



# Medical Research and Technology: Chronic Effects of Blast-Related TBI

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*UNCLASSIFIED*



# Medical Research & Technology (R&T)



## USAMRMC Responds to Threats to Service Member Health and Performance





# USAMRMC Mission and Vision



## MISSION



Responsively and responsibly create, develop, deliver, and sustain medical capabilities for the Warfighter

## VISION



Lead the advancement of military medicine



# We Save Lives



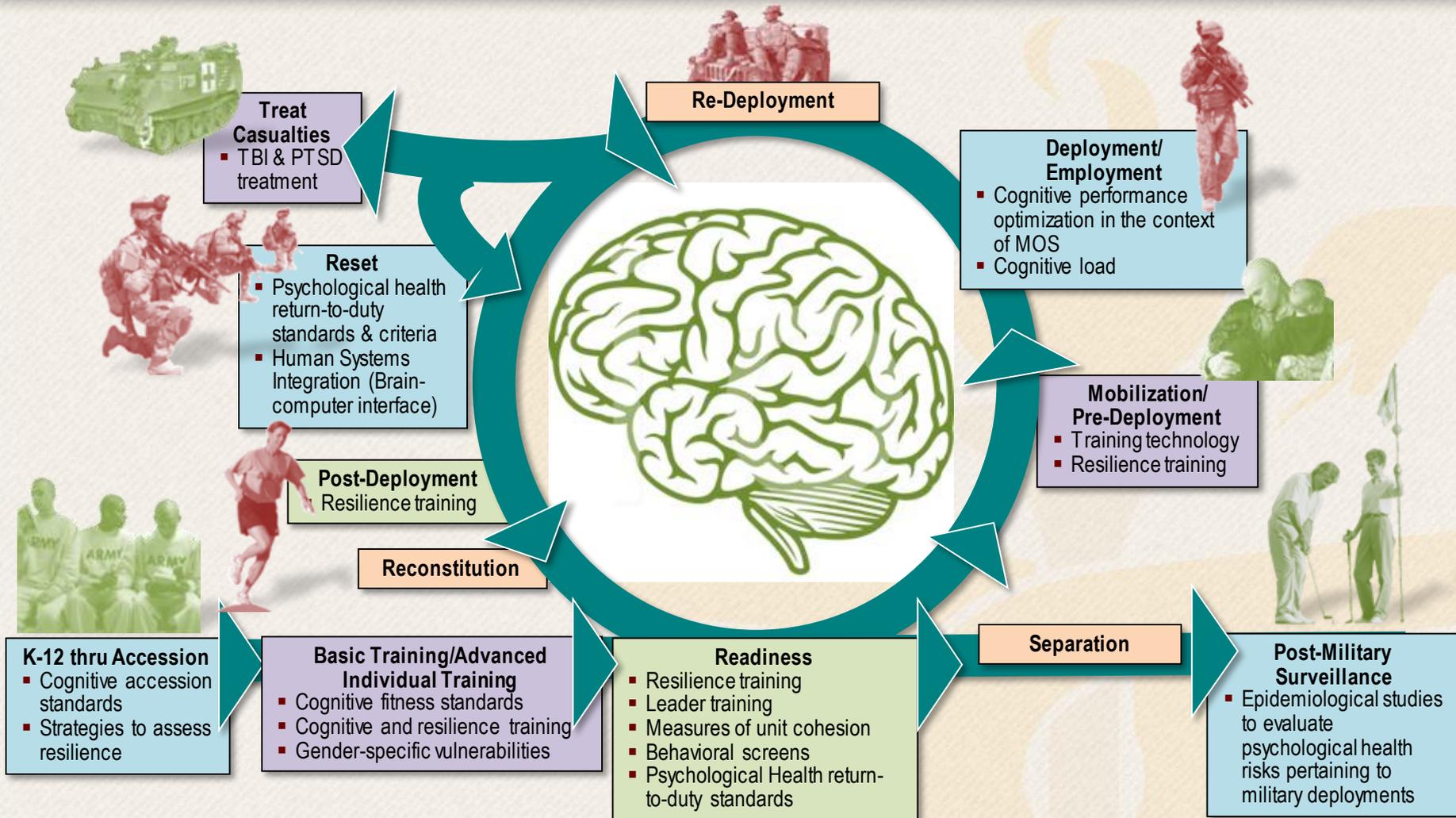
## Focused on materiel and knowledge-based medical solutions to:

- **Increase warfighter fitness, health, protection, and resilience**
- **Improve downrange health delivery**
- **Enhance recovery, rehabilitation or reintegration**





