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Support the Force

Improve Fielded Capabilities

Build the Future

PRESENTED TO:

**Joint CBRN Conference
Fort Leonard Wood, MO**

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Major General, USA
Joint Program Executive Officer
for Chemical and Biological Defense
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Distribution Statement A: Approved for Public Release



Supporting the Force



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THE THREAT IS REAL



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Toxic Industrial Chemical Detection and Protection Equipment Set (TIC PDE)

Commercial-Off-The-Shelf (COTS)

Sensitive Site Exploration (SSE)

Additional Training Sets Approved Under NSERP to Address User Needs



Sets include: HAZMAT ID, MultiRAE Plus

Meets CENTCOM Operational Needs Statement (ONS)



Joint Acquisition CBRN Knowledge System (JACKS) Information Response Center (IRC)

- Consolidates all CB Hotlines
- Operates on a 24/7/365 Basis
- Provides Single Entry Point for all CB Defense Equipment Information

“One-Stop-Shop” for CBRN Equipment Information

- Total Asset Visibility
- Specifications and Standards
- Fact Sheets
- Advisory Messages
- Shelf-Life Information
- New Equipment Training

HOTLINE SUPPORT

1-800-831-4408

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

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

J.A.C.K.S.
Joint Acquisition
Chemical Biological Radiological Nuclear
Knowledge System

Directed By: JPEOCBD
Joint Program Executive Office
Chemical and Biological Defense

Joint Program Executive Office for Chemical Biological Defense
Joint Acquisition Chemical Biological Radiological Nuclear (CBRN) Knowledge System

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Fully-Integrated CBRN Information Center

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Improving Fielded Capability

15 New Capabilities

34 Capabilities Currently Fielding

PROTECTION



INFORMATION/ ANALYTICAL SYSTEM



MEDICAL



SURVIVABILITY





M93A1P1 FOX NBCRS Upgrade

- Improved RPG Protection: Slat Armor
- Improved IED Fragmentation Protection
- Up-Gun to M2 Machine Gun
- Common Remotely Operated Weapon System (CROWS)
- Enhanced Communications (VIC III)

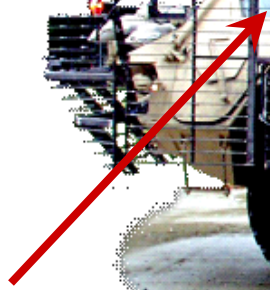
CROWS Increases Lethality



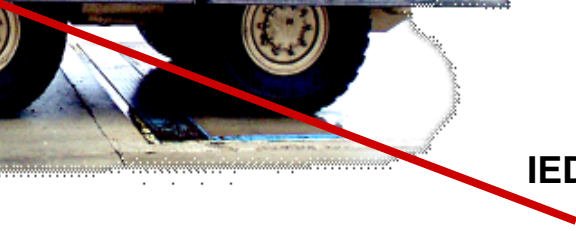
Slat Armor Increases RPG Protection



Ballistic Glass in the Front Crew Compartment Increases Fragmentation Protection



IED Armor Increase IED Protection



Enhanced Survivability and Lethality



Individual Protection



Joint Service Lightweight Integrated Suit Technology (JSLIST)

- *Universal Camouflage Pattern*
- *Type II: Most Application*
- *Type VII: Special Ops*



Joint Service Mask Leakage Tester (JSMLT)



JSLIST Block 2 Glove Upgrade (JB2GU)
(24 hours of protection / up to 30 days of wear)



Alternative Footwear System (AFS)

Integrated Footwear System (IFS)



- **Increased Durability**
- **Reduced Weight and Improved Fit**
- **Enhanced Suit Closures and Higher Confidence**
- **Reduced Heat Stress by 15%**



Individual Protection Fieldings



Joint Service Chemical Environment Survivability Mask (JSCESM)



Joint Service General Purpose Mask (JSGPM)

Improved Fit, Increased TIC Capability, Reduced Burden



Medical Treatments – Improved Nerve Agent Treatment System (INATS) / Advanced Anti-Convulsant System (AAS)



AAS: Replaces Currently Fielded Convulsant Antidote for Nerve Agents

Faster Acting and Increased Efficacy Protects Nerve Agent-Induced Seizures, Reduces Neurological Damage and Prevent Seizure Reoccurrence

Enhanced Treatment Regimen Broad Spectrum of Nerve Agents



INATS: Replaces Currently Fielded Oxime



Collective Protection Fieldings (Ongoing and Upgrades)



Collectively Protected Expeditionary Medical Support System (CP EMEDS)



Collectively Protected Deployable Medical System (CP DEPMEDS)



Collectively Protected Small Shelter System (CP-SSS)



Chemical Biological Protective Shelter (CBPS)



Shipboard Collective Protected System (CPS)



Chemical Biological Medical System Fielding

**Joint Biological Agent
Identification and Diagnostics
System (JBAIDS)**



**Rapid Identification and Diagnostic Confirmation for BWA
and Other Pathogens**

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Decontamination Fieldings



**Lightweight Multipurpose
Decontamination System
(LMDS)**

**Replaces
M17**

**Army ONS – Modified COTS Interim Capability Prior to
Joint Service Transportable Decontamination –
Small Scale**



Joint Service Personnel Decontamination System (JSPDS)



