

330th Tactical Airlift Sustainment Group

Combat Ready, Anytime, Anywhere



Requirements Symposium

9 Nov 05

Marian Fraley
Director, 330th Tactical Airlift Sustainment Group



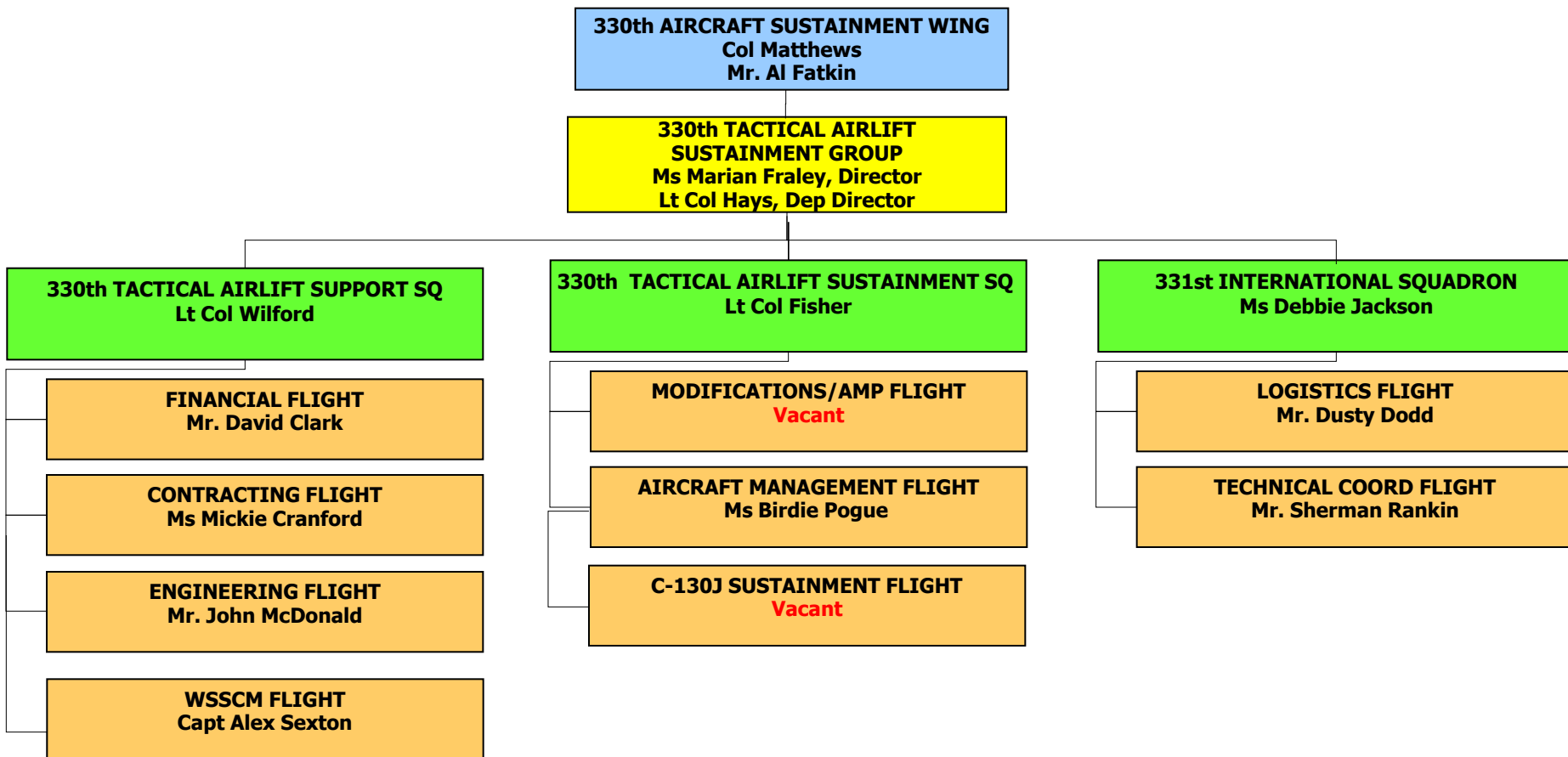
Overview

- **Mission--Organization**
- **Locations**
- **330th Tactical Airlift Support Squadron**
 - **Engineering**
 - **Contracting**
 - **Finance**
 - **WSSCM**
- **330th Tactical Airlift Sustainment Squadron**
 - **Aircraft Maintenance Management**
 - **E/H Mods & AMP**
 - **C-130J Sustainment**
- **331st International Squadron**
 - **Poland Update**
 - **Iraq Update**
 - **Saudi Arabia AMP**
- **330th Tactical Airlift Sustainment Group Summary**





