





UNCOMPROMISING INTEGRITY
RESPECT FOR ALL
COMMITTED TO EXCELLENCE
ALWAYS READY



PROGRAMS EXECUTED ON BEHALF OF THE CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM

WHO WE ARE AND WHAT WE DO











JPEO-CBRND ORGANIZATION LEADERSHIP







Mr. Darryl Colvin Executive Assistant Ms. Quneitra "Q" Quintero



Executive Officer MAJ Eric Hearn



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Joint Project Leads (JPL)



JPL CBRND Enabling Biotechnologies Mr. Bruce Goodwin

Executive Assistant Ms. Shelley Hilgenberg



JPL CBRN Integration Mr. Paul Gietka Executive Assistant TO BE ANNOUNCED

Joint Project Managers (JPM)



JPM CBRN Protection Ms. Deborah Olson Executive Assistant

Ms. Brenda Lopez-Price



JPM CBRN Medical **COL Matt Clark** Executive Assistant Ms. Jenn Scott



JPM CBRN Sensors **COL Robert Carter III**

Executive Assistant Ms. Marjorie (Margie) Giles



Mr. Michael Poe

Executive Assistant

Ms. Tiffany Dickinson

JPEO-CBRND







Portfolio Overview

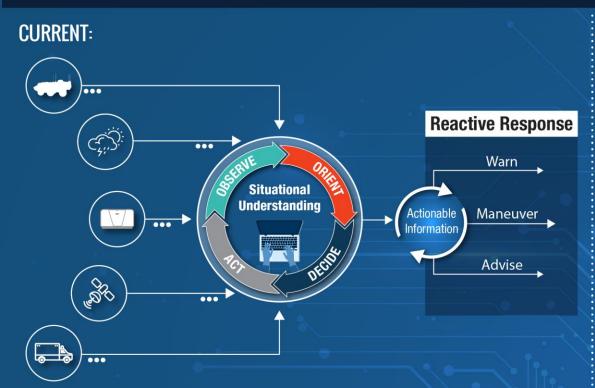
92 Acquisition Efforts • FY22 CBDP Budget: \$807.6+M (\$465.3M RDTE; \$342.2M PROC)



OUR INTEGRATION STRATEGY

GOAL: Integrated Layered CBRN Defense Across Combined Joint All Domain Operations





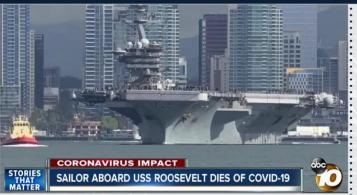


DATA INFORMATION UNDERSTANDING DECISION MAKING

OPERATIONAL IMPACTS: REAL WORLD EXAMPLE

- REDUCED FORCE READINESS
- MISSION TIME LOST
- SIGNIFICANT RECOVERY COST

Colvin_NDIA CBRN Conference_28JUL22



OPERATIONAL IMPACTS: NOTIONAL FUTURE EXAMPLE

- COMPREHENSIVE UNDERSTANDING OF IMPACT TO MISSION SUCCESS
- MINIMAL RESOURCES DIVERTED TO DIAGNOSE, TREAT, DECON/DISINFECT

