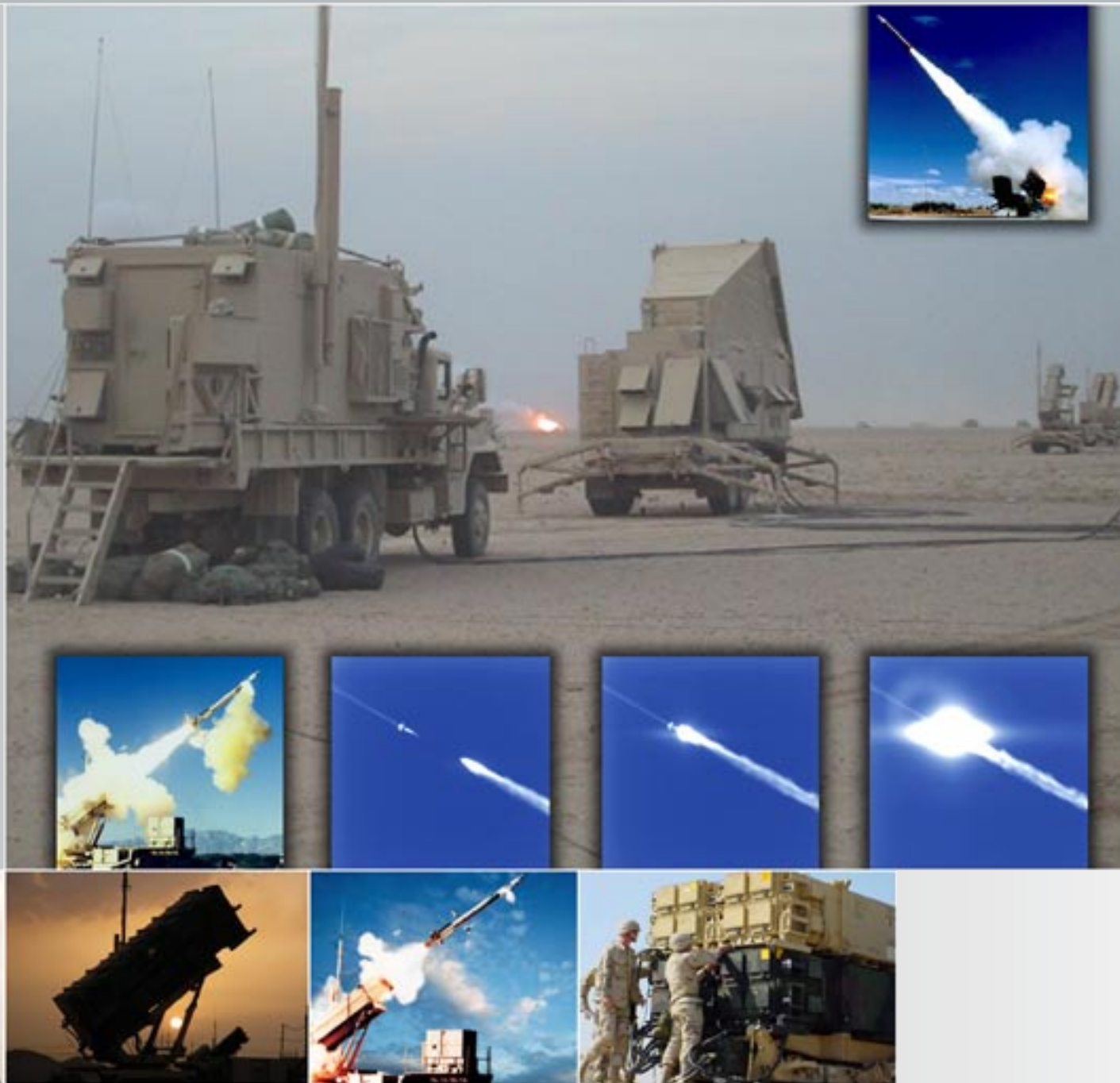


Protects ground forces and critical assets at all echelons from advanced aircraft, cruise missiles, and tactical ballistic missiles.



