

Headquarters Air Combat Command

Adaptive Airpower in the Global War on Terrorism



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Talking Points About Airpower

- CAS is a Mission not an Airplane
- Air/Ground Innovation = High Tech + Low Tech
- Distributed Forward Air Control
- The Digital and Analog worlds are coming together
- CAS is still the hardest thing we do in joint war fighting
- General Vessey's challenge to airmen
- Shared situational awareness: cockpit to foxhole
- Challenges



CAS is a Mission not an Airplane

- A-10, F-16, F-15E, F-117, B-1, B-2, B-52, AC-130
- F-14, F-18, AV-8
- AH-1, AH-64, AH-6J, MH-53
- All Services and Allies









Air/Ground Innovation: (High Tech + Low Tech) SOF and Airpower



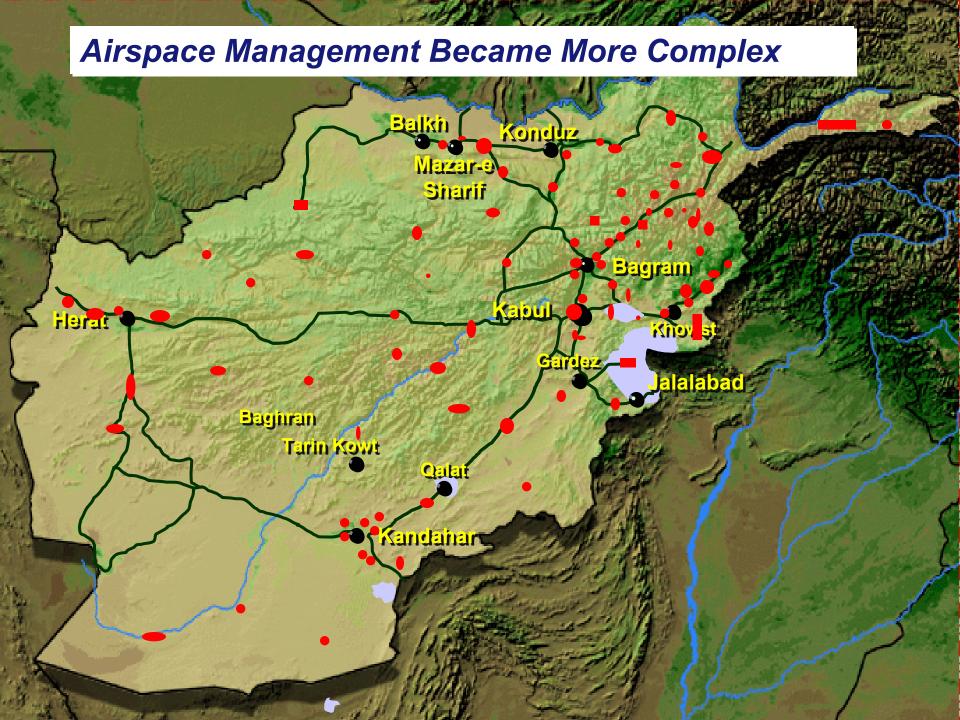


Enduring Freedom "CAS" and Ground-Directed Interdiction

- Enemy Forces "Taliban" in pockets across Afghanistan
- 99 to 1 --ratio--(soft) targets compared to fixed (structural)
- US friendly disposition minimal (SOF war)
- Non-linear, non-contiguous battlefield
- Air distances (significant)
- Almost no airspace restrictions (in the beginning)
- Command and control environment
 - Very simple at first
 - Increasingly became more complex
 - Very restrictive ROE (Restricted Tgt List)



Initial Operations had Few Airspace Management Restrictions, But as Operations Progressed... Konduz Mazar-e firent Bagram Kabul Herat Jalala pad Khowst <u>Baghran</u> Tarin Kowt Qulu Kandahar





