

#### *"Meeting Special Operations Forces" Chemical and Biological Defensive Needs"*

PRESENTED TO: USSOCOM CBRN Conference Tampa, Florida December 6, 2005 Open Session

STEPHEN V. REEVES Brigadier General, USA Joint Program Executive Officer for Chemical and Biological Defense (703) 681-9600



#### **Overview**

# • Who We Are

## What We Do

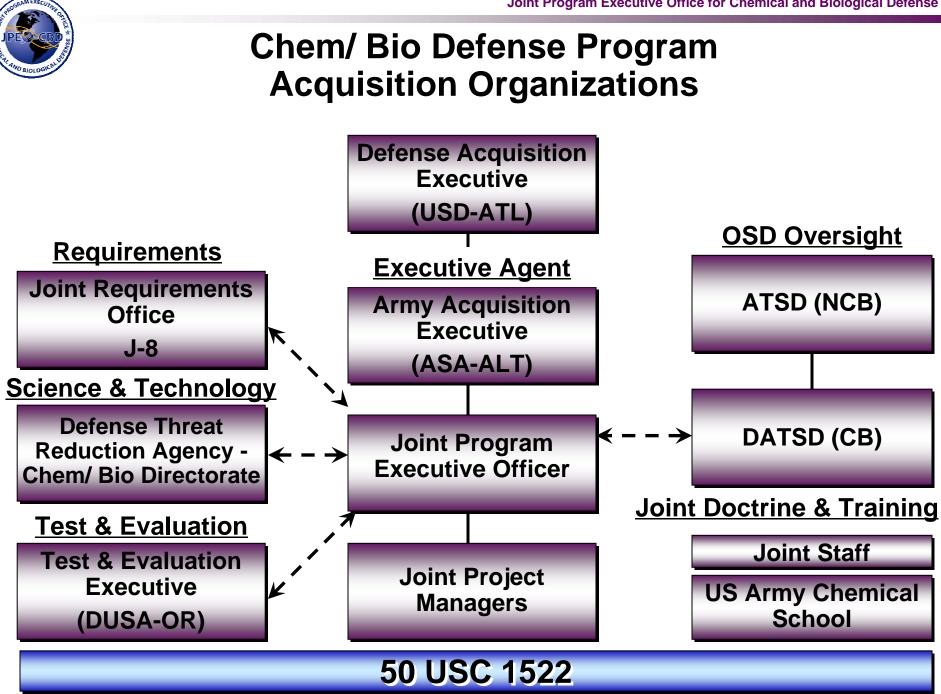
# Joint Warfighting Capabilities



#### Joint Service Chemical and Biological Defense Program



**Delivering Joint Warfighting Capabilities** 





#### Establishment of the Chemical and Biological Defense Program

- 50 USC 1522
  - Creates Assistant to Secretary of Defense for NCB to "Coordinate and Integrate Overall Program"
  - Assigns Army as Executive Agent to "Coordinate and Integrate RDA Programs of all Services"
  - Assigns Army Chemical School as Training Base
  - Directs all Funding be Through a Separate DoD Account
  - Prohibits Services from Budgeting for NBC
  - Requires Annual Report to Congress

Supplemented by OSD Implementation Plan Creating Joint Requirements, Acquisition, Testing and Training Organizations



#### **Mission**

The Joint Program Executive Office for Chemical and Biological Defense is Responsible for Research, Development, Acquisition, Fielding, and Life-cycle Support of Chemical, Biological, Radiological, and Nuclear (CBRN) Defense Equipment, Medical Countermeasures, and Installation and Force Protection Supporting the National Military Strategy



#### Joint Program Executive Office Areas of Responsibility

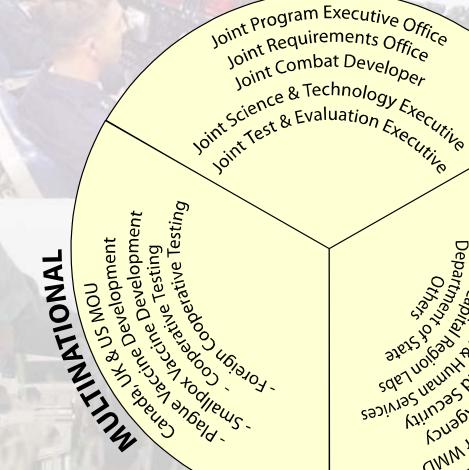
Vaccines Treatments **Diagnostics Chemical & Biological Agent Detection** Individual Protection Information **Collective Protection Systems** Decontamination Weapons of Mass Destruction – Civil Support Installation/ Force Protection

