

# JPEO-CBD Major Defense Acquisition Program CBRN Integration

# Joint Chemical, Biological, Decontamination & Protection Conference & Exhibition

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# Purpose of Briefing Future Systems Team Vision

# **Purpose**

Inform Community of JPEO CBD efforts Integrating CBRN Capabilities into MDAPs

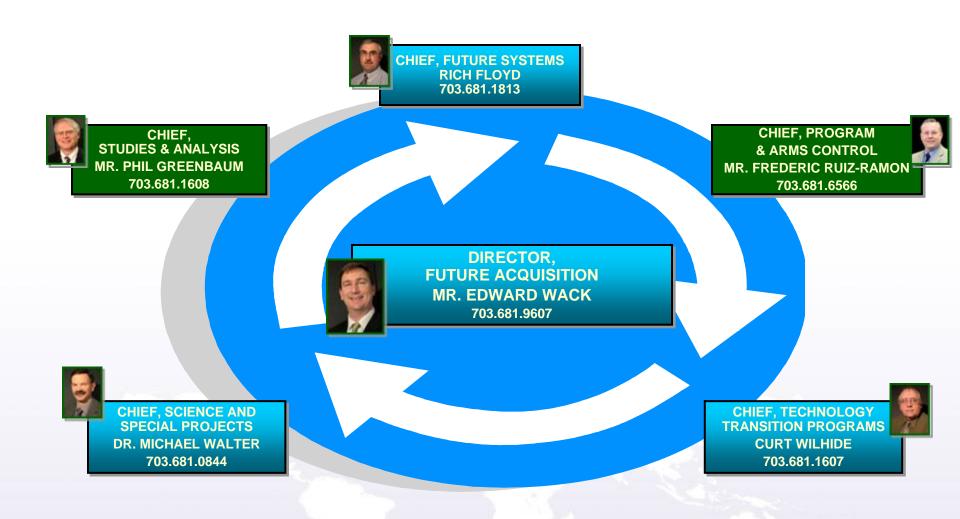
C&C

#### **Vision**

Develop, demonstrate and provide a SoS solution integrated into MDAP schedules and architectures providing capabilities to accomplish missions unencumbered by CBRN hazards



# **Future Acquisitions Directorate**





# **Future Systems Team Responsibilities**

- Interface with MDAP PM
- Conduct Systems Engineering analysis
- Determine component specifications
- Map specifications to program or system designs
- Facilitate T&E and Life Cycle Management strategies



**Future Systems Chemical/** 

**Biological Defense MDAP Program Support** 









Working w/
17 MDAPS to
Date

CBRN—REQUIREMENTS

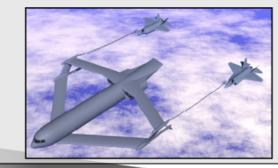
CBR Detection
Battle Management
Integrated Early Warning
Collective Protection

Decontamination Individual Protection

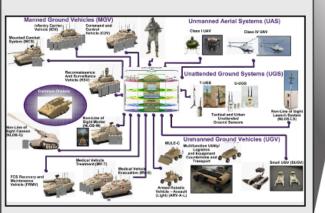
#### **Expeditionary Fighting Vehicle**



KC-X



#### **FUTURE COMBAT SYSTEMS**



OTHERS...

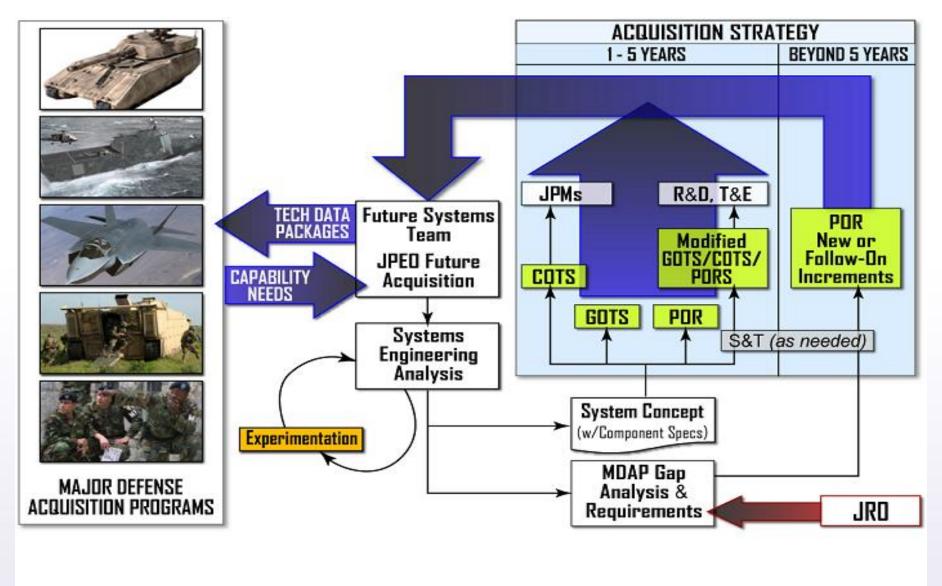
JMAC, JLTV, MRAP...

