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

Overview Brief

FEBRUARY 2021

APPROVED FOR PUBLIC RELEASE

DEVCOM VISION AND MISSION

VISION

To be the scientific and technological foundation of the Future Force Modernization Enterprise through world-leading research, development, engineering and analysis.

MISSION

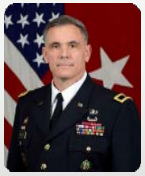
To provide the research, engineering, and analytical expertise to deliver capabilities that enable the Army to deter and, when necessary, decisively defeat any adversary now and in the future.

DEVCOM ORGANIZATION

U.S. ARMY FUTURES COMMAND COMBAT CAPABILITIES DEVELOPMENT COMMAND

CG DEVCOM
MG John A. George

CSM DEVCOM
CSM Jon R. Stanley



DCG DEVCOM
BG James P. Bienlien

DtCG DEVCOM
Mr. John S. Willison

S&T Integration Director DEVCOM
Mr. Chris P. Manning

DEVCOM AMERICAS
Forward Element Center
Ft. Sam Houston, TX

DEVCOM ATLANTIC
Forward Element Center
Stuttgart, Germany

DEVCOM PACIFIC
Forward Element Center
Ft. Shafter, HI

Dr. Patrick Baker	Mr. John Hedderich	Mr. Jeffrey Langhout	VACANT	Dr. Eric Moore	Mr. Douglas Tamilio	Mr. Alfred J. Grein (A)	Mr. Patrick O'Neill
							
DEVCOM Army Research Lab *Director*	DEVCOM Armaments Center *Director*	DEVCOM Aviation & Missile Center *Director*	DEVCOM C5ISR Center *Director*	DEVCOM Chemical Biological Center *Director*	DEVCOM Soldier Center *Director*	DEVCOM Ground Vehicle Systems Center *Director*	DEVCOM Data & Analysis Center *Director*

PREEMINENT LEADERS IN RESEARCH, DEVELOPMENT AND ENGINEERING

OUR LEADERSHIP

Director

r. Jeffrey Langhout (SES)

Chief of Staff

Mr. Steve Fisher

MILDEP

COL Eric Rannow

Technology Development Directorate

Ms. Christi Dolbeer (Acting)

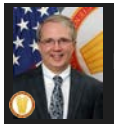
Systems Readiness Directorate

Mr. Keith Darrow (SES)

Software, Simulation, Systems Engineering and Integration Directorate

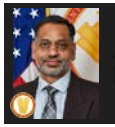
Dr. James Kirsch (SES)

Scientific & Technical Positions (STs)



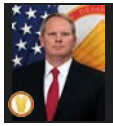
Airvehicle Aerodynamics and Preliminary Design

Dr. Mahendra Bhagwat



Optical Sciences

Dr. Henry Everitt



Radio Frequency Sensors

Dr. Brian Smith

Protective Technologies

Dr. Donna Joyce

OUR MISSION

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

PRIMARY MISSION AREAS

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 the above.

BY THE NUMBERS

11,942 FY20 Strength

2,982 Civilian

10 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:

- Materials and Structures
- Guidance, Navigation, Sensors/Seekers
- Propulsion, Explosives, Energetics, Warheads, Fuzing and Actuation
- Air Vehicles Technology
- Aviation Autonomy and Missiles Technology
- Air Defense Sensor Technology

Capabilities Engineering:

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

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.

