

29 JAN 2026

Society of
SAME
American Military Engineers
Phoenix Post



LUKE HORIZONS

<https://www.same.org/phoenix>



I pledge allegiance to the Flag of the United States of America, and to the Republic for which it stands, one Nation under God, indivisible, with liberty and justice for all.

Upcoming Events

- Feb - 2/22 (Saturday) Math Counts STEM Event
- 2/26 Air National Guard - PHX Sky Harbor – Limited Spaces Available
- March – 3/17 SAME PHX IGE (Industry Government Outreach)
- 3/18 USACE LA District BOOH (Business Opportunities Open House)
- 3/21-3/22 Luke Days
- 3/24-3/26 SAME Capital Week - Washington, DC
- April - 4/17 SAME PHX Golf Tournament (Falcon Dunes Golf Course)
- May - 5/19-5/21 JETC (Joint Engineer Training Conference) Portland, OR
- 5/21 Lunch Speaker
- June - 6/5 i-Fly STEM event (Scottsdale Pavilions)
- 6/25 Lunch Guest Speaker
- STEM / Engineering & Construction Camps (Applications due in MARCH)
- 6/23 Lunch Guest Speaker
- July - Summer Break
- August - 9/24 Lunch Guest Speaker
- Sept - 10/29 Lunch Guest Speaker
- Oct - 11/4 – 11/6 SAME SBC (Small Business Conference) Charlotte, NC
- Nov - TBD - Holiday Happy Hour Celebration
- Dec -

DID YOU KNOW?

SAME STEM Camps are hosted at the following locations:

U.S. Army STEM Engineering & Construction Camp

7-13 June - Vicksburg, Miss

U.S. Marine Corps STEM Engineering & Construction Camp

21-27 June - Camp Lejeune, N.C.,

U.S. Air Force Academy STEM Engineering & Construction Camp

22-27 June - Colorado Springs, Colo.

U.S. Navy STEM Engineering & Construction Camp – Jacksonville

21-27 June - Jacksonville, Fla.

U.S. Navy STEM Engineering & Construction Camp – Port Hueneme

19-25 July - Port Hueneme, Calif.

NEW! Camp Paumalu, STEM Engineering & Construction Camp

7-13 June - Oahu, Hawaii.



SAME Membership

Individual / Business / Government / Student Memberships
Nominations for Board Positions
Sponsorship Opportunities
C3s SAME Councils, Committees, and Communities of Interest
Volunteer Opportunities
Scholarships



DID YOU KNOW?

SAME National C3s offers the following:

Membership Groups

Membership Committee, Small Bus Council, Young Professionals, Uniformed

Project Lifecycle Groups

Architectural Practice, Construction, Energy Security, Environmental, Facility
Asset Management, Resilience, Warfighter Engineering and Geospatial
Working Communities

Workforce Development Groups

Camps, College Outreach, STEM Outreach, Leader Development Communities

Thank You to this year's event Sponsors



Sponsor Spotlight

Noresco

Dan Myers, PE

Senior Federal Account Executive



Delivering Energy, Mission, and Infrastructure Resilience

Performance Contracting - Private and Federal Partnerships

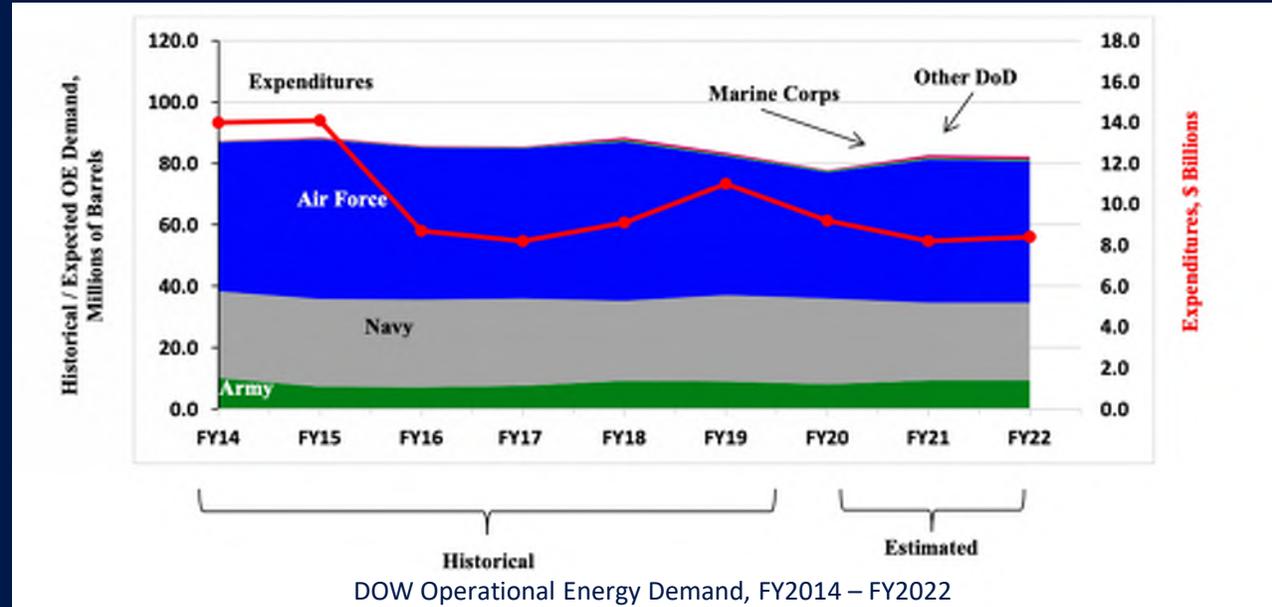
January 29, 2026



Who is the Largest Single Consumer of Energy in the US*?

The U.S. Department of War

Who is Best: Air Force vs. Army vs. Navy vs. Marine Corps?



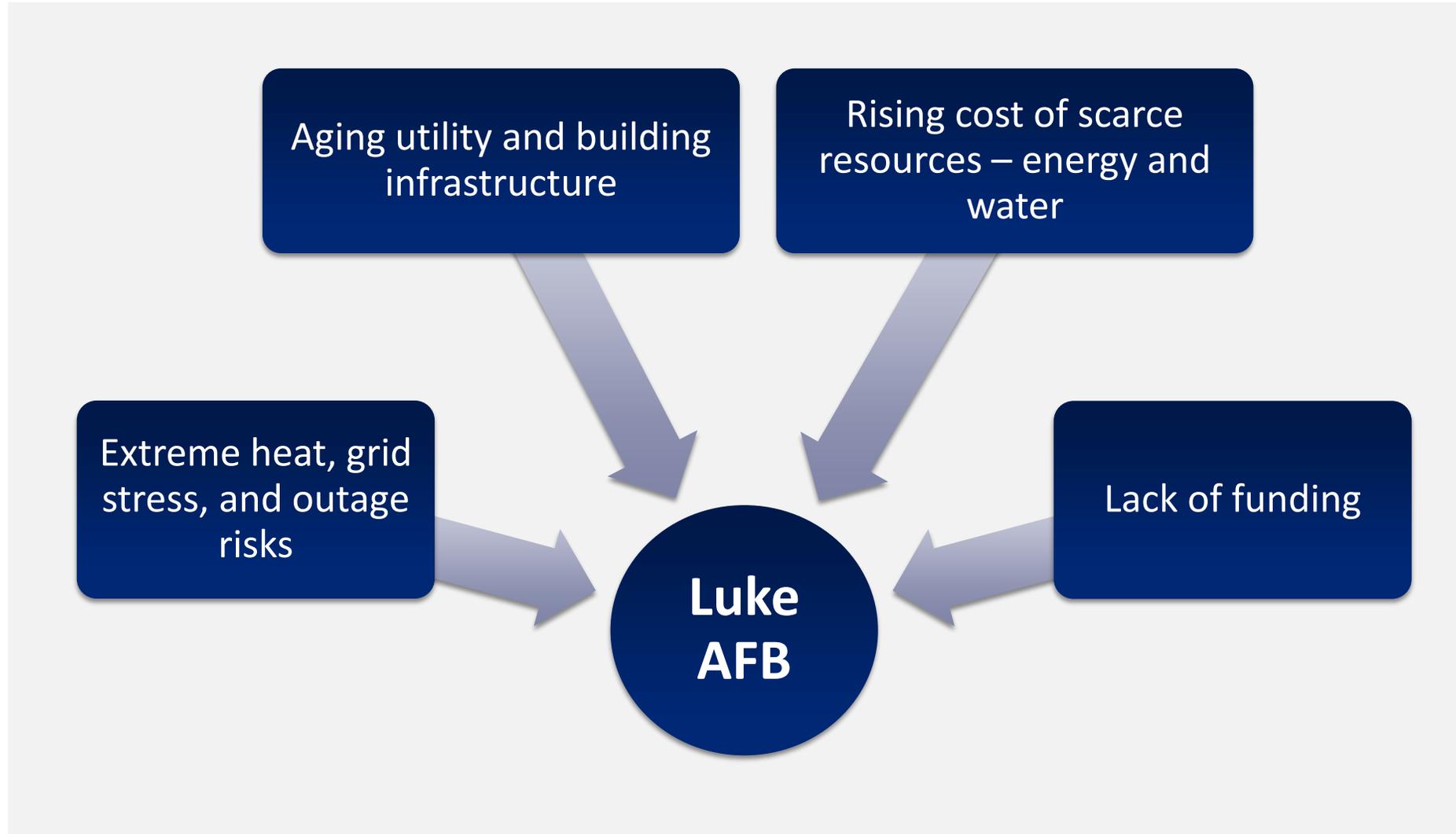
Source: <http://large.stanford.edu/courses/2023/ph240/alammarah1/docs/dod-may21.pdf>