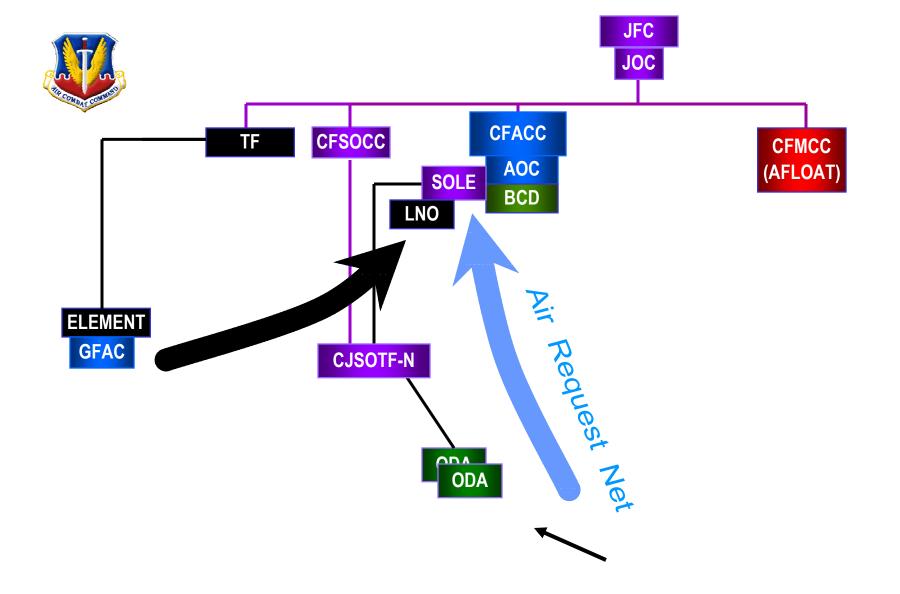
Distributed Forward Air Control

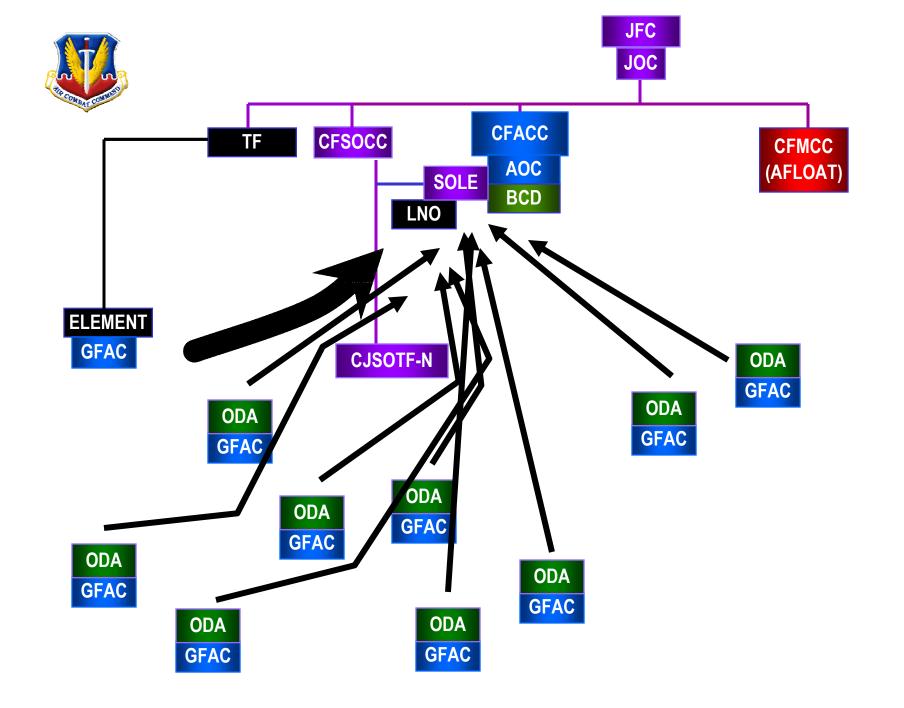
Attached USAF ground forward air controllers with SOF

