Partnering with the Department of Defense to Protect the Warfighter: Investments In National Health Security

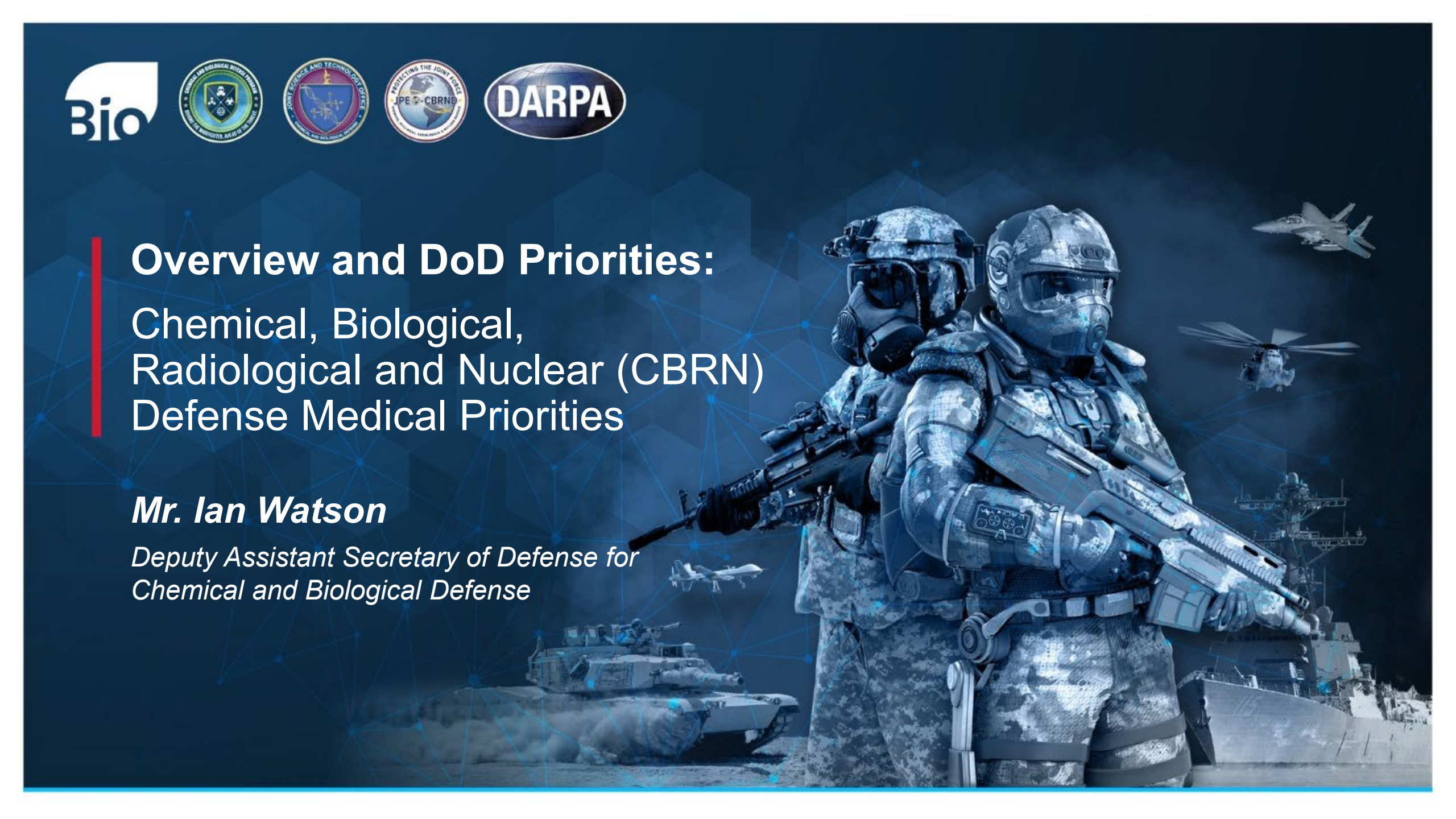
June 30, 2022

Overview and DoD Priorities:

Chemical, Biological, Radiological and Nuclear (CBRN) Defense Medical Priorities

Mr. Ian Watson

Deputy Assistant Secretary of Defense for Chemical and Biological Defense



Overview and DoD Priorities:

Joint Science and Technology Office (JSTO) Overview

LTC Barbara Cloutier

Acting Division Chief, Warfighter Integration/ Military Advisor

CBDP Enterprise

CBDP mission:

Anticipate future threats & deliver capabilities that enable the Joint Force to survive, fight & win in chemical and biological (CB)-contested environments through a coordinated effort designed to neutralize adversarial CB threats.