Reactive Skin Decontamination Solution (RSDL)

Improved Performance - Increased Capability for Current and Emerging Threats

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Installation Protection Program (IPP)



Capabilities:

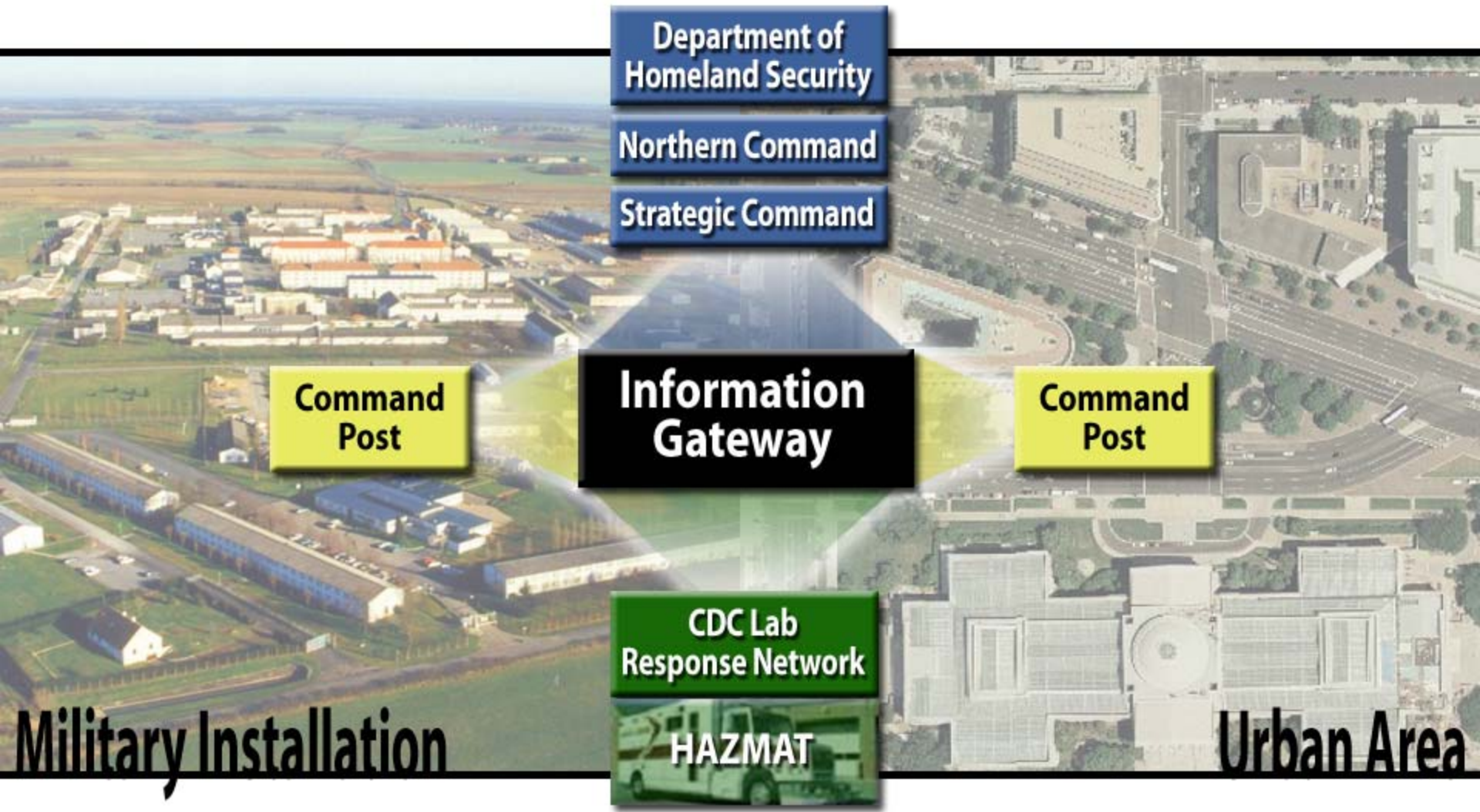
- **Integrated and Effective Protection**
 - Respond and Recover
 - Effective and Affordable
- Detection
- Warning
- Decontamination
- Information Management
- Medical Protection, Surveillance, and Response

IPP Fielding: 44 Locations
First Responder Program: 32 Locations

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Civil-Military Network Integration





Supporting the National Guard: JPM Guardian Fieldings

CST Unified Command Suite (UCS)



Increment 1

Increment 1 Components



KU Band
System

Wireless
Camera/
Transceiver



Transportable
Communication
Package (ADVON)



Commanders Vehicle

Increment 0



CST Analytical Laboratory System (ALS)