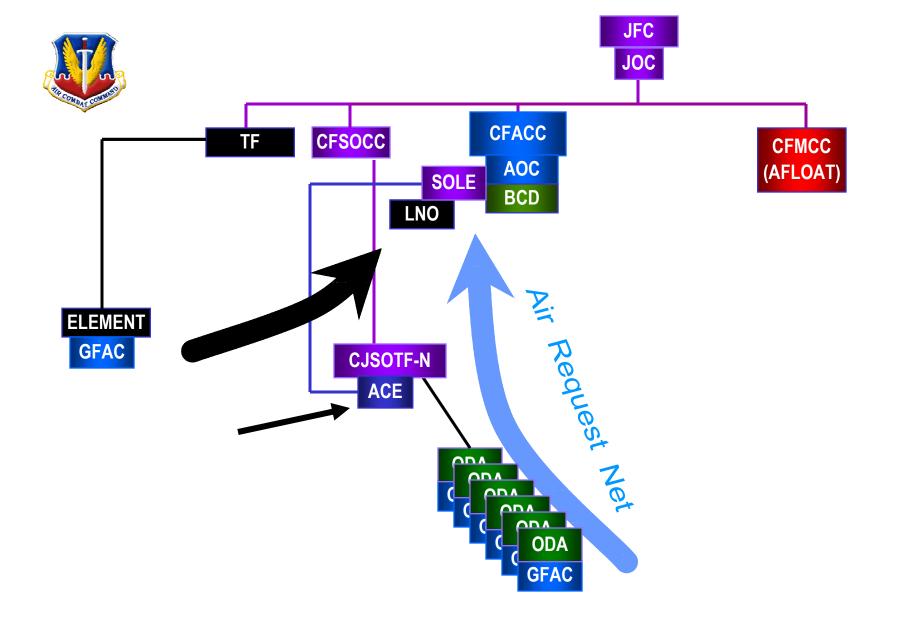
Augmented airborne forward air control

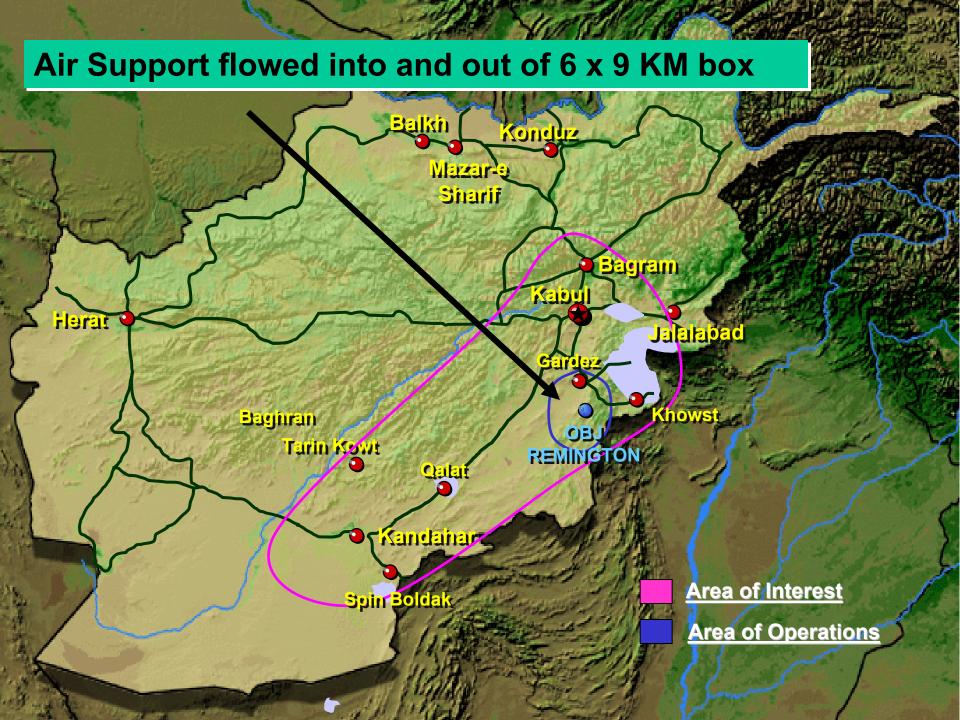
Extensive use of JSTARS

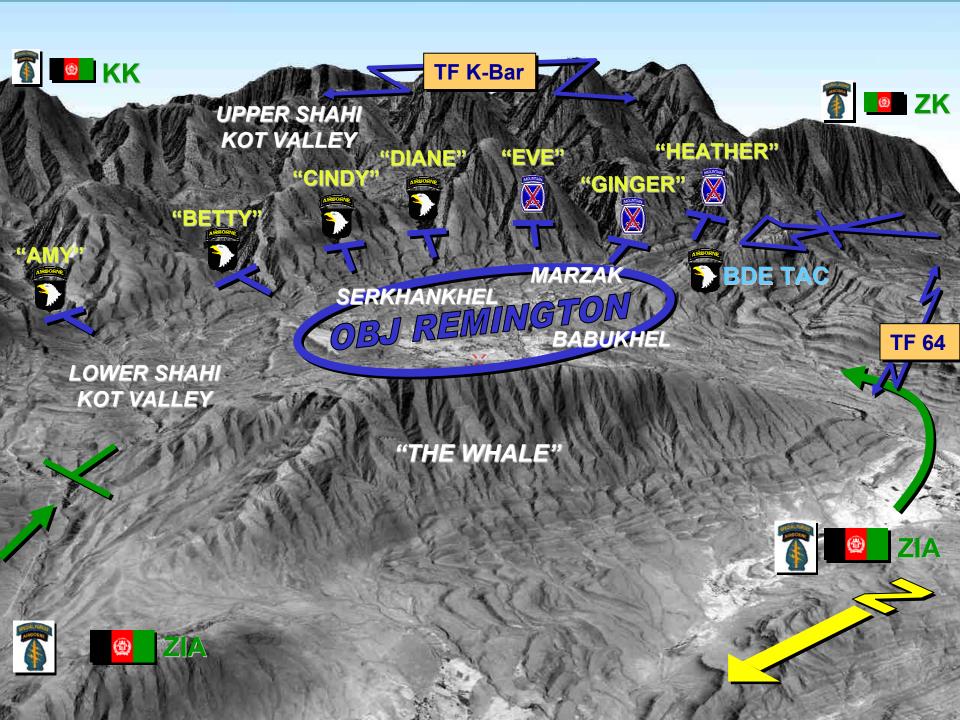
Developed intermediate air control for SOF

