



ARMY AVIATION

DECISIVE IN LAND WARFARE

**2017 AAAA Cribbins Aviation
Support Symposium**

Aviation Branch Update



COL Tom O'Connor
*Deputy Commander
US Army Aviation Center of Excellence*



Maintaining Shared Understanding and Trust with Commanders and Soldiers on the Ground



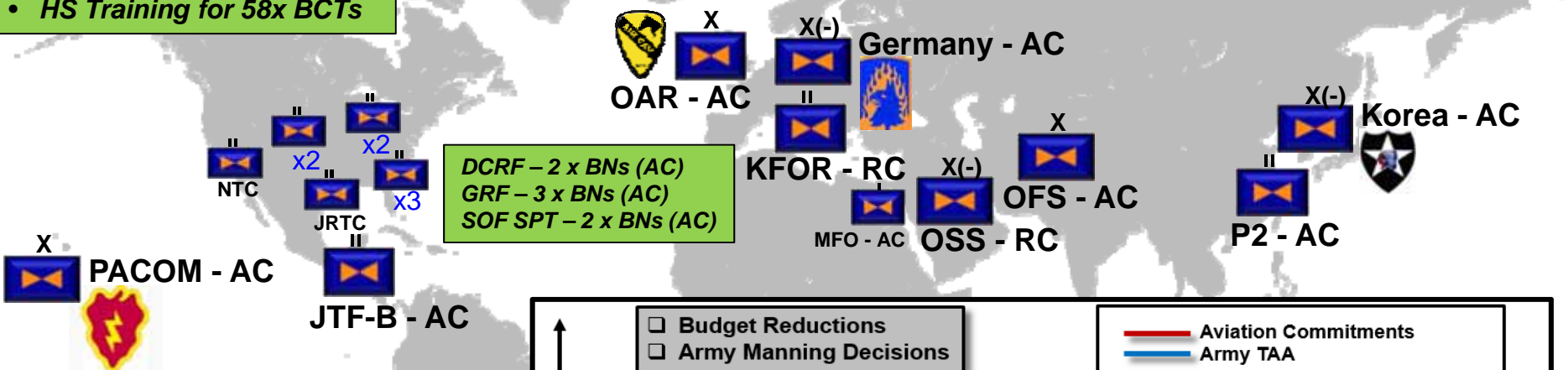
ARMY AVIATION

DECISIVE IN LAND WARFARE

Aviation Commitments

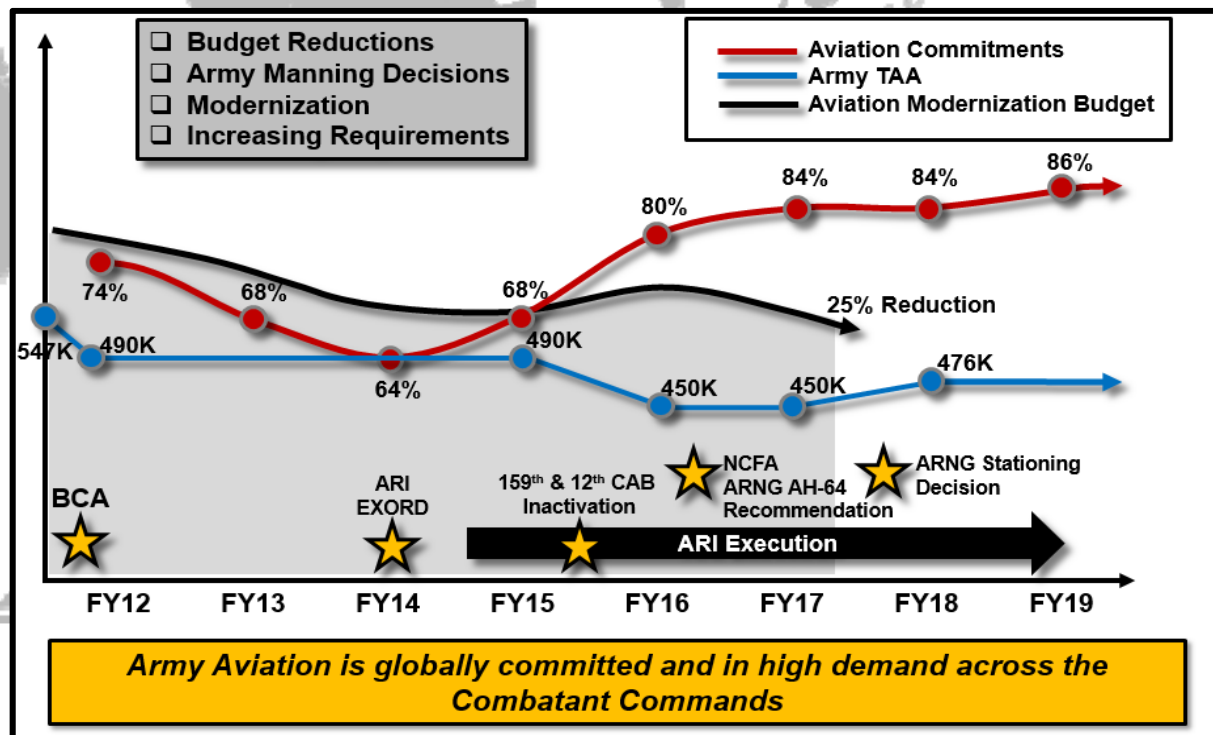
Modernization & HS Training

- 5 BNs x AC (Fieldings)
- HS Training for 58x BCTs



CTC Requirements (FY18)

- NTC x 8 BN TFs
- JRTC x 9 BN TFs



Army Aviation is globally committed and in high demand across the Combatant Commands



- **Challenges to Maintaining Readiness**
- **Maintenance Leader Development Initiatives**
- **Doctrine Updates**
 - **ATP 3-04.7 Army Aviation Maintenance**
 - **TC 3-04.21 Commander's Aviation Maintenance Training Program**
- **Army Aviation Enterprise Sustainment Strategy**
 - **Reduce Logistics Footprints**
 - **Reduce Soldier Burden**
 - **Improved Operational Availability**
 - **Expeditionary Aviation Force**
 - **Decreased Operation and Sustainment and Life Cycle Costs**





ARMY AVIATION

DECISIVE IN LAND WARFARE

Multi-Domain Battle Achieving Cross-Domain Synergy

Warfighting Challenges

1. Develop Situational Understanding.

Army Aviation Core Competencies

- 2. Provide accurate and timely Combat Information about the Enemy, Terrain & Local Populations.
- 6. Provide Reaction Time and Maneuver Space.
- 8. Destroy, Defeat or Disrupt Enemy Forces.
- 10. Air Assault Ground Maneuver Forces.
- 12. Air Move Personnel, Equipment and Supplies.
- 14. Evacuate Wounded or Recover Isolated Personnel.
- 16. Enable Msn Cmd over Extended Ranges and Complex Terrain.