Increment 1 Analytical Upgrade

Chemical / Biological Agent Detection & Analysis



JBAIDS - PCR



IMS



FT/IR

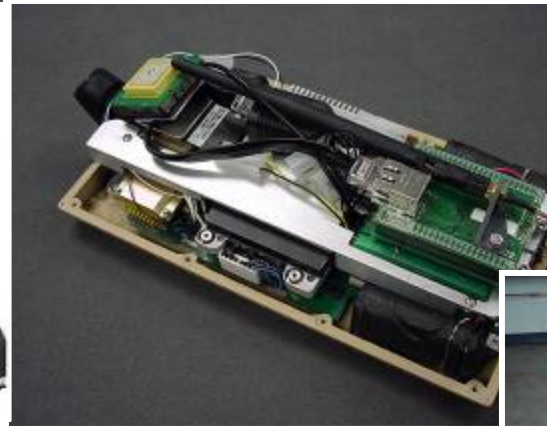
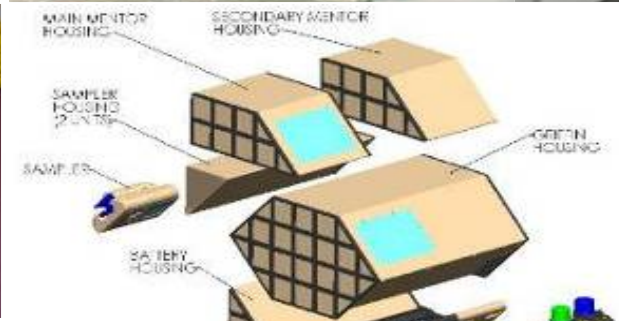


M1M

**New JPM: Consequence Management
Enhanced BW / CW and TIC Capability
Increased Interoperability**



Building the Future





Joint Warfighter Experimentation



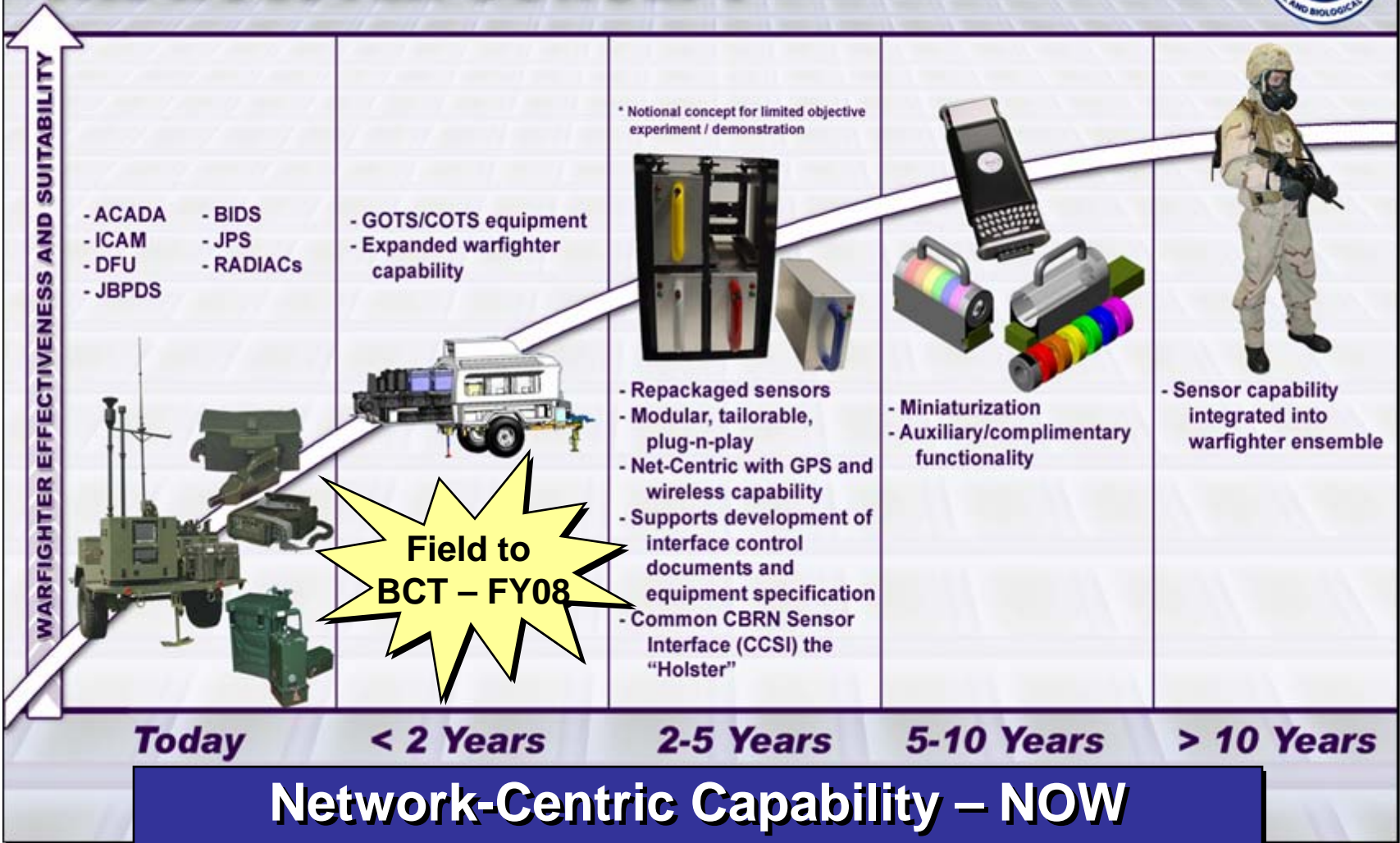
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Building the Future - NOW



