



# Air Force Life Cycle Management Center



AFLCMC...Providing the Warfighter's Edge

## Aging Aircraft & New Weapons



**U.S. AIR FORCE**

**Brig Gen Michael Schmidt  
Program Executive Officer  
Fighters and Bombers**



# Fighter/Bomber Snapshot



## FIGHTERS



283

A-10 (WWA)

F-15 (WWQ)



212 / 23 / 218



F-16 (WWM)

966

F-22 (WWU)



186

\*F-35 (WWJ)



\*OT&E Only

## BOMBERS



62

B-1 (WWD)

B-2 (WWZ)



20

B-52 (WWD)



76

A-10 (WWA)  
B-1/B-52 (WWD)  
B-2 (WWZ)  
F-15 (WWQ)  
F-16 (WWM)

F-22 (WWU)  
Dev & Integ (WWB)  
Spec Prgms (WWG)  
Strike Syst (WWS)  
\*F-35 (WWJ)

## INTERNATIONAL PARTNERS

F-15 Saudi Arabia  
(WWQ)



A-29 Afghanistan  
(WWB)



F-16 Iraq  
(WWM)



And many more...



# The Many Faces of F/B

## A-10 Div



SPM : Ms. Dawn Sutton  
Deputy: Lt Col Ken Johnson

## Dev & Integ Div



Chief: Col Anthony Thomas  
Deputy: Mr. Steven Topper

## Special Prgms Div



SPM: Col Scott Rothermel  
Deputy: Ms. Stephanie Edquid

## F-16 Div



SPM: Col Jeff Gates  
Deputy: Mr. Greg Brown

## F-15 Div



SPM: Col Timothy Bailey  
Deputy: Mr. Bob Zwitch

## Strike Systems Div



Chief : Mr. Stephen Uyeata  
Deputy: VACANT

## F-22 Div



SPM: Col Anthony Genatempo  
Deputy: Mr. Ed Stanhouse

## B-1/B-52 Div



SPM: Col Lance Reynolds  
Deputy: VACANT

## B-2 Div



SPM: Col William Patrick  
Deputy: Mr. David Garofoli

## F-15SA Div



SPM : Col Greg McNew

## F-35 Div



Chief: Mr. Michael Karraker  
Deputy: VACANT

## EN



Mr. Douglas Atkinson

## FM



Ms. Kimberly Keck

## PK



Mr. Dennis Lovejoy

## LG



Mr. Lansen Conley

## OM



Ms. Deborah Webb

## PEG Chief



Lt Col Tony Paulson

## Security



Mr. Kevin Sherrick

## Superintendent



CMSgt Jason Gall

## Sr IMA



Col Douglas Martin

PEO/Director  
Brig Gen Michael Schmidt

Deputy PEO/Director  
Mr. Brian Rutledge

F-35 Div = OT&E Only

# Recent Achievements (FY 16)

## INNOVATION

### New Ideas

- Additive Manufacturing
- Laser Depaint
- Data Transfer Device
- Open Mission Systems
- SAFe/Agile

### Quick Fixes

- A-10 Canopy Lug
- F-15 Cabin Pressure Monitor
- F-16 Canopy SIL Longeron
- B-2 Wind Screen
- A-29 Bent Fuel Tubes

### Long Term Fixes

- SLEP/FSFT (F-15, F-16, B-1)
- Radar upgrades (F-16, F-15)
- A-10 Wing Replacement
- Communications Upgrades

