



◆ 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

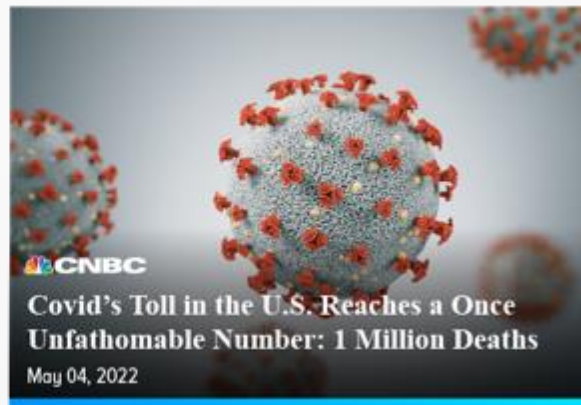
UNITY
of command/effort

PIVOT
to incremental capability

WE FACE A COMPLEX THREAT ENVIRONMENT



KNOWN THREATS



EMERGING THREATS



« We must prepare for and respond quickly to the full spectrum of the 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 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



CBDBP

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 Integrated Deterrence by denying our adversaries any advantage to using CBRN weapons

NATIONAL POLICIES AND GUIDANCE

- ❖ National Security Strategy (2022)
- ❖ National Defense Strategy (2022)
- ❖ DoD Strategy for Countering Weapons of Mass Destruction (2023)
- ❖ National Biodefense Strategy and Implementation Plan (2022)
- ❖ Biodefense Posture Review (2023)
- ❖ Army Biological Defense Strategy (2021)
- ❖ Chemical and Biological Defense Program Enterprise Strategy
- ❖ Chemical and Biological Defense Program Enhanced Biodefense Strategy
- ❖ American Pandemic Preparedness Plan (2021)

...and others in development and coming soon





JPEO-CBRND ORGANIZATION LEADERSHIP



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 Matthew Clark

Deputy JPM
Mr. Jeff Zerhusen

Executive Assistant
Ms. Holly Randles



JPM CBRN Sensors
Mr. Timothy Tharp

Deputy JPM
Mr. L. Clay Williamson

Executive Assistant
Ms. Nicole Harris



JPM CBRN Special
Operations Forces
Ms. Lindsay Longobardi

Deputy JPM
Ms. Deb Olson

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 CBRND
Enabling Biotechnologies
Mr. Bruce Goodwin

Deputy JPL
Ms. Nicky Dorsey (Acting)

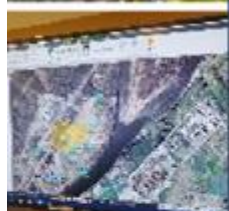
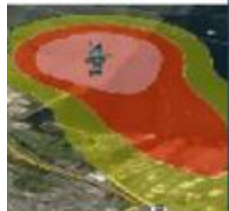
Executive Assistant
Ms. Nehemrah Maxwell

