



Precision Weapons for the Agile Warfighter

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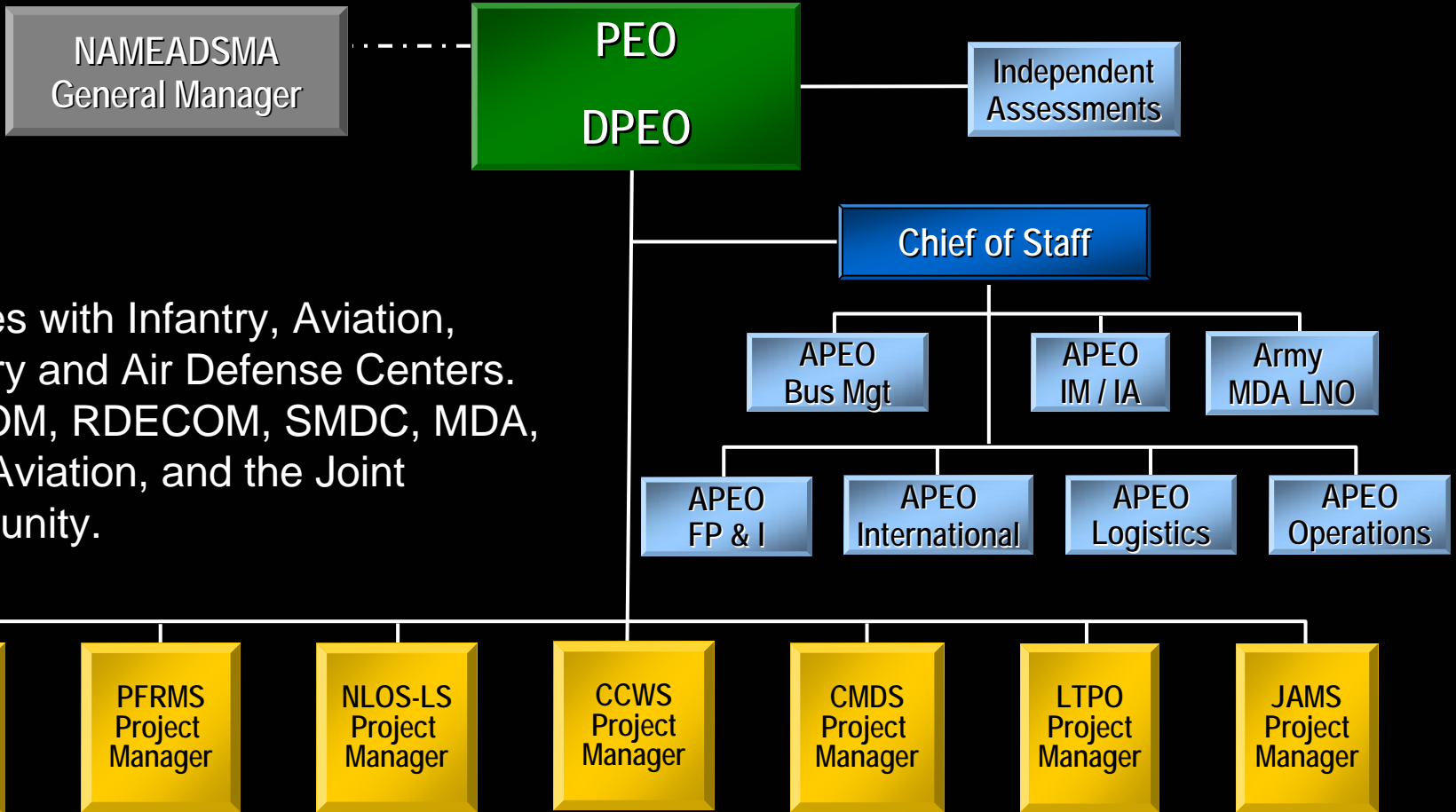


PEO Missiles and Space

- 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



Close ties with Infantry, Aviation, Artillery and Air Defense Centers. AMCOM, RDECOM, SMDC, MDA, PEO Aviation, and the Joint community.



