

Air Armament Center

*Deliver War-Winning Technology, Acquisition, Test, Sustainment...
Expeditionary Capabilities to the Warfighter*



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U.S. AIR FORCE

Integrity - Service - Excellence



Outline

- Air Armament Center
 - To obtain a quick overview of the missions and capabilities of the Air Armament Center (AAC)
- Future Roadmap
 - Provide a future vision for armament development





The Heart and Soul of the Air Force is Range and Payload

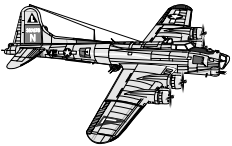
– Gen Moseley at 2006 Blue Summit

The Air Armament Center does the
Payload that puts the “Force” in Air Force



Evolution of Precision

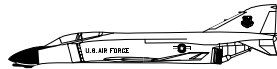
1943



WWII

1500 B-17 sorties
9000 bombs (250#)
3300 ft CEP
One 60' x 100' target

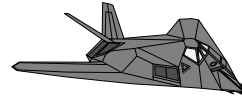
1970



Vietnam

30 F-4 sorties
176 bombs (500#)
400 ft CEP
One target

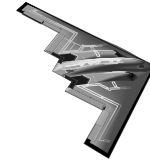
1991



Desert Storm

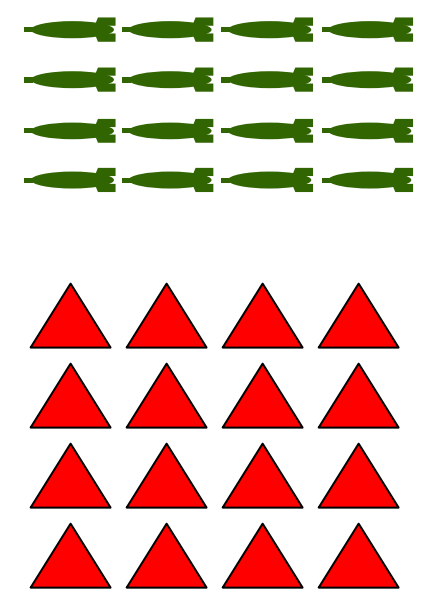
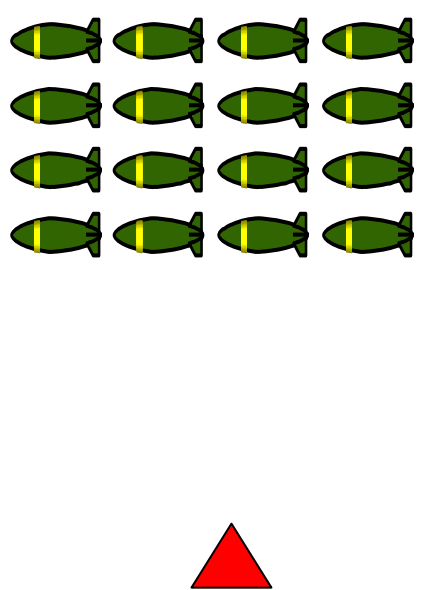
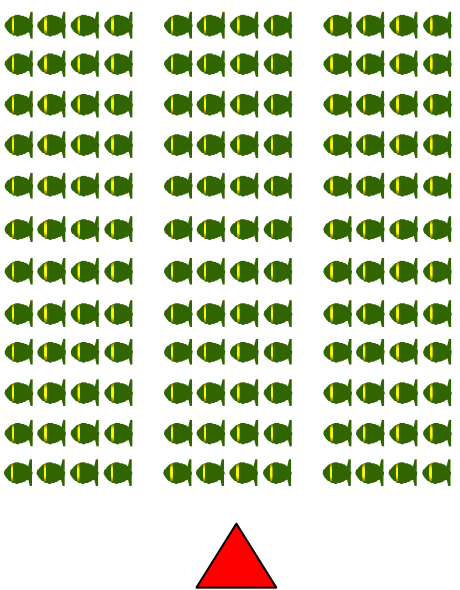
1 F-117 sortie
2 bombs (2000#)
10 ft CEP
2 targets per sortie