Organization





What We Do

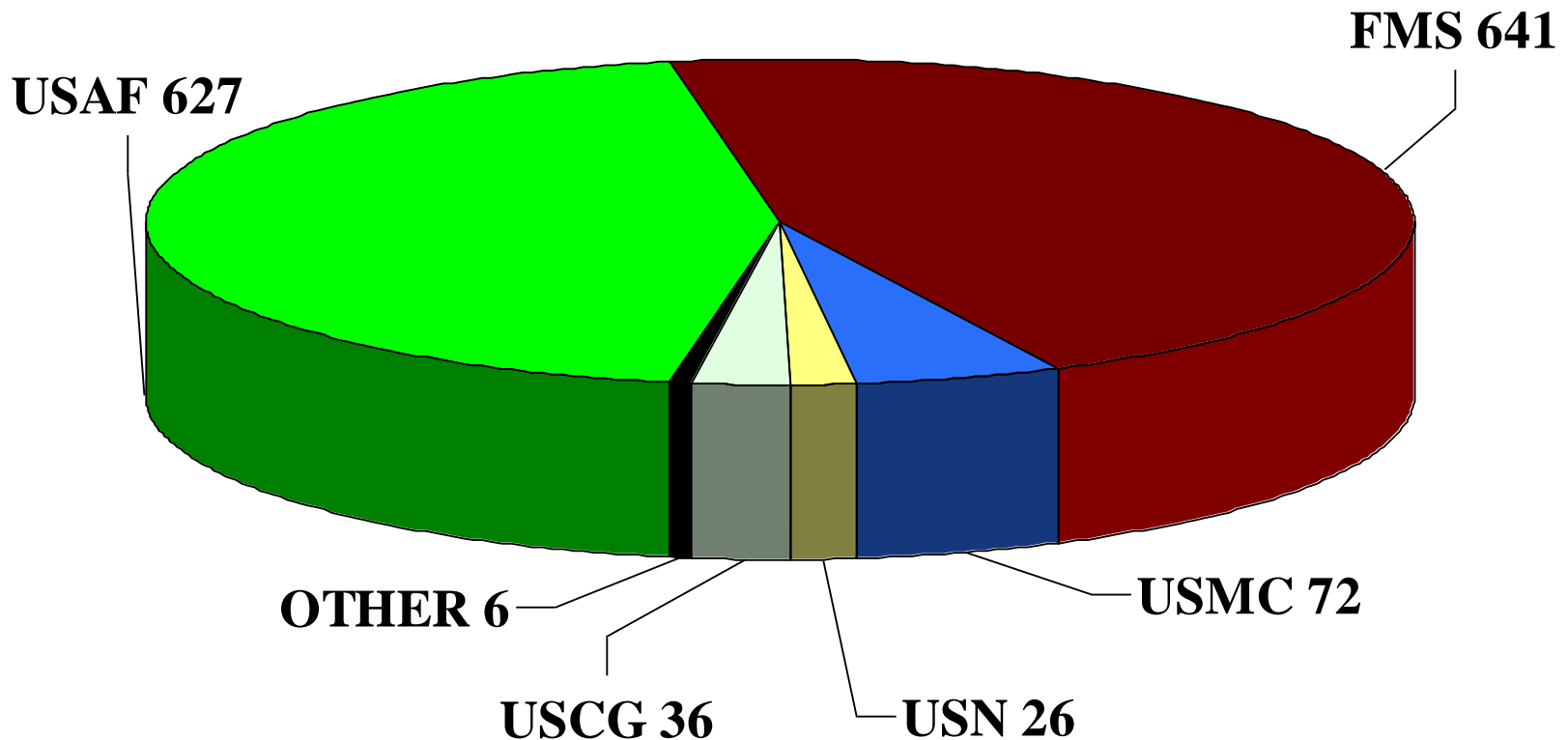
- **Acquisition Support**
 - **C-130J Production & Block Upgrades**
- **Modernize Herc Fleet**
 - **Avionics Modernization Program**
 - **C-130E/H Upgrade Mods**
 - **Center Wing Box Replacement**
- **Sustain US C-130E/H/J Fleet**
 - **Weapon System Supply Chain Management**
 - **OSS&E**
 - **Aircraft Maintenance Management**
 - **C-130J Long Term Sustainment**
- **Sustain & Support International C-130s**