THE HOLSTER CONCEPT



**Network-Centric Capability – NOW
Foundation for the Future**



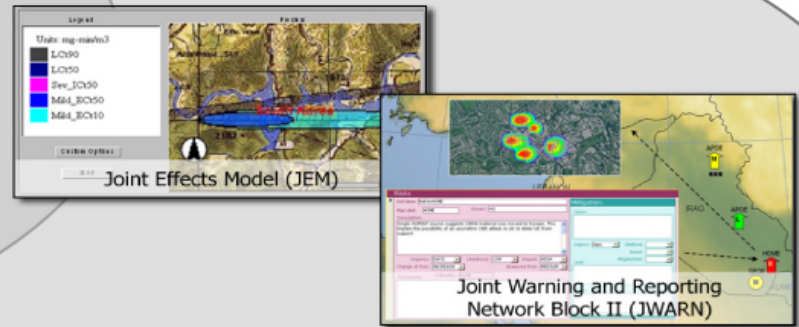
Major Future Fieldings

Eighteen Planned New Capabilities

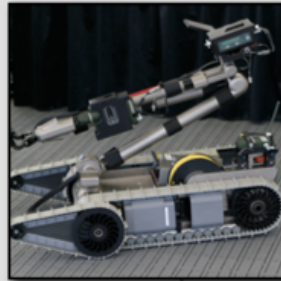
DETECTION



INFORMATION SYSTEM



CUGR ACTD



PROTECTION





Major Defense Acquisition Program (MDAP) Chemical/Biological Defense Program Support



Expeditionary Fighting Vehicle



CBRN REQUIREMENTS

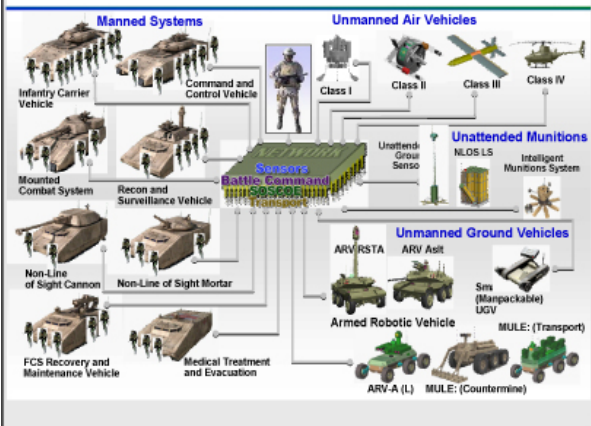
**CBR Detection
Battle Management
Integrated Early Warning
Collective Protection**

