

# JPEO-CBRND 🚴 😣 🕸 🕸

# JPL CBRND ENABLING **BIOTECHNOLOGIES – MCM CAPABILITIES TO THE NASEM**

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PROGRAMS EXECUTED ON BEHALF OF THE CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM

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

PEOPLE

ADAPT to the Joint Force's needs

NTEGRATE layered CBRN defense

DELIVER on our commitments

**DISTRIBUTION STATEMENT: A.** Approved for public release. Distribution is unlimited

UNITY

of command/effort

Ρινοτ to incremental capability

**CLASSFICATION Marking Goes Here** 

# **ENABLING BIOTECHNOLOGIES** FROM INFORMATION TO INJECTION



## **Characterize threat**



Sequencing and analytics to understand threat

#### Accelerate MCM development



Portfolio of platform technologies to enable rapid MCM development against range of threats

# Maintain network to manufacture MCMs



Network of DoD priority access manufacturers for rapid MCM production

#### Support clinical trials



Infrastructure and portable technologies to enable agile and remote clinical trials

Ensure forward-looking technical posture by continuously scanning the landscape

# **ADVANCED TECHNOLOGY PLATFORMS (ATP)**



Proven Technology







- Improves speed of medical response
- Ensures platforms produce valid, effective MCMs
- Pre-positions platforms at facilities within the ADMC Network



# ACCELERATED ANTIBODIES PROTOTYPES AND DELIVERABLES



In going MCM development		Target	Performer/Sponsor	Phase of development
	1	Plague	JUST-Evotec	IND enabling nonclinical and CMC
	2	Nipah/Hendra	Марр Віо	IND enabling nonclinical and CMC
	3	Rift Valley	IDBIO	IND enabling nonclinical and CMC
	4	Pan-Ortho <sup>1</sup>	JUST-Evotec	Lead Candidate Selected (all 4); Process Development

### For each mAb based MCM the accelerated antibody initiative will deliver...

- Completed Phase 1 Clinical Trial
- Large Scale Manufacturing Process in place
- > 5,000-10,000 cGMP phase 2 compliant ready doses
- Regulatory Plan for Emergency Use (EUA or EA)
- Near instant onset of protection with intended 6 months of duration
- > Ability to proceed to advanced development and licensure based on desire and availability of funding



# CONTACT

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