Mission:
Provide Research, Development, Acquisition Fielding and Life Cycle Support of Chemical, Biological, Radiological and Nuclear Defense Equipment, Medical Countermeasures Capabilities for Army, Marine Corps, Air Force, Navy and Combatant Commands Supporting the National Strategies

Vision:
An Agile, Results-Oriented, and Transformational Acquisition Enterprise Delivering Net-Centric, Modular, Tailorable and Multi-Purpose Capabilities to the Nation
Areas of Responsibility

- Vaccines
- Treatments
- Diagnostics & Integrated Advanced Analytics
- Biosurveillance
- Information Systems
- Chemical, Biological & Radiological Agent Detection
- Individual & Collective Protection
- Decontamination
- WMD Elimination
- WMDs Civil Support
- Rad/Nuc Defense

Total Life Cycle Management
Whole-of-Government Approach to CBRN Defense, Response & Readiness

Situational Awareness (Impacts Entire CBRN Event)

CBRN Environment

Prepare
- Warning and Reporting
- Decision Analysis & Management

Prevent
- Vaccines
- Warning and Reporting

Protect
- Percutaneous Protection
- Respiratory & Ocular Protection
- Collective Protection
- Equipment

Respond
- Detection (CBR)
- Expeditionary Analytics
- Contamination Mitigation (Personnel and materiel)

Recover
- Medical Treatments
- Contamination Mitigation (Personnel and materiel)

Engage
- Render Safe
- Render Unusable
- Eliminate

Traditional Chem/Bio

Non-traditional Agents

Rad/Nuc

Emerging Chem/Bio

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Our Challenge

To Stay Ahead of the CBRN Threat, We Engage:

1. Long-term Planning and Analysis / A Unique Analytical Framework
2. Key Focus Areas of Layered Defense / Individual Protection / Contracting Reform
Long-term Planning and Analysis / A Unique Analytical Framework
Long-term Planning and Analysis

- Visualization of Current and Future Programs/Projects
- Planning Tool for JPEO-CBD/Defense Threat Reduction Agency
- Vehicle for Industry and Government Partners to Help Us Reach our Potential
  - Assistance in Reaching or Exceeding the Targets
  - Technological Possibilities to Redefine the Targets and Endpoints to include Emerging Threats
  - Identify Game Changing Technology Insertions

How Can We Give Our Warfighters The Best Capability?
A robust, quantitative and repeatable framework which supports:

- **Comparison of trades** during concept development, analysis of alternatives and material solution analysis
- Characterize the **impacts** of design changes on **mission effectiveness**
- Develop end-to-end, integrated on **capability sets** not widgets
- Traceable investment strategies to drive down **operational risk**
- Early **collaboration** from all stakeholders/performers

Defendable Data Driven Investment Decisions
Analytical Framework Components

**Portfolio Analytics**

*How do we manage the portfolio and what capabilities are we missing?*

Examines gaps and trends in current threats and capabilities.

**Force on Force Simulation**

*What effect do new capabilities have on mission outcomes when compared to baseline capabilities?*

Provides System of System view in an operational context.

**System of System Engineering**

*What can be traded to reduce cost and operational risk?*

Pairs system engineering principles with computer-based models, visualization, and discrete simulation tools.

**Business Analytics**

*Is this the optimal investment?*

Provides comprehensive knowledge (cost, risk, suitability, interoperability, etc.) about the capabilities.
Key Focus Areas of Layered Defense / Individual Protection / Contracting Reform
The Future of Layered Defense
The Value of Layered Defense

Confidence/Specificity

Tipping and Cueing

Data Fusion

Decision Support

Early Warning System

- Potential Hazard
- Cloud tracking
- Wind Fields
- CBR Detection
- CBR Detection
- Identification

<table>
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<th>EARLY WARNING SYSTEM</th>
<th>Tripwire</th>
<th>Point Sensing</th>
<th>Field Confirmatory</th>
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Benefits

• Integrated Architecture enables rapid tipping and cueing of non-CB and CB sensors

• Data Fusion and Decision Support Provides:
  – Enhanced timely SA for the decision makers
  – Higher Confidence through integrated data

