



◆ UNCOMPROMISING INTEGRITY ◆ RESPECT FOR ALL ◆ COMMITTED TO EXCELLENCE ◆ ALWAYS READY ◆

JPEO-CBRND

COMMAND BRIEF

Date

Presenter Name
Presenter Title



PROGRAMS EXECUTED ON BEHALF OF THE CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM

P.A.I.D. U.P.

PEOPLE
first

ADAPT
to the Joint Force's needs

INTEGRATE
layered CBRN defense

DELIVER
on our commitments

UNITY
of command/effort

PIVOT
to incremental capability



WE FACE A COMPLEX THREAT ENVIRONMENT

KNOWN THREATS



POLITICO
Russia used chemical weapons in Ukraine, US says
May 02, 2024

EVOLVING THREATS



The Telegraph
AI, cyber-attacks and amateur experiments threaten to upend global biosecurity, WHO warns
July 12, 2024



The New York Times
North Korea's latest missile test suggests arms race with South
July 02, 2024



AP
Concern over Syria's chemical weapons stockpile triggers emergency meeting of global monitor
December 12, 2024



The Washington Times
China grows domestic bio weapons tech industry
February 28, 2024



essanews
NATO debates nuclear readiness amid Russian and Chinese threats
June 17, 2024

◀ We must prepare for and respond quickly to the full spectrum of chemical, biological, radiological, and nuclear threats ▶

WHO WE ARE AND WHAT WE DO



JPEO-CBRND

MISSION: Provide integrated layered Chemical, Biological, Radiological, and Nuclear defense capabilities to the Joint Force across warfighting functions and combined Joint All-Domain Operations.

VISION: A resilient Joint Force enabled to fight and win unencumbered by a chemical, biological, radiological, or nuclear environment; championed by innovative, agile, results-oriented acquisition professionals.

UNDERSTAND

PROTECT

MITIGATE

ENABLE



CBDP

MISSION: Anticipates and deters future threats by developing and delivering timely chemical and biological (CB) defense capabilities that enable a resilient Joint Force to prevail in CB-contested environments and protect the nation.

VISION: An agile, warfighter focused Enterprise that generates decisive chemical and biological defense advantages to maximize deterrence and defend the nation.

Support CBRN Integrated Layered Defense/Deterrence **by denying our adversaries any advantage** to using CBRN weapons

NATIONAL POLICIES AND GUIDANCE

- ❖ National Security Strategy (2022)
- ❖ Interim National Defense Strategic Guidance (2025)
- ❖ DoD Strategy for Countering Weapons of Mass Destruction (2023)
- ❖ Biodefense Posture Review (2023)
- ❖ Army Biological Defense Strategy (2021)
- ❖ Chemical and Biological Defense Program Enterprise Strategy (2024)

...and others in development and coming soon





JPEO-CBRND ORGANIZATION LEADERSHIP

UNCLASSIFIED



JPEO
Mr. Darryl Colvin
*Executive Assistant
Ms. Quneitra Quintero*



Deputy JPEO
Ms. Nicole Kilgore
*Executive Assistant
Ms. Carol Keyes*



Chief of Staff
Mr. Gordon Graham



Director for Acquisition & Systems Management
Mr. Wyatt Ulrich



Joint Warfighter Concept Integrator
Ms. Rachel Overman

Joint Project Managers (JPM)



JPM CBRN Protection
Mr. Steven Batts

Deputy JPM
Ms. Stacey Shepherd
*Executive Assistant
Ms. Brenda Lopez-Price*



JPM CBRN Medical
COL John Nuckols

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JPM CBRN Sensors
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Deputy JPM
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JPM CBRN Special Operations Forces
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Deputy JPM
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*Executive Assistant
Ms. Michelle Stier*

Joint Project Leads (JPL)



