



MBDA
MISSILE SYSTEMS

LOCKHEED MARTIN 

MEADS
INTERNATIONAL, INC.
21st CENTURY AIR AND MISSILE DEFENSE

MEADS Medium Extended Air Defense System



MEADS System Elements



PAC-3 MSE Missile – Advanced missile has hit-to-kill accuracy at all altitudes and in clutter



Launcher – Transportable, tactically mobile, rapid-reload design



Sensors – UHF Surveillance Radar and X-band Multifunction Fire Control Radar both protect with 360-degree coverage



BMC4I – Netted, distributed, automated communications network with integrated Engagement Operations/Force Operations (EO/FO)

MEADS – 21st Century Air and Missile Defense

- **Target Set.** MEADS defeats next-generation threats including tactical ballistic missiles (TBMs), unmanned aerial systems, cruise missiles, and aircraft. MEADS provides expanded protection for our forces and homeland defense for our allies. Proven hit-to-kill technology impacts the threat and destroys weapons of mass destruction (WMD) at intercept.
- **Operating Concepts.** MEADS will provide air and missile defense (AMD) protection for the maneuver force for the first time. MEADS will also provide area defense, homeland defense, and weighted asset protection.
- **Degree of Protection.** 360-degree coverage defends against attack by cruise missile, TBMs, or air-breathing threats from any direction.
- **Transportability and Mobility.** Lightweight, efficient Major End Items (MEIs) enable strategic and tactical transport. MEADS is C-130/A400M transportable and has excellent cross-country mobility to provide continuous air and missile defense coverage for the maneuver force.
- **Interoperability.** Supports coalition fighting through communications with external sensors and data links such as ACCS, AWACS, SAMOC, AEGIS, THAAD, and Patriot.
- **Netted-Distributed Architecture.** MEADS provides operational flexibility to tailor battle elements using distributed sensors, launchers, and TOCs. Battle elements can be tailored on demand without interrupting operations.
- **Plug-and-Fight.** MEADS sensors, shooters, or other Tactical Operations Centers simply act as nodes on the network. A commander can dynamically add or subtract elements without shutting the system down. A standardized interface extends plug-and-fight to non-MEADS elements. This flexibility is unprecedented for ground-based AMD systems.
- **Survivability.** MEADS defends the force and defends itself. High off-road mobility, dispersion, and availability provide additional protection for the system. ECM resistance and distributed workload increases survivability.
- **Sustainability.** Graceful degradation and optimized on-board provisions yield high operational availability. Cutting-edge prognostics and diagnostics minimize downtime and reduce resources to sustain fielded systems for extended periods. Advanced logistic design reduces cost of ownership.

MEADS

- Replacement for Patriot, Hawk, and Nike Hercules
- 21st century air and missile defense system meets critical requirements for partner nations
- Critical Design Review complete in 2010
- Closely watched model for development of transatlantic defense systems

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