



U.S. ARMY COMBAT CAPABILITIES DEVELOPMENT COMMAND AVIATION & MISSILE CENTER

Overview Brief

DISTRIBUTION STATEMENT A.
Approved for public release;
distribution unlimited.



OUR MISSION

A large, sepia-toned background image showing military operations. It includes a helicopter, a missile being launched, and soldiers in the foreground. The scene is hazy and action-oriented.

Develop, integrate, demonstrate, and sustain aviation and missile systems capabilities to support modernization priorities and improve readiness.



OUR LEADERSHIP TEAM



Director
Mr. Jeffrey Langhout
(SES)



Chief of Staff
Mr. Steve Fisher



MILDEP
COL Eric Rannow

Scientific & Technical Positions (STs)

- Optical Sciences**
Dr. Henry Everitt
- Airvehicle Aerodynamics and Preliminary Design**
Dr. Mahendra Bhagwat
- Radio Frequency Sensors**
Dr. Brian Smith
- Protective Technologies**
Dr. Donna Joyce



Technology Development Directorate
Ms. Christi Dolbeer
(Acting)



Systems Readiness Directorate
Mr. Keith Darrow
(SES)



Software, Simulation, Systems Engineering and Integration Directorate
Dr. James Kirsch
(SES)



BY THE NUMBERS



11,940
FY21 Strength



2,982
Civilian

23
Military

~8,940
Contractor

FY20 Funding
\$4.3B

4%
Aviation S&T

5%
Missile S&T

65%
Army

26%
Other



Core Competencies

Science and Technology:

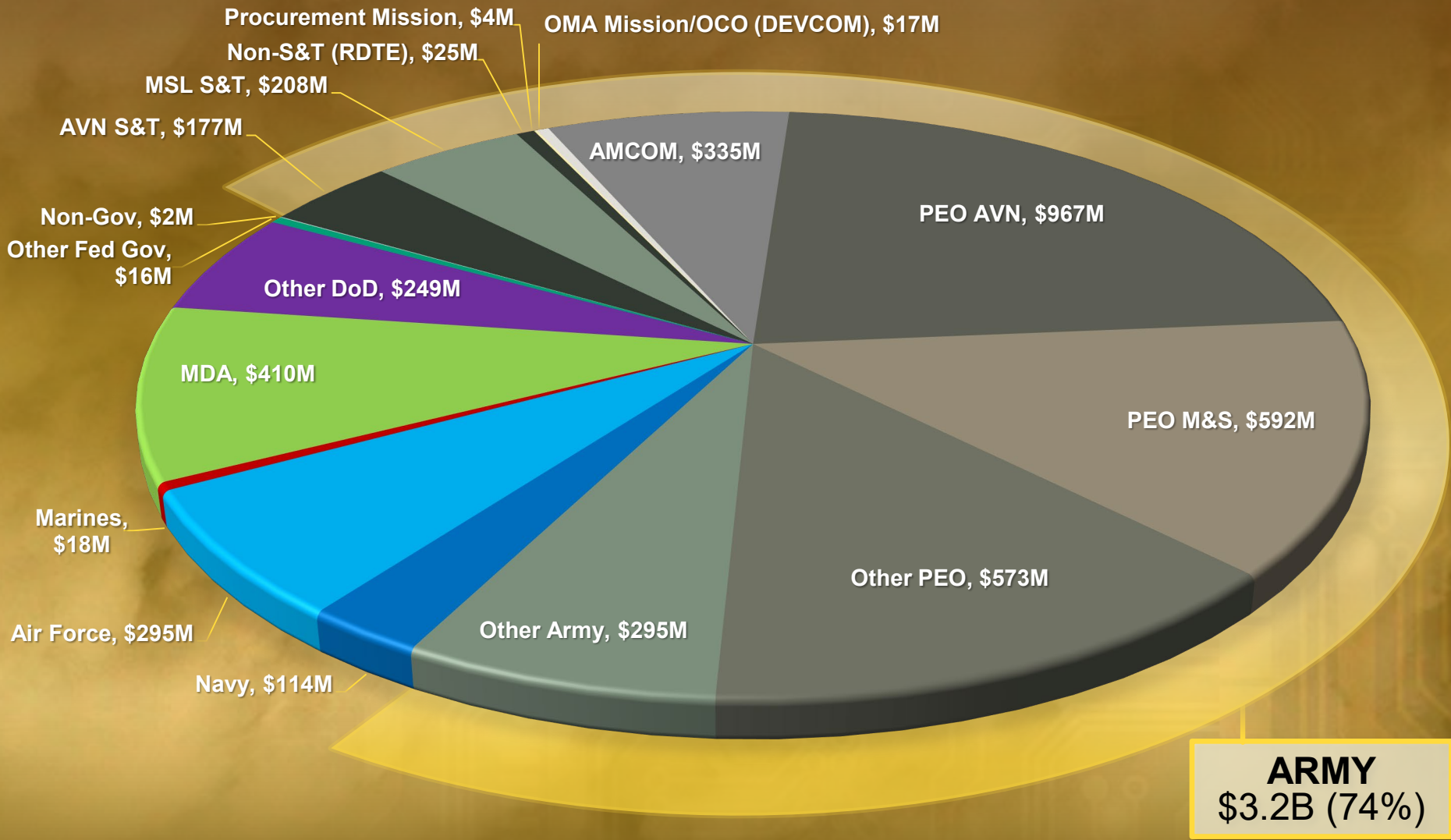
- Missile Seekers, Guidance, Navigation and Control
- Missile Materials and Structures
- Missile Propulsion, Warhead Integration, and Fuzing
- Air Vehicles
- Aviation Mission Systems and Architecture
- Air Defense Radar and Fire Control