C-130 Customer Base

Total C-130 Active Aircraft = 1408

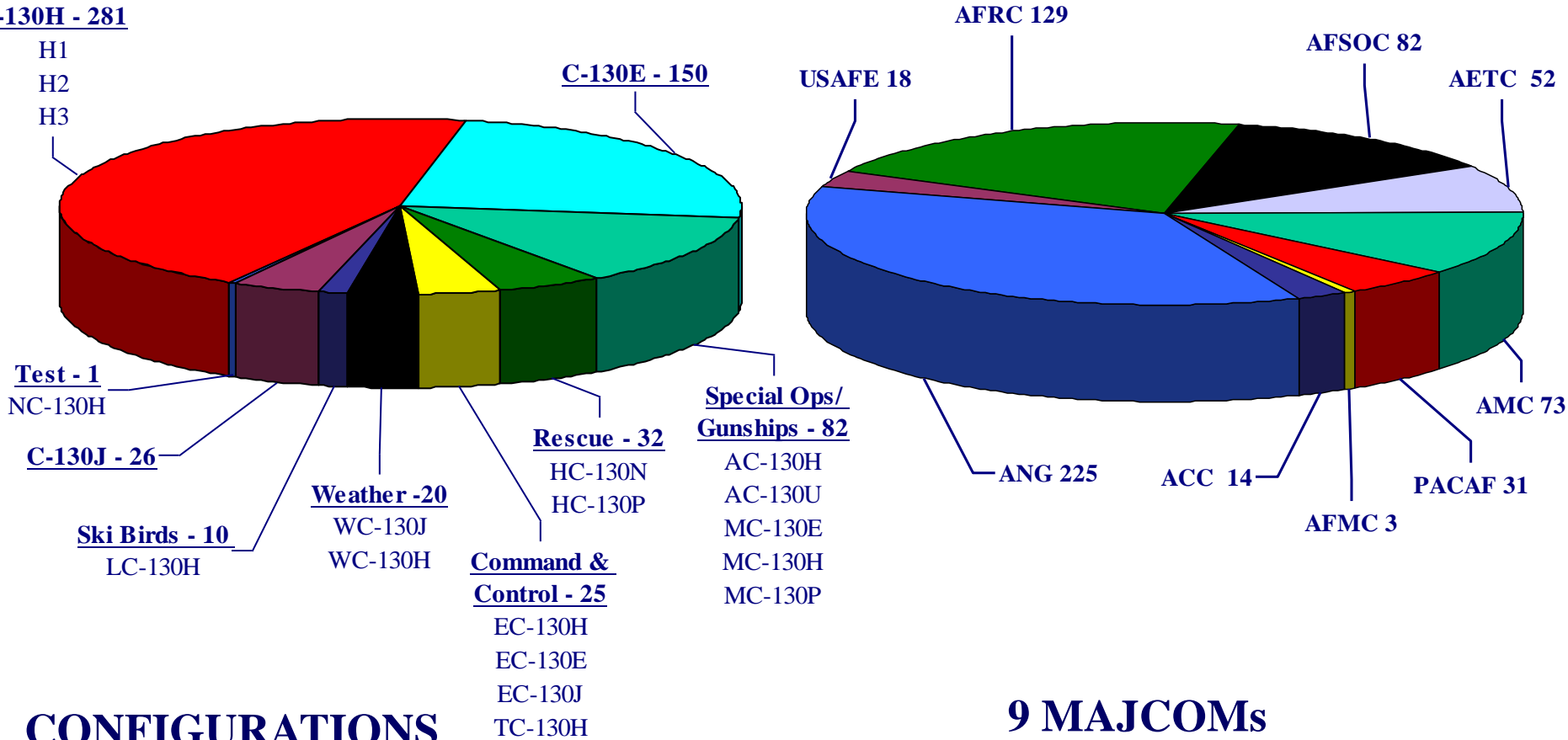


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C-130 FLEET DEMOGRAPHICS

Total USAF Active Aircraft = **627**



CONFIGURATIONS
26 MDS

9 MAJCOMs

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Support Squadron

Lt Col Wilford

- Mission--Organization
- Locations
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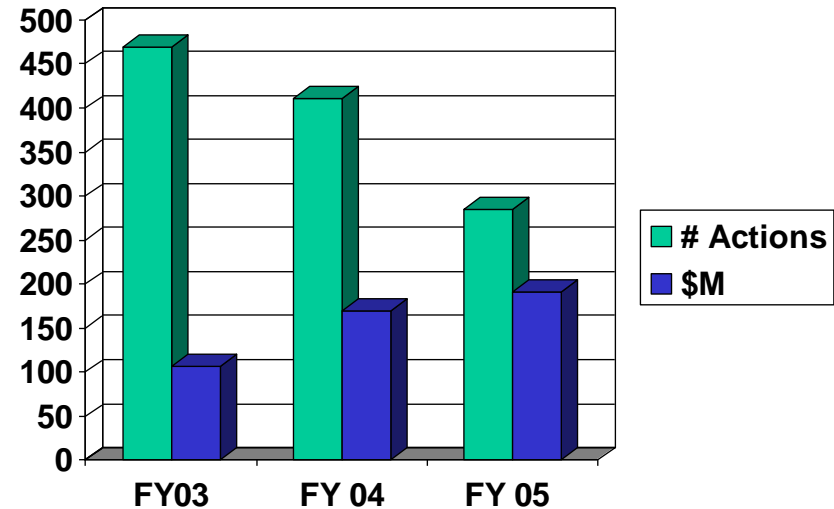
Engineering Flight

- **Engineering Authority – OSS&E - Air Worthiness**
 - **Structures**
 - **Corrosion, Fatigue, Finite Element Analysis (FEA), Aircraft Structural Integrity Program (ASIP), Static Loads and Strengths**
 - **Systems**
 - **Flight Controls, Hydraulics, Fuel, Engine/Propulsion, Environmental Control, Functional System Integrity Program (FSIP)**
 - **Electrical**
 - **Generators, Distribution/Switching, Synchrophasers, Power Quality, Fusing (Wire/System Protection), Lighting**
 - **Avionics**
 - **Systems Integration, Navigation, Communications, Flight Control & Engine Instruments, Defensive Systems**
- **Aircraft Structural Integrity Program**
- **Mechanical Systems Integrity Program**
- **Sustainment Engineering for C-130 Fleet**