UNCLASSIFIED



THE FUTURE MUST BE WELL-CONNECTED







What It Means

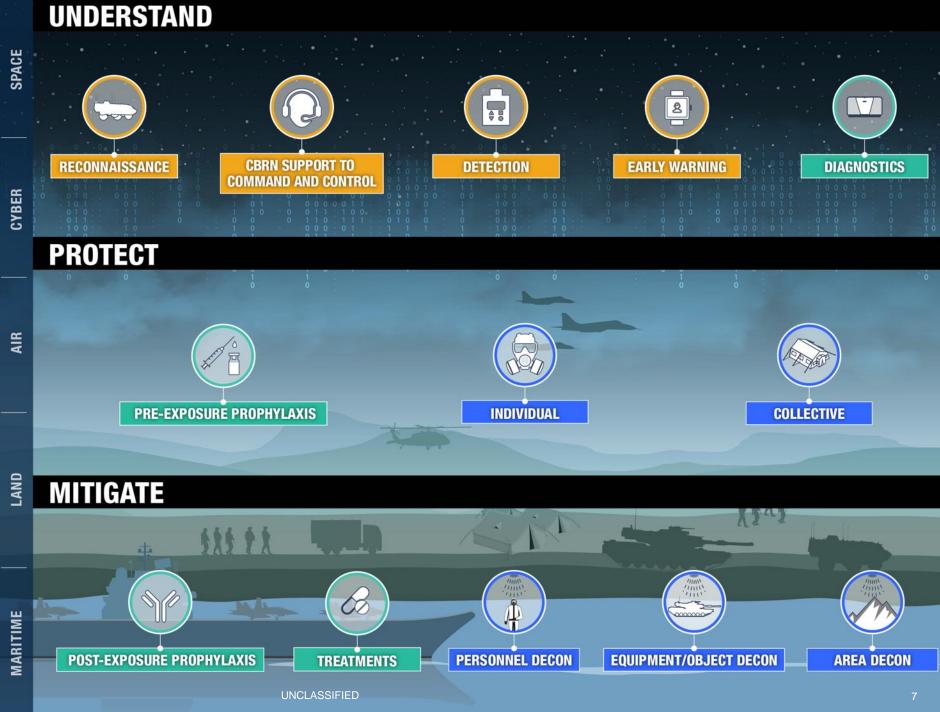
- Warfighters of the future need actionable information at the speed of relevance
- Battlespaces of the future need networked CBRN sensors that can seamlessly share information with each other and higher-level systems

What It Looks Like

- "CBRN environments" no longer exist as separate from other battlespaces CBRN is like any other denied environment
- 。 CBRN capabilities:
 - are so seamlessly integrated that they essentially go unnoticed (e.g., service uniform includes wearables; CBRN alerts/information display on IVAS)
 - function just like any other sensor (e.g., check engine light) and Warfighters are equally familiar with them
 - don't need to be switched on, unpacked, or plugged in they're already in place and working
- CBRN CONOPs only exist for responding to actionable information, not for employing specialized capabilities in specific scenarios

Integrated Layered CBRN Defense Across Combined Joint All Domain Operations











INTEGRATED EARLY WARNING

MODERNIZE BIOLOGICAL DEFENSE

- Flexible, Scalable, and Interoperable Threat Agnostic Detection
- · Pre-symptomatic and Rapidly Reconfigurable Diagnostics
- Open-Architecture Diagnostic Assays and Platforms
- Al-based and Biological Models to Assess Efficacy and Safety
- Host-Response Assays

NEW START PROGRAMS

- Countering Emerging Threats Rapid Acquisition and Investigation of Drugs for Repurposing (CET RAIDR) (FY23)
- Vaccine Acceleration by Modular Progression (VAMP) (FY23)
- Biological Defense Innovation Program (BDIP) (FY24)
- Plague Monoclonal Antibodies (PLG MAB) (FY23)



- Threat Characterization and Hazard Modeling
- Artificial Intelligence and Machine Learning
- Wearable Sensors
- CBRN Information Nested with Joint All-Domain Command and Control (JADC2)

NEW START PROGRAMS

CBRN Support to Command & Control (CSC2) (FY24)

UNENCUMBERING THE WARFIGHTER

- Unobtrusive Individual Protection
- Biothreat Containment and Aeromedical Evacuation to Assure Continuity of Operations
- Quick and Effective Decontamination to Contain and Neutralize Spread

NEW START PROGRAMS

- MODERNIZE THE MASK
- Advanced System for Protection and Integrated Reduction of Encumbrances (ASPIRE) (FY24)
- Ground Mask MWO (FY24)