Life Cycle Engineering:

- Airworthiness
- Product Performance
- Modeling and Simulation
- Multidiscipline Acquisition and Project Engineering
- Prototype Design and Development
- Software Engineering
- Systems Engineering, Integration, and Interoperability
- Weapons Assurance



FY20 TOTAL REVENUE (\$4.3B)



ARMY
\$3.2B (74%)

As of: 2 OCT 20



AvMC TECHNOLOGY

EXPERTISE • ENGINEERING • TALENT



1.

Develop and integrate next generation technologies to ensure aviation and missile dominance.



2.

Provide world class functional engineering expertise to our PEOs, MDA, RCCTO, and other critical partners.



3.

Provide world class sustainment engineering expertise to our AMCOM partners.



4.

Recruit and develop the engineering talent to achieve areas 1-3.





ARMY PRIORITIES



#1: People

People are the Army's greatest strength and its most important weapon system.



#2: Readiness

The Army must be ready to defeat any adversary, anywhere, whenever called upon, under any condition.

#3: Modernization

The Army must modernize to remain lethal and ready to fight tomorrow, against increasingly capable adversaries and near-peer competitors.



#4: Reform

The Army will improve the way we do business, including how we implement our top priorities, to make the Army more lethal, capable, and efficient.



S&T PRIORITIES ALIGNED WITH THE ARMY MODERNIZATION STRATEGY



**LONG RANGE
PRECISION FIRES**



**NEXT GENERATION
COMBAT VEHICLE**



**FUTURE
VERTICAL LIFT**



**ARMY
NETWORK**



**AIR & MISSILE
DEFENSE**



**SOLDIER
LETHALITY**

Supporting Army and Joint Readiness now and in the Future MDO Environment

RESEARCH ISO FUTURE FORCE

Driving the discoveries and innovations which will be critical to realizing new capabilities for the Army of 2030 and beyond.

ANALYSIS

Conducting objective experimentation and systems analysis to support the equipping and sustaining of our Warfighters.

ENGINEERING

Providing life cycle engineering expertise to support fleet development and readiness across warfighting battlefield operating systems.



