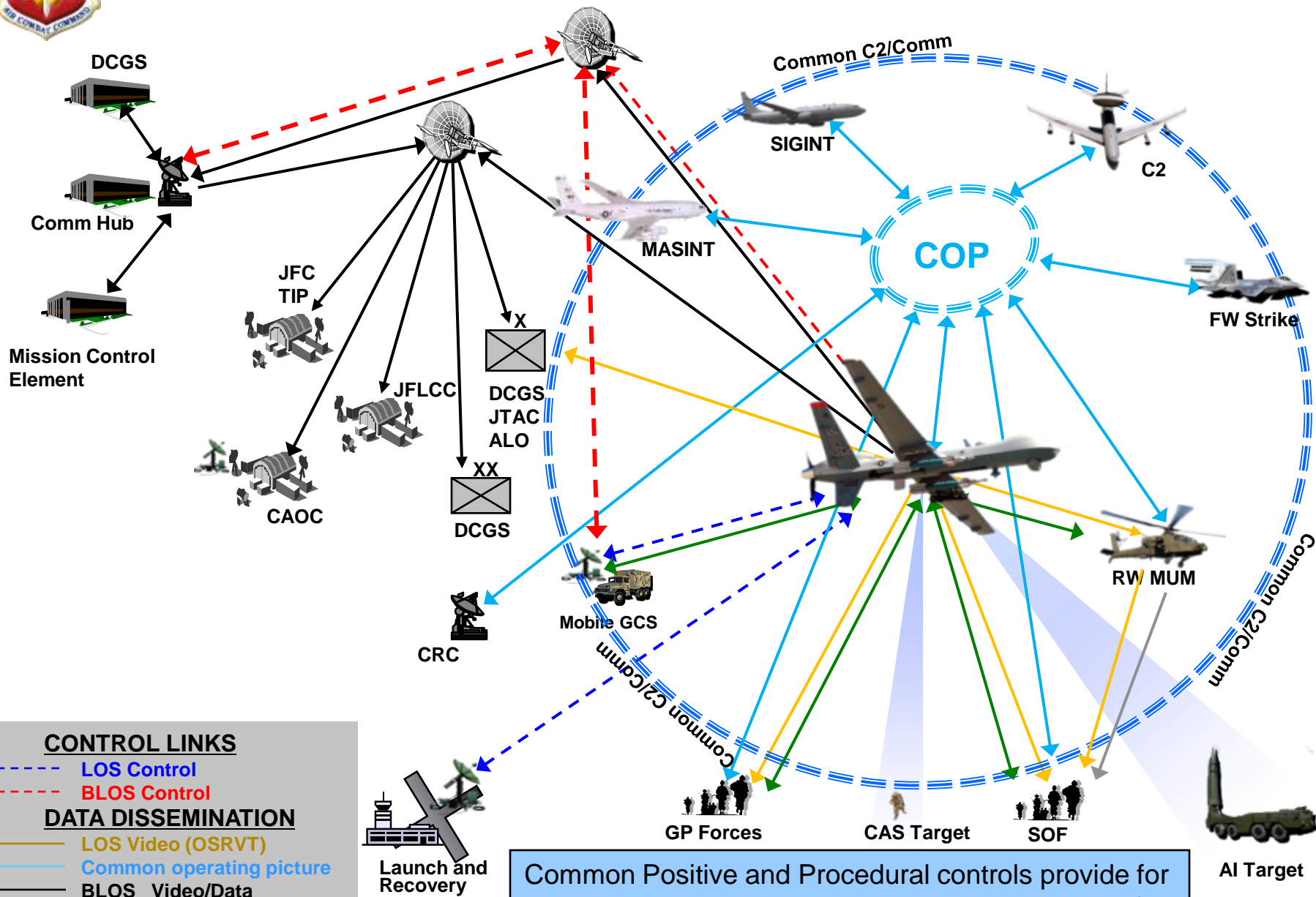




Maj Matt J. Martin

- **Duties and Experience**
 - **Ops Functional Manager for MQ-1/9 at Air Combat Command**
 - **Responsible for all Organize/Train/Equip Functions**
 - **Current/Qualified MQ-1 IP with 1,600+ combat hours**
 - **600+ combat hours flying multiple aircraft**
- **Key HF Issues/Challenges for ACC**
 - **Growing to 50 sustainable CAPs via increased training capacity**
 - **Absorbing high and increasing levels of inexperience**
 - **Providing relief from surge**
 - **Integrating with CAF to increase capacity and effectiveness**
 - **Developing true multi-role force for full-spectrum operations**
- **Key Enablers**
 - **New FTU stand-up with B-Course Syllabus and lead-in training**
 - **50 CAP Basing Plan**
 - **GCS Modernization**
 - **Advanced Tactics, CONOPS, and architecture development**

