The Department of Defense Ordnance Technology Consortium

Helping the Warfighter Maintain Technological Superiority on the Battlefield

Presented by:
Mr. TONY MELITA
Senior Advisor, NWEC Executive Committee

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Distribution A – Approved for Public Release
Presentation Outline

- What is DOTC?
  - The DOTC Enterprise
  - Our Business Model
  - Consortium Attributes

- Why Should I Use It?
  - Features & Benefits
  - Government & Industry Testimonials

- How is It Organized?
  - Enterprise Organization with Technical Focus Areas

- How do I Use It?
  - Concept of Operations
  - Annual Cycle & Schedule
  - Acquisition Options

- Who is Involved?
  - Government & Industry Participants

- Current Operations/Trends
  - On-going Research Initiatives
  - Enterprise Growth Trends

- STEM Education Outreach

- Points of Contact
The DoD Ordnance Technology Consortium (DOTC)…

- DOTC is a collaborative partnership between the Department of Defense and the National Warheads and Energetics Consortium (NWEC)

- Commissioned by USD (AT&L) as a DoD initiative in 2002, DOTC was established to facilitate collaboration between the Government, Industry, and Academia in the advancement of munitions technologies

- DOTC is available for use by all Service Laboratories, Program Offices, and other Agencies for the development and prototyping of advanced concept warheads, energetics, fuzes and other related enabling weapon system technologies

DoD and NWEC… Partnering to Leverage Each Others Capabilities and Investments
**Our Business Model**

**Two Consortia, One Enterprise… A Different Way of Doing Business**

**DOTC**…a consortium of Government Laboratories and Agencies, and its NWEC component; commissioned by the USD(AT&L); operating under an Other Transaction Agreement (Public Law 103-160, Section 845); and, governed by an eighteen (18) member Government, Industry and Academic Executive Committee, co-chaired by representatives from the Government and NWEC.

**NWEC**…an open and competitive consortium of traditional and non-traditional defense contractors, and academic institutions operating under the provisions of an NWEC Consortium Member Agreement, executed by the participating member organizations, and governed by a 9 member Executive Committee of small business, large business and academic institutions.

**Government, Industry and Academia Partnering for Ordnance Technology Development**
Consortium Attributes

One Organization…One-stop Shopping…

- Operating concurrently under a seven (7) year, $700M-ceiling, and a five (5) year, $500M-ceiling, Section 845 Other Transaction Agreement (OTA) executed between the Government and NWEC.

- OSD-approved OTA can be used by all Program Offices, Services, and Agencies for more rapid industry engagement versus traditional FAR-based acquisitions.

- Competitive proposal evaluations and initiative oversight is performed by the Government activity that is funding the research and development.

- Joint and transparent Government, Industry, and Academic planning leverages the parties’ individual investments.

- Agile, flexible, and responsive business practices allow urgent out-of-cycle requirements to be acted upon immediately by over 210 member organizations.

- Requirements can be included in the Annual Technology Plan, and white papers and proposals can be received and evaluated before funding becomes available.

- One-stop shopping through DOTC provides access to non-traditional defense contractor’s innovative ideas and technologies in an open and competitive environment.
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<thead>
<tr>
<th>FEATURES</th>
<th>BENEFITS</th>
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<tr>
<td>Open Membership</td>
<td>Affords opportunity for all interested members of industry and academia to participate by imposing reasonable membership requirements.</td>
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<td>Streamlined Acquisition</td>
<td>Existing contract and flexible business processes reduce duplicative FAR-based upfront contract processes, thus reducing overall development and fielding time for prototype materiel solutions.</td>
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<td>Collaborative and Competitive</td>
<td>Enables Government and Consortium members to collaborate in an upfront technology planning process. Consortium members (or teams of members) then compete in response to government Request for Project Proposals in anticipation of technology development funding against the tech development plan/projects. The Government solicits, evaluates, selects and awards.</td>
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<tr>
<td>Environment</td>
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<td>Targeted Research Investment</td>
<td>Provides Consortium members early insight into technology requirements which in turn allows them to focus their Independent Research and Development (IRAD) resources on items that matter to the Government.</td>
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<td>Small Business and Non-traditional</td>
<td>Encourages participation by small and non-traditional defense contractors that can bring innovative technologies and solutions to both the Government and the Consortium member organizations.</td>
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<td>Participation</td>
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<td>Resource Leveraging</td>
<td>Allows Government and Consortium members to leverage their financial resources and employ each others’ facilities, technology and human capital investments to achieve critical mass.</td>
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<td>Single-Point Contracting</td>
<td>Reduces proposal preparation, contract award, and congressional reporting burdens on both the Government and Consortium members.</td>
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<td>No Protests Allowed</td>
<td>Prohibits formal protests against the Government’s project selections/awards.</td>
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<td>DoD / Industry, Academia Partnering</td>
<td>Minimizes ordnance technology development duplication across Services, Agencies and Industrial/Academic enterprise components.</td>
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"…the DOTC process has been very valuable for the development of new weapon system technologies that meet a wide variety of Warfighter mission requirements and to support the rapid transition of these new technologies to the Industrial Base. An addition benefit is DOTC allows us meet DA obligation goals which is vital to keep the S&T activities funded."

