

COALITION AIR OPERATIONS IN OPERATIONS ENDURING FREEDOM AND IRAQI FREEDOM

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OEF/OIF Timeline



- **OEF Campaign Start: 7 Oct 2001**
- Initial SOF Entry AFG: 19 Oct 2001
- Mazar-e-Sharif Capture: 9 Nov 2001
- Kabul Capture: 13 Nov 2001
- Taliban Regime End: 18 Dec 2001
- Operation Anaconda: 2 March – 18 March 2002
- **OIF Initiation: 19 March 2003**
- Major Air Strikes Initiated in Iraq: 21 March 03
- Baghdad Capture/Regime Ends: 9 April 03
- Major Military Operations End OIF: 14 April 03
- Major Combat Operations End OEF: May 2003



- **Participating Countries: 50**
- **Countries providing aircraft: 20**
 - Australia, Belgium, Canada, Czech Republic, Denmark, Germany, France, Greece, Italy, Netherlands, New Zealand, Norway, Poland, Portugal, Republic of Korea, Romania, Spain, Sweden, Turkey, UK
- **Aircraft: 18 Different types; over 100 airframes**
 - P-3, F/A-18, C-130, KC 135, A-310, CC-150, CP-140, CC-130, TU-154, F-16, C-60, Mirage, Atlantique, B-707, AN-124, IL-76, KDC-10, MIG-21
- **Number of Coalition Personnel (Over 3000)**

Note: Reflect OEF-AFG and OEF-HOA ops

OEF Challenge: Support Indigenous Forces



- **Eliminate Taliban air threat**
- **Protect coalition special forces and Northern Alliance**
- **Increase Northern Alliance effectiveness**
- **Surveillance & Reconnaissance**
- **Mobility & Logistics**

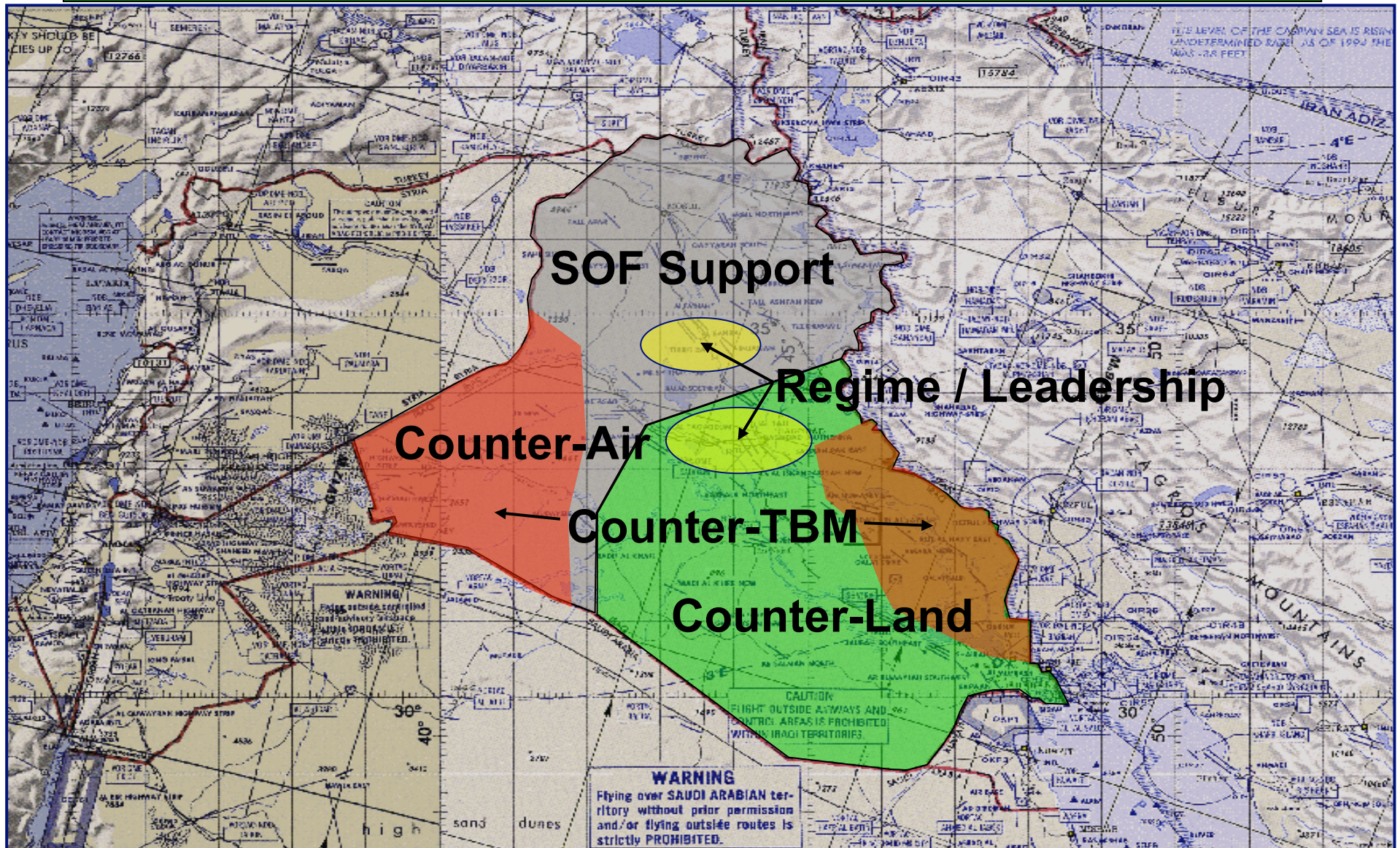




- **Participating Countries: 66**
 - 49 public support, 11 private support, 6 non-coalition support
- **Number of Personnel: 42,987**
 - British, Australian, and others
- **Number of Aircraft: 138**
 - Fighters, C2, Tankers, ISR, Sp Ops/Rescue, Airlift
- **Number of Sorties: 3046**
- **Number of Weapons released: 803**
 - 679 Guided

