

JOINT PROJECT MANAGER GUARDIAN



**Briefing to
Joint CBRN Conference
June 24-27 2008**

Vigilant Protection and Initial
Response for DoD's
Critical Infrastructure

COL Mark Malatesta
Joint Project Office Guardian
mark.malatesta@jpeocbd.osd.mil

THE GUARDIAN VISION

IMPROVING TODAY TO SHAPE THE FUTURE

PRINCIPLES

Systems of Systems View
 Task Force Approach
 Joint Basing Concept
 Disparate Approaches
 Network/Fusion
 Robotics

Global Information Grid
 Reachback Response Enhances
 Mil-Civ Interoperability

Integrated CBRN, Physical Security and Consequence Management

STRATEGIES

Nested to MDAP Program
 Common DSS Architecture
 Common COTS Suite
 Interoperability of
 Standard Items
 Detect to Protect

CIVIL
 SUPPORT TEAMS

Forward
 Operating
 Base

Airport
 Of
 Debarkation

MILITARY
 DoD INSTALLATION
 PROTECTION
 & RESPONSE

FY07

JOINT
 EXPERIMENT

Inter PM Demonstrations
 Conventional/Non-Conventional
 Disparate Sensor Integration
 Robotics Demonstrations
 DSS-PMC Integration

LAYERED PROTECTION



Seaport
 Of
 Debarkation

FY08

JOINT CONCEPT
 TECHNOLOGY DEMONSTRATION

Inter PM Experimentation
 CBRN/Force Protection Solution Sets
 Toxic Industrial Chemical Threat Defense

FY10-15

INTEGRATED JFPASS
 CAPABILITIES

Transition to Joint Programs of Record
 Spiral Acquisitions
 CARLS
 UCS P3I
 Sensor Integration

FY09

COLLABORATIVE DEMONSTRATIONS

DoD & DHS
 Information System Upgrades
 Interoperability
 LAB LOE

From Foxhole to Fort across to the Civilian Community

Bringing Homeland Security & Defense Together

Department of Homeland Security

Homeland Security Presidential Directives
National Security Strategy

Department of Defense (DoD)

National Response Plan

Installation Protection Steering Group
NORTHCOM Force Protection Working Group/J34
Integrated Unit Base Installation Protection (IUBIP) CBA



- National Incident Management System
- All Hazards
- BioWatch
- Grant Programs

- Instructions
- Directives
- Homeland Defense Strategy
- Anti Terrorism/ Force Protection Policy
- All Hazards



Civil Community



Military Community

Draft
DODI XX
IEM

Integration of Policy, Guidance and Capability Solutions



JPMG Portfolio and Fieldings

PM CERN IPT







Decision Support System (DSS) Equipment (DSE) System (MNS) Telephone Alert System (TAS) **MIC/CV CBRN Analysis** Analytic Laboratory System (ALS) 20th Support Cmbd CBRN Mobile Expeditionary Lab (CMEEL) Uniform Command Suite (UCS)

PM FPS Installations

Automation of Intrusion Detection and Entry Control Integrated Commercial Intrusion Detection System (ICIDS) Automated Installation Entry (AIE) Access Control Point Equipment Program (ACPEP) **Robotics** Mobile Detection Assessment Response System (MDARS) Force Protection Equipment Demonstration (FPED)

PM FPS Tactical

Unattended Ground Sensors Battlefield Anti-Intrusion System (BAIS) **Sensor Integration, Command and Control** Joint Force Protection Advance Security System (JFPASS) **Non-Intrusive Inspection** Non-Intrusive Inspection Systems (NIS)

Fielded	
Installation Protection Program (75)	
Non-Intrusive Inspection Systems (148)	
Civil Support Teams (57)	
Battlefield Anti-Intrusion Systems (785)	
Integrated Commercial Intrusion Detection Systems (46)	
Automated Installation Entry (8 systems by end of FY08)	

