Program Executive Office Missiles and Space

MISSION
To Develop, Field, and Sustain Missile and Space Systems for the U.S. Army, Joint and Coalition Warfighters that Provide a Decisive Battlefield Advantage

What We Do:
• Centralized Management for All Army Tactical and Air Defense Missile Programs and Selected Army Space Programs
• Full Life-Cycle Management of Assigned Systems
• World Wide Support of Fielded Weapon Systems
• Key Link Between the User and Tech Base

What We Manage:
• Eight Project Offices
• 34 Programs of Record
• 27 ONS/JUONS Approved and in process
• International Cooperative Development Programs

VISION
To be a Highly Efficient, Effective, Agile, and Innovative Warfighter - Focused Organization for Developing and Sustaining Missile and Space Systems

Workforce:
Government ~1100
Support Contractors ~790

FY17 President Budget
~ 4.8B
FMS: Total Case Value $43.2B, 41 Countries

To Support the Warfighter
PEO Missiles and Space Organization

Mr. Barry Pike
PEO
256-876-0714
barry.j.pike.civ@mail.mil

Mr. Robert Rasch, Jr.
DPEO
256-313-3405
robert.a.rasch2.mil@mail.mil

SFC Laurence Gardiner
NCOIC
256-313-1049
laurence.e.gardiner.mil@mail.mil

Mr. Gene Preston
Chief Engineer
256-842-0289
gene.a.preston.civ@mail.mil

Ms. Natalie De Luca
Chief Information Officer
256-876-5010
natalie.a.de Luca.civ@mail.mil

Mr. Jim Oswell
APEO Bus Mgt
256-876-5186
james.e.oswell.civ@mail.mil

Mr. Frank De Luca
APEO Ops
256-955-0706
frank.j.de Luca2.civ@mail.mil

Ms. Deborah Daniel
APEO Logistics
256-313-2580
deborah.l.daniel.civ@mail.mil

Mr. Bill Ruta
Close Combat Weapon Systems (CCWS)
256-876-5185
william.b.ruta.civ@mail.mil

Mr. James Childress
Counter-Rocket, Artillery, Mortar (C-RAM)
256-876-9100
james.s.childress2.civ@mail.mil

Mr. Tom Doss
APEO International
256-876-7441
thomas.n.doss2.civ@mail.mil

Mr. David Warnick
Joint Attack Munition Systems (JAMS)
256-876-1141
david.a.warnick2.mil@mail.mil

Ms. Deborah Daniel
Chief Information Officer
256-876-5010
natalie.a.de Luca.civ@mail.mil

Mr. Bill Ruta
Close Combat Weapon Systems (CCWS)
256-876-5185
william.b.ruta.civ@mail.mil

Mr. James Childress
Counter-Rocket, Artillery, Mortar (C-RAM)
256-876-9100
james.s.childress2.civ@mail.mil

Mr. Tom Doss
APEO International
256-876-7441
thomas.n.doss2.civ@mail.mil

Mr. David Warnick
Joint Attack Munition Systems (JAMS)
256-876-1141
david.a.warnick2.mil@mail.mil

Mr. Frank De Luca
APEO Ops
256-955-0706
frank.j.de Luca2.civ@mail.mil

Ms. Deborah Daniel
Chief Information Officer
256-876-5010
natalie.a.de Luca.civ@mail.mil

Mr. Bill Ruta
Close Combat Weapon Systems (CCWS)
256-876-5185
william.b.ruta.civ@mail.mil

Mr. James Childress
Counter-Rocket, Artillery, Mortar (C-RAM)
256-876-9100
james.s.childress2.civ@mail.mil

Mr. Tom Doss
APEO International
256-876-7441
thomas.n.doss2.civ@mail.mil

Dr. Charles Basham, Jr.
Chief of Staff
256-876-0872
charles.s.basham.civ@mail.mil

