



Distributed Mission Training

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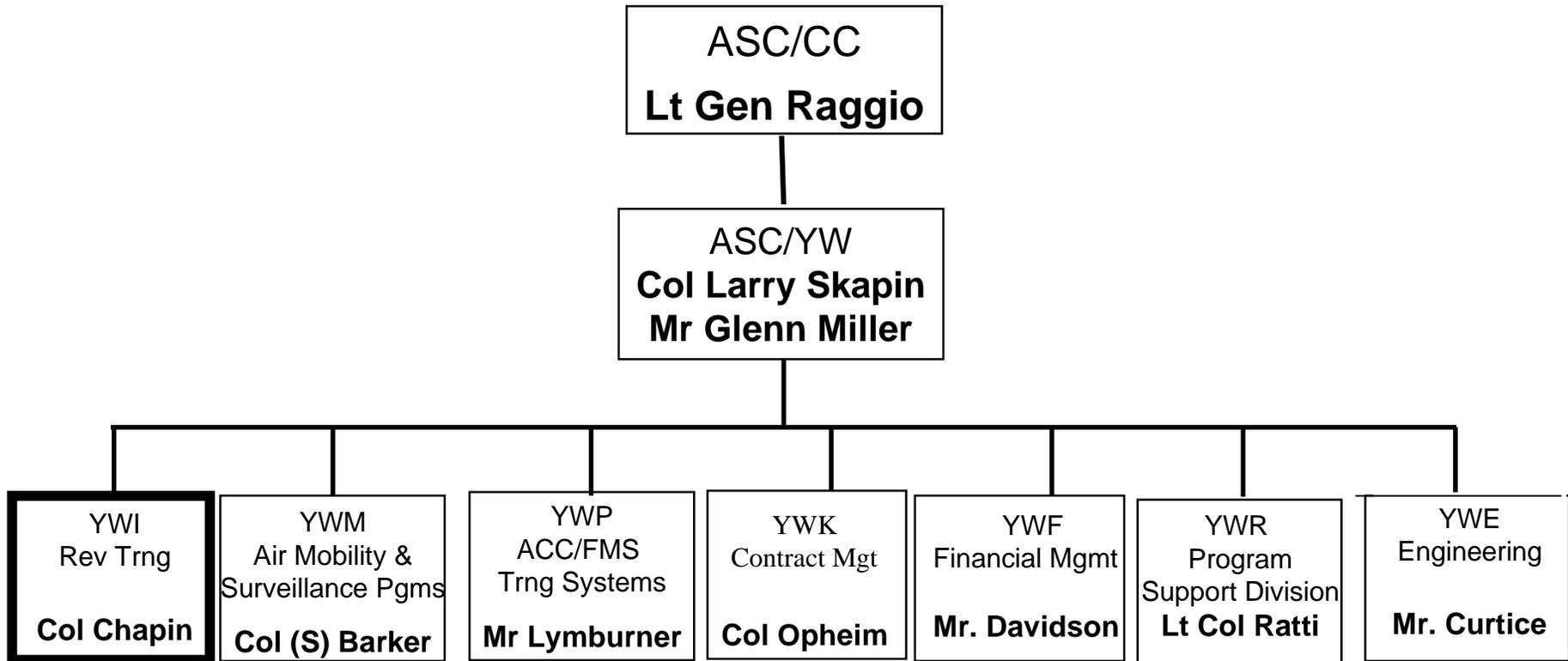


Overview

- **Background**
- **System Description**
- **Current Programs**
- **Future DMT**
- **Summary**



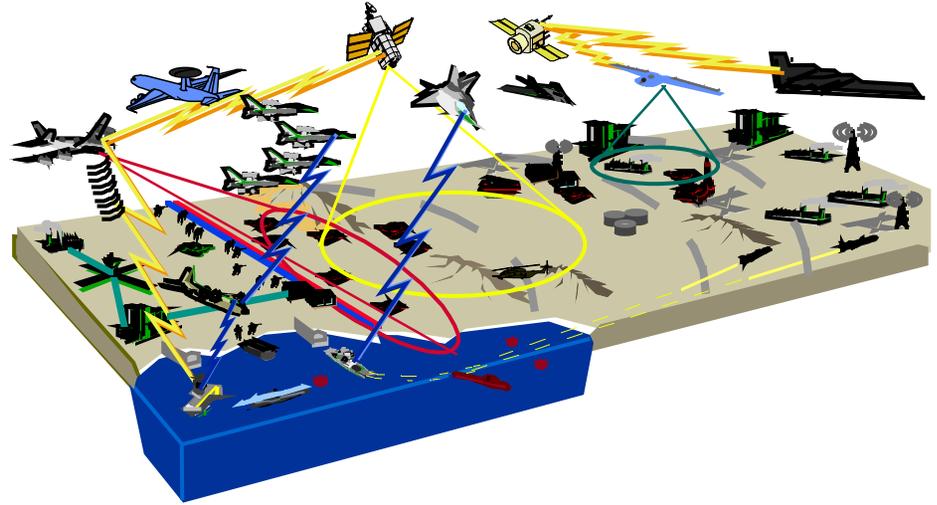
ASC/YW Organization





Obstacles to Team Training

- Insufficient exercise \$\$
- Reduced flying time
- Security issues
- High PERSTEMPO, OPSTEMPO
- Safety
- Airspace availability
- Restricted weapons/EW envelopes
- Environmental concerns
- Complex rules of engagement