Winner!



U.S. AIR FORCE

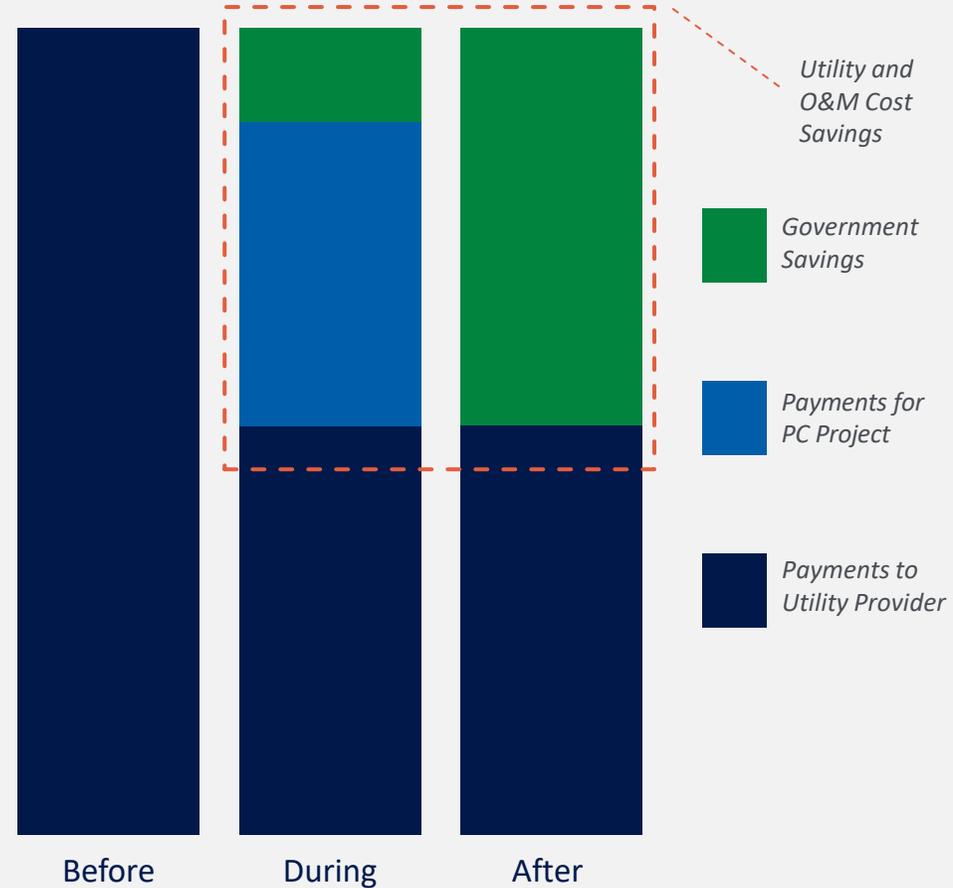
Multiple Threats – Mission Resilience at Risk



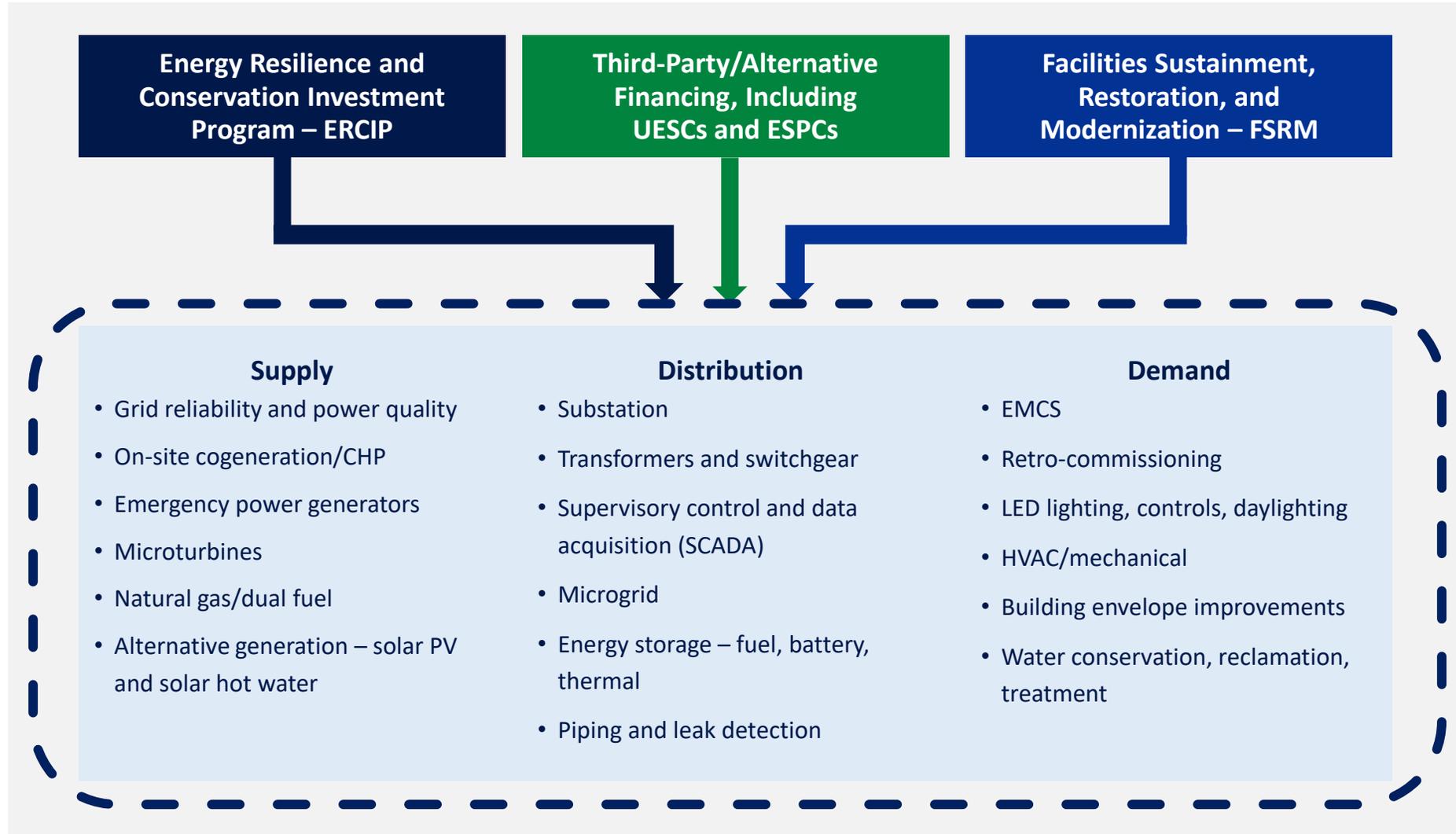
Collaboration! You Don't Have to Do it Alone

Federal Performance Contracting – UESC/ESPC

- Reduce waste, invest more on resilience
- Industry expert partners – local utilities and ESCOs
- Agency support - AFCEC, DOE, DLA Energy
- Leverage third-party financing
- O&M support



Potential Solutions and Acquisition Strategies



Supporting Air Force Resiliency

28 Projects Completed at Over 20 Air Force Bases



Hanscom AFB

- › Project Cost: \$45.4 million
- › 4.6-MW cogeneration plant operating on a microgrid to provide emergency power to critical locations during utility outages, extensions of natural gas service. Other improvements included extensions of natural gas service, and replacement of oil-fired boilers and burners with gas-fired equipment.
- › Implemented with no OSHA violations or fines.
- › This ESPC project has exceeded annual savings guarantees in every year of performance.
- › Total job creation of approximately 431 jobs (*Direct Job Impact for ESPC Projects – Federal Performance Contracting Coalition*).
- › DOE 2022 Federal Energy Management Program Award.