## CAPABILITY DELIVERIES

### FIGHTER AND BOMBER AIRCRAFT

**6 A-29**

**17 F-16**

### AIRCRAFT MODIFICATIONS

**99 B-1 Mods**

**197 A-10 Mods**

**151 F-22 Mods**

**76 B-2 Mods**

**29 F-15 Mods**

**9 A-29 Mods**

**70 B-52 Mods**

**231 F-16 Mods**

### DEPOT THROUGH-PUT

**13 B-1**

**41 A-10**

**27 F-22**

**2 B-2**

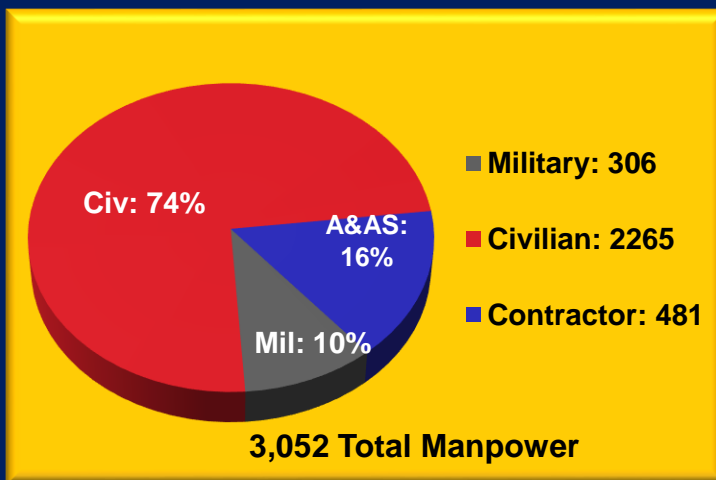
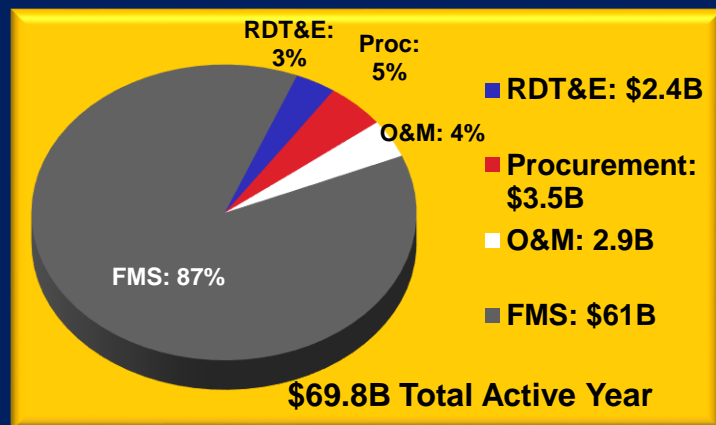
**84 F-15**