DMT Vision: Fly the mission in sims before we fly the real mission



DMT History

“Do you have any idea how hard it is for us to pull all elements of our warfighting team together to train...same place...same time in peacetime...almost impossible...rarely happens...at RED FLAG, we achieve a degree of that...even there, exception rather than the rule...if we can realize our vision with Distributed Mission Trainers we'll be able to provide our aircrews...combat training to include mission rehearsal every day of the week, fifty-two weeks a year...an unprecedented improvement in the quality of training that we provide to those troops that we ask to go execute our mission every day...”

General Richard Hawley



DMT Training Focus

Focus: Team training for aircrews to compensate for limitations

Full Mission Rehearsal 0-5%

Distributed

Distributed Training with other units-- 20%

Campaign Force

Inter-Team Skills

Mission

Trained in local multi-ship 40-50%

Team Skills

Flight

Local

Element

Trained in single simulator 20-30%

Individual Skills

Basic Fighter Maneuvers

Aircraft Proficiency



DMT Domains

DMT-A: ACC/PACAF/USAFE/ANG/AFR

DMT-M: Air Mobility Command

DMT-SO: AF Special Ops Command

DMT-T: Air Education and Training Command

DMT-S: AF Space Command

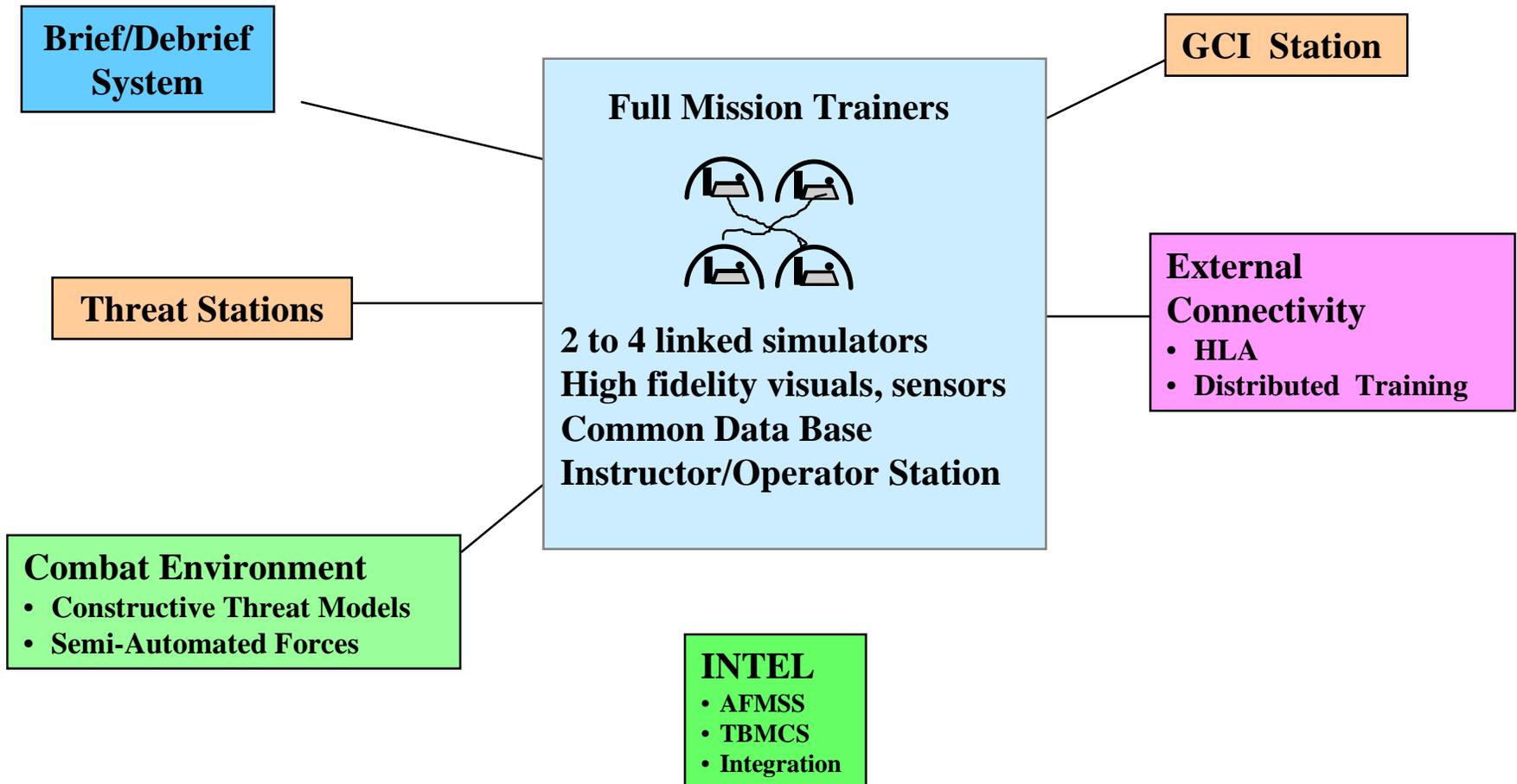
DMT-C2: AC2ISRC

DMT-CS: Combat Support



Mission Training Center

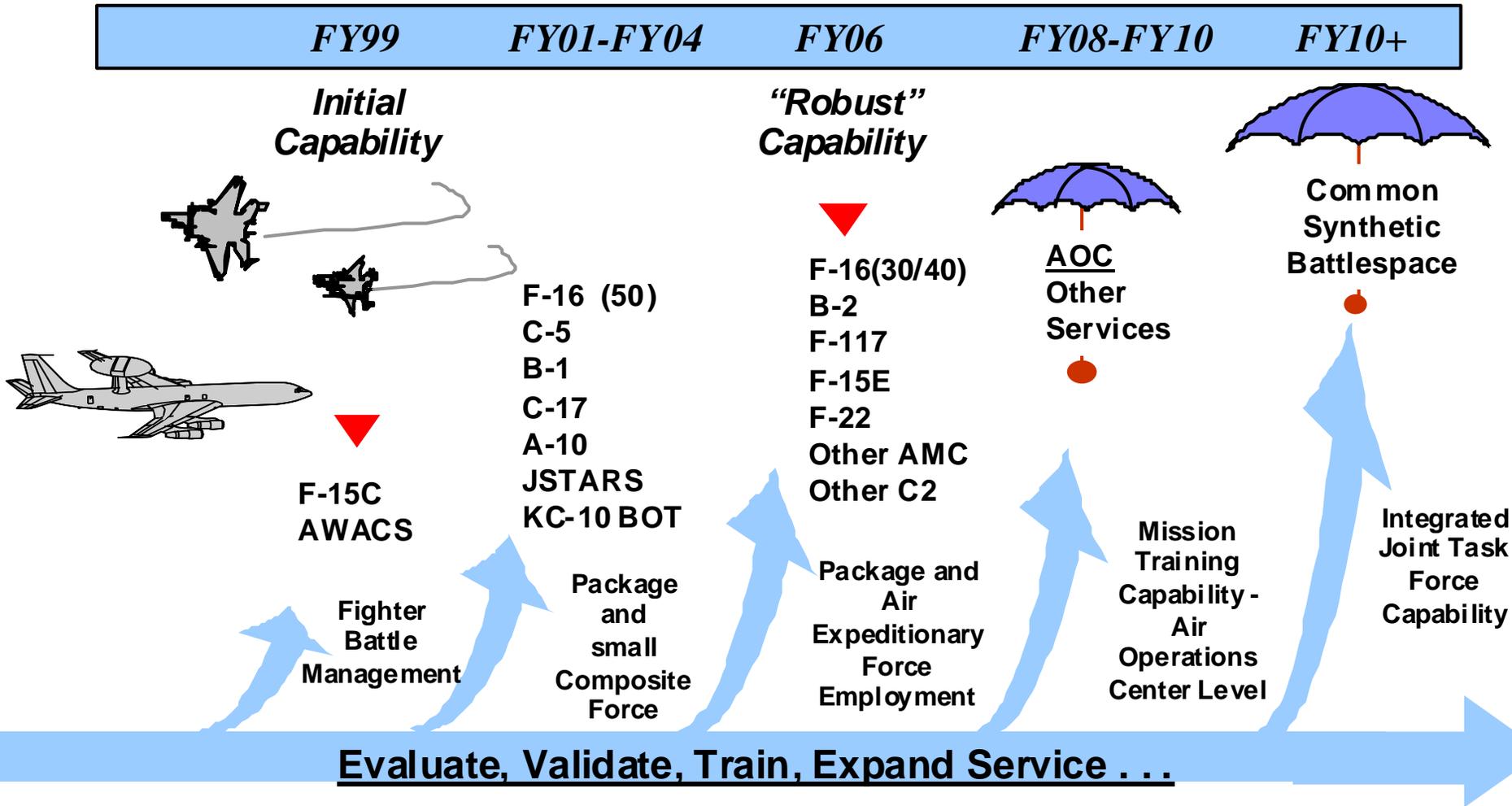
Basic building block of DMT



Mission Training Centers at every CAF Wing--full training environment



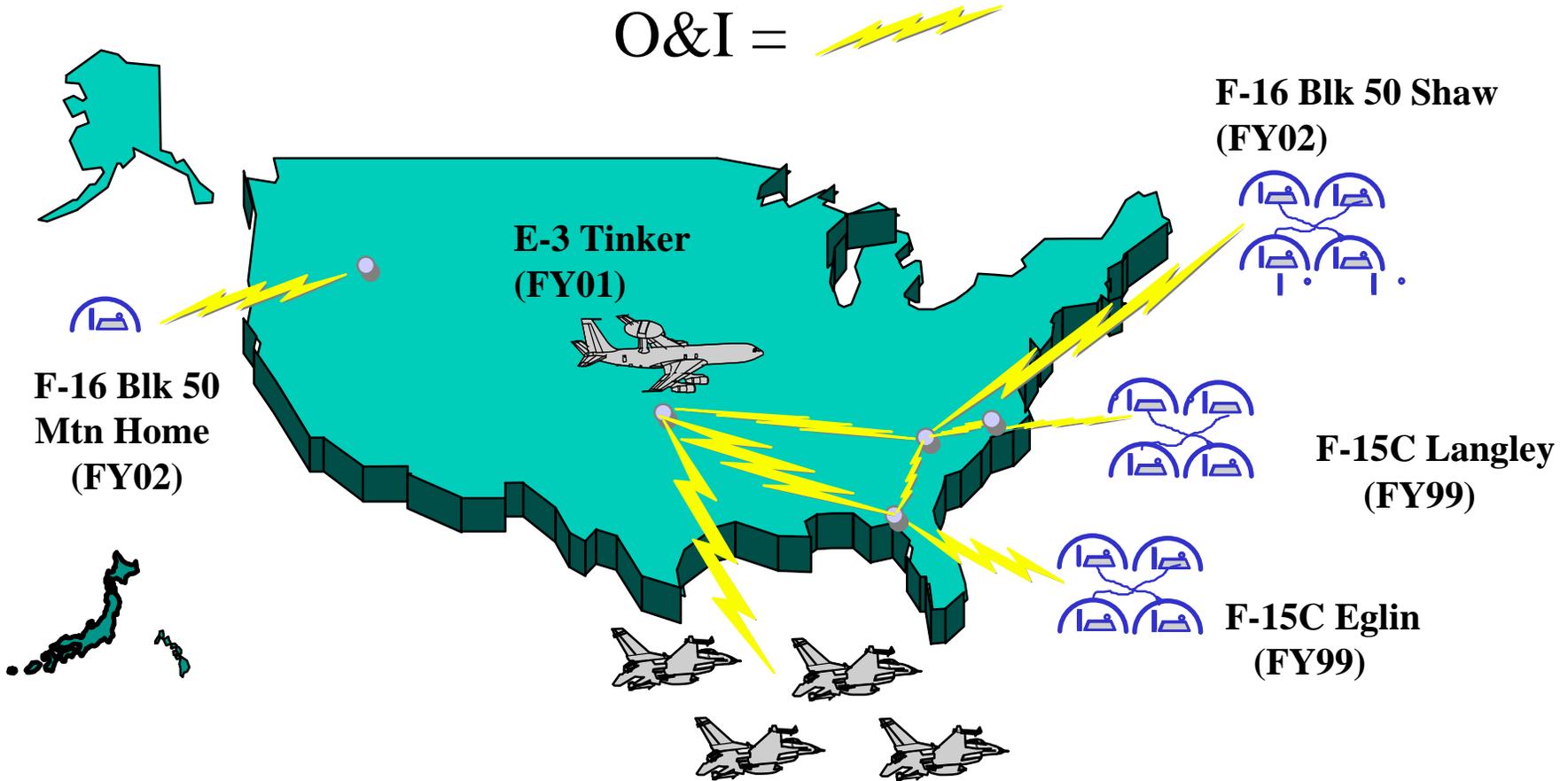
Original DMT Roadmap





Distributed Mission Training

(Funded Efforts Only)



*Networked Live, Virtual and Constructive
Team Training Events*



F-15C Mission Training Center (MTC)