Mountain Operations



Dense Urban Terrain

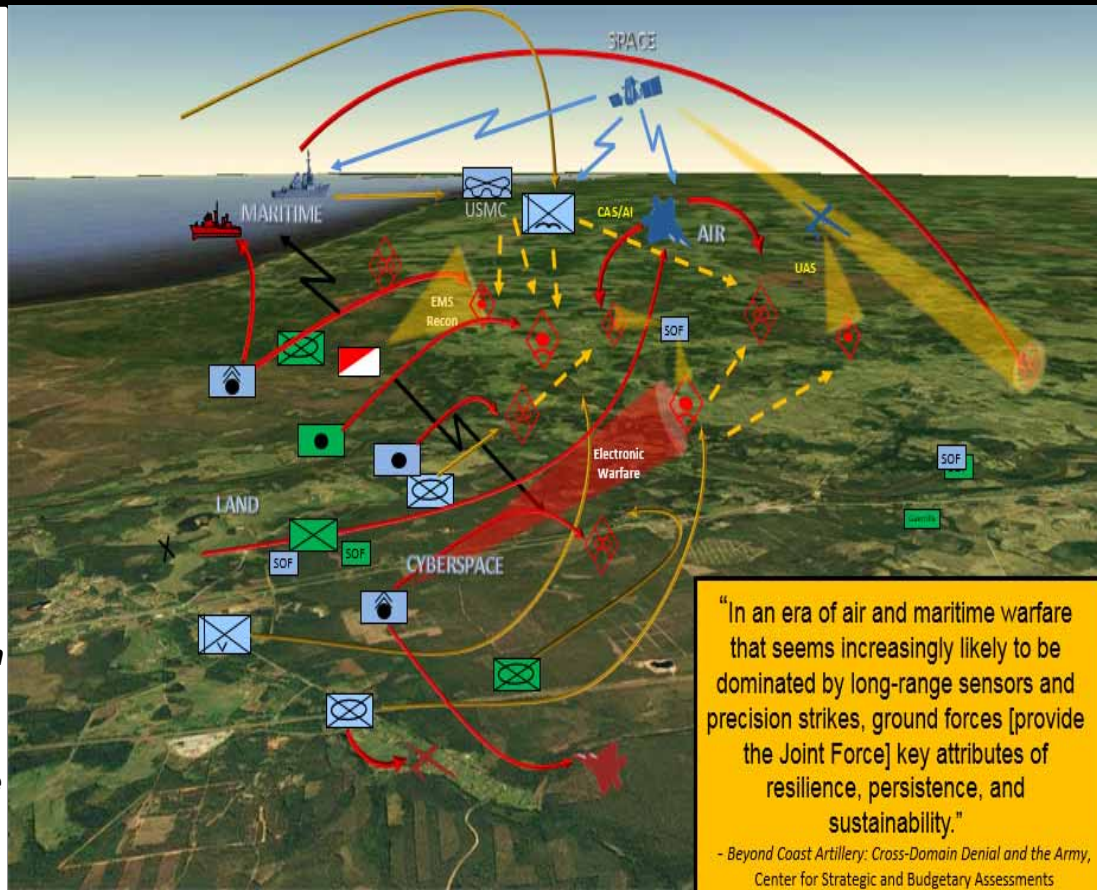


DVE and Desert Ops



Maritime/A2AD Ops

- ✓ Operate over a Wide Area.
- ✓ Continuous R&S.
- ✓ Develop SA through Action.
- ✓ Achieve Surprise through Maneuver.
- ✓ Strike the Enemy from Multiple Directions.
- ✓ Dictate the Terms of Operations.
- ✓ Use Mobility to Gain a Position of Advantage.
- ✓ Present the Enemy with Multiple Dilemmas.
- ✓ Combine Firepower and mobility to gain the Advantage and Overmatch the Enemy.



"In an era of air and maritime warfare that seems increasingly likely to be dominated by long-range sensors and precision strikes, ground forces [provide the Joint Force] key attributes of resilience, persistence, and sustainability."

- Beyond Coast Artillery: Cross-Domain Denial and the Army, Center for Strategic and Budgetary Assessments