JPL CBRN Integration
Mr. Paul Gietka

Deputy JPL
Mr. Matt Shoultz
*Executive Assistant
Ms. Jeanette Benton*



JPL CBRN Enabling Biotechnologies
Mr. Bruce Goodwin

Deputy JPL
Ms. Nicky Dorsey
*Executive Assistant
Ms. Nehemirah Maxwell*

JPEO-CBRND PORTFOLIO OVERVIEW



99 Acquisition Efforts • FY25 CDBP Proposed Budget: \$1.205B (\$1.091B RDTE; \$426M PROC)

JPM CBRN PROTECTION

► COLLECTIVE



► INDIVIDUAL



► DECONTAMINATION



JPM CBRN MEDICAL

► PROPHYLAXIS



► DIAGNOSTICS



► THERAPEUTICS



JPM CBRN SENSORS

► POINT/STANDOFF DETECTION



► RECONNAISSANCE



► AUTONOMOUS



JPM CBRN SPECIAL OPERATIONS FORCES

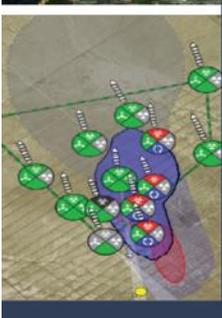
► PROTECTION



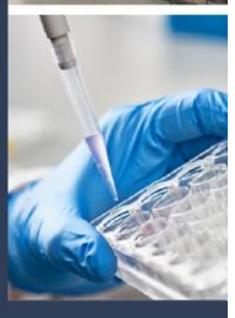
► SENSORS



JPL
CBRN
INTEGRATION



JPL
CBRND
EB



Jan 2025



Joint Biological Agent Decontamination System (JBADS)



Joint Service Aircrew Mask for Strategic Aircraft (JSAM-SA)

**PIVOTING TO
MEET THE NEEDS
OF THE NATION**



Rapid Opioid Countermeasure System (ROCS)



Nuclear Biological Chemical Reconnaissance Vehicle Sensor Suite Upgrade (NBCRV SSU)

JPEO-CBRND P.A.I.D. U.P. APPROACH TO ADVANCE OUR MISSION



P.A.I.D. U.P.



PEOPLE

first



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INTEGRATED LAYERED CBRN DEFENSE: EVOLVING TODAY FOR TOMORROW'S BATTLESPACE



V9.2 - 27 Aug 2024

ENABLE



UNDERSTAND

PROTECT

MITIGATE

SPACE

CYBER

AIR

LAND

MARITIME

EARLY WARNING

PRE-EXPOSURE INDIVIDUAL PROPHYLAXIS

DETECTION

CBRN RECONNAISSANCE

DIAGNOSTICS COLLECTIVE

AREA DECON CBRN SUPPORT TO COMMAND AND CONTROL

EQUIPMENT/ DETECTION OBJECT DECON

DETECTION DIAGNOSTICS

PERSONNEL DETECTION DECON

THERAPEUTICS POST-EXPOSURE PROPHYLAXIS



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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 viral diseases to mitigate impact and spread

TARGETED



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

MEDICAL STRATEGY

Develop medical countermeasures to protect against and treat exposure to CBRN threats

CBRN Event



Traditional MCM development



Rapid Response



Capability delivered



EXPLOIT RAPID RESPONSE CAPABILITIES

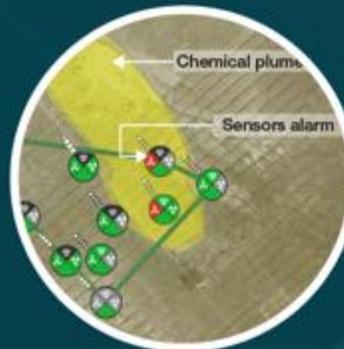
Respond faster to the unknown



NETWORKED



Leverage data, engineering, and software to connect capabilities



CBRN Support to Command and Control (CSC2)



UNENCUMBERED

Develop smaller, lighter, more portable capabilities



Uniform Integrated Protection Ensemble Family of Systems General Purpose (UIPE FoS GP)

PHYSICAL STRATEGY

Develop platform agnostic capabilities to provide integrated CBRN data

AUTONOMOUS



Provide capabilities that quickly and effectively detect and mitigate



Joint Personal Dosimeter-Individual (JPD-I)

DELIVER ACTIONABLE INFORMATION

Respond faster to the unknown

JOINT ENTERPRISE TECHNOLOGY TOOL (JETT)



Connect Directly with the JPEO-CBRND

- » Web-based industry engagement tool
- » Connects companies to appropriate points of contact based on answers to a short questionnaire
- » Cross-enterprise access facilitates collaboration among and with government organizations

