



# 2012 Joint CBRN Conference and Exhibition

Joint Program Executive Office for Chemical and Biological Defense

## Joint Program Executive Office for Chemical and Biological Defense

*Jess A. Scarbrough  
Brigadier General, USA  
Joint Program Executive Officer  
for Chemical and Biological Defense*

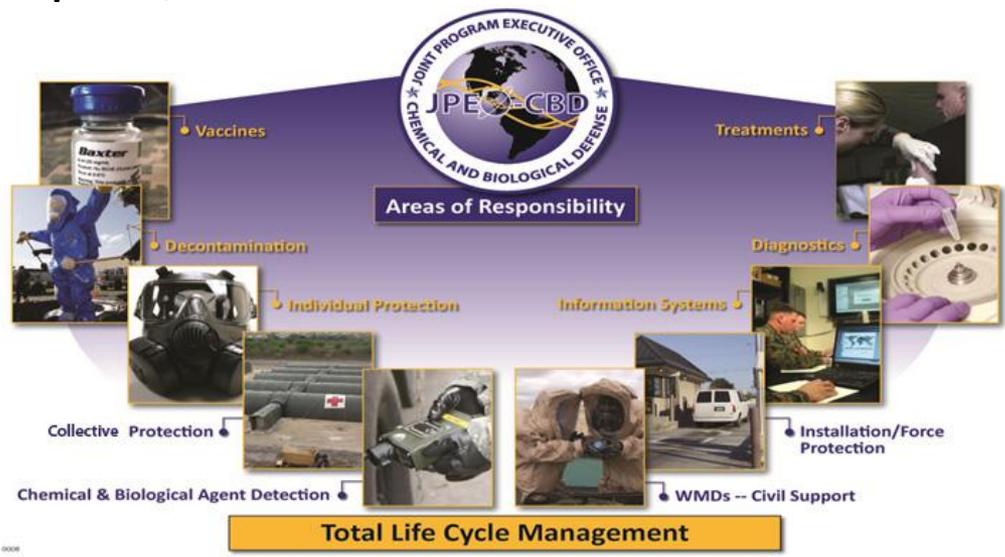
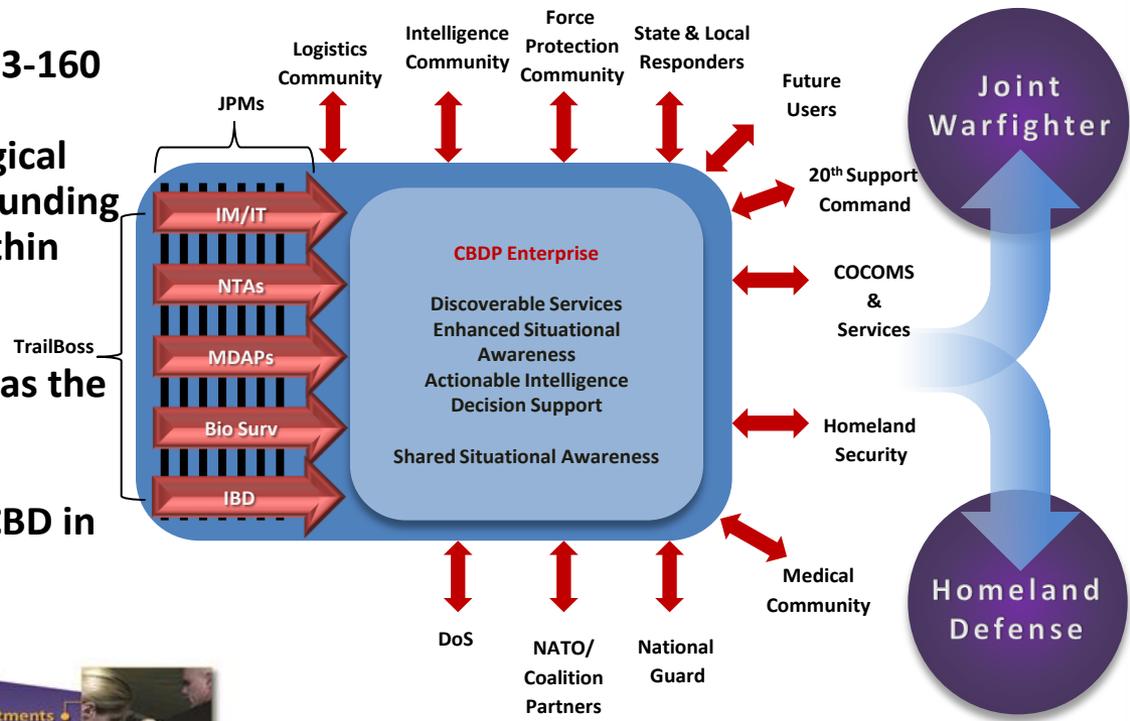
March 14, 2012





# DoD Chemical & Biological Defense Program (CBDP)

- Established by Congress – 1994 National Defense Authorization Act, Public Law 103-160
- Consolidates all DoD Chemical and Biological (CB) Defense Efforts into Defense-Wide Funding Accounts Overseen by a Single Office Within the Office of the Secretary of Defense
- Established the Department of the Army as the Executive Agent
- Program Re-organized to Standup JPEO-CBD in April 22, 2003



•JPEO-CBD Portfolio consists of 50% non-medical equipment (CBRN Individual Protection, Detection, Force Protection, Decon, etc.) and 50% Medical Countermeasures (Vaccines, Medical Treatment)



# Strategic Direction

## Presidential Guidance

H1N1 Pandemic  
Potential WMD Threat

Presidential Policy  
Directive 2  
(PPD-2)