Reach

Protection

Lethality

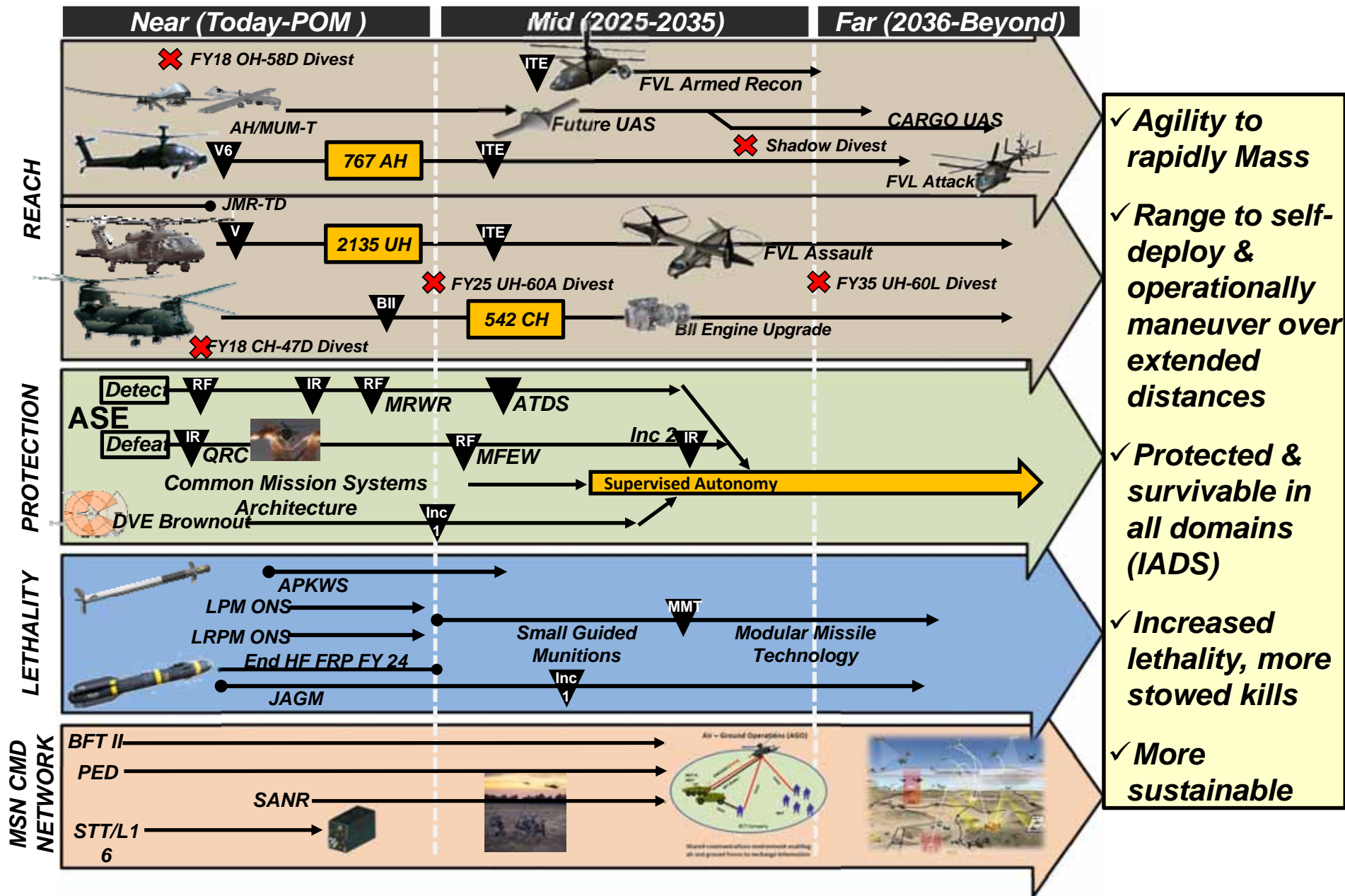


Maintaining Shared Understanding and Trust with Commanders and Soldiers on the Ground



ARMY AVIATION DECISIVE IN LAND WARFARE

Aviation Equipment Modernization Strategy





“However beautiful the strategy, you should occasionally look at the results.”

Sir Winston Churchill





- **Maximize Reach through increased speed, power, endurance, and agility to fly and fight in all visual environments to deny sanctuary to our adversaries**
- **Expeditionary as routine-global reach (Strategic/Operational depth)**
- **Reduce UAS dependence on runways**
- **Reduce sustainment (fuel/equip/people) demands to minimize the log footprint**
- **Mitigate threats to aircraft for greater freedom of action**
- **Common, lighter, more lethal, precision munitions and more capable sensors**
- **Supervised Autonomy – selectable and sliding scale between AI and human autonomy dependent upon the mission and our situational awareness**
- **Common Mission System Architecture –mission packages that are more cost effective and efficient to install**



Do more with the same; require increased capability to meet current and future demands

Maintaining Shared Understanding and Trust with Commanders and Soldiers on the Ground



Near / 18 – 25

- **ITEP:** Increased power that provides the Reach, Protection, and Lethality for the CCDR. The last evolutionary development to bridge the gap to a revolutionary capability of FVL
- **ASE:** Advanced Threat Detection System, Common IR Countermeasure, and Modern Radar Warning Receiver mitigate threats to aircraft for greater freedom of action
- **CH-47F Block II:** Improved drivetrain and airframe restores 4,000lbs of payload and sets the stage for future capability insertions – not necessarily replacing all current F-models
- **Increased Lethality:** Long Range Missile + Lightweight Precision Munition (UAS); every target doesn't require a Hellfire

MID / 26 – 35

- **Lethality:** Scalable, tailorable, longer range munition options with longer range and more capable sensors and disruptive technologies; leverages Multi-function Electronic Warfare (MFEW) Air
- **Future UAS:** More survivable, agile, runway independent air vehicles teamed with scalable control interfaces that provides the commander with increased options for a broader missions
- **ASE + DVE + Autonomy:** the capability to fly and fight in all environments

FAR / 36 – 50

- **Continue FVL:** Field Armed Reconnaissance, Attack, Lift and Cargo variants – including supervised autonomy – to begin replacing legacy aircraft
- **Continue Future UAS:** Field variants optimized for missions and echelons