Contracting Flight

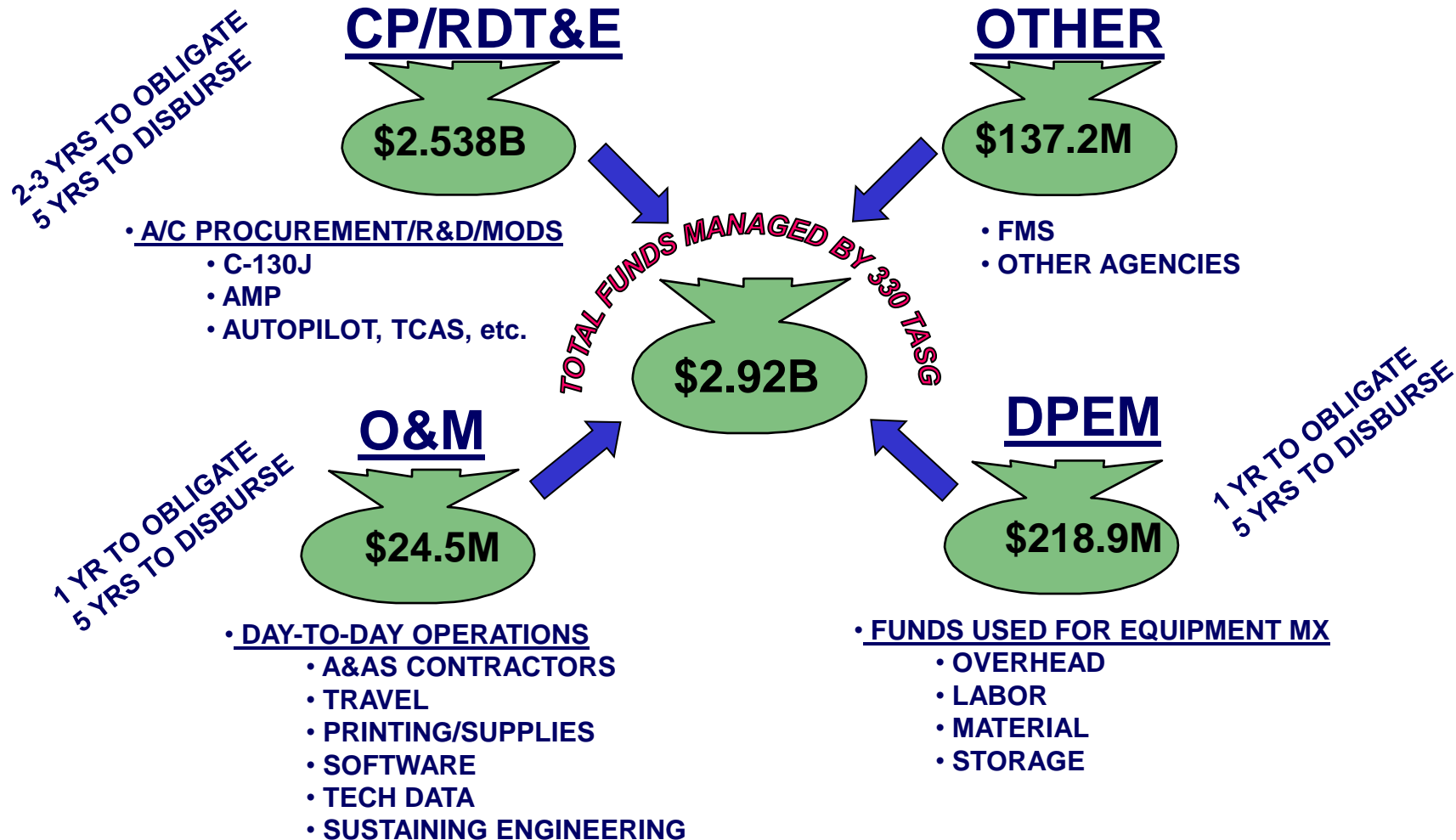
- 370 Active Contracts
- 116 Prime Contractors



- New Programs In Work
 - Center Wing Box Replacement Program
 - C130J Long-Term Sustainment Contract
 - Real Time Weight and Balance
 - Poland Modification Program



Financial Management Flight





Weapon System Supply Chain Management (WSSCM) Flight

- **e-Log 21**
 - **Increase weapon system availability**
 - **AMC lead command involvement**
- **Improve & manage customer/supplier relationships and expectations**
- **Reduce Aircraft Total Ownership Cost**
- **Streamline & integrate processes throughout value chain**



C-130 Commodities Competitive Sustainment

	FY06	FY07	FY08	FY09	FY10
Rqmts	12 K	96 K	159 K	159 K	159 K
Funded	12 K	0	0	0	0
Unfunded	0	96 K	159 K	159 K	159 K

- **Adapter Assembly Latch** **6 K**
- **Identification Marker Set** **4 K**
- **Protective Panel** **2 K**



Support Squadron Challenges

- **Center Wings**

- **Restrictions & Groundings**
- **IRT on Wing Service Life**
- **Ongoing Teardown**
- **Multiple Inspection TCTOs**

- **Obsolescence**

- **Analog Instruments**
- **APQ-175 Radar**
- **Self Contained Navigation System (SCNS)**

- **Increased Workload**

- **Depot and Field Support Requests**
- **Inspection TCTOs and Aircraft Maintenance**





330 Sustainment Squadron

Lt Col Fisher

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- Locations
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 - Engineering
 - Contracting
 - Finance
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Aircraft Maintenance Management Flight

- **Customer and Supplier Relationships**
- **C-130 Depot Level Maintenance**
 - **Programmed Depot Level Maintenance (PDM)**
 - **Unscheduled Depot Level Maintenance (UDLM)**
 - **Contract Field Teams (CFT)**
 - **Depot Field Teams (DFT)**
 - **Organic and Contractor Support**
- **Technical Orders**