Since JETT Launched in July 2022

QUICK STATS

Average response time:



- **1 week:** Initial response
- **< 3-4 weeks:** Conduct meeting/demo

500+

VENDOR SUBMISSIONS

Shared access



Interagency partners

450+

INDIVIDUAL COMPANIES/ ORGANIZATIONS

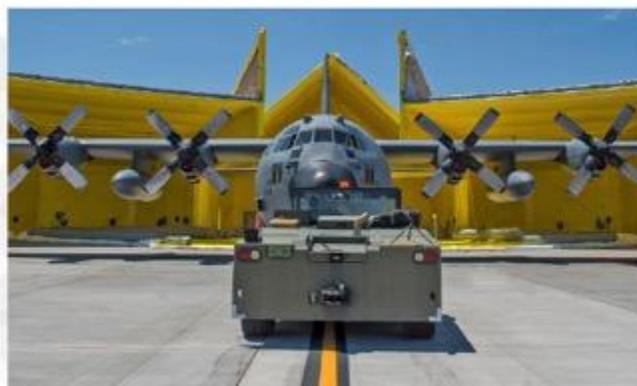
JETT - YOUR CONDUIT FOR DOING BUSINESS WITH THE JPEO-CBRND



WORK WITH US

www.jpeocbrnd.osd.mil/Work-With-Us/JETT-Joint-Enterprise-Technology-Tool/

SERVING THE JOINT FORCE





@JPEOCBRND

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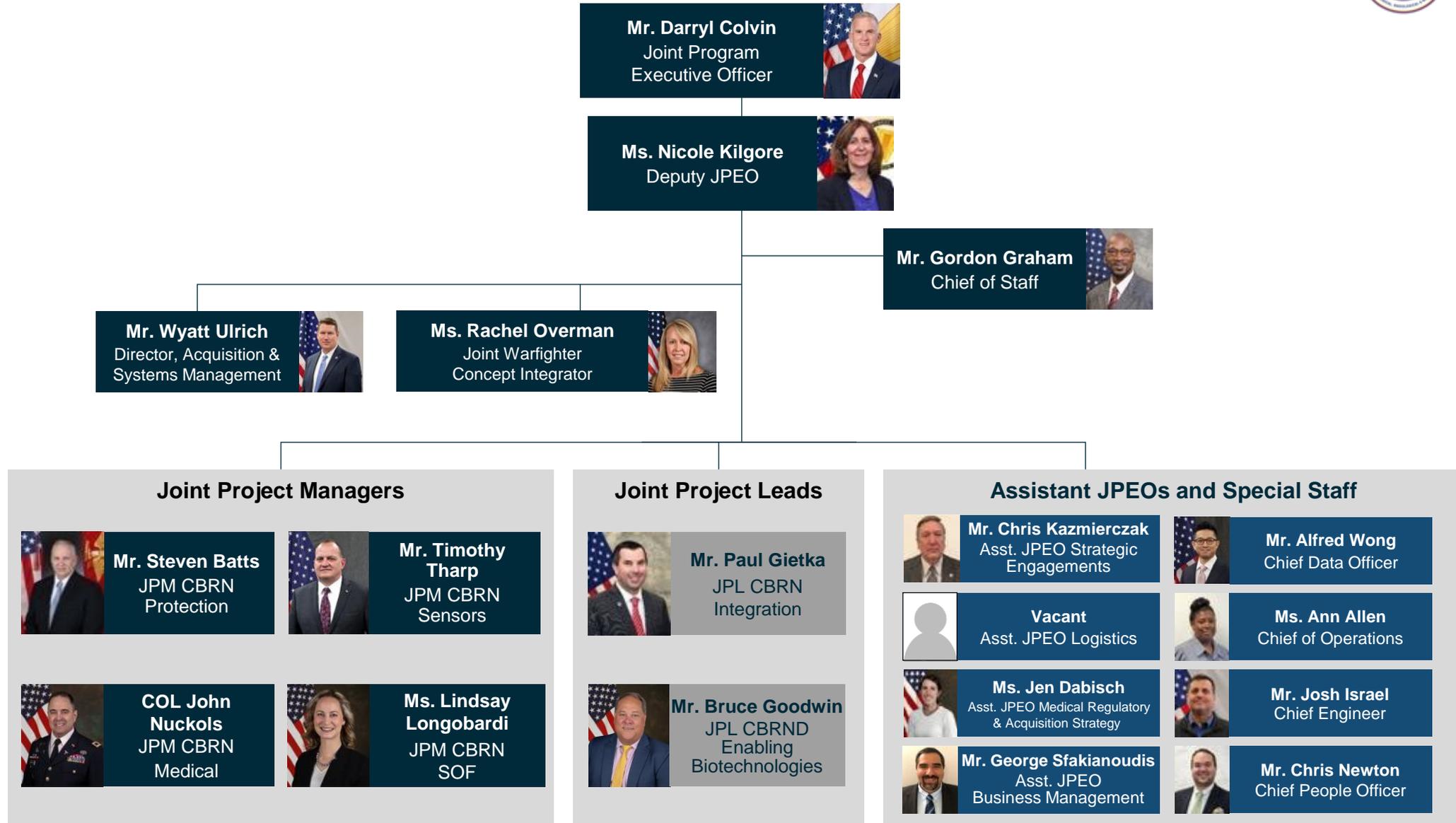
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BACKUPS