**16 B-52**

**222 F-16**

**~31,626 Combat Mission Flying Hours Last Year**

# Fighters and Bombers Portfolio

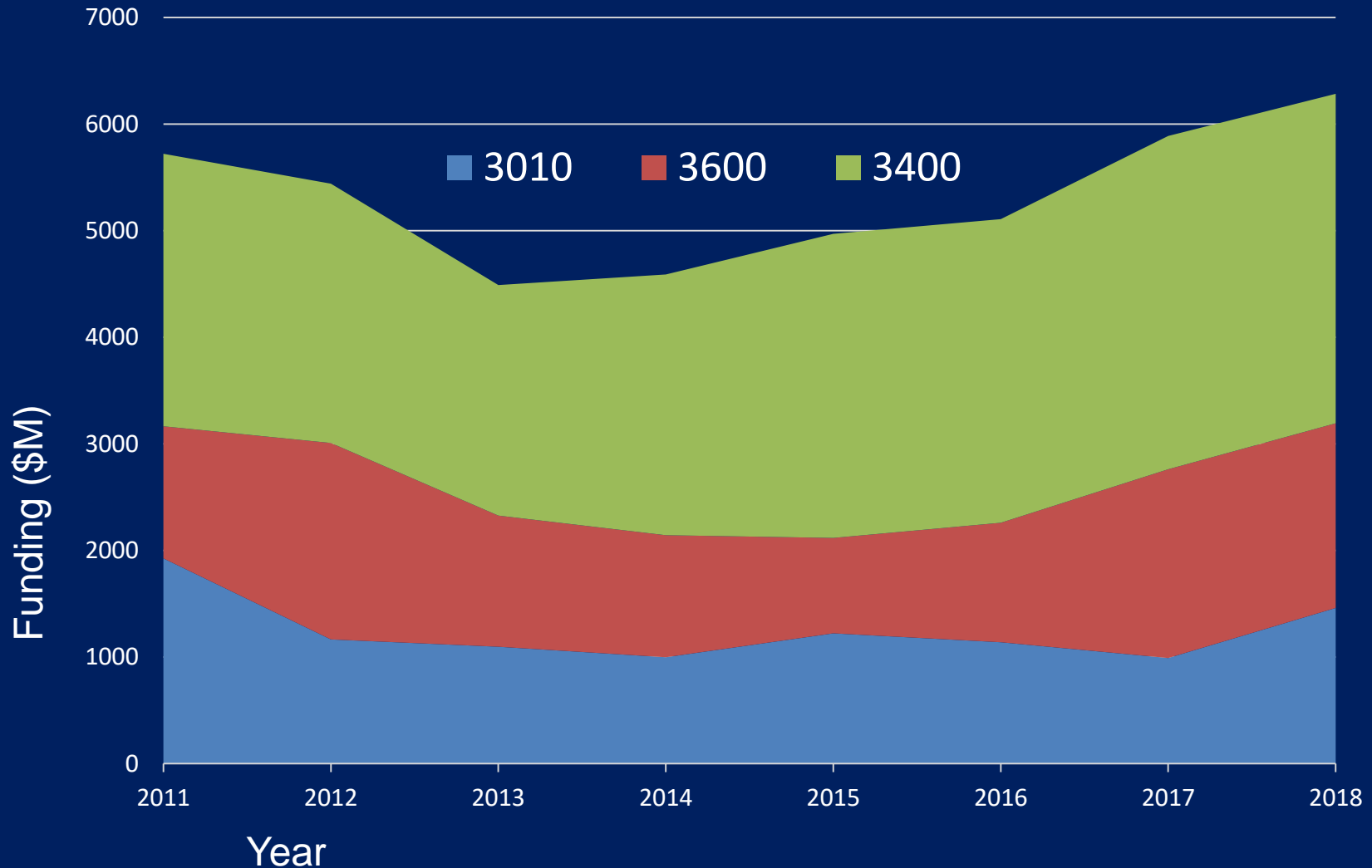


ACAT I - 4  
ACAT II - 14  
ACAT III - 66

FMS - 72  
AML Exempt - 14

**Fighters and Bombers Mission: Develop, produce, modernize and support US and coalition partner fighter and bomber aircraft weapons systems and subsystems**

