Headquarters U.S. Air Force

Integrity - Service - Excellence

DISTRIBUTED MISSION OPERATIONS (DMO)

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HQ USAF/AF/A3O-AT
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U.S. AIR FORCE

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- **A3O-AT – Who We Are**

- **Current DMO Status**

- **DMO Highlights**

- **Way-Ahead for Air Force DMO-LVC**

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- **Mission: Establish policy for management, production, distribution & training of officer & enlisted aircrew**

- **Programs and oversee execution of the USAF flying hour program and aviation resource management**

- **USAF exec agent for OSD-directed Training Transformation (T2)**

- **Provide oversight of USAF/Joint exercise programs**

- **Lead agency for USAF Distributed Mission Operations (DMO)**
  - **Define/consolidate the Warfighter readiness training requirements & simulator policy**

DMO – An Ops Perspective

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- **What it is:**

  - **A readiness initiative networking flight and mission trainers (virtual simulators) to enable training/mission rehearsal at the individual/team/large force training levels**

- **Integrated into all USAF warfighter training way-aheads…CAF, MAF, SOF, & SPACE to include ANG and AFRC units**

- **Two-levels of training desired:**

  - **Large-team, large force virtual events such as Virtual Flag and Warfighter Focused Events (WFEs) conducted via the DMOC**

  - **Individual and small-team training (upgrade and initial qual events) done locally or via a link through the DMO Network and the ANG's DTOC**

    - **This is the fastest growing segment of DMO**

- **AF Corporate Structure strategies include DMO**
  - **Good News: DMO offers some relief to the funding equation for FY10 & beyond**
  - **Bad News: Force structure adjustments can change faster than DMO beddown strategies can absorb**
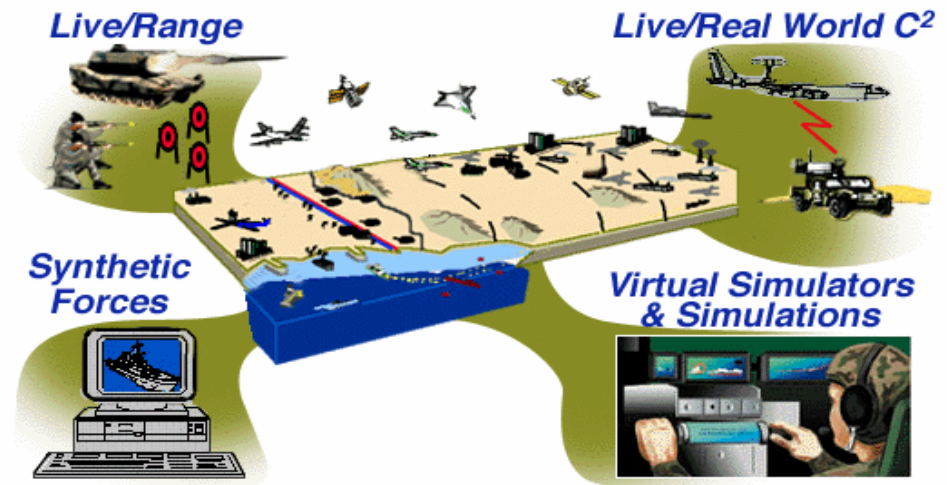
AF A3/5 goal: Access to high-fidelity simulators for every operational flying unit (DMO-capable)

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- **DMO-LVC, live-virtual-constructive training has morphed into a stand-alone category for warfighter readiness**

- **DMO-LVC allows more training options**
  - **Added realism during range missions and hands-free White Force inputs during training**