Note: Numbers reflect Major Combat Ops only

OIF CFACC's "5 Fights"



Coalition Campaign Planning



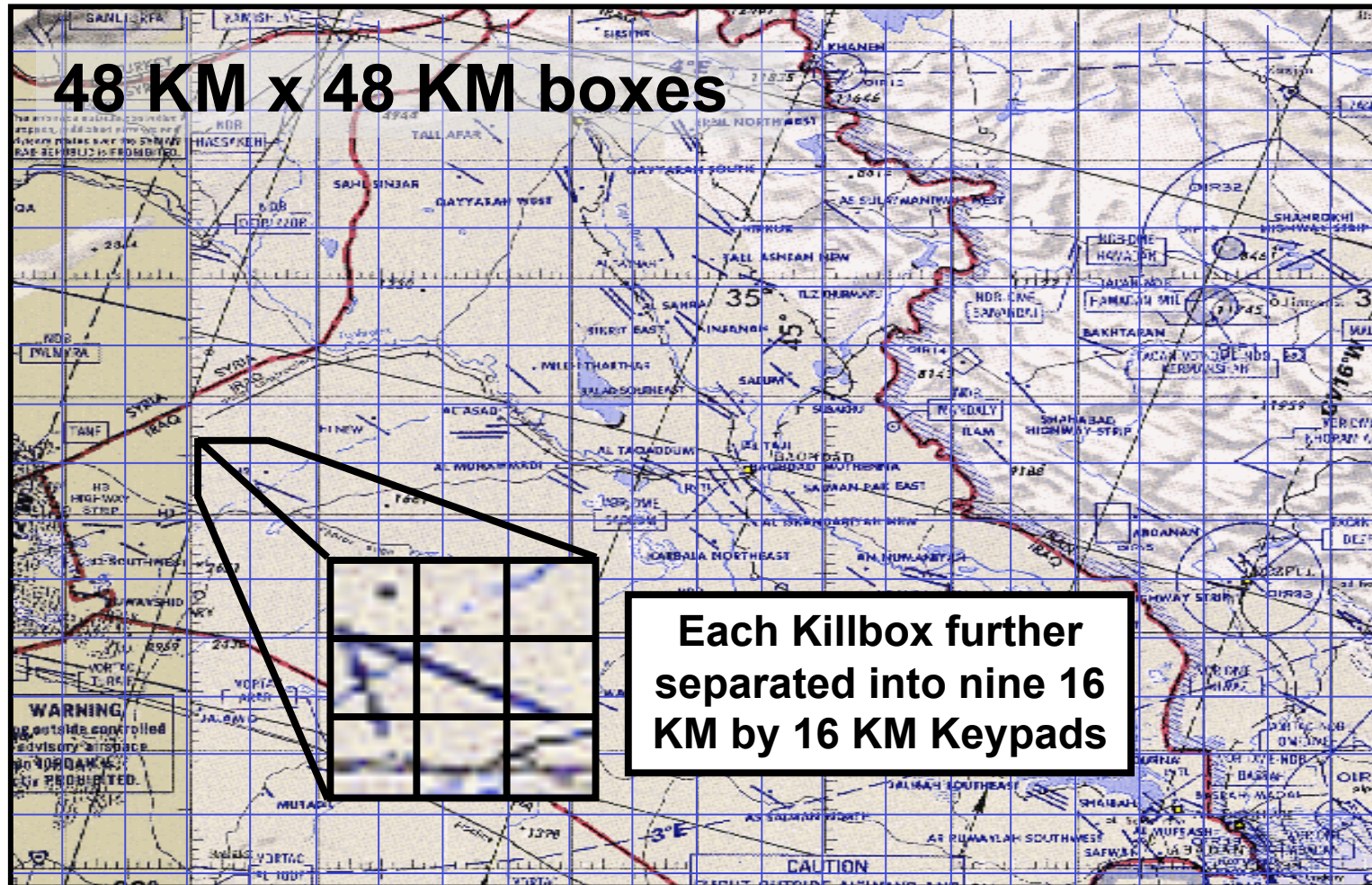
- 66 nations participated in/supported OIF... either publicly or privately -- Coalition contributions allowed a quick and successful campaign
 - CFACC Host Nation/LNO Construct key to coalition's integrity -- 10-Man teams deployed to seven different host nations' C2 centers
 - Coalition members held several key CAOC positions
 - In-depth planning, exercises and rehearsals set the tone -- CFC Rock Drill, Internal Look 2003, Chair Fly
 - Coalition members brought into planning as political support allowed -- RAF and RAAF planners integrated at CENTAF HQ early in process
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- **Datalink capabilities enhanced situational awareness across the battlespace**
 - Key enabler in attaining and maintaining air superiority
- **Lack of an air defense system to aircraft direct interface surfaced a critical liability**
- **Ground force units had good communication links to the CAOC providing general force locations -- However, most Counterland/CAS assets were not equipped with datalink**
- **Persistent ISR over the entire battlespace enabled real-time targeting, surveillance and cross-cueing.**
- **Networking and datalink capabilities allowed for reachback operations and optimum fusion of the coalition's ISR assets**
- **Sensors, C2 platforms & CAOC cross-cued inputs to synthesize target data**



