37th Armament Symposium

U.S. AIR FORCE

5th Generation Air Armament

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Integrity - Service - Excellence

Overview

- **AAC Acquisition**
- Thoughts for the Future

AAC Commander's Intent

- Air Armament Center will tackle challenges head-on as a team
- The center's major focus areas are:
  - Keep critical weapon acquisition programs moving forward
  - Develop a long-term strategic roadmap for weapons to ensure Team Eglin is prepared to provide critical future warfighting capabilities
  - Successfully bed down the F-35 Integrated Training Center and stand up 7th Special Forces Group Airborne training capability
  - Partner with stakeholders, including local communities, to address airspace and land range access challenges
  - Effectively manage and develop our workforce—properly orient, train, develop, mentor, and recognize our employees
  - Improve military housing through privatization
  - Energize the relationship we enjoy with the local community

Weapon Divisions

Acquisition organizations within the Directorate dedicated to fulfilling the needs of the warfighter.

Air Dominance

Direct Attack

Long Range Systems

Miniature Munitions

Advanced Programs

Test and Training

Air Dominance Division

Ensuring the warfighter achieves and maintains air superiority.

Lethal SEAD/DEAD

AMRAAM

AMRAAM FMS

AIM-9X

Advanced Medium Range Air-to-Air Missile (AMRAAM)

- Premier BVR missile to counter existing/emerging air vehicle threats, operating at high or low altitude and having electronic attack (EA) capabilities
  - Enables Air Superiority/Dominance
  - ACAT IC Air Force led, Joint Program (Navy)
  - Medium Range Radar Guided, All-Weather, Launch and Leave, Air Superiority Missile
  - Kills Advanced Airborne Threats Employing EA
  - Multiple Kills Per Engagement
  - F/A-18, F-15, F-16, F-22A, F-35
  - 35 FMS Customers Worldwide

Direct Attack Division

Delivering devastating effects…under time-sensitive conditions.

JDAM

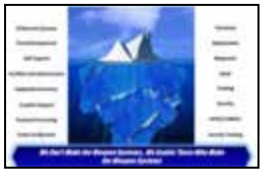
Fuzes

MOP

B-61 LEP

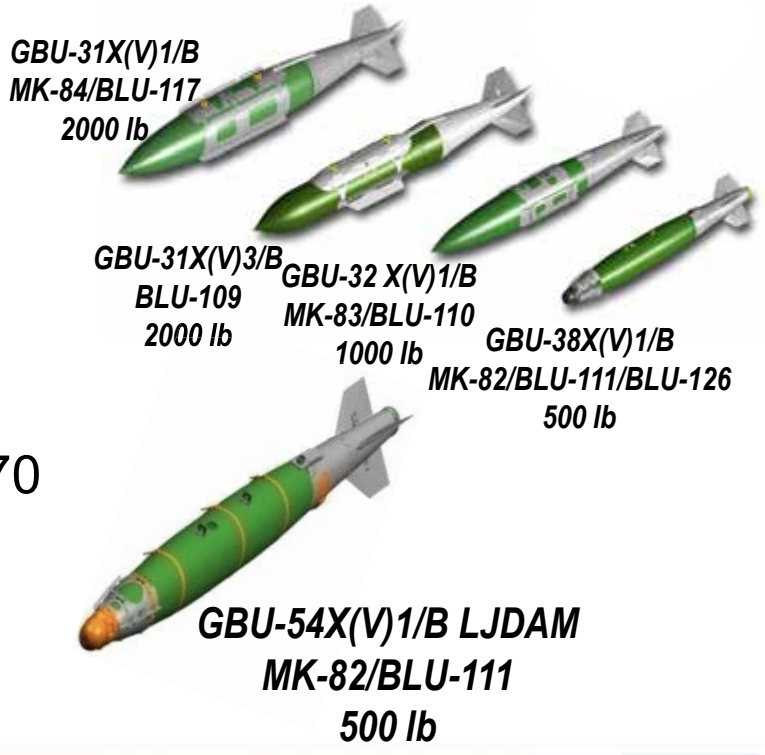
FMS

Ops Support



Joint Direct Attack Munition (JDAM) & Laser JDAM

- JDAM
  - Global Positioning System (GPS) aided Inertial navigation System (INS) tail kit
  - Accurate <5 meters, in-flight retargeting
  - Autonomous and adverse weather
  - Over 32,000 combat-proven