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- **Coalition VIRTUAL FLAG 09-4:**
  - **First VIRTUAL FLAG that will connect coalition training systems …Australia, Britain, Canada & America (ABCA Nations)**
    - **16-25 Sep 2009**
    - **Networked via the JTEN to the DMOC**
    - **Coalition CAOC at Davis Monthan AFB**
    - **All four nations will use JTAC facility @ DMOC to control CAS missions**
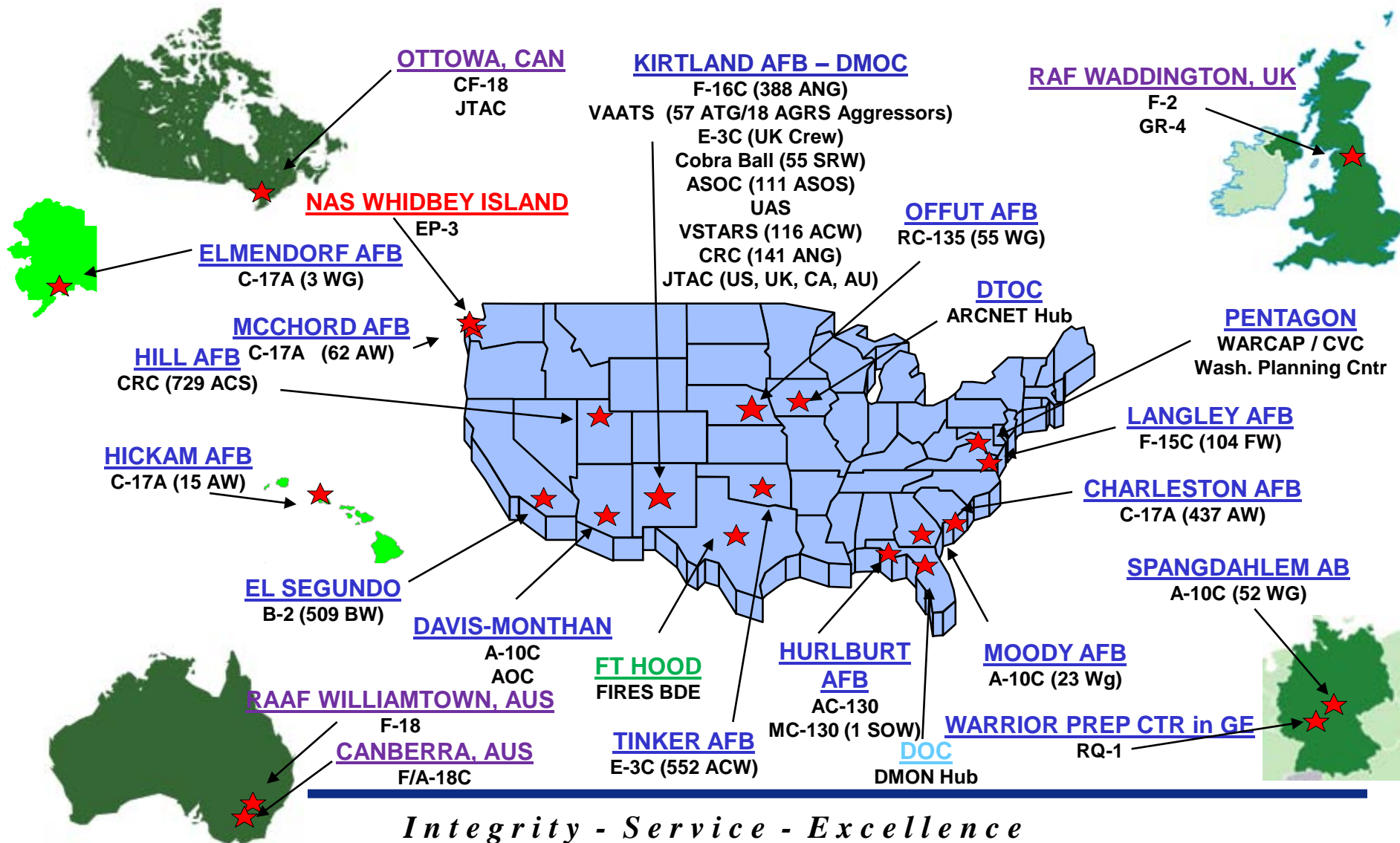   - **RAF AWACS crew operating from E-3 consoles at the DMOC**

CVF 09-4 Players
16-25 Sep 2009

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OTTOWA, CAN
CF-18
JTAC

KIRTLAND AFB – DMOC
F-16C (388 ANG)
VAATS (57 ATG/18 AGRS Aggressors)
E-3C (UK Crew)
Cobra Ball (55 SRW)
ASOC (111 ASOS)
UAS
VSTARS (116 ACW)
CRC (141 ANG)
JTAC (US, UK, CA, AU)