Theater MQ-1/9 Enabling Concept



Common Positive and Procedural controls provide for dynamic re-tasking, airspace coordination, levels of interoperability and C2.



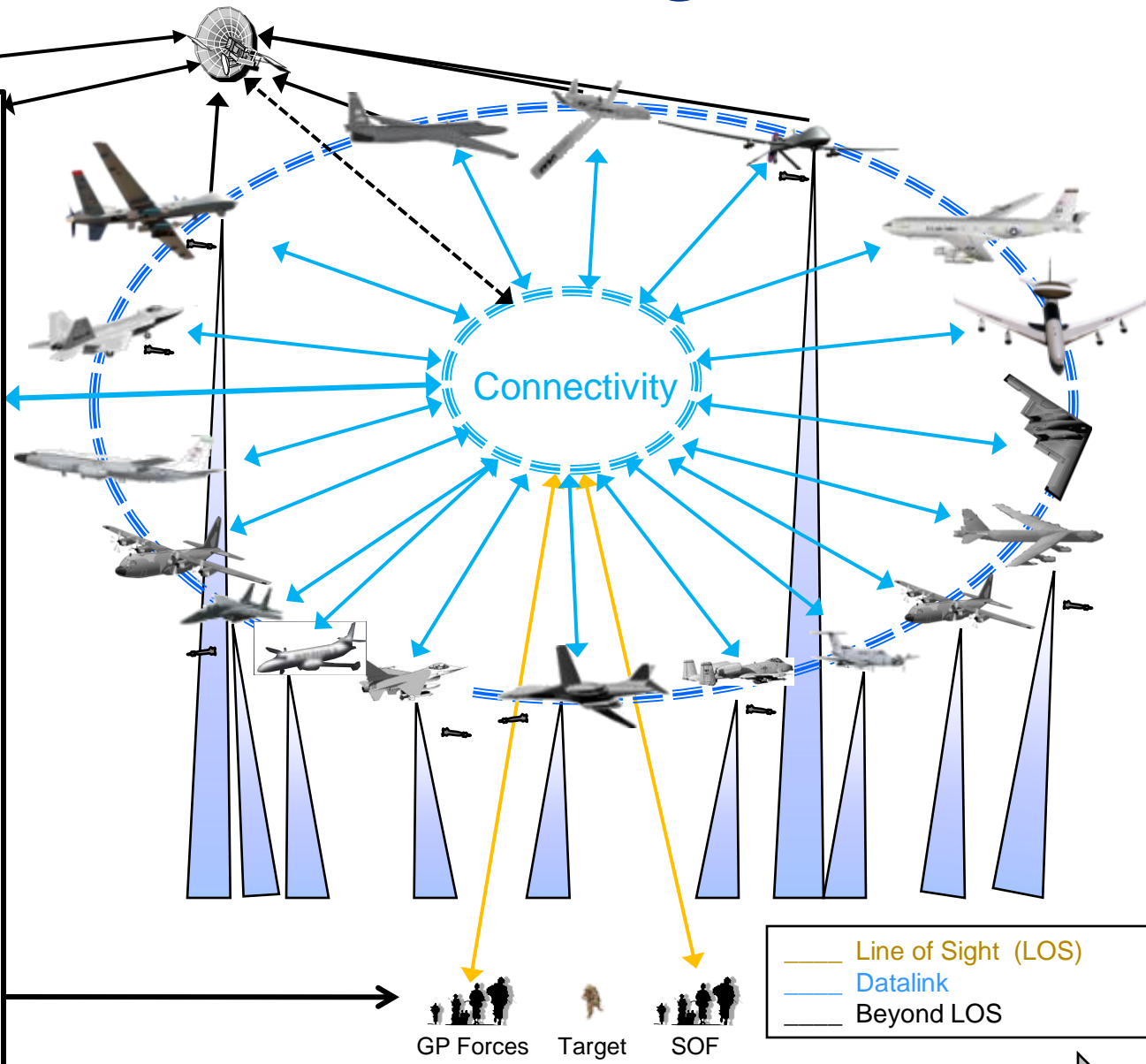
Full Spectrum CAF Integration

Reachback

- Hub for GBS distro
- DCGS
- Other Governmental Agencies
- Civil Authorities

