

# ***Headquarters Air Combat Command***

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## ***37<sup>th</sup> Air Armament Symposium***

### ***Core Function Lead Integrator (CFLI) Role and 5<sup>th</sup> Gen Aircraft / Weapons***



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ACC/A8  
5 Oct 2011**

**This Briefing is:  
UNCLASSIFIED**

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# Overview

- **COMACC CFLI duties / ACC Core Function Teams (CFTs)**
  - CFT interaction with AAC, AFRL, and Industry
- **Agile Combat Airpower & ACC-led CFMPs**
- **5th Gen Aircraft / Weapons**





# Background

## SCFs and CFLIs

*"The Air Force's 12 Service Core Functions... form a reference point for helping the service mold its strategic priorities, risks, and tradeoffs."*

*- Secretary of the Air Force Michael Donley*

*"Each Airman will wake up every day to perform a job within this set of 12 core functions, providing Global Vigilance, Reach and Power in support of the Joint fight."*

*- Chief of Staff of the Air Force Gen Norton A. Schwartz*

**▪ Core Function Lead Integrators (CFLIs) – SECAF/CSAF-designated leaders who serve as the principal integrators for their assigned SCFs and the corresponding CFMPs. CFLIs guide SCF maturation and SCF-related investments by developing SCF strategy in collaboration with key stakeholders across the Air Force, including HAF functionals, MAJCOMs and the ARC.**

- FY13 CFLI CFMPs briefed to CSAF: Dec 10 - Feb11**
- FY13 CFLI Investment POMs to HAF: Mar 11**
- FY14 CFLI CFMPs to HAF: Aug 11**
- AF Integration of CFMPs into AF Plan: Sep – Oct 11**





# CFLI Assignment

	Core Function Lead Integrators (in green) & OCRs (indicated by checkmarks)											HAF
	ACC	AETC	AFGSC	AFMC	AFRC	AFSOC	AFSPC	AMC	NGB	PACAF	USAFE	
Nuclear Deterrence Ops	✓	✓	AFGSC/CC	✓	✓	✓	✓	✓	✓	✓	✓	A10
Air Superiority	ACC/CC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A3/5
Space Superiority	✓	✓	✓	✓	✓	✓	AFSPC/CC	✓	✓	✓	✓	A3/5
Cyberspace Superiority	✓	✓	✓	✓	✓	✓	AFSPC/CC	✓	✓	✓	✓	A3/5, A6
Global Precision Attack	ACC/CC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A3/5
Rapid Global Mobility	✓	✓	✓	✓	✓	✓	✓	AMC/CC	✓	✓	✓	A3/5
Special Operations	✓	✓	✓	✓	✓	AFSOC/CC	✓	✓	✓	✓	✓	A3/5
Global Integrated ISR	ACC/CC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A2
Command and Control	ACC/CC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A2, A3/5, A4/7, A6
Personnel Recovery	ACC/CC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A3/5
Building Partnerships	✓	AETC/CC	✓	✓	✓	✓	✓	✓	✓	✓	✓	IA
Agile Combat Support	✓	✓	✓	AFMC/CC	✓	✓	✓	✓	✓	✓	✓	AQ, A1, A3/5, A4/7

- **ACC staff evolving to support COMACC's role as the CAF CFLI**
  - ACC building 5x Core Function Teams led by O-6s\*
  - Want to ensure all “stakeholders” involved in CFLI Requirements & PPBE activities



# ***ACC Core Function Teams***

- **O-6\* Chief for each of the 5 Service Core Functions ACC has lead on**
  - Core teams built “out of hide” from ACC/A2, A3, A5, A8, AFC2IC... similar to WSTs
  - Leads AF integration efforts...engages with all stakeholders
  - Responsible for SCF issues across PPBE / RAT processes
    - Unity of effort across processes, “one voice” advocacy
  - Team Chiefs
    - C2 CFT                      Col David “DJ” Baylor (\*SES Mr. Stan Newberry)
    - AS CFT                      Col Ed “Yard” Corcoran
    - GPA CFT                    Col Mel “Jumel” Peterson
    - GLISR CFT                Col Scot Gere
    - PR CFT                    Col(s) Bernie “Jeep” Willi
- **CFTs / ACC participate with Industry through many venues**
  - AFRL’s IR&D consortiums (next IR&D meeting, WPAFB Nov 11)
  - Technology Information Exchanges hosted by ACC/A8
  - ASC Industry Day, AFA Conventions, Air Armament Symposium