HAZARD MITIGATION

- CBRN Covers Coatings and Protective Overlays (C3PO) (FY23)
- Next Generation Personnel Decontamination (NGPD) (FY24)
- Tactical Contamination Mitigation System (TCMS) (FY23)
- Wide Area Decontamination System (WADS) (FY23)

BROAD SPECTRUM

Effective across multiple threats, offering a frontline defense and buying time to deploy targeted MCMs

Example: A broad-spectrum antiviral can be given after exposure to multiple encephalitic viral diseases to mitigate impact and spread



JPEO CBRND MEDICAL STRATEGY

Protect the warfighter against known and unknown CBRN threats



Understand, mitigate, and protect warfighter against prioritized threats with highly specific tests and MCMs



Example: A Naloxone autoinjector provides immediate protection to warfighters following an exposure to opioids in the field



EXPLOIT RAPID RESPONSE CAPABILITIES

Respond faster to the unknown!

ENHANCED BIODEFENSE







- Additional \$300+M investment in novel and advanced biodefense capabilities
- CBDP aligning biodefense modernization efforts to clear operational capability end states
 - Focus on technologies that enable agility, responsiveness
 - Address the dynamic and evolving biological threat landscape
 - Prioritize and support Joint All-Domain Operations (JADO)
 - Integrate the Department's biodefense capabilities with interagency investments
- Posture the Department to detect and identify emerging biological threats quickly, reduce risks, and prepare for, respond to, and recover from any type of biological threat-based event
 - o Goal 1: Enhancing Rapid Response Vaccine Platforms Research and Manufacturing
 - Goal 2: Expediting Surveillance and Pathogen Characterization
 - Goal 3: Expanding Protection Capabilities
 - Goal 4: Evolving Therapeutics Research and Development
 - Goal 5: Enhancing Biodefense Workforce and Biosafety

JPEO ENTERPRISE TECHNOLOGY TOOL (JETT)

JPE 9-CBRND

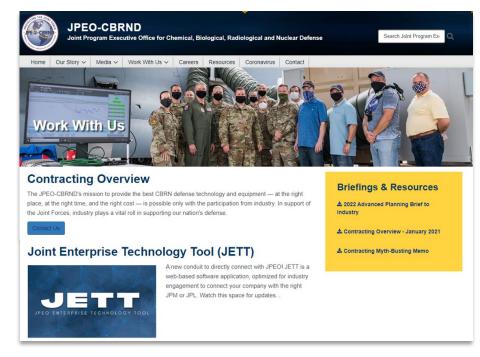




A new conduit to connect directly with the JPEO!

- » JETT is a web-based software application that facilitates industry engagement
- » Replaces traditional office calls with a more efficient process
- » Connects companies to the "right" point(s) of contact based on answers to a short questionnaire
- » Companies can also upload documents and additional information
- » Submissions will go directly to point(s) of contact for review and follow-up

https://www.jpeocbrnd.osd.mil/Work-With-Us





UPCOMING ENGAGEMENTS







Later today at NDIA

- Medical Product Development to Address CBRN and Public Health Threats
 - COL Matt Clark, JPM CBRN Medical
 - Mr. Bruce Goodwin, JPL CBRND Enabling Biotechnologies
- Developing Physical Capabilities to Address CBRN Threats
 - COL Robert Carter, JPM CBRN Sensors
 - Ms. Deborah Olson, JPM CBRN Protection
 - Mr. Michael Poe, JPM CBRN SOF
 - Mr. Paul Gietka, JPL CBRN Integration

Events and Conferences

- o CBRNe Summit | October 4, 2022 | Denver, CO
- CBD S&T Conference | December 6-8, 2022 | San Francisco, CA

In Case You Missed It

- BIO-hosted Webinar: Partnering with the Department of Defense to Protect the Warfighter: Investments in National Health Security
- https://www.bio.org/policy/human-health/vaccines-biodefense



CONTACT

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