Aviation funding strategy preserves readiness today while accelerating FVL and other critical Reach, Protection and Lethality capabilities required to fight and win in the future OE

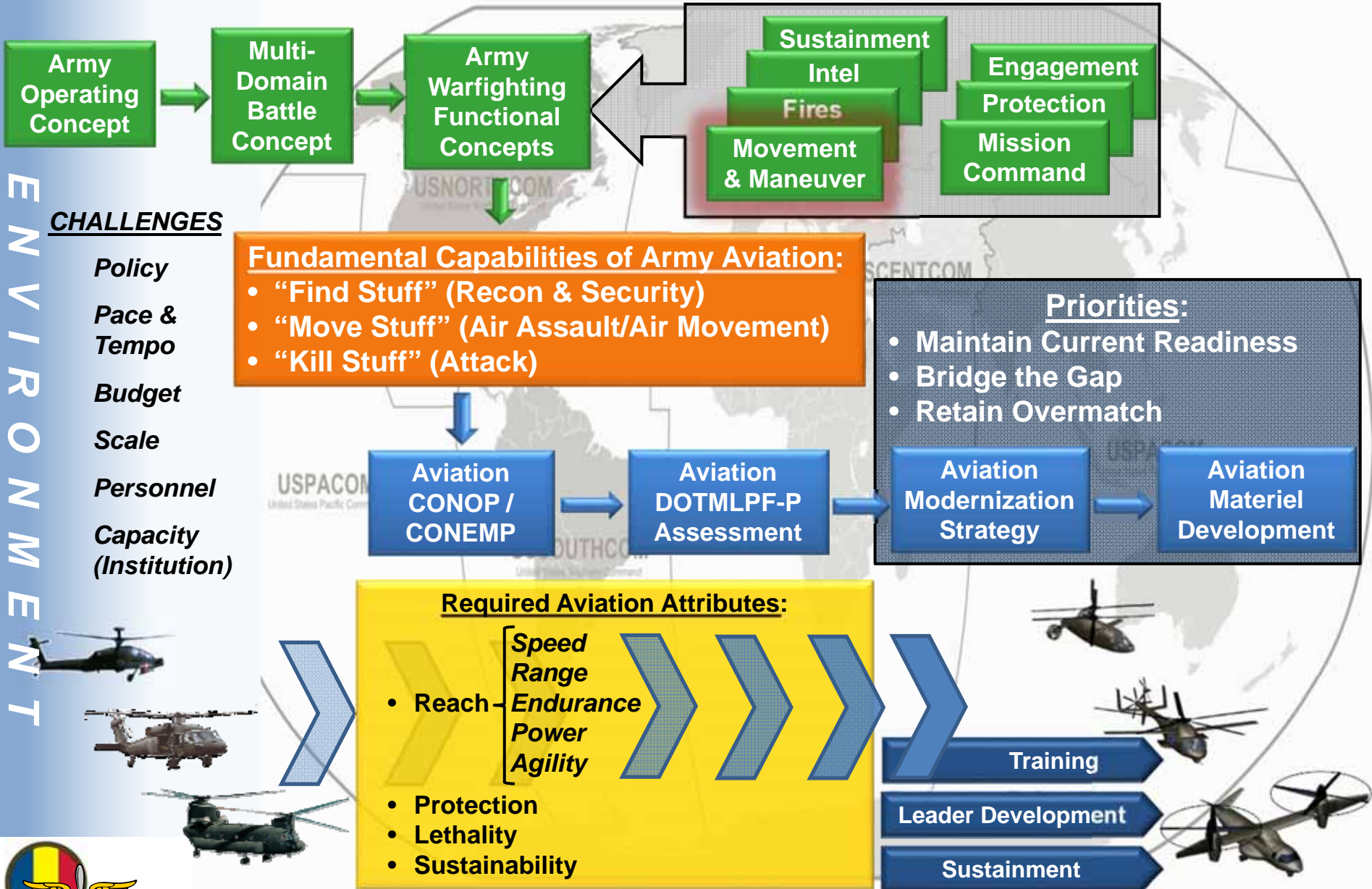




ARMY AVIATION

DECISIVE IN LAND WARFARE

Driving Aviation Modernization Requirements



Maintaining Shared Understanding and Trust with Commanders and Soldiers on the Ground