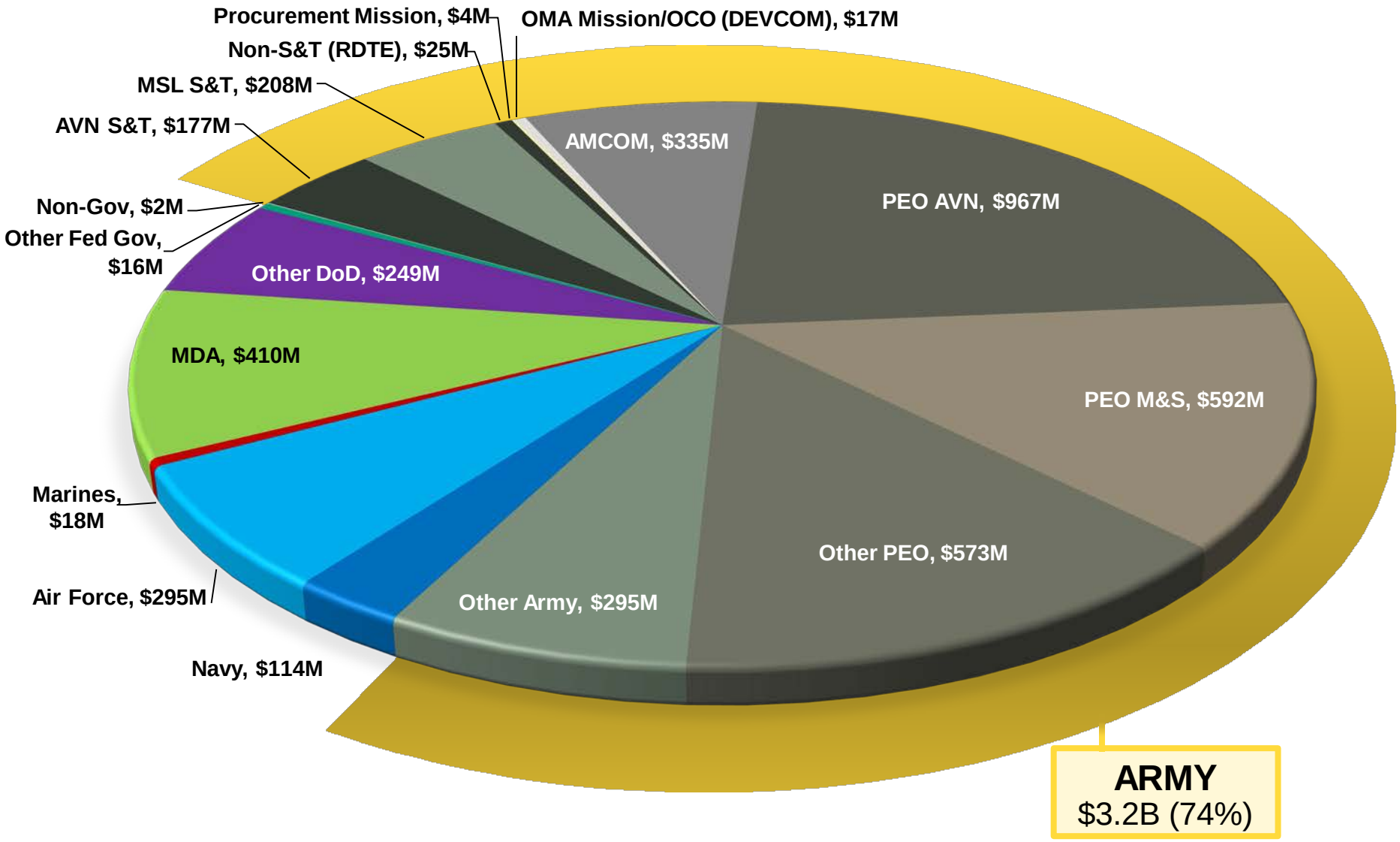
#3: Modernization

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.

FY20 TOTAL REVENUE ($4.3B)



ARMY
$3.2B (74%)

As of: 2 OCT 20

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 lifecycle engineering expertise to support fleet development and readiness across warfighting battlefield operating systems.