JPEO-CBRND PORTFOLIO OVERVIEW



103 Acquisition Efforts • FY24 CDBP Appropriated Budget: \$1.088B (\$709.3M RDTE; \$378.9M PROC)

JPL CBRN INTEGRATION



JPM CBRN PROTECTION

► COLLECTIVE



► INDIVIDUAL



► DECONTAMINATION



JPM CBRN MEDICAL

► PROPHYLAXIS



► DIAGNOSTICS



► THERAPEUTICS



JPM CBRN SENSORS

► POINT/STANDOFF DETECTION



► RECONNAISSANCE



► AUTONOMOUS

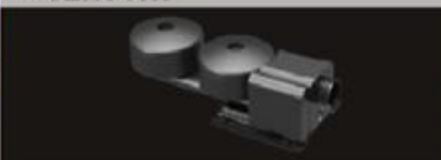


JPM CBRN SPECIAL OPERATIONS FORCES

► PROTECTION



► SENSORS

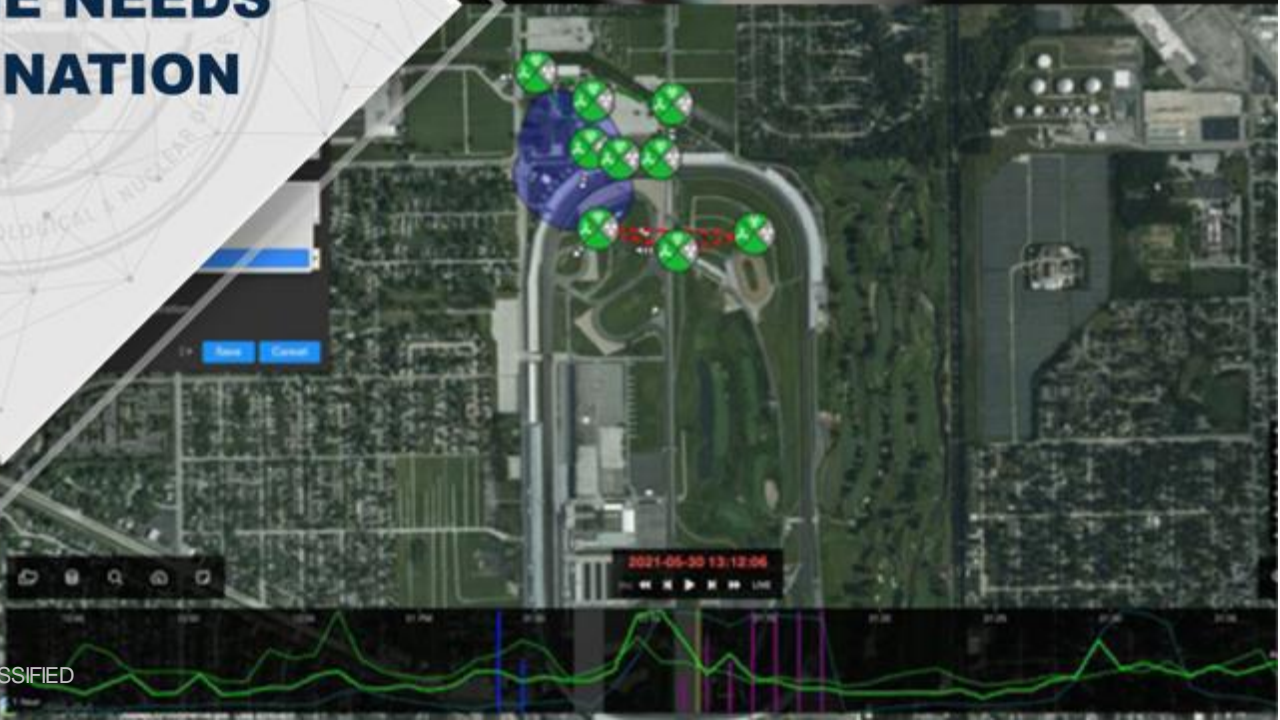


JPL CBRND EB





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



JPEO-CBRND FY24 PILLARS

PAID UP Approach to Advance Our Mission



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



PEOPLE

first



ADAPT

to the Joint
Force's needs



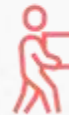
INTEGRATE

layered
CBRN defense



DELIVER

on our
commitments



UNITY

of command/
effort



PIVOT

to incremental
capability





INTEGRATED LAYERED CBRN DEFENSE



KEY

PROTECTION MEDICAL SENSORS

UNDERSTAND

SPACE



RECONNAISSANCE



CBRN SUPPORT TO
COMMAND AND CONTROL



DETECTION



EARLY WARNING



DIAGNOSTICS

CYBER

PROTECT

AIR



PRE-EXPOSURE PROPHYLAXIS



INDIVIDUAL



COLLECTIVE

LAND

MITIGATE

MARITIME



POST-EXPOSURE PROPHYLAXIS



TREATMENTS



PERSONNEL DECON



EQUIPMENT/OBJECT DECON



AREA DECON

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

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

MEDICAL STRATEGY

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



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

CBRN
Event



Traditional MCM development



Rapid Response



Capability
delivered



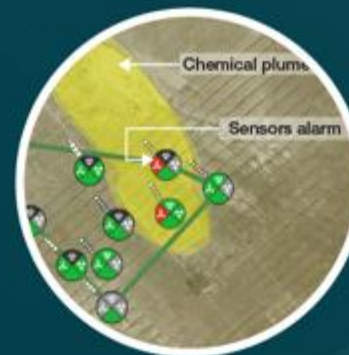
EXPLOIT RAPID RESPONSE CAPABILITIES

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

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)



