



GUARDIAN

10 April 2006

Advanced Planning Briefing to Industry

COL CAMILLE NICHOLS
JPM GUARDIAN
Joint Program Executive Office
for Chemical and Biological Defense
camille.nichols@jpeocbd.osd.mil

MR. CHRIS RUSSELL
Joint Science and Technology Office/
Defense Threat Reduction Agency (DTRA)
christopher.russell@dtra.mil



Outline



- **Overview**
- **Challenges**
- **Acquisition Strategy/Funding/Schedule**
- **Upcoming Business Opportunities**
- **Contacts**

Overview

Joint Project Manager - Guardian “Vigilant Protection”

Vision – A Strengthened DoD Force Protection Posture

FORCE PROTECTION SYSTEMS

Provide Affordable, Modular, Scalable and Supportable Tactical Force Protection Capabilities to Forward Deployed Forces while Simultaneously Providing, State-of-the-art, Physical Security Equipment to Army Installations Worldwide



INSTALLATION PROTECTION PROGRAM

Assist DoD in Preparing for, Preventing, Responding to, and Recovering from CBRN Events by Providing Effective and Affordable Capabilities



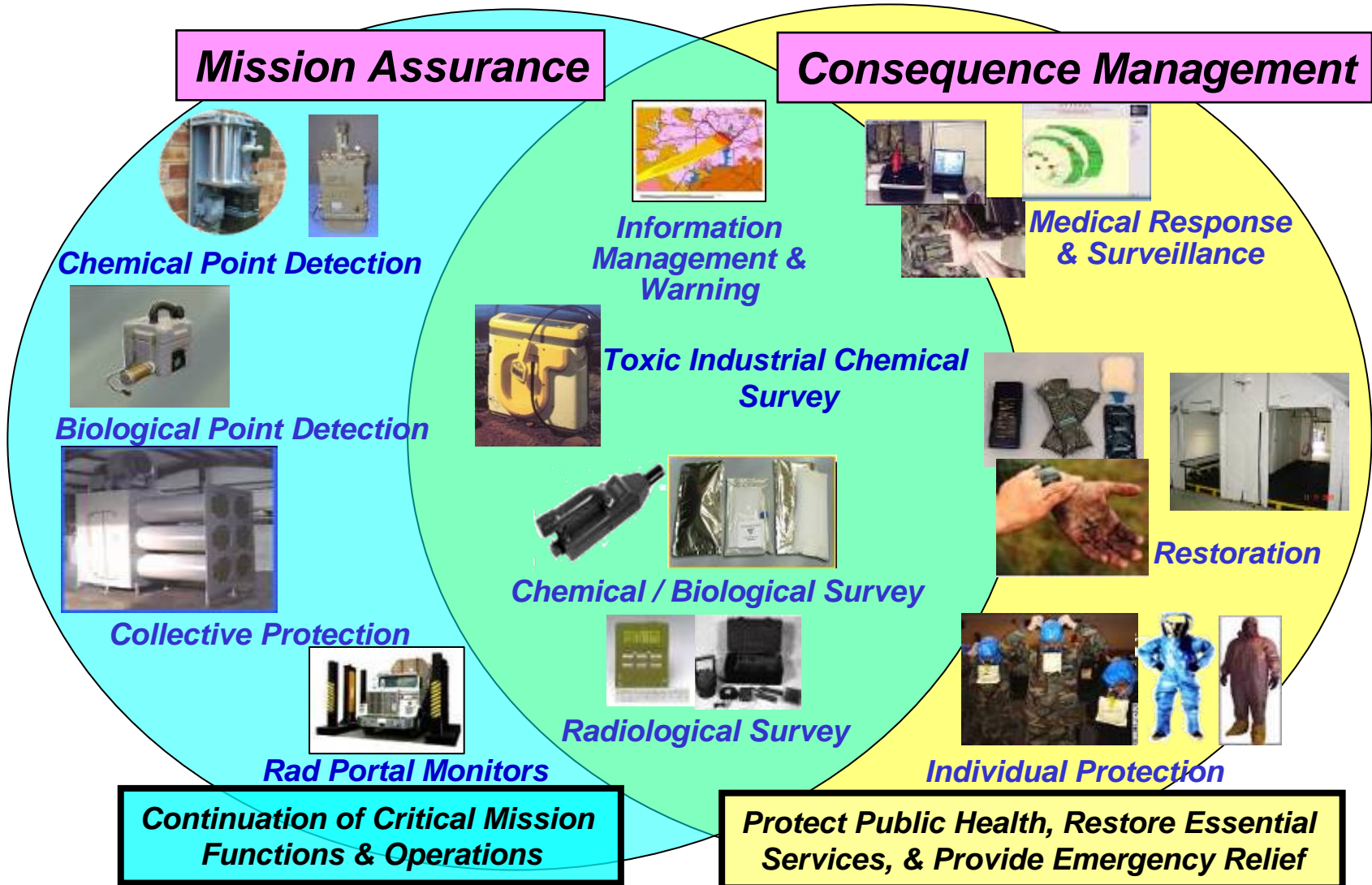
WEAPONS OF MASS DESTRUCTION

Provide the Highest Quality Materiel Solution to our Homeland Security Warfighters' Requirements by Applying Rapid Acquisition



Overview

IPP Family of Systems Capabilities



Overview

Strategic Environment

National Level

- Incident of National Significance
- Development of C2 Architecture
- Capability/Metric Framework

Department of Defense

