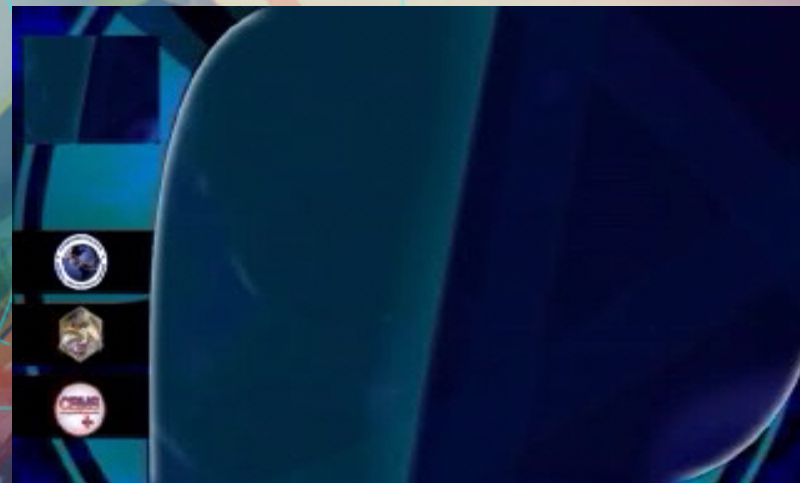


PEO-CBD



Transforming Chemical and Biological Defense Acquisition



World-Wide Chemical Conference
12 September 02
Fort Leonard-Wood, MO.

COL(P) Stephen V. Reeves
Program Executive Officer
Chem/Bio Defense
(703) 681-9600