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 Muniton 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

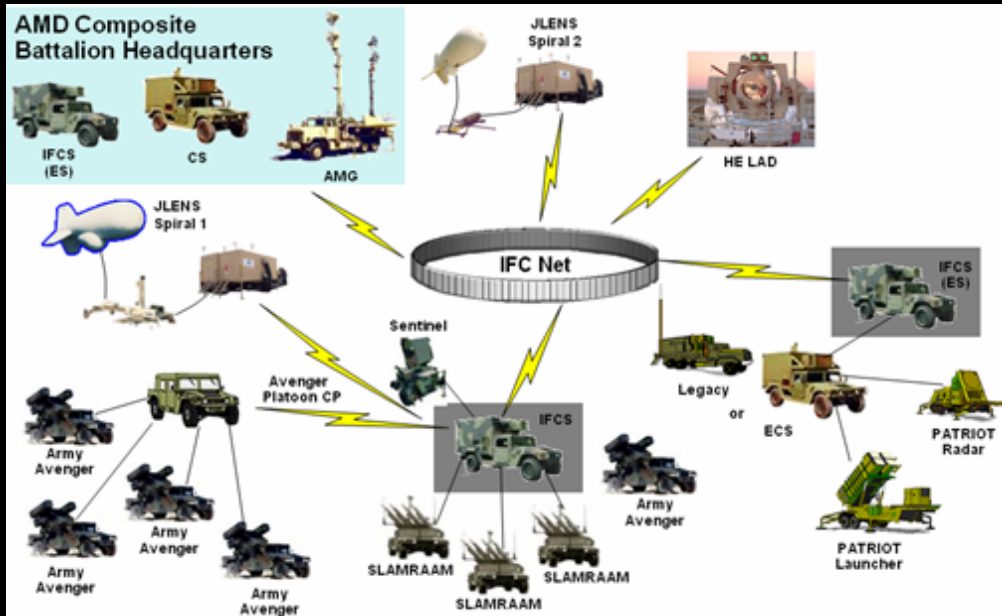


Precision Fires for Current and Future Forces

- ✓ 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



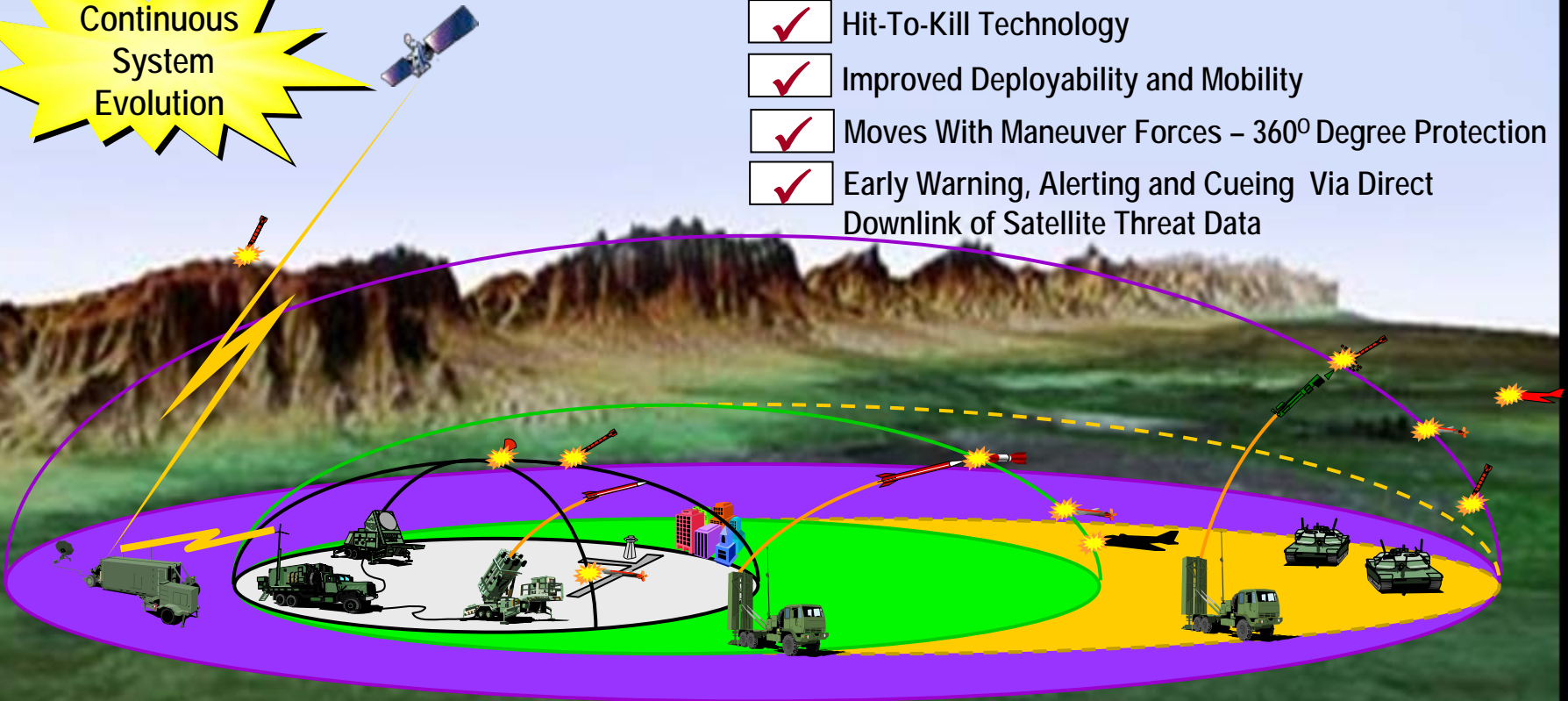
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Lower Tier