- Roles and Responsibilities of NORTHCOM and STRATCOM
- Re-look of Civil Support Roles
- Quadrennial Defense Review (QDR)
- GWOT Costs

**Revise IPP
-\$535M**

Overview

IPP

IPP 7 BASES

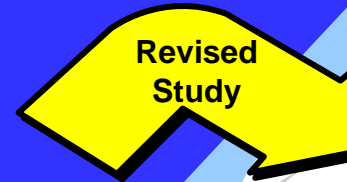
- CBR Detection
- Identification
- Warning
- Protection
- Decontamination
- Information Management
- Medical Protection
- Emergency 1st Responders



IPP LITE

93 BASES

- Emergency 1st Responders
- Warning/Notification System
- Incident Management System



Revised IPP

IPP CONUS IPP "Minus" Bases

WASHINGTON

Fort Lewis

- 8 Chem Detection
- 3 Bio Collection
- 0 Rad Portal Monitor

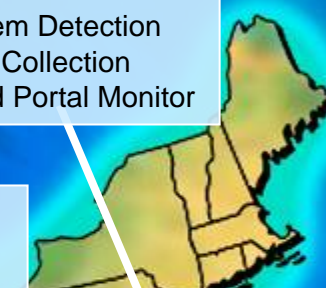


TACOMA/SEATTLE

MARYLAND

Andrews AFB

- 13 Chem Detection
- 4 Bio Collection
- 5 Rad Portal Monitor



VIRGINIA

Norfolk NS

- 0 Chem Detection
- 0 Bio Collection
- 3 Rad Portal Monitor



D.C.

NORFOLK

KENTUCKY

Fort Campbell

- 8 Chem Detection
- 4 Bio Collection
- 3 Rad Portal Monitor



NASHVILLE

WILMINGTON

CALIFORNIA

Camp Pendleton MCB

- 9 Chem Detection
- 4 Bio Collection
- 0 Rad Portal Monitor



SAN DIEGO

SHREVEPORT

MACON

LOUISIANA

Barksdale AFB

- 9 Chem Detection
- 3 Bio Collection
- 0 Rad Portal Monitor

GEORGIA

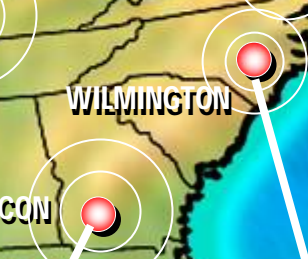
Robins AFB

- 8 Chem Detection
- 4 Bio Collection
- 0 Rad Portal Monitor

NORTH CAROLINA

Camp Lejeune MCB

- 16 Chem Detection
- 13 Bio Collection
- 6 Rad Portal Monitor



Overview

IPP "Lite"