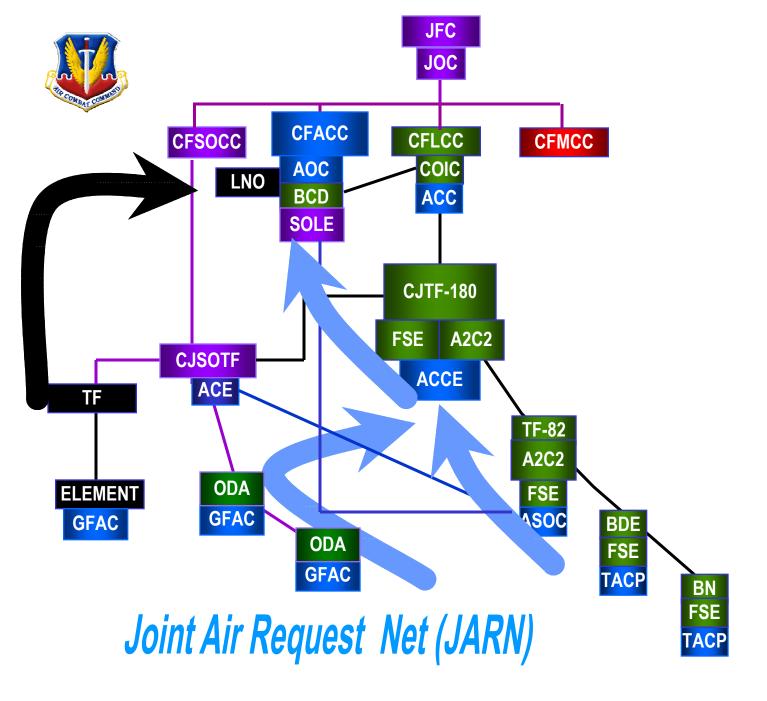














Iraqi Freedom— A Five Front War



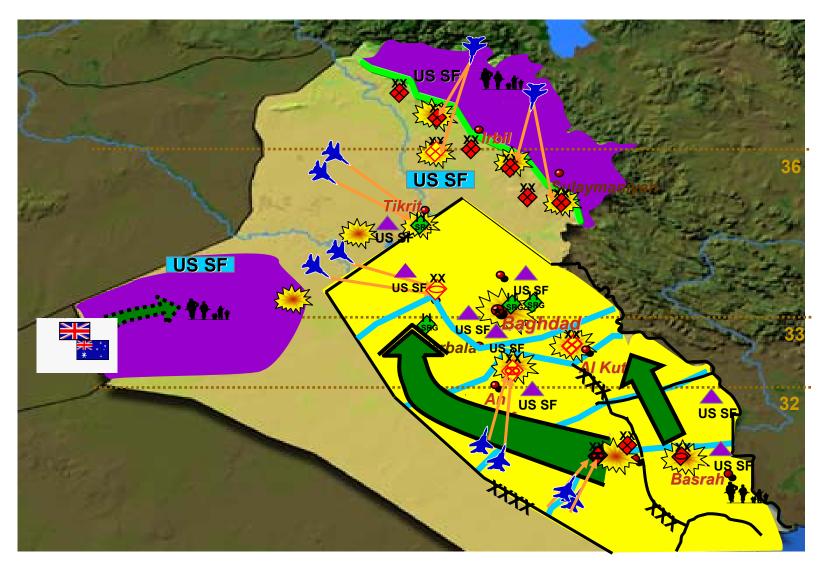
One Team – One Fight

"I don't want to say that it would be a mistake for the services to engage in service-centric lessons learned. But to some extent I will say it. This was not a war fought by the Army or the Navy or the Air Force...or the Marines. It was a war that's been fought by joint forces under excellent leadership"