From Fort to Foxhole

Critical Capabilities



Across the Fence

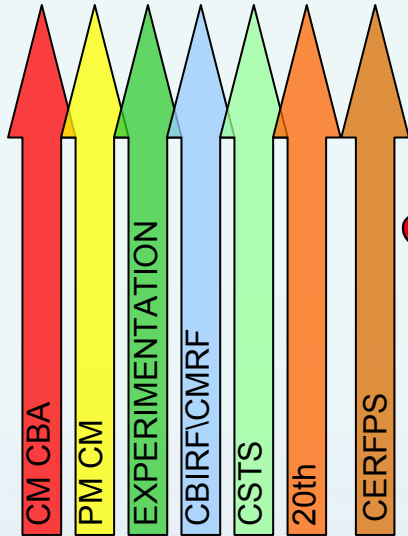
Worldwide



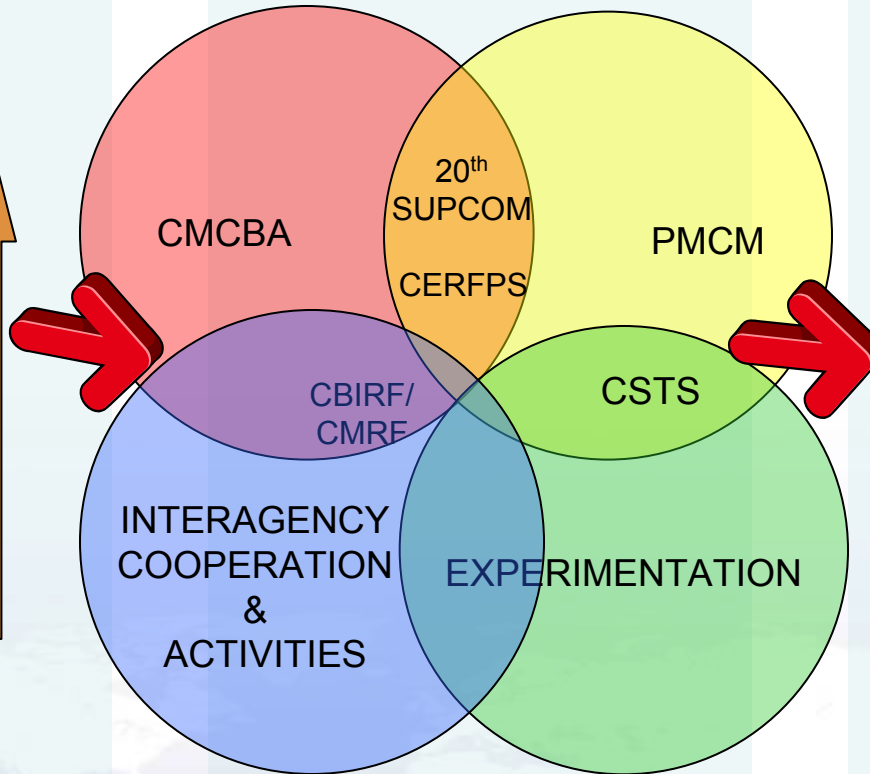
Consequence Management Objective

NOW

OPERATIONAL CAPABILITY



NEAR TERM



FY10 POM

COMMON OPERATIONAL EQUIPMENT



Stove pipe/Duplicate Capabilities
Service Sponsored
Service Managed
Adhoc Reachback

Codified Mission & Capabilities
Increased Equipment Commonality
Joint Units & CBPD Funded
Centralized Management

Nested Mission & Capabilities
Common Equipment
Improved Capabilities
Cost Efficient Management
Enterprise Reachback