Ms. Barbara J. Machak, SES - Executive Director, Enterprise and Systems Integration Center, ARDEC

"Over the past four years PM CAS has used the DOTC to advanced its strategic objectives. The annual plan has proven to be an effective and efficient tool in aligning Industry IRAD investments with PM CAS goals. The flexibility and responsiveness of the DOTC staff enabled key programs such as the Accelerated Precision Mortar Initiative (APMI) to advance rapidly toward qualification."

Mr. Martin Moratz, Chief, Conventional Ammunition Division, PM-CAS

"DOTC has provided an easy-to-use mechanism to access multiple ordnance-related companies for the purpose of doing Research & Development on critical DOD materials. Through the use of DOTC, a tri-service explosives development program for TATB was able to be established, which ultimately could lead to a CONUS source of TATB."

Mr. Charles R. Painter, Director, Navy Energetics ManTech Center

" We have used DOTC initiatives with great success to meet the growing demands of PEO Ammunition and PM Close Combat Systems. The DOTC acquisition approach has been one of the single most important tools to provide my growing organization with flexible and timely contract awards to get the job done effectively."

Mr. James L. Wejsa, Chief, Pyrotechnics Technology & Prototyping Division, ARDEC

" Utilizing a Single Point of Contact approach has provided maximum flexibility to manage the contractual aspects of a dynamic program like this. All parties are benefitting from a more efficient and effective way to execute DOTC requirements. It significantly reduces processing times and the need to interface with individual member companies.”

Mr. Bruce B. Berinato, Principal Assistant Responsible for Contracting, US Army Contracting Command

Customer Satisfaction… Assured Through Timely Performance and Successful Execution
"NWEC/DOTC provides the only viable avenue for small businesses to bring innovative ordnance technology to DoD and work as active partners with the Government. The flexibility and collaborative exchange allows us to address Warfighter needs as the threats evolve and get the right technology out to the field without delay. We have received four Army Invention of the Year Awards for our team efforts with the Government and would not have been afforded the opportunity to be on these teams had it not been for NWEC/DOTC."

Ms. Diana-Lynn Herbst, Director, Contracts & Business Development, CLogic Defense

"The NWEC/DOTC consortium provides a rare and powerful mechanism for collaboration among government, industry, and academic institutions to address the Warfighter’s needs with technically superior solutions in an efficient and timely manner. The synergy provided by the NWEC/DOTC partnership grows with each new member added. The consortium’s large technology base combined with an efficient and flexible contracting mechanism affords small businesses (like SciTech Services, Inc) and those who traditionally do not work on DoD based programs the opportunity to apply their unique knowledge and skills to our country’s defense. This is nearly impossible outside of the consortium environment."

Thomas P. DeAngelis, Ph.D.; Executive Vice President, SciTech Services, Inc.

"As an academic researcher, the defense contracting process often appears inscrutable. However, the DOTC enterprise provides three key attributes to address this:
- Insight into the Warfighter's needs, assisting with the identification of promising technologies still in the laboratory;
- Access to Government proponents, allowing collaboration in determining an appropriate path forward to develop these technologies into solutions;
- Responsiveness through a streamlined proposal and contracting process, providing feedback along the way."