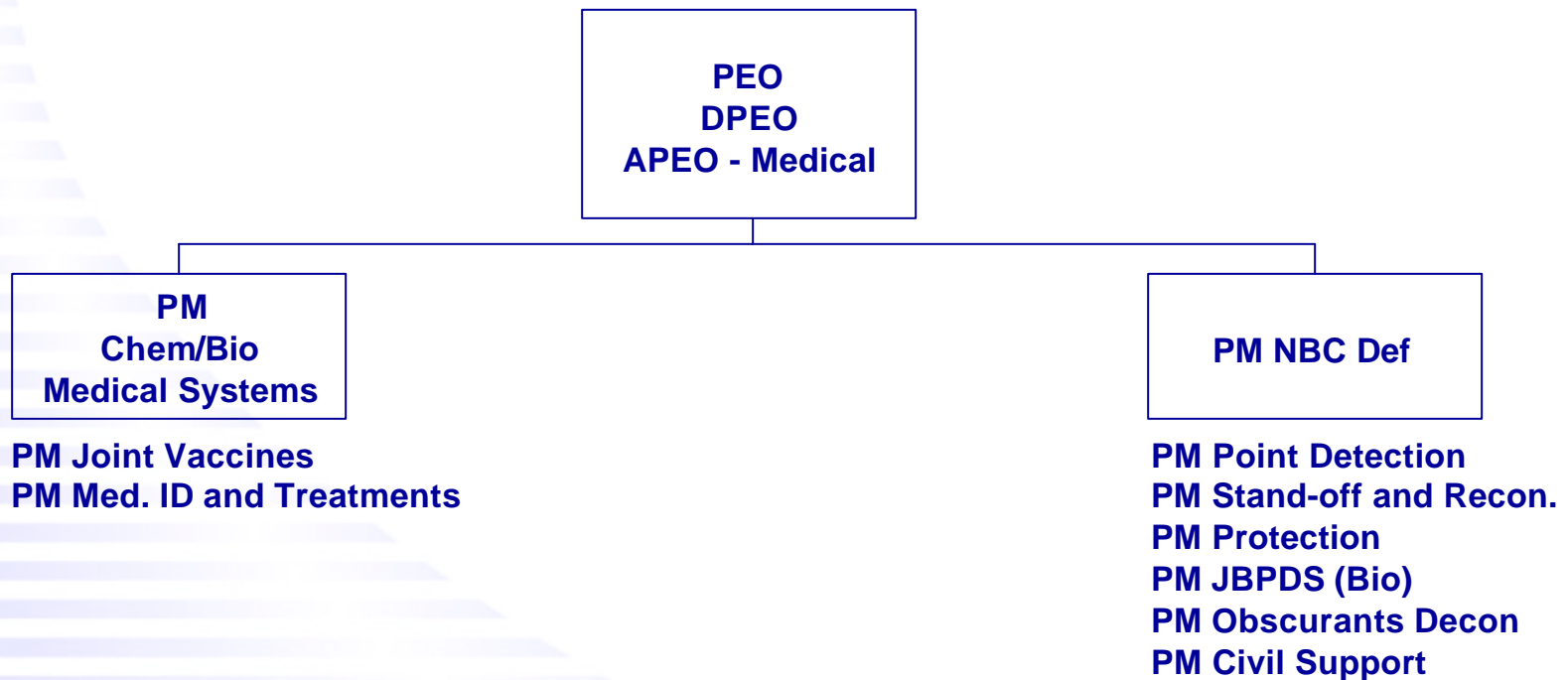
Stephen.Reeves@peocbd.army.mil

- **Setting the Conditions for Success**
 - Organizations
 - Processes
 - Capabilities
- **New**
 - Fieldings
 - Systems
 - Business Opportunities
 - Challenges

Setting Conditions For Success



- **Army Program Executive Office (PEO)**
 - Merged JPO Bio Defense and PM NBC Defense
 - New PM's For Medical Systems
 - New PM For Civil Support



Organization – Joint Program Executive Office (JPEO)

- **Merge Joint Services PM's Under One JPEO**
 - Unity of Effort and Unity of Command
 - Greater Integration – Less Deconfliction
 - Focus Service Cultures – Leverage Unique Capabilities
 - Joint Service Leadership
 - Commodity Based PM's

JPEO

- PM Contamination Avoidance
- PM Collective Protection
- PM Individual Protection
- PM Decontamination
- PM Chem/Bio Medical Systems
- PM Civil Support
- PM Modeling and Simulation

- **Issue: Bureaucracy Wants Processes Phased, Sequential, Linear, and Predictable**
- **Need: Processes that are Immediate, Simultaneous, Coherent and Adaptive**
- **Challenges:**
 - **Aligning Event Driven Process (Acquisition) with Calendar Driven Process (Budget)**
 - **Accepting Prudent Risks**
 - **Compressing Processes**

Process Solution: Integrated Digital Environment

“Mass Electrons – Not Forces”

- “Paperless” Acquisitions
- Collaborative Tools
- Common Relevant Operation Pictures
 - PEO
 - PM
 - CMLS
 - Joint Requirements Office
 - Contractors
 - Test Community
 - Logistics Community

The screenshot shows a web browser window with the following elements:

- Address Bar:** https://peocbd.rdsia.army.mil/level1
- Page Title:** PEO-CBD
- Search Bar:** Search PEO-CBD
- Navigation Menu:**
 - Acquisition Support**
 - Acquisition Links, Acquisition Program
 - Baselines (APB), CBD POBRS, Mission & Functions
 - Administrative Support**
 - Travel Itineraries, Travel Requests
 - Business Management**
 - Congressional Inquiries & Tasking, Contracting Information, Financial Regulations and Policy, Financial Working Group (FWG) and Financial Management Budget Control Board (FMB), Funding Execution Status, Life Cycle Cost Estimating, Planning Program & Budgeting System (PPBS), Reports, Resource Management, Space Management, Special Events
 - Human Resources**
 - Manpower, Training, Career Development
 - Information Technology**
 - IT Functions
 - Products**
 - Biological Detection Systems, Chemical Systems, Medical Systems
- Table:**

Type	Name	Functions	Size	Modified
	The Defense Acquisition Deskbook			2002/Aug/23 09:42

IDE Collaborative Information

- **Currently Capabilities:**
 1. **Share documents and information via the Internet**
 2. **Use Project spaces to collaborate on a project**
 3. **Use of Discussion Groups**
 4. **Use of News Channels to share information**
 5. **Task creation and assignment**
- **Future Capabilities:**
 1. **Real time web meetings**
 2. **Instant Messaging**
 3. **Whiteboard space**
 4. **Application sharing**
 5. **Access to personal and group calendars**