-- Defense Secretary Donald H. Rumsfeld, Pentagon News Briefing, April 15, 2003



Two in the South, the West, North and Urban Baghdad





Digital and Analog Perspectives

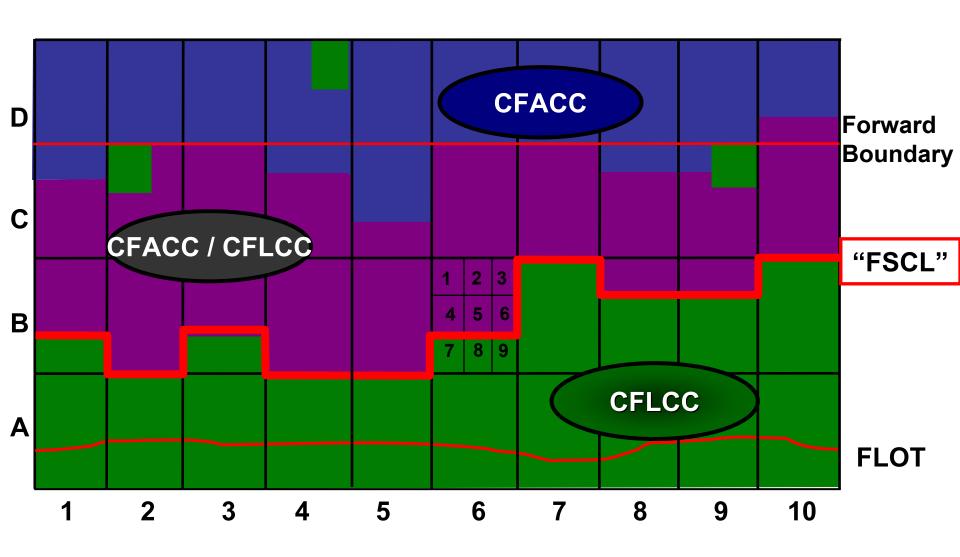


V Corps Ground space Perspective (Analog)

CENTCOM EFFECTS CENTCOM FWD BNDY XXXX SHAPING CFLCC EFFECTS XXX **FSCL CORPS SHAPING DIV FWD BNDY CORPS DIV CAS EFFECTS FLOT Type 1/2/3** XXX **CFLCC REAR**

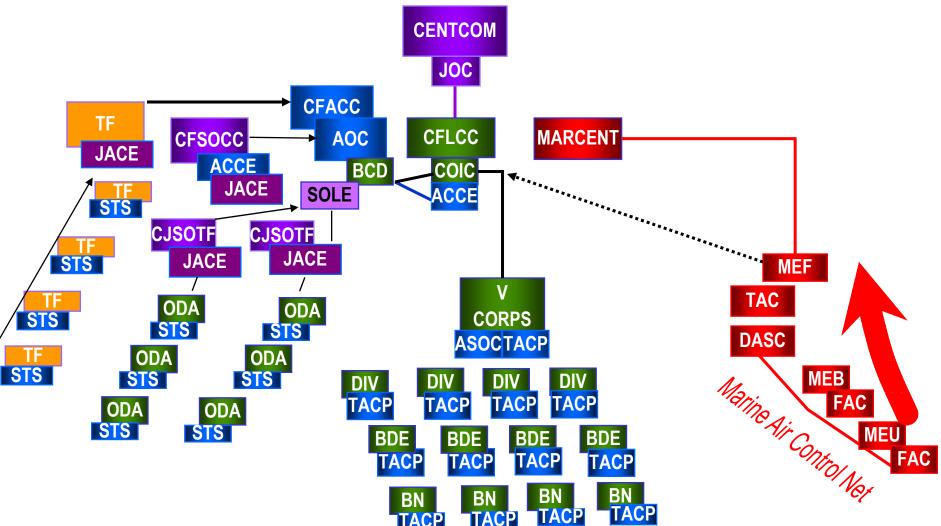


CFACC Battle space Perspective (Digital)