# Annual Funding by Appropriation



# B-52



IOC 1952





# B-52 Weapons Integration

- Common Rotary Launcher





# F-15



IOC 1975



# F-15 Weapons Integration

- AIM-9X Block II
- SDB-II
- AMBER Demo
- JASSM-ER
- B-61



# A-10



IOC 1977



# A-10 Weapons Integration

- APKWS



# F-16



IOC 1980





# F-16 Weapons Integration

- APKWS II
- AIM 9X Block II
- Laser SDB
- MALD-J Mod 7





# B-1



IOC 1986



# B-1 Weapons Integration

- LRASM
- IBS



# B-2



IOC 1997



# B-2 Weapons Integration

- Flex Strike
- GBU-57 A/B
- B61-12
- JASSM-ER



# F-22



IOC 2005





# F-22 Weapons Integration

- AIM-9X
- AIM-120D





# A-29 Super Tucano



IOC 2016



# A-29 Weapons Integration

- APKWS
- GBU-58



# Standard Interfaces

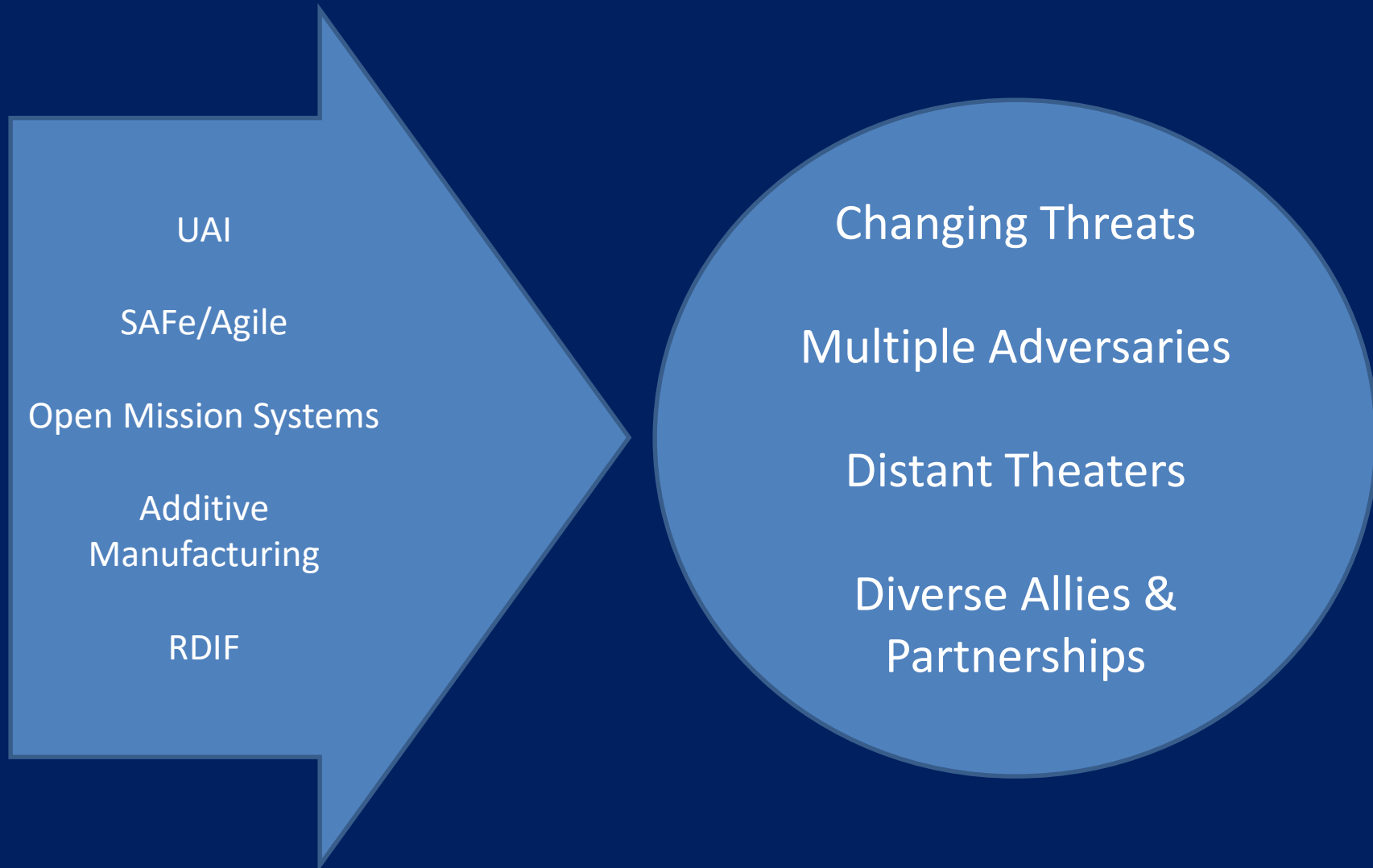
## Universal Armament Interface

- Common data requirements
- Limited hardware changes
- OFPs won't have to embed weapon or display data

## Open Mission Systems

- Standard hardware and software interface for aircraft capability upgrades
- New electronics plug into standard hardware rack with minimal hardware or software mods to aircraft

# Toward The Third Offset....



A large radio telescope dish is silhouetted against a vibrant sunset sky. The sun is low on the horizon, creating a bright orange and yellow glow that transitions into a deep blue at the top. The telescope's structure, including its support legs and secondary dish, is clearly visible in black against the colorful background. The word "Questions?" is overlaid in a large, white, sans-serif font across the center of the image.

# Questions?



# Rapid Development Integration Facility

## 29 Past Projects

B-1 Safe/Release Consent Switch  
B-1 Bomb Switch  
B-1 Antenna Plate  
B-2 Electronic Flight Bag  
B-2 Cable Kits  
B-2 LRU Tool  
B-2 AEB Power Study  
B-2 Antenna Brackets  
B-2 Amplifier Bracket  
B-2 Bomb Lanyard  
B-2 Equipment Rack  
B-2 COLT Interface Box  
B-2 DAGR  
B-2 Special Project #4  
B-52 Munitions Kit  
B-52 Lightning Arrestor Bracket  
B-52 HIS Cable Set  
B-52 AWIP Cable Set  
F-15 Model  
F-15 ANG Display  
F-15 Universal Pod  
F-15E UON  
F-22 Oxygen Sensor  
F-22 Air Valve  
F-22 QD Valve  
F-22 Pass-Through Valve  
F-22 ARC-210 Trays  
COLT  
Special Project #6

Mission  
Provide rapid  
adaptive  
engineering  
solutions for  
urgent Warfighter  
needs - Instill an  
innovative aircraft  
development,  
integration and  
prototyping  
culture back into  
the workforce

## 11 Current Projects

B-1 Sniper Displays  
B-2 AEB Power Box  
B-2 Antenna Travel Limiter  
B-2 Multi-Position Lifting Beam  
B-52 Anti-Skid Panel  
B-52 Channel Splice  
B-52 CONECT Ground Station  
B-52 Tail Cone Cover  
F-15 Cabin Pressure Monitor  
F-15 IBS Re-work  
F-22 Oxygen Depleter



# Competition/Small Business

- Sole Source vs Competition
  - Often an OEM is the single responsible source for modifications but can compete major components with Gov't oversight/insight
    - F-15 EPAWSS
    - F-15 IRST
    - B-2 DMS-M
  - Drives down costs
  - Compensates for insufficient SPO manpower for full competition
  - Provides opportunities beyond vendors' favorite suppliers

## Small Business

Fighters and Bombers Small Business Set-asides are approximately \$44M/year, but...

- Over \$370M subcontracted to small businesses per year through larger primes