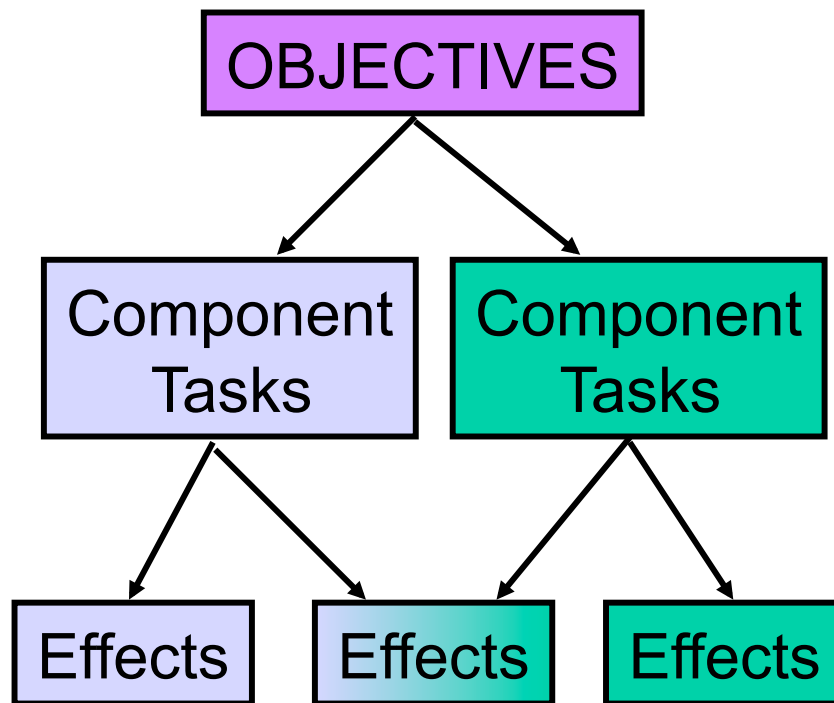
- **Air Superiority allowed coalition forces essentially unhindered operations – OSW and ONW ensured Air Superiority south of 33N and north of 36N from D-Day on**
- **Electronic Warfare Coordination Cell integrated coalition EW assets -- chaff, jamming, drones, UAV masked friendly entry corridors**
- **SEAD/DEAD campaign very successful against SAM threat**
- **Coalition was able to prosecute time-sensitive (TST) and dynamic targets on a large scale.**
- **Greatly improved near-precision strike capabilities -- Nearly every coalition aircraft had the ability to employ PGMs**
- **Dynamic use of killboxes facilitated the air component's ability to support the ground commander**
- **Information Operations contributed to widespread capitulation, surrender and desertion of forces; and no employment of WMD**



- **Effects-based Operations**
 - Shift from Kinetic to Non-Kinetic Effects
- **F2T2EA--Find, Fix, Track, Target, Engage, Assess**
- **Intelligence, Surveillance, Reconnaissance (ISR)**
- **Mobility Operations**
- **Platform Tailoring**