- **Initiate an IPP "Lite" Capability Immediately to ~100 Sites on Current DepSecDef Approved List & Approved Urgent Requirements Capability Document**
- **Provides First Responder and Warning System Equipment**
 - **IPP First Responder Equipment is the Baseline**
 - **Capabilities Include Hand-held CML/TIC, Biological and Radiological Detection, Identification and Survey**
 - **Individual Protection**
 - **Personnel and Mass Casualty Decontamination**
 - **Upgrade Installation Warning Capability (Giant Voice)**
 - **CBRN Incident Management Tool**
 - **Training, CONOPS Updates and Exercises**
- **Provides 12 Months of Sustainment**



Overview

First Responder Capability

- Individual Protective Equipment
- Personnel Decontamination
- Bio Sampling
- Chemical Survey
- RAD Survey
- Medical Prophylaxis
- Reference Material



Bio Sampling Kit



Draeger Tubes



Decon Tent



ICAM



M256A1
Detector Kit



AN/UDR 14



AN/PDQ 1



AN/PDR 77



Protective Suit,
Boots and
Gloves with
SCBA

Overview

Mass Notification System

Exterior Notification System



Strobe

Speaker/
Siren

Building
Notification
System



Outdoor
Public
Address



PDA



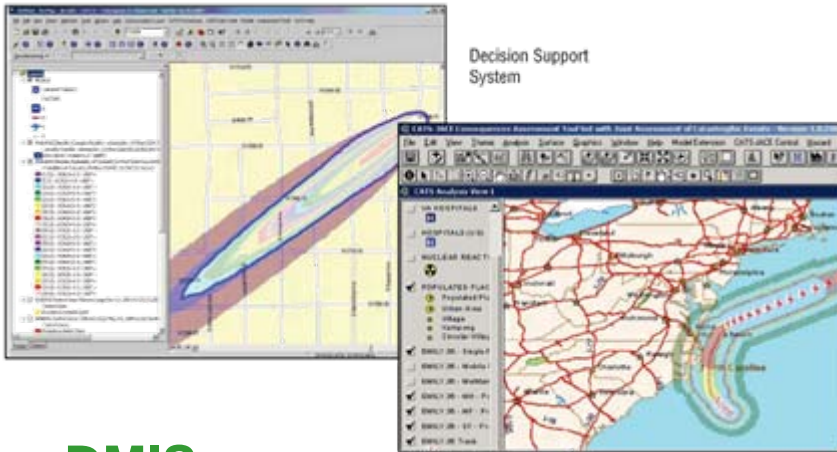
Phones

Telephone Alert System

Overview

Decision Support System/ Incident Management System

System Software



- **DMIS**
- **CoBRA 4.0**
- **ALOHA 5.3.1**
- **CAMEO 1.1.2**
- **MARPLOT 3.3.1**
- **HPAC**
- **CATS 6.0**



CoBRA Pen Tablet



ToughBook Rugged Laptop

Servers/ Workstations



Hardware



Technical Challenges



CBR Personal Protection Equipment:

- **New Materials for Lighter and more Flexible Suits and Ensembles with Equal or Better Protection and Shelf Life**
- **Enhanced Masks with Greater Protection and Longer Stay Times**
- **Protective Suits/ Ensembles with Greater Protection and Longer Stay Times**
- **Improved Internal Suit and/or Ensemble Environmental Control Without any Loss of Mobility**
- **Better Voice Communications Between Team Members and Local Command Personnel**

IPP 1st Responder – CSTs – USAR – Specialized Units



Technical Challenges



Physical Security:

- **Advanced UGV/Robotic Payloads – Smaller & Multi Threat**
- **Improved Non Intrusive Inspection Capabilities**
 - **High Yield Explosive Detection**
 - **Nuclear Materials**
 - **Contraband**
- **Next Generation Automated Access Control for Buildings/ Gates**
- **Intrusion Detection for Military/Government Installations**
- **Additional Capabilities to tag and Track high Value, Sensitive and Pilferable Assets**
- **Long Range Man-portable Video Detection/ Assessment System**

Force Protection Systems (FPS)



Technical Challenges



CBRN Detectors:

- Development of low cost, Reliable, Sustainable and Affordable RAD Portal and CBRN Standoff Detectors Operating 24/7
- More Effective and Versatile TIC Detection Capability
- Real Time BWA Identification Capability
- Portal Radiation Detectors with Increased Sourced Material Identification
- Better Hand Held Detectors
 - Integrated Communications/ Information Transfer Capability
 - Increased Programmability
 - Smaller and Lighter Packages
- Enhanced Sample Collection and Identification of Warfare Agents/ TICs

