Interagency Biological Restoration Demonstration (IBRD) Capstone Exhibition

Program History and Accomplishments
Outline

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- IBRD Overview
- Anthrax Scenario and Assumptions
- Response and Recovery Actions
- Program Participation
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- Key Results
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THE PROBLEM:

- A wide-area biological attack similar to National Planning Scenario #2 will significantly challenge the ability of a large urban area to maintain long-term viability
- There are a number of scientific, technical, operational and policy “gaps” that negatively impact the recovery process

CONTRIBUTIONS TO SOLUTION:

- Risk-Based processes for consequence management
- Community involvement in the recovery process
- Active DoD involvement during the response phrase to enable recovery
- Science and Technology capabilities that integrate with planning/guidance documents to increase efficiency of recovery operations
- Coordination across federal interagency, federal-to-regional, civilian-to-military, and public-to-private stakeholders

The Interagency Biological Restoration Demonstration (IBRD) Program is providing solutions for identified gaps
• **Goal:** Reduce the time and resources necessary to recover and restore wide urban areas, military installations, and critical infrastructure following a biological incident

• **Objectives:**
  - Understand the **social, economic, and operational interdependencies**, past and present, that impact recovery and restoration actions
  - Establish long term **formal coordination between DoD and DHS** and how this level of coordination can be optimized for stakeholder’s use at the state, regional, and local levels
  - Develop strategic **restoration plans for DoD & DHS** that can be utilized in other parts of the nation
  - Identify & demonstrate **technologies** that support recovery and restoration operations
  - **Exercise** restoration activities & available technology solutions using national planning scenarios

**DoD & DHS co-sponsored program**
Response and Recovery Actions

As defined by the Office of Science and Technology Policy (OSTP)

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<thead>
<tr>
<th>Notification</th>
<th>First Response</th>
<th>Remediation/Cleanup</th>
<th>Restoration (Recovery)</th>
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<tbody>
<tr>
<td>Receive information on biological incident</td>
<td>Initial threat assessment</td>
<td>Characterization of biological agent</td>
<td>Decontamination strategy</td>
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<td>Identification of suspect release sites</td>
<td>HAZMAT and emergency actions</td>
<td>Characterization of affected site</td>
<td>Remediation Action Plan</td>
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<td>Notification of appropriate agencies</td>
<td>Forensic investigation</td>
<td>Site containment</td>
<td>Worker health and safety</td>
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<td>Public health actions</td>
<td>Continue risk communication</td>
<td>Site preparation</td>
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<td>Screening sampling</td>
<td>Characterization environmental sampling and analysis</td>
<td>Source reduction</td>
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<td>Determination of agent type, concentration, and viability</td>
<td>Initial risk assessment</td>
<td>Waste disposal</td>
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<td>Risk communication</td>
<td>Clearance goals</td>
<td>Decontamination of sites or items</td>
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<td>Decontamination verification</td>
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**IBRD Scope**

**RESPONSE AND RECOVERY ACTIVITIES**

**(CRISIS MANAGEMENT)**

**(CONSEQUENCE MANAGEMENT)**

- Renovation
- Reoccupation decision
- Long-term environmental and public health monitoring
National Planning Scenario #2 tailored for Pacific Northwest region:

- **Covert Anthrax aerosol attacks by an organized worldwide terrorist group.** Tens of thousands of people exposed and thousands of deaths.