Mr. Mike Chandler
Integrated Air & Missile Defense (IAMD)
256-313-3576
michael.r.chandler10.civ@mail.mil

Mr. Chuck Worshim
Cruise Missile Defense Systems (CMDS)
256-876-4927
charles.worshim2.mil@mail.mil

Mr. Gary Knoblauch
Missile Defense 
Space Systems (MDSS)
256-842-2401
steven.j.whitmore.civ@mail.mil

Any Warfighter - Anywhere - All The Time
<table>
<thead>
<tr>
<th><strong>AVIATION</strong></th>
<th><strong>FIRES</strong></th>
<th><strong>MANEUVER</strong></th>
<th><strong>AIR DEFENSE &amp; SPACE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>IFPC Inc 2-I</td>
<td>NASAMS</td>
<td>Sentinel</td>
<td>RAM Warn</td>
</tr>
<tr>
<td>Hydra-70</td>
<td>NASAMS</td>
<td>Sentinel</td>
<td>RAM Warn</td>
</tr>
<tr>
<td>Small Guided Munitions</td>
<td>Sentinel</td>
<td>RAM Warn</td>
<td>C-RAM Intercept (LPWS)</td>
</tr>
<tr>
<td>HELLFIRE</td>
<td>Sentinel</td>
<td>RAM Warn</td>
<td>C-RAM Intercept (LPWS)</td>
</tr>
<tr>
<td>Launchers</td>
<td>Sentinel</td>
<td>RAM Warn</td>
<td>C-RAM Intercept (LPWS)</td>
</tr>
<tr>
<td>Avenger</td>
<td>IAMD Battle Command System (IBCS) Engagement Operations Center (EOC)</td>
<td>PATRIOT/ Ground Support Equipment</td>
<td></td>
</tr>
<tr>
<td>PATRIOT Advanced Capability (PAC-3)</td>
<td>Lower Tier Air Missile Defense Sensor (LTAMDS)</td>
<td>Long Range Precision Fires (LRPF)</td>
<td></td>
</tr>
<tr>
<td>Integrated Fire Control Network (IFCN) Relay</td>
<td>PATRIOT Advanced Capability (PAC-3)</td>
<td>High Mobility Artillery Rocket System (M142 HIMARS)</td>
<td></td>
</tr>
<tr>
<td>AN / TPQ-37</td>
<td>PAC-3</td>
<td>Lethal Miniature Aerial Missile System (LMAMS)</td>
<td></td>
</tr>
<tr>
<td>Range Radar Replacement Program (RRRP)</td>
<td>PAC-3 Missile Segment Enhancement (MSE)</td>
<td>Precision Fires Manager (PFM)</td>
<td></td>
</tr>
<tr>
<td>JAVELIN</td>
<td>Containerized Weapon System (CWS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tube-Launched, Optically-Tracked, Wire-Guided (TOW)</td>
<td>Joint Tactical Ground Station (JTAGS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Improved Target Acquisition System (ITAS)</td>
<td>THAAD &amp; AN/TPY-2 Sustainment Management Office (T2SMO)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lethal Miniature Aerial Missile System (LMAMS)</td>
<td>Space Directorate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Precision Fires Manager (PFM)</td>
<td>SMDC Nanosatellite Project (SNaP-3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Containerized Weapon System (CWS)</td>
<td>Kestrel Eye (KE) Microsatellite</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Any Warfighter - Anywhere - All The Time**
PEO Missiles and Space Strategic Context

Office of Secretary of Defense

Defense Acquisition Executive

Missile Defense Agency

ARMY

Army Acquisition Executive

Matrix Functional and Technical Support

Direct Report
Coordination, Interface
Functional and Technical Support

Any Warfighter - Anywhere - All The Time
Program Executive Office, Missiles and Space
Global Reach