RAF WADDINGTON, UK
F-2
GR-4

NAS WHIDBEY ISLAND
EP-3

OFFUT AFB
RC-135 (55 WG)

DTOC
ARCNET Hub

ELMENDORF AFB
C-17A (3 WG)

PENTAGON
WARCAP / CVC
Wash. Planning Cntr

MCCHORD AFB
C-17A (62 AW)

HILL AFB
CRC (729 ACS)

LANGLEY AFB
F-15C (104 FW)

HICKAM AFB
C-17A (15 AW)

CHARLESTON AFB
C-17A (437 AW)

SPANGDAHLEM AB
A-10C (52 WG)

EL SEGUNDO
B-2 (509 BW)

DAVIS-MONTHAN
A-10C
AOC

RAAF WILLIAMTOWN, AUS
F-18

CANBERRA, AUS
F/A-18C

FT HOOD
FIRES BDE

TINKER AFB
E-3C (552 ACW)

HURLBURT AFB
AC-130
MC-130 (1 SOW)

DOC
DMON Hub

MOODY AFB
A-10C (23 Wg)

WARRIOR PREP CTR in GE
RQ-1

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- **Challenges: CVF 09-4 will establish several precedents for future coalition connectivity**

    - **Network security approvals, weapon system data disclosure ROEs, connectivity, ITAR Exemptions….but, several hurdles still to jump prior to STARTEX**
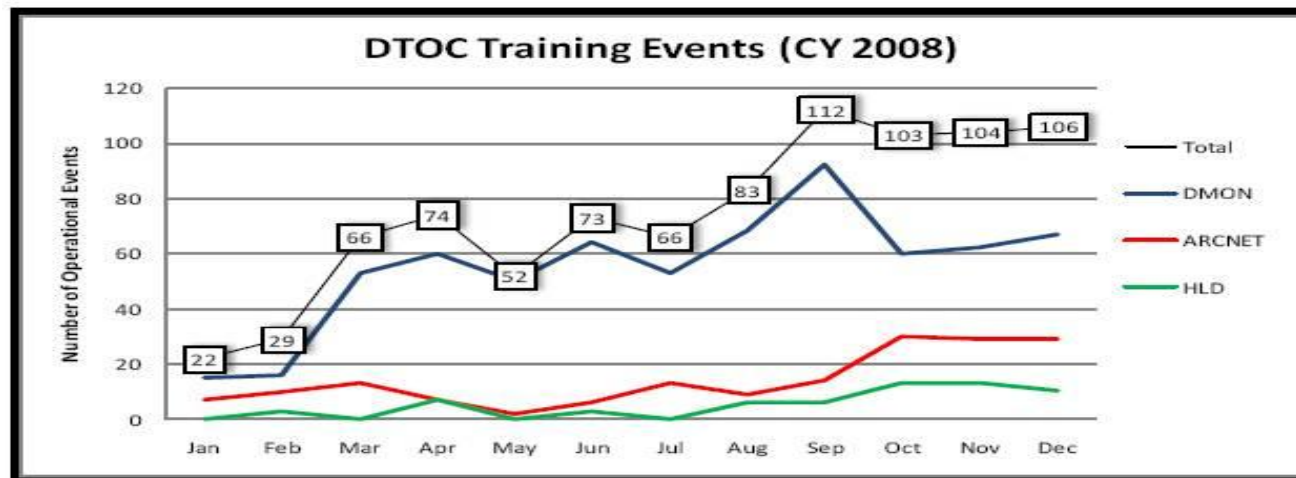
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- **ARC: Five-fold increase in small team & networked readiness training via the ANG's Distributed Training Operations Center (DTOC)**

  - **Flexible scheduling and on-site White Force cadre satisfies C2ISR, JTAC, and individual pilot readiness and upgrade training reqs**

DTOC Training Events (CY 2008)

Number of Operational Events

| Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |

Total values shown: 22, 29, 66, 74, 52, 73, 66, 83, 112, 103, 104, 106

Legend: Total, DMON, ARCNET, HLD

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- **USAFWC: "Project Alpine III" underway to insert synthetic threats, targets, information via a modified OFP into a 422 TES F-15E**