**Total Life Cycle Management** 



#### Joint – Interagency – Multinational Responsibilities

JOINT



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# **JPEO-CBD JOINT PROJECT MANAGERS**



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# Where We Are Going

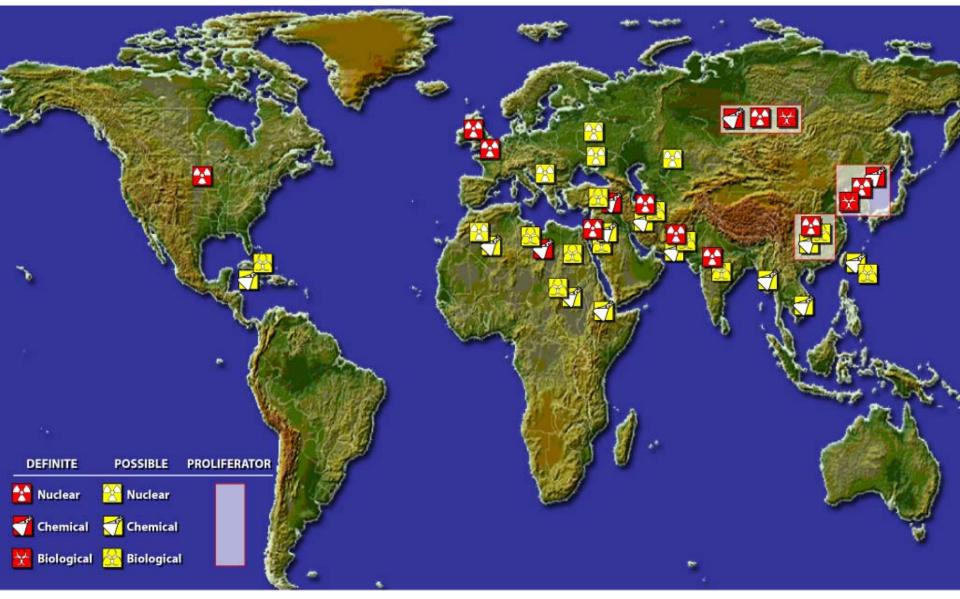


#### **Radical Islamists On Using CBRN**

- "use of nuclear, dirty bombs, chemical and biological weapons by martyrs is justified as part of holy war strategy" (al-Qaeda message board, 11 Aug 05)
- "Attacking Washington Metro with chemical weapons to achieve amazing results" (al-Qaeda message board, 11 Aug 05)
- "The nuclear war is the solution for destruction of the United States." (Radical Islamist website, 26 Dec 02)



#### **State Actors**

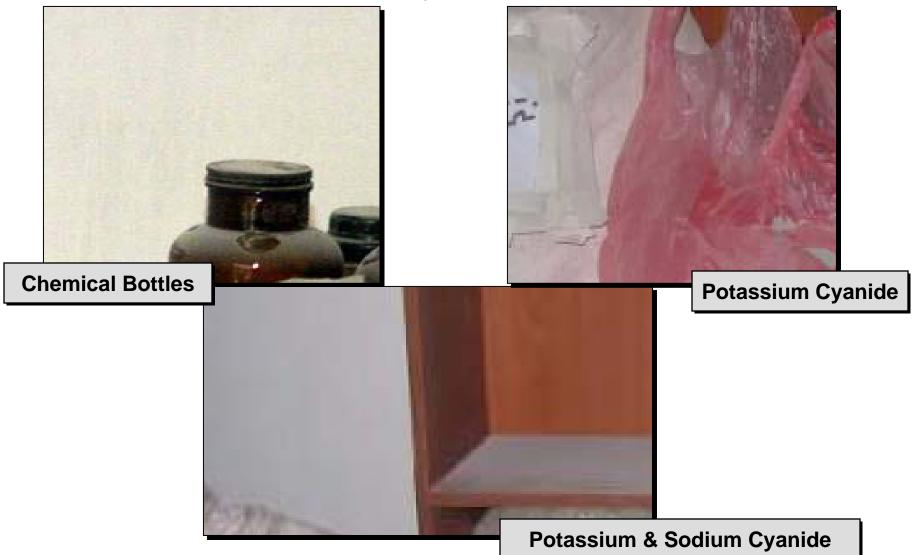


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Joint Program Executive Office for Chemical and Biological Defense