Effective Against Nuclear, Biological and Chemical Warheads

Continuous
System
Evolution

- ✓ Expanded Battlespace
- ✓ Hit-To-Kill Technology
- ✓ Improved Deployability and Mobility
- ✓ Moves With Maneuver Forces – 360° Degree Protection
- ✓ Early Warning, Alerting and Cueing Via Direct Downlink of Satellite Threat Data

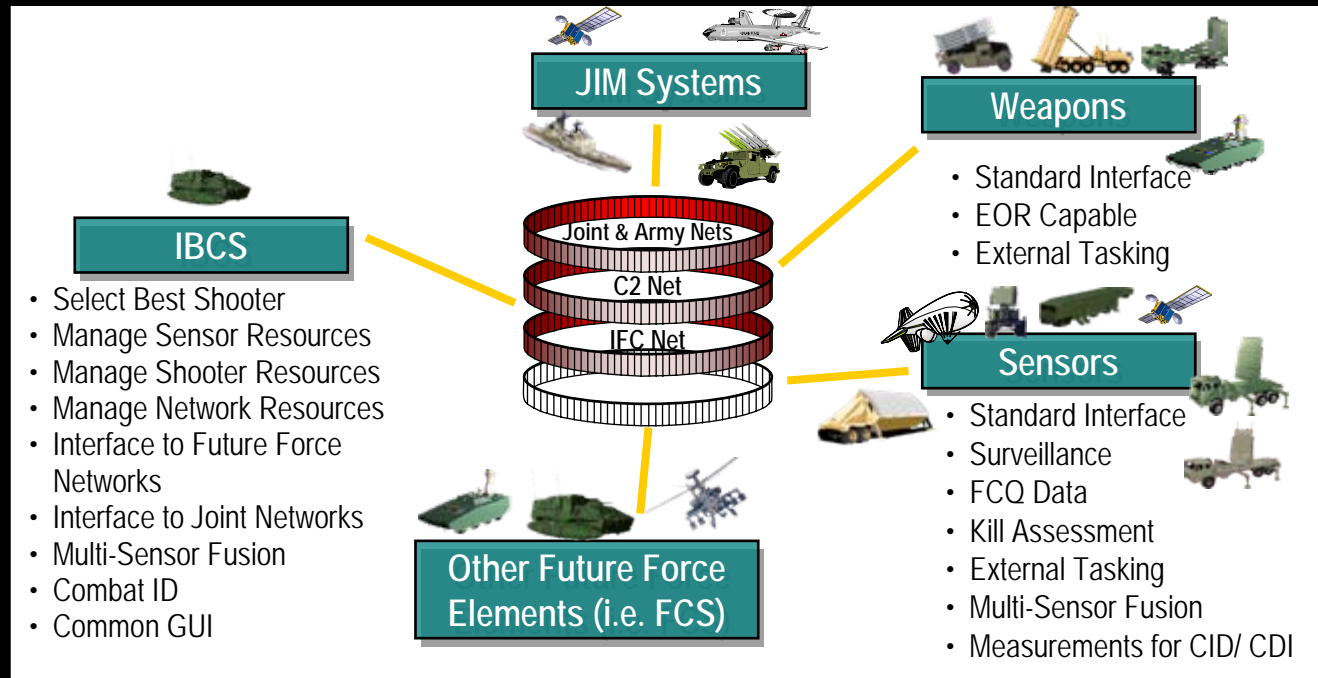


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Integrated Air & Missile Defense

Fully Integrated Defense for the Warfighter



✓ Integrate All AMD Sensors and Shooters Into a Seamless Weapon System-of-Systems

✓ Open Architecture That Supports New Technologies and Capabilities

✓ Net-Centric Cruise Missile Defense

✓ Joint Composite Track Management



Trends



- We have **precision guidance**.
- Now we need **precision effects**.
 - 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?