Program Depot Maintenance / Unscheduled Depot Maintenance

PDM	FY03	FY04	FY05	FY06 (Planned)	FY07 (Planned)
WR	44	51	53	48	45
OO	36	32	47	39	38
MA	6	3	0	0	0
ST	0	1	5	5	6
NZ	0	0	1	1	1
TOTAL	86	87	106	93	90
UDLM					
ACTUAL					
	FY03	FY04	FY05	FY06	FY07
C/W	24	23	45	4	N/A
AWT	N/A	N/A	N/A	14	N/A

PDM

WR = RAFB

OO = HAFB

ST - Singapore Technology

NZ = Air New Zealand

UDLM

Depots

Contract Facilities

As of 04 Nov 05



C-130 E/H/AMP Modifications

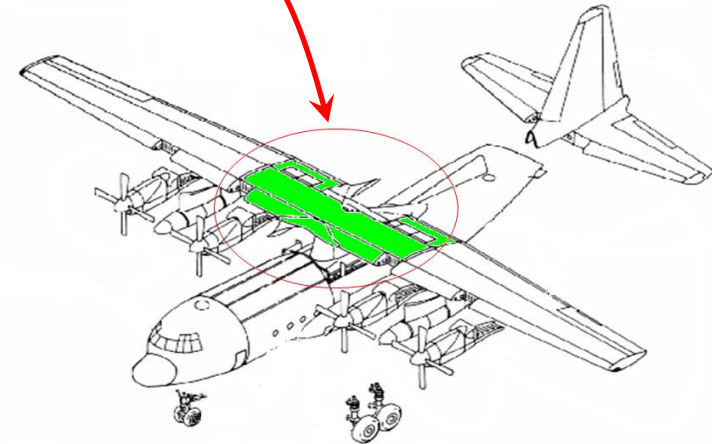
- Center Wing Challenges
- E/H Mods
- AMP Program
- C-130J





Center Wing Challenges

- Aging aircraft structural problems
 - Fatigue cracking
 - Center Wing
 - Spar Caps
- Routine inspections in the field
- Bonded Repair Optimization
- Center Wing Options
 - Inspect / Repair
 - Replace
 - Retire





C-130 Center Wing Replacement Acquisition Strategy

2Q FY05 **Phase I** 3Q FY08

- Converted CWB Kit Effort Awarded 11 Apr 05

3Q FY05 **Phase II** 4Q FY09

- Contract Awarded Sep 05, HC-130N/P NRE and kits
- Capability for C-130H NRE and CWB Kits (HC-130, C-130H, MC-130H)

3Q FY06 **Phase III** 4Q FY15

- Kits: Multiple MDS CWB Kits; Additional For NRE For USN, USCG, FMS and AC-130U/EC-130H

INTRODUCE COMPETITION IN FY10 TIMEFRAME



C-130 Center Wing Program 3-Phased Program Milestones

Event	Date
<input checked="" type="checkbox"/> Phase 1 Contract Award (MC-130H NRE & TKI)	Apr 05
<input checked="" type="checkbox"/> Initial Design Review	Jun 05
<input checked="" type="checkbox"/> Preliminary Design Review (PDR)	Sep 05
<input checked="" type="checkbox"/> Critical Design Review (CDR)	Oct 05
<input type="checkbox"/> MC-130H Input for Trial Kit Install	Oct 06
<input checked="" type="checkbox"/> Phase 2 Contract Award (HC-130N & P NRE & TKI)	Sep 05
<input type="checkbox"/> HC-130N Input for Trial Kit Install	3QFY07
<input type="checkbox"/> HC-130P Input for Trial Kit Install	1QFY08
<input type="checkbox"/> Technical Data Package Delivered	4Q FY09
<input type="checkbox"/> Phase 3 Contract Award	4QFY06



C-130 E/H/AMP Modifications

Program Requirements

- **C-130 LAIRCM Integration**
- **AAR-47 MWS Sensors**
- **C-130 Paratroop Door Threat Scanning Seat**
- **Center Wing Box Replacement**
- **NVIS Compatible Lighting**
- **SAFIRE Look-Out Capability**
- **ETCAS/Modes Elementary on AFSOC Acft**
- **ETCAS/Modes on USAFE Newly Received Acft**
- **C-130 AMP Maintenance Training Device**
- **C-130 Jump Platform**



C-130 E/H/AMP Modifications

Challenges

- **Configuration Control Management**
- **Aging Fleet (Airframe Fatigue Issues)**
- **Ops Tempo (A/C Availability for Mods)**
- **Tech Order Process (Lengthy time to Field)**
- **Diminishing Manufacturing Sources**