**Decontamination
Individual Protection**

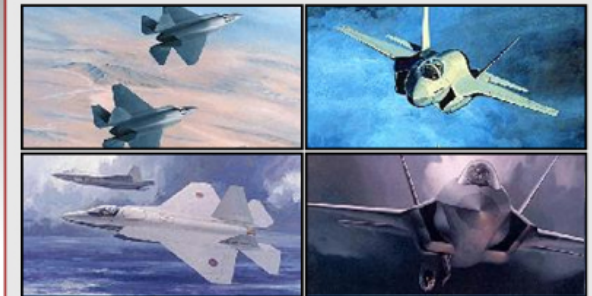
Stryker



FUTURE COMBAT SYSTEMS



Joint Strike Fighter

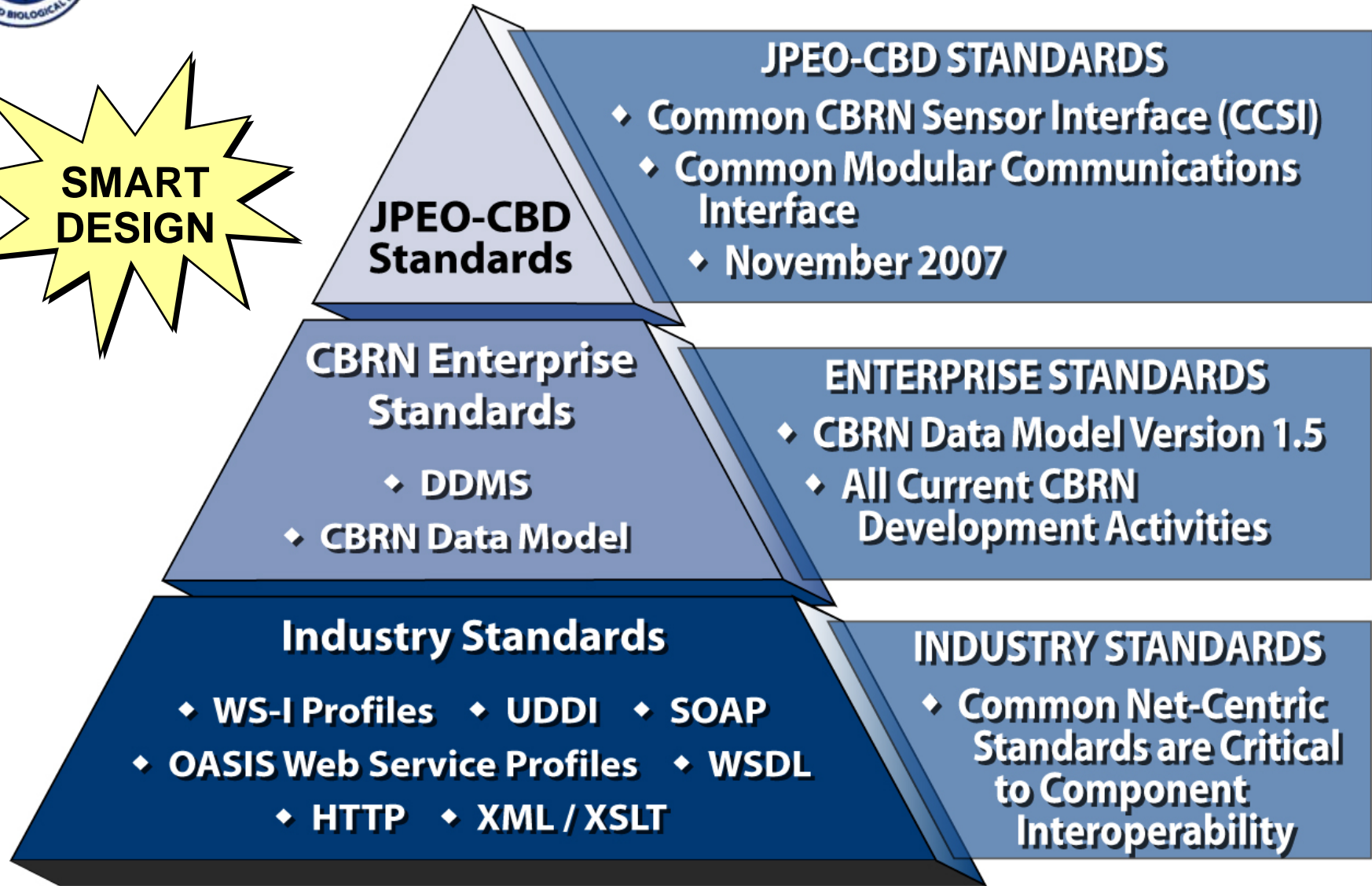
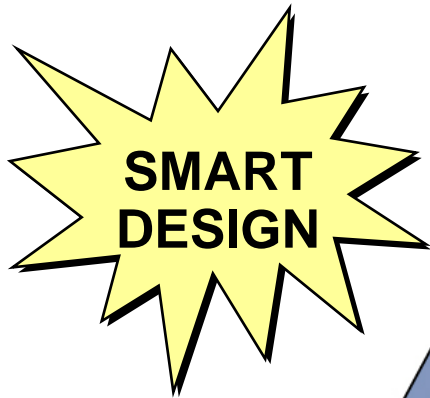


**OTHERS
Bradley, THAAD,
CFPI, UAV...**

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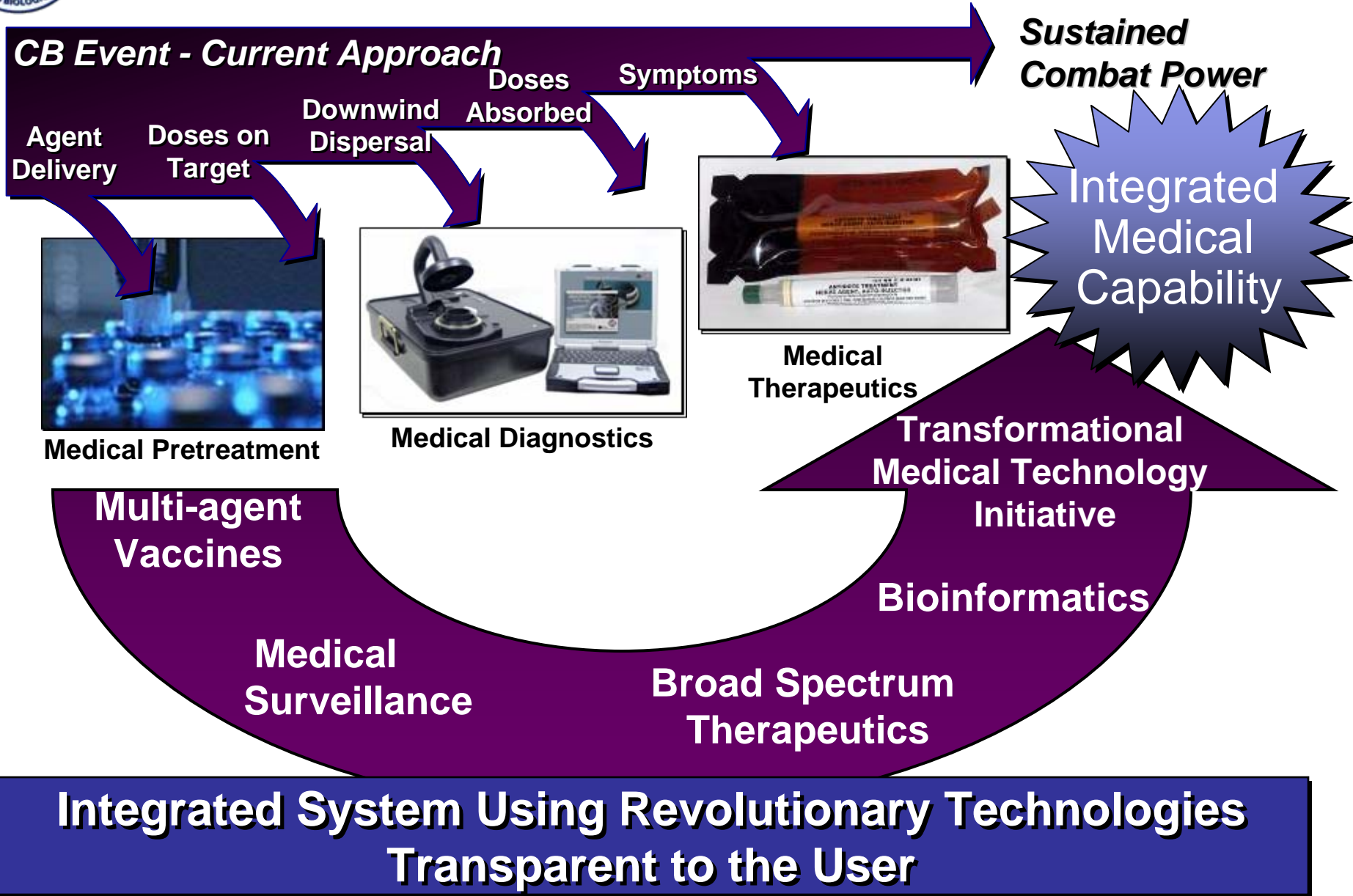
Software Standardization



