



# MEADS Missile (MSE)

- Hit-to-kill missile
- Increased performance, greater altitude and range compared to PAC-3
- Threat-driven upgrades to defeat the advancing threat set
- Leverages improved acquisition capability and detection range of MEADS radars



***Successful intercept tests  
in February 2010 and March 2011 at White Sands***

# MEADS Design and Development

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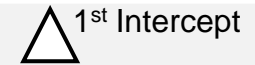
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- D&D contract starts September 2004 (\$3.4B)
- Successful SRR in 2005
- Successful PDR in 2007
- Requirements reviewed, updated, and revalidated
- Program restructured into 2008 (2 phases)
  - CDR to be completed August 2010
  - Additional time and money needed for Post-CDR

- Successful CDR in August 2010
  - Hardware designs approved
  - MEADS found sufficiently mature to proceed with fabrication and into testing
- Successful MOU-mandated SPR in October 2010
- Launcher and Battle Manager rolled out in December 2010
- US 2012 budget does not provide additional funds (back to \$3.4B ceiling)

## CDR Phase

## Post-CDR Phase



Octopack



PAC-3 MSE



ILES



MFCR



Launcher



Identification Friend or Foe

***MEADS team leveraging program success and maximizing remaining development funds to demonstrate MEADS capability***

# MEADS Verification Facilities

## *Two System Integration Labs (SILs) – Rome and Orlando*

- Performance assessment/ verification
- Simulation software development
- Distributed simulation integration and test
- System Stimulator development and integration
- Wide area classified network integrates locations



***SILs uses tactical hardware/software  
for hardware-in-the-loop tests***

# Huntsville Battle Management Test and Integration Facility

- 12,500 square foot facility
- 7 test lines with representative unsheltered tactical operations center and state-of-the-art test set
- Complete virtual environment simulates threats, sensors, launchers, interceptors and external communications for complete verification of TOC requirements



***State-of-the-art capabilities for development of MEADS TOC software and hardware components***

# System Integration at Pratica di Mare

## *MEADS will demonstrate*

- System attachment/detachment demonstrating MEADS plug-and-fight operation
- With the TOC, Multifunction Fire Control Radar, Launcher, and MEADS System Stimulator, full MEADS system operation during simulated engagements of live target aircraft

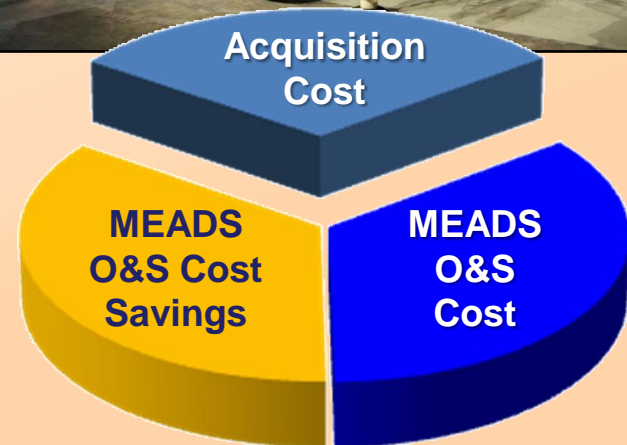
***After pre-integration at Pratica di Mare, MEADS will complete system integration at White Sands Missile Range and begin planned intercepts in 2012***

# Facilities Opened at White Sands Missile Range



***State-of-the-art facilities in place to support ground testing of major end items and flight test***

- Dramatically reduced operation and support (O&S) costs
  - Savings result from high reliability, automated fault detection, prognostics, two-level maintenance, and fewer system elements
- Up to 8 times the defended area with far fewer system assets
- Substantial reduction in deployed personnel and equipment, and airlift demand



***MEADS significantly reduces cost of ownership***

## ***MEADS provides superior battlefield capabilities with unprecedented flexibility***

- 360-degree capability against entire threat suite
- Enhanced strategic transportability and tactical mobility
- Open architecture with plug-and-fight capability
- Tailored/scalable battle elements ensure coalition interoperability

## ***MEADS program is making significant progress***

- CDR complete August 2010 – critical technologies mature and design stable
- Test and verification of software in progress
- System integration of radars, launchers, and tactical operation centers underway
- Intercept tests begin in 2012



***World-class theater AMD system with dramatically reduced operation and support costs***