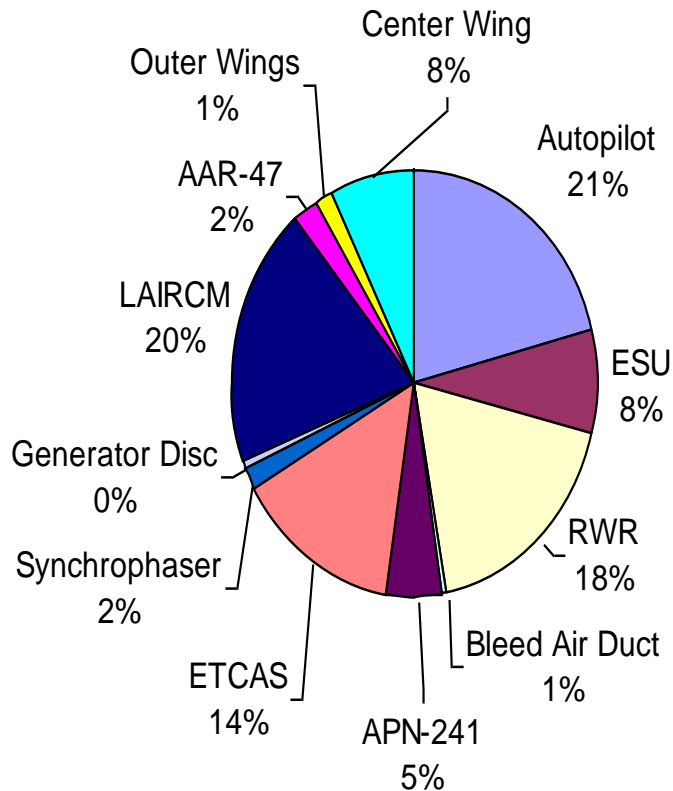


C-130 E/H/AMP Modifications

3010 Funded

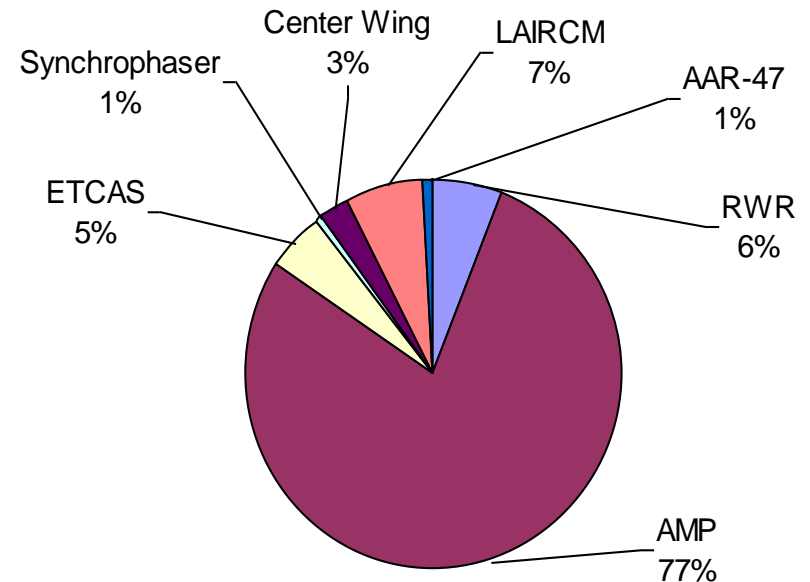
FY05 Modification Programs

\$1,222M Total



FY06 Modification Programs

\$3,599M Total





C-130E/H/AMP Requirements Matrix

Number	Description (Previous Rank)	OPR	FUNDING
1	Center-Wing Box Replacement (MAF and AFSOC)(0)	AMC/A44	Partial
2	C-130 LAIRCM Integration (1)	AMC/A58S	Partial
3	AAR-47 MWS Sensors Inadequate Coverage (2)	AMC/A58S	Partial
4	SAFIRE Look-Out Capability (6)	AMC/A39T	Unfunded
5	C-130 Loadmaster Crash-Worthy Seat	AMC/A39T	Unfunded
6	Electronic Flight Indicator (EFI) (0)	330 TASG	Unfunded
7	NVIS Compatible Lighting Modification (5)	AMC/A37T	Funded
8	Real Time Information in the Cockpit (RTIC) (9)	AMC/A58S	Unfunded
9	ETCAS/Mode S Elem for MAF, ACC and AFSOC (7)	AMC/AFSOC	Partial
10	C-130 ATS AMP Modification (10)	AMC/A37T	Unfunded
11	Aircrew Training & Rehearsal Support AMP Mod (0)	AFSOC/DOT	Unfunded



C-130 AMP Accomplishments & Milestones

Event	Date
<input checked="" type="checkbox"/> Contract Award	Jul 01
<input checked="" type="checkbox"/> System Requirements Review (SRR)	Dec 01
<input checked="" type="checkbox"/> Preliminary Design Review (PDR)	Nov 03
<input checked="" type="checkbox"/> Critical Design Review (CDR)	Jun 04
<input checked="" type="checkbox"/> C-130H2 input for Trial Install	Jan 05
<input checked="" type="checkbox"/> C-130H2.5 input for Trial Install	Apr 05
<input type="checkbox"/> Begin Ground Test	Oct 05
<input type="checkbox"/> First Flight C-130H2	Mar 06
<input type="checkbox"/> Production & Installation	FY06-FY16



C-130J

- Program Rqmts
- Challenges
- Long Term Sustainment



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C-130J

Program Requirements

- **USAF Aircraft Delivered To Date: 37**
 - **FY05 Projected Deliveries: 6**
- **Block Upgrade Program**
- **Operational Test & Evaluation**
- **AEF Rotation**
- **C-130J Long Term Support**