Dr. Eric Boyer, Dept. of Mechanical and Nuclear Engineering, The Pennsylvania State University

"The NWEC/DOTC is a powerful collaborative enterprise comprised of members of the DoD and DOE community, industry and academia, working together to bring advanced technology and solutions to the Warfighter. It provides large businesses like SAIC, a platform to engage the government, other industry members including small and non-traditional defense businesses and academic institutions in proposing and executing advanced munitions related research projects. It also provides an efficient, rapid and flexible contracting process essential to rapid development of technology for the Warfighter. These attributes, not available outside of this type of framework, make the DOTC enterprise an indispensable mechanism for consortium members to develop cutting edge technology in support of the DoD."

Paritosh R. Dave, Ph.D.; Assistant VP; Energy, Environment & Infrastructure Solutions, SAIC

ATK has been effectively using the DOTC process across five of our major divisions since its inception. This process has allowed us to leverage technology throughout the industry, academia, and the Army labs (specifically ARDEC and ARL). There is NO other process in the DoD that allows for this collaborative forum for rapid development and demonstration of next generation munitions technology. This process is uniquely set up for determining the requirements of the next generation munitions to meet the needs of the emerging battlefield. This is critical in getting what the Warfighter wants, when they want it, while not compromising the tenets of the engineering design process.

Charlie Zisette; Director, Engineering; ATK Advanced Weapons
**Annual Plan Development to Initiative Award…**

**NOV - JAN**
- Technology IPTs
- Government Project Officer/NWEC Planning

**FEB - MAR**
- Draft Annual Plan
- Gov’t S&T Guidance
- Input from NWEC
- Collaboration Days

**APR - JUN**
- Annual Plan Finalized Call for Ordnance Technology Initiatives
- ExCom Meeting

**JUL - SEP**
- NWEC General Membership Mtg
- Proposals Submitted & Evaluated
- ExCom Meeting

**SEP - OCT**
- Selections & Obligate Funding
- ExCom Meeting

**Basket Proposals Remain Valid for 3 years from Submission Date**

- Funding obligated when received (proposal required)
- Prefer RDT&E Funding
- Can accept APA/PAA w/justification
- Can not accept OMA funding

**In Care of Consortium Management Firm**
- Funding Available for Selected Proposals?
  - Yes
  - Award Initiatives
    - INIT 001
    - INIT 002
    - INIT 003
  - No
  - Electronic Basket
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<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>Open BIDS for Annual Plan Requirements</td>
<td>NOV 12</td>
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<tr>
<td>FY14 Updates to Annual Plan due</td>
<td>12 DEC 12</td>
</tr>
<tr>
<td>FY14 Annual Plan Release to NWEC</td>
<td>10 JAN 13</td>
</tr>
<tr>
<td>Cut-off for Submissions to FY14 Annual Plan</td>
<td>15 FEB 13</td>
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<tr>
<td>DOTC Executive Committee Meeting</td>
<td>26 FEB 13</td>
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<tr>
<td>Release of FY14 Annual Plan to NWEC</td>
<td>01 MAR 13</td>
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<tr>
<td>Request for Ordnance Technology Initiatives</td>
<td>19 MAR 13</td>
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<tr>
<td>White Papers Due in BIDS</td>
<td>23 APR 13</td>
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<tr>
<td>White Paper Feedback to NWEC Members</td>
<td>21 MAY 13</td>
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<tr>
<td>NWEC General Membership Meeting</td>
<td>5-6 JUN 13</td>
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<tr>
<td>Proposals Received in BIDS</td>
<td>16 JUL 13</td>
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<tr>
<td>Proposal Evaluations due in BIDS</td>
<td>13 AUG 13</td>
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<tr>
<td>DOTC ExCom Meeting</td>
<td>19 AUG 13</td>
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<tr>
<td>Technical Direction for Awards</td>
<td>OCT - NOV 13</td>
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The Standard Process:

– **Submit Annual Plan Requirement:** DoD PMs and Lab Technologists -- submit technical requirement(s) to the DOTC office for inclusion in the Annual Plan in the year prior to funding availability

Options for Currently Available Funding:

– Government can review current database of selected and basket proposals on NWEC-DOTC web site
  
  • **Incrementally Fund an Existing Initiative:** There may be an open initiative for a similar requirement that can be collaboratively worked (work can be initiated in less than 30 days)
  
  • **Award a Basket Proposal:** Determine if there are any proposals in the basket that meet your requirement (60-80 days award time)
  
  • **Out-of-Cycle Request:** For requirements that will directly effect the soldier in the field or significant RDTE funding investment for urgent transition, an out-of-cycle request can be submitted (4-6 month award time)
Government Participants