C2 Nodes

- Mission Control Element
- JFLCC
- JFC TIP
- CAOC
- CRC
- XX DCGS
- X DCGS
- DCGS JTAC ALO



- Line of Sight (LOS)
- Datalink
- Beyond LOS

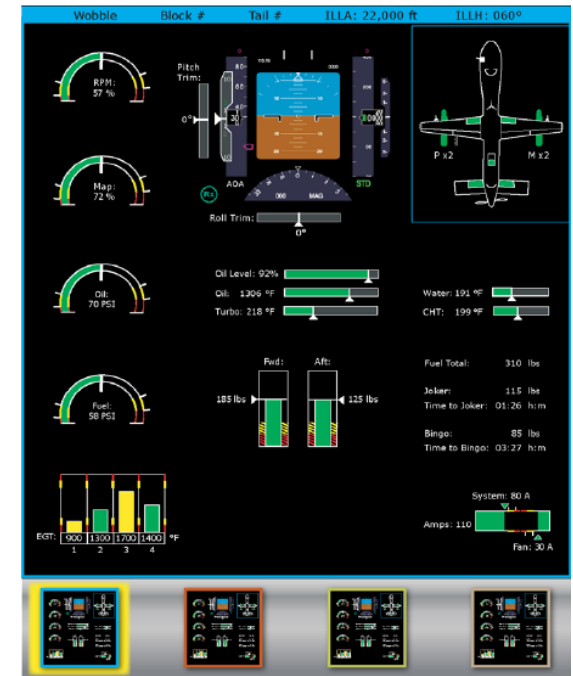
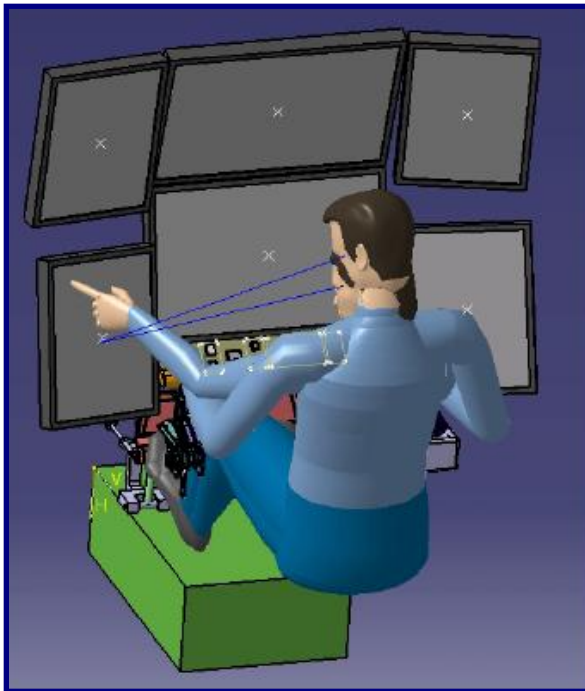
Humanitarian Homeland Irregular Warfare Theater Conflict Regional Conflict Global