AVIATION S&T ALIGNMENT TO ARMY MODERNIZATION PRIORITIES



Aviation Center of Excellence

Program Executive Office – Aviation

Future Vertical Lift (FVL) Modernization Lines of Effort

FUTURE ATTACK RECONNAISSANCE AIRCRAFT (FARA)

PM FARA

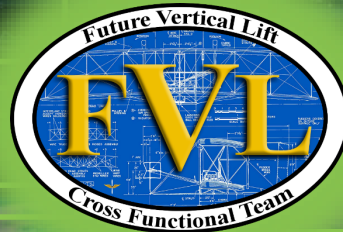
- HOLISTIC TEAM SURVIVABILITY
- ADAPTIVE & RESILIENT TACTICAL AUTONOMY CONTROLS & STRUCTURES
- ADVANCED ROTORCRAFT ARMAMENT AND PROTECTION SYSTEM (ARAPS) & FVL RADAR



FUTURE LONG RANGE ASSAULT AIRCRAFT (FLRAA)

PM FLRAA

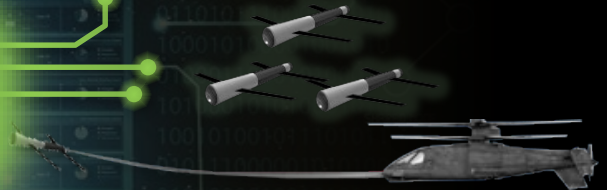
- POWER & THERMAL MANAGEMENT
- FVL MEDICAL
- ALTERNATIVE CONCEPT ENGINE (ACE)
- NEXT GENERATION ROTORCRAFT TRANSMISSION



FUTURE UNMANNED AIRCRAFT SYSTEMS (FUAS)

PM UAS

- AIR LAUNCHED EFFECTS (ALE)
- MULTI-ROLE SMALL GUIDED MISSILE (MRSGM)
- HIGH SPEED MANEUVERABLE MISSILE (HSMM)
- UNMANNED AERIAL SYSTEM SURVIVABILITY



MODULAR OPEN SYSTEMS APPROACH (MOSA)

PM ANSA / PM ASE

- ADVANCED TEAMING
- INTEGRATED MISSION EQUIPMENT (IME)
- HOLISTIC SITUATIONAL AWARENESS AND DECISION MAKING (HSA-DM)
- FULL-SPECTRUM TARGETING
- CONVERGENCE BATTLEFIELD INTEGRATION



LETHALITY

REACH

PROTECTION



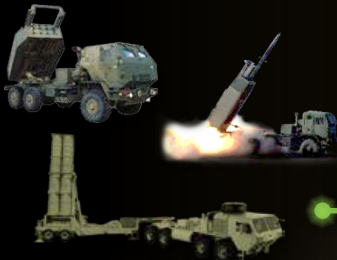
MISSILE S&T ALIGNMENT TO ARMY MODERNIZATION PRIORITIES



Army Modernization Priorities

FIRE SUPPORT CAPABILITY AREA **LONG RANGE PRECISION FIRES**

- STRATEGIC AND OPERATIONAL ROCKETS AND MISSILES (STORM)



CLOSE COMBAT CAPABILITY AREA **NEXT GENERATION COMBAT VEHICLE**

- TACTICAL AVIATION AND GROUND MUNITIONS (TAGM)



AIR DEFENSE CAPABILITY AREA **AIR & MISSILE DEFENSE**

- SHORT AND INTERMEDIATE EFFECTORS FOR LAYERED DEFENSE (SHIELD)
- SEARCH, TRACK, ACQUIRE, RADIATE AND ELIMINATE (STARE)
- INTEGRATED FIRES MISSION COMMAND (IFMC)



CLOSE COMBAT CAPABILITY AREA **FUTURE VERTICAL LIFT**

- TACTICAL AVIATION AND GROUND MUNITIONS (TAGM)



Fires Center of Excellence

Maneuver Center of Excellence

Aviation Center of Excellence

ENGAGE FIRST

EXPAND THE DOME

ON THE MOVE

**Website**<https://www.avmc.army.mil/>**Facebook**<https://www.facebook.com/DEVCOM.AvMC>**Instagram**https://www.instagram.com/DEVCOM_AvMC**Twitter**https://twitter.com/devcom_avmc**LinkedIn**<https://www.linkedin.com/company/devcom-avmc>**Public Affairs**usarmy.redstone.devcom-avmc.mbx.pao@mail.mil