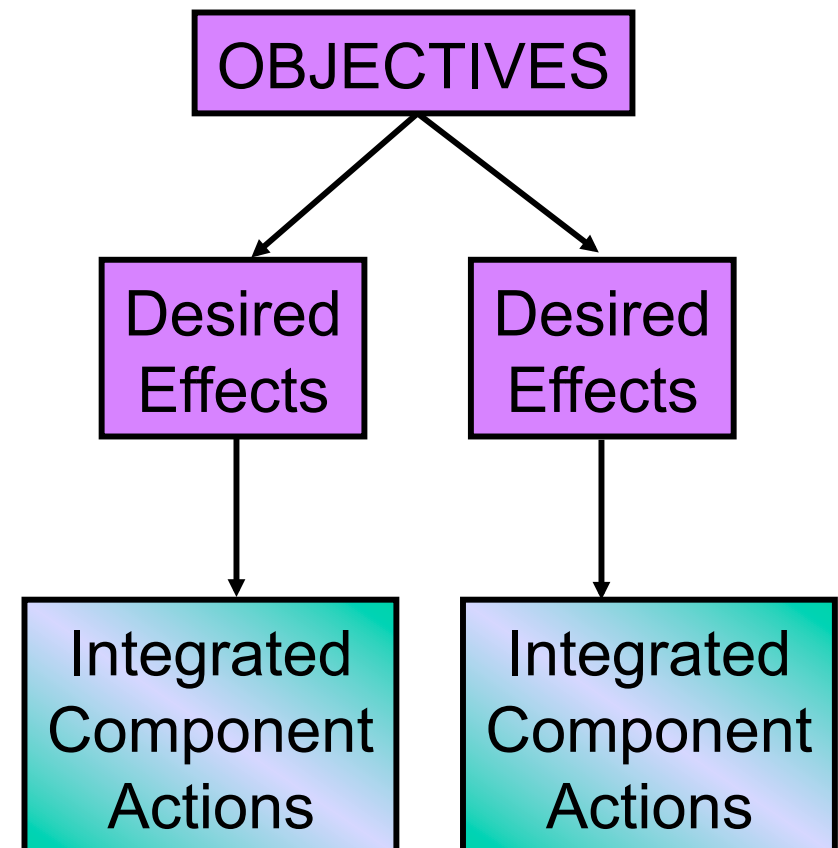


Component Focused

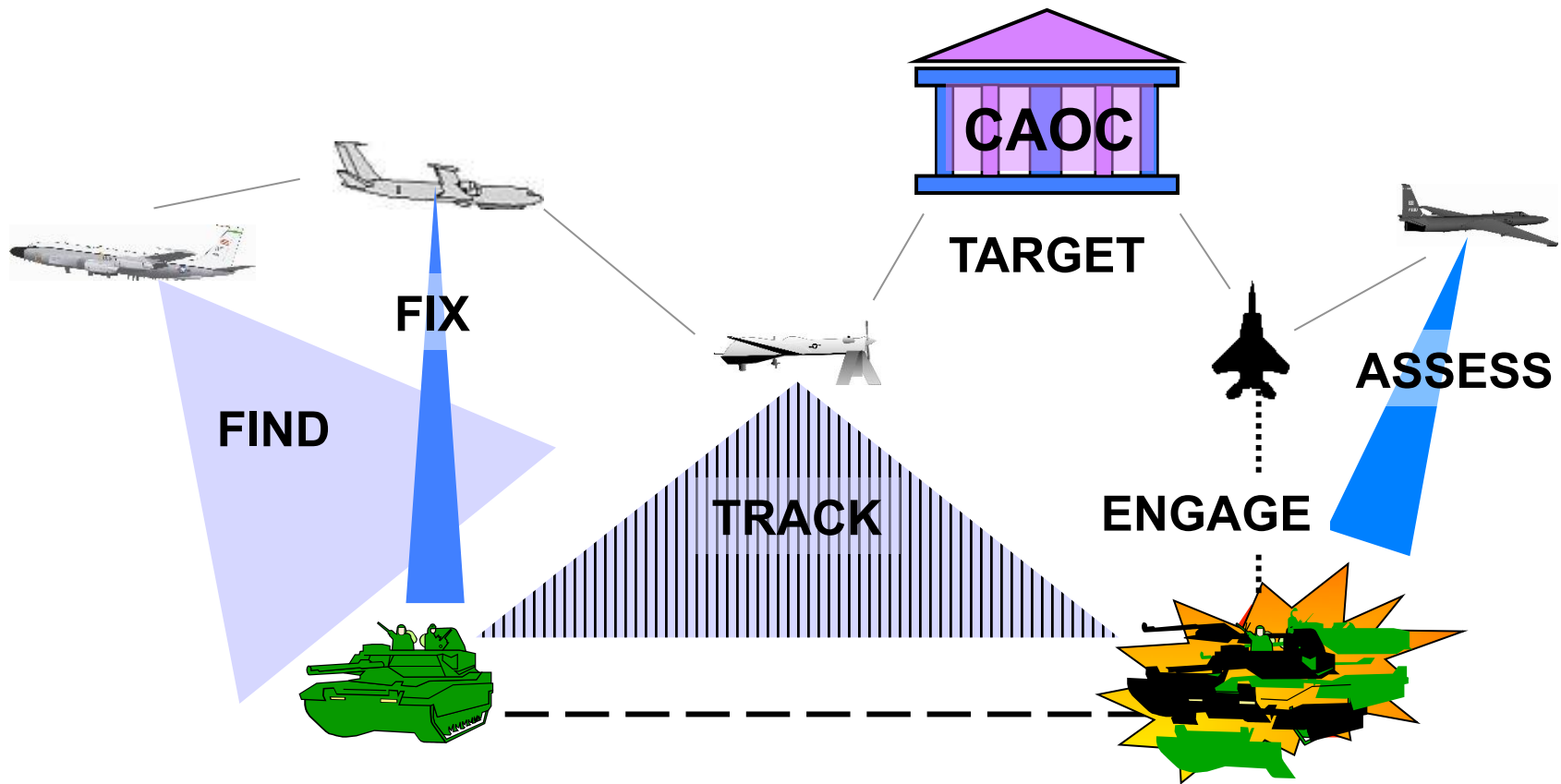


(Traditional Approach)

Effects Focused



EFFECTS CHAIN: F2T2EA



FIND, FIX, TRACK, TARGET, ENGAGE, ASSESS

- Shift from Order of Battle to Insurgent Detection
- Sensor cross-cueing provides synergy (Find & Fix)
- Great demand for persistent sensors (Fix & Track)
- Non-traditional ISR: Use every sensor available



Mobility Operations



- **Defensive Systems**
- **Coalition Air Support**
- **Materiel Handling**
- **Aeromedical Evac**



Platform Tailoring



- Every aircraft is a sensor
- Sensor platforms can provide effects
- Linked capabilities provide synergistic effects



- **Planning for Coalition Operations**
- **Information Sharing**
- **Multinational Integration (Tactical & Operational)**
- **Command and Control**
- **Integrated Air Operations**