JPEO-CBRND ORGANIZATION

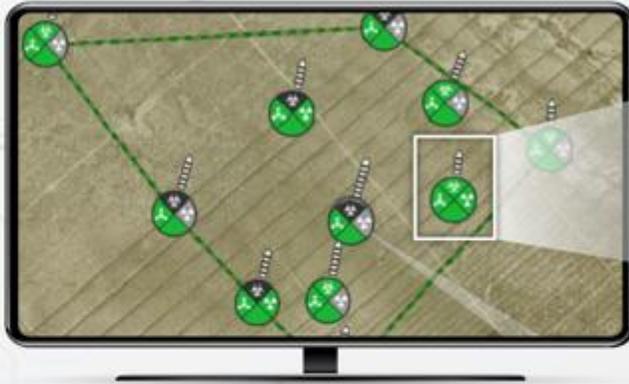


CBRN SUPPORT TO COMMAND AND CONTROL (CSC2)

Integrated Situational Awareness to Inform Decision Making on the Battlefield



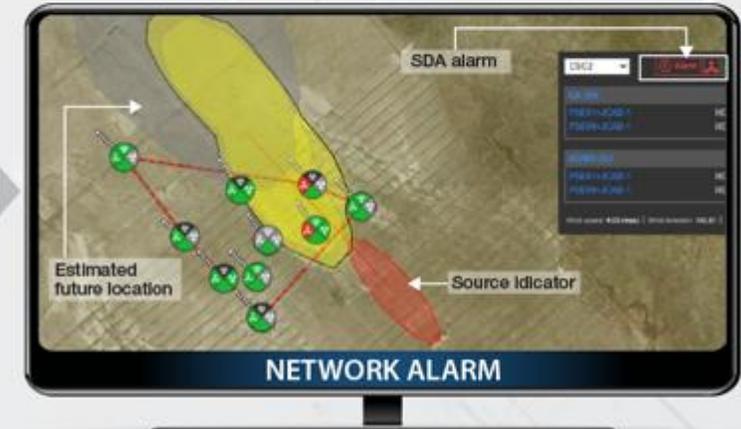
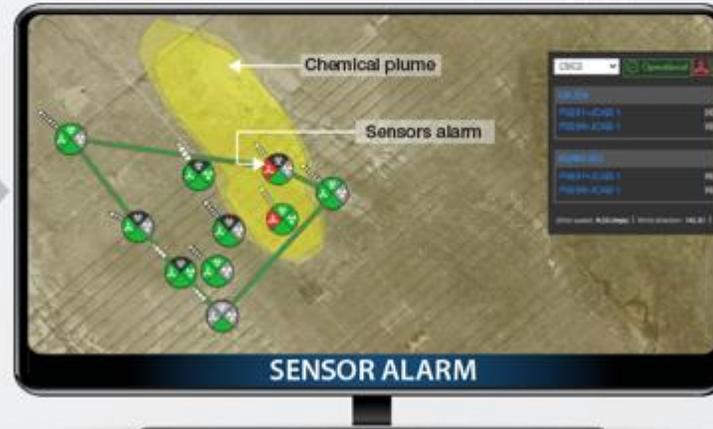
SYSTEM OVERVIEW