Theater Air Control Air-Ground System Elements



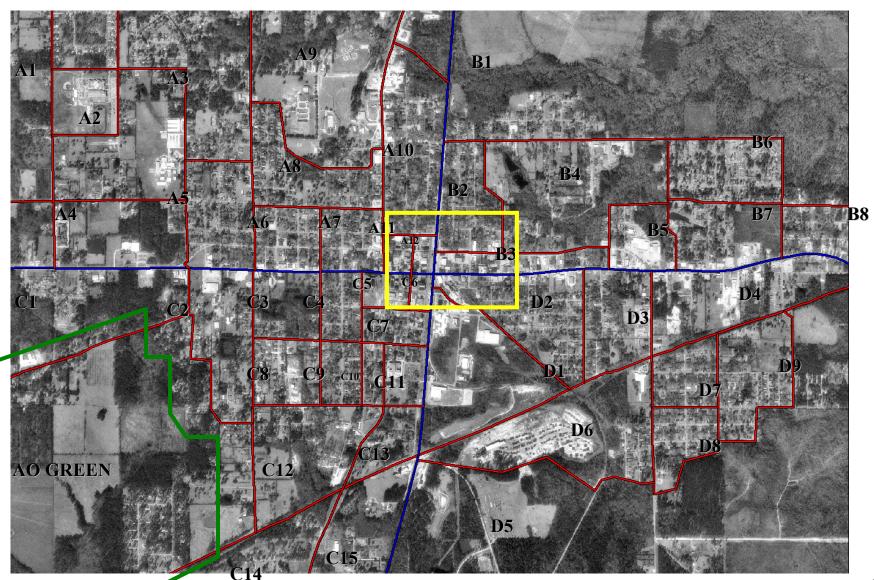


Airpower Effectiveness Across the Range of Combat Environments





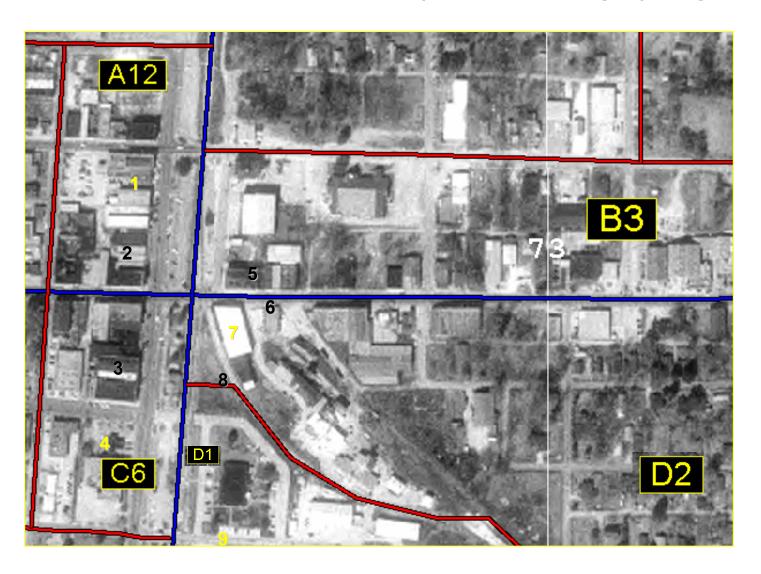
Finding It





Finding It

(blown up imagery of grid box)

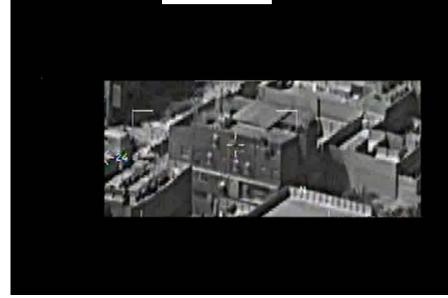




AIRPOWER - THE KILL CHAIN

- ISSUE: SNIPER TAKING TOLL ON U.S. FORCES IN NAJAF; MARINE MGYSGT KILLED MINUTES EARLIER
- BACKGROUND: DENSE URBAN ENVIRONMENT, COLLATERAL DAMAGE LIMITED OPTIONS
- ACTION: RAVAGE 30 ENGAGED SNIPER WITH ONE HELLFIRE
- IMPACT: F2T2EA FROM A SINGLE PLATFORM