- Laser JDAM
  - Quick Reaction Capability program
  - Successfully employed against stationary/moving targets (15 mph – 70 mph)

Consistently Accurate, Reliable, & Affordable Guidance Kit
The Warfighter's "Air-to-Ground Weapon of Choice"

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Long Range Systems Division

Providing prompt and long-range capabilities which can travel great distances and strike deep into an enemy's territory with crippling effects.

JASSM & JASSM

MALD

FMS

Joint Air-to-Surface Standoff Missile (JASSM)
JASSM – Extended Range (ER)

- JASSM

AGM-158A

  - Conventional air-to-surface cruise missile
  - Precise, autonomous, low observable
  - Standoff capability (> 200nm)
  - 1,000 lb penetrator/blast fragment warhead
  - GPS/INS guidance & IIR terminal seeker
  - Baseline IOC: B-1, B-2, B-52, and F-16
  - ACAT Level: 1D
  - Prime Contractor: Lockheed Missiles and Fire Control (LMMFC), Orlando, FL
  - Future Milestones: Baseline F-15E IOC: 1QFY12

- JASSM ER
  - Standoff capability (> 500nm)
  - Extended Range IOC: B-1

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Miniature Munitions Division

Enhancing the precision and controlling lethality of miniature bombs

SDB I

SDB II

Small Diameter Bomb II (SDB II)

- SDB II
  - Joint-interest ACAT ID Air Force, DoN program with AF lead
  - Attack moving targets in adverse weather with standoff capability outside of point defenses
  - Three Attack Modes:
    - Normal Attack (Primary New Capability) against moving targets
    - Coordinate Attack
    - Semi-Active Laser
  - 250 lb class weapon
  - Threshold A/C: F-15E (AF), F-35B (USMC), F-35C (USN)
    - Full capability on F-15E: FY16
  - Total planned AF/Navy buy: 17,000
  - Contractor: Raytheon Missile Systems