• Capability Sets allow
  – Reduced complexity and cost for each single node
    • Tradeoff across system components
  – Dynamic system to respond to broader evolving threats
  – Cost Efficient/Rapid Technology Refresh
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<th>Mission Areas</th>
<th>Profiles</th>
<th>Challenge/Threat</th>
<th>Concept(s)/Options</th>
<th>Partners</th>
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</table>
| LAND                  | Infantry/Fires/Combat Vehicles    | Potential *High* Exposure (up to 10 grams of agent per square meter) | 1. Complete integration into the Individual Soldier Kit  
2. Layered ensemble that integrates with the Individual Combat Kit  
3. Overgarment | PEO Soldier/USMC Infantry Weapons |
| AIR                   | Pilot/Air Crew                    | Likely *Low* Exposure (from 1 to 2 grams of agent per square meter) | 1. Undergarment (Aviation Integrated Ensemble)  
2. Protective Flight Suit | USAF/NavAir |
| SEA                   | Shipboard/Coastal                 | Likely *Medium* Exposure (up to 5 grams of agent per square meter) | 1. Overgarment | NAVSEA |
|                       | High Threat Contingency/          | Natural Disasters/Humanitarian/Homeland Defense            | **NFPA 1994 Class 1 and NFPA 1994 Class 3** | NORTHCOM/DHS/HHS |
|                       | Homeland Defense                 | Rad/Highly Contagious Disease/High Chemical Threat (Up to 20 grams of agent per square meter) | | |

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OCO: Facilitating Contract Solutions

ACC-APG Contracting Offices

Omnibus Contracts Office

Testing & Evaluation
Acquisition Personnel
Equipment & Materials
Medical Systems Support
Research & Development
Business & Finance
Logistics & Sustainment
Engineering & Analysis
Network & IT Solutions

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OBJECTIVE: to build, execute, and manage a portfolio of Joint Enterprise Omnibus contract vehicles to support all contracted requirements across the JPEO-CBD

**OPETS**
- $495M IDIQ Services Contract
- Program Management & SETA Support Services
- Across the Enterprise (HQ & JPMs)
- ~400 FTEs to date

**JE-OPETS**
- Follow-On to OPETS
- 4-Year Base Period & Two 3-year Option Periods (FY19 to FY29)

**JE-RDAP**
- $6.27B IDIQ R&D Supply Contract
- Research, Development, Acquisition, and Procurement
- Main Contract Vehicle for ALL FUTURE JPM-Developed CBRNE Defense Systems, Equipment & Material

**JE-CLaSS**
- $900M IDIQ Services Contract
- Provides contracted PBL support to JPEO-CBD fielded CBRNE Defense Systems

**Contracted Resources**
- Personnel
- Research, Development, Acquisition & Production/Procurement
- Life Cycle Logistics/PBL Support

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Other Transaction Authority (OTA) Award for CBRN Defense MCM Development

• Authority: 10 U.S.C. § 815
    • Repealed § 845 & Replaced with § 815
    • Revised dollar approval thresholds ($50M/$250M)
    • Clarified non-traditional defense contractor (“NTDC”) and small-business participation
    • Clarified the transition from prototype development to production

• April 8, 2016: ACC-NJ awarded OTA
  - 3 Objective Areas: Prevention, Detection, Treatment

• Awardee: Medical CBRN Defense Consortium (MCDC) (ATI: Consortium Management Firm)
OTA Expectations

• Access to Industry Expertise
  – Extremely competent professionals
  – Regulatory experience and success

• Reduce/manage risk
  – Assess developmental programs to determine the path forward

• Streamline development
  – Shrink the intervals

• Foster partnership between DoD, consortium & industry
  – Coordinate planning, and research and development

• Partner with Other Government Agencies
Closing Remarks

SPECIAL THANKS TO:
- NDIA and Our Industry Partners
- Our DoD Partners
- COL Nate Farmer and the CDTF Staff
The BEST Technology and Equipment
At the RIGHT PLACE
At the RIGHT TIME
At the RIGHT COST

Douglas W. Bryce
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