



UNCLASSIFIED

Major Defense Acquisition Program (MDAP) Trail Boss

Joint Program Executive Office for Chemical and Biological Defense

Advanced Planning Brief to Industry

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Survivability Trail Boss
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Outline



- **Program Overviews**
- **Warfighter Needs**
- **Trail Boss Technical Challenges**
- **Trail Boss Acquisition Strategy**
- **Trail Boss Partnering Opportunities**
- **Schedule**
- **Points of Contact**



Overseas Contingency Operations And Homeland Defense



**Integrate CBR Capability on Warfighter Platforms for
Inherent Protection and Survivability per DoDI 3150.09**



MDAP Trail Boss Overview



- **Objective: Support Platform Programs with the Selection and Integration of Materiel to Provide the Warfighter with Chemical, Biological and Radiological (CBR) Components to Platform Survivability and Defense Capabilities in Support of Military Missions, Operations, and Homeland Defense as a Seamless, Integrated Sub-system to Aircraft, Fixed Site, Ground Mobile, Shipboard, and Transportable Platforms.**



Warfighter Needs



- **Integrated CBR, Including Toxic Industrial Chemical, Capabilities**
- **Information on the Effects of Chemical Agents, Toxins and TICs and Decontaminants on New Materials**
- **Minimal Operational and Logistics Impacts of Operating in CBR mode**
- **Ability to Operate in all CBR and Toxic Industrial Chemical Threat**