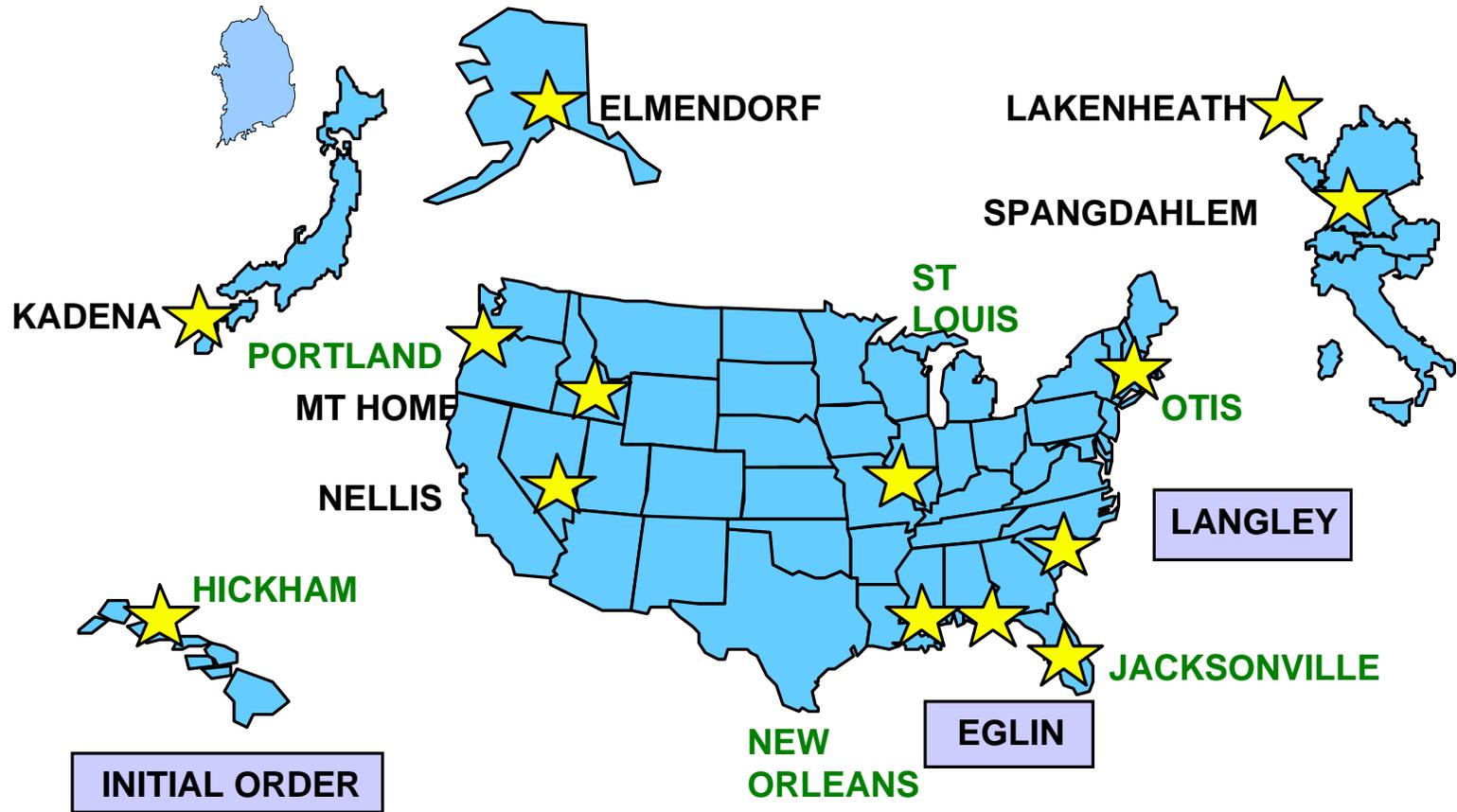


- **Contractor: Boeing Corporation**
 - **Contract award: November 1997**
- **First AF operational DMT Mission Training Centers**
- **Services initiated at Eglin and Langley AFB**
- **Fifteen year commercial service approach**
- **Full Operational Capability May 00**