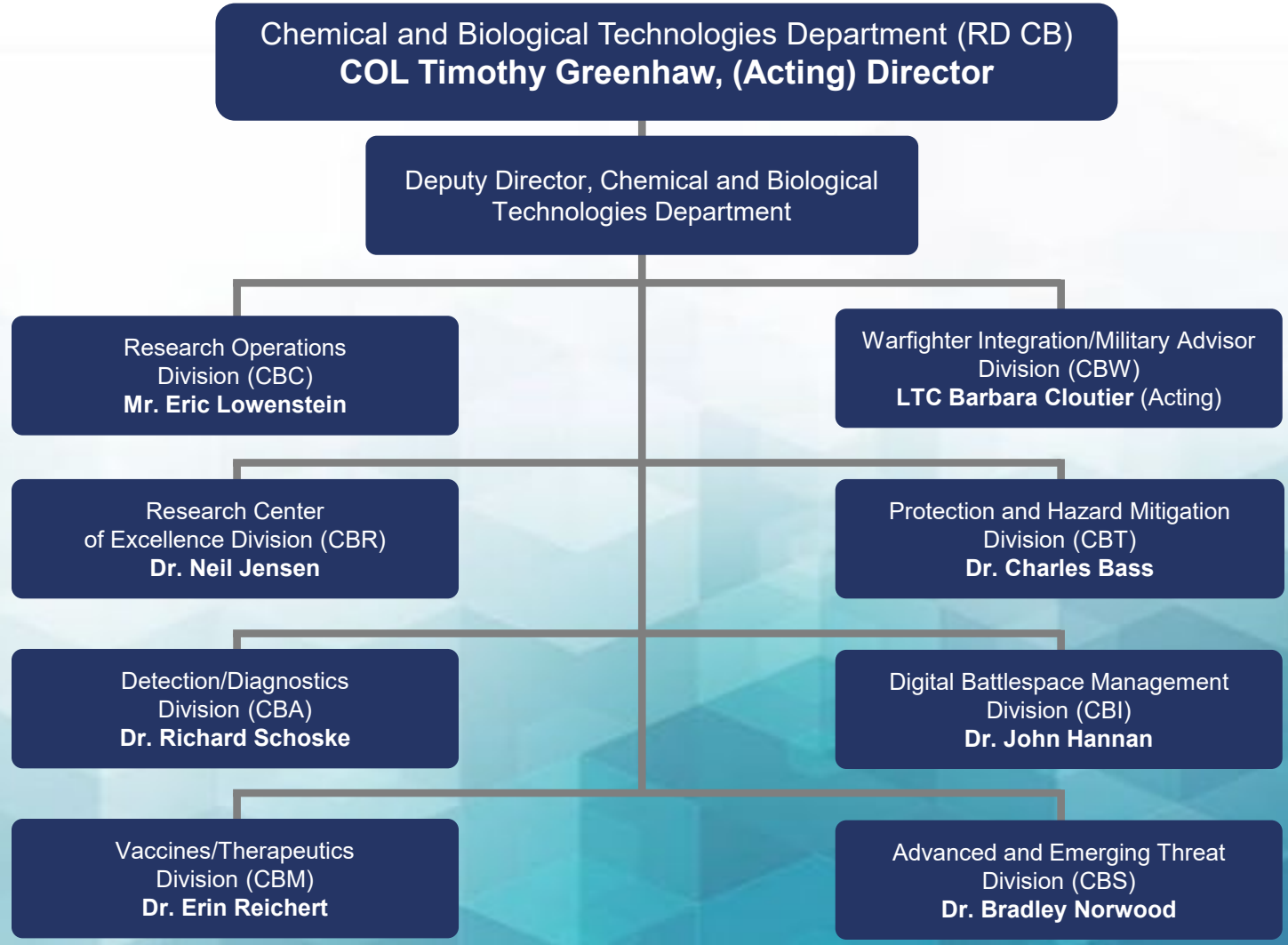
JRO-CBRN
Requirements to JSTO-CBD

JSTO-CBD
Mature technologies to JPEO-CBRND

Prioritized needs

JPEO-CBRND
Solutions to warfighter

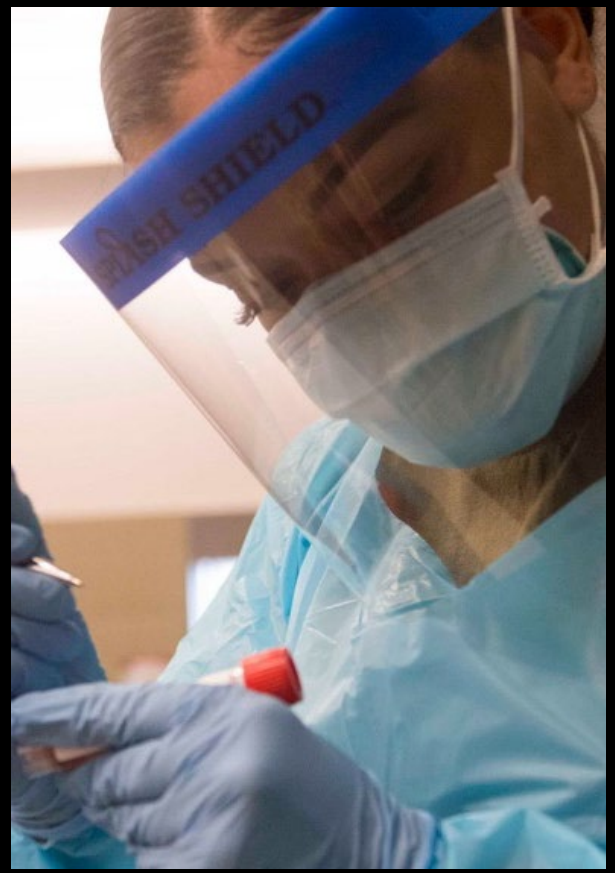
JSTO-CBD Structure



Solutions sooner rather than later …

RATE Algorithm

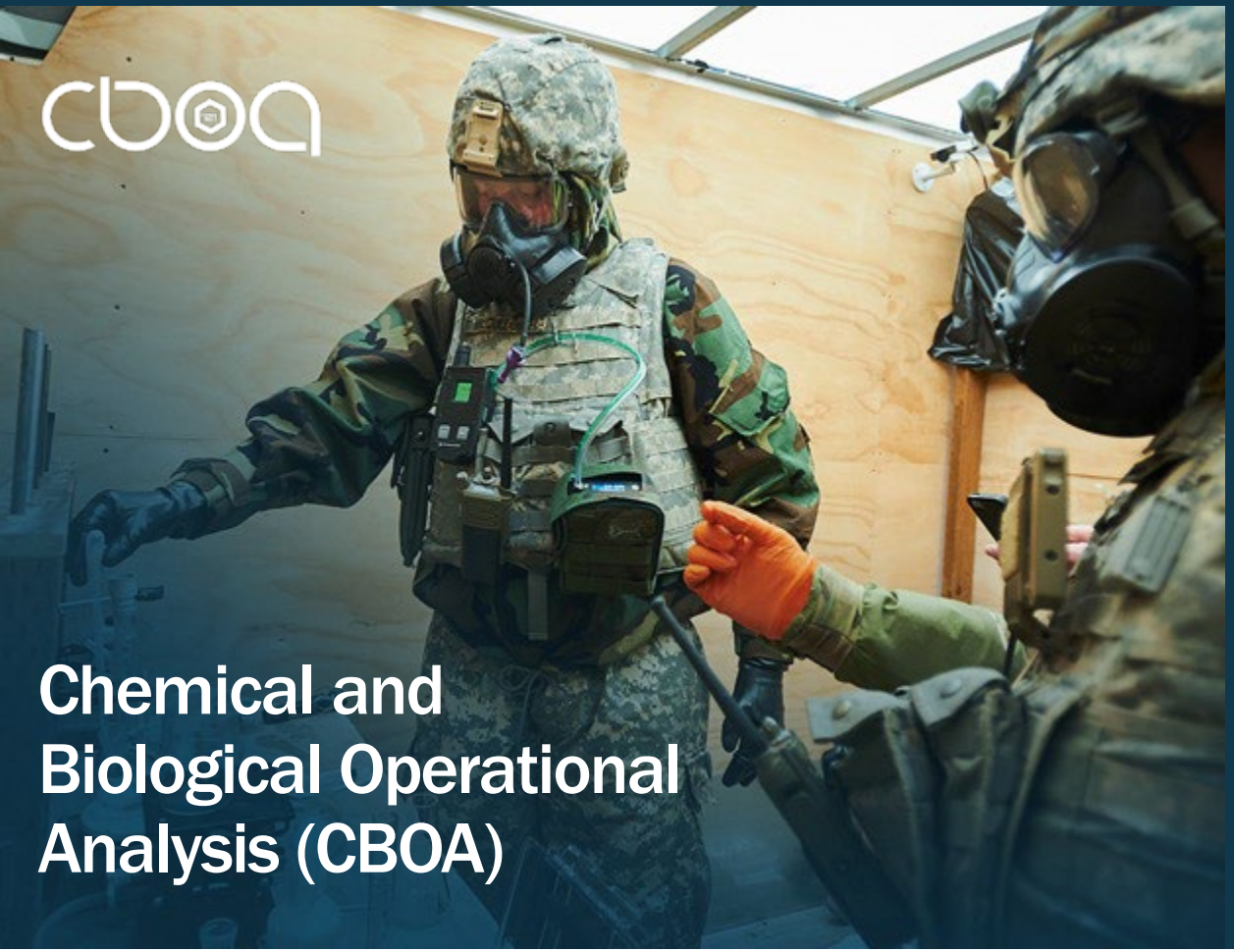
DOMANE



Me-Med

CBLITE Uniform

Connecting to Ops



Chemical and Biological Operational Analysis (CBOA)

Advanced Technology Demonstration (ATD)

For more information, please visit us at

www.dtra.mil

Visit us – Keyword: DTRA

Download our e-book Keyword: DTRA

The Defense Threat Reduction Agency's Chemical and Biological Technologies Department serves as the Joint Science and Technology Office within the Chemical and Biological Defense Program

Overview and DoD Priorities:

Joint Program Executive Office for CBRN Defense (JPEO-CBRND) Overview

Mr. Darryl Colvin

Joint Program Executive Officer

Investing at the Speed of Need: Novel Technologies and Platforms to Accelerate Drug Development

Investing at the Speed of Need: Novel Technologies and Platforms to Accelerate Drug Development

Platforms as A New DoD Paradigm

Mr. Bruce Goodwin

Joint Project Lead for CBRND Enabling Biotechnologies

Investing at the Speed of Need: Novel Technologies and Platforms to Accelerate Drug Development

Generative Unconstrained Intelligent Drug Engineering (GUIDE) Platform

Mr. Bruce Goodwin

Joint Project Lead for CBRND Enabling Biotechnologies

Investing at the Speed of Need: Novel Technologies and Platforms to Accelerate Drug Development

Pandemic Prevention Platform (P3)

Dr. Amy Jenkins

Defense Advanced Research Projects Agency
Biological Technologies Office

Investing at the Speed of Need: Novel Technologies and Platforms to Accelerate Drug Development