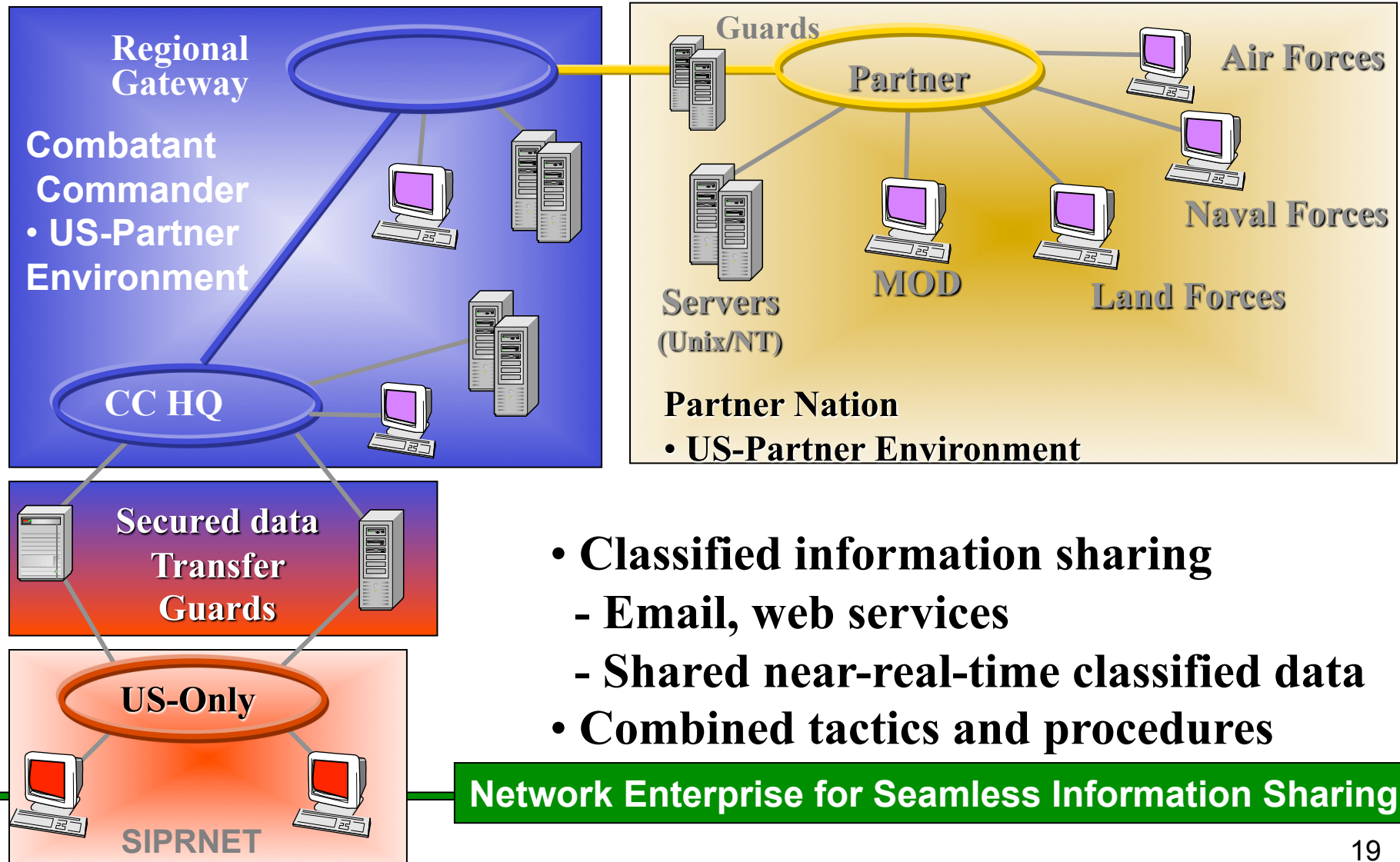
Coalition Planning



- Rules of Engagement
- Fratricide Avoidance
- Communications
- Intelligence Sharing



Coalition Information Sharing



- **Classified information sharing**
 - Email, web services
 - Shared near-real-time classified data
- **Combined tactics and procedures**