2004



OAF/OEF/OIF

1 B-2 sortie
16 bombs (2000#)
7 ft CEP
16 Targets per Pass





New Platforms, Same Weapons

F-16



F-35



F-22



JDAM



AMRAAM



SDB



Generations of Weapons

- Dumb gravity bombs
- Machine guns



c.1945-1960

- First Guided Air-to-Air Missiles



c.1960-1970

- First Precision Munitions
- Laser Guided Bombs



c.1970-1990

- Improved A-A Probability of Kill
- Improved Precision with All-Weather GPS Guidance



c.1990-2006



Capabilities



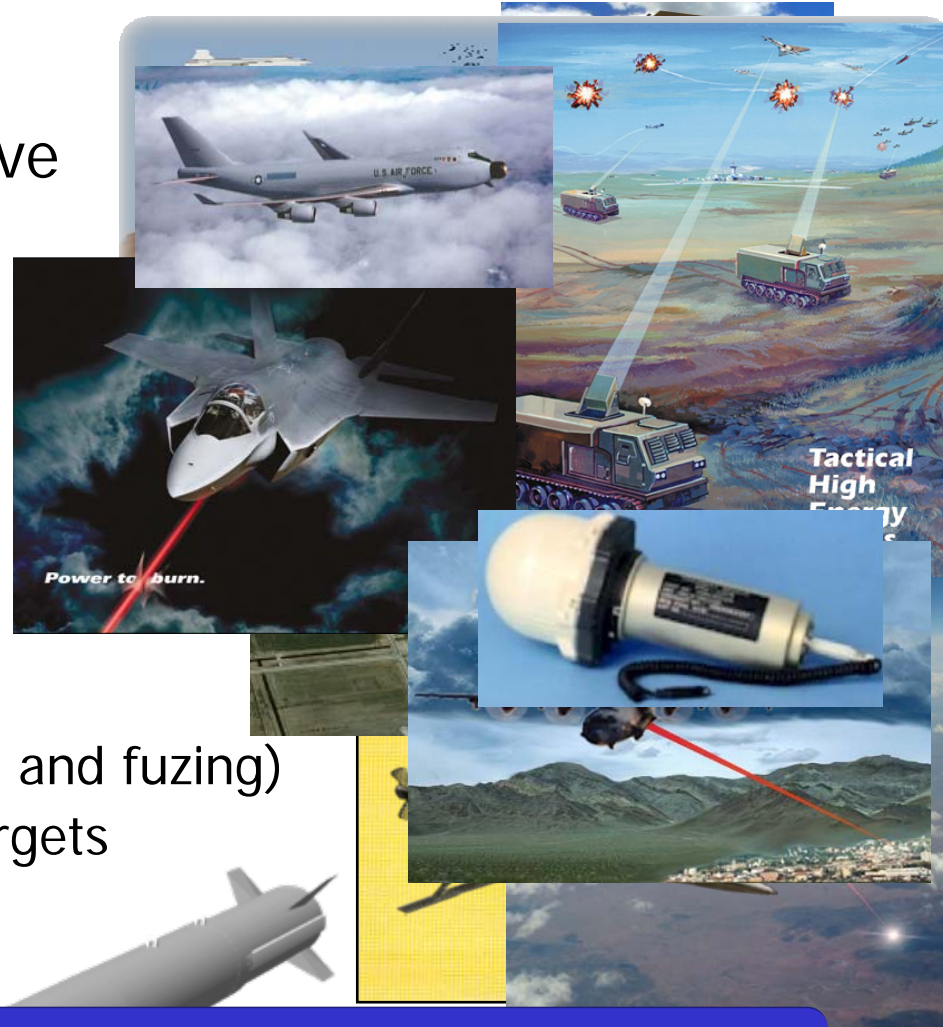
What Are Next Generation Weapon Effects?





Next Generation Weapons

- Desired Effects
 - Non-lethal / Non-destructive
 - Low collateral damage
 - Specialized Effects
 - Chem/Bio agent defeat
 - Hard deeply buried targets
 - Rapid response
 - Flexibility
 - Integrated into network
 - Scalable / Selectable (yield and fuzing)
 - Ability to engage moving targets
 - Perpetual Armament



We do not yet have all the answers



War-winning Capabilities ...

***Tomorrow's Warfighting
Solutions Begin Today***

... On Time, On Cost