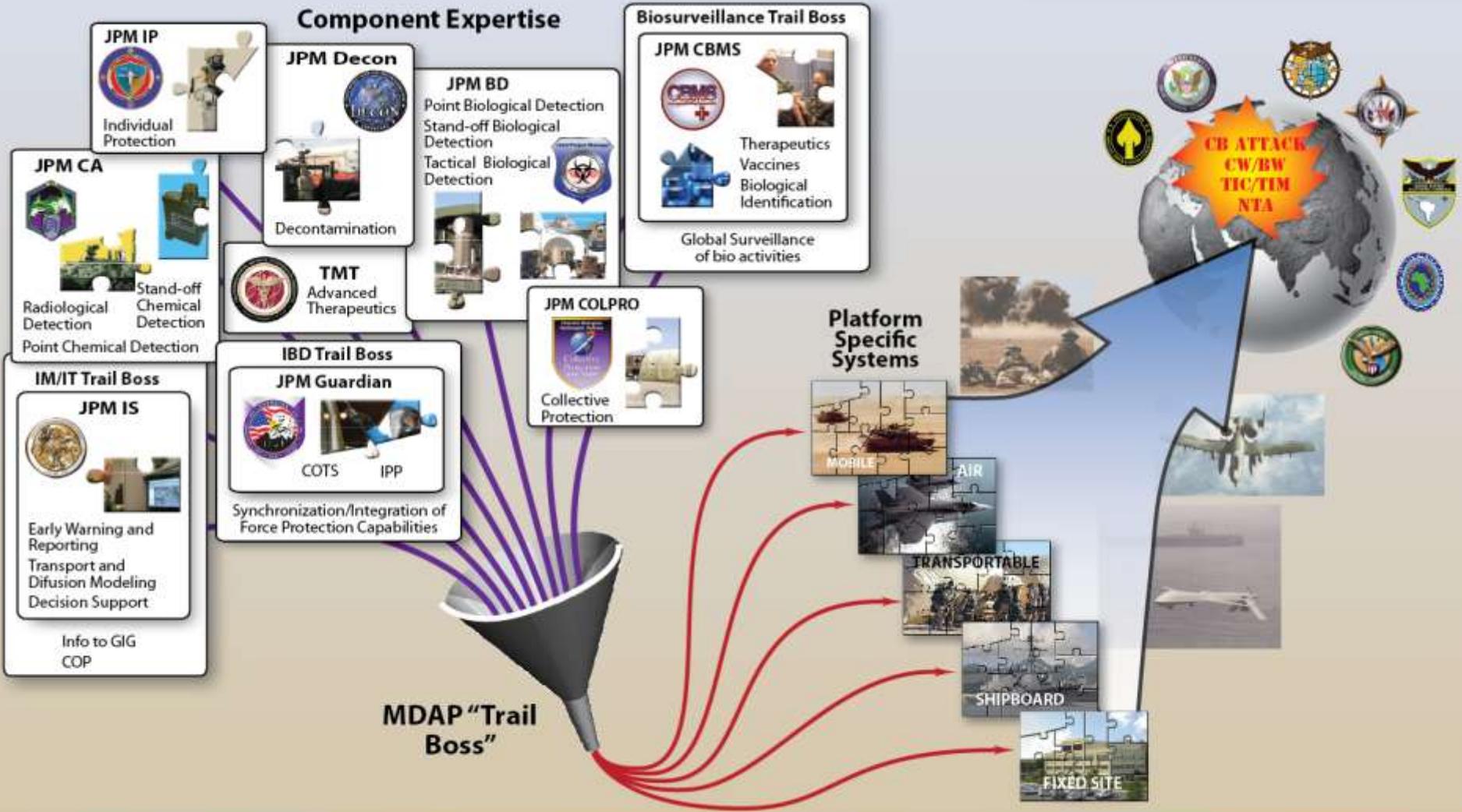


Trail Boss Technical Challenges



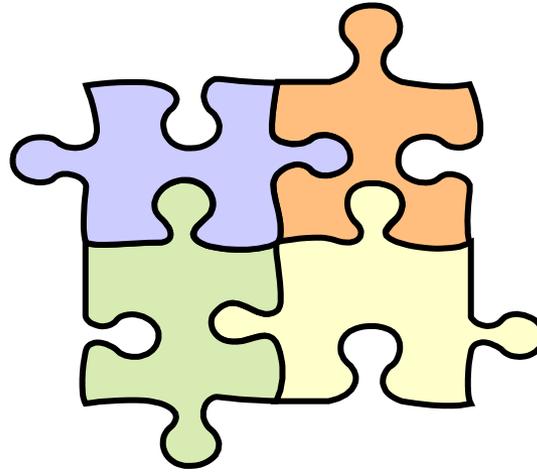
- **Seamless Integration with Platforms**
 - Operate in Environment Extremes (Aircraft, Marine, Desert, etc)
 - Minimizing Size, Weight, and Power
 - Maximizing Reliability, Availability and Maintainability
- **Defense Against Full Spectrum of Threat Materials**
- **Limited Data in the Material Effects Database**
- **Reduce Logistics Burden/impact to the Mission and the Operator**
 - Supportability in the Field/forward Operating Locations
 - Minimize Operator /Maintainer Workload
- **Establishing Appropriate System Level Testing**

CBR MDAP Survivability



Maximize DoD Return on Investment by Leveraging CBDP Expertise to Achieve Inherent CBR Survivability

Joint Strike Fighter



Joint Strike Fighter CB Capability Set



Decontamination Shelter System



Aircrew Mask



Trail Boss Acquisition Strategy



- **Partner with Government and Other Industry Activities to Support Customers Outside the Chemical Biological Defense Program in Meeting their CBR Survivability and Defense Requirements**
 - **Non-CBD Programs (e.g., Major Defense Acquisition Programs)**
 - **MILCON Projects**
 - **Facility Modernization Projects**
 - **DoD Agencies**
 - **Other Federal Agencies**
 - **Local Government Agencies in Support of Homeland Defense Mission**



Program Partner Opportunities



- **Fixed**
 - Major Commands and Agencies
- **Ground Mobile**
 - M2/M3 Bradley Fighting Vehicles
 - Ground Combat Vehicle (GCV)
 - Joint Light Tactical Vehicle (JLTV)
 - Multifunction Utility Logistics and Equipment - Armed Reconnaissance Vehicle Light (MULE-ARV-L)
 - Small Unmanned Ground Vehicle (SUGV)
- **Shipboard**
 - DDG-51 Flight III
 - US Coast Guard (USCG) Offshore Patrol Cutter (OPC)



Program Partner Opportunities, *cont.*



- **Transportable Platform**
 - **Joint Strike Fighter Decontamination Shelter System**
 - **Army Base Camps**
 - **Air Force Space Command**
- **Aircraft**
 - **Joint Strike Fighter CB Survivability Capability Set**
 - **Apache Block III**
 - **RQ-7C Unmanned Aerial Vehicle**
 - **KC-X Tanker Modernization Program/KC -10 Extender**



Program Schedule, Examples



2010	2011	2012	2013	2014	2015
SUGV/MULE-ARV-L					
	Ground Combat Vehicle				
		Bradley			
	Joint Light Tactical Vehicle				
Fixed Site Installations					
		DDG-51 Flight III			
	USCG Offshore Patrol Cutter				
				JSF Decon Shelter	
			Army Base Camps		
			AF Space Command		
	Apache Block III				
Joint Strike Fighter					



MDAP Trail Boss Points of Contact



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