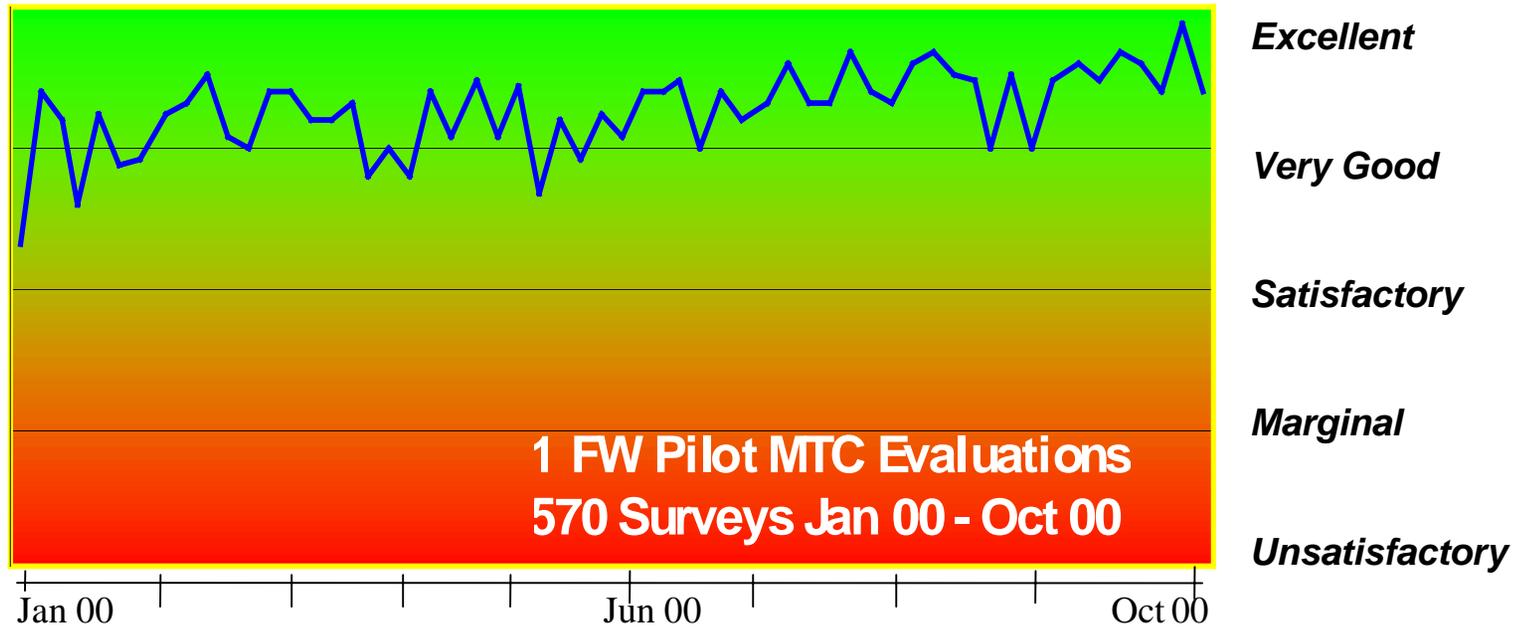


F-15C MTC





F-15C Training Feedback





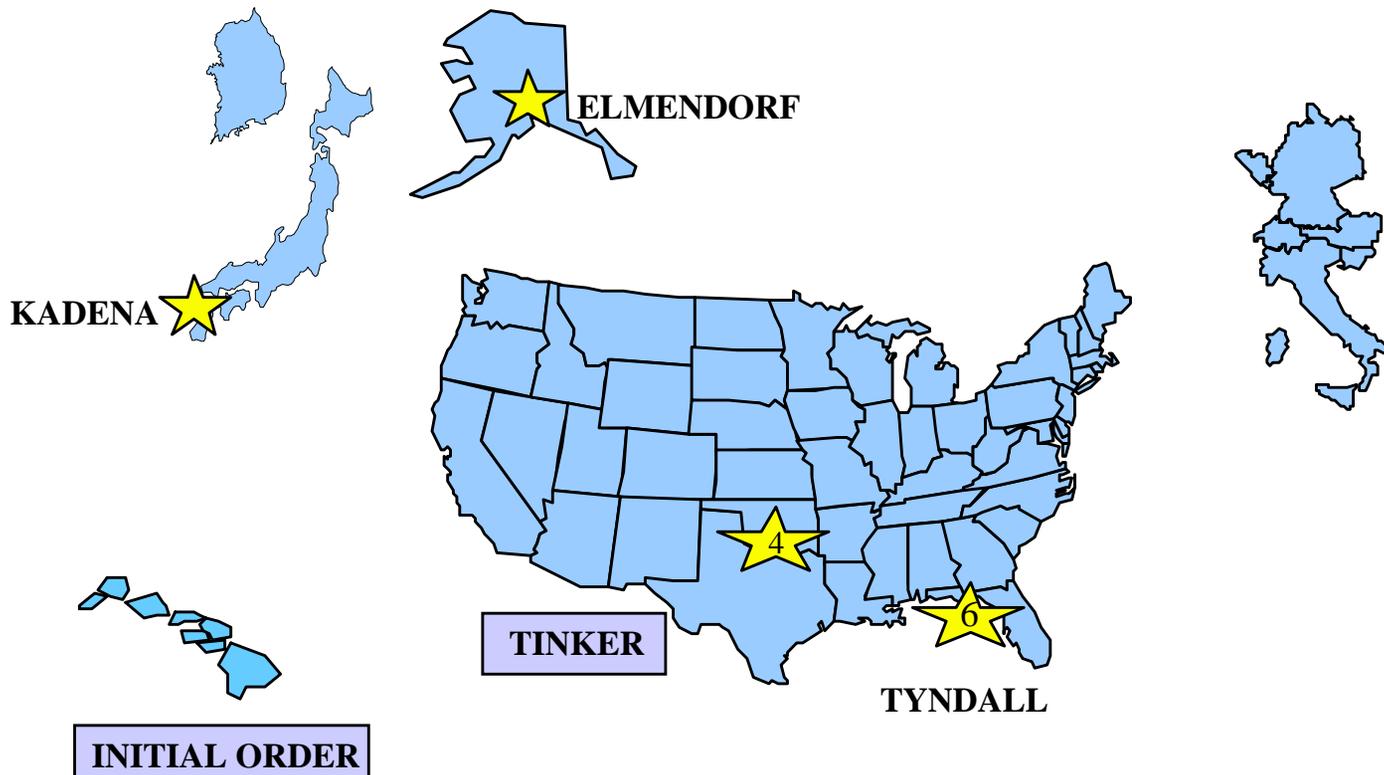
AWACS MTC

- **Contractor: PLEXSYS**
 - **Contract Award: February 1999**
- **Links AWACS crew training to live pilots at separate geographic locations -- forerunner of AEF**
- **Implemented early services ensuring success of initial service start-up**
- **Fifteen year commercial service approach**