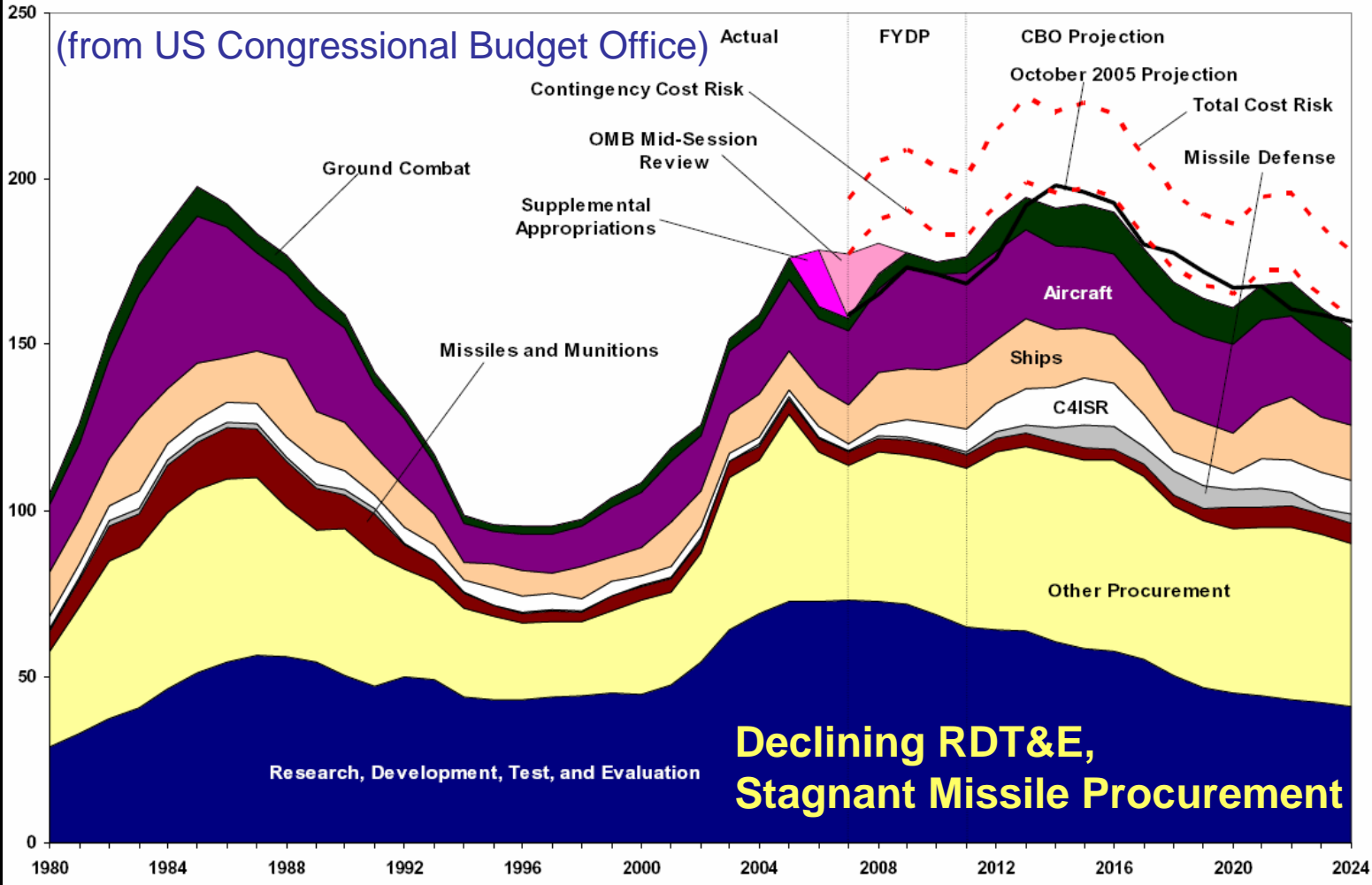


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Defense Budget Prediction

Spending for Investment, by Budget Account and Weapon Type

(Billions of 2007 Dollars of Total Obligational Authority)



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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 key, but people with world-class talent, iron will, and game-changing ideas have to come first.

“People, ideas, and hardware – in that order!”

- COL John D. Boyd, USAF