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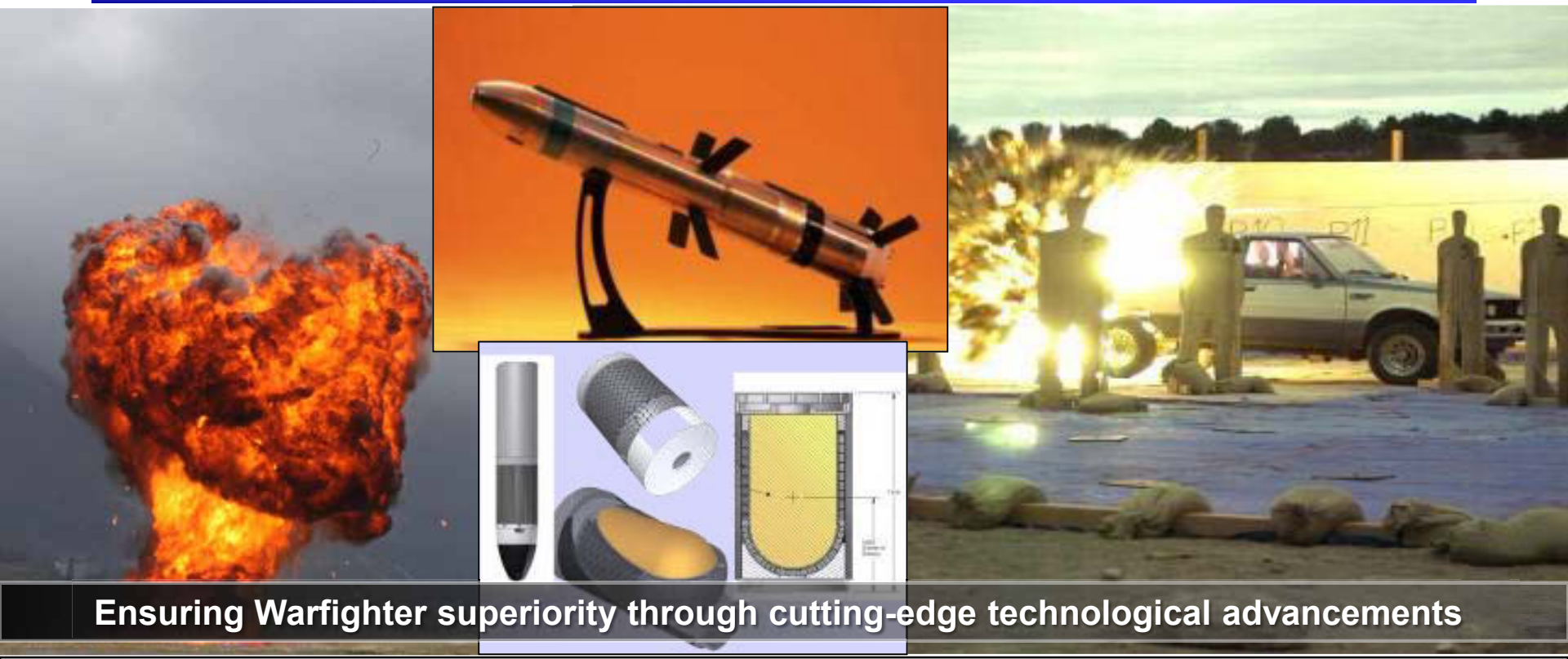
Advanced Programs Division



Ensuring Warfighter superiority through cutting-edge technological advancements

Systems Interface and Integration

Special Programs/Projects

Advanced Projects

Bomb Live Unit (BLU) -129/B Precision Lethality MK-82

- BLU-129/B
  - Joint Quick Reaction Capability program in support of USCENTCOM
  - JUON for Very Low Collateral Damage Weapon
    - Carbon-fiber case for low collateral damage
    - Multi-Phase Blast Explosive for high lethality
    - Matches Mk-82 mass properties
    - Simple integration with inventory guidance kits and aircraft
  - Sept 2011 Fielding Recommendation
  - JDAM and LJDAM guidance kits on:
    - A-10, F-15E, and F-16 aircraft
  - Follow-on integrations: AV-8B, F-18A+/C/D/E/F, B-1 & MQ-9

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Test and Training Division

Ensuring warfighter proficiency through unparalleled training systems and cutting-edge targets

Aerial Target Systems

CRIIS

Range

FMS

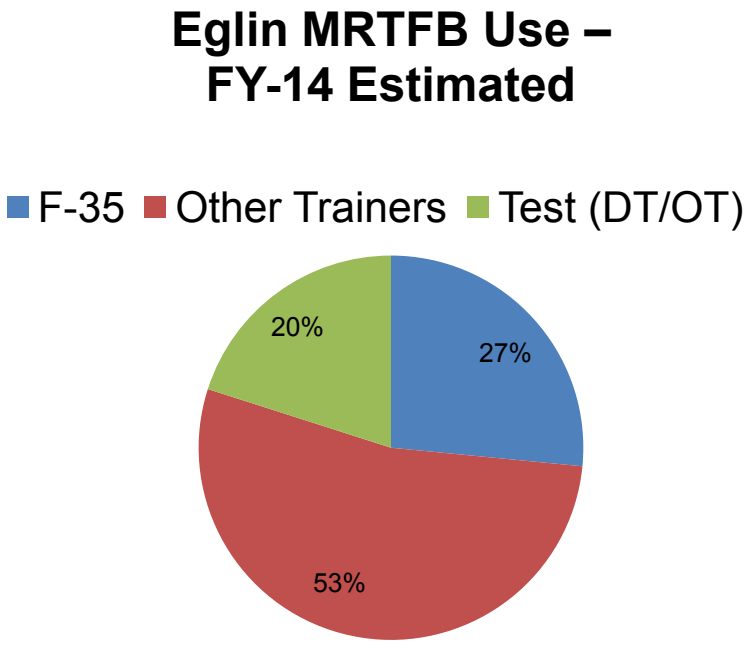
Air Force Subscale Aerial Target (AFSAT)