Process Solution: Collaborative Environment

Solution: Civil/ Military Integration

Time 0

30 Days

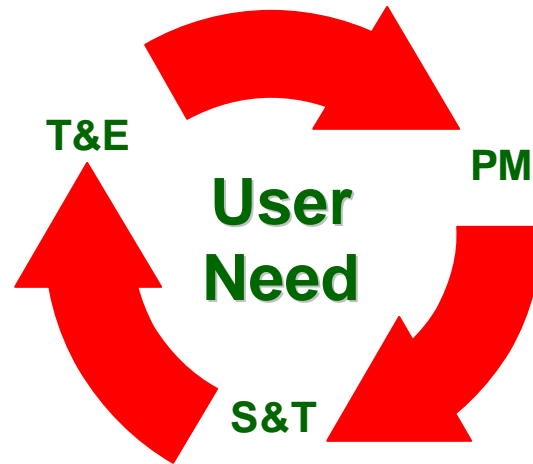
R&D System
Operational
Assessment
Results

Concept

Fabrication

Fielding

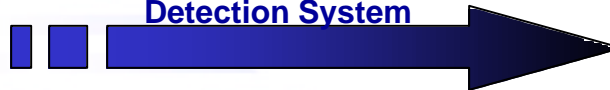
LRIP Production



Urban Version



Joint Biological Point
Detection System



Process Solution

- Prudent Risk
- Immediate, Adaptive RDA

Dry Filter Unit



Time 0

45 Days



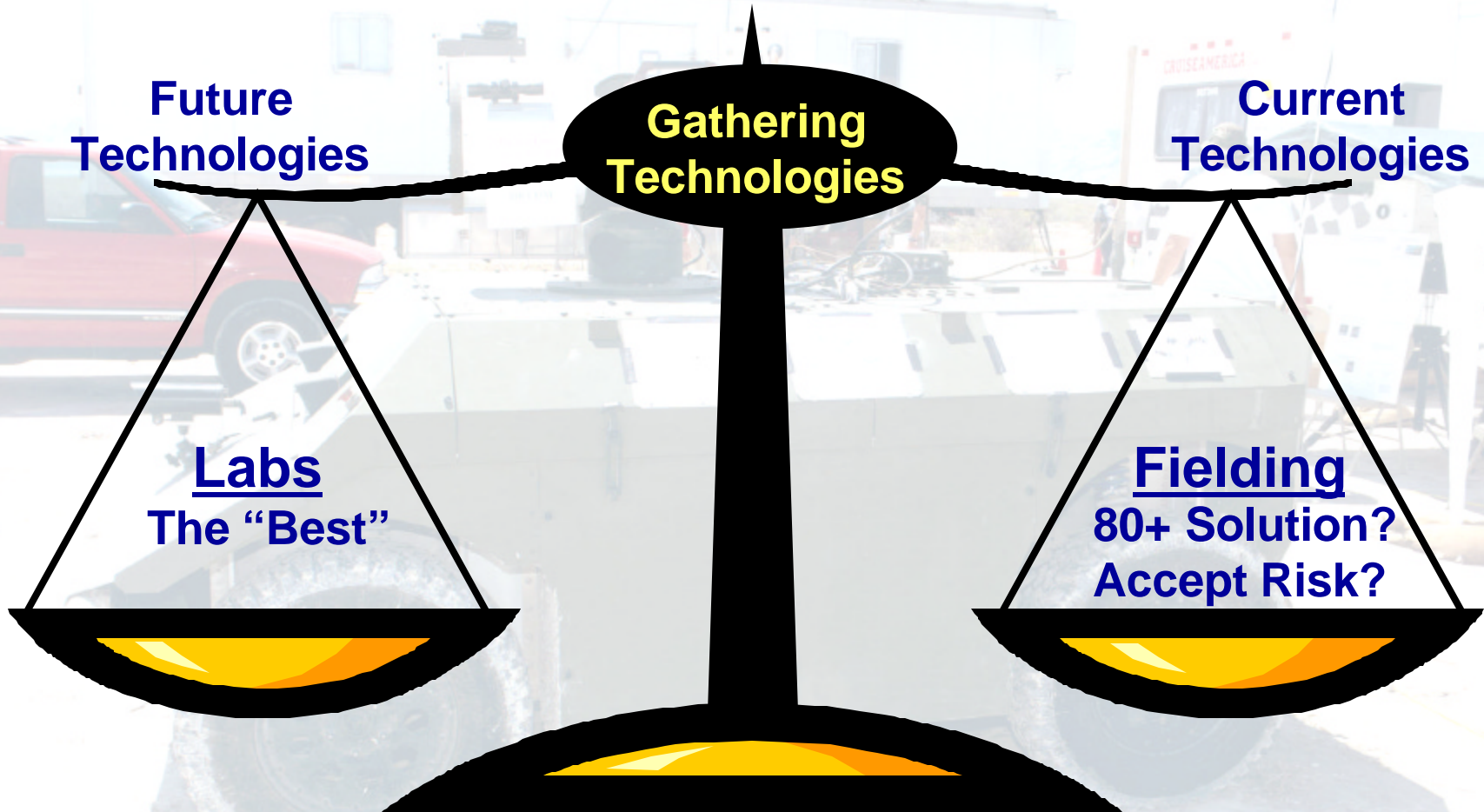
Urban Design



3-Filter HVAC Design

Capabilities: Technology Is A Solution... And A Problem

Issue: Provide Immediate, Relevant Capability