PM CM specialized capabilities in support to Civilian Authority Mission



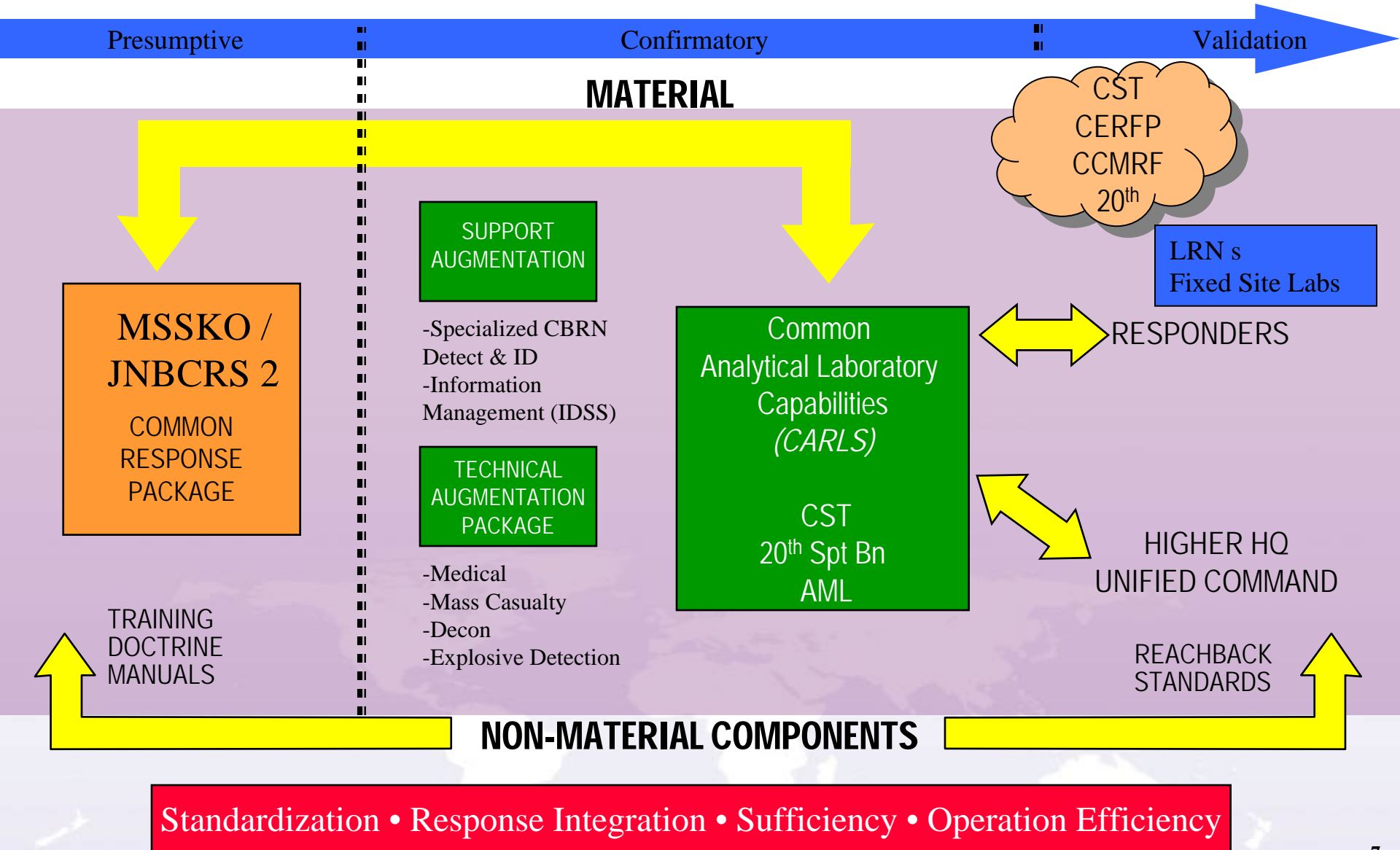
Consequence Management

<p>Fielding improved Analytical and Incident Management capabilities to NGB / CSTs</p>	<p>→</p>	<ul style="list-style-type: none"> ● Expanded TIC/TIM detection capability ● Broader range of sample matrixes ● Improved communication capabilities including secure video, satellite communications, and secure VTC
<p>Equipping and Fielding 20th Support Command WMD CE, TEU, Nuclear Disarmament Teams, and Mobile Laboratories</p>	<p>→</p>	<ul style="list-style-type: none"> ● Provided 20th with advanced mobile Chemical, Biological, Radiological and Explosive identification capability for short-term and extended missions, supporting DHS and contingency operations
<p>Fielded 81 Chemical / Biological Incident Response trailers to the U.S. Army Reserve Reconnaissance / Decontamination Platoons</p>	<p>→</p>	<ul style="list-style-type: none"> ● Providing rapid deployability for Army Reserves to support civilian authorities in response to a CBRN event