KEY:

- Meteorological (wind speed, temp, direction)
- Chemical Status (AVCAD | JCAD)
- Biological Status (JBTDs | IBAC)
- Radiological Status (RDS)
- Sensor Data Analytics (SDA)
- Biological Sensor Collection

CHEMICAL DETECTION SCENARIO (EXAMPLE)



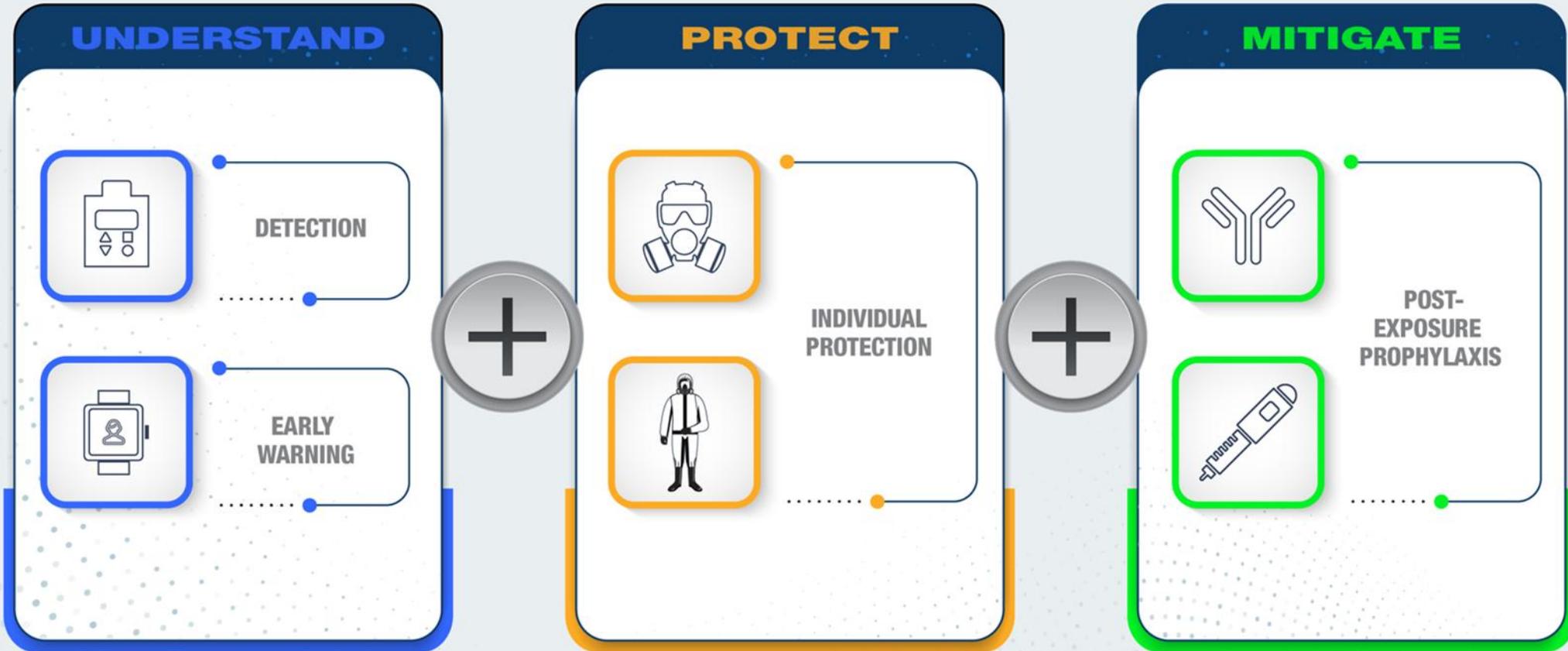
HOW DO WE EVOLVE? *Identify and develop enterprise services that achieve:*