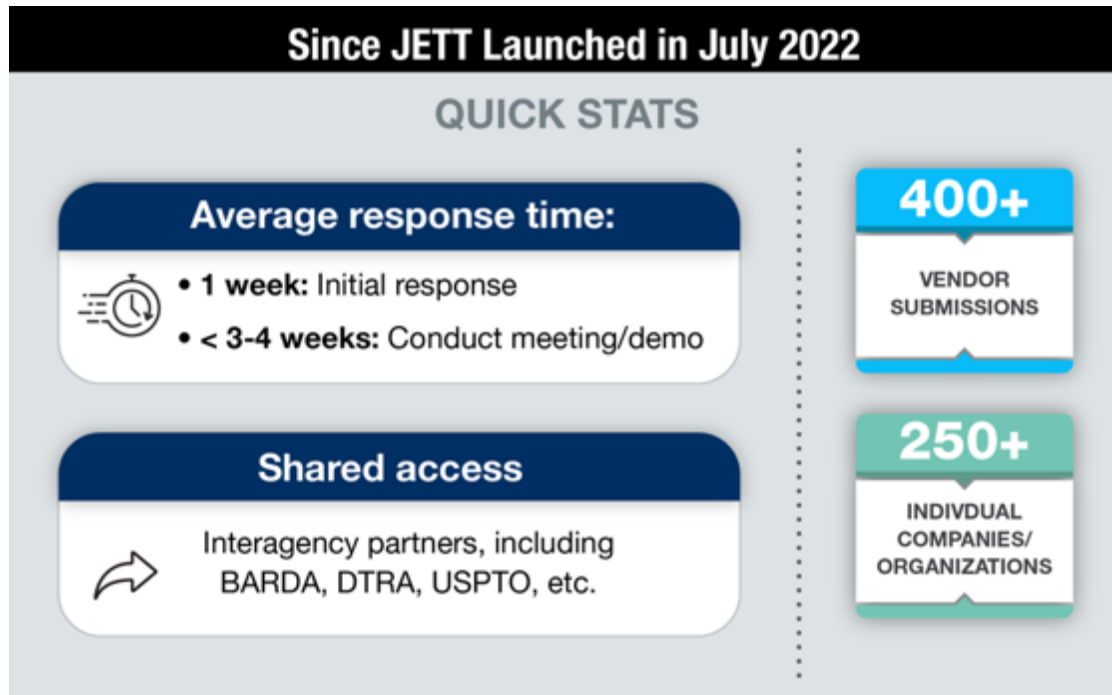
HOW DO WE EVOLVE? *Identify and develop enterprise services that achieve:*

- 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

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



WWW.JPEOCBRND.OSD.MIL/WORK-WITH-US



WORK WITH US

WWW.JPEOCBRND.OSD.MIL/WORK-WITH-US



WORK WITH US

WWW.JPEOCBRND.OSD.MIL/WORK-WITH-US



SERVING THE JOINT FORCE



CONTACT

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Chemical, Biological, Radiological and Nuclear Defense