Leverage U.S. Asymmetric Technology Advantage

Capabilities: Is The Glass Half Full, Half Empty or Twice As Big As it Needs to Be?

Issue: Meeting the Immediate Need

Solution: Range of Technology Options

Low End



Hand-Held Assay (HHA)



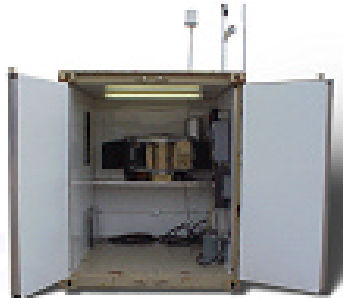
Dry Filter Unit (DFU)



Portable Biological Aerosol Sampler (PBAS)



Biological Integrated Detection System (BIDS/ BIDS P3I)



Joint Portal Shield



High End



Joint Biological Point Detection System (JBPD)

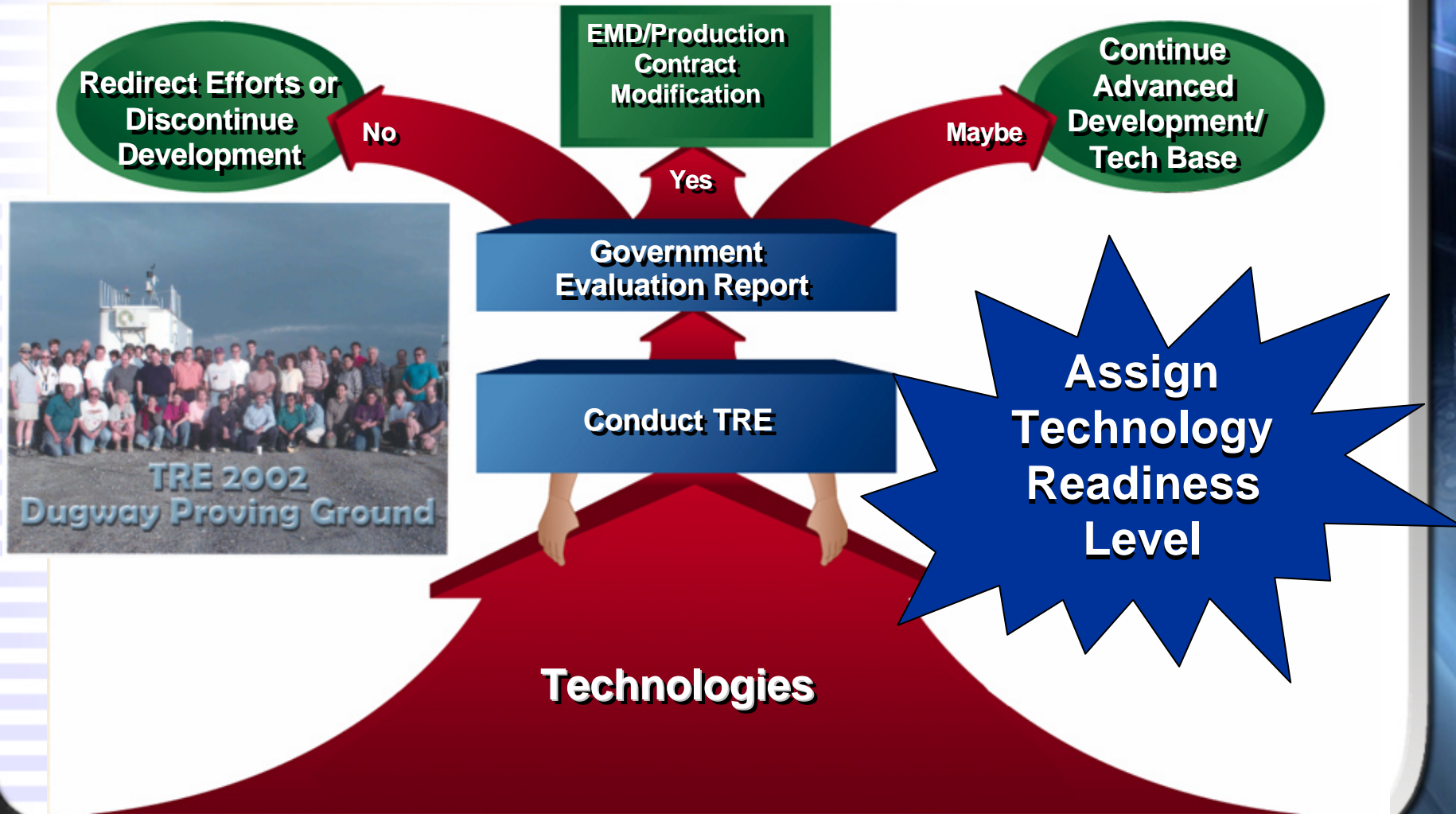
“The Future Ain’t What It Used To Be”