- Integration of CBRN capabilities and data with existing user systems across the Services
- Interoperability of CBRN data and non-CBRN data to create a holistic picture that includes CBRN information

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CAPABILITY PORTFOLIO MANAGEMENT

Example for Supporting Structure of CBRN Integrated Layered Defense



The capabilities we deliver combine to support CBRN Integrated Layered Defense

JPEO-CBRND

MODERNIZATION FOCUS AREAS



MODERNIZE BIOLOGICAL DEFENSE

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



INTEGRATED EARLY WARNING

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

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



JPEO-CBRND STRATEGIC GOALS



● STRATEGIC GOAL 1

Achieve CBRN Defense integration, interoperability, and interdependence across all warfighting domains and functions.

● STRATEGIC GOAL 2

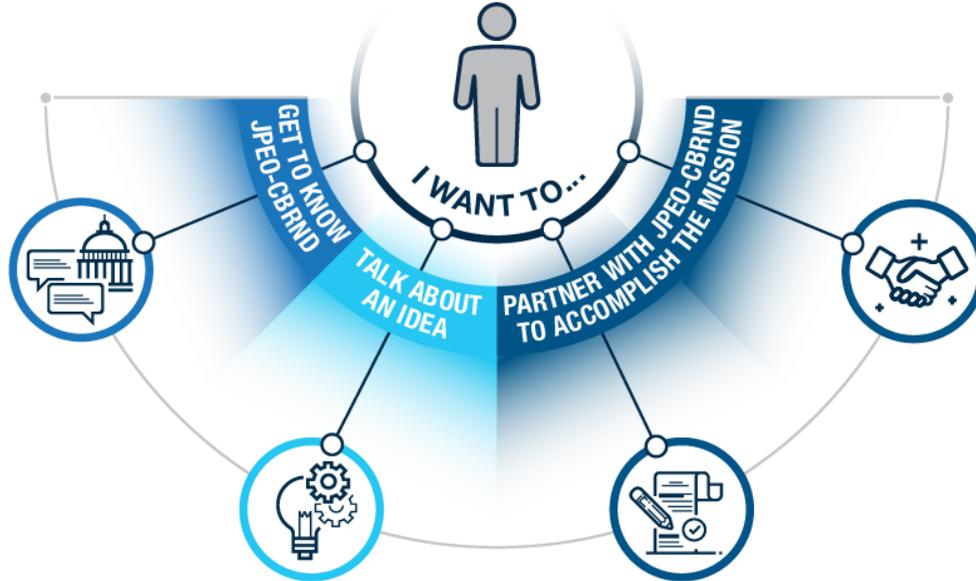
Foster an environment that seeks innovative enterprise solutions across industry, academia, and warfighters that is agile, versatile and efficient.

● STRATEGIC GOAL 3

Provide indispensable value to the warfighter, DoD, Congress, the Nation and our allies/partners.

WORK WITH US

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GOVERNMENT AND INDUSTRY ENGAGEMENTS

Industry Days

Conferences

Joint Enterprise Technology Tool (JETT)

CONTACT: Public Affairs Office
usarmy.apg.dod-jpeo-cbrnd.mbx.
public-affairs@army.mil

TECHNOLOGY AND INNOVATIONS

SPARK

Early Discoveries Accelerator for Innovative Minds

Cooperative Research and Development Agreement

JPM CBRN Medical TechWatch

CONTACT: Josh Israel
joshua.d.israel4.civ@army.mil
443-655-3513

OTHER TRANSACTION AUTHORITY (OTA)

Medical CBRN Defense Consortium (MCDC) OTA

Combating Weapons of Mass Destruction (CWMD) OTA

CONTACT:
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lee.a.hess.civ@army.mil
240-344-0462
www.medcbrn.org

CWMD OTA POC: Keith Batchelor
roger.k.batchelor2.civ@army.mil
240-586-1523
www.cwmdconsortium.org

FEDERAL ACQUISITION REGULATION (FAR) CONTRACTS

JE-CLASS – Logistics

JE-OPETS – Contract Support Personnel

JE-RDAP – Development, Procurement, and Sustainment

Stand Alone Contracts

Medical Broad Agency Announcement

CONTACT: Jenny Buchness
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