- **President & WA Governor declared state of emergency;** significant federal support is on scene

- **Significant contamination in affected areas, including critical infrastructure, commercial, military & private property.**
  - Approx. contamination = 2 areas of 10 sq. miles each
  - 500 buildings contaminated
  - Ports affected (Seattle, Tacoma)
  - Local government operations relocated
  - Basic services affected
  - Local businesses affected
  - Local military installations affected (Joint Base Lewis-McChord)
Program Participation

- **Federal Interagency Team**
  - DoD (DTRA/JSTO)
  - DHS (S&T)
  - EPA (OEM)
  - HHS (ASPR)

- **Regional Participation**
  - Federal Regional: DHS, EPA, HHS, FEMA
  - Military Installations: Joint Base Lewis-McChord, Madigan Army Medical Center
  - State of WA: OEM, Public Health, State-wide regulatory agencies
  - Seattle Urban Area Security Initiative (UASI)
  - Private Sector

- **Interagency Working Group participation**
  - DoD: JPEO-CBD, JSTO, NORTHCOM, US Army, USAF, NGB, WA WMD CST, USACE
  - DHS: S&T, OHA, FEMA, USCG
  - EPA (OEM, NHSRC, OPP), HHS (ASPR, CDC, NIOSH), FBI, DOT, DNI, DOC, WA State (PH and EM)
Program Timeline

IBRD Kick-off

- Interviews / Data Collection

Technology & Guidance Working Groups / Workshops / Meetings / Exercises / Demonstrations

Systems Analysis Report (Program Baseline)

Draft Interim CM Guidance

Final Interim CM Guidance

Draft SUA CM Guidance

Interim CM Guidance TTX

SUA TTX

S&T Demos

Final SUA CM Guidance

National CM Template

Final Report

Olympics (No Large Regional Events)

Sponsor Outbrief

Marshall Center COI Event

Capstone Event

CIV/MIL Workshops

Community Resilience Workshops

Media Workshop

Federal Response Workshop

Regional CIV/MIL Workshop

Guidance/Plan Development Workshops

S&T Demos

Interim CM Guidance TTX

SUA TTX

CM Guidance Transition

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2007 2008 2009 2010 2011

CALENDAR YEAR
Key Results

• **Baseline Systems Analysis**
  • Current national capabilities and methods for recovery utilized in 2001 set initial timeline for wide-area restoration at >10 years

• **Community Resilience**
  • Standard property leases allow for tenants to walk away after 6 months of unavailable access (game-changers needed)

• **Planning and Guidance**
  • Remediation activities need to be flexible to allow for multiple approaches (including community self-decon)
  • Risk-based approaches for characterization, decontamination, and clearance required to compress timeline

• **Science and Technology**
  • IBRD is providing solutions expected to significantly reduce timeline for recovery from a wide-area biological attack
  • Efforts include CIV/MIL compatible information management toolsets, wide-area decon solutions and application devices, sampling efficiency improvements, and detection technologies
Next Steps

- Conduct follow-on in second urban area (DHS-led, FY11)
  - Broader CBR Focus
  - DHS working to determine location
  - DoD will maintain supporting role

- Biological Operation Test and Evaluation (BOTE) – DHS/EPA Co-Sponsored (FY11)
  - Focus on individual building clearance
  - CDC, DoD, FBI involvement

- Conduct follow-on in US European Command (EUCOM) area of responsibility (DoD-led, FY12)
  - Transatlantic Collaborative Biological Resiliency Demonstration (TaCBRD) program
  - EUCOM will provide operational oversight
  - Conducted in collaboration with DoS and DHS (interagency focus)
Summary

- IBRD Program is providing stakeholder capability
  - Interagency stakeholder interests are being addressed; Official Requirements bodies have endorsed and are actively engaged; State and Local Government, EPA, HHS, JPEO-CBD are capability transition partners

- Interagency Alignment is a key focus point for program activities
  - Program partnership between DoD, DHS, EPA and HHS
  - Collaboration with stakeholders at Federal, Regional, and Local levels

- DHS is planning a follow-on phase of IBRD in second UASI region to begin in FY11
  - Broader CBR Focus
  - DHS is currently in selecting/vetting process for target region
  - DoD will continue to support in this follow-on phase

- DoD is initiating the follow-on TaCBRD program to begin in FY12
  - Collaboration with DoS and DHS
  - EUCOM to provide operational management for their area of responsibility
  - Focus includes interagency coordination and DoD/host nation engagement
Points of Contact

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