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www.jpeocbrnd.osd.mil



WORK WITH US

WWW.JPEOCBRND.OSD.MIL/WORK-WITH-US



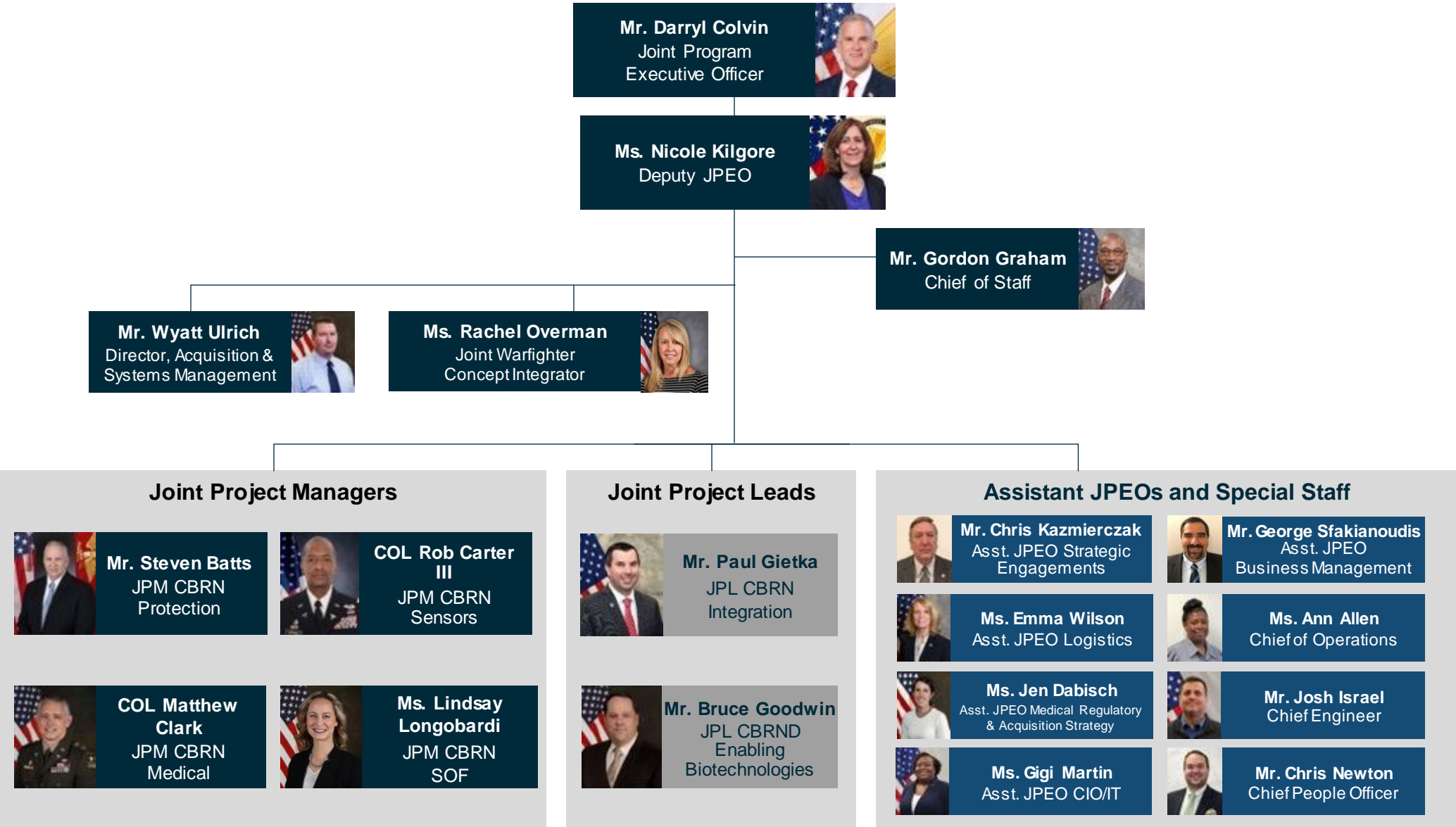
@JPEOCBRND



BACKUPS

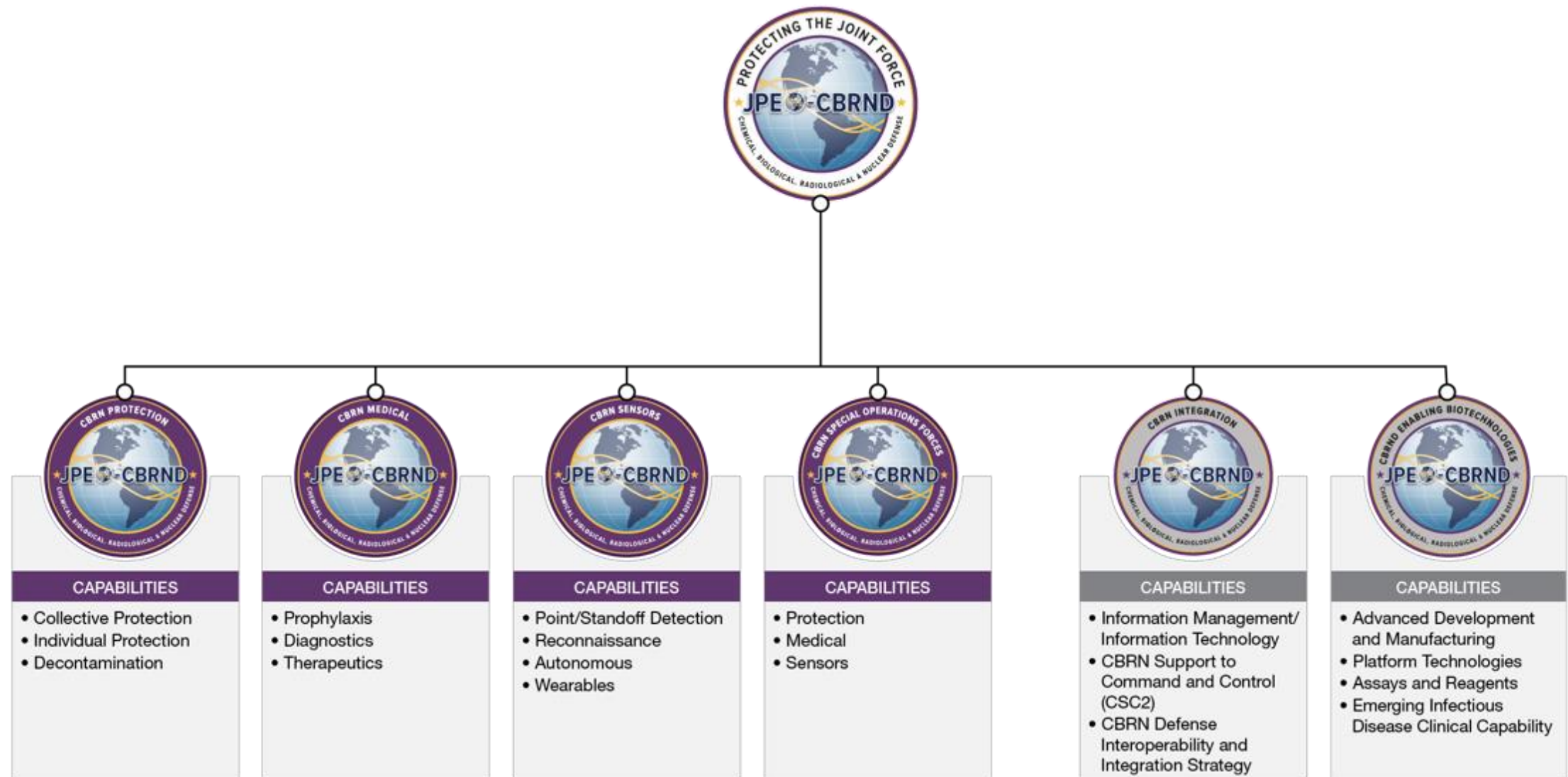


JPEO-CBRND ORGANIZATION



JPEO-CBRND

Portfolio Overview



JPEO-CBRND'S WHOLE OF GOVERNMENT SUPPORT TO COVID-19



TIMELINE



WHAT WE ACCOMPLISHED

\$76B+

OBLIGATED
across 200+ contracts



VACCINES

2B+
doses

(768M+ doses donated
to 130+ countries)

TESTING

890M+
at home tests

TREATMENTS

26.7M+
antiviral doses

8M+

monoclonal antibody doses

SUPPLIES & MATERIALS

1.38B+

U.S. INDUSTRIAL BASE EXPANSION

\$2.3B+

HOW WE ACCOMPLISHED IT

OUR PARTNERS

Success built on a foundation of new and existing partnerships



OUR PEOPLE

Rapid response driven by an expert, committed workforce

JPEO-CBRND Subject Matter Experts

- Contracts
- Finance
- Engineers
- Acquisition
- Scientists
- Logistics
- Regulatory