Interoperability Built From The Bottom Up – Common Standards!



Medical System Integration

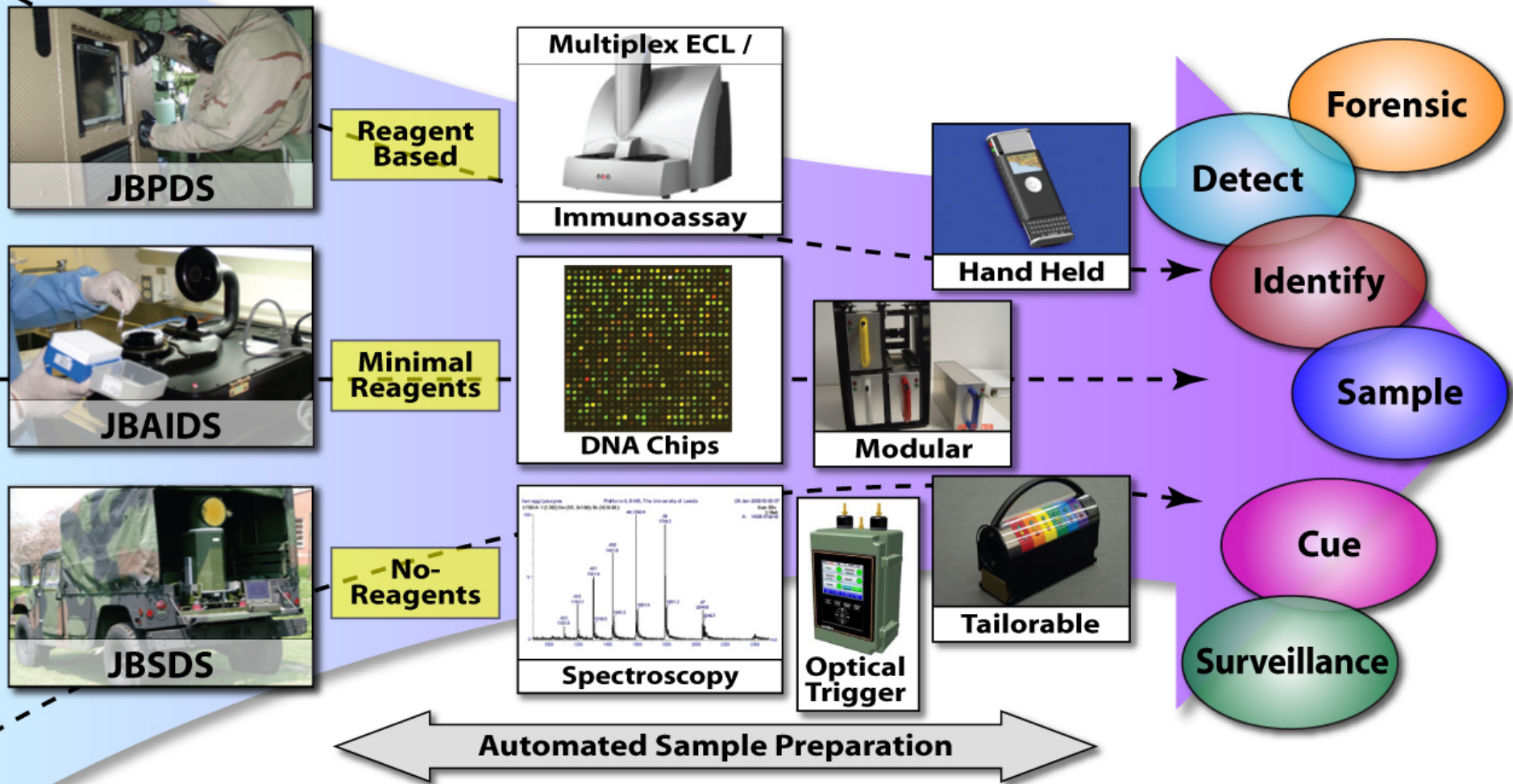




Bio-Sensing Vision

Develop and Field Advanced Bio Sensing Technologies

- Multi-Plex for Broad Range of Threats
- Tailorable for Threat/Mission
- Modular Across Sensing Modality
- No/Minimal Reagents