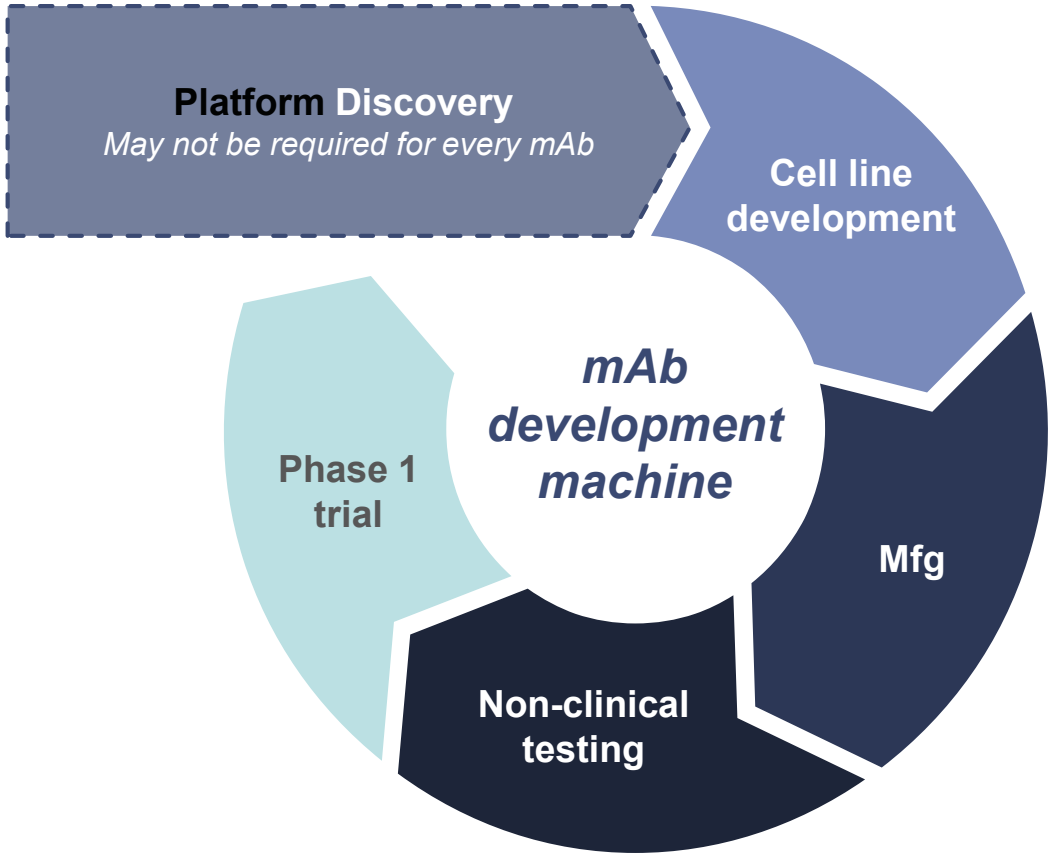
Accelerated Antibodies

Mr. Dave Bailey

Joint Project Lead for CBRND Enabling Biotechnologies

ACCELERATED ANTIBODIES

Interagency initiative between DOD and HHS to establish and exercise an industry ‘development machine’ to de-risk and accelerate monoclonal antibody delivery



Accelerated Antibody Development Machine

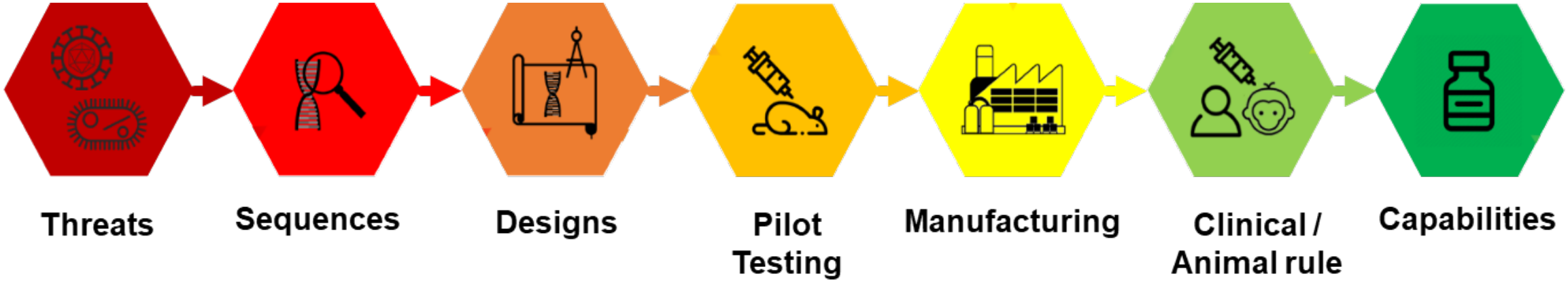
Investing at the Speed of Need: Novel Technologies and Platforms to Accelerate Drug Development

Vaccine Acceleration by Modular Progression (VAMP)

LTC Amanda Love

Joint Project Manager for CBRN Medical

VAMP MODULAR APPROACH



Modular contracting strategy with multiple options and go/no go decisions across the development pathway; allows for vaccine acceleration through full or interim capabilities, to increase readiness against a broad class of threats, as need and funding allows.

This strategy helps vaccines accelerate through full or interim capabilities

Investing at the Speed of Need: Novel Technologies and Platforms to Accelerate Drug Development

Question and Answer Session

Repurposing and Redirecting: An Alternate Approach to Accelerating Medical Countermeasures

Repurposing and Redirecting: An Alternate Approach to Accelerating Medical Countermeasures

A “Treat the Symptoms” Approach

LTC Barbara Cloutier

Defense Threat Reduction Agency
Joint Science and Technology Office

Repurposing and Redirecting: An Alternate Approach to Accelerating Medical Countermeasures

Impacts of Chemical Biological Defense Program Approach to Research, Development, and Acquisition of Medical Countermeasures and Test Products

Dr. Tony Cardile

Joint Project Manager for CBRN Medical

Repurposing and Redirecting: An Alternate Approach to Accelerating Medical Countermeasures

Discovery of Medical Countermeasures Against Novel Entities (DOMANE)

Dr. Dave Hone

Defense Threat Reduction Agency
Joint Science and Technology Office

Discovery of Medical Countermeasures Against New and Emerging threats (DOMANE)

MCM Discovery Cycle

MCM Planning Cycle

Adaptive Clinical Trials

MCM Regimen

MEDFIND/ MED3D

Candidate MCMs

Target ID

TARGFIND

Pathogenesis & Toxicity Forecasting

PATMOS

JPL-EB GUIDE
Scale up datasets and data curation

DATA

New & Emerging Threats

AMDST

Medical Planners

Joint Force

JPM Medical RAIDR
Data harvest and preemptive solution sets

AMDST: Agile MCM Decision Support Tool

Repurposing and Redirecting: An Alternate Approach to Accelerating Medical Countermeasures