# Brain Health Across the Military Lifecycle





# Collaborative by Nature and Necessity

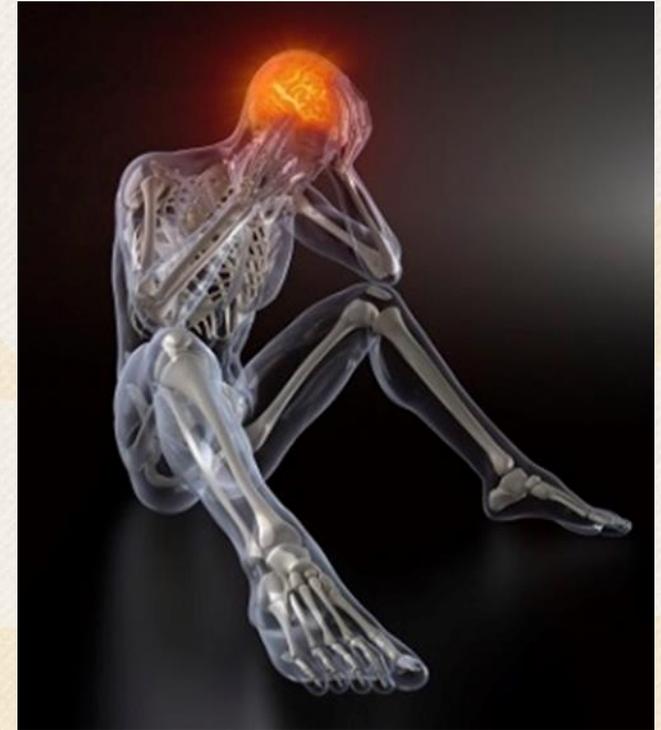




# State-of-the-Science Meeting: A Paradigm for Cross-Disciplinary Problem Solving



- The mission of the DoD Blast Injury Research Program Coordinating Office is to coordinate all DoD blast injury research on behalf of the Commander, U.S. Army Medical Command (Surgeon General for the Army)
- The State-of-the-Science meeting is an example of this coordination:
  - Assembles a diverse multi-disciplinary community of experts from the DoD, other Federal agencies, academia, and industry to address a focused topic area of blast injury research
  - Overarching goal is to advance science and accelerate medical solutions for blast injuries by sharing knowledge, identifying gaps, and recommending future research directions
  - Format allows for robust exchange of ideas



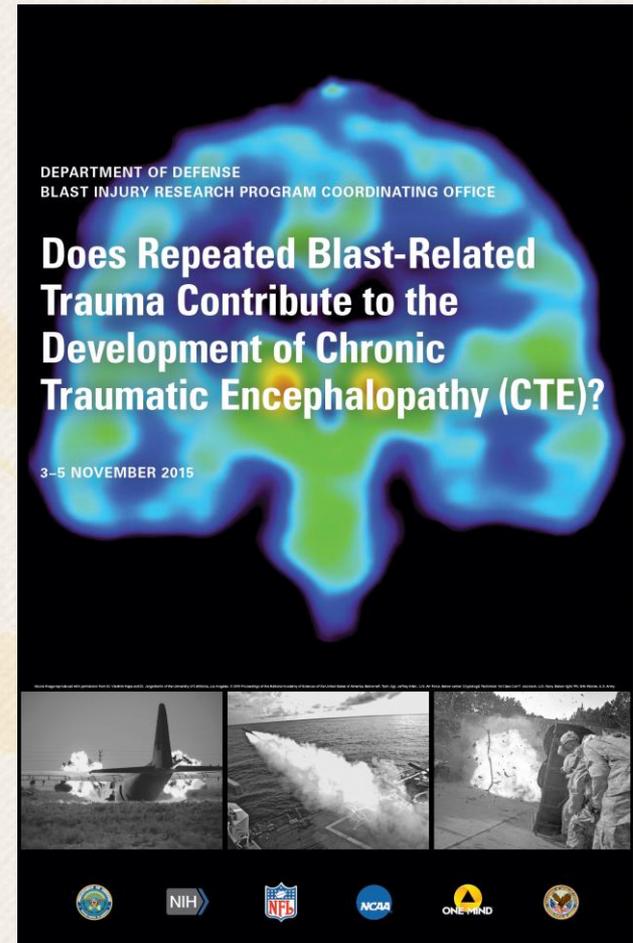
Blast-related TBI is a complex multifactorial injury, requiring a multi-disciplinary approach



# Meeting Outcomes



- This meeting will guide the development/identification of:
  - Tools such as biomarkers, both fluid and imaging, that will detect CTE early
  - Mechanisms underlying the spatiotemporal development of CTE resulting from repeated blast exposure
  - An integrated neuropathological and neurobehavioral profile of CTE
  - Risk factors for CTE
  - Effective prevention, mitigation, and treatment strategies for CTE





# Lest we forget...



Thank you for helping us protect and treat our Nation's Service Members, who selflessly give on a daily basis.