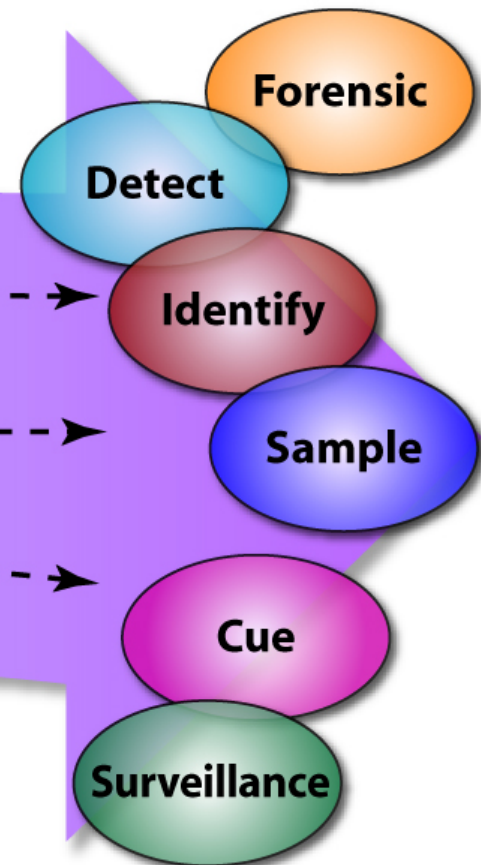
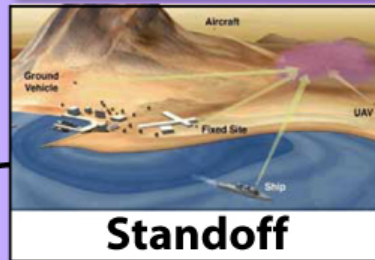
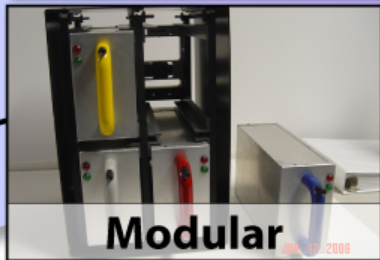




Chemical Detection Vision

Develop and Field Integrated Systems

- Broad Spectrum Capable (TIC, Advanced Threat)
- Tailorable for Threat/Mission
- Modular Across Operational Needs





Decontamination Vision

**Reduce Logistics Burden
Eliminate Hazardous Material (ClO₂, H₂O₂)**

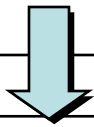
Today



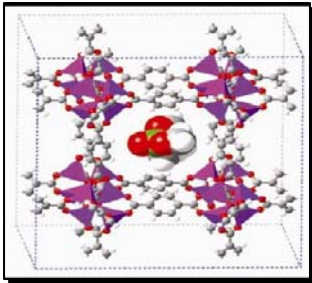
DF200



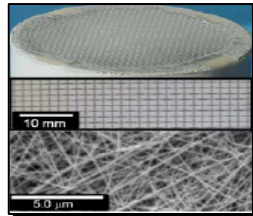
mVHP, Sensitive Equipment Decon



Tomorrow



Advanced Chemistries



Nano-Fibers



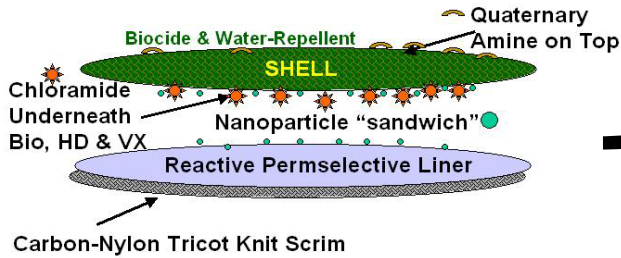
**Strippable Barriers
Self-Decontaminating Fabrics/Coatings**