C-130J

Challenges

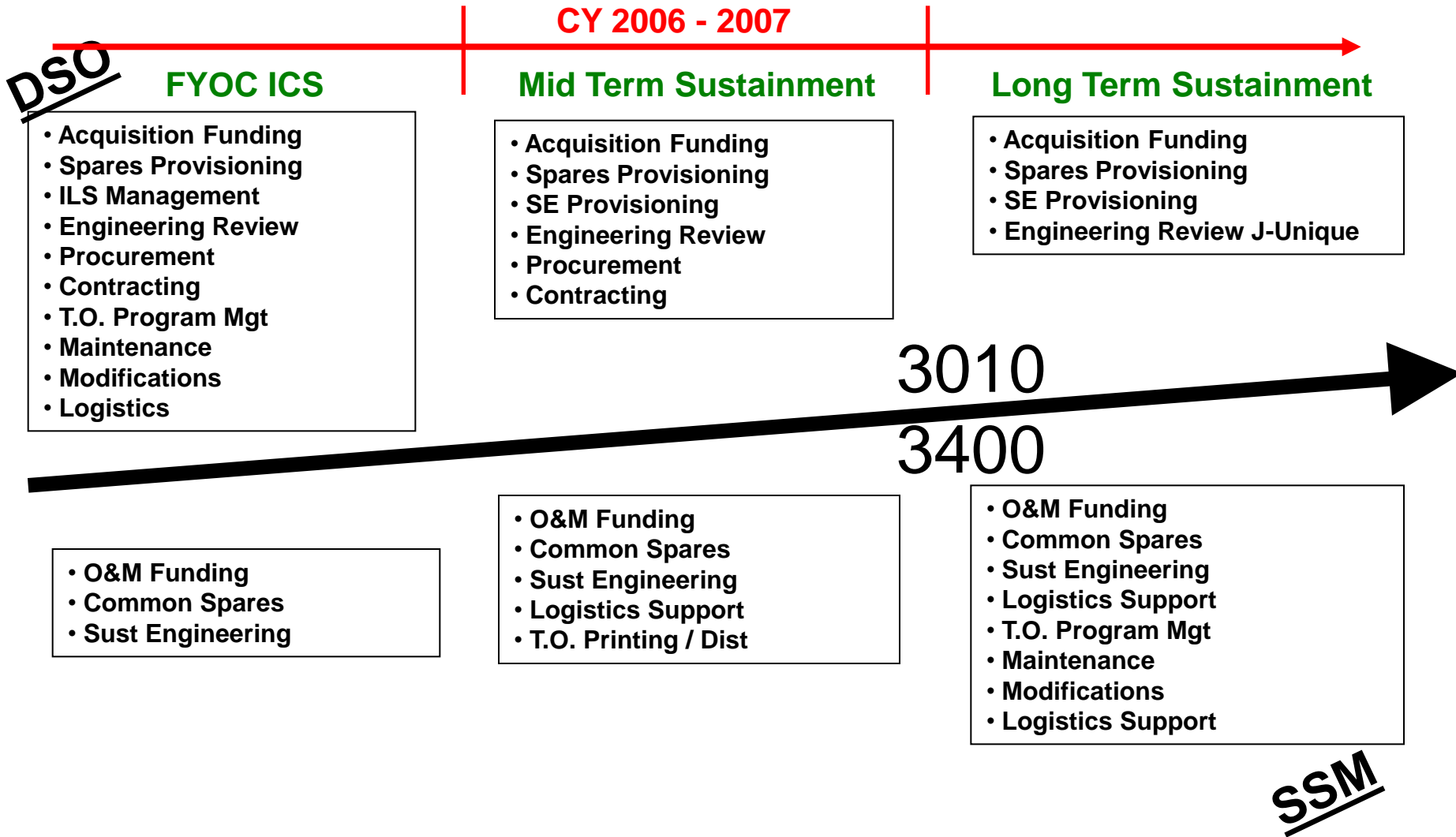
- **Contracting**
 - **Block Upgrades (ASC/C-130J Systems Group)**
 - **International Joint Users Group**
 - **Long Term Sustainment Contract**
 - **ICS Contract at ASC**
ends in FY06



'08 AMC Receives First C-130J at Pope AFB



C130J Long Term Sustainment





Accomplishments & Milestones

Event	Date
<input checked="" type="checkbox"/> Common Parts Data Base Created	June 05
<input checked="" type="checkbox"/> Draft Sustainment Transition Plan	June 05
<input checked="" type="checkbox"/> Initiate SORAP Process	24 June 05
<input checked="" type="checkbox"/> Rolls Royce Source of Supply Initiated	21 June 05
<input checked="" type="checkbox"/> Metrics Development and Negotiations (LM & RR)	July 05
<input checked="" type="checkbox"/> Draft RFP Release (RR)	22 July 05
<input checked="" type="checkbox"/> JUG Conference in San Diego	17-22 July 05
<input type="checkbox"/> Awaiting SAF/OS Approval	9 Sep 05
<input type="checkbox"/> Expectations Mgt Agreement (EMA) w/AMC	TBD



International Squadron

Debbie Jackson

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Who We Support

- Foreign Military Sales
 - 641 aircraft
 - 8 MDS
 - 41 countries
- Technical Coordination Group
 - 270 aircraft
 - 5 MDS
 - 24 countries
- What We Do
 - Acquisition
 - Sustainment
 - Modernization





International

FMS Program Rqmts

- **System Sales Cases – Aircraft Purchases**
- **AAR-47 MWS Sensors**
- **Program Depot Maintenance**
- **Avionics Upgrades**
- **Engine Upgrades**
- **Wing Replacement Program**
- **Spares and Repairs**
- **Technical Manuals**
- **Site Surveys**