#### So What?

#### Fallujah 2004





## **DoD Chemical and Biological Defense**

#### **Expanding Roles and Missions**

Infrastructure

**Power Projection** 

**Battle Space** 



"Threats"

"Clas	sic"
СВ	W

Bio-Engineered And "Non-Traditional" Threats

Environmental Threats- TICs/TIMs Environmental/ Medical Surveillance Infectious Diseases

#### **Expanded Capabilities Required!**



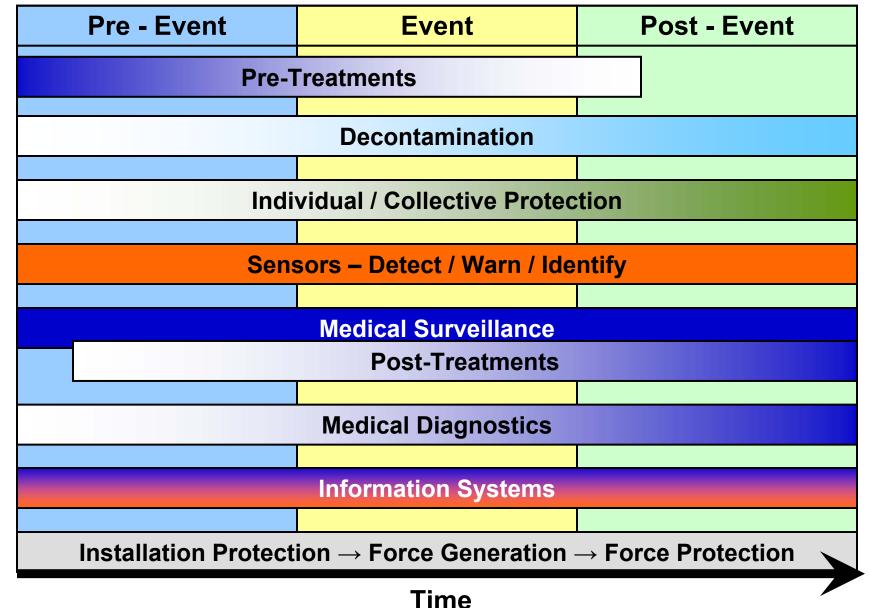
#### System of Systems Approach to Counter the Threat