Integrated into Platforms



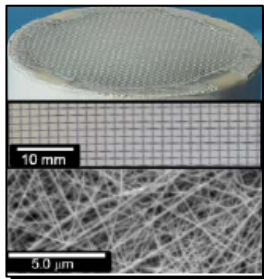
Individual CBRN Protection Vision



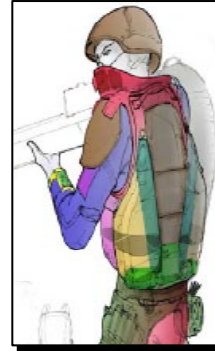
Integrated Fabrics



Human Performance



Air Purification



Clothing Design

Integrated Design

Lower Burden



Joint Chemical Ensemble



*Respirator Design
Modular Concepts*

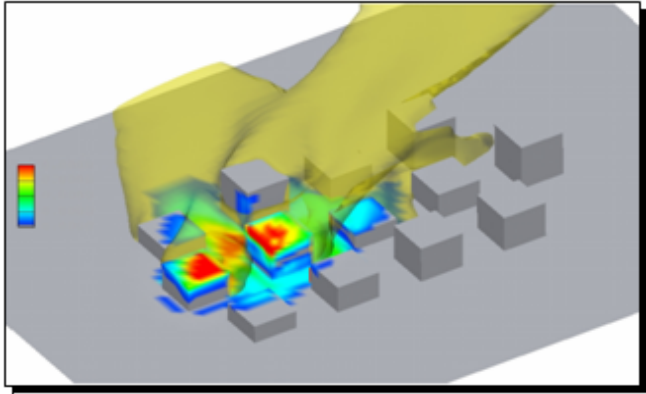
**Advanced
Threat**

Intelligent Materials



Joint CBRN Integrated Information System

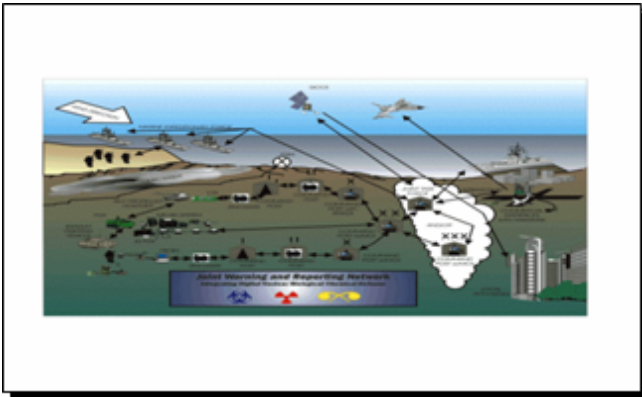
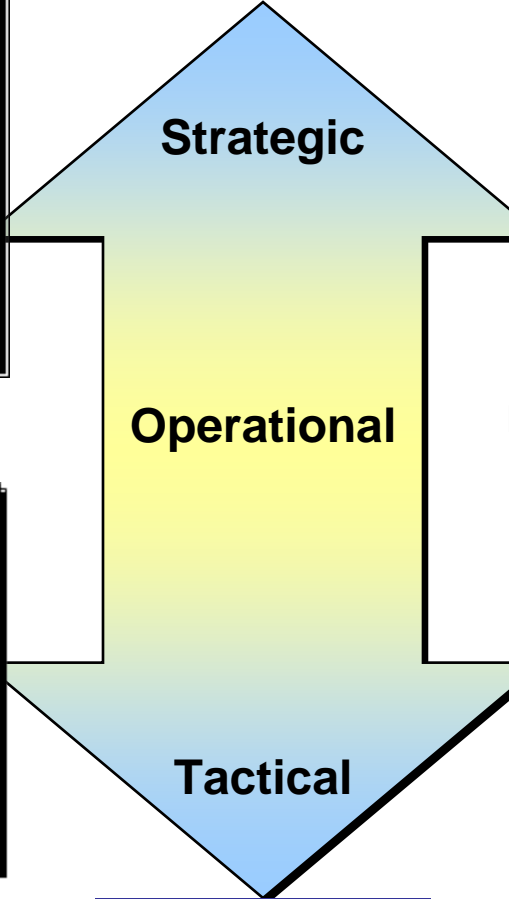
Awareness



Joint Effects Model (JEM)



Information Systems Interoperability



Joint Warning and Reporting Network (JWARN)



Joint Operational Effects Federation (JOEF)

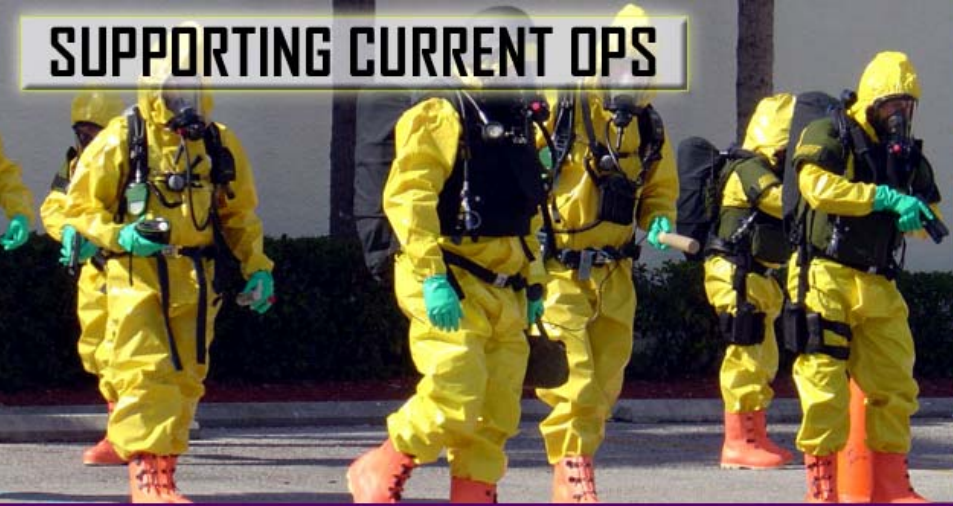
Sensors

CBRN Data Services on Service-Oriented Architecture



The Bottom Line – Return on Investment

SUPPORTING CURRENT OPS



IMPROVING FIELDDED SYSTEMS



DELIVERING WARFIGHTING CAPABILITY
(Best Technology - Right Place and Time)

BUILDING THE FUTURE