Keesler AFB

- › Project Cost: \$32.7 million
- › 1.5-MW solar PV carport array that generates over 2 million kWh annually, enhances resilience and improves mission assurance. Other improvements included chiller optimization controls, building controls, DDC and LED lighting improvements.
- › Implemented with no OSHA violations or fines.
- › This ESPC project has exceeded annual savings guarantees in every year of performance.
- › Total job creation of approximately 310 jobs (*Direct Job Impact for ESPC Projects – Federal Performance Contracting Coalition*).
- › DOE 2022 Federal Energy Management Program Award.



Kadena AB

- › Project Cost: \$85.7 million
- › 10-MW of on-site power generation with the first ESPC example of a standby microgrid. The new microgrid enables Kadena AB to more effectively sustain operations and meet critical mission requirements during utility outages. Other improvements included domestic water conservation measures, solar thermal-assisted air conditioning, and upgrades to nearly 200,000 light fixtures.
- › One of the Air Force's largest water conservation initiatives, reducing consumption by almost 60 million gallons of water.
- › Implemented with no OSHA violations or fines.
- › This ESPC project has exceeded annual savings guarantees in every year of performance.
- › DOE 2023 Federal Energy Management Program Award.

Supporting Department of War Resiliency

Experience in Over 100 Projects, Worth Over \$1.25 Billion



Naval Submarine Base New London

- ▶ Project Cost: \$90.1 million
- ▶ The cornerstone of this ESPC was a 10.75-MW combined heat and power plant providing electrical power generation and steam heat for mission-critical waterfront operations and training buildings. To enhance the resiliency of this service, a new cybersecure microgrid system was installed, enabling NSB New London to island their installation in case of a utility grid outage.
- ▶ Other improvements included electrical infrastructure upgrades, steam distribution system improvements, new LED lighting, and a new base-wide cybersecure energy management controls system.
- ▶ Implemented with no OSHA violations or fines.
- ▶ This ESPC project has exceeded annual savings guarantees in every year of performance.
- ▶ Total job creation of approximately 865 jobs (*Direct Job Impact for ESPC Projects – Federal Performance Contracting Coalition*).
- ▶ This ESPC project was profiled in “The Military Engineer”, Volume 732, celebrating its innovative approach and alignment with the Navy’s resilience goals.



Commander Fleet Activities Yokosuka

- ▶ Project Cost: \$166.9 million
- ▶ In 2008, NORESCO completed the installation of a 39-MW cogeneration plant at CFAY under an ESPC. The cogeneration plant was designed to deliver clean, efficient, and reliable electric power to meet all capacity needs, and to provide additional 60-Hz power generation capacity to meet increasing mission requirements. In 2023, after 15 years of successful performance, the ESPC was modified to include the CFAY Power Resiliency Island Mode Enhancements (CFAY-PRIME) project to bolster energy resiliency for mission-critical systems.
- ▶ The CFAY-PRIME project ensures the continuity of operations in the event of grid power interruptions by enabling CFAY to quickly island its power systems to serve mission-critical energy needs. CFAY-PRIME also includes implementation of cybersecurity upgrades in accordance with the U.S. Department of Defense Risk Management Framework.
- ▶ Implemented with no OSHA violations or fines.
- ▶ This ESPC project has exceeded annual savings guarantees in every year of performance.
- ▶ This ESPC includes 21 years of ongoing operational support and maintenance and repair to ensure the plant is functioning at optimal efficiency and capacity and maximum availability.

Who We Are

NORESCO by the Numbers

 **\$5+ billion**
GUARANTEED SAVINGS

 **10,000+**
FACILITIES IN THE U.S.
AND WORLDWIDE

 **20 billion kWh**
ELECTRICITY SAVED

 **120 trillion Btu**
ON-SITE FUEL ENERGY SAVED

 **50 billion gal**
WATER SAVED

 **25 million MT**
CARBON DIOXIDE REDUCED



Over 40 years of experience

Multi-disciplinary in-house team provides engineering, procurement, and construction and equipment lifecycle services

Innovative and customized energy solutions

Flexible and robust security package



Founded in 1915
(NYSE: CARR)

\$22.5 billion in net sales – 2024

Global leader in intelligent climate and energy solutions, focused on providing differentiated, digitally enabled lifecycle solutions

NORESCO is a Carrier company

How well are you prepared for threats?



Dan Myers, PE

Senior Federal Account Executive

Cell 541.213.9672

dan.myers@noresko.com

www.noresko.com

SAME Phoenix Post – 2026 Board Members

Officers:

President-
Ryan Gibson, Spur Design

Past President-
Julie Hamilton, Nicklaus Engineering

Programs-
Neil Wentz, USAF
Chad Brossman, RSP Architects

Treasurer-
Iain Olness, SCS Engineering

Asst. Treasurer-
Ed Mears, HDR

Secretary-
Allison Gibson, H2B Engineering | Design

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Zach Radel, Cooper Aerial

Directors:

Communications-
Teresa Howell, Tribal One

Small Business Liaison-
Vickie Maranville, Banda Group

Public Agency Rep.-
Venessa Gleich, American Indian
Chamber Education Fund

Enlisted Service Member Liaison-
Dan Alverado, USAF

STEM Committee-
Jason Fowers, EMC2



SAME Phoenix Post 2025 Treasurer's Report

Ed Mears, Asst. Treasurer

Operations Account (Checking)

Start of 2025:	\$32,580.76
End of 2025:	<u>\$65,821.40</u>
Change:	<u>+\$33,240.64</u>

Education and Mentoring Fund (Savings)

Start of 2025:	\$27,295.75
End of 2025:	<u>\$27,298.48</u>
Change:	<u>+\$2.73</u>

Total of Accounts:	\$93,119.88
Net Increase	\$33,243.37

Income and Expenses:

Operations:

\$9,886.41

Fundraising:

\$41,072.93

E&M Fund Expenses:

- \$17,718.70

Net increase of E&M Fund:

\$23,354.23



Lt Col Branden D. DeLong

Commander 56th Civil Engineer Squadron



UNITED STATES AIR FORCE

Lt Col Branden DeLong is the Commander, 312th Training Squadron at Goodfellow AFB, Texas. The 312 TRS is responsible for training, developing, and inspiring warriors to deliver fire and emergency services and nuclear treaty monitoring for the Department of Defense and our international partners. The squadron is home to the Louis F. Garland Department of Defense Fire Academy, the only consolidated fire school in the DoD.

Lt Col DeLong grew up in Grand Island, New York. He was commissioned in 2008 after graduating from the Virginia Military Institute where he earned a Bachelor of Science degree in Civil and Environmental Engineering. He completed engineering technical training in November 2008 and since then has held a variety of assignments. Lt Col DeLong has deployed three times in support of Operation Enduring Freedom and has served in assignments around the globe attached to Pacific Air Forces and U.S. Air Forces in Europe. Lt Col DeLong is also a graduate from the Air Force Institute of Technology where he published a thesis on *Quantifying Resiliency Risk Metrics through Facility Dispersion*. Prior to his current position, the Lt Col was the Chief, Air Force Installation and Mission Support Center Detachment 2, Operating Location Alpha. In this capacity, he led design and construction projects valued at \$1.8B, to surge the capability of Indo-Pacific Command's Pacific Deterrence Initiative.