Specialized CM Units Operational Capability Construct





Common Analytical Response Laboratory System (CARLS)

- **Modular, Mission-Driven Material Solution For Mobile Lab Analysis**
- **Supports CSTs, 20th SUPCOM, other service response units, and Service Medical Laboratories**

Key Capabilities

- Information Management Provides a Net Centric Approach with Common Information Backbone for reachback to subject matter experts
- Automation Decreases Required Skill Set For Sample Handling & Integrates Data Fusion and Decision Support
- Common Analytical Capabilities Across Portfolio Increases Confidence, Sampling Capability, and Supports Homeland Defense & Forward Deployed Chemical, Biological, Radiological and HY Explosive Detection Equipment
- Modular Approach
 - Analytical equipment
 - Analytical processes
 - Personnel staffing
 - Expandable laboratory design

Provide A Common Solution To Accommodate All Missions



COTS Life Cycle Management Process

Issue:

- Incomplete Life-Cycle Management and Institutionalization
- Disparate Levels of Capability Across DOTMLPF
- Suspect Fiscal Profiles for Technology Refreshment
- Dispersed, Fragmented and inconsistent Product Data

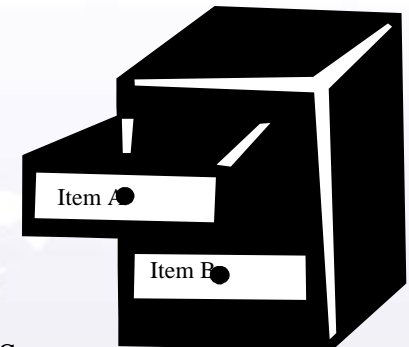


DOTMLPF – PG
 Training Packages
 Test Data
 Technical Data
 Vendor Support
 Warranty Data

\$1.5M
 Investment

Solution:

- Single Point of Management
- Portfolio Approach
- An End to End Enterprise Process
- Single Repository of Product Information
- Sustainment functions incorporated in to key Service Institutions



380 items / \$270M
 of Fielded Capability



COTS Data Management

COTS-JACKS Info Fusion (CJIF)

- Provides users with access to multiple responder equipment data bases, simplifying information gathering and analysis requirements
 - Provides a single, multiple word search across multiple data sources and domains
 - Displays integrated DOTMLPF results
 - Provides the ability to drill down into assessments
 - Establishes a sustainment data base
- Supports improved decision making and investment strategies
- Provides access to shared data to enhance Mil Civ interface and interoperability
- Automated data sharing between JPEO, ECBC, and DHS FEMA
- Ensures a portfolio approach and community buy-in with the introduction of the COTS IPT and Working Groups

J.A.C.K.S.
Joint Acquisition CBRN Knowledge System

Contacts Feedback Help

JACKS Equipment Training Shelf Life Publications

Mock Up

CJIF Filter: Vendor Item Name

Equipment Class	Item Name	Description	Vendor Name	NSN	Part Number	CAGE	Data Source
Detector	BAWS	The Bio-Aerosol Warning Sensor (BAWS), a UV-fluorescence-based detector of aerosols of biological origin.	N/A	N/A	154515	45645	C-SPA
Detector	Slide Detector Adapter	ADAPTER,DETECTOR SLIDE	N/A	6665-01-484-3128	1545233	23070	JACKS
Detector	DET INDIV Individual Nerve Agent Detector-MITLL Entry	Individual nerve gases detector (Detindiv) for unmasking procedure at the individual level after or in suspicion of nerve gas attack.	JHU	N/A	555154515	25785	JHU
Detector	Draeger Civil Defense Simultest (CDS) Kit	Kit that utilizes specially designed and calibrated detector tube sets to simultaneously test for eight different chemical agent groups	Draeger	N/A	6676715	18465	RKB
Detector	Detector Kit,Chemical Agent	Detector chemical agent	N/A	6665-00-217-1096	25255	U3092	JACKS