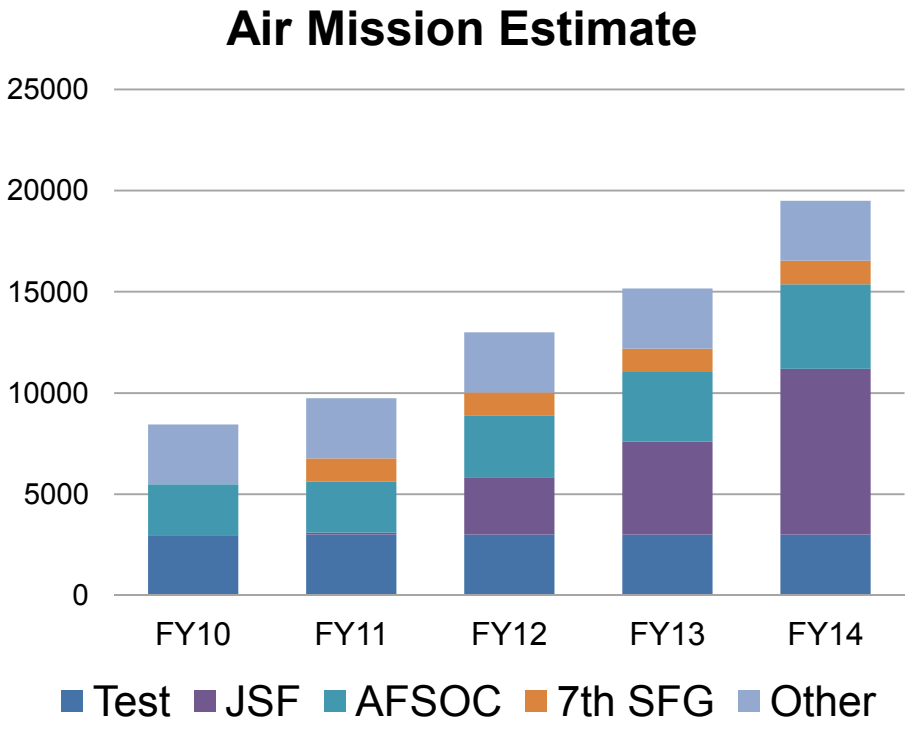
- AFSAT
  - An Affordable, All Composite Airframe Subscale Target That Provides Test/Training Capability on Air Force Ranges
  - Operates via Ground-Based Target Control System
  - Satisfies Title 10 “live fire/lethality” Requirements
  - Performance Characteristics:
    - Max Speed: 0.92 Mach (Subsonic)
    - Max Launch Weight: 2050 lb
    - Operational Altitudes: 50 ft - 50,000 ft MSL
    - 3 x More Presentation Than Legacy Subscale Target
  - Prime Contractor: Composite Engineering, Inc. (CEi)
  - Post-Milestone C; FRP: Dec 2007
  - Projected Procurement 800 Targets (224 Delivered to Date)