#### Sustained Combat Power



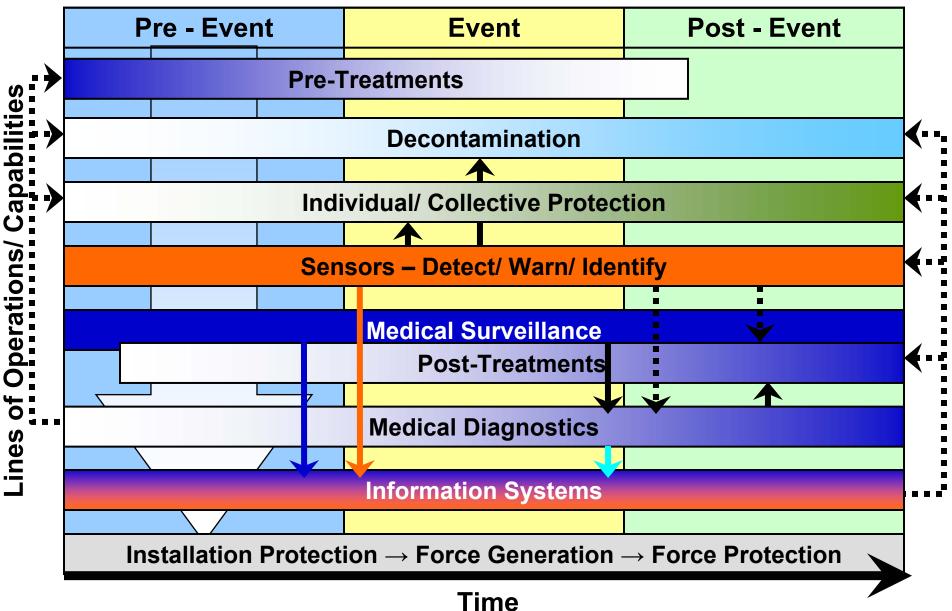


#### **Systems Solutions**



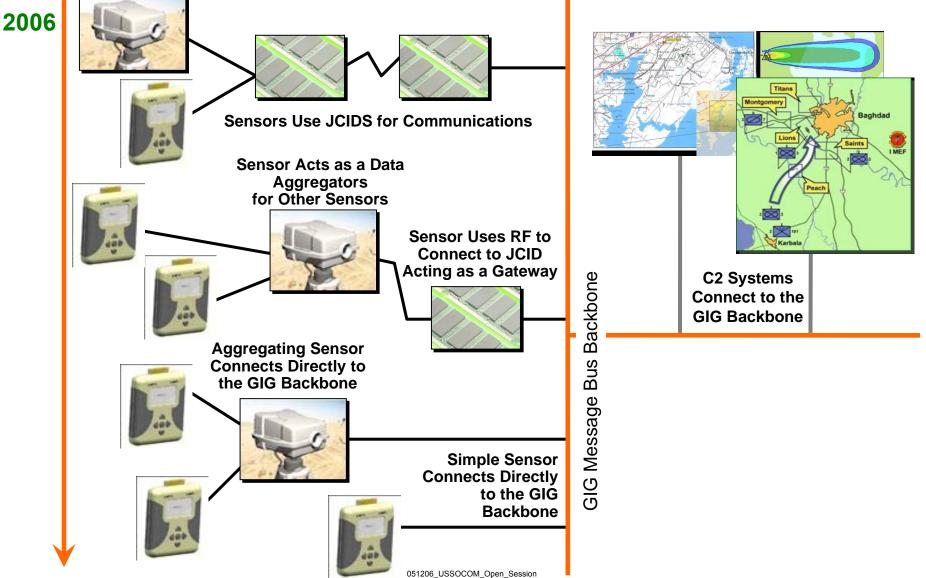


#### **Systems Solutions**



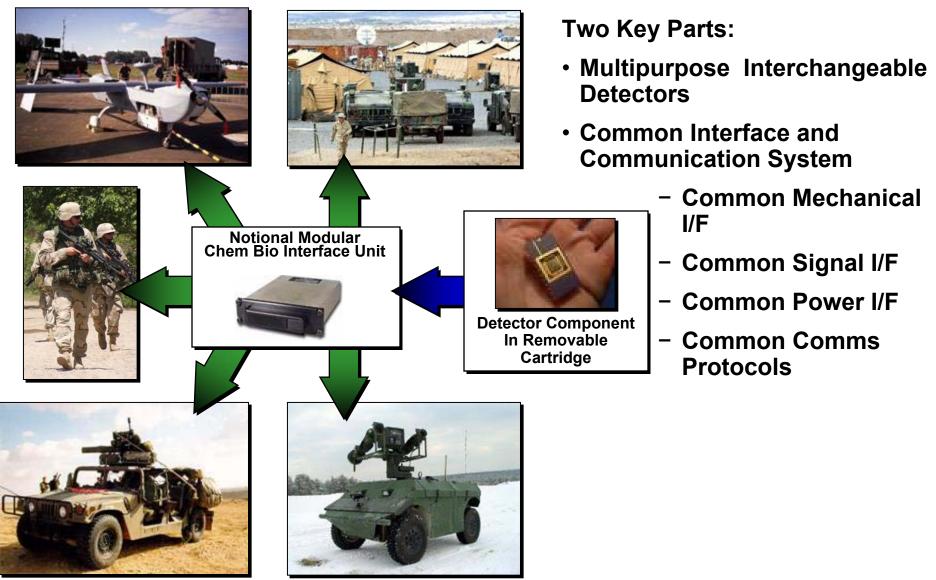


#### Migrating the Interface Data Aggregation and Network Connectivity





## Modularity Vision – A Plug & Play CB System



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### Where We're Going

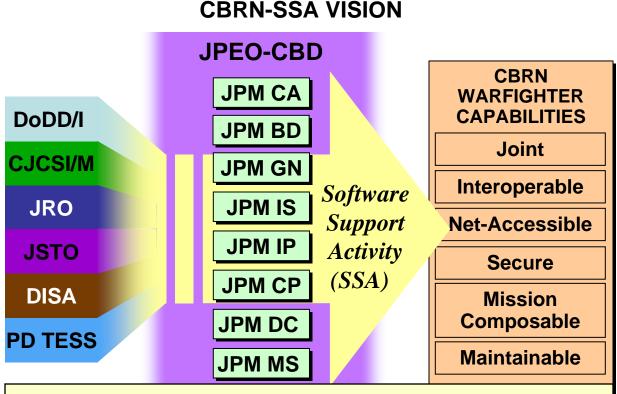
- <u>Start</u> with Net Centricity In Mind
- <u>Start</u> with Accredited Information Assurance Solutions
- Common Infrastructure for CBRN Sensors
  - Bus/ Services Architecture
  - CBRN Modules

#### **"Systems" From Modules**



### Making It Happen Software Support Activity

#### Born August 2004



SSA WORKS TO REALIZE THE VISION OF NET-CENTRIC WARFARE - FULFILLS JPEO-CBD RESPONSIBILITIES REGARDING INFORMATION ASSURANCE, DATA MANAGEMENT, and VV&A

- Architecture and Data Products/ Models
- Modeling and Simulation VV&A Guidelines
- Help Desk
- Contract Language For Data Models



#### **<u>Collectively</u>** How We Make It Work!

- <u>Common</u>, <u>Open</u> Standards and Architectures
- <u>Accredited</u>, <u>Verified</u> and <u>Validated</u> Software
- Technology Transition Agreements Between S&T and Advanced Development
- Lifecycle Modeling and Simulation Strategies
- Information Assurance In <u>All</u> Activities