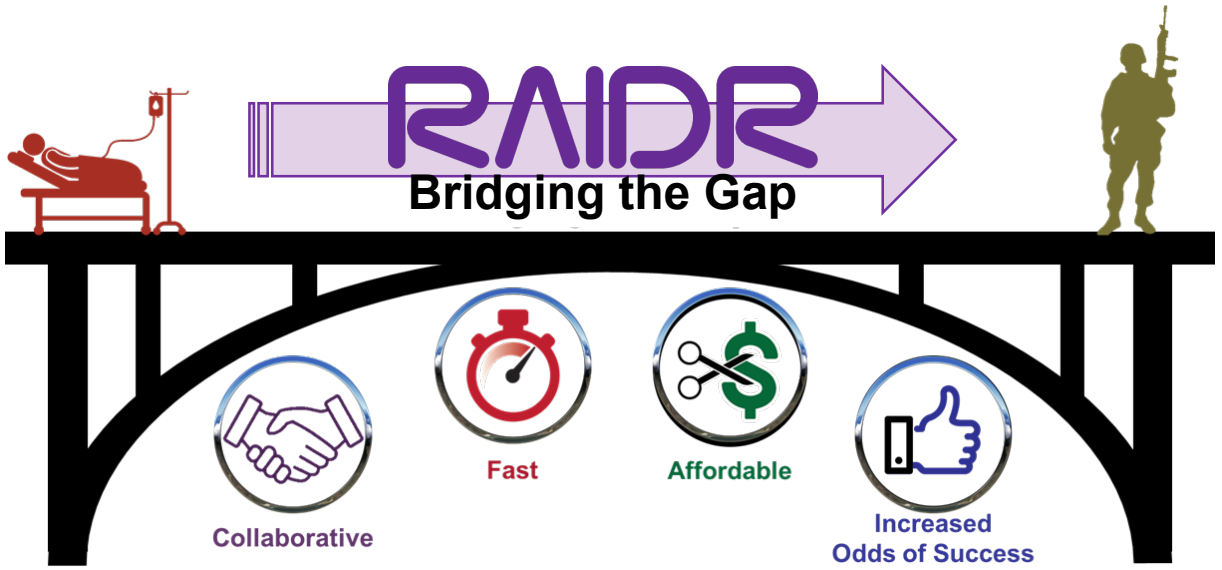
Rapid Acquisition and Investigation of Drugs for Repurposing (RAIDR)

COL Ryan Eckmeier

Joint Project Manager for CBRN Medical

REPURPOSING MEDICAL COUNTERMEASURES FOR CBRN DEFENSE

- Leverages investments and knowledge gained in conventional medical countermeasure development
- Fast and affordable way to deliver interim capabilities for known, potential, and unknown emerging threats
  - Collaborative with inter/intra-agency partners, academia, and industry
  - Proven during COVID-19 response
  - Leverages established safety and manufacturing
  - Bridges the gap until complete capabilities are in place



Repurposing and Redirecting: An Alternate Approach to Accelerating Medical Countermeasures

Question and Answer Session

How to Work with DoD

How to Work with DoD

Recent Success Using Non-traditional Approaches and Methods for Working with DoD

Ms. Nicole Kilgore

Deputy Joint Program Executive Officer

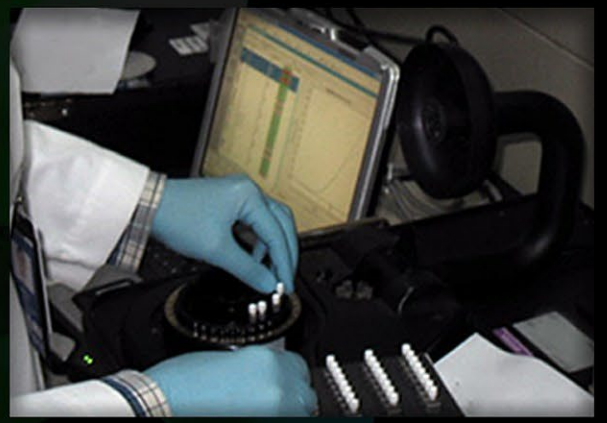
How to Work with DoD

Other Transaction Authority – Medical CBRN Defense (MCDC) Consortium

Mr. Lee Hess

JPEO-CBRND

SPECTRUM OF MEDICAL COUNTERMEASURES



PREVENTION

Prophylaxis sustains the force

DIAGNOSIS

Diagnostic identifies threats to treat

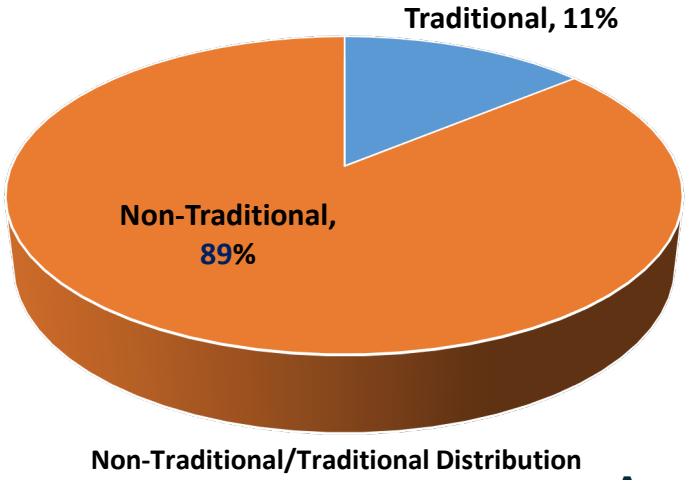
TREATMENT

Therapeutic saves lives

KEY OTA FEATURES

- OTAs have the following key features that enhance both the contractor and Government experience:
  - Open Communications: Government requiring office and Consortium Members are free to discuss any project attributes including cost, schedule and performance, new ideas/approaches, forecasts, etc.
    - No need to formalize discussions
    - No need to distribute discussion information
    - Exceptions:
      - Cannot discuss proprietary information of another contractor
      - Discussions are closed during evaluation periods
  - “Commercial Like” financing and payment terms
  - Follow-on Production (successful completion or unanticipated favorable results)
  - Negotiable IP and data rights
  - Flexible - (T&C, agreement types, evaluation process, success metrics, deliverables)
  - Streamlined – (EWP w/ROM vice formal proposal)
  - Basket
  - FAR DOES NOT APPLY