- Transformation – “A *Fundamental* Change in Nature, Function, Condition or Essential Characteristics...”
- “Capability – Based” Acquisition:
 - Distributed, Interoperable, Networked Systems – Not Self-contained Models
 - Horizontally Integrated Manned, Unmanned, Ground, Air and Space Systems
- Investment Strategy
 - S&T
 - Development/Procurement

All Technology Is Not Useful Technology

Issue: Selling "Anti-Gravity Boots"

Solution: Technology Readiness Evaluations



**Capabilities:
Do You Buy A Ticket To Ride
Or Do You Buy The Train?**

Multi Mission Sensor Program



- Use Existing Radar Systems
- Integrate Software Only
- Develop and Test Concept of Operations
- Proof of Principle Demonstration
Key West, Florida, April 02



Horizontal Technology Integration

New

- Fieldings

- Systems

- Business Opportunities

- Challenges

FY99-02 New Systems Fieldings 18 New Systems



M45 Aircrew Protective Mask



Fox Recon Vehicle



Light Vehicle Obscuration Smoke System



M58 'Wolf'



M56 'Coyote'



DOD Biological Sampling Kit



Anthrax Vaccine Immunization



Joint Portal Shield



M22 ACADA



JWARN Block I



Radiac Set - AN/PDR-77



Radiac Set - AN/VDR-2



Pocket Radiac - AN/UDR-13



Improved Chemical Agent Monitor

**OVER 200,000 NEW
PIECES OF EQUIPMENT**

Fielding-What's Coming Up

PM Medical Systems

System	Fielded in last 12 months/ where	FY03 Testing	FY03 Production Decision	Planned FY03 Fielding	Planned FY04 Fielding
ATNAA			1Qtr	YES	
SERPACWA		YES		YES	
JBAIDS		YES	YES		YES