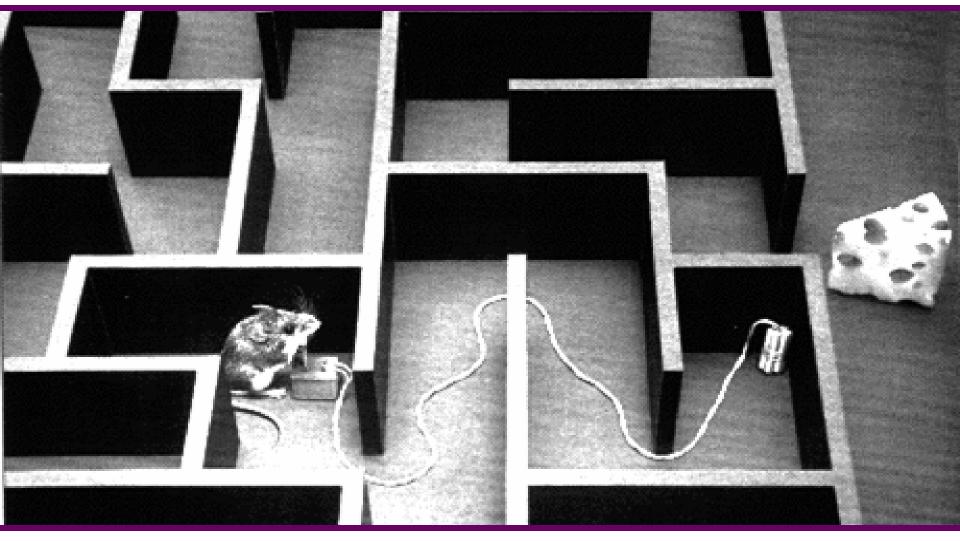


#### What This Means to Delivering SOCOM Capabilities





#### **Leaders Who Can Work the Process**



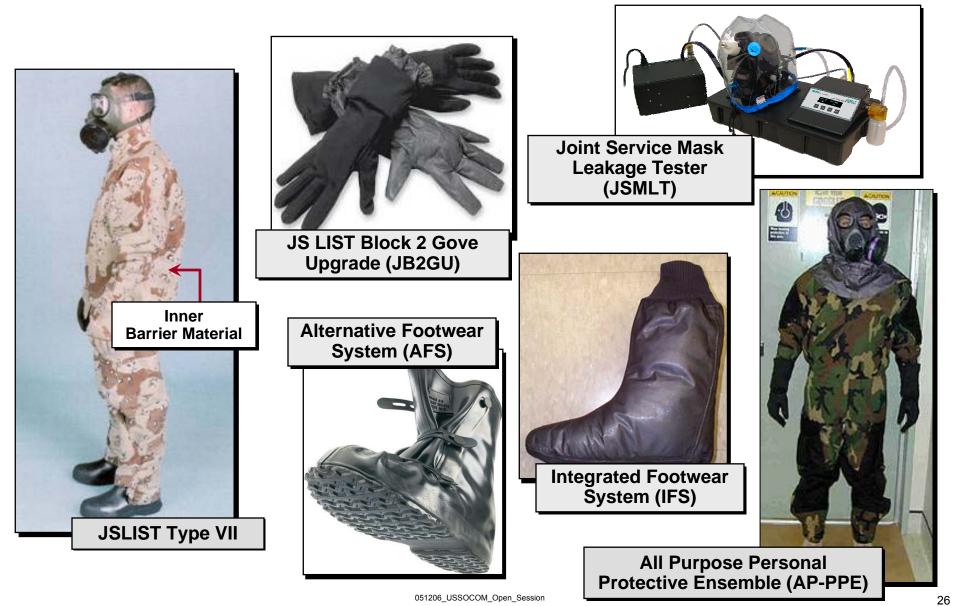
## ... and Field Systems



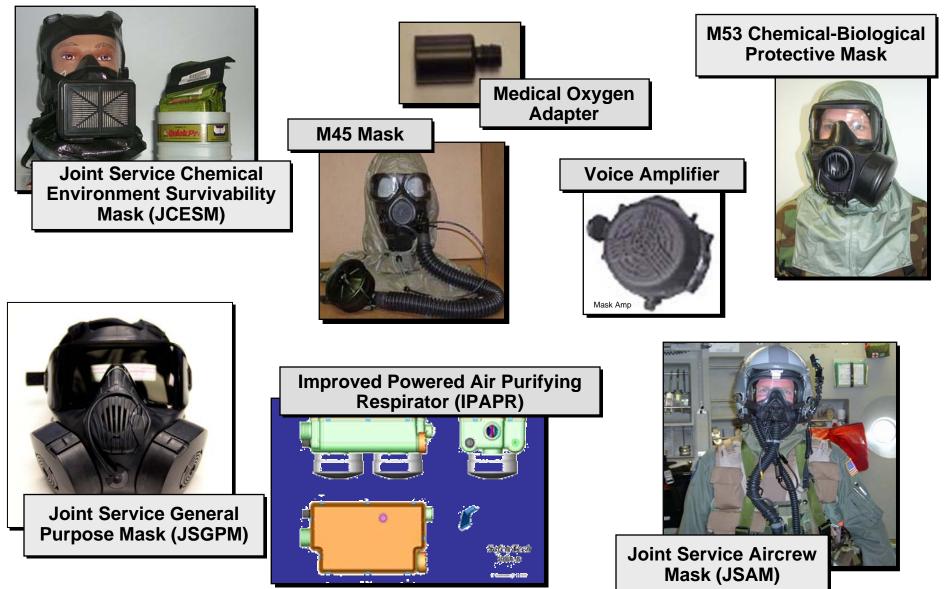
## **Examples of SOF Leveraging Joint Efforts**

- M53 Chemical Biological Protective Mask
- Joint Service Chemical Environment Survival Mask
- Joint Service General Purpose Mask
- Joint Service Aircrew Mask
- Joint Protective Aircrew Ensemble
- Joint Block 2 Glove Upgrade
- Chemical Protective Overboot
- Joint Service Transportable Decontamination System
- Joint Service Sensitive Equipment Decontamination System
- Joint Platform Interior Decontamination