AVIATION S&T ALIGNMENT TO ARMY MODERNIZATION PRIORITIES

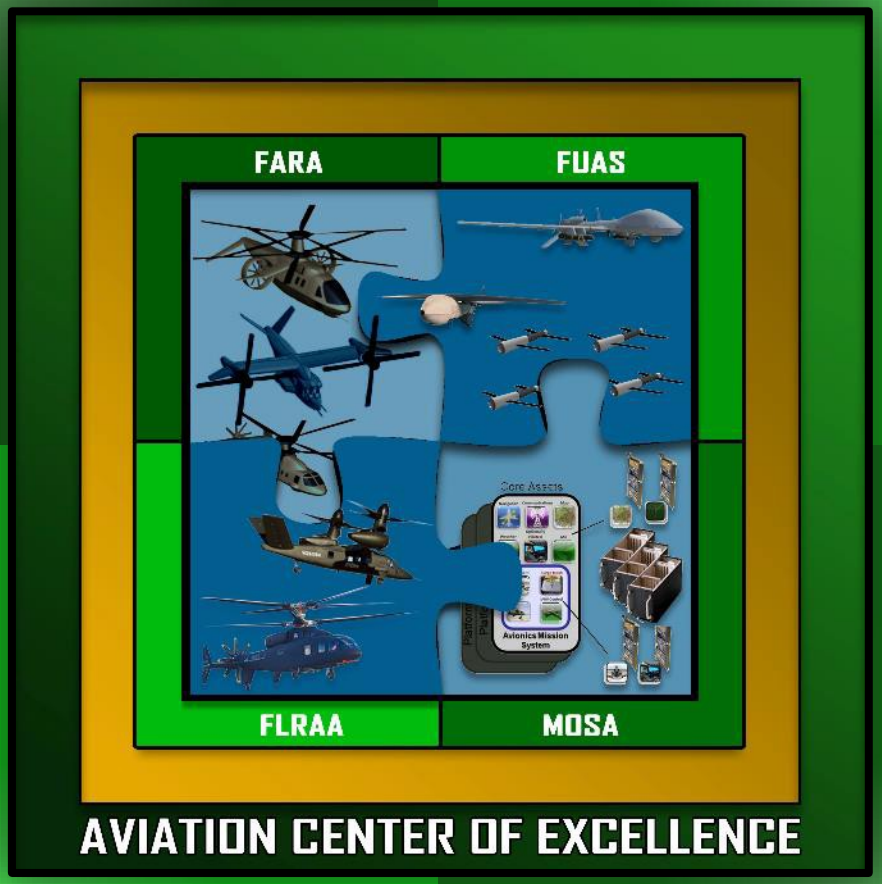
FVL Modernization Lines of Effort

Future Attack Reconnaissance Aircraft

Critical combat system needed to prevail in future wars by enabling Army Aviation to achieve a "leap-ahead" in lethality, survivability, and reach to find, fix, and finish our pacing threats.

Future Unmanned Aircraft Systems

Advanced teaming FVL with next generation UAS delivering lethal and non-lethal air launched effects enables cross-domain fires to penetrate and dis-integrate enemy A2AD systems and exploit expanded maneuver to overmatch peer adversaries.



Future Long Range Assault Aircraft

Essential to exploit the windows of opportunity created by FARA and advanced teaming with UAS/ALE with its increased speed and reach providing significantly more lethal and effective Air Assault and MEDEVAC capabilities on the future battlefield.

Modular Open Systems Approach

The government defined Modular Open System Approach will establish the digital backbone of FVL aircraft allowing for rapid and affordable integration of innovative avionics and mission equipment technologies into our platforms.

LETHALITY **REACH** **PROTECTION**

MISSILE S&T ALIGNMENT TO ARMY MODERNIZATION PRIORITIES

Army Modernization Priorities

Long Range Precision Fires

Technologies for the development, integration and delivery of long range fires at the operational and strategic echelons to restore overmatch, improve deterrence, and disrupt A2AD on a complex, contested and expanded battlefield.

Next Generation Combat Vehicle

Technologies for active protection systems and enhanced lethal effects that will increase our ability to survive and win in the complex and densely urbanized terrain of an intensely lethal and distributed battlefield where all domains are continually contested.

Air & Missile Defense

Technologies for the development of mobile air defense systems that reduce the cost curve of missile defense, restore overmatch, survive volley-fire attacks, and operate within sophisticated A2AD and contested domains.

Future Vertical Lift

Technologies for the development, integration, and delivery of aviation launched air-to-ground and air-to-air missile systems to restore overmatch within sophisticated A2AD and contested domains.

Engage First **Expand the Dome** **On the Move**

QUESTIONS?

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.ccdc-avmc.mbx.pao@mail.mil