International

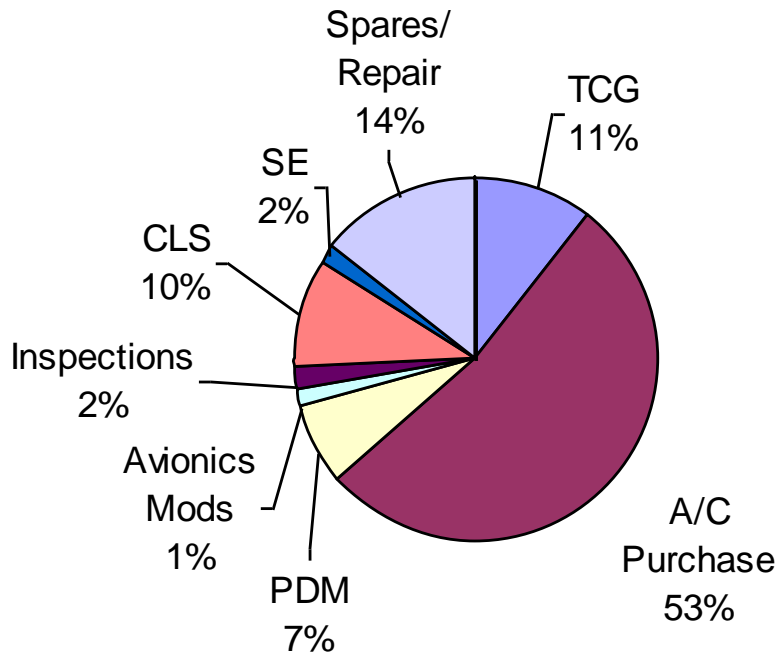
FMS Challenges

- **C-130E Retirements**
- **C-130J**
 - **FMS Customers purchasing J models**
“retire” their old fleet (transfers)
- **Aging fleet**
 - **Structural mods (Outer and center wings)**
 - **Avionics upgrades**
- **FMS involvement in Global War on Terror**
- **FMS countries now seeking following protection systems**
 - **Air Defensive Systems**
 - **Aircraft Armor**
 - **Fuel Foam**

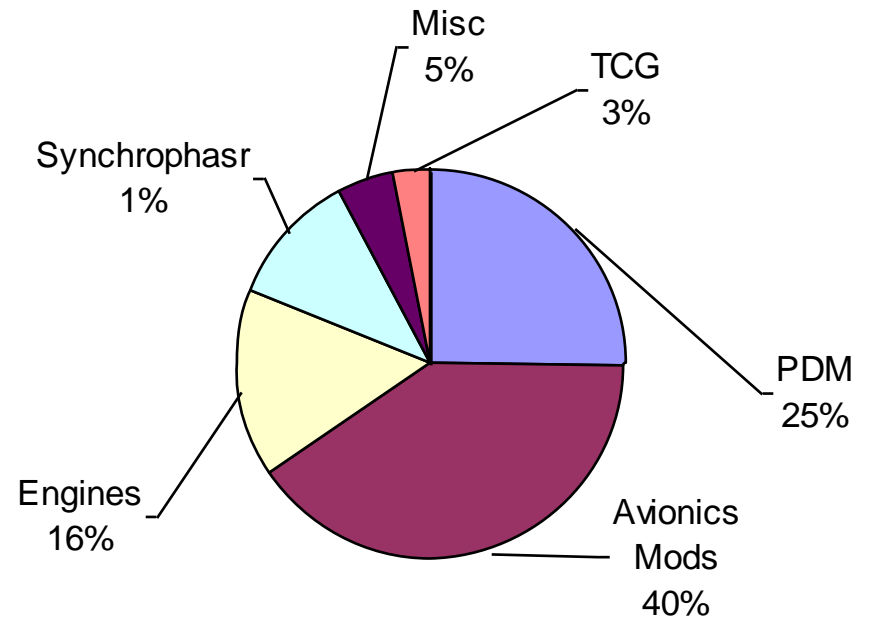


International FMS Funded Programs

FY04 Programs \$44.9M Total



FY05 Programs \$224.9M





Poland Update

- Program scope consist of 5 C-130E aircraft, spare engines, avionics upgrade, center wing replacement, ground handling equipment and PDM
- Congressional notification in process
 - LOA is currently at DSCA
 - LOA will be out to country by COB 10 November 2005
- Industry Days scheduled for:
 - November 29, 2005 at Warner Robins AFB
 - December 1-2 2005 at AMARC (Industry Aircraft Survey)
- Competed through FAST Contract
- Many challenges still ahead of us



Saudi Arabia Roadmap

- Roadmap for Avionics upgrade, spares, center wing inspection, repair, & replacement
- AMP
 - USG provided estimate for AMP but LOR at reduced amount
 - ASC/MSW-130SG and AFSAC/GBC preparing LOA
- AFSAC/CC Ltr recommended
 - Support F100-229 engines (F-15) & AMP; Awaiting direction from RSAF
- Spares – ongoing
- Center Wing – TBD; based on aircraft survey



Summary

- Challenging responsibilities
- Varied customers / aircraft
- Extraordinary Herc Team!

People First
Mission Always!





Questions?



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Sustainment

FY05 MSD Dollars

