

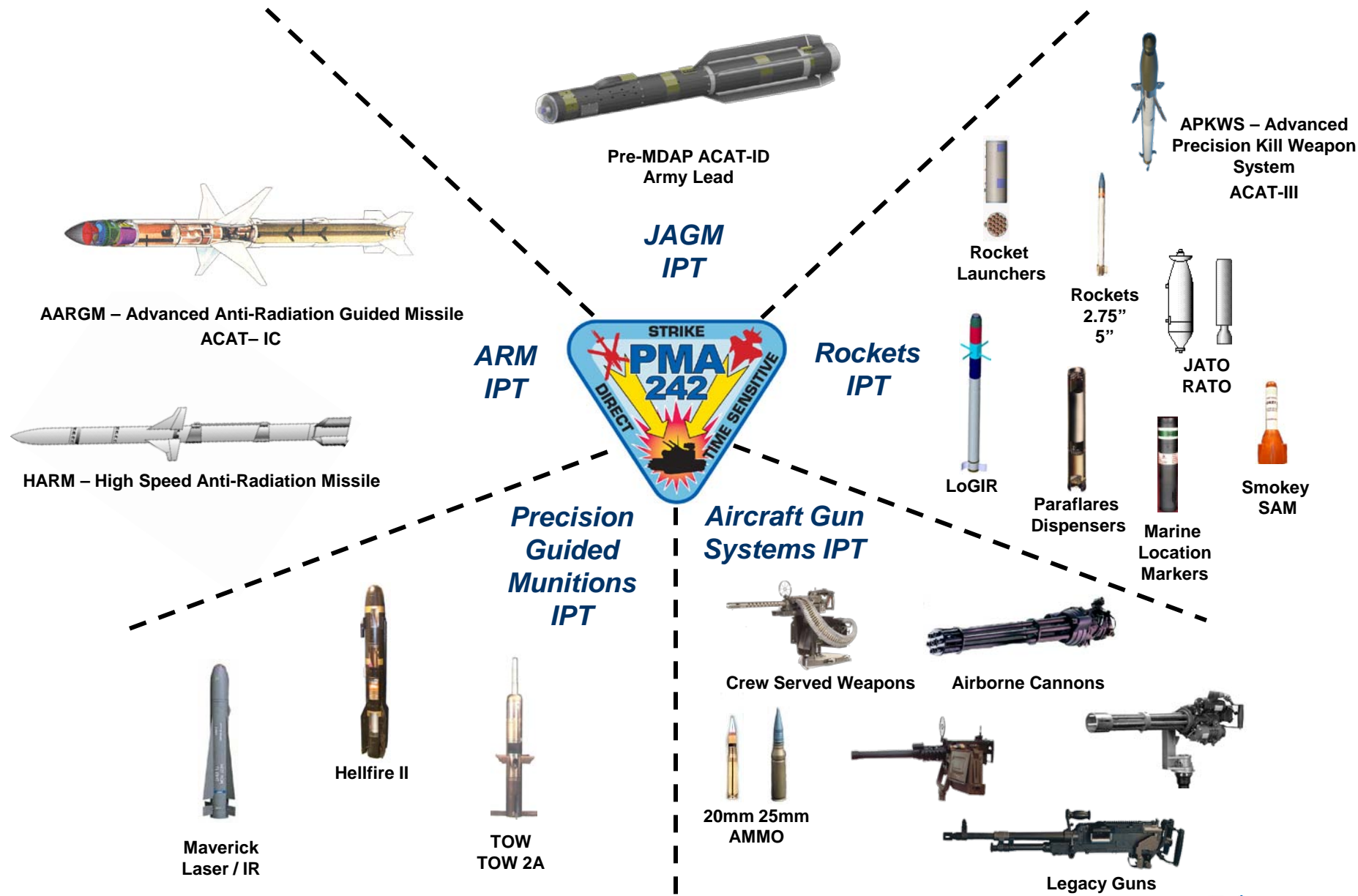


PMA-242
Direct & Time Sensitive Strike
CAPT Brian Corey

Precision Strike Annual Review
21 April 2010



PMA-242 Portfolio



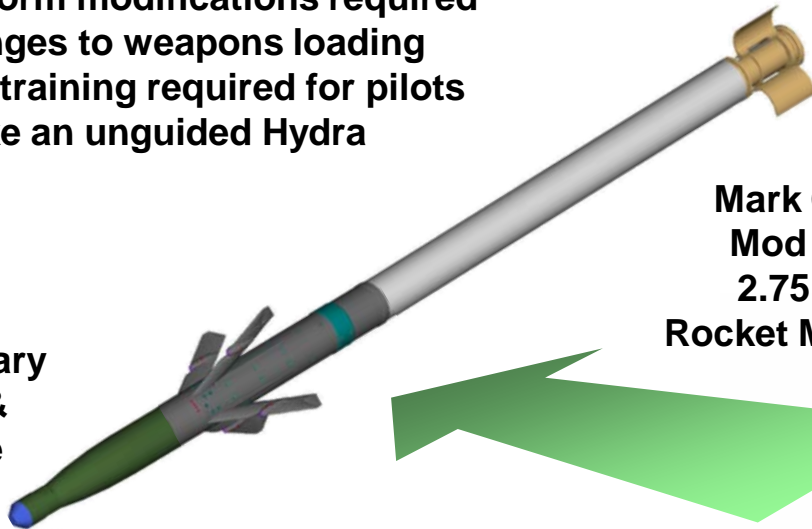


APKWS Components

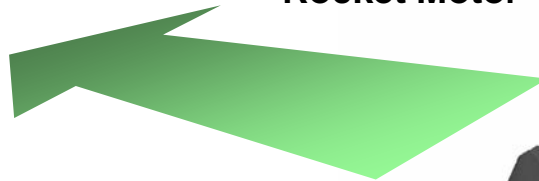
Mid-body Design is *Supportable*

- No platform modifications required
- No changes to weapons loading
- Limited training required for pilots
- Fired like an unguided Hydra