**Integrates results
Provides ability to filter
Links to source database**

Better more rapid decisions from better data



COTS Life Cycle Management Process

<p>Institutionalized COTS initial/sustainment training with the USACMLS</p>	<p>—————></p>	<ul style="list-style-type: none"> ● Provides more consistent and accurate training products
<p>Established a single Life cycle Management Center (RI) for COTS components</p>	<p>—————></p>	<ul style="list-style-type: none"> ● Provides improved asset visibility, reduced sustainment costs and improved response ● Improved understanding of TOC and projection of obsolescence
<p>Incorporated high density COTS into Portfolio, Integrating the high density commercial technologies into the sustainment process. Ahura / Cobra / Drash / multiRae</p>	<p>—————></p>	<ul style="list-style-type: none"> ● Provides user community with validated system performance, consistent training products, and timely sustainment support ● Negotiated reduced investment and sustainment costs ● Improved interoperability across user groups <ul style="list-style-type: none"> ● Ahura quick look; resulted in recommendation to institutionalize; identified gaps; created support tasks and new lesson plans; updates to PME course and Dismounted Recon Course ● Cobra quick look; recommendation to institutionalize; created new lesson plan ● Drash quick look resulted in creating new lesson plans updating the Mass Causality Decon Course ● MultiRae quick look resulted in new lesson plans updating the CSSC, CST and Dismounted Recon Courses



TICPDE

● Past TIC/PDE

- A 2003 CENTCOM UNS effort, supported in an adhoc manner
- 16 Sets in Afghanistan (2) and Iraq (14) comprised of approximately 150 high demand CBRN items.

● Present TIC/PDE

- Currently working with the USACMLS to institutionalize TICPDE training
- Equipment and training will be supplementing the Chemical School CBRN First Responder Course
- Refreshed Capability
 - TVI Decon Shower
 - SCBA
 - Suits
 - Detector, Chemical, HAZMAT ID
 - Detection, Instrument, MultiRAE Plus
 - Sampling Kit, Combat, Quicksilver
 - Cart, Multi-Purpose
- All sets updated with Pocket Reference and Decision support

150 pieces of equipment
 - Detection
 - Identification
 - Protection
 - Surveillance



Community effort
 made it happen

Will Transition to JNBCRS2 at earliest opportunity



CBRN IPP Tiered Program

75% Joint Commonality

- 75 Bases fielded (CONUS/OCONUS)
- Activated the IPP web portal providing CBRN IPP information and instructional material
- Provides enhanced biological detection capability:
 - Portable detection capability on tier 1 installations
 - Fixed capabilities on tier 2
 - Incorporates BioWatch surveillance capabilities (where available)
- Installation decision making capabilities and interoperability
- Expanded mil-civ partnerships within federal agencies and at local jurisdictions in program exercises
 - 5 Joint TTX's conducted / 14 scheduled
 - Incorporating BioWatch CONOPS into the IPP Baseline Tier
- Improved policy guidance and standards thru a new Emergency Management DoD Instruction

Installation CBRN Defense

BASELINE

Improved DSS, Bio Surveillance Shelter-in-Place

TIER 1

TIER 2

Training products Planning, CONOPS & MAA templates, Exercise scenarios & criteria

WARNING & NOTIFICATION

DNDO

DHS BioWatch Coverage

COLPRO, DSS, Escape masks & IPE

PHARMACEUTICALS

RAD PORTAL MONITOR (Legacy)

Local Responders

MEDICAL SURVEILLANCE

EMERGENCY RESPONSE

CBR Portable Detection, Mass Casualty, IPE, IMS, Pharmaceuticals, Shelter-in-Place, Bio, Medical Surveillance

CHEM/BIO SENSORS

Military-Civilian Mutual Support

1,705 classes
5,638 classroom hours
20,054 students
175 separate exercises
1,195 pallets deployed



CBRN IPP Baseline Tier Portal

WEB PORTAL:

<https://jacks.jpeocbd.osd.mil>

<https://us.army.mil>



• Developed in conjunction with DHS efforts

• Available to all DoD personnel and dependents

TIER 1

NET

Senior Leadership Course

Supplemental Tech Manual

MAA Templates

TIER 2

CBRN Links

Exercise Scenarios

Base Population Awareness Course

Military-Civilian Mutual Support



JPMG/BioWatch Cooperation

- **Facilitate introduction between local BioWatch and Installation POCs**
- **Coordinated and facilitated local involvement in CBRN IPP Table Top Exercises, Functional Exercises, and Full Scale Exercises**
- **Demonstration Project with ASAP Collectors**
- **Working as a part of an OSD (HD) team to leverage an integrated Installation Protection Capability that improves the National Detection and Response capability**