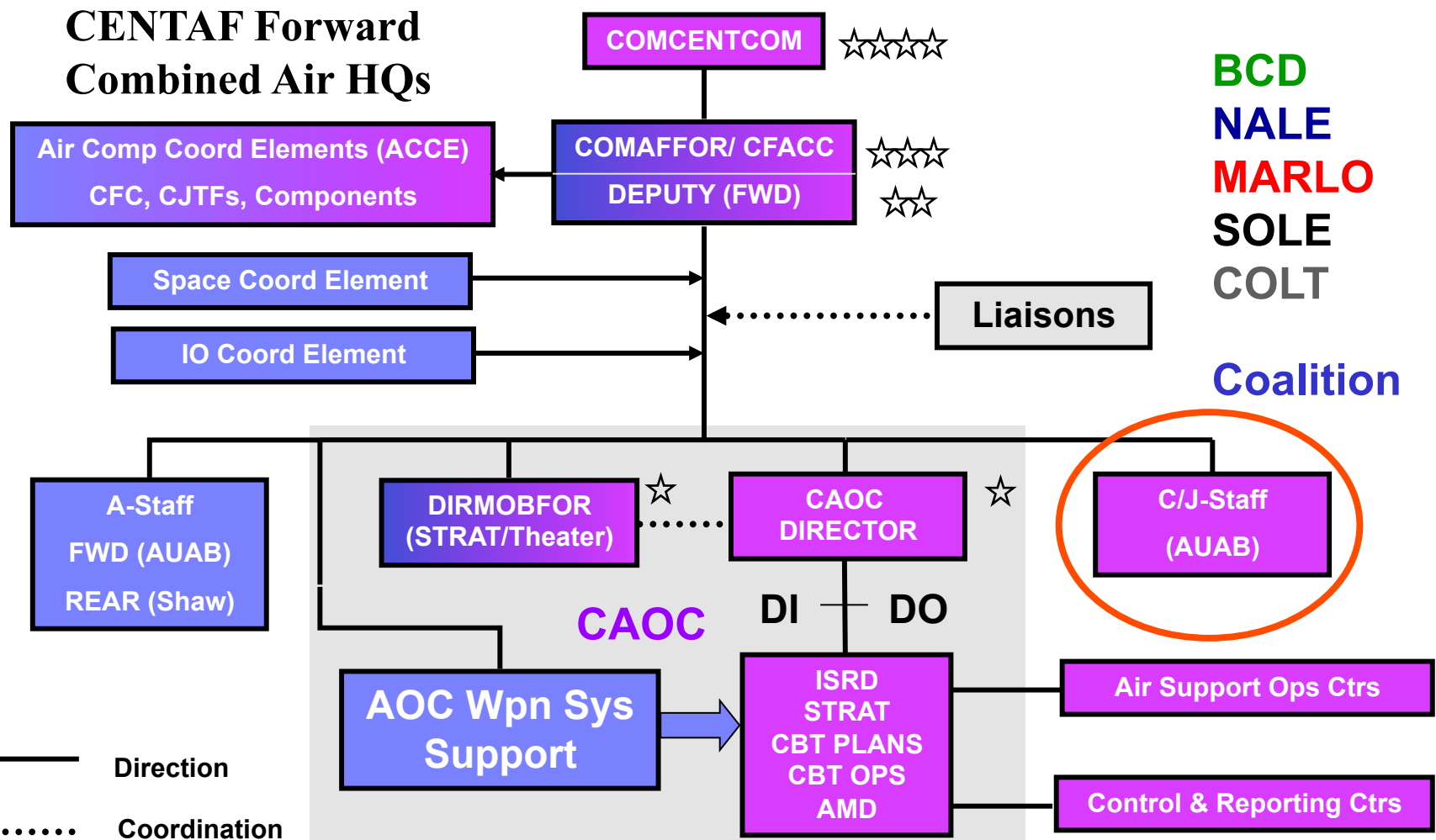
Network Enterprise for Seamless Information Sharing