## DESCRIPTION AND SPECIFICATIONS

The PATRIOT system is an air-defense, guided missile system with long-range, medium to high altitude, all weather capabilities designed to counter tactical ballistic missiles (TBMs), cruise missiles, and advanced aircraft. The combat element of the PATRIOT missile system is the fire unit, which consists of a phased array radar set (RS), an engagement control station (ECS), an electric power plant, an antenna mast group (AMG), a communications relay group (CRG), and eight launching stations (LSs). The RS provides all tactical functions of airspace surveillance, target detection, identification, classification, and tracking, and missile guidance and engagement support. The ECS provides the human interface for command control. Each LS contains four ready-to-fire PATRIOT Advanced Capability (PAC-2) guidance enhanced missiles sealed in canisters that serve as shipping containers and launch tubes. PATRIOT's fast-reaction capability, high firepower, ability to track numerous targets simultaneously, and ability to operate in a severe electronic countermeasure environment are significant improvements over previous air defense systems.

The PATRIOT Advanced Capability-3 (PAC-3) program significantly upgrades RS and ECS, and adds the new PAC-3 missile, the primary mission of which is to kill maneuvering and non-maneuvering TBMs, as well as counter advanced cruise missile and aircraft threats. The PAC-3 missile employs hit-to-kill technology for greater lethality against TBMs armed with weapons of mass destruction. Up to 16 PAC-3 missiles can be loaded per launcher, increasing firepower and missile defense capabilities. The PAC-3 system provides an integrated air and cruise missile defense solution for the Air and Missile Defense System of Systems. The PAC-3 upgrade program includes system improvements that increase performance against evolving threats, meet user requirements, and significantly enhance joint interoperability. The Medium Extended Air Defense

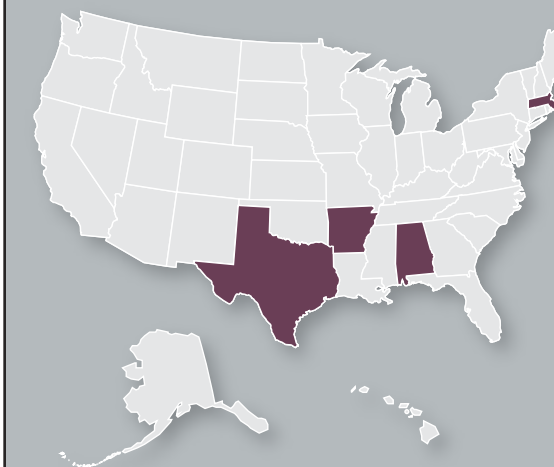
System (MEADS) will be the successor system to PATRIOT, using the PAC-3 missile as the baseline interceptor. The Army elected in FY03 to combine the PATRIOT and MEADS program because they share common components and missions.

## PROGRAM STATUS

- **3QFY04** Army System Acquisition Review Council (ASARC) approved Milestone B for PAC-3/MEADS Combined Aggregate Program
- **3QFY04** Joint Requirements Oversight Council (JROC) signed waiver for PAC-3 Missile Insensitive Munition
- **3QFY04** PAC-3 Missile Initial Operational Capability
- **3QFY04** JROC approved the PAC-3/MEADS Combined Aggregate Program Capabilities Development Document
- **4QFY04** USD(AT&L) approved Milestone B for PAC-3/MEADS Combined Aggregate Program
- **4QFY04** PAC-3 missile developmental/operational test 11
- **1QFY05** PAC-3 missile developmental/operational test 12
- **1QFY05** Request the Army Acquisition Executive approve limited procurement for additional FY04 missile procurements. This action covers the Operation Iraqi Freedom supplement and a Congressional plus up

## PROJECTED ACTIVITIES

- **3QFY04-4QFY05** Continue PAC-3 follow-on testing. Continue PAC-3 evolutionary development program. Provide cost reduction initiative hardware for missile integration
- **2QFY05** Production decision for Block 2004 for PAC-3 missile configuration (FY05-06)
- **3QFY05** Missile segment enhancement critical design review
- **3QFY05** JROC Insensitive munition waiver update
- **1QFY06** Post deployment build - 6 Development test and evaluation



## CONTRACTORS

**PAC-3 Missile, PAC-3 Missile Assembly, PAC-3 Missile Sub-Assembly:**  
Lockheed Martin  
(Grand Prairie, TX; Camden, AR; Lufkin, TX)  
**PATRIOT Modifications, Recapitalization Program:**  
Raytheon (Andover, MA; Bedford, MA)  
**PAC-3 Missile Seeker:** Boeing (Huntsville, AL)

## INVESTMENT COMPONENT

Maintenance

## ACQUISITION PHASE

- Production and Deployment