Overview

- AAC Acquisition
- **Thoughts for the Future**

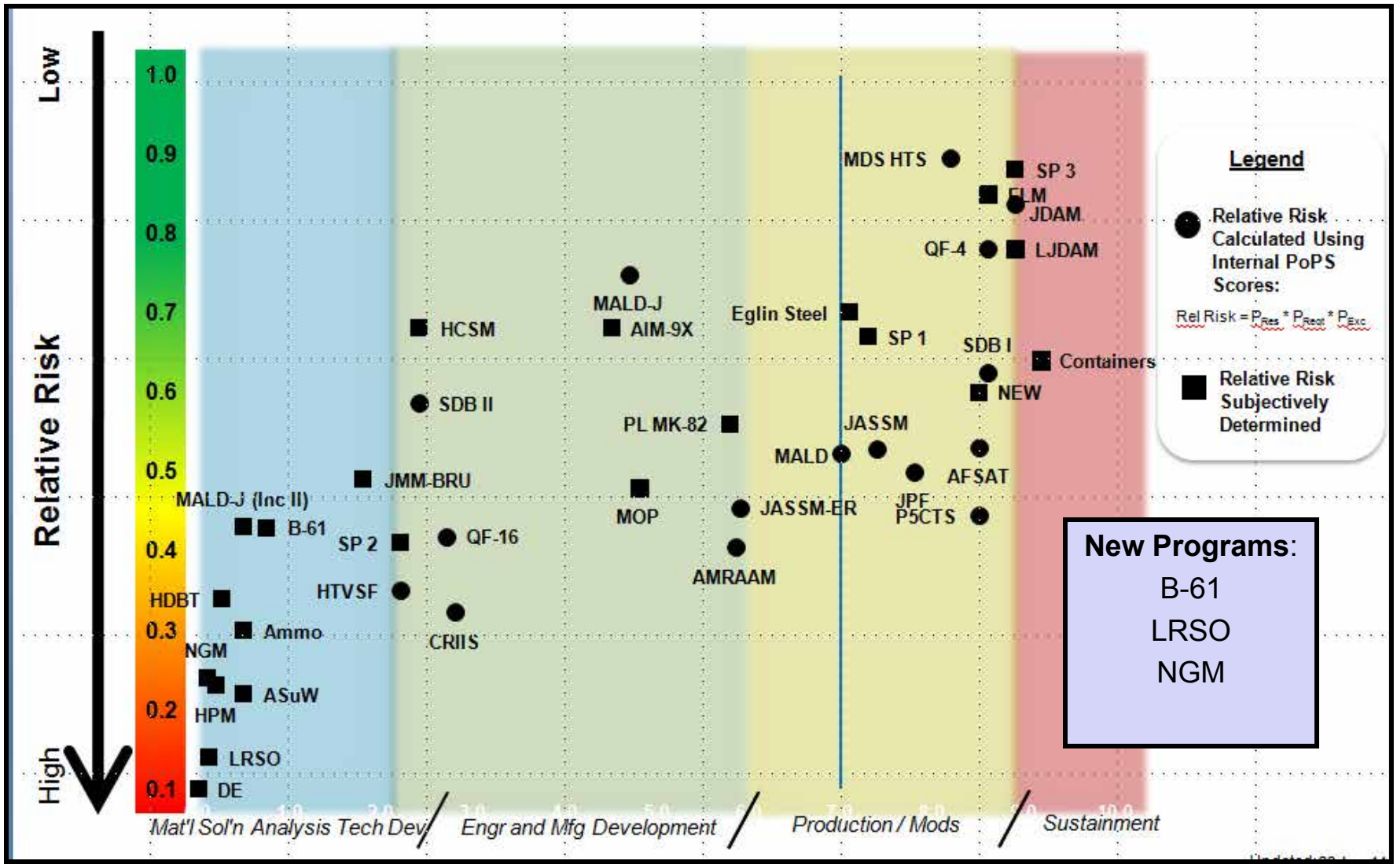
Eglin Ranges 3-5 Year Outlook





- Moving from a *Test and Training Range* to a *Training and Test Range*
- We are not doing any less DT/OT – just that much more training
- Expect over a 30% increase in Range use over the 2.5 years

Acquisition Programs
3-5 Year Outlook



Final Thoughts

- Declining Budgets Will Present Significant Opportunities
- Rapidly Changing Defense Landscape
- Programs That Can't Keep Up Will Not Survive
- Do What Makes Sense—Not Just What the AFI's Dictate
- Expect More Mil/Civ Force Structure Changes
- Above All—Keep Doing What You Do Well

QUESTIONS?