ATNAA = Antidote Treatment, Nerve Agent, Autoinjector

SERPACWA = Skin Exposure Reduction Paste Against Chemical Warfare Agents

JBAIDS = Joint Biological Agent Identification Diagnostic System

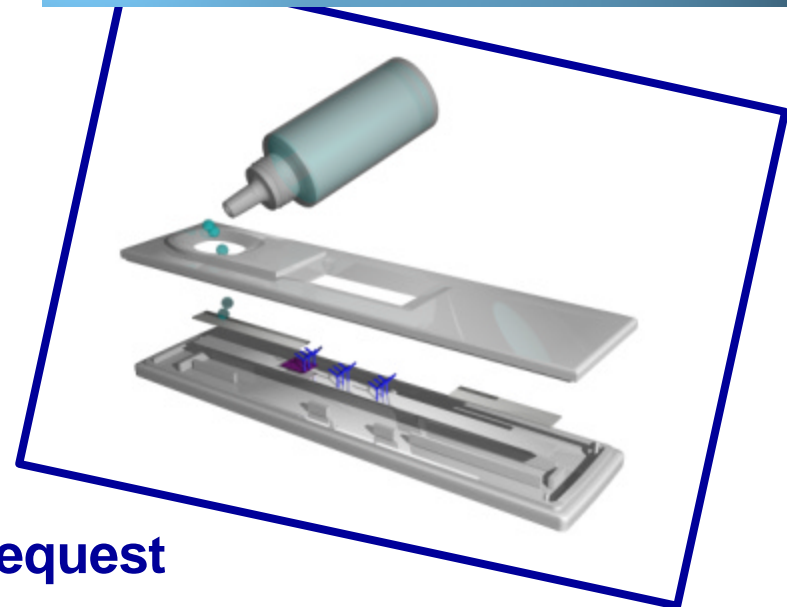
Fielding-What's Coming Up

PM NBC

FY03 Testing	FY03 Production Decision	Planned FY03 Fielding	Planned FY04 Fielding
ECTA – Prod Acceptance T&E – 4Q02-4Q03; LUT – 4Q03	ICAM – MWO – Title IX Funds	ACADA -Stryker III; ICAM –Various NGB sites	ACADA -Stryker IV
CBMS –Chemical Testing – 2Q02-3Q03, IAV PQT/LUT 3Q03-1Q04	CBMS - LRIP JSLNBCRS Units and IAV units Oct02		JSLNBCRS 1Q04 IAV 3Q04
Fox Trainer PQT 2Q03; NBCV– PQT 3Q03-1Q04		M93A1 -Kitzingen, and Ft Hood; Fox Trainer – Ft Polk	M93A1 - Ft Polk, and Richardson
JSLSCAD/MCAD – PQT 3Q02-1Q04; Shipboard OT 2Q03-3Q03; IOT&E 4Q03-1Q04			JSLSCAD
		SDS M100 – Hawaii, Korea, Alaska, FT Drum, and Hood	SDS M100 – Ft Stewart, Bragg, Riley and Germany
MMW – Chamber Tests – 1Q03; PQT/IOT&E 2Q03		M56 - Various ARNG and USAR units; LVOSS - Various ARNG and USAR units	M56 -Various ARNG and USAR units

DoD Bio Detection Kit (Hand - Held Assays)

- Available Through Supply System*
- Unit Price Is \$59.39 Per Kit
- Assigned National Stock Number:
Operational: 6665-01-494-8725
Training: 6665-01-497-7811
- Kit Contains:
 - 8 Agent HHA Panel
 - Sample Dilution Buffer
 - Surface Swabs
 - 10x10cm Instruction card that can be used to measure the sample area



* Training CD-Rom Available By Request

UpComing Business Opportunities

Bulk Antibody Production

RFP for Production, 1QFY03

Joint Biological Point Detection System (JBPDS)

**RFP for Block I - Production
1st/2QFY03 - 900 Systems**

Joint Biological Standoff Detection System (JBSDS)

RFP for Block I Test Article 1QFY03

PCR Reagent Manufacturing

RFP for Production 1QFY03

Joint Service Sensitive Equipment Decontamination

RFP for Block II- R&D- FY04

Unseen Unknown Uncertain

This is NOT Mission Impossible

Unexpected



Educating Your Leadership



New Missions



Terrorist Threats & Response



**System Capabilities
(and limitations)**

“What’s an Expert? A Guy From Out of Town,”- Mark Twain

Chem/Bio Warfare & Chem/Bio Terrorism ARE DIFFERENT

Chem/Bio Warfare

- Objectives: Incapacitate/
Degrade Military Forces
- Military Population
 - Healthy
 - Vaccinated
 - Trained
 - Detection Available
- Mobile Infrastructure
 - Prepared to Respond
- Clear Chain of Command

Chem/Bio Terrorism

- Objectives: Specialized
 - Mass Casualties/ Incapacitated
 - Crops
 - “Hit & Run” or “Making a Statement”
- Civilian Population
 - Unexpected
 - Unvaccinated/Unwarned
 - Varying Health/ Age
- Fixed Infrastructure
- Multiple Lines of Authority/
Responsibility

Drives Technology/ Equipment Selection

Chem/Bio Terrorism: What's The Plan?

Initial Detection H+ 15 minutes H+ 30 minutes H+ 1 hour ...