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# ***Guiding Strategy Agile Combat Airpower***

- Pursue capability to resolve current conflict, succeed in IW, prevail against peer competitor, and deter emerging threats
- Sustain combat effectiveness while increasing efficiency
- Enhance readiness by improving aircraft sustainment and expanding training for realistic combat environments
- Advance key munitions that support a more capable, integrated force
- Selectively modernize legacy inventories to integrate with 5<sup>th</sup> Generation force and prevail in increasingly contested domains
- Moving towards a fully enabled 5<sup>th</sup> Generation force
- Improve Total Force Integration by “right-sizing” associations
- Develop fiscally constrained planning options
- Trade capacity for capability, if required, to develop an operationally comprehensive force





# ***FY14 CFMP Status***

- Five ACC CFMPs sent to HAF 30 Aug
  - HAF integration in Sep / Oct
- Planning Force Proposals (PFPs) based on FY13 planning force starting point
  - Updated with FY13 POM reality as able
  - Moderate Risk Force
  - TOA Force
  - TOA-10% Force (is this the new “left” bookend, or is TOA – 15% more realistic?)



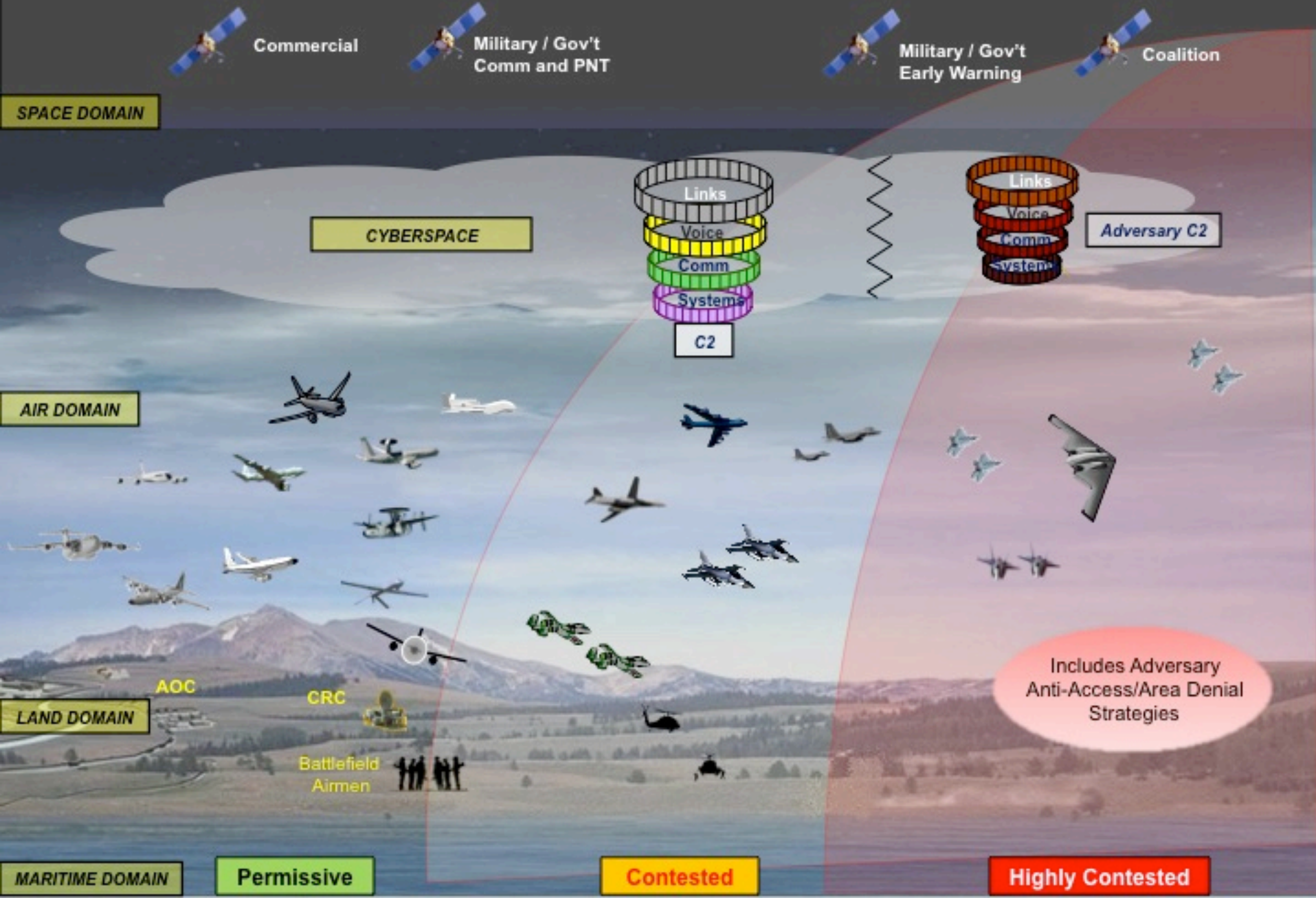




# Overview

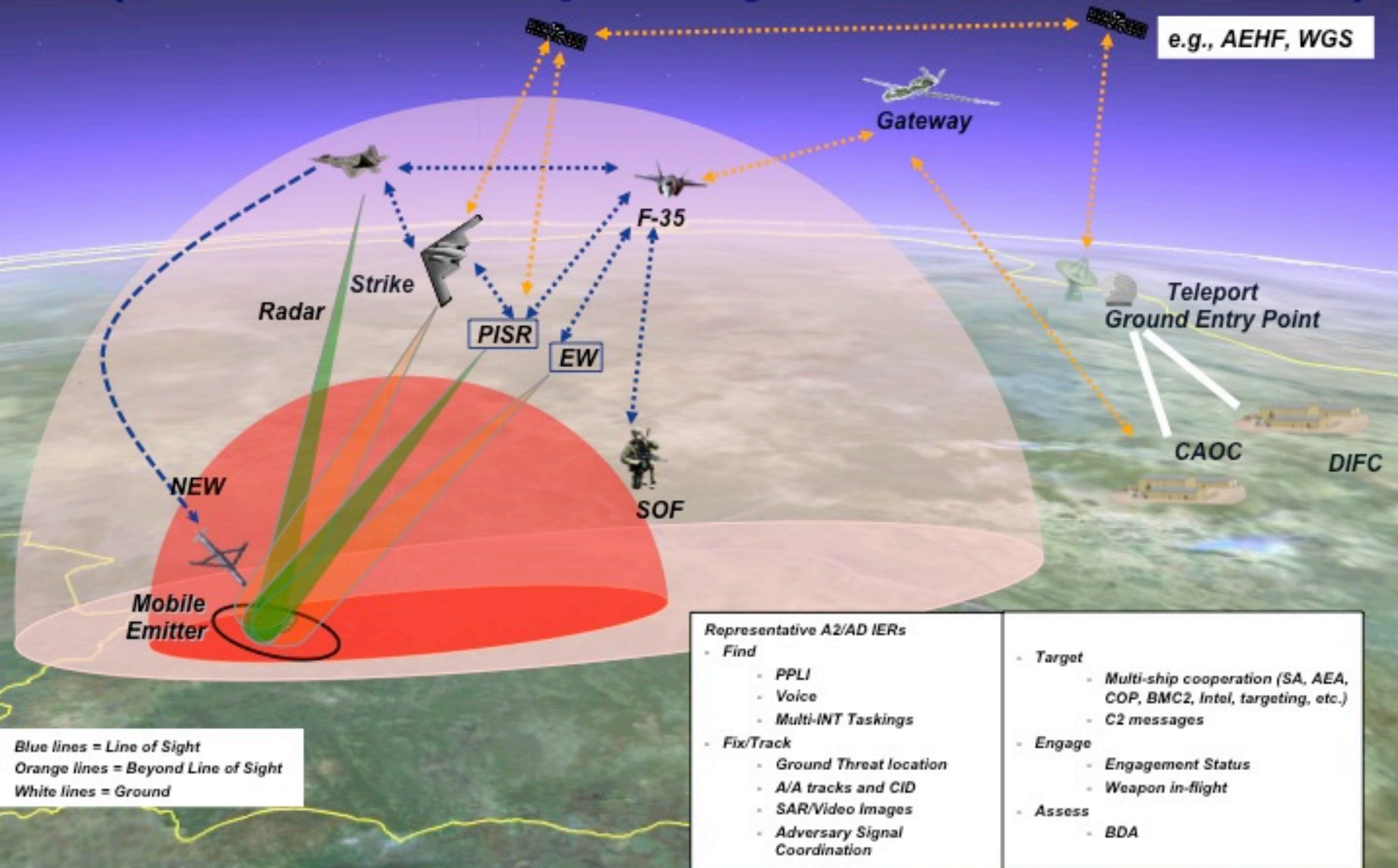
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# OPERATING ENVIRONMENT