#### **Joint Strike Fighter**





# **Delivering A Capability**





# **Recent Activity**

- Threat and requirements analysis
- Top-level architecture and system engineering
- Requirements gap analysis leading to Tiger Teams
- CBRN CONOPs supporting MDAP CONOPs and O&O
- Component specifications
- Initiated component acquisition strategies with JPMs
- Drafted Common CBRN Sensor Interface (CCSI) document

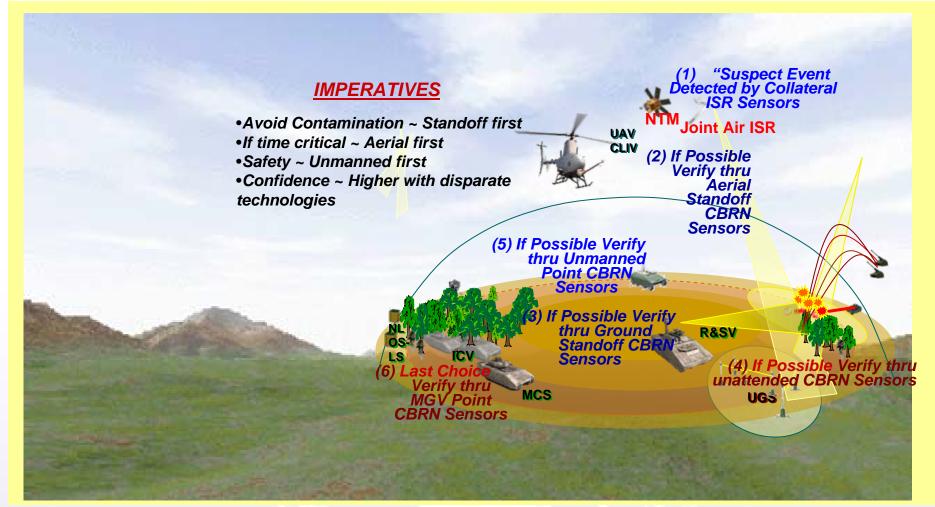


#### **Common CBRN Sensor Interface**





#### **CBRN CONOPS**

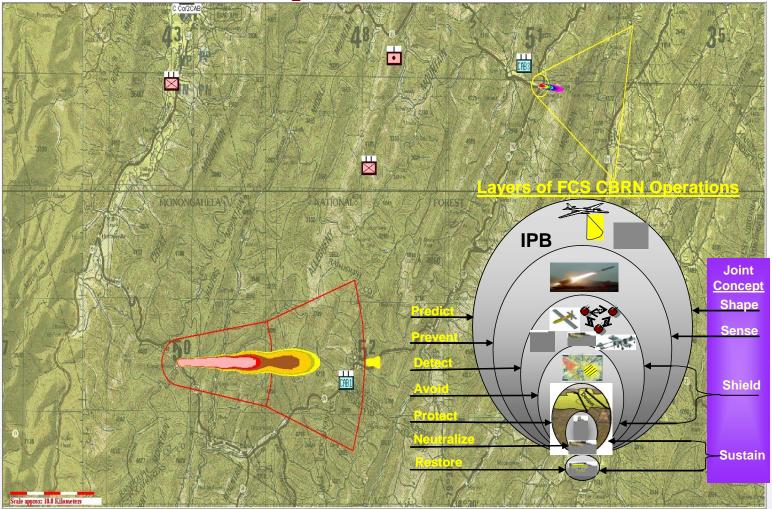


Identified disconnects between CBRN & CONOPs



#### **CBRN Table Top Exercise**

**Vignette-Based Exercise** 



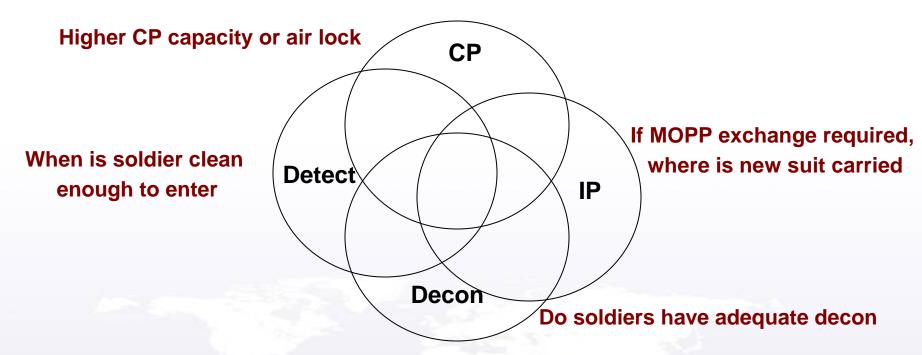
#### Identified disconnects between CONOPs and Capabilities



# **Example to Consider**

#### FCS ORD and CONOPs: <u>ingress and egress from Manned</u> Ground Vehicles

Identified as a requirement against Collective Protection



Most can be addressed, all need to be considered, all have size, weight or power implications

Are there novel ways to satisfy the requirement



### **Efforts and Players**

CCSI JPM IS, JPM BD, JPM CA Cradle JPM IS, JPM BD, JPM CA **Filtration** JPM CP, JPM IP **Decision Support Aids JSTO, JPM IS Data Fusion JSTO, JPM IS Collateral Sensing JSTO Modular Sensing** JSTO, JPM BD, JPM CA **Reactive Coatings** ARL, S&T, JPM Decon

**JPMs Execute Component Acquisition** 



#### **Future Activities**

- Continue Programmatic support
  - MDAP program events (design reviews, milestones, BOD)
  - Deliveries to support integration
- Realize future CBRN systems concepts and architectures through MDAPs
  - Early involvement in MDAPs to shape CBRN solutions
  - Integrate CBRN systems into platforms
  - Cross-program, cross-platform capabilities development
- Work to align and synchronize JSTO S&T, Capabilities Documents and Programs of Record to address MDAP capabilities requirements as well as traditional user

Consider MDAP requirements in Future Programs of Record Capabilities Requirements Documents