Local Authorities

Police Department

Fire Department

Hospitals

National Response

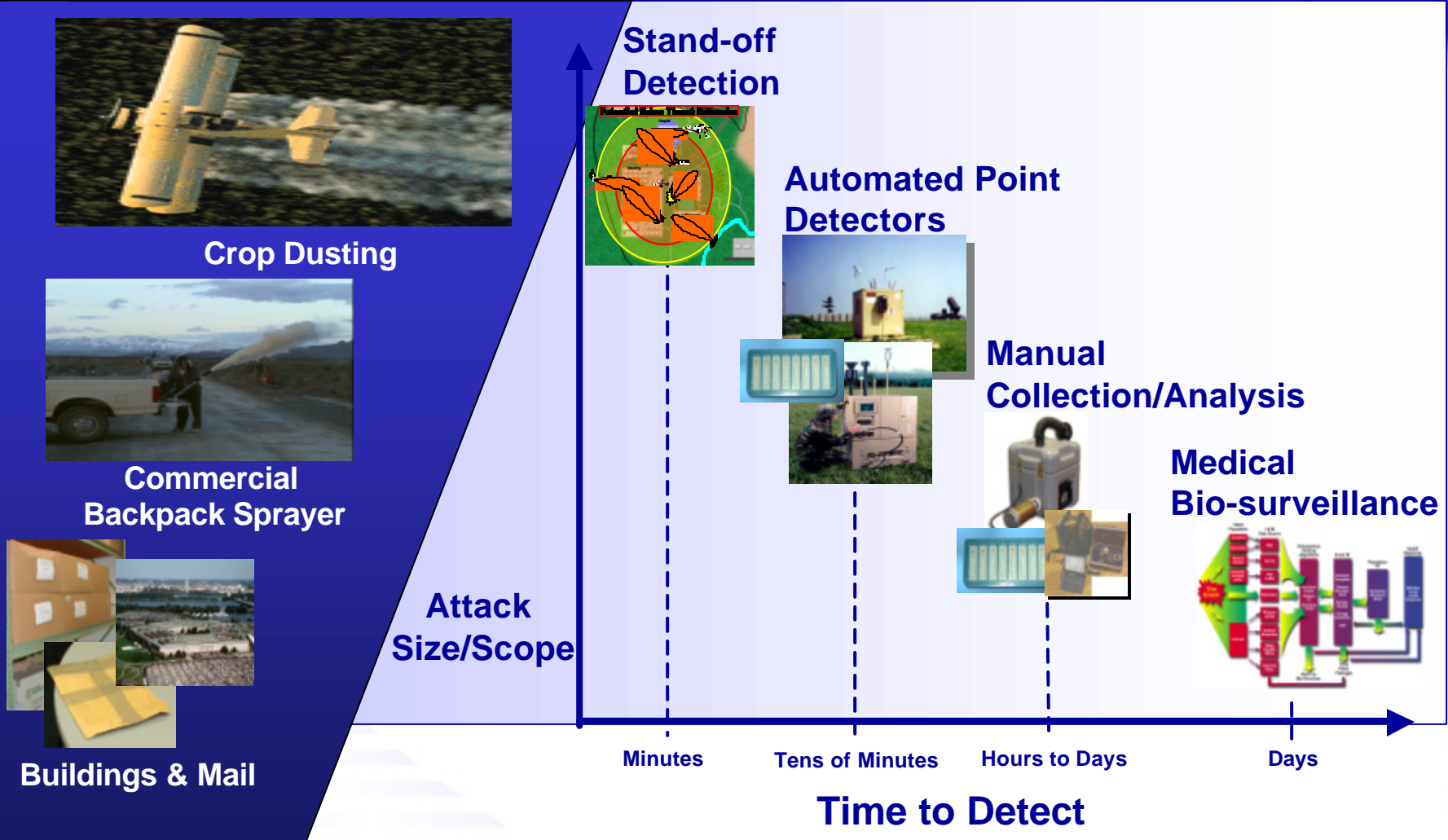
Public Affairs

↓
etc

- Who is in Charge? Where?
 - Who Synchronizes All Activities?
 - Are First Responders Trained?
 - Is Required Equipment On-Hand?
 - Is Required Medical Support Available?
-Etc....

