Headquarters U.S. Air Force

Integrity - Service - Excellence

Transforming Precision Strike

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Our Theme…

Balancing Precision Strike for the Joint Force Commander across Asymmetric Battlefields
By definition, it is difficult to characterize this fight.

We can predict some of its attributes:

- Fleeting and mobile targets
- Difficult combat ID: red, blue and gray
- Specific, strategic high-value “targets”
  - National Command Authority participation?
- Wide range of terrain
- Low collateral damage tolerance
- Anti-access scenarios: political, geographic, and forces
- Time-sensitive effects
- Low and high technology: IED’s to cruise missiles
- Unpredictable time, place or tempo
Balancing…

- Are we out of balance?
- The asymmetric threat demands we continuously assess
- Within precision strike, balancing:
  - Kinetic versus non-kinetic
  - Cost versus capability
  - Long range versus short range
  - Joint versus service
  - Weapons versus systems to facilitate weapons and effect
  - Persistence versus responsiveness

*Technology* has changed, and continues to change, the definition of *precision*
Getting to the EFFECT

- National Military Strategy and the Joint Force Commanders set objective
- Precision strike was laser guided bombs and JDAM
  - Now it encompasses a wide range of technologies
- Given the asymmetric battlefield, determine the effect required
  - Integrated Capabilities Review and Risk Assessment (I-CRRA)
- USAF CONOPS lead us through the effects to the capability
  - Global Strike
  - Global Precision Attack
  - Global Mobility
  - Homeland Security
  - Space and C4ISR
  - Nuclear Response
Drives us to…

- Effects-based planning (not necessarily destruction)
  …Swiftly defeat the enemy, survive, and get ready to do it again
- Platforms and systems to deliver the effect
  - survivable, integrated, global, persistent
- Combat Identification—instantaneous and infallible
- Seamless machine-to-machine—data, communications, decision
  - Remove man from the loop where possible
- Kinetic and non-kinetic precision
- And systems to facilitate:
  - Networks and datalinks, data fusion and decision aids, sensors and seekers
Technology needs

- **Networked warfare:**
  - Data links—bandwidth and speed
  - Integrated inputs and tailored outputs, automated activity
  - Automated decision making
  - Combat identification—operator and weapon

- **Kinetic solutions**
  - *Weapons of Mass Destruction*—protection from Chemical Biological Radiological Nuclear Explosive (CBRNE)
  - All-weather, self-track and guide, moving targets, self-BDA

- **Non-kinetic solutions**—still “precise”
  - Directed Energy
  - Information Operations
Effects...in progress

- Strike inside enemies decision cycle, anywhere in the world
  - Link 16
  - Advanced Tactical Targeting Technology (AT3) and Tactical Targeting Network Technology (TTNT)
  - Weapons data link
Effects...in progress

- Deny sanctuary to the enemy, Deny C4ISR
  - Blue force tracker
  - E-10A
  - Information Operations
Effects...in progress

- Neutralize mobile targets
  - Small Diameter Bomb Increment II
  - AESA Radars
  - JSTARS
Effects...in progress

- Penetrate and defeat next generation anti-access systems
  - F/A-22, JSF, J-UCAS
  - Self-defense countermeasures
  - Airborne Electronic Attack
  - Advanced HARM, AIM-120D
The Way Ahead…
Transformation In Progress

GLOBAL PRECISION STRIKE

FROM…

- SMART BOMB/GUIDED BULLETs
- 90% Pk BY 1 AIRCRAFT STANDING OFF
- E-10A—PERSISTENCE AND PRECISION
- KINETIC ENERGY (LONG RANGE)
- EVERY BOMB A UAV
- INTEGRATED WEAPONS SYSTEMS

TO…

- ALL WEATHER, DAY OR NIGHT, STAND-OFF
- LONG RANGE STRIKE—GLOBAL REACH
- SHOOTERS AS SENSORS, SENSORS AS SHOOTERS
- DIRECTED ENERGY
- SERVICE 20-30 TARGETS/SORTIE
- AUTONOMOUS EXECUTION -CONUS BASED
THANKS!

- For the Precision Strike Association
  Thank you for your professionalism
  ...your commitment
  ....and your focus on this subject

- My pledge…
  Lets work this hard together!
See First
Understand First
Act First
AIR AND SPACE OPERATIONS