M151 Unitary
Warhead &
M423 Fuze



Mark 66
Mod 4
2.75"
Rocket Motor

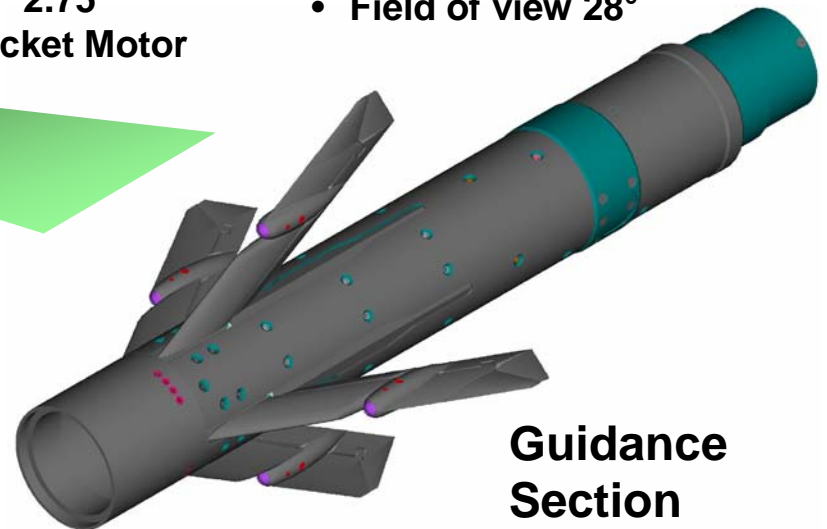


Mid-body Design is *Reliable*

- Optics protected prior to launch from adjacent firings, sand, moisture, etc.
- Wide FOV for broader capture area
 - Field of regard 40°
 - Field of view 28°

No Impact on Warhead Effectiveness

- Warhead does not “fire through” guidance unit



Guidance
Section



Aviation Operational Need

- Precise
- Affordable
- Versatile
- Lethal
- Low Collateral Damage



Unguided Rocket (<1-6 Km)
Area Suppression, Illumination,
Obscuration, Marking



Guided Rocket (1.5-5+ Km)
Precision Engagement, Soft Targets



Hellfire Missile (1-8 Km)
Anti-Armor



Fills the weapons gap for soft and lightly armored targets



JAGM Overview

F/A-18E / F



AH-1Z



AH-64D



SkyWarrior Blk I



MH-60R



Army
Recon /
Attack

Accomplishments / Status

- ACAT 1D Joint Program – Army Lead w/ Navy And USMC
- Two Fixed-Price Incentive Contracts Awarded 9/11 for a 27-month Technology Development
- Phase Culminates in Prototype Test Flights of Raytheon and Lockheed Martin Missiles

Capability

- Provides Line of Sight (LOS) & Beyond LOS
- Precision Point and Fire & Forget Modes
- Replaces Hellfire, Maverick and Air-launched TOW
- Modular Missile Approach Addresses Incremental Requirements
- System ~ 108 Lbs, 7 Inch Dia., 70 Inch Length
- Range: 500 – 16,000 Meters Rotary Wing
2,000 – 28,000 Meters Fixed Wing

Key Events and Dates

- ✓ *Contract Awards(2)* 11 Sept 08
- ✓ *Integrated Baseline Reviews* 15 Dec 08
- ✓ *Program Management Reviews* 2QFY09
- SRR/SFR 4QFY09
- Preliminary Design Review 3QFY10
- Milestone B 1QFY11
- IOC– F/A-18E/F, AH-64D, AH-1Z FY16
- IOC – MH-60R, SkyWarrior FY17



JAGM Requirement

Current

AIR TOW 2A



BASIC HELLFIRE



INTERIM HELLFIRE



HELLFIRE II
(Multiple Variants)



LONGBOW HELLFIRE



MAVERICK (IR)



MAVERICK (SAL)



ROTARY / FIXED WING & UAV
PLATFORMS



Threshold Platforms

Navy: F/A-18E/F, AH-1Z, MH-60R
Army: AH-64D, ER/MP

Objective Platforms

Navy: F/A-18C/D, F-35B/C, AH-1W, AV-8B, MMA
Army: AH-64A

Future

**Objective:
SINGLE MISSILE**



- Addresses JROC Approved Capability Gaps
- Replaces 3 legacy weapons systems
- Provides commonality and interoperability between Services
- Addresses changing OE/Threat
- Approximately 20 lb warhead
- CDD Validated Nov 2007

JAGM Acquisition Strategy



- Army Led ACAT 1D Program
- Three phase effort planned & fully funded
- TD phase (27 month Competition)
 - Contracts Awarded in September 2008
 - Raytheon / Boeing & Lockheed Martin
 - Fixed Price Incentive (Firm Target)
 - **Preliminary Design Review (PDR)**
 - **Prototype ground launches**
 - **F/A-18 flying quality flights**
- EMD phase (48 month)
 - One contractor
 - Critical Design Review
 - DT / OT
- LRIP phase
 - LRIP options to be included in EMD proposals

