





Futures and Concepts Center

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# Next Generation Combat Vehicle





EM-50 Urban Assault Vehicle



## EM-50 Urban Assault Vehicle





Mobile

Survivable



Troop Transport



Lethal

It even closed with,...



...engaged, and destroyed...



...an enemy in close combat







And easy to learn and operate by even the most "challenged" of soldiers



...who may one day rise to become a General Officer.







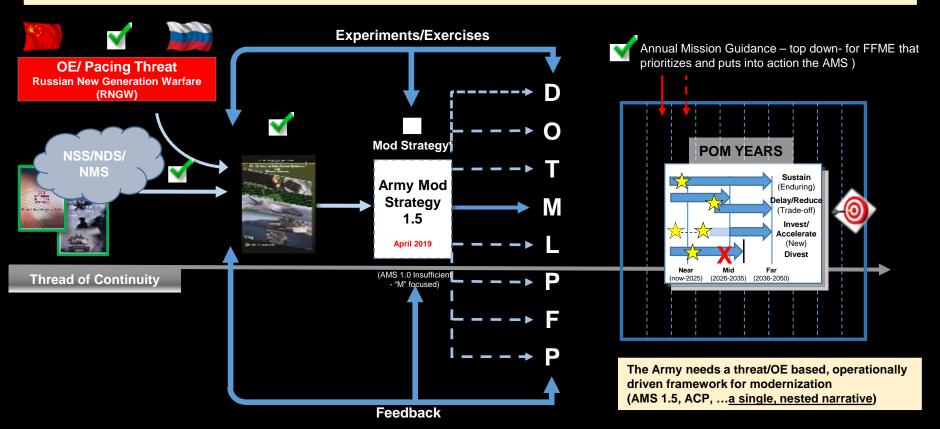


### **Modernization Framework**



"The Army of 2028 will be ready to deploy, fight and win decisively against any adversary, anytime and anywhere, in a joint, combined, multi-domain, high-intensity conflict, while simultaneously deterring others and maintaining its ability to conduct irregular warfare"

- SEC Mark Esper, GEN Mark Milley



\*Note: AMS 1.5 must address a comprehensive DOTMLPF-P modernization plan; the current AMS is "M" focused while CAC has sought to maintain doctrinal change commensurate with capability.

Ideally, the AMS becomes an Army guidance document driving the entire enterprise across the ACOMs...potentially serving as the modernization chapter to the ACP (LOE #2 of the Army Strategy)



# Concepts Drive Change







2018

Destitution destructed.
Appeared impublic release distribution calimics.



## **Operational Environment**



- ☐ Identifies four interrelated trends that shape the future Operational Environment
  - Contested in all domains
  - Increasingly lethal and hyperactive battlefield
  - Leverage Competition Space
  - ➤ Multiple Layers of Standoff
- ☐ Challenged deterrence





### Central Idea



Army forces, as an element of the Joint Force, conduct Multi-Domain Operations to prevail in <u>competition</u>; when necessary, Army forces <u>penetrate</u> and <u>dis-integrate</u> enemy anti-access and area denial systems and <u>exploit</u> the resultant freedom of maneuver to achieve strategic objectives (win) and force a <u>return to competition</u> on favorable terms.

#### **Current Force Posture Options**

Do nothing and concede competitor actions and readjust strategic objectives

Win a protracted conflict by regaining the operational initiative and defeating enemy forces

#### MDO Capable Force 2028/2035 Options

- Do nothing and concede competitor actions and readjust strategic objectives
- Expand the competitive space on favorable terms to deter enemy aggression (preferred method)
- Respond quickly to deny a fait accompli attack and achieve an operational position of advantage
- Win a protracted conflict by regaining the operational initiative and defeating enemy forces



## Tenets of Multi-Domain Operations

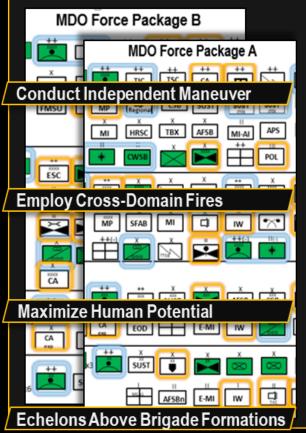


#### **Calibrated Force Posture**

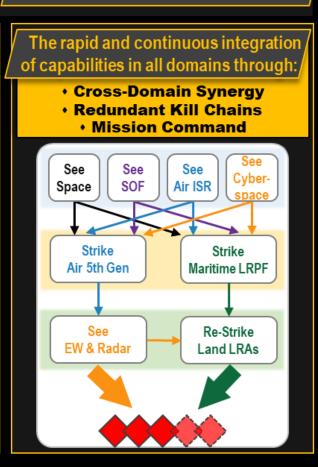
#### **Multi-Domain Formations**

#### Convergence





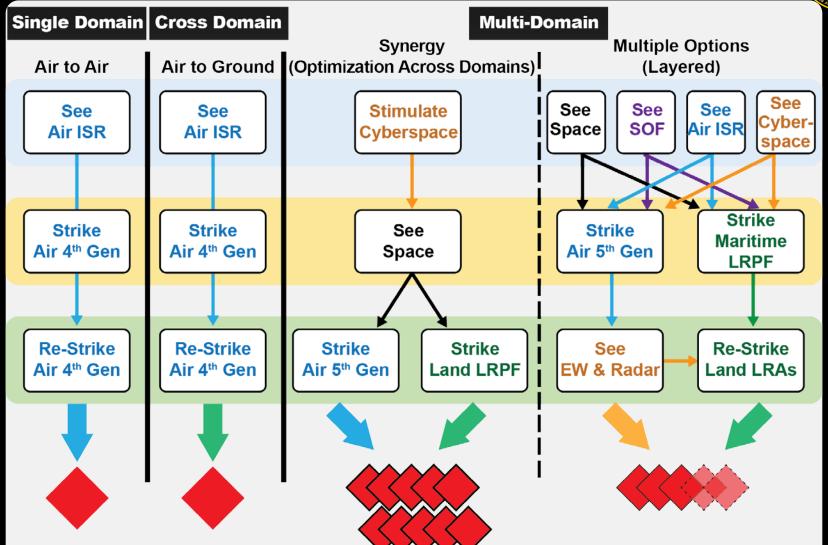
lis-Integrate





## Convergence





Multi-domain operations today rely on episodic synchronization ... executing capabilities after days and weeks of synchronization ... in future operations against a peer threat it will require rapid and continuous integration ... integrating capabilities within hours