## DoD / Army Guidance

Enhance Army  
Activities in the  
Asia-Pacific Region

Prevent  
Proliferation and  
Counter WMD

Defend the U.S.  
and Support Civil  
Authorities at  
Home

## JPEO Initiatives

Acquisition Reform  
MCM ADM  
Radiological/Nuclear  
Mission  
Non-Traditional Agents  
Able Response

**Key Integrated Efforts:**  
-Biosurveillance  
-GCAS  
-Integrated Base Defense



# Recognize Our Resources

***Aberdeen Proving Ground (APG) is a premier National resource for Combating Weapons of Mass Destruction (CWMD) supporting all mission areas and delivering capabilities to the Warfighter and the Homeland.***

## **Team APG Strengths:**

- Provides National CWMD contributions via a highly skilled workforce through Research & Technology, Systems Development, Test and Evaluation, and Field Operations.
- Fosters partnerships with local and national industry as well as regional academia at all levels.





# Recognize Our Capabilities



Providing Critical Capabilities for the Nation's Defense Against CWMD Threats



# Work With Our Partners

CMA



AMC



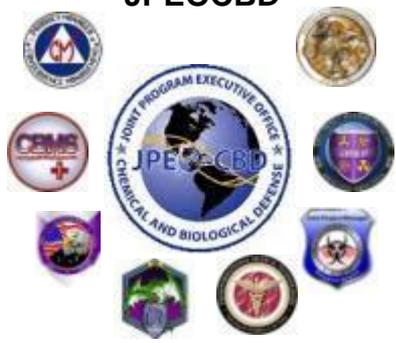
AFMC



20th SPT CMD



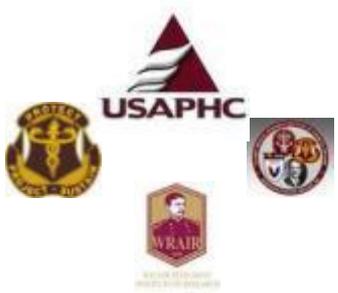
JPEOCBD



RDECOM



USAPHC



ATEC



PAIO



DTRA



JSTO



FBI



DLA



DHS





# The Value of a Technology Corridor

## For Government

- ***Advanced technology industries clustered in a collaborative setting foster scientific advancements and industrial development -- Brookings Institution***

## For Industry

- ***Dynamic clusters offer the market opportunities and the conditions—culture, social networks, inter-firm mobility, access to capital—that encourage new business development. - Federal Reserve Bank of New York Economic Policy Review***
- ***There is a positive correlation between clusters and patenting rates, one measure of the innovation process. -- Michael E. Porter, “The Economic Performance of Regions”***
- ***Clusters enhance firm access to specialized labor, materials, and equipment and enable lower operating costs. Highly concentrated markets attract skilled workers by offering job mobility and specialized suppliers and service providers—such as parts makers, workforce trainers, marketing firms, or intellectual property lawyers—by providing substantial business opportunities in close proximity. -- David Audretsch and Maryann Feldman, “R&D Spillovers and the Geography of Innovation and Production,” The American Economic Review***



# Purpose of Northeastern Maryland University Research Park (NEMD-URP)

## Initial Objectives

University  
Income  
Generating  
Ventures

Become a  
Regional  
Development  
Focus Area

University  
Technology  
through Spin-  
Offs in the  
NEMD Region

**Create a Campus-Like Environment for Developments Created by Universities or by Local Government with Strong University Input**



# Potential Technology/Skill Focus Areas

## C4ISR

- Information Management
- Biotechnology (Bioinformatics)
- Human Language
- Computing Software
- Communications & Networks
- Sensors
- Information Assurance (Cyber)
- Decision Support
- Electronics
- Modeling & Simulation
- Artificial Intelligence

## Chemical/Biological

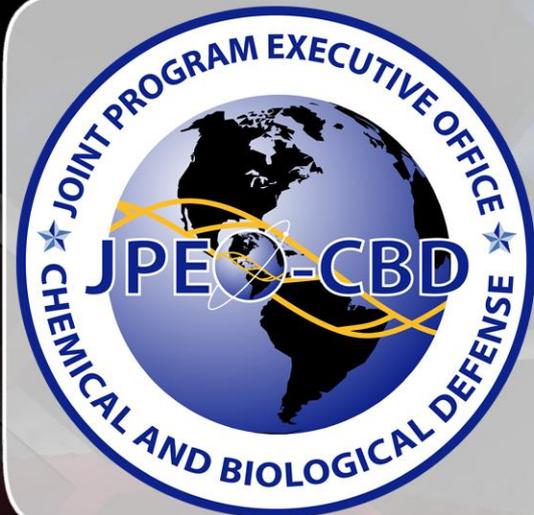
- Biochemistry
- Bioinformatics
- Biomedical
- Molecular Biology
- Systems Biology
- Synthetic Chemistry
- Sensors
- Physical Chemistry
- Forensics
- Toxicology
- Quantum Mechanical Modeling & Simulation
- Material Science

## Other

- Math
- Medical
- Test/Evaluation
- Operations Research

***Focus on Technical Disciplines and Technology Areas Critical to APG and other Federal Agency Needs***

***The BEST Technology and Equipment  
At the RIGHT PLACE  
At the RIGHT TIME  
At the RIGHT COST***



**BG Jess A. Scarbrough**

Joint Program Executive Officer  
for Chemical and Biological Defense

410-436-4141

[www.jpeocbd.osd.mil](http://www.jpeocbd.osd.mil)