Draeger TIC Detection Kits







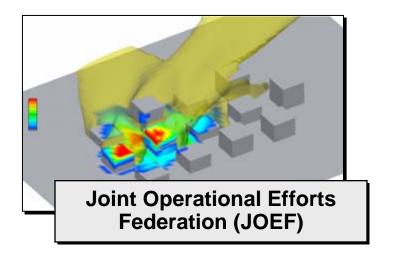
Joint Chemical Agent Detector (JCAD)

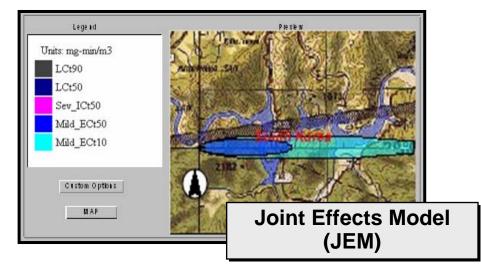
Improved Chemical Agent Monitor (ICAM)









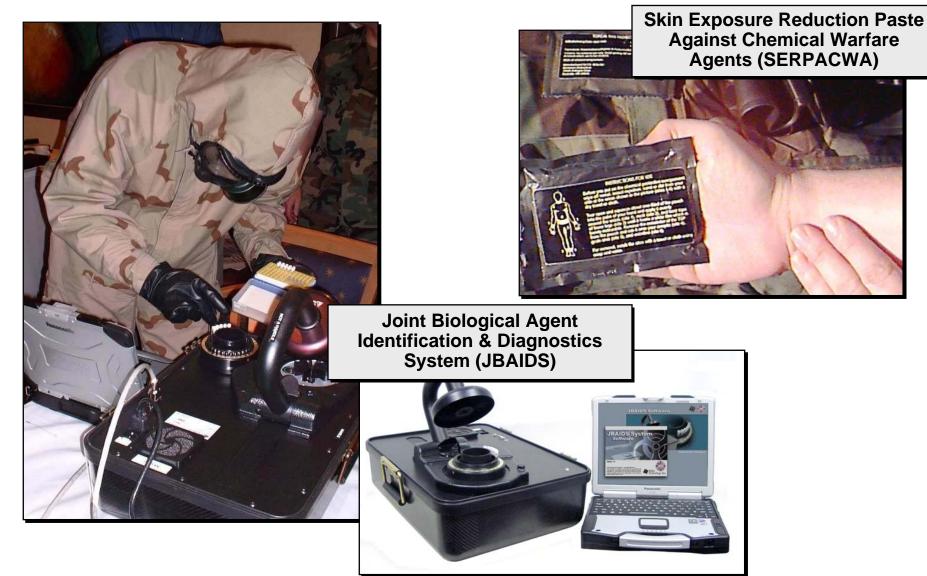














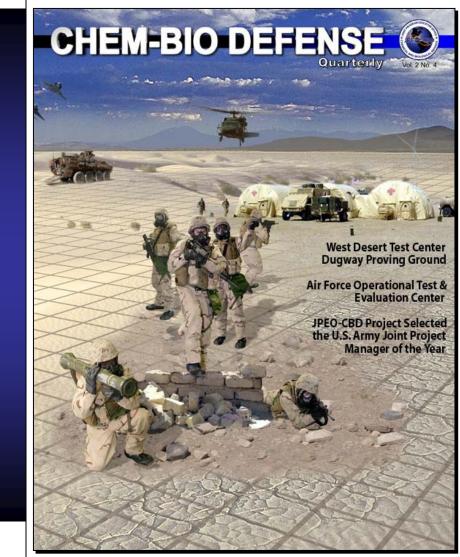
#### "Shameless Advertising"

#### www.jpeocbd.osd.mil



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- Business Opportunities
- JPEO Information
- Links
- New Equipment Training
- Feedback







#### Summary

 Supporting SOCOM Through Direct-support Relationship and On-site Representation

 Framework and Process for Collaboration and Cooperation Supporting SOF CBD Materiel Development Efforts

 Leveraging Joint Services R&D for the SOF Warfighter

#### **Meeting SOF's Chemical – Biological Defense Needs**