JPEO-CBRND's Joint Assisted Acquisition (JA2) Team

- Employed 114 staff at peak (2QFY22) with all Services represented



UNCLASSIFIED

WHAT'S NEXT

PLANNED TRANSITION

Transition the COVID-19 public health response mission to HHS
by 30 September 2023



LEVERAGING INSIGHTS

DoD is leveraging insights to be more agile and responsive



ENHANCING BIODEFENSE EFFORTS



MAINTAINING FLEXIBLE ACQUISITION SOLUTIONS



SUSTAINING PARTNERSHIPS





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

NEW START PROGRAMS

- Advanced Differential Diagnostics (ADD) (FY24)
- Far Forward Biological Sequencing (FFBS) (FY24)
- Non-targeted Sequencing Identification System (NSIS) (FY24)
- Reactivating Nerve Agent Treatment System (RNATS) (FY24)



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)

NEW START PROGRAMS

- Wearable All-Hazard Remote-Monitoring Program (WARP) (FY24)
- Physiological Monitoring Sensor Suite (PM2S) (FY24)
- Advanced Radiological Nuclear Detection Family of Systems (ARND FoS) (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

- Automated Decontamination System (ADS) (FY24)
- Collective Protection Containerized Expedition Enhanced Biodefense (COL PRO CONEX ENBD) (FY24)
- Uniform Integrated Protective Ensemble Family of Systems Footwear (UIPE FoS Footwear) (FY24)

JPEO-CBRND STRATEGY & GOAL MAPPING

Defense Acquisition Resourcing & Authorities



ASD(NCB) Goals

- Secure, sustain, and maintain the U.S. nuclear deterrent...
- Enable Joint Force freedom of maneuver in CBRN environments
- Develop capabilities to counter CBRN threats and respond...
- Support and enable allies and partners...
- Streamline policies, procedures, and guidelines...

DASD(CBD) Goals

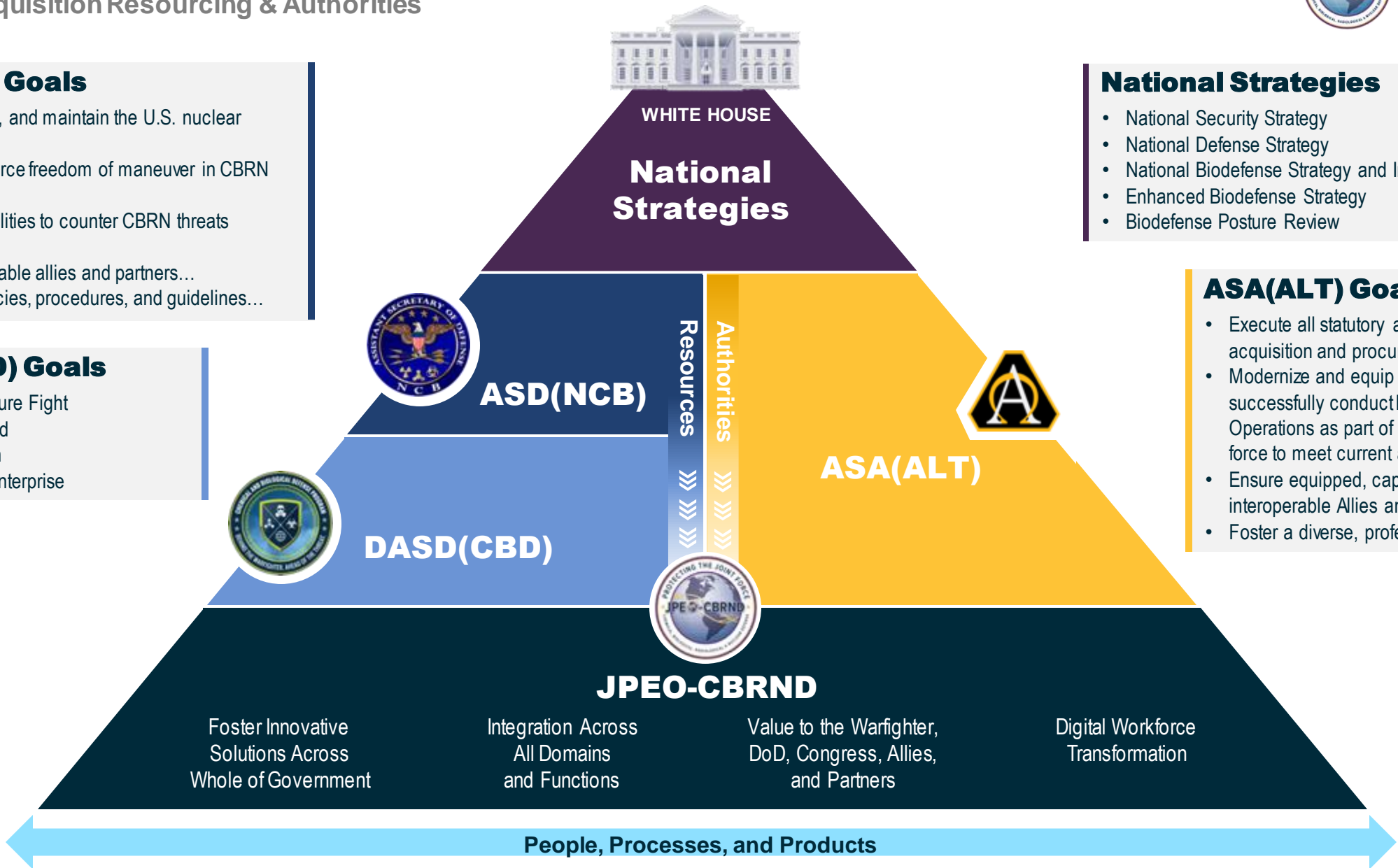
- Plan for the Future Fight
- Deliver At Speed
- Drive Innovation
- Optimize The Enterprise