Sniper in Second Floor Window HELLFIRE Laser-Guided Missile





AIRPOWER - PERSISTENT

- ISSUE: PERSISTENT SURVEILLANCE LOCATES ZARQAWI ASSOCIATES
- BACKGROUND: PREDATOR PROVIDES ABILITY TO MAINTAIN CONSTANT SURVEILLANCE
- ACTION: RAPID RETARGETING REVISED DMPI PASSED IN-FLIGHT TO STRIKE EAGLES; TGT STRUCK 3 MINS LATER
- IMPACT: ~12 TERRORISTS KIA; INITIATED SERIES OF STRIKES ON AMZ NETWORK IN FALLUJAH











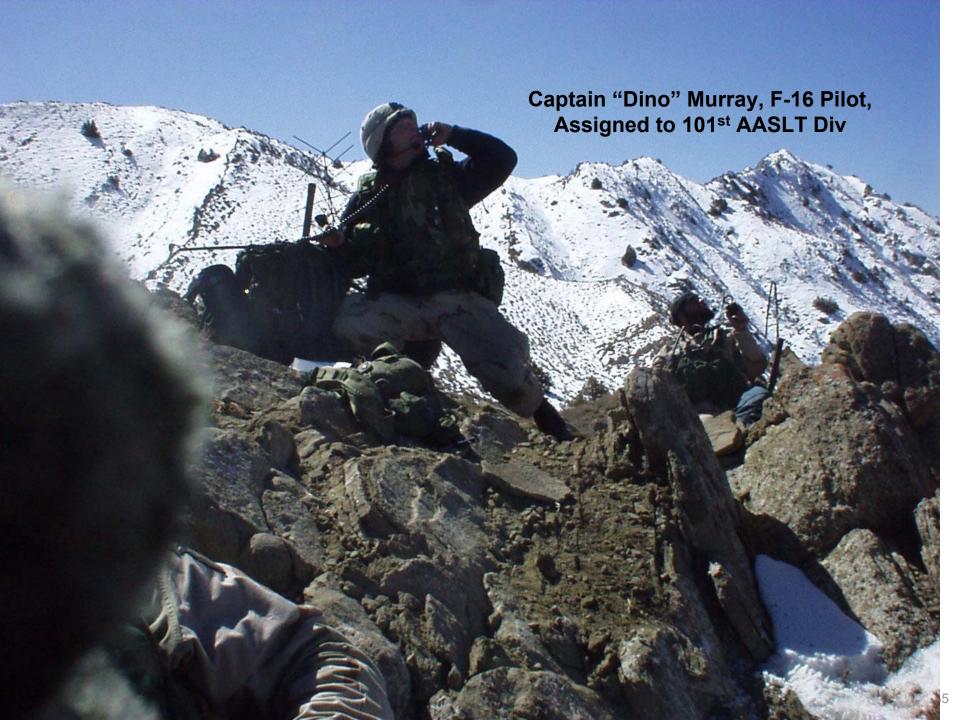
Airpower Effectiveness Across the Range of Combat Environments