**Dis-Integrate** (



# Technology: Missing the Mark







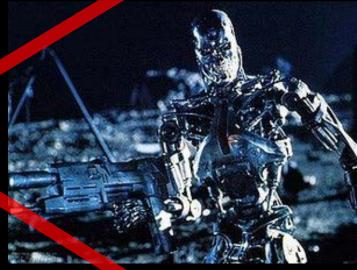


# What We Are Not Trying To Do...





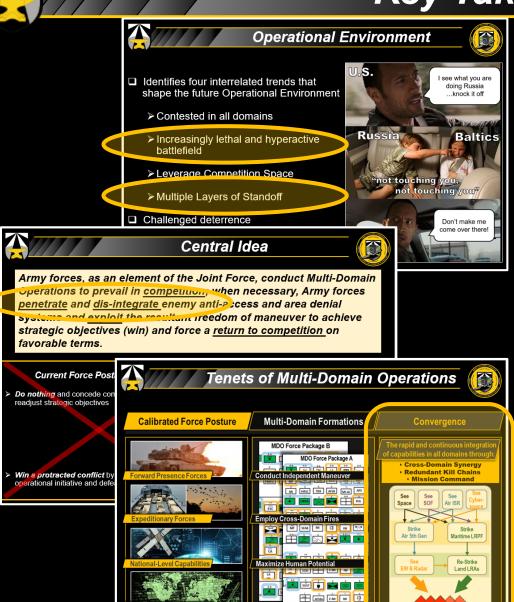






## Key Take-Aways





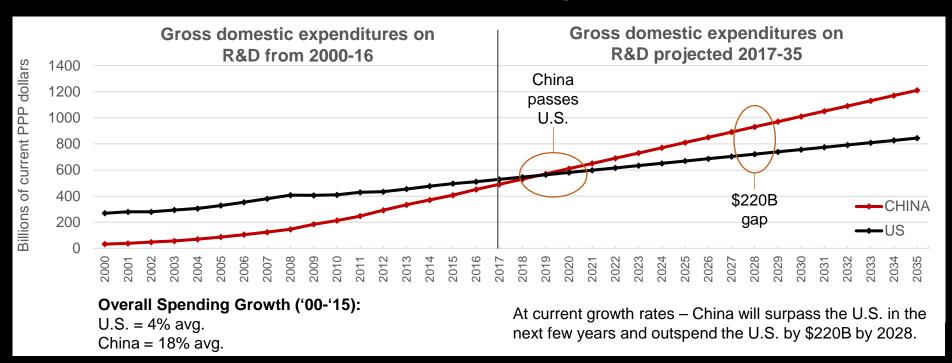
- Lethality
- Stand-Off
- Penetration
- Convergence



# US-China R&D Expenditures



## The U.S. may lead in basic research but China is slipping past us in applications.



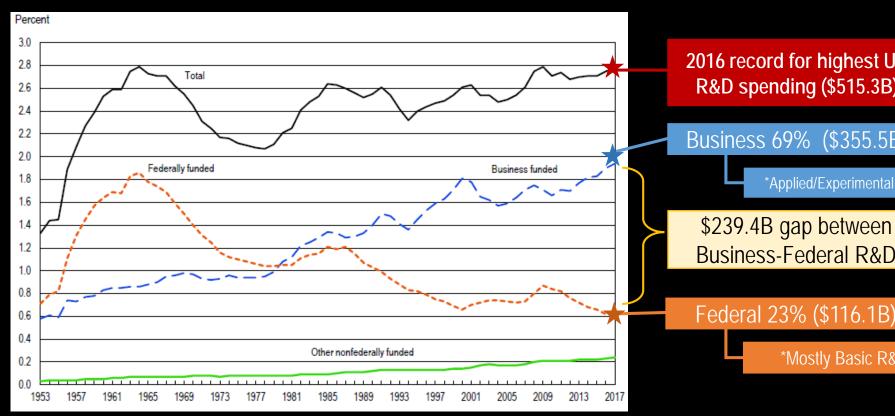
"China's plans for technology innovation comprise 'a top-down, government-driven agenda that provides a roadmap for strategic collaboration between industry, academia, and civil society' ... and the U.S. should reflect on the Chinese government's recognition of innovation as a driver of economic growth."

> - Elise Stefanik (R-NY) House Armed Services Subcommittee



## US R&D spending by sector





2016 record for highest US **R&D** spending (\$515.3B)

Business 69% (\$355.5B)

\*Applied/Experimental R&D

Business-Federal R&D

Federal 23% (\$116.1B)

\*Mostly Basic R&D

Keeping pace and achieving overmatch of our adversaries requires a new way of modernizing our forces...and that way requires closer partnerships with industry to enable faster adoption of new technologies and rapid innovation.



## Holyfield-Tyson





Conflict like Holyfield

- Strategic reach
- Precision
- Technical
- Agile

Compete like Tyson

- Closes distance
- Punching power
- Aggressive
- Feared





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