EDUCATION

2008 Bachelor of Science in Civil and Environmental Engineering, Virginia Military Institute, Lexington, Virginia

2008 Air and Space Basic Course, Maxwell Air Force Base, Ala.

2015 Squadron Officer School, Maxwell AFB, Ala.

2019 Master of Science in Engineering Management, Air Force Institute of Technology, Wright-Patterson AFB, Ohio

2021 Air Command and Staff College, Maxwell Air Force Base, Ala.



Lt Col Branden D. DeLong

Commander 56th Civil Engineer Squadron

ASSIGNMENTS

1. June 2008 – September 2010, Civil Engineer, Tyndall Air Force Base, Florida (January 2010 – September 2010, Project Engineer/Master Planner, 877th Expeditionary Prime BEEF Squadron, Camp Marmal, Afghanistan)
2. September 2010 – August 2011, Deputy Operations Flight Commander, Tyndall Air Force Base, Florida
3. August 2011 – August 2012, Programs Flight Officer in Charge, Aviano Air Base, Italy (January 2012 – August 2012, Base Development Officer, NATO Training Mission-Afghanistan and Combined Security Transition Command-Afghanistan, Kabul, Afghanistan)
4. August 2012 – September 2013, Installation Management Flight Commander, Aviano Air Base, Italy
5. September 2013 – September 2014, Readiness and Emergency Management Flight Commander, Aviano Air Base, Italy (January 2014 – July 2014, Support Flight Commander and Base Civil Engineer, 879th Security Forces Squadron, Eskan Village, Kingdom of Saudi Arabia)
6. September 2014 – June 2015, Command Programmer, Headquarters United States Air Forces in Europe – Air Forces Africa, Ramstein Air Base, Germany
7. June 2015 – August 2017, Officer in Charge of European Operations, Headquarters United States Air Forces in Europe – Air Forces Africa, Ramstein Air Base, Germany
8. August 2017 – May 2019, Student, Air Force Institute of Technology, Wright-Patterson Air Force Base, Ohio
9. May 2019 – May 2021, Commander, Operations Flight, Osan Air Base, Republic of Korea
10. May 2021- June 2023, Chief, Air Force Installation and Mission Support Center Detachment 2, Operating Location Alpha, Andersen Air Force Base, Guam
11. June 2023 – Commander, 312 TRS, Goodfellow Air Force Base, Texas
12. July 2025 - Present, Commander, 56th Civil Engineer Squadron, Luke Air Force Base, Arizona

MAJOR AWARDS AND DECORATIONS

Meritorious Service Medal with two oak leaf cluster
Air Force Commendation Medal with one oak leaf cluster
Army Commendation Medal
Air Force Achievement Medal with two oak leaf clusters
Air Force Outstanding Unit Award with one oak leaf cluster

OTHER ACHIEVEMENTS

2011 Society of American Military Engineer Young Member Award f/Outstanding Leadership
2012 AETC IG coined as "Wing Top Performer" in ORI
2016 USAFE-AFAFRICA Maj Gen Gilbert Award for Civil Engineer HQ Staff Officer OTY
2017 USAFE-AFAFRICA A4 Sijan Nominee
2017 Coined by the Secretary of the Air Force
2020 Civil Engineer Operations Flight of the Year, PACAF
2020 AF-Runner Up Resource Excellence Award
2020 Flight Commander of the Year, 51 Mission Support Group
2021 Field Grade Officer of the Year, AFIMSC Det 2
2021 Field Grade Officer of the Year, AFIMSC
2022 AFIMSC Det 2 Sijan Nominee
2022 Field Grade Officer of the Year, AFIMSC Det 2

OCCUPATIONAL BADGES

Master Civil Engineer

PUBLICATIONS

"Quantifying Resiliency Risk Metrics through Facility Dispersion," Air Force Institute of Technology, Wright-Patterson AFB, Ohio, 2019

EFFECTIVE DATES OF PROMOTION

Second Lieutenant May 15, 2008
First Lieutenant June 1, 2010
Captain June 1, 2012
Major March 1, 2018
Lieutenant Colonel March 1, 2023

Intelligence Report

Lt Col Branden D. DeLong



Current Intel Brief



ENABLING ELITE FIGHTER OPERATIONS



This briefing is classified: **UNCLASSIFIED**

Current as of: 13 Jan 2025

Maj Christopher "Bullseye" Castaneda

Derived from: Multiple Sources





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(U) Overview



ENABLING ELITE FIGHTER OPERATIONS

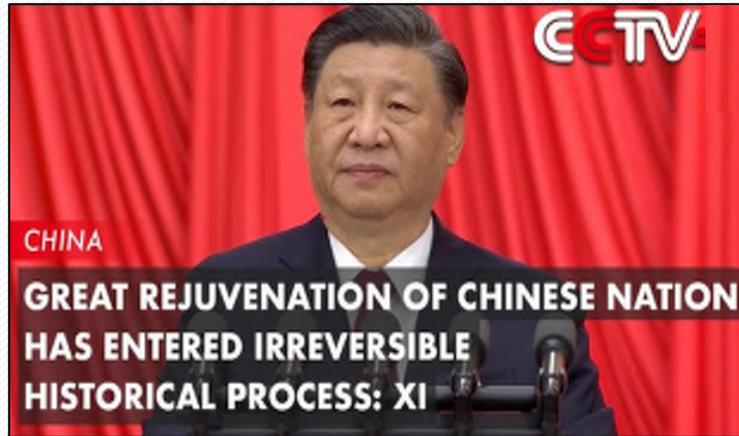
- PRC Update – PLA “Justice Mission 2025” Around Taiwan
- PRC Big Picture
- Venezuela Update – Operation ABSOLUTE RESOLVE
- Luke’s Impact



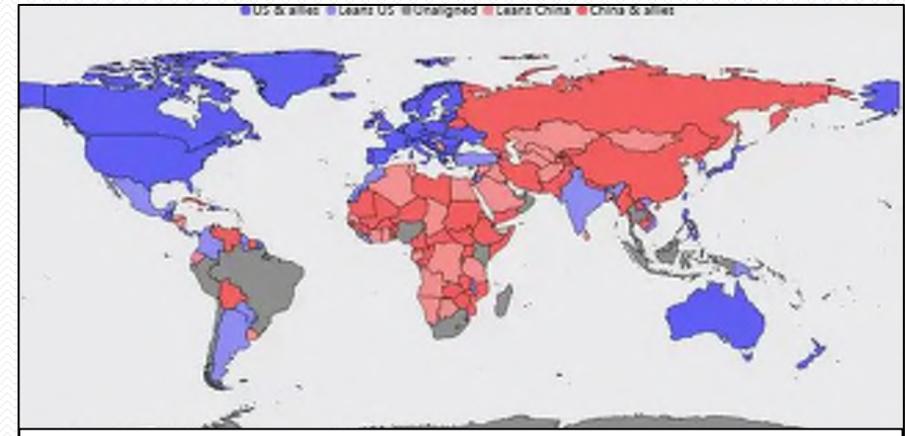
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(U) PRC Big Picture

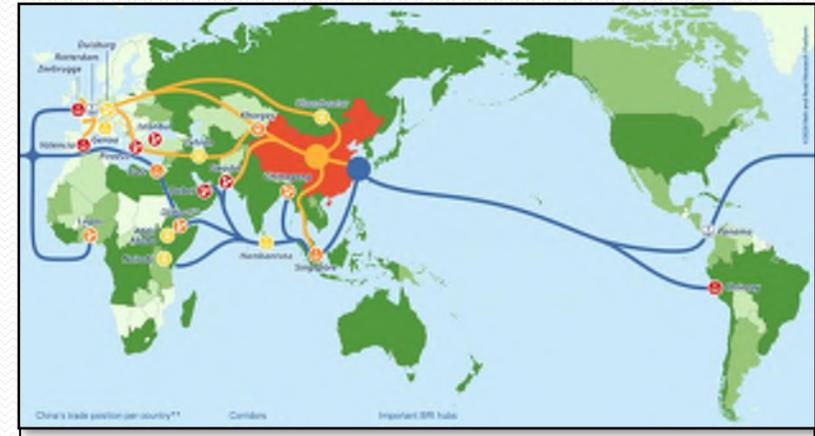
ENABLING ELITE FIGHTER OPERATIONS



"The Great Rejuvenation of the Chinese Nation"



