

Precision Weapons for the Agile Warfighter

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PEO Missiles and Space

Mission

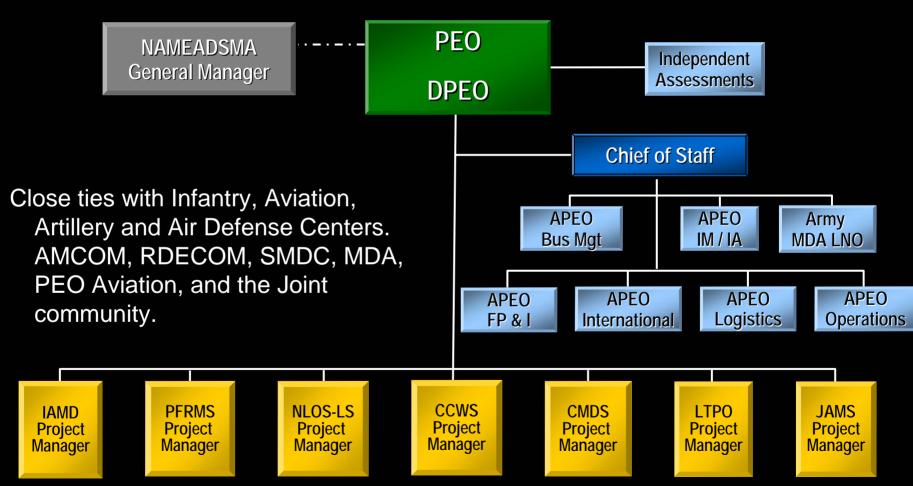
 To provide an unprecedented level of service and support for PEO Missiles and Space Weapon Systems.

Vision

 A Soldier-supported team that provides uncompromising service in development, procurement, and sustainment of superior weapon systems.



Organizational Structure





CCWS: Close-Combat Weapon Systems



Close-Combat Missiles and Target Acquisition for the Front-Line Warfighter

- ✓ Develop, Field and Sustain Current and Future Force Close Combat Missile Systems and Associated Target Acquisition Systems
- Enhance Effectiveness of Current Systems With Technology Insertion
- ✓ Maintain Reliability of Stockpiled Systems



JAMS: Joint Attack Munition Systems

Aviation Rockets and Missiles for the Joint Force



- Provide Current and Future Force
 Joint Aviation Assets With the
 Rocket and Missile Systems
 Needed to Dominate the Land Battle
- **✓** Upgrade Current Missile Systems



NLOS: Non-Line of Sight Systems



Unmanned Fire Support

- ✓ Highly Deployable, Platform-Independent Container Launch Unit (CLU)
- ✓ Self-Contained Technical Fire Control
- **✓** Remote, Unmanned Operations
- ✓ Precision Fire Support to Brigade Combat Teams (BCT)



PFRMS: Precision Fires Rocket and Missile Systems



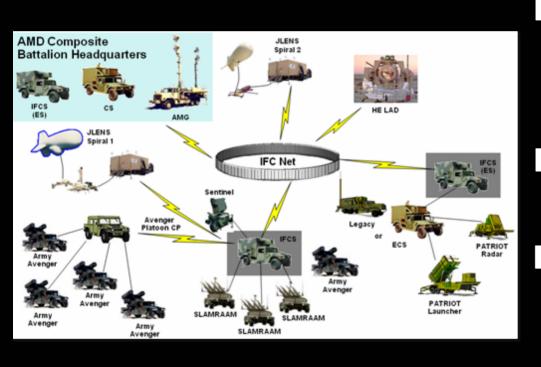
Precision Fires for Current and Future Forces

- ✓ Provide a Suite of Launchers, Rockets and Missiles That Provide the Precision Fire Capability Needed for Current and Future Forces
- ✓ Increased Deployability
- ✓ Increased Precision
- ✓ Integration of Existing Technologies to Provide New Capabilities