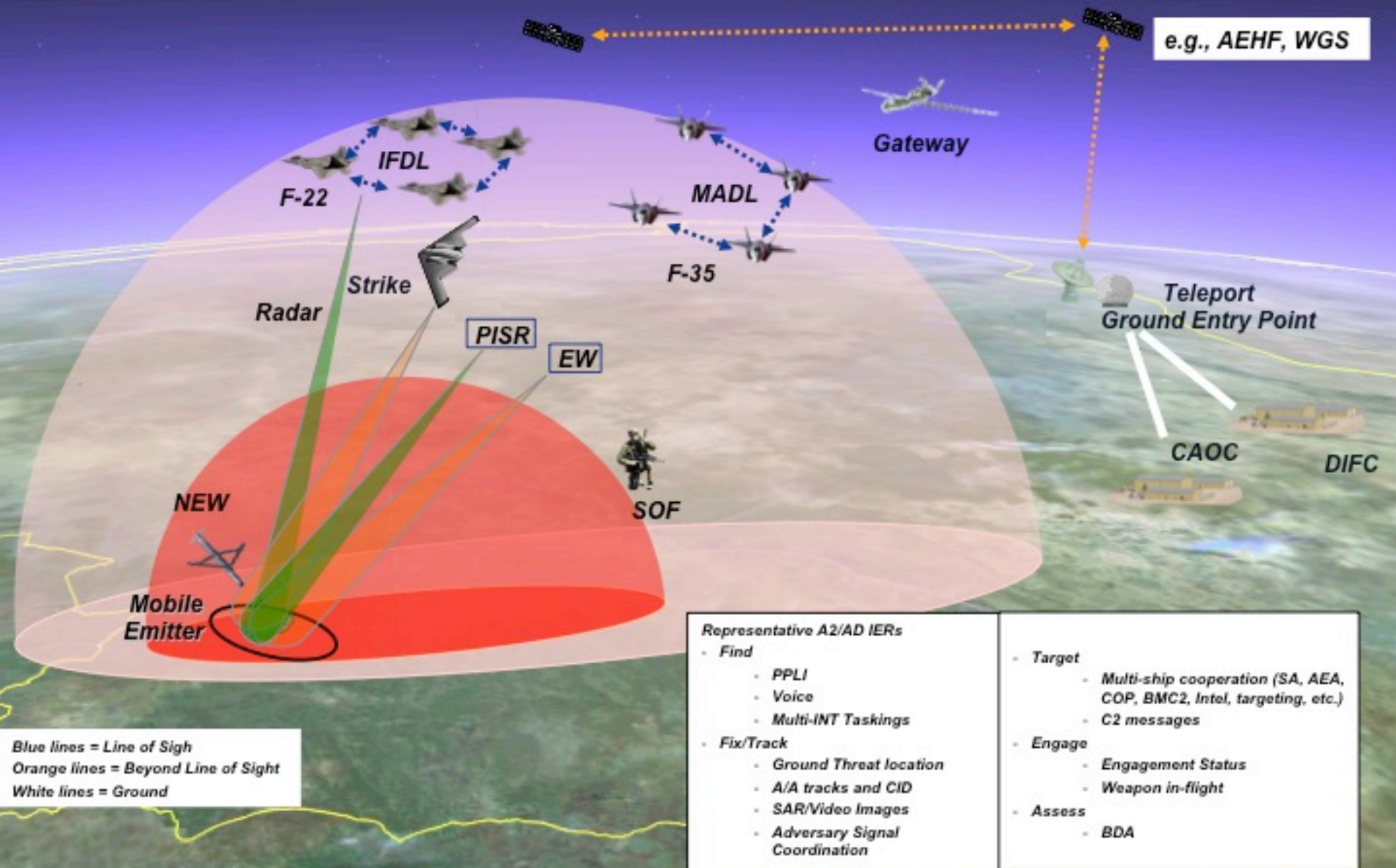
# Notional FoS A2/AD OV (AJ/LPI/LPD Capability Need Between FoS)