MCDC OTA



Non-Traditional/Traditional Distribution

- **FY 16**, 17 RPP (5 Projects), 9 Awards, 0 Basket; FY 16-17 Basket Pulls - 1
- FY 18 RPP (11 Projects), 23 Awards, 14 Basket; FY 18 Basket Pulls - 10
- FY 19 RPP (12 Projects), 16 Awards, 17 Basket, FY 19 Basket Pull - 4
- FY 20 RPP (17 projects), 23 Awards, 21 Basket, FY 20 Basket Pull - 1
- FY 21 RPP (6 Projects), 7 Awards, 7 Basket, FY 21 Basket Pull – 0
- FY 22 RPP (10 Projects), 1 Awards, 8 Basket; FY 22 Basket Pulls - 0

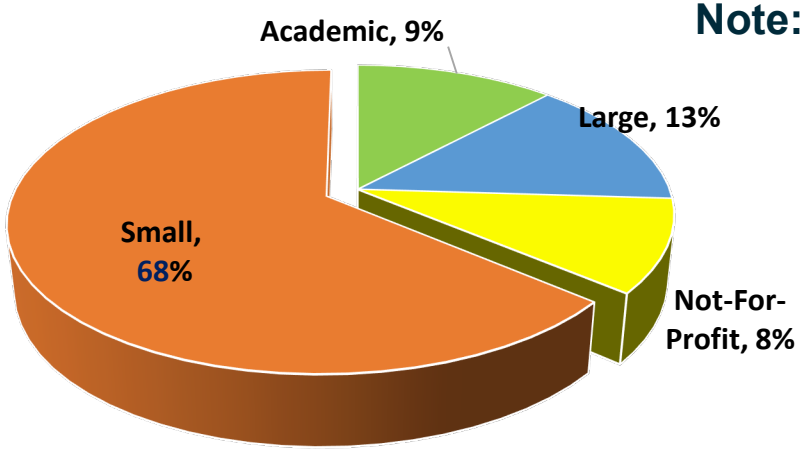
307 Members

- Awarded Member Ceiling - $8,728,577,171
- Funded To Date - $7,907,917,272
- Paid to Performer - $5,150,749,013

Total Ceiling Cost (w/CMF Fee) $8,778,119,266

Disbursed (Inc CMF C&F) $5,356,349,640

Note: All totals include OWS awards



Total Awarded Projects: 79
Active Funded Projects: 69

HOW TO JOIN THE MCDC OR CWMD CONSORTIUM

- Visit: www.medcbrn.org or www.cwmdconsortium.org
- Complete and sign the Membership Application
  - Review and sign the Articles of Collaboration
  - Provide DD2345 Certification Number
    - Military Critical Technical Data Agreement (access to unclassified technical data)
    - Instructions available at www.medcbrn.org or www.cwmdconsortium.org
  - If operating under Foreign Ownership, Control or Influence (FOCI)
    - DSS-approved mitigation plan OR signed Export Compliance Acknowledgement Form
  - Membership limited to US firms/entities or US-based affiliates of foreign firms/entities
- Send to MCDC@ati.org or CWMD@ati.org
- For all inquiries contact Mike Stebbins
  - mike.stebbins@ati.org
  - 843-760-4094

Countering Weapons of Mass Destruction CONSORTIUM

MEDICAL CBRN DEFENSE CONSORTIUM

Prevent Diagnose Treat

MCDC

CONTACT

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Mr. Lee Hess

OTA Program Manager
240-344-0462
lee.a.hess.civ@army.mil

Public Affairs Office: 410-436-9000
Traditional Contracting: Alan Burket | 443-655-8608