Multinational Integration



- **Tactical Integration**
- Operational Integration



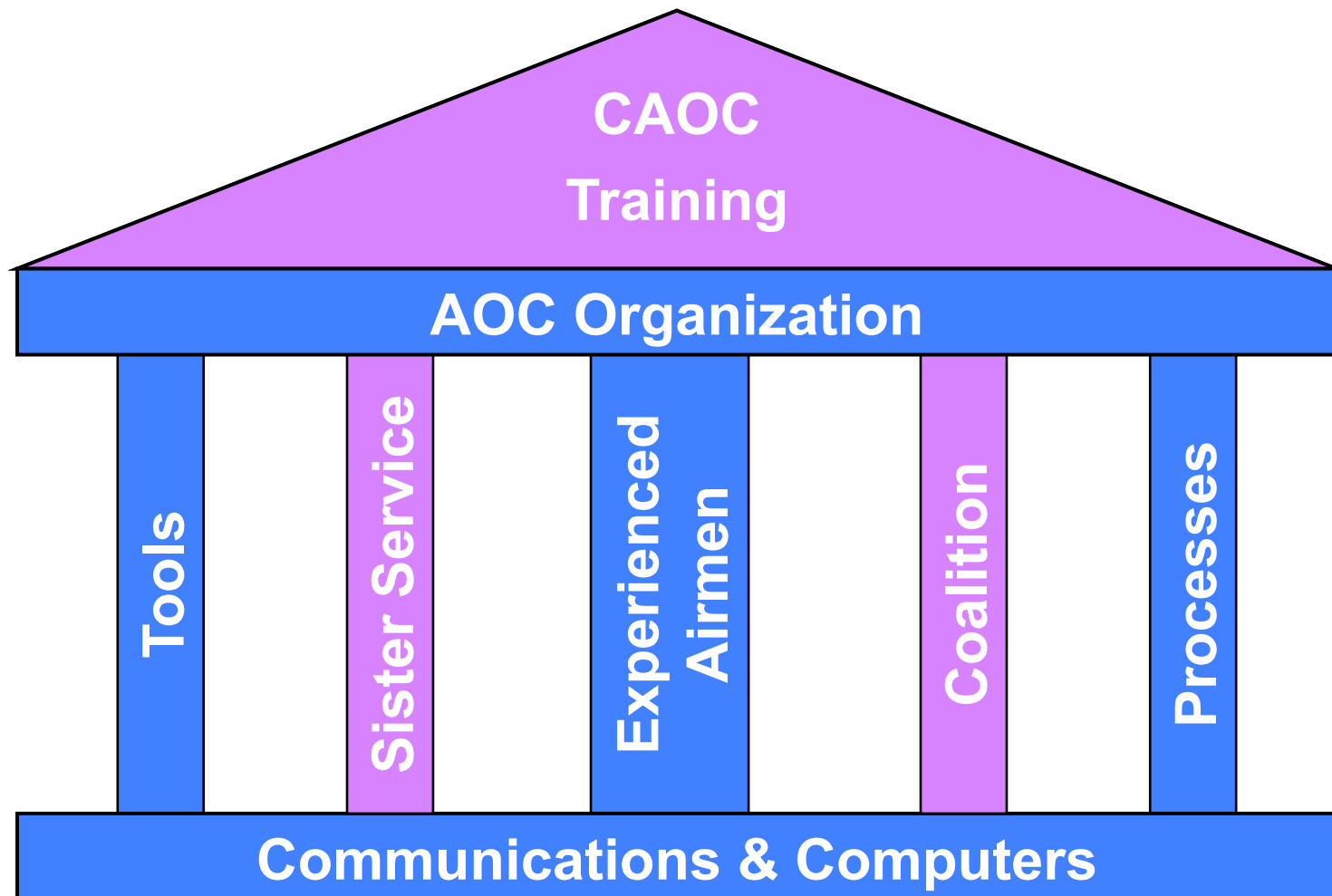


- **Combined Air Operations Center**
- **Systems (Tactical Air Command & Control System)**
- **Tools and Processes**

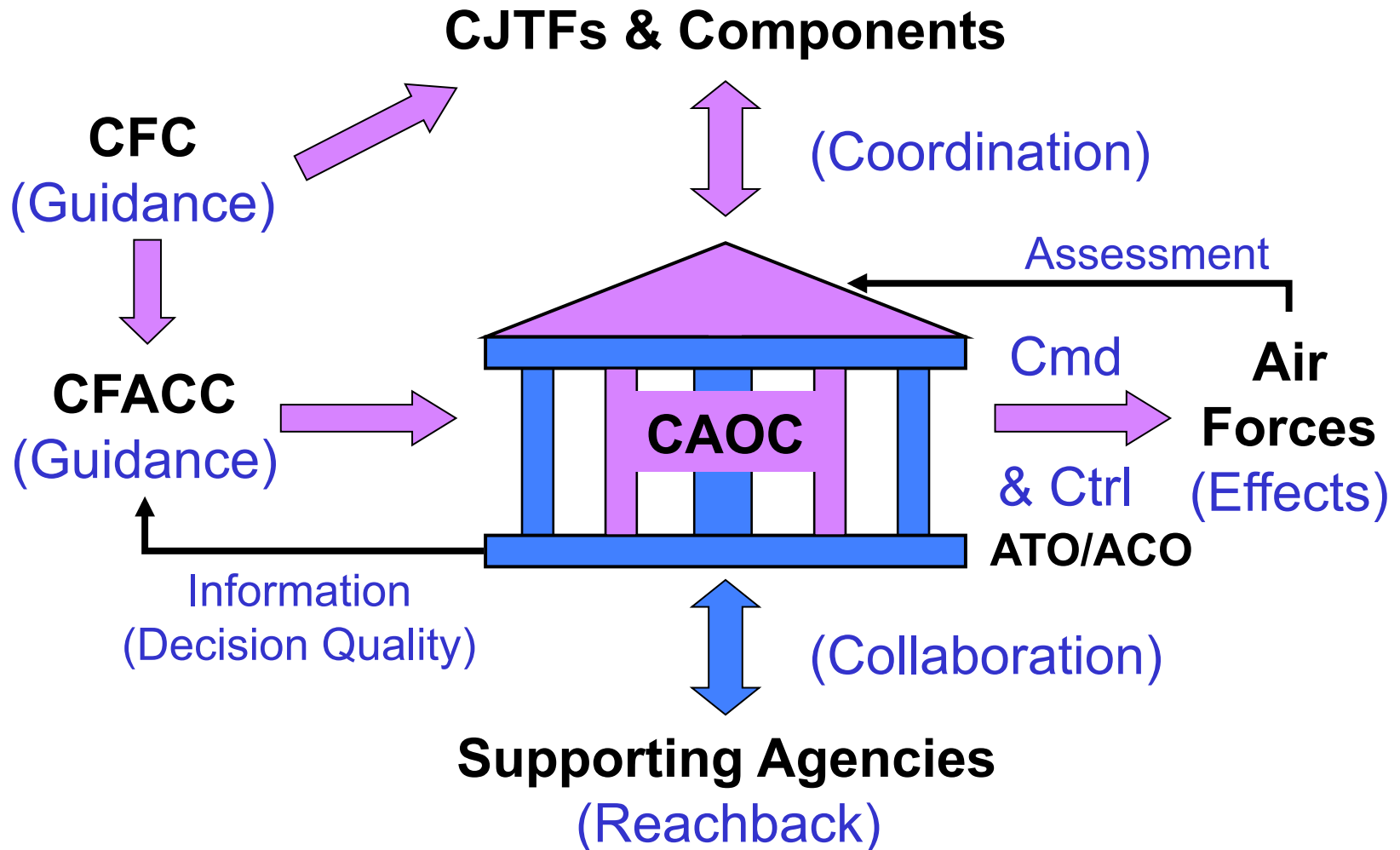


Structure

CAOC Weapon System Model



BASIC CAOC MODEL



Coalition AOC Systems



ATO/ACO Production
ATO Execution Tools
Air Picture
Theater Missile Defense
Personnel Recovery
Cmd & Ctrl Radio Nets
Air Mobility
Collaboration Tools
Coalition Communications