# Notional FoS A2/AD OV (AJ/LPI/LPD **Reality** Between FoS)

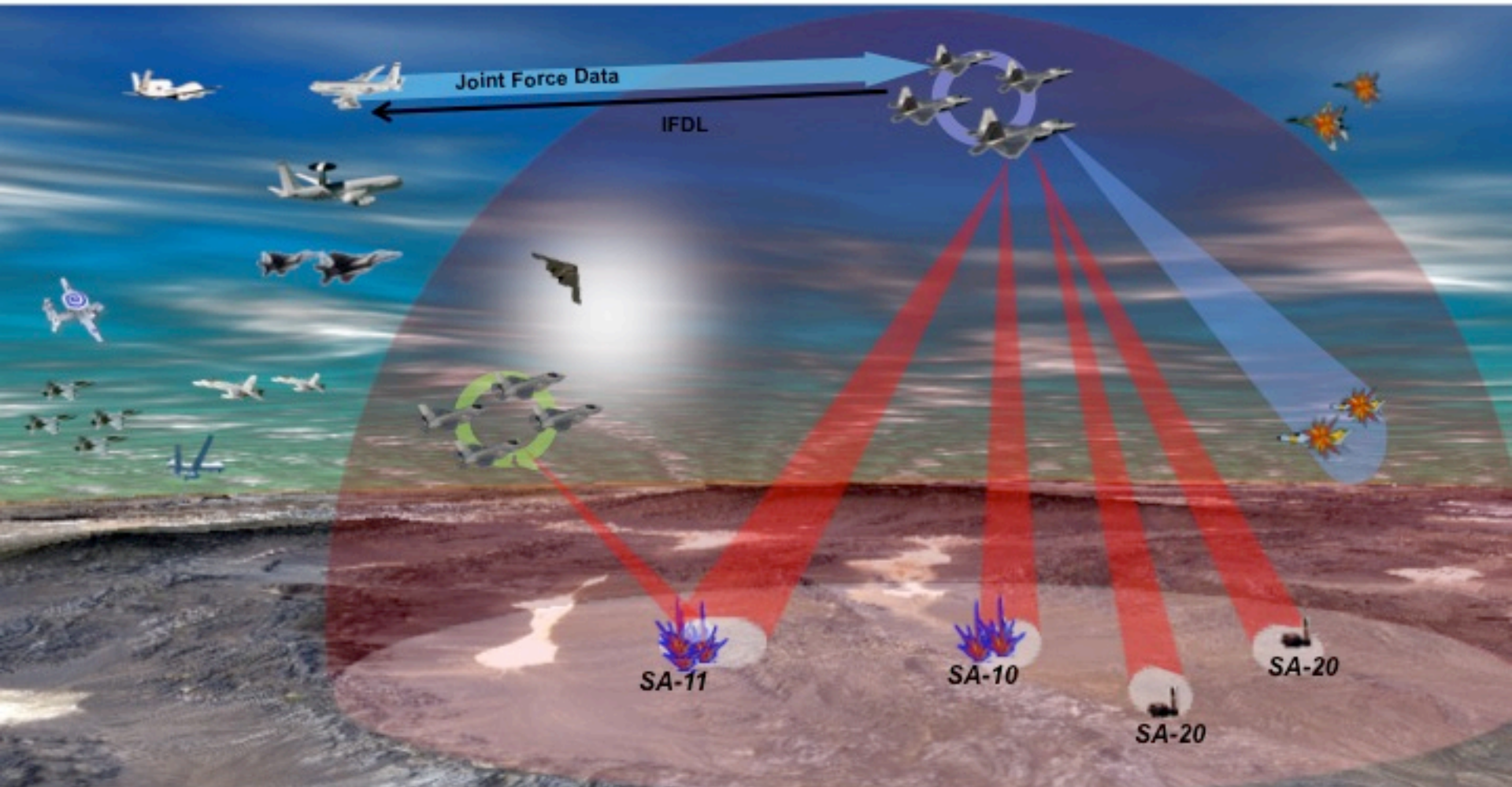






# 5<sup>th</sup> Gen CONOPS

## *Anti-Access Battlespace*



***Counter Air and autonomous engagement of multiple SAM systems from inside High Threat areas***



# ***Initial 5<sup>th</sup> Gen Capabilities***

- **F-22**
  - Current: AIM-9M, AIM-120C, GBU-32, GBU-39 (SDB I)
  - 3.2B (2017): Delivers critical capes; fielding timelines at risk
    - AIM-9X, AIM-120D
  - 3.2C: Content TBD; balance between capabilities / mandates...and fiscal challenges
- **F-35**
  - IOC with Block 3F configuration
  - Internal
    - PGU-23, GBU-12, GBU-39, GBU-31, AIM-120C
  - External
    - GBU-12, AIM-9X
- ... with 4<sup>th</sup> Gen support ... for a while!
- LRS-B to follow





## ***Weapons Roadmap for 5<sup>th</sup> Gen A/C***

- Tie platform & weapons capes within CFMPs
  - Air Superiority
  - Global precision Attack
    - Intra-theater Strike (ITS)
    - Close-Control Strike (CCS)
    - Long Range Strike (LRS)
    - Hard & Deeply Buried Targets (HDBT)
  - ...and C2 – must make the “lightning bolts” work!
- More versatile than legacy weapons and capable of crossing over many of the traditional capability areas
  - Increased flexibility and reduced payload to achieve multiple effects
- Future weapons with improved performance (advanced energetics; scalable effects) in smaller package
  - Increase loadout and mitigate impact of retiring current force structure

***Fully capable in A2/AD environment***





# *Examples of Future Weapons Technology Needs*

- **Attributes:**
  - Dual Role (A/A & A/G)
  - Shoot from standoff
  - Deeper penetration
  - Electronic Protection
  - Component miniaturization
  - Speed (low Mach to speed-of-light)
  - Advanced seekers with enhanced EP
  - Minimize collateral damage
  - Selectable effects (dial-a-yield)
  - Advanced energetics (higher yields)
  - Advanced fuzing
  - Max “backwards” compatibility
- **Timing a challenge**



*Directed Energy*



*Advanced Weapons  
Data Link*



*Supersonics / Hypersonics*





## *Summary*

- CFTs should help integration effort and staying on flight plan / on story; goal is effectiveness and efficiency
- Industry / DOD team is providing the Warfighter with effective weapons for today's battle...but keep after the game-changers for tomorrow's fight; timing challenge
- Aggressively improve the inventory within fiscal constraints; balance capability and capacity
- Don't shortchange C2 aspect of weapons capability... must make the "lightning bolts" work
- Partnership critical to meet the challenges of tomorrow -- **we're out of money; it's time to think!**

***Thank you for your outstanding support of the Warfighter***