IPP 1st Responders – CSTs – USAR – Specialized Units



Technical Challenges

Command and Control:

- **Creation of Secure Wireless Communications Capability**
- **Advanced Modeling and Simulation Tools to Better Predict/ Characterize the CBRN Hazard/ Event**
 - **3-D Terrain Analysis**
 - **Building and Structure Modeling**
 - **Triangulate and Predict Contaminant Cloud Origination and Trajectory from Detecting Sensor**
 - **Integration of Disparate Sensor Networks**
- **Integrate 1st Responder Real Time Communications with C2 and DSS**
 - **Sample Identification**
 - **Hand Held Monitor Results**

IPP – FPS – CSTs – USAR – Specialized Units



Program Acquisition Strategy



Buying Concept

- “Off-The-Shelf”
 - Government/Commercial Shelf
 - Proven/Validated Technologies
- Buy best Available
- Rapid Insertion
- Modernize with Market Place

Investment Concept

- “Use Other People’s Money”
- Industry Pushing new Technologies
- Other Federal Agencies with huge Investment Portfolios
- Other JPMs with JSTO Pushing CBR Equipment Solutions
- DoD Security Arena Pushing Physical Security Equipment



Program Funding (\$K)

	FY06	FY07	FY08	FY09	FY10	FY11	Total
6.3	\$2,400	\$2,400	\$2,400				\$7,200
6.4/6.5	\$4,411	\$1,533					\$5944
Procurement	\$229, 966	\$134,565	\$134,849	\$133,569	\$108,434	\$108,299	\$849,682
Total	\$236,777	\$138498	\$137,249	\$133,569	\$108,434	\$108,299	\$862, 826



Program Schedule



	FY06	FY07	FY08	FY09	FY10	FY11
ICIDS	PRODUCTION					
ALS BLK 1	RDTE					
		PRODUCTION INC I				
PPE DEMO/ EVAL	RDTE					
IPP	IPP LITE FIELDING					
			REVISED IPP INSTALLATION FIELDING			

Force Protection Systems (FPS)

- **ICIDS: The ICIDS provides the means to detect and assess as necessary the unauthorized intrusion or attempted intrusions of protected areas.**
 - Draft RFP Reviewed by Industry March 2006
 - ICIDS IV Contract award November 2006
 - Incremental Upgrade
 - Approximately 50 Installations



WMD-CSS

- **Analytical Laboratory System Increment I: Major Component Upgrades to the chemical and Biological Detection and Identification Sensors**
 - Draft RFP Reviewed by Industry March 2006
 - Expected Award August 2006



WMD-CSS

- **Personal Protective Equipment Demonstration / Evaluation Program – Ensure Required Equipment Meets NIOSH/OSHA Standards**
- **Working with JSTO, NGB, USAR to Prioritize Evaluation Requirements, Processes, and Procedures**





Upcoming Business Opportunities



IPP

- **IPP Lite is the Continual Procurement of “Best of Breed”, CBR 1st Responder, Incident Management, and mass Notification Technologies**
 - **< 10% of Equipment Procured by Government**
 - **> 90% of Equipment Procured by SAIC on a Regular Basis**
- **Revised IPP Concept and Acquisition Strategy Expected 4th Qtr 06**



S&T Points of Contact



- **Mr. Chris Russell JSTO/ DTRA**
(703) 767-3391
christopher.russell@dtra.mil

- **Mr. Tony Sides , Deputy PM –IPP**
(703) 681-1811
anthony.sides@jpeocbd.osd.mil



Program Points of Contact



- **JPM-Guardian, COL Camille Nichols** (703) 681- 0612
camille.nichols@jpeocbd.osd.mil

- **PM FPS, LTC Brian Shoop** (703) 704-1042
brian-shoop@us.army.mil

- **PM WMD-CSS, LTC Jay Smith** (410) 436-8930
jay.smith8@us.army.mil

- **PM IPP**
CDR Joseph Lara (703) 681-8409
joseph.lara@jpeocbd.osd.mil
SAIC, Mr. Paul Grimes (443) 402-9204
paul.r.grimes@saic.com