- **SPO team less than 5 people**





AWACS MTC





F-16 (Block 40/50) MTC

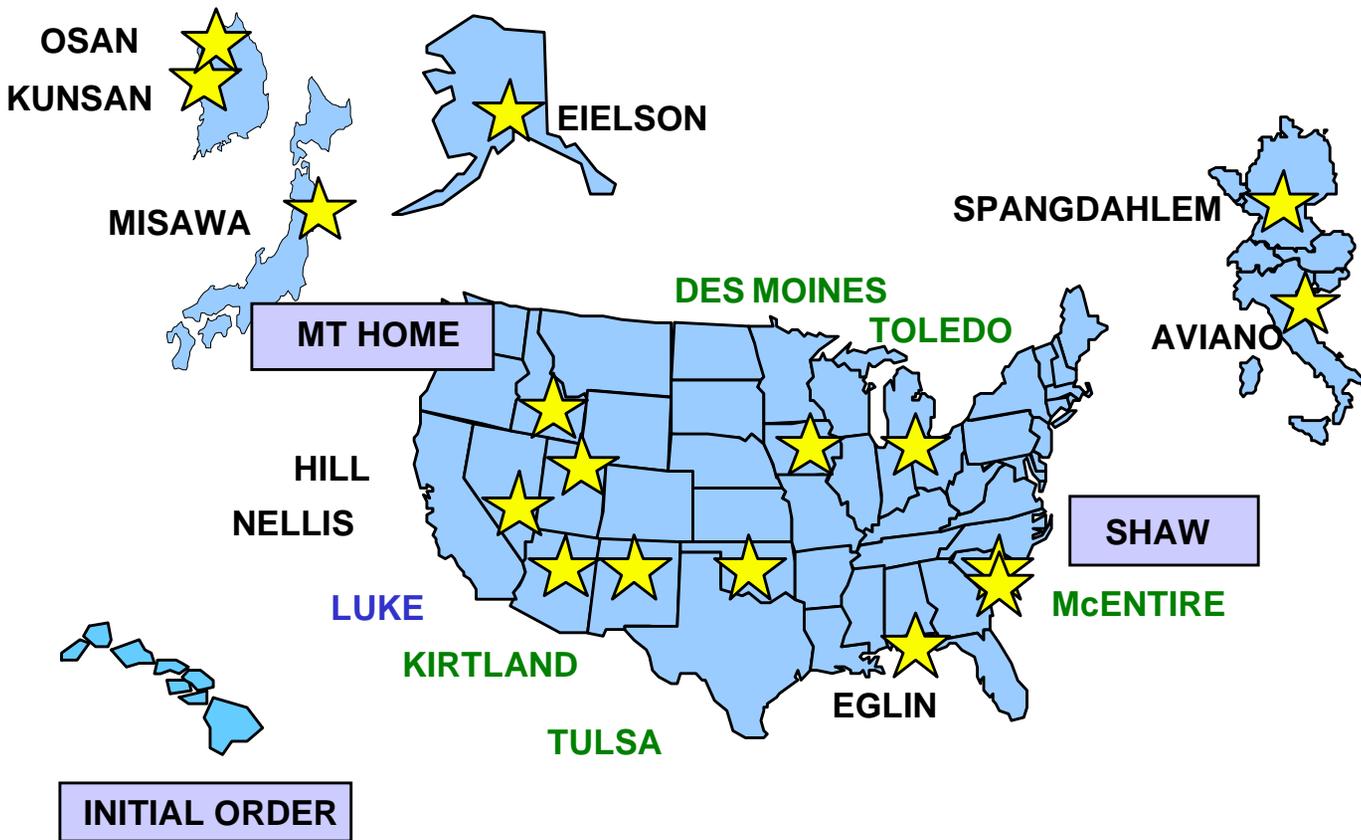


- **Contractor: Lockheed Martin Systems**
 - **Contract Award: Jun 1999**
- **AF's first Air-to-Ground DMT Mission Training capability**
- **Implemented multiple service levels to better support ANG & AETC requirements**
- **Fifteen year commercial service approach**
- **SPO team less than 5 people**