41 Countries – 495 Active FMS Cases
$43.2B Case Value
FY16 Appropriation and PB17 Comparison

**Base & OCO $M**

FY16 Appropriation

- RDTE, 865.4, 25%
- OMA, 388.9, 11%
- PROC, 2,272.6, 64%

Total: $3,527.0M

FY17 President’s Budget

- RDTE, 883.5, 19%
- OMA, 640.1, 13%
- PROC, 3,239.4, 68%

Total: $4,763.0M

* RDTE before SBIR/STTR reduction
PEO Missiles and Space Funding ($M)

FY17 OCO
OMA = $436.7M
PROC = $894.3M
RDTE = $78.7M
TOTAL = $1,409.7M

* FY19-22 do not include OCO funding
#1 Priority
Support to the Warfighter

## FIRE SUPPORT
- **ATACMS**
  - 590 Expended
- **HIMARS**
  - 27 Launchers Deployed to SWA
- **GMLRS Rockets**
  - 4,576 Unitary Rockets Expended

## AIR AND MISSILE DEFENSE
- **C-RAM**
  - Deployed in support of 3 different Operations
- **AMDPCS Family of Systems**
  - 7 ADA BDEs, 3 AAMDCs
  - 146 ADAMs

## AVIATION
- **Over 583,652 Hydra-70 2.75” Rockets Expended**
- **HELLFIRE HYDRA 70**
  - Over 39,049 HELLFIRES Expended

## CLOSE COMBAT
- **Over 10,995 TOW Missiles Expended**
- **Over 2,134 MISSILES Expended**
- **TOW-ITAS**
- **TOW 2B**
- **JAVELIN**

## SHORAD
- **Patriot**
  - ~50% Fire Units Forward Deployed
- **JTAGS**
  - 4 OCONUS Sites Space Based Missile Warning
- **STINGER AVENGER**
  - Counter-UAS JUONs
- **C-RAM**
  - Deployed in support of 3 different Operations
- **AMDPCS Family of Systems**
  - 7 ADA BDEs, 3 AAMDCs
  - 146 ADAMs

## AMDPCS Family of Systems
- **HIMARS**
  - 27 Launchers Deployed to SWA
- **GMLRS Rockets**
  - 4,576 Unitary Rockets Expended

## C-RAM
- Deployed in support of 3 different Operations

## PATRIOT
- ~50% Fire Units Forward Deployed

## JTAGS
- 4 OCONUS Sites Space Based Missile Warning

## SENTINEL
- Sense & Warn In-Theater and Homeland Defense

Any Warfighter - Anywhere - All The Time
New/Major Initiatives

- Integrated Air & Missile Defense (IAMD)
- Indirect Fire Protection Capability Increment 2-Intercept (IFPC Inc 2-I)
- Lower Tier Air and Missile Defense Sensor (LTAMDS)
- Long Range Precision Fires (LRPF)
- Counter-Unmanned Aircraft Systems (UAS)
Long Term Trends and Opportunities

Emerging Trends Across the Portfolio:

- Need for 360 degree Sensing and Intercept – Surveillance Coverage and Fire Control
- Extended Range Ground Munitions
- Link Sensors and Shooters
- Ability to Clear Airspace and Employ Fires in Joint, Interagency, Intergovernmental, and Multination (JIIM) Environment
- Mobile AMD in support of the Maneuver Force
- Need for capabilities to counter the Global Proliferation of Commercial and State Sponsored UAS

Long Term Potential Opportunities Across the Portfolio:

- Active Electronically Scanned Array (AESA) Technology to Produce True Dual-Band Multi-Mission Radar Capability
- Accelerate Integrated Defense Planner Concepts Efforts with the Potential to Integrate Air Defense Artillery and Field Artillery Command and Control
- Multi-Mission Sensors, Platforms, Shooters and Missiles
- Deliver Mobile C-UAS capability within the Brigade Combat Team Formation (Kinetic/Laser/HPM)
Questions?

Any Warfighter - Anywhere - All The Time