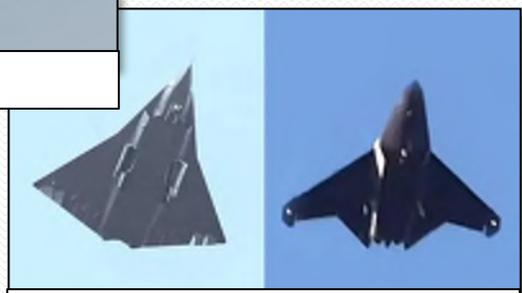
Realign Global Politics



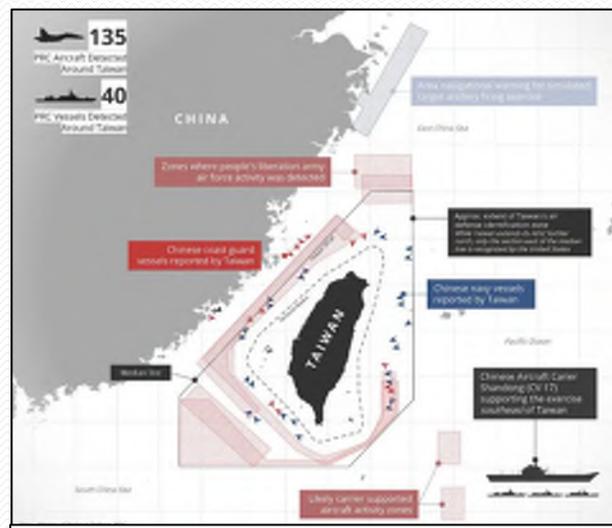
"Total War" To Counter U.S. Dominance



J-35 "Gyrfalcon"



6th-Gen Prototypes



Pressure Operations, Large Scale Military Exercises



Challenging a Free and Open Indo-Pacific

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(U) MILITARY EXPANSION: 1999

SPACE



AIR



MARITIME



MISSILES



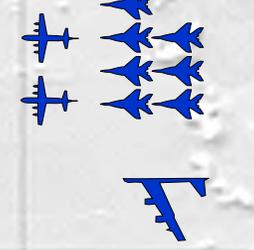
SPACE



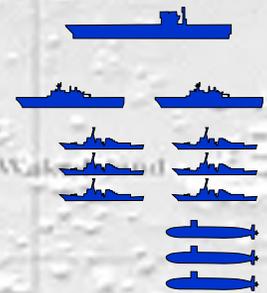
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AIR



MARITIME



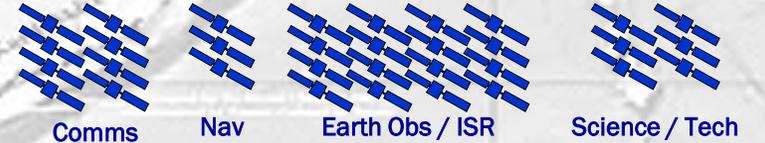
- = 10 Satellites
- = 25 Modern Fighters
- = 25 Manned Bombers
- = 5 Maritime Patrol Aircraft
- = 2 Modern Submarines
- = 1 Aircraft Carrier
- = 2 Amphibious Assault Ships
- = 2 Modern Multi-Warfare Combatants
- = 25 Ballistic Missiles
- = 1 THAAD Battery

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(U) 2021

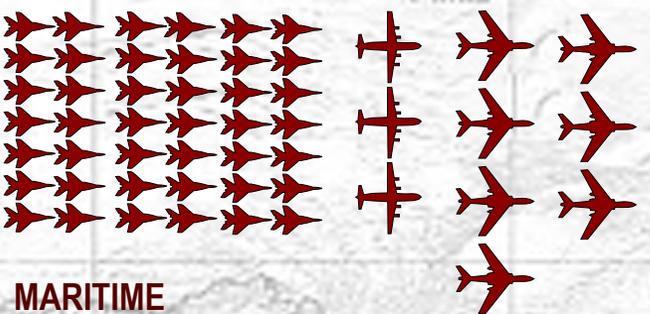
SPACE



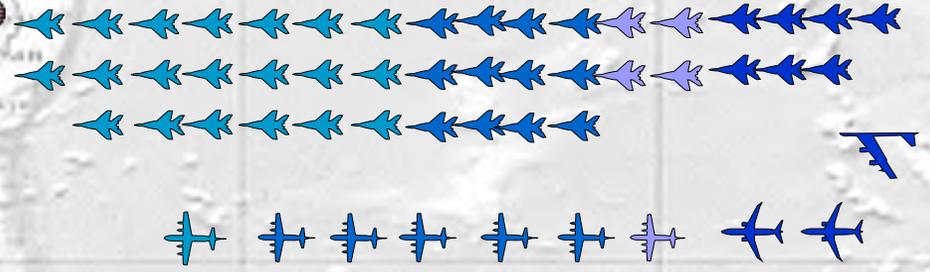
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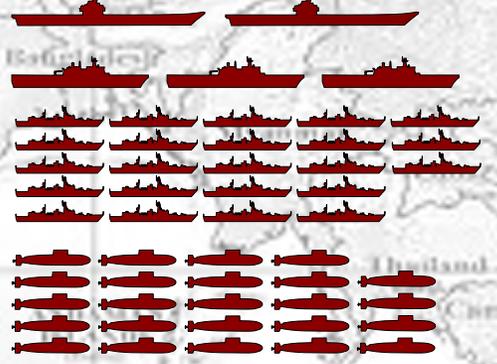
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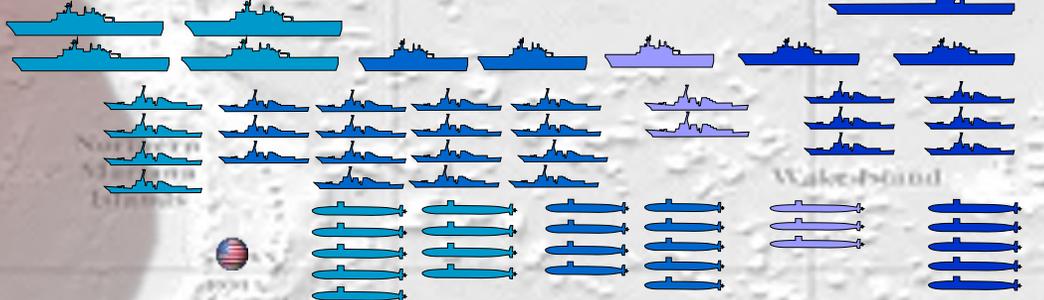
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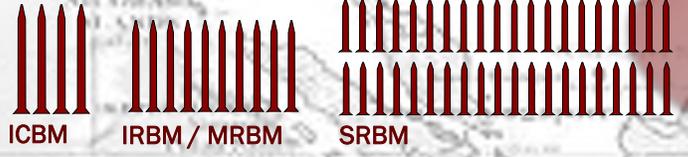
MARITIME



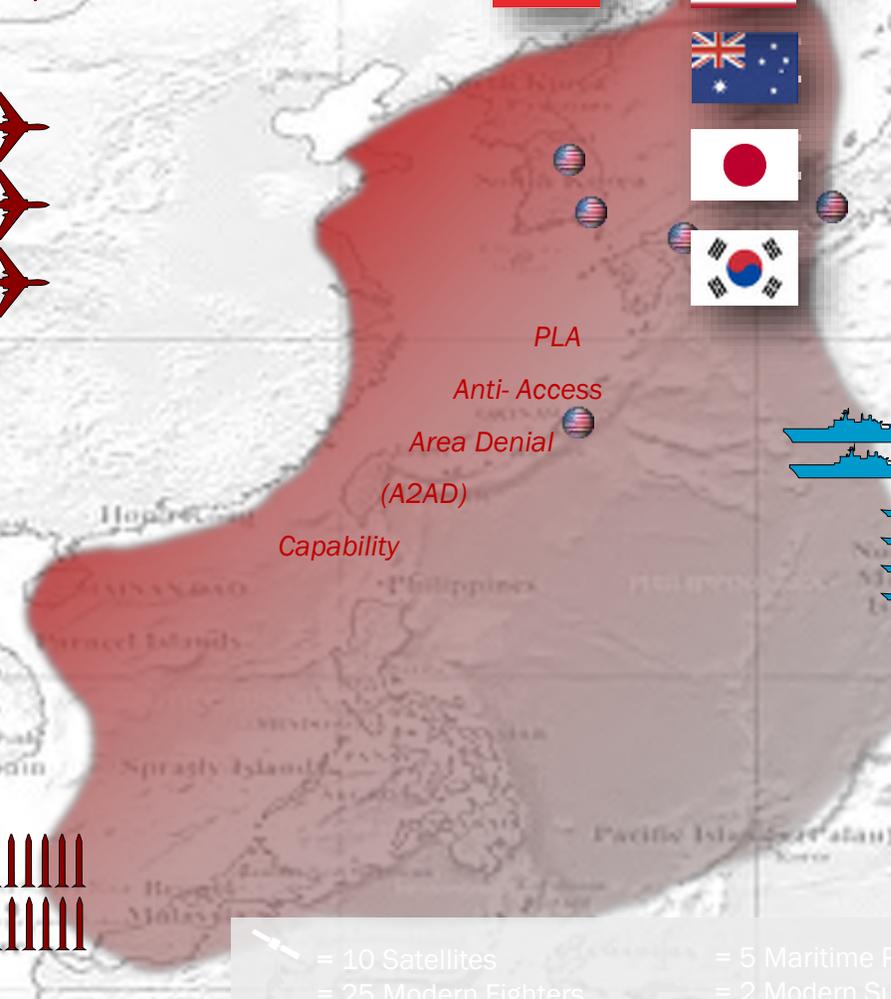
MARITIME



MISSILES



MISSILE DEFENSE



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2025 (Projected)