Website: www.jpeocbrnd.osd.mil
Social Media: @JPEOCBRND

BACKUPS

GETTING TO AGILE

DIVERSE ACQUISITION TOOLS AND THE PEOPLE WHO KNOW HOW TO USE THEM

Awards outside of MATOCs and OTAs

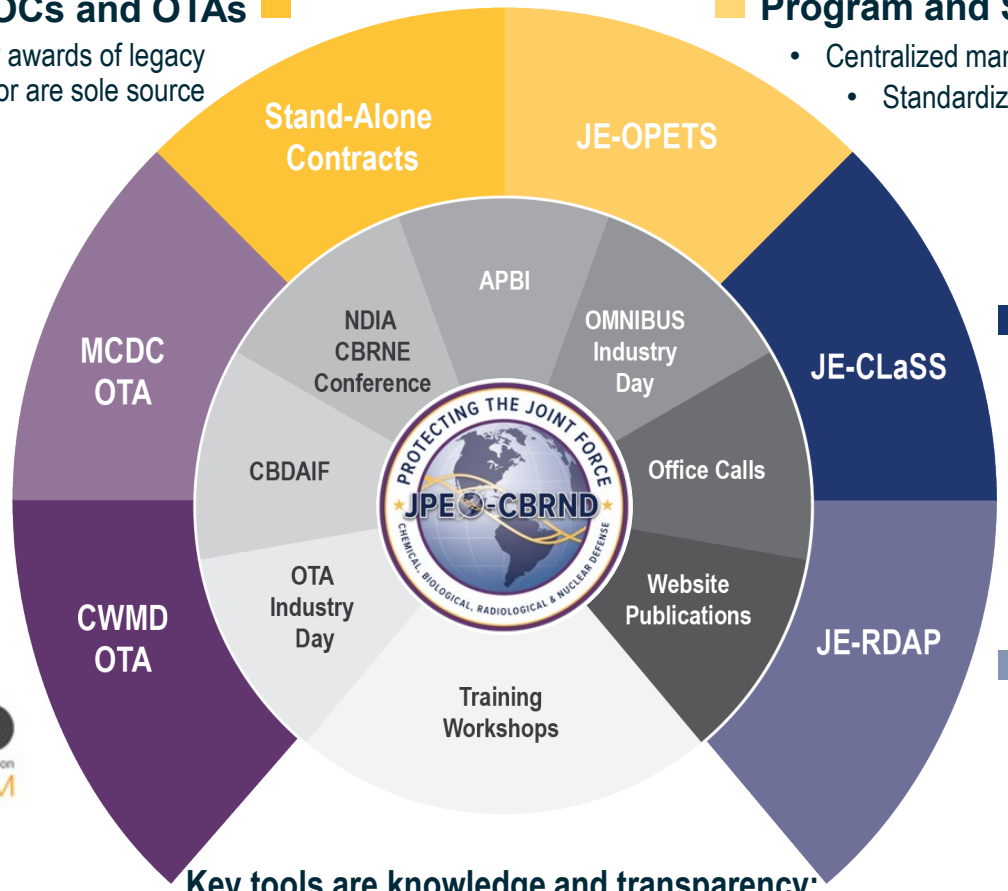
- Primarily awards of legacy components or are sole source

Program and SETA support MATOC

- Centralized management and support
- Standardized processes and procedures

Medical and CWMD OTAs:

- Inspires technical innovation and expedited awards
- Expands industrial base to "Non-Traditional" Defense contractors
- Encourages partnerships amongst both Industry and Government entities



Enterprise-wide logistics and sustainment MATOC

Systems, equipment, and capabilities MATOC

- Pre-MDD through development, production, procurement, fielding and initial sustainment

MCDC Medical CBRN Defense Consortium
Prevent | Diagnose | Treat

CWMD Countering Weapons of Mass Destruction CONSORTIUM

Key tools are knowledge and transparency:
Multiple venues for Government and Industry interaction. Multiple training opportunities for JPEO staff, other partners and industry. One goal, equipping people to know how to use the right tool for the job.

MCDC OTA PARTNERSHIP STRUCTURE

MCDC OTA PROGRAM MANAGEMENT OFFICE
(CONTRACT MANAGEMENT OFFICE (CMO))

PROJECT SPONSORS

AGREEMENTS OFFICER
Army Contracting Command – New Jersey

CONSORTIUM MANAGEMENT FIRM

PROJECT HOLDERS

MCDC
Medical CBRN Defense Consortium
Prevent | Diagnose | Treat

CWMD OTA PARTNERSHIP STRUCTURE

CWMD OTA PROGRAM MANAGEMENT OFFICE
(CONTRACT MANAGEMENT OFFICE (CMO))

CWMD
Countering Weapons of Mass Destruction
CONSORTIUM

PROJECT SPONSORS

AGREEMENTS OFFICER
Army Contracting Command – New Jersey

CONSORTIUM MANAGEMENT FIRM
ATI
ADVANCED TECHNOLOGY INTERNATIONAL

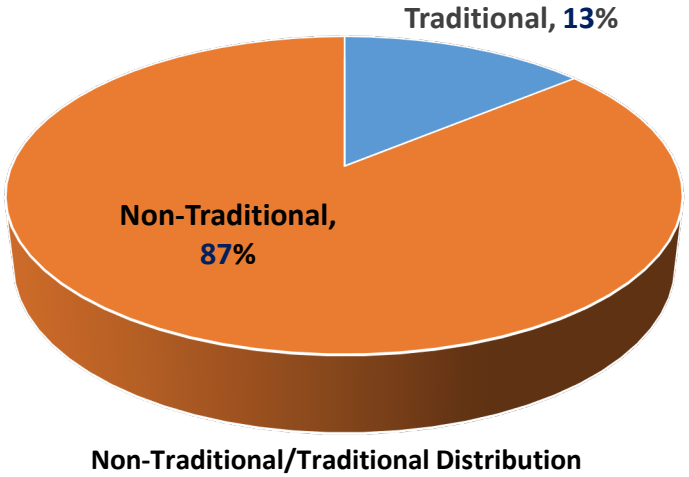
CWMD
Countering Weapons of Mass Destruction
CONSORTIUM

PROJECT HOLDERS
SMALL
LARGE
TRADITIONAL
ACADEMIC
NON-TRADITIONAL
NOT-FOR-PROFIT

OBJECTIVE AREAS

- CBRNE counter-proliferation, nonproliferation, and defense equipment
- Installation and force protection
- Command, control, communications, computers, intelligence, surveillance, and reconnaissance (C4ISR) systems for WMD detection, localization, identification, and tracking and CBRNE response operations
- Technologies that support the find, fix, finish, exploit, analyze, and disseminate (F3EAD) process
- Preparing for and combatting improvised threats and the improvised explosive device network
- WMD precursor, agent, and device defeat or neutralization
- Ensuring nuclear deterrence
- Manned and unmanned platforms capable of supporting CWMD operations
- Technologies that enhance the effectiveness of forces that are tasked to conduct CWMD operations
- Other operations related to the CWMD mission