National Strategies

- National Security Strategy
- National Defense Strategy
- National Biodefense Strategy and Implementation Plan
- Enhanced Biodefense Strategy
- Biodefense Posture Review

ASA(ALT) Goals

- Execute all statutory and regulatory acquisition and procurement requirements
- Modernize and equip the Army to successfully conduct Multi-Domain Operations as part of an integrated, Joint force to meet current and future demands
- Ensure equipped, capable, and interoperable Allies and Partners
- Foster a diverse, professional workforce...



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



V9.1 - 26 March 2024

ENABLE



UNDERSTAND



PROTECT



MITIGATE

SPACE

CYBER

AIR

LAND

MARITIME



ENABLE



• Threat, adversary intent and capability

• DOTmLPF-P

• Industry Partners

• Analyses and Assessments

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

JPEOCBRND.OSD.MIL/work-with-us



GOVERNMENT AND INDUSTRY ENGAGEMENTS

Industry Days

Conferences

Joint Enterprise
Technology Tool (JETT)

CONTACT: Public Affairs Office
usarmy.apg.dod-jpeo-cbrnd.mbx.
jpeo-cbd-public-affairs-office@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:
MCDC OTA POC: Lee Hess
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: Alan Burket
alan.r.burket.civ@army.mil
443-655-8608



WORK WITH US

JPEOCBRND.OSD.MIL/WORK-WITH-US

ASSISTANT JOINT PROGRAM EXECUTIVE OFFICER FOR MEDICAL REGULATORY AND ACQUISITION STRATEGY (MRAS) HELPING YOU NAVIGATE THE MEDICAL REGULATORY ENVIRONMENT



MAP A PATH



- Begin advising at program initiation
- Leverage Regulatory Intelligence*
- Determine capability-specific path:
 - Remain outside regulatory jurisdiction
 - Lessen regulatory burden

NAVIGATE THE PROCESS



- Guide along the regulatory framework
- Conduct periodic check-ins
- Coordinate with legal, regulatory, and policy partners
- Leverage Regulatory Intelligence*
- Monitor changes in direction to avoid accidents and pitfalls

CROSS THE FINISH LINE



- Facilitate smooth arrival at approval, licensure, or clearance
- Leverage Regulatory Intelligence*
- Ensure final documentation aligns with regulatory requirements
- Monitor and ensure post-approval compliance

"Regulatory Intelligence"



Education

"Book Smarts"



Experience/Wisdom

"Street Smarts"

