept Initiative (AI3)

Development Strategy: To support an Urgent Warfighter requirement, PD C-RAM used DOTC to implement a competitive acquisition approach that would provide a system that fully met requirements as quickly and cost effectively as possible.

**Phase 1:** Sep 2011 – Oct 2011
- Solicitation, Draft RFP and Industry Day

**Phase 2:** Nov 2011 – Jan 2012
- Proposals, Tech Evaluation, Source Selection, and Contract Award

**Phase 3:** Feb 2012 – Aug 2013
- Prototype Development, Lab Testing, and Live Fire Test

**RFI, System Development, and first flight in less than 24 months**

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Summary and Conclusions

What Can Defense Consortia Do For You?

- Reduce development cycle times, risks, and costs
- Eliminate onerous Federal Acquisition Regulations
- Provide access to broad spectrum of new technology
- Allows Contractors’ to use IRAD funding on your programs
- Gives easy access to Non-Tradition Contractor technologies
- Facilitates Government, Industry and Academia Collaboration
Points of Contact

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