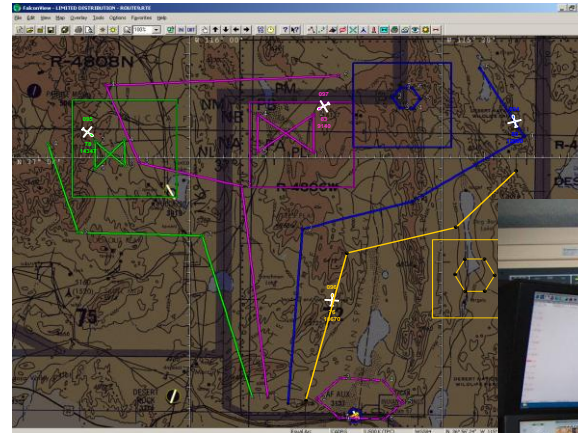
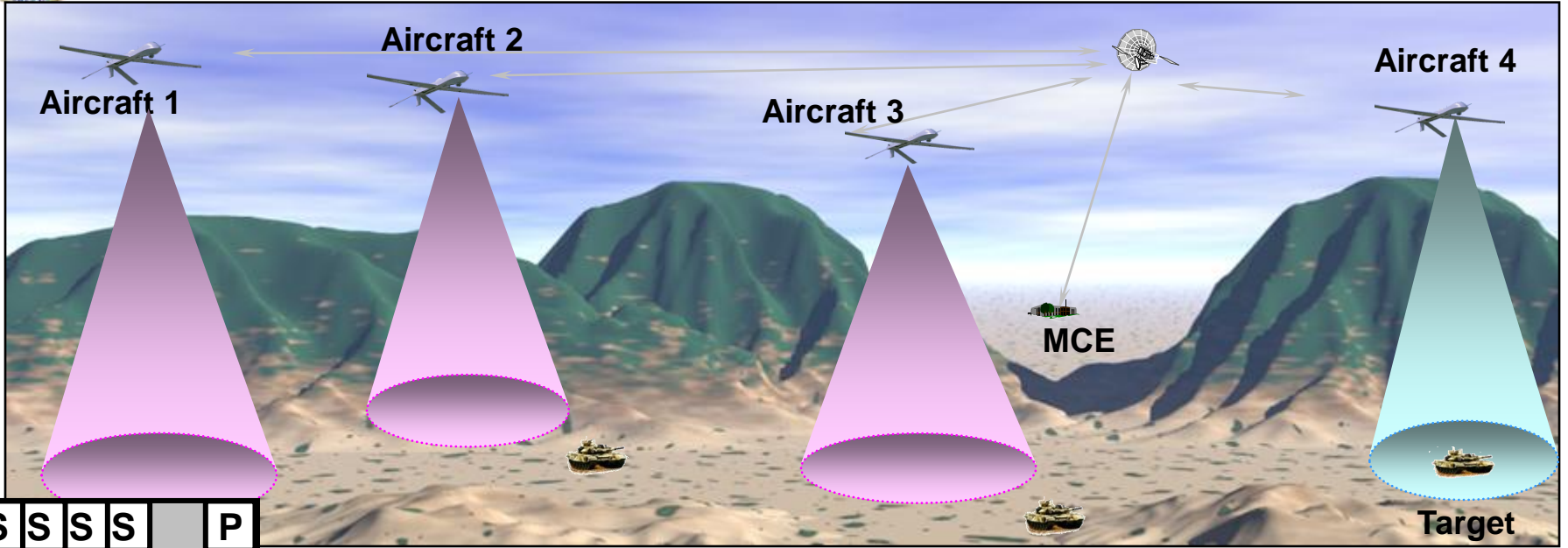
GCS Modernization

- Integrates lessons learned, technology advances and open architecture
 - Phase one: improved displays – fielding FY10
 - Phase two: Cockpit and HMI redesign – FY12
 - Phase three: Open architecture and networked systems – FY16





Legacy Multi-Aircraft



	(094) PS 2	(095) ABANDONED	(096) POINT CLICK	(097) PS 1
Aircraft State	TRAVEL	ABANDONED	POINT CLICK	PRE-PROC
Aircraft Status	3450 RPM, 207.6 MAP	4050 RPM, 23.5 MAP	3500 RPM, 26.5 MAP	4000 RPM, 12.5 MAP
Aircraft Configuration	AGM118P	AGM118P	AGM118P	AGM118P
Aircraft Annunciator		Engines - over temp Flaps - commanded down at high speed		



Multiple Aircraft Operation

- **Networked-Control**
 - Allows all aircraft to be controlled from single station
- **One Mind—One Mission**
 - Dedicated Control Stations for on-target phase
 - Potential for cooperative engagement
- **Global UAS Manager**
 - A pilot who controls multiple aircraft in transit to/from targets or predicted benign missions