A Premier Government, Industry & Academic Partnership

UNCLASSIFIED
Broad Participation Across the Country
$407.9 million and 169 Initiatives Currently Under Contract…

As of 4 March 2013

- Explosives: $86.62 M
- Fuzes: $29.95 M
- Warheads: $63.89 M
- Enabling Technology: $66.24 M
- Propellant: $30.80 M
- Pyro: $24.99 M
- Protection & Survivability: $99.52 M
- DEMIL: $4.83 M
- IM: $1.12 M

A Premier Government, Industry & Academic Partnership
$255.53 Million Provided in **FY12** by the Services …

As of **EOM September 2012**

- **Department of the Army**
  - ARDEC’s, PEO’s, PM’s and Others: $210.15 Million (82%)
- **U.S. Army**
  - $210.15 Million (82%)
- **U.S. Air Force**
  - $7.36 Million (3%)
- **U.S. Navy**
  - $30.66 Million (12%)
- **U.S. Marine Corps**
  - $0.56 Million (0%)
- **NDEP-STEM**
  - $2.78 Million (1%)
- **OSD - JIMTP**
  - $4.02 Million (2%)
$83.51 Million Provided in **FY13** by the Services …

As of EOM February 2013

- **U.S. Army**
  - $63.88 Million (76%)
  - Department of the Army ARDEC’s, PEO’s, PM’s and Others

- **U.S. Air Force**
  - $1.73 Million (2%)

- **U.S. Navy**
  - $9.87 Million (12%)

- **OSD - JIMTP**
  - $4.13 Million (5%)

- **NDEP-STEM**
  - $3.90 Million (5%)
Sustained Growth is Important to All DOTC Stakeholders - Government, Industry and Academia
Mission: To Supply Our Future DoD Workforce

- Provide outreach assistance for students, teachers, and school systems with the intent to increase the number of students selecting STEM careers and improve the technological competence of the overall U.S. population
  - Initiatives include materials science (Materials World Modules), mathematics (Tabula Digita, MATHCOUNTS, and Calculator Robots), robotics (LEGO, FIRST Robotics and Sea Perch)
- We provide professional support from scientists and engineers to schools
  - In-class support, presentations, career day activities, science fairs, and field trips

DOTC STEM: Advantages

- Collaborative Government, Industry, & Academia Environment
- Experience in Government / Private Sector Partnerships
- Serves all US Armed Services (Purple)
- Greater Role in National Defense Education Program with Multi – State Footprint and large pool of DoD/Industry S&Es
- Recognized Resource for Developing and Executing STEM Programs

www.stemresource.org
Points of Contact

NWEC Management

Mr. Gary A. Schneider
Co-Chair DOTC Executive Committee
Chairman, NWEC Executive Committee
Phone: (480) 829-9336
Mobile: (602) 312-5665
E-mail: gsacorp@earthlink.net

Mr. Bill Ervin
NWEC Executive Director
Phone: (256) 783-5355
Email: billervin@comcast.net

Mr. Tony Melita
Senior Advisor, NWEC Executive Committee
Phone: (703) 695-1382
Mobile: (703) 338-0294
E-mail: melita@melitaconsulting.biz

Mr. Chick Feldmayer
Customer Liaison, NWEC Executive Committee
Phone: (480) 829-9336
Mobile: (602) 312-5665
E-mail: cfeldmayer@aol.com

http://www.nwec-dotc.org

DOTC Program Management Office

Mr. Donald A. Geiss Jr.
DOTC Program Director
Phone: (973) 724-3386
Mobile: (973) 534-4582
E-mail: donald.a.geiss.civ@mail.mil

Mr. Don Palathinkal
DOTC Technology Manager
Phone: (973) 724-4231
Mobile: (973) 886-7484
E-mail: don.j.palathinkal.civ@mail.mil

Ms. Lynda Ru
DOTC Technology Manager
Phone: (973) 724-4288
Mobile: (973) 294-2195
E-mail: lynda.ru.civ@mail.mil

Ms. Lia Sosa (CTR)
DOTC Technology Manager
Phone: (973) 724-4110
Mobile: (856) 701-7615
E-mail: lia.k.sosa.ctr@mail.mil

Ms. Krystina Palumbo
DOTC Administration Officer
Phone: (973) 724-2046
Mobile: (973) 270-4082
E-mail: krystina.m.palumbo.civ@mail.mil