  - **Modifying a jet's OFP viewed as the necessary step to achieve true LVC**

  - **Way-ahead calls for LVC entities to feed F-22s/F-35s with air and ground threats & targets**
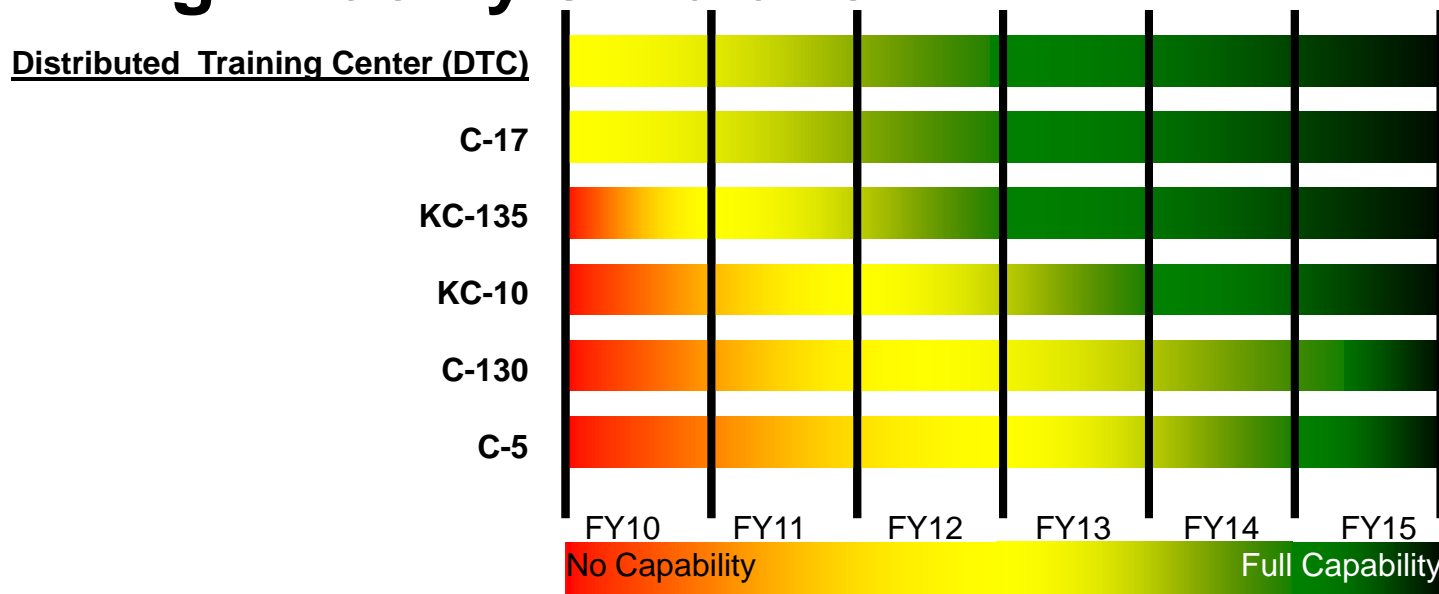
blue forces

tracked wheeled vehicle

SAM site

Virtual F-15

Live F-15

Constructive Forces

DMO Infrastructure

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- ## MAF presents the best BCA for DMO

  - ### Savings in FHs and energy, with realistic training scenarios

  - ### Cleanest example of replacing live-fly with high-fidelity simulation

Distributed Training Center (DTC)

C-17

KC-135

KC-10

C-130

C-5

FY10   FY11   FY12   FY13   FY14   FY15

No Capability   Full Capability

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- **DMO-LVC development will be critical for 5th Generation training, integrating IW, SPACE, and CYBER into DMO, and for range integration**

- **The potentially huge price tag for DMO-LVC mandates that we pursue only those efforts with the best ROI, or those efforts offering readiness training unavailable via other methods**

- **Security issues/foreign disclosure issues will remain major challenges to expanding DMO beyond AF blue-suit connections**

QUESTIONS?