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Joint Program Executive Office for Chemical and Biological Defense

Joint Program Executive Office for Chemical and Biological Defense **NDIA Annual CBRN Defense Conference and Exhibition**

Douglas W. Bryce Joint Program Executive Officer for Chemical and Biological Defense Aug. 2, 2016













Joint Program Executive Office for Chemical and Biological Defense

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





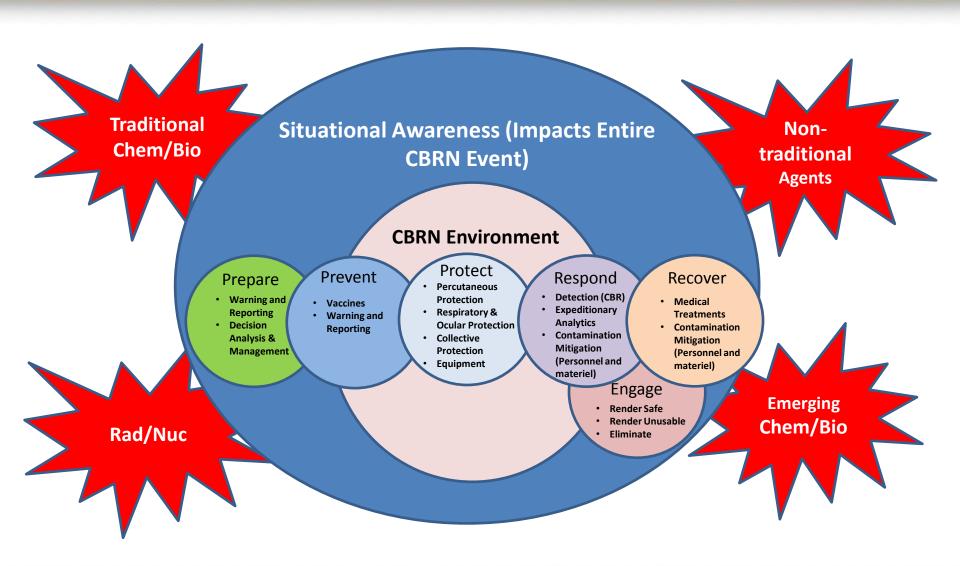
Areas of Responsibility



Total Life Cycle Management



Whole-of-Government Approach to CBRN Defense, Response & Readiness





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?

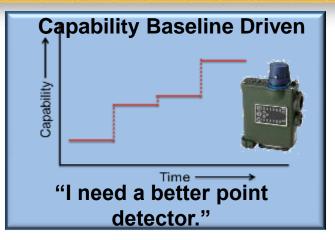


Analytical Framework Mission

A robust, quantitative and repeatable framework which supports:

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

Defendable Data Driven Investment Decisions



Bottom-Up Approach





Top-Down Approach



Analytical Framework Components



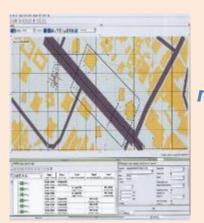


Portfolio Analytics

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

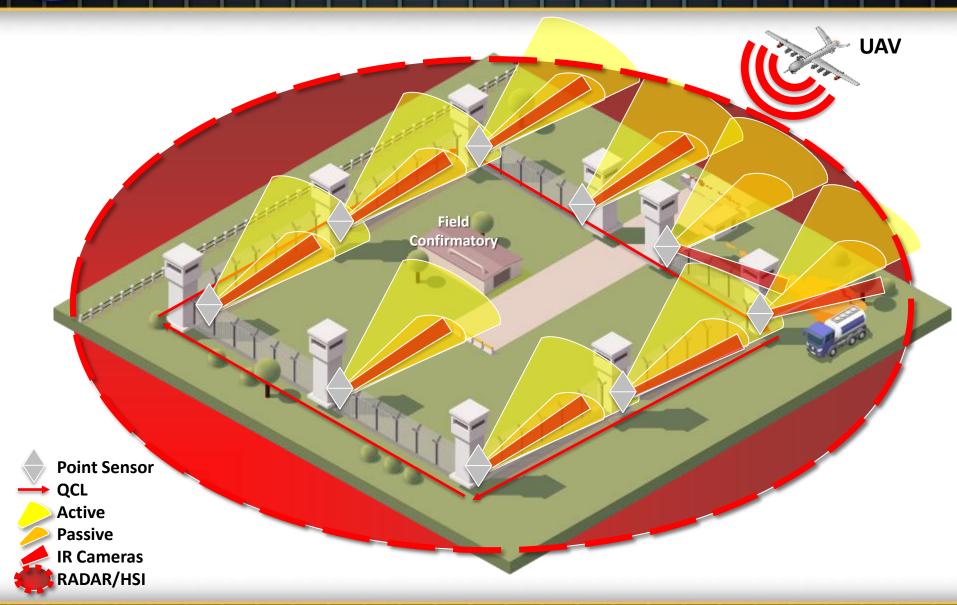


Key Focus Areas of Layered Defense / Individual Protection / Contracting Reform



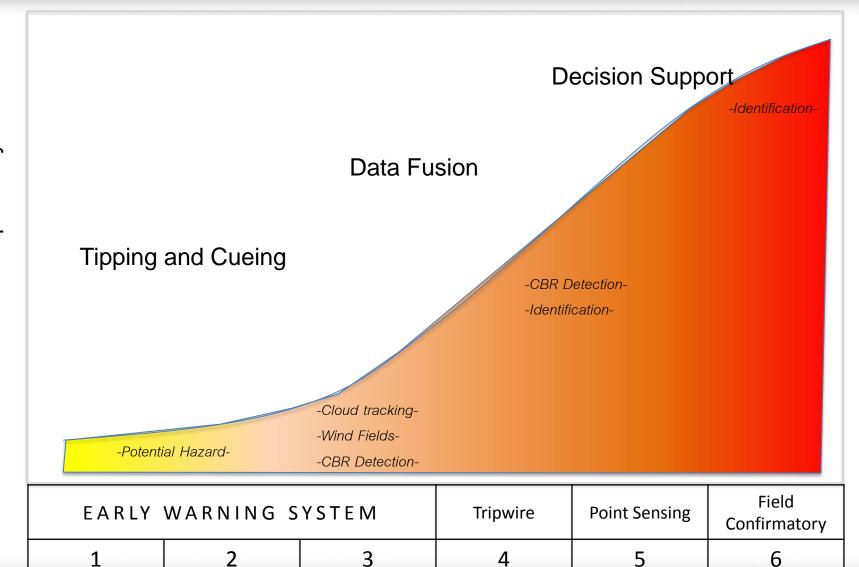


The Future of Layered Defense





The Value of Layered Defense



1

4

6



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 makes
 - 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

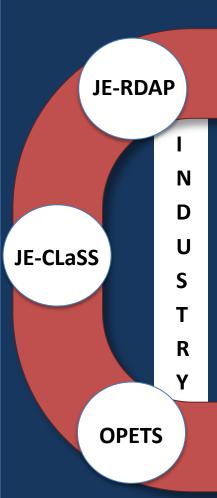


Individual Protection: Uniform Integrated Protection Ensemble Increment (UIPE) 2

| Mission Areas | Profiles | Challenge/Threat | Concept(s)/Options | Partners |
|--|---|---|--|--|
| LAND | Infantry/ Fires/Combat Vehicles | Potential <i>High</i> Exposure (up to 10 grams of agent per square meter) | Complete integration into the Individual Soldier Kit Layered ensemble that integrates with the Individual Combat Kit Overgarment | PEO Soldier/ USMC Infantry Weapons |
| AIR | Pilot/Air Crew | Likely <i>Low</i> Exposure (from 1 to 2 grams of agent per square meter) | Undergarment (Aviation Integrated Ensemble) Protective Flight Suit | USAF/NavAir |
| SEA | Shipboard/ Coastal | Likely <i>Medium</i> Exposure (up to 5 grams of agent per square meter) | 1. Overgarment | NAVSEA |
| High Threat Contingency/ Humanitarian/ Homeland Defense | Natural Disasters/ Homeland Defense | Rad/Highly Contagious Disease/High Chemical Threat (Up to 20 grams of agent per square meter) | NFPA 1994 Class 1 and NFPA 1994 Class 3 | NORTHCOM/ DHS/HHS |



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



OCO Contracts Overview

OPETS

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

<u>Contracted Resources</u>

JE-OPETS

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

Personnel

JE-RDAP

\$6.27B IDIQ R&D Supply Contract
Research, Development, Acquisition, and Procurement

<u>Main Contract Vehicle for ALL FUTURE</u>

JPM-Developed CBRNE Defense Systems, Equipment & Material

Research, Development, Acquisition & Production/Procurement

Awarded/Award in Process



JE-CLaSS

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

Life Cycle Logistics/PBL Support

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



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

- Authority: 10 U.S.C. § 815
 - Fiscal Year 2016 National Defense Authorization Act Revisions
 - Repealed § 845 & Replaced with § 815
 - Revised dollar approval thresholds (\$50M/\$250M)
 - Clarified non-traditional defense contractor ("NTDC") and smallbusiness 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)

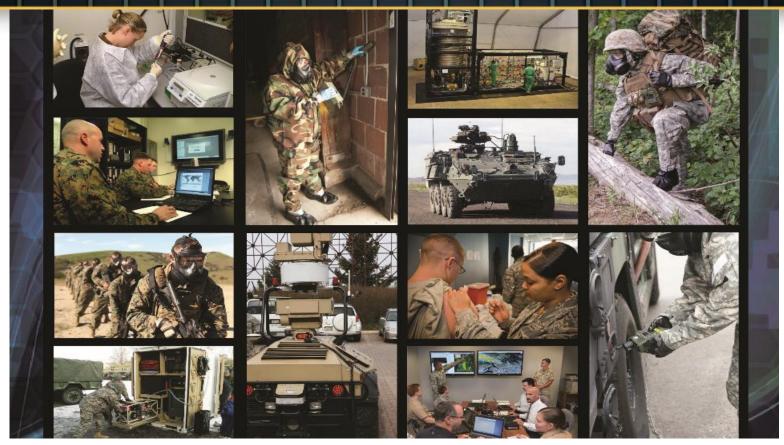


OTA Expectations

- 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



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