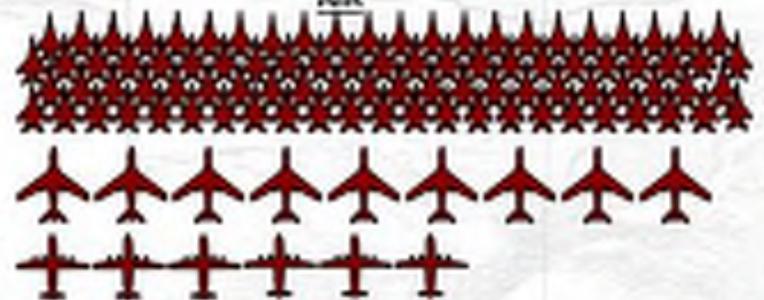
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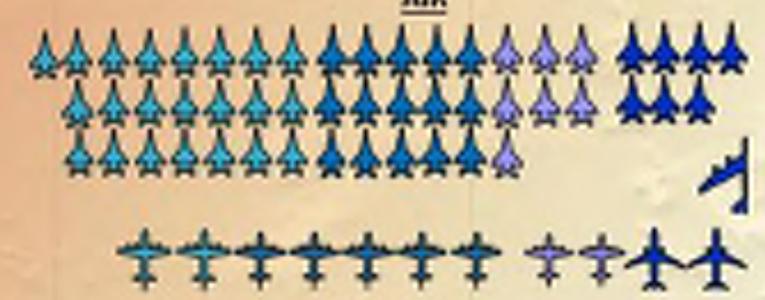
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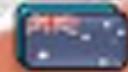
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MISSILES



MISSILES



1st Island Chain

2nd Island Chain

PLA
Anti-Access
Area Denial
(A2AD)
Capability

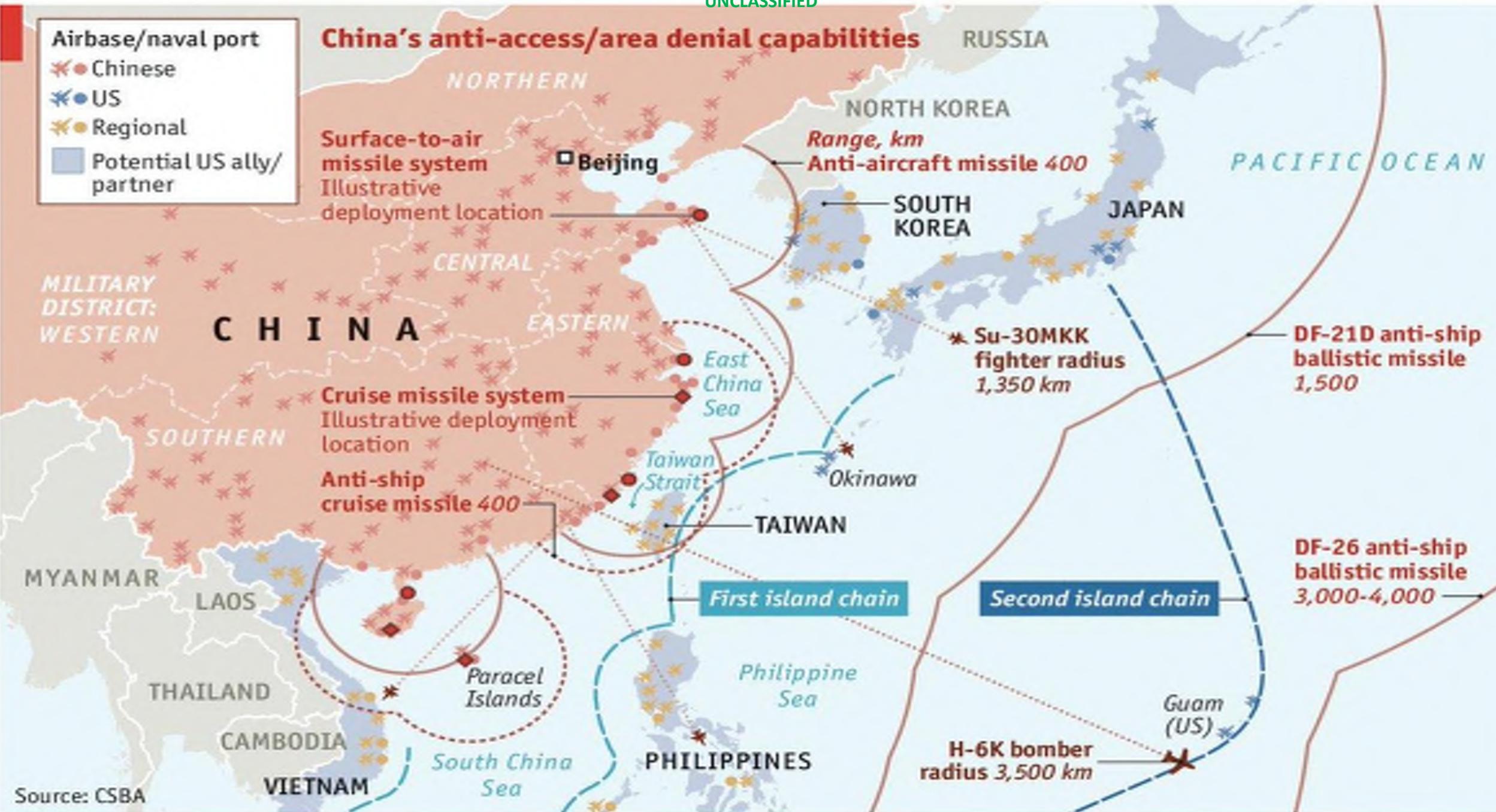
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China's anti-access/area denial capabilities

Airbase/naval port

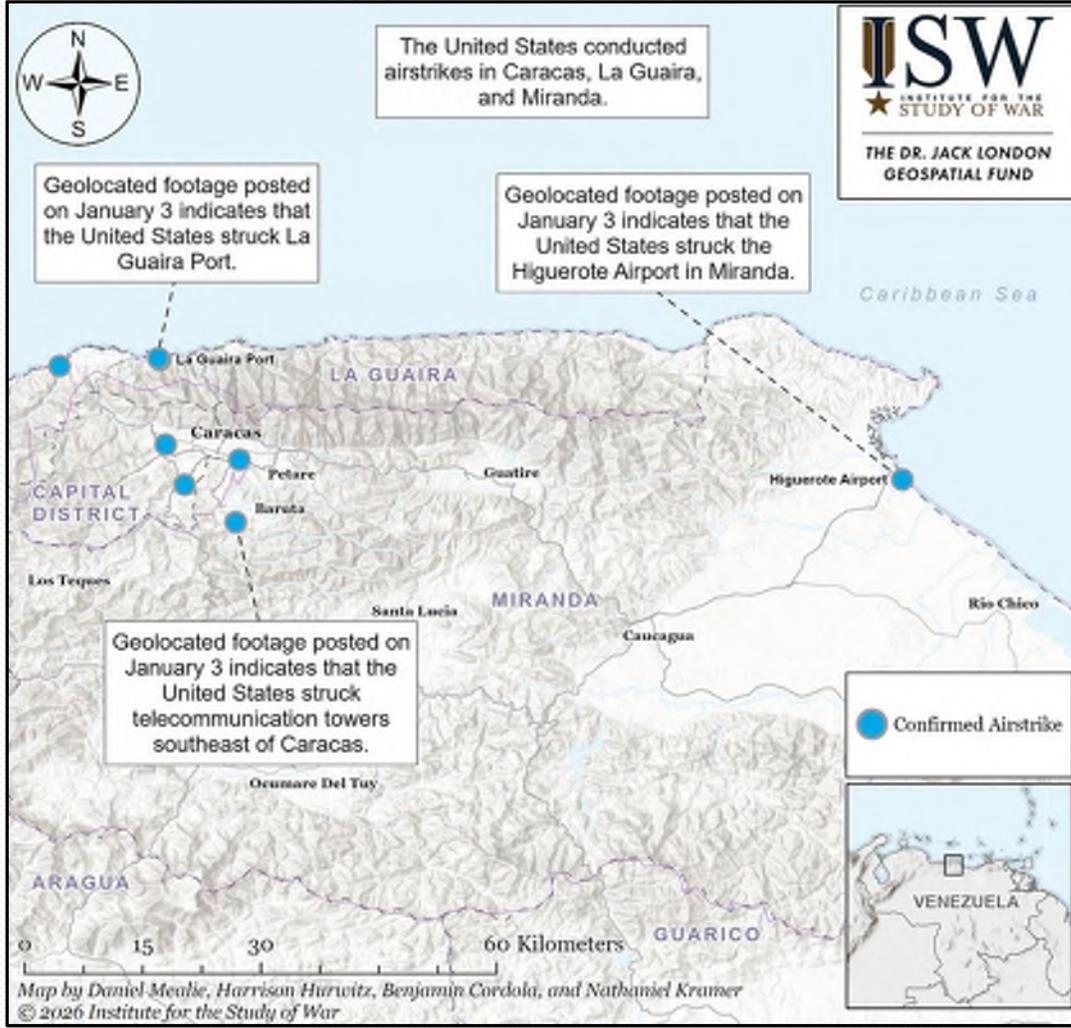
- Chinese (Red star icon)
- US (Blue star icon)
- Regional (Yellow star icon)
- Potential US ally/partner (Blue shaded area)