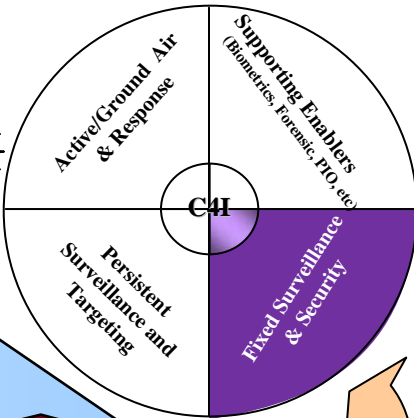
Capabilities Convergence



FPJE

JFPASS

Macro Level
"Supportive Environment"



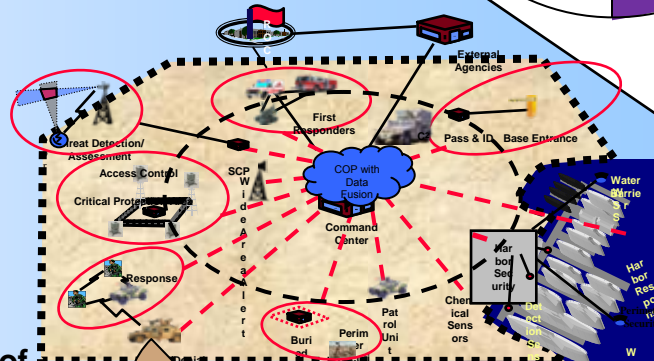
Physical Security Equipment

Integrated Physical Security Capability

Physical Security & CBRNE Sensors Integration using Adaptive Fusion Algorithms

Layered Approach Focused on Passive/Surface

Real Time Fusion of Disparate Sensors, Actions and Information



Micro Level

Integrated CBRNE, Ground Security, Surveillance and Response Capability



CBRN FoS

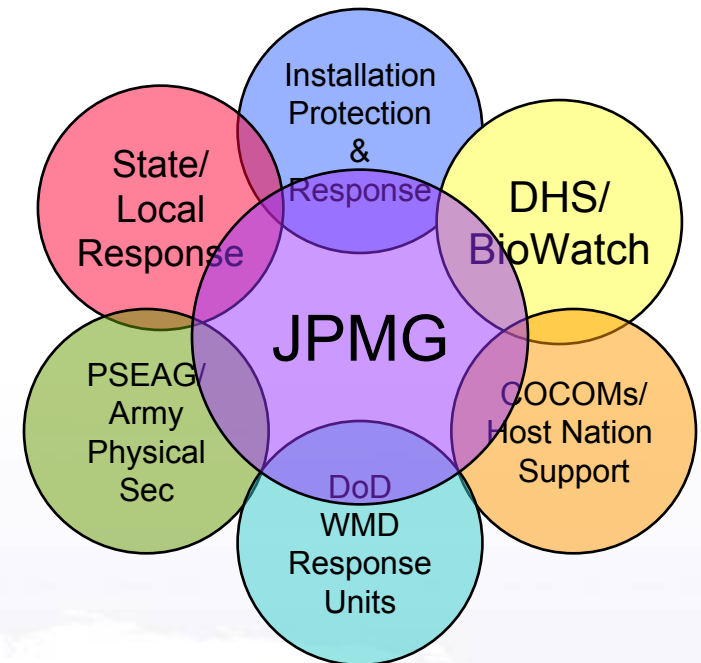
CBRN Information Mgmt And Decision Support

Integration of disparate systems into an enterprise solution reflecting a synergistic merging of capabilities to support an expanded mission space



Summary

- **Delivering CBRN and Consequence Management capabilities today, integrated with appropriate policy and guidance**
- **Integrating a total DOTLMPF COTS/GOTS approach into a portfolio protection and response capability**
- **Engaged in increasing partnerships with DHS to improve interoperability and response integration**





BACKUP SLIDES



Institutionalizing TICPDE for the Warfighter