Collection Mgmt
Imagery Exploitation
Targeting
Intel Fusion
Analysis
Intel Sharing
Unit Support

Collaboration, Coordination, Information Sharing

TOOLS & PROCESSES



TOOLS

- Situational Awareness
- Decision Aids
- Planning
- Collaboration
- Reachback
- Execution

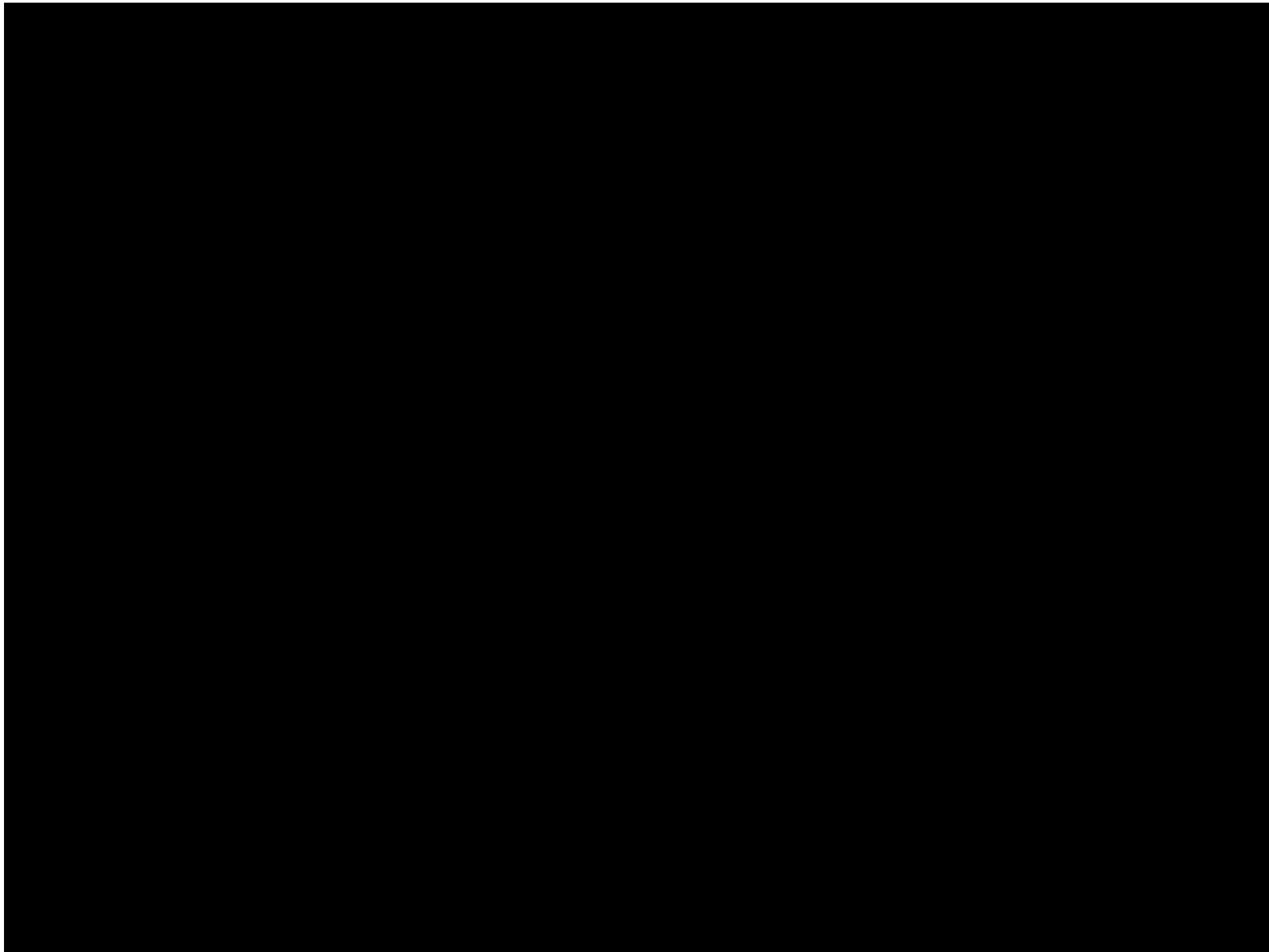
PROCESSES

- Intel Fusion
- Strategy-to-Task
- Effects-based Ops
- Dynamic Targeting
- Weaponneering
- CD Mitigation



Discussion







- Detailed analysis of the western Iraqi desert was conducted in preparation for the anticipated counter-TBM fight
- Detailed airfield analysis was accomplished to pinpoint the locations of Iraqi Air Force assets
- Potential enemy asymmetric responses were factored into the plan early and COAs developed
 - Iraqi civil aircraft , TBMs, UAVs, WMD
- Coalition forces were trained and equipped to deploy to and operate from bare-base/forward operating locations