CWMD OTA

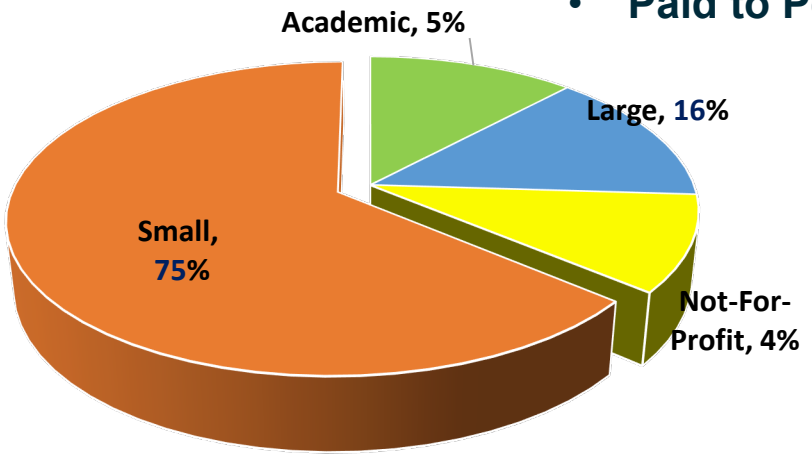


Non-Traditional/Traditional Distribution

- FY 18 RPP (34 Projects), 22 Awards, 0 Basket; FY 18 Basket Pulls - 1 (Expired)
- FY 19 RPP (37 Projects), 51 Awards, 16 Basket, FY 19 Basket Pull - 5
- FY 20 RPP (42 projects), 29 Awards, 80 Basket, FY 20 Basket Pull - 2
- FY 21 RPP (19 Projects), 52 Awards, 40 Basket, FY 21 Basket Pull - 6
- FY 22 RPP (06 Projects), 12 Awards, 03 Basket, FY22 Basket Pull - 5

398 Members

- Awarded Member Ceiling - $1,066,645,397 Total Ceiling Cost (w/CMF Fee) $1,077,038,549
- Funded To Date - $838,297,945 Disbursed (Inc CMF C&F) $846,364,106
- Paid to Performer - $726,608,192



Total Awarded Projects 166
Active Funded Projects 101

KEY PROGRAM ROLES & RESPONSIBILITIES

YOU ARE NOT ALONE!

- **Program Management Office (JPEO-CBRND)**
  - Execute program strategy and marketing
  - Manage operations
    - Monitor Cost, Schedule, and Technical Performance
  - Provide acquisition support and expertise
    - Contractual (1101/1102 series)
    - Technical (0800 and 1300 series)
  - Maximize customer service and support
    - Training
- **Agreements Officer (ACC-NJ)**
  - Review and approve requirements
  - Review and approve evaluations of white papers/proposals
  - Prepare Determination and Findings -- award approval
  - Facilitation of legal and SCO reviews
    - Perform post-award administration
- **Consortium Management Firm (ATI)**
  - Manage consortium
  - Maintain on-line process for bid management
  - Conduct pricing certifications
  - Complete compliance checks
  - Award sub-agreements
  - Monitor post-award performance against technical milestones
  - Manage payment process
- **Agreements Officer's Representative**
- **Write requirements with program team**
- **Conduct evaluations**
- **Draft selection memoranda**
- **Monitor cost, schedule, and technical performance**
- **Approve deliverables**
- **Approve payments, etc.**
- **Communicate any changes to PMO/AO**

How to Work with DoD

JPEO-CBRND Enterprise Technology Tool (JETT) Overview

Mr. Josh Israel

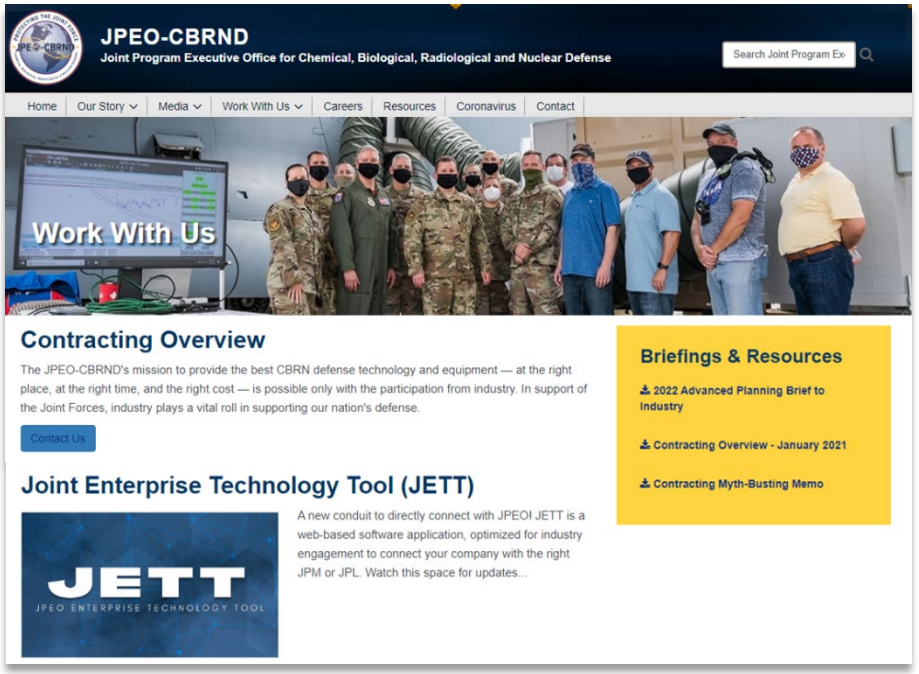
JPEO-CBRND

JPEO ENTERPRISE TECHNOLOGY TOOL (JETT)

COMING SOON: A new conduit to connect directly with the JPEO!

- JETT is a web-based software application that facilitates industry engagement
- 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



Closing Comments

CBDST

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Empowering the Warfighter: Resilience Through Innovation

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JULY 8, 2022

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