(U) Venezuela – Operation ABSOLUTE RESOLVE

ENABLING ELITE FIGHTER OPERATIONS



(U) Operation Overview

- On 3 Jan, the U.S. conducted an apprehension mission of VEN President Maduro
- 150+ aircraft, including F-35A/Bs, F-22s, F/A-18E/Fs, EA-18Gs, E-2D, and B-1Bs
- Precision strikes destroyed VEN air defense systems, airfields, and military command sites
- No U.S. forces or A/C lost

(U) Capped Broader Pressure Campaign

- Sanctions on Iranian and Venezuelan entities involved in weapons proliferation
- Maritime interdiction against narco-terrorists
- Naval blockade (2x tankers seized)

(U) New VEN Leadership

- VP Delcy Rodriguez sworn in as President
- Release of political prisoners

PARTICIPATING U.S. FORCES				
EXTRACTION FORCE				
				<ul style="list-style-type: none"> • Unknown number of MH-47G Chinooks with U.S. Army 156th Special Operations Aviation Regiment (Airborne) (SOAR) • Led by 3rd Special Forces Operational Detachment-Delta • Department of Justice law enforcement officers embarked
SUPPORT PACKAGE				
USAF F-35A Lightning II's	USMC F-35B Lightning II's	USAF F-22 Raptors	USN F/A-18E/F Super Hornets	USN EA-18G Growlers
USAF B-1B Lancer bombers	USAF RC-135V/W Rivet Joint	USN E-2D Hawkeye (AEW&C)	USAF EC-130H Compass Call	USAF RQ-170 Drone
USN P-8A Poseidon (VPU 2)	USAF E-3G Sentry (AWACS)	USAF E-11A BACN	USAFS-3B Viking	USN MH-60M Black Hawk (DAP)

(U) Luke's Mission and Global Impact



ENABLING ELITE FIGHTER OPERATIONS

- We train the World's Greatest Fighter Pilots and Combat-Ready Airmen.
- Largest fighter wing in the world.
 - 6x F-35 Squadrons: Netherlands, Denmark, Norway, Italy, Belgium
 - Joint U.S. Singapore F-16 Squadron
- Strengthen Strategic Partnerships, Build Interoperability, Share Tactics & Techniques
- Promote Peace & Stability
- Deter Aggression



Italian, Norwegian, and U.S. personnel participate in Red Flag (2019).



U.S. Air Force, Royal Danish Air Force, and Royal Netherlands Air Force F-35A (2021).



Republic of Singapore Air Force participates in Green Flag (2024).



First Belgian F-35A arrives at Luke AFB (2024).



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(U) Summary



ENABLING ELITE FIGHTER OPERATIONS

- PRC Update – PLA “Justice Mission 2025” Around Taiwan
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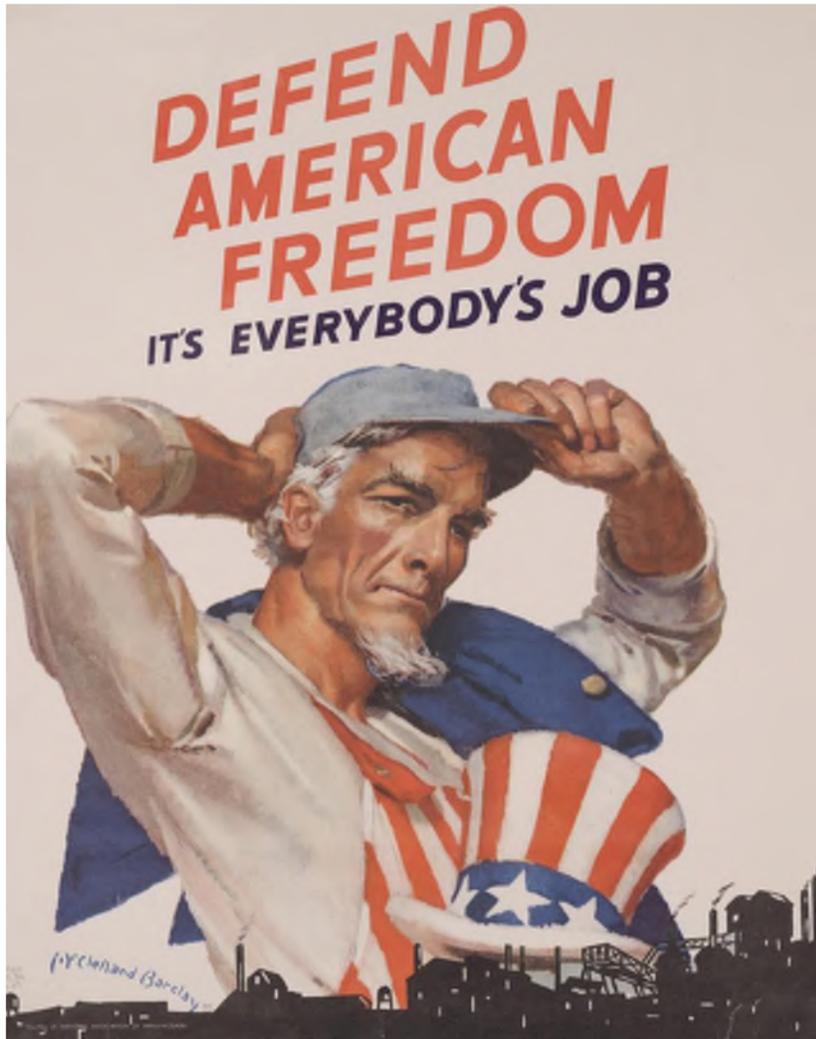


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(U) Questions



ENABLING ELITE FIGHTER OPERATIONS



This briefing is classified: **UNCLASSIFIED**

Current as of: 13 Jan 2025

Maj Christopher "Bullseye" Castaneda

Derived from: Multiple Sources

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Luke Air Force Base - Update

Lt Col Branden D. DeLong

Commander 56th Civil Engineer Squadron





Fly, Fight, & Win



Luke AFB Update

Lt Col Branden DeLong
56 Civil Engineer Squadron
Commander

29 JAN 2026



Overview



Fly, Fight, & Win

- Who I Am
- Luke AFB Overview
- 56th Civil Engineer Squadron
- Luke AFB Status of Infrastructure
- Luke AFB Construction Program Update
- How to Get Involved



Lt Col Branden DeLong



Fly, Fight, & Win



Class of 2008



Deployments:

- 2010 – Camp Griffin, Afghanistan
- 2012 – Camp Eggers, Afghanistan
- 2014 – Eskan Village, Saudi Arabia



"Quantifying Resiliency Risk Metrics through Facility Dispersion"



56TH FIGHTER WING

LUKE AIR FORCE BASE



The 56th Fighter Wing, headquartered at Luke Air Force Base, Phoenix, Ariz., is the largest fighter wing in the U.S. Air Force. The wing is part of Air Education and Training Command. The wing also oversees the Gila Bend Air Force Auxiliary Field and is steward of the 1.7 million acre Barry M. Goldwater Military Training Range.