CMDS: Cruise Missile Defense Systems

Enhanced Protection for the Warfighter

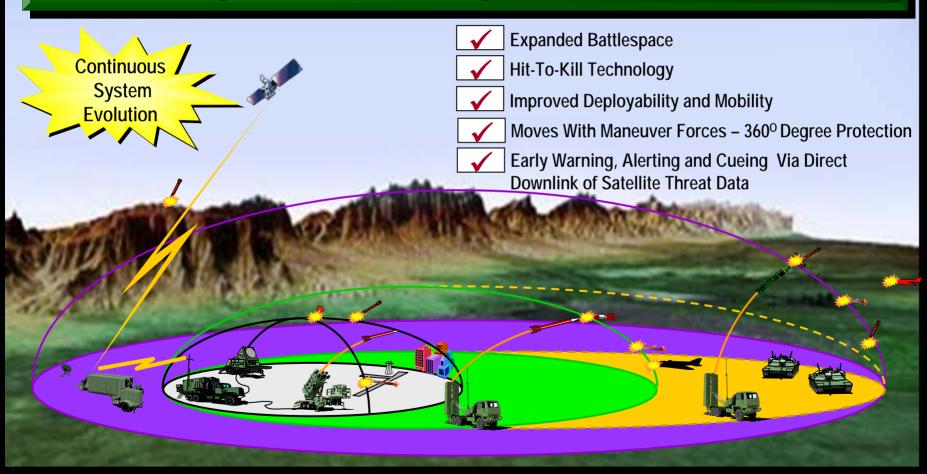


- Provide Fully Integrated Low Altitude
 Air Defense Against Cruise Missiles,
 Unmanned Aerial Vehicles and other
 Low Flying Fixed and Rotary Wing
 Targets
- ✓ Developing Common BMC4I Capability for the AMD Task Force and the Composite Battalion
- ✓ Evolve Into a Future AMD Force Capability Capable of Defeating Current and Future Threats Including Rockets, Mortars and Artillery
- Evolve Sentinel Through P3I to Support
 FCS/SLAMRAAM by Overcoming
 Emerging / Evolving Threats



Lower Tier

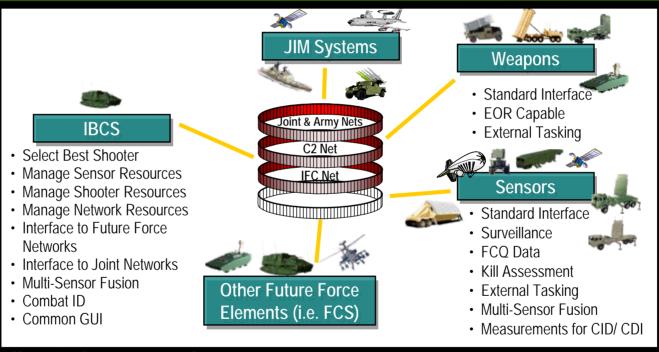
Effective Against Nuclear, Biological and Chemical Warheads





Integrated Air & Missile Defense

Fully Integrated Defense for the Warfighter



- ✓ Integrate All AMD Sensors and Shooters Into a Seamless Weapon System-of-Systems
- ✓ Net-Centric Cruise Missile Defense

- ✓ Open Architecture That Supports New Technologies and Capabilities
- Joint Composite Track Management



Trends









- We have precision guidance.
- Now we need <u>precision effects</u>.
 - Selectable firing modes-variable effects.
 - Scalable lethality ("dial-a-yield").
 - Defeat any target type.





Benefits - Precision Effects

- Extends concept of precision to both point and area effects.
 - Precision will mean what, where, when, and how much.
- Provides warfighter with agility. Not just speed but quickness for 4th gen. warfare.
 - Improved op tempo via stowed kills and lower logistics burden.
 - Reduced collateral damage, enhanced flexibility of use.
 - Holistic approach includes training & supply as well as combat operations.

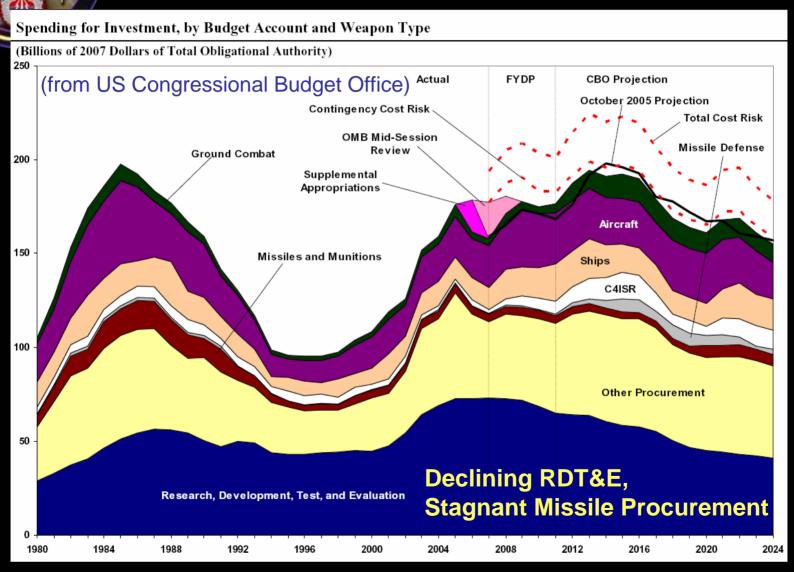


Challenges

- More stringent requirements.
 - Insensitive Munitions, Fuze Safety, Ignition System Safety, and Unexploded Ordnance (UXO).
- System, Platform, and Weapon Integration
- Industrial Base (sole-source, surge, "green")
- Acquisition Model (system, performance)
- Time and Money!
 - How to fund game-changing tech while resetting existing Army?



Defense Budget Prediction





How will fuze tech help?

- Firing systems for selectable effects.
- Electronic fuzes that are smaller, lighter, cheaper, and survivable.
- MEMS, especially for very low cost applications.
- Proximity sensors, cheap, precise
- Improved safety and reliability.









Summary

 PEO Missiles and Space: precision weapon systems for the agile warfighter.

 Fuze technology is <u>key</u>, but people with world-class talent, iron will, and gamechanging ideas have to come first.

"People, ideas, and hardware – in that order!

- COL John D. Boyd, USAF