The Forward Air Controller





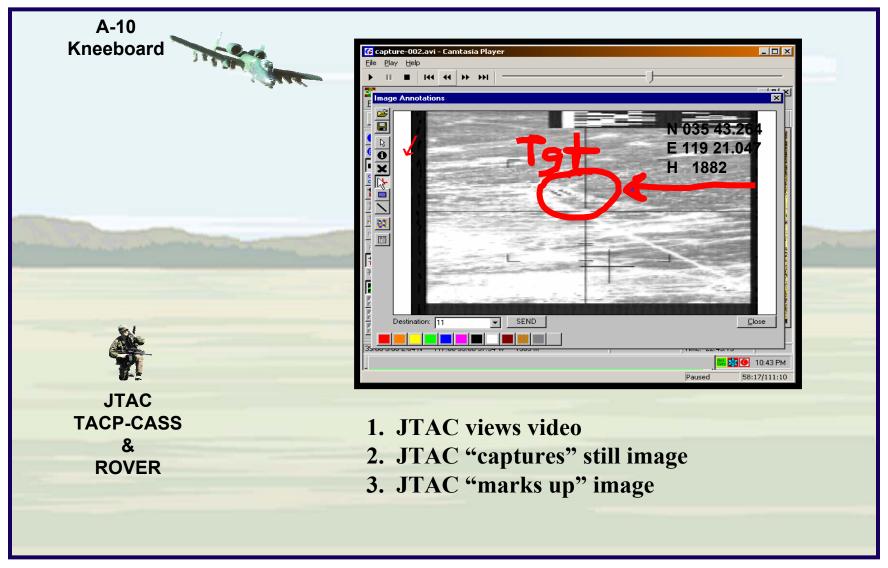


Advances and Innovations: New Tech/Low Tech



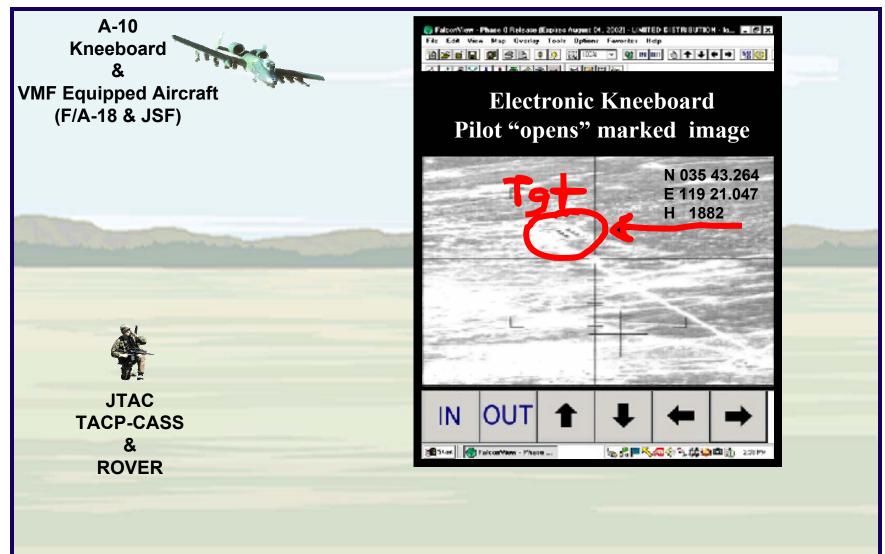


"John Madden" Video Imagery





"John Madden" Video Imagery









Future of Air /Ground Collaboration





Light Infantry Battalion





Airborne Battalion





Mech/Armor



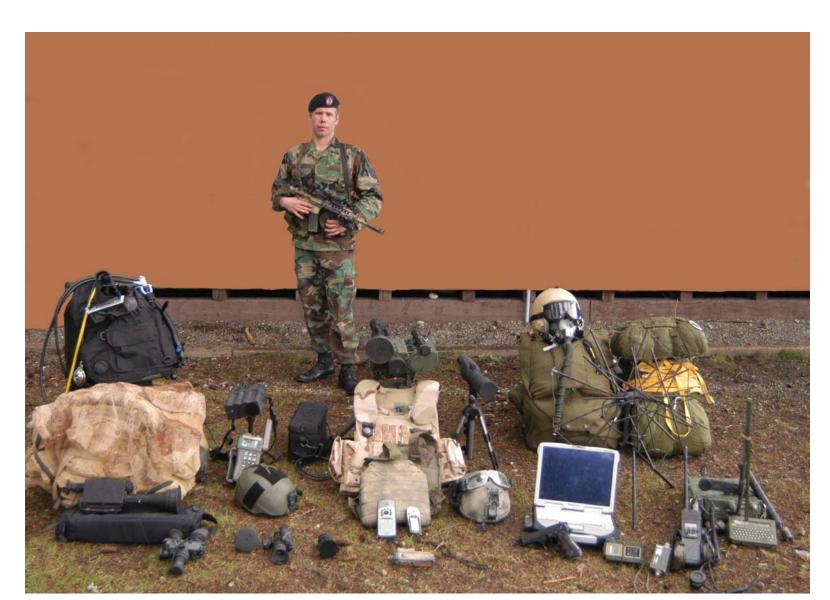


Stryker Brigade





Special Forces TACP





Ranger TACP





Challenges

Airspace

Future Aircraft

Combat ID

Frequency Bandwidth

Urban Enemy Asymmetric Advantage