F-16 MTC





F-16 Service Levels

Level A

Single Cockpit

Visual

Limited field of view

DMT Capable



Level B

1 - 4 Cockpits

Full field of view

Networked

Brief/Debrief



Level C

2 - 4 Cockpits

Full field of view

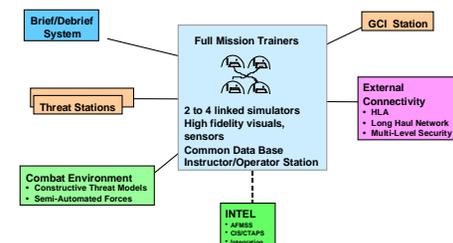
Networked

Brief/debrief

Virtual Threat Stations

Mission Observation

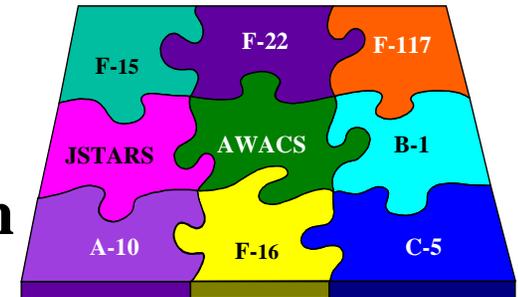
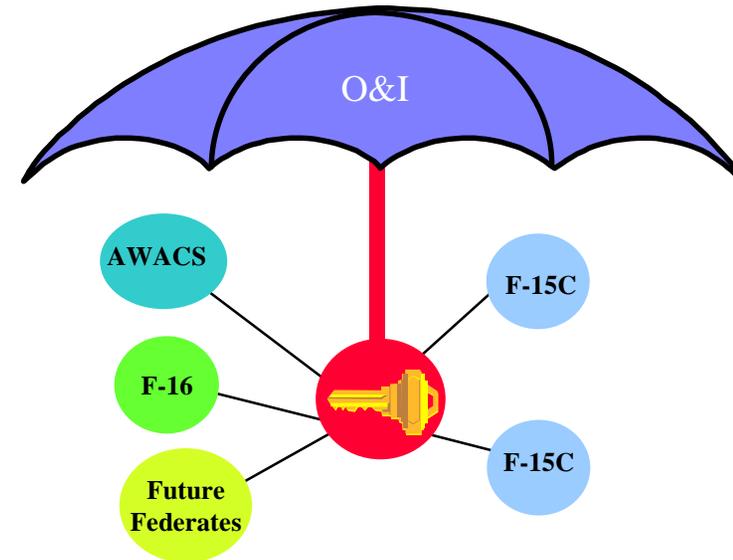
GCI/AWACS Station





Operations & Integration

- **Contractor: TRW**
 - **Contract Award: 17 Apr 00**
- **Integration Services**
 - **Systems Architecture**
 - **Standards**
- **Operation Services**
 - **Network Operations**
 - **Exercise Support**
- **Fifteen Year Commercial Service Approach**
- **SPO team manning less than 5 people**





O&I Status

- **IOC (Connectivity) Testing Underway**
 - **AWACS (Tinker) and F-15C (Eglin & Langley)**
- **3 R&D Tasks Scheduled**
 - **Multilevel Security**
 - **C2ISR (TACCSF)**
 - **Super Federate**
 - **Linking DMT Resources with Non-DMT Resources**



Future DMT

- **ISR Platforms**
 - **Rivet Joint-- FY 02/03**
 - **JSTARS--FY03**
 - **Predator--FY03**
- **B-1**
 - **Progressing to DMT Capability by FY04**
 - **Current WST Rehost & IOS Upgrade**
 - **Blocks D/E Upgrades Currently Contracted with NLX**
- **F-22**
 - **F-22 SPO Estimating FY04 POM for HLA/DMT**
 - **Estimated DMT Compatible in FY06**



Future DMT

- **F-15E**
 - **FY04 POM?**
- **F-16 Block 30**
 - **FY04 POM?**
- **Joint Strike Fighter**
 - **DMT is a Current Requirement**
 - **Potential Joint DMT**
 - **Training Strategy being Formulated**
 - **EMD Contract Award: Nov 01**



DMT Summary

- **DMT implements a revolutionary training vision**
- **Initial Programs used new Acquisition Strategy: CTSS**
 - **Concurrency**
 - **Tech Insertion**
- **Current Program: “Walk before we run”**
- **Network established**
 - **F-15C tied to AWACS through O&I net**
 - **F-16C Online July 02**
 - **ISR Platforms ASAP**
- **New Program Element (PE)**
 - **Created for DMT**



ASC DMT POINT OF CONTACT



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