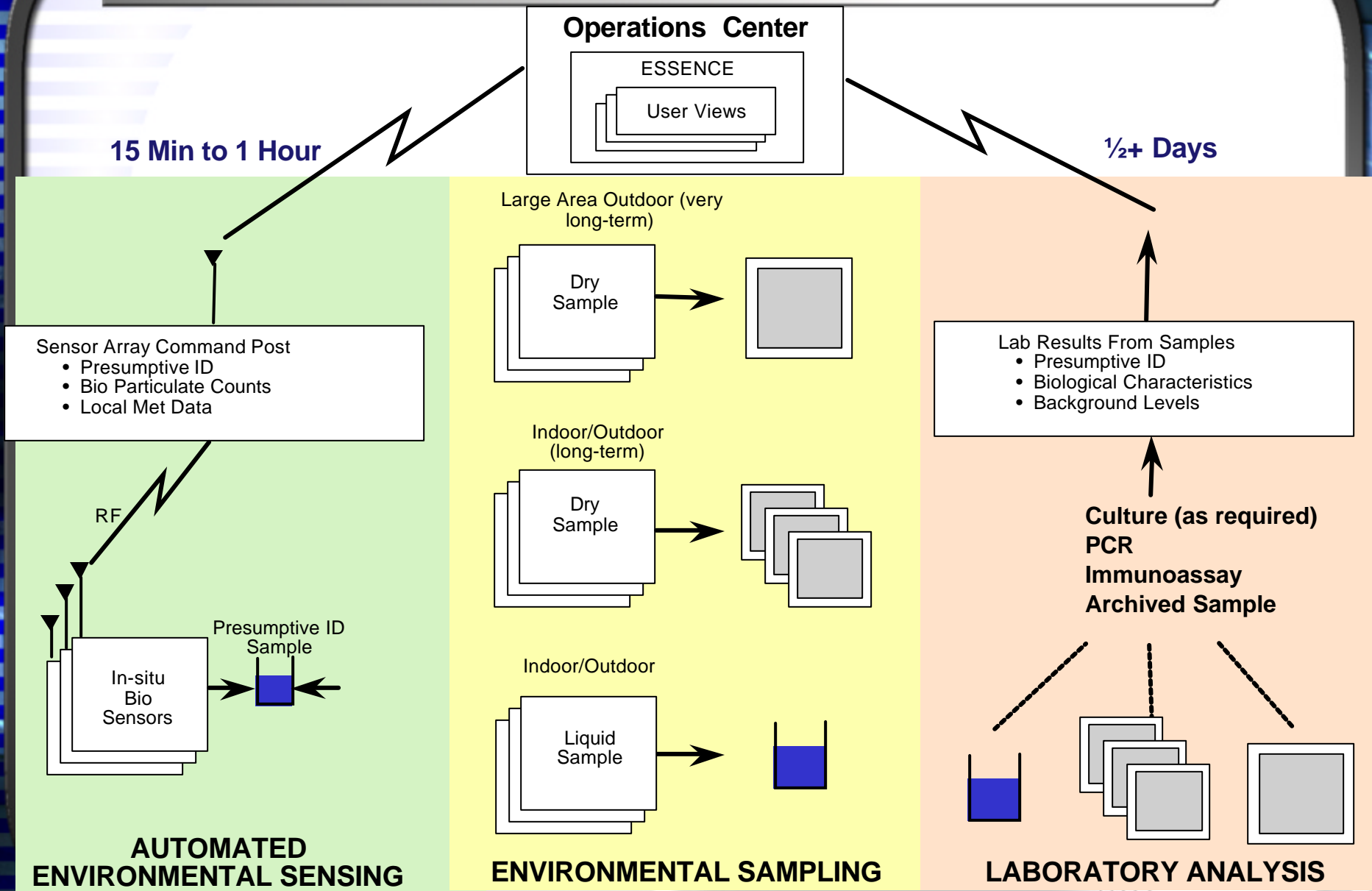
What Support Does The Military Provide?

Range of Bio-terrorist Threats: Detection Options Available



Effective Bio-detection Employs the Complete System of Systems to Counter the Entire Threat Spectrum

Integrating Health Surveillance and Sensors Approach



Our Future Challenges

- **Terrorism, By Definition, Seeks the Weak Spots**
 - Where, What to Defend?
 - Response Modes in a Democracy- Active/ Passive?
 - How Much Can We Afford?
- **Civil/ Military Integration**
 - National Standards Required
 - NIOSH/ EPA
 - Equipment Criteria, Decon, Protection Levels, etc
 - Where/ How Does Military Support?
 - Equipment
 - Testing
 - Technology
 - Training
 - Vaccines/ Drugs
- **Commercial Marketplace Now Incentivized for Chem/Bio Defense**
 - Leverage Current and Gathering Technologies
 - Re-look S&T Focus on Future Technologies

WE NEED YOUR INNOVATIVE IDEAS!



The BEST Technology and Equipment

At the RIGHT PLACE

At the RIGHT TIME

At the RIGHT COST

JPO-Bio Defense



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