MISSION

We train the world's greatest fighter pilots and combat-ready Airmen!

VISION

The world's premier fighter wing... advancing airpower to win tomorrow's fight.



WE TRAIN 75% OF THE WORLD'S F-35 PILOTS



Active: 5,280
Reserve: 2,365
Civilian: 2,876

ECONOMIC IMPACT

DIRECT: \$974 Million
INDIRECT: \$761 Million
INDUCED: \$697 Million
Total Economic Impact in AZ
\$3.8 Billion

LEADERSHIP



Wing Commander
Brig. Gen. David J. Berkland



Deputy Commander
Col. John D. Ryan



Command Chief
CMSgt. Nathan D. Christensen

LUKE AFB Public Affairs

14185 W. Falcon St., Bldg 452
Luke AFB, AZ 85309

Phone: (623) 856-6011 Email: 56fw.pa@us.af.mil

www.luke.af.mil



LUKE HISTORY

Luke Air Force Base is named for the WWII flying ace and Phoenix native Lieutenant Frank Luke Jr., the first aviator to receive the Medal of Honor. Lieutenant Luke scored 18 aerial victories, 14 against German observation balloons, before being killed at the age of 21 on Sept. 29, 1918.



THUNDERBOLT NATION

Since 1941, Luke has graduated over **61,000** pilots

260 F-35 pilots annually

79 Intel specialists annually

98 F-35 maintainers annually

8 Medical lab technicians annually

16 Critical Care/Emergency Trauma Fellowship annually

281 Air Control Squadron personnel annually

PARTNERS IN TRAINING

Italy



Netherlands



Norway



Singapore



Denmark



Belgium





Luke Fighter Wing Roadmap

Luke AFB, AZ



Fly, Fight, & Win

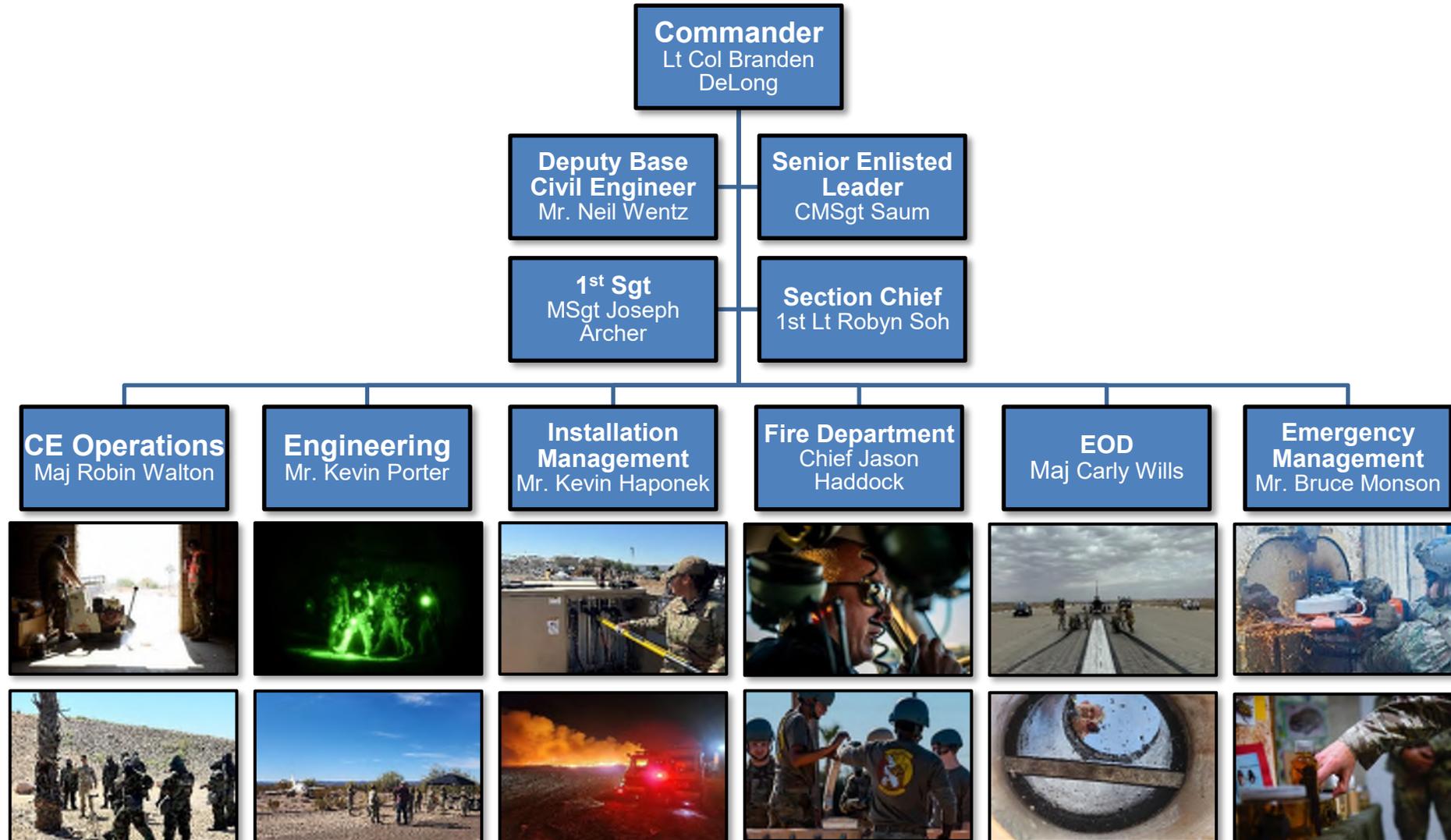
Type	Notes	CY24	CY25	CY26	CY27	CY28	CY29	CY30	CY31	CY32
USAF F-16	309 FS	7	4							
FMS F-16	 425 FS (RSAF)	12	12	12	12	12				
ADAIR	ATAC F-1	8	8	8	8	8	8	8		
	TACF-16A	4	4	4	4	4	4	4		
TOTAL 4th Gen	PAI only	31	28	24	24	24	12	12	0	0
USAF F-35		95	102	104	106	106	106	106	106	106
Partner F-35		27	28	32	37	38	38	38	38	38
62 FS	 Norway	6	6	6	6	6	6	6	6	6
62 FS	 Italy	7	8	8	9	10	10	10	10	10
308 FS	 Denmark	6	6	6	6	6	6	6	6	6
308 FS	 Netherlands	8	8	8	8	8	8	8	8	8
Sq 6	 Canada			4	8	8	8	8	8	8
FMS F-35 - 312 FS	 Belgium	8	8	8	8	8	8	8	8	
TOTAL F-35	PAI only	130	138	144	151	152	152	152	152	144
TOTAL A/C	PAI only	161	166	168	175	176	164	164	152	144



56th Civil Engineer Squadron



Fly, Fight, & Win



Cave Tonitrum



56 FW Real Property Managed Assets



Fly, Fight, & Win

Area	# Bldgs	SF Bldgs	# Facilities *	# Owned Acres	# Acres Leased/Easement/B LM	Total Replacement Cost
Luke AFB	686	5,092,246	1538	2,926.44	1,910.72	\$ 4,401,232,170
Gila Bend AFAF	43	137,518	168	0	2,652.70	\$ 249,743,656.60
Ft Tuthill	32	36,093	54	14.21	.05	\$ 42,129,834.50
Waste Annex	8	25,846	42	0	46.06	\$ 40,560,135.02
BMGR	8	7,323	115	42,881.98	1,110,126.36	\$ 968,747,211.40
Aux Field 1	1	1,000	20	400	705	\$ 152,656,559.40
Keystone Peak	1	200	3	0	4.34	0
Smiths Peak	0	0	1	0	.23	0
Sentinel Tracker	0	0	0	0	10.04	0
All other GSU's <small>Includes Dysart @ FDGC</small>	0	0	27	35.83	41.17	\$ 4,657,747.28
Totals	779	5,300,226	1,968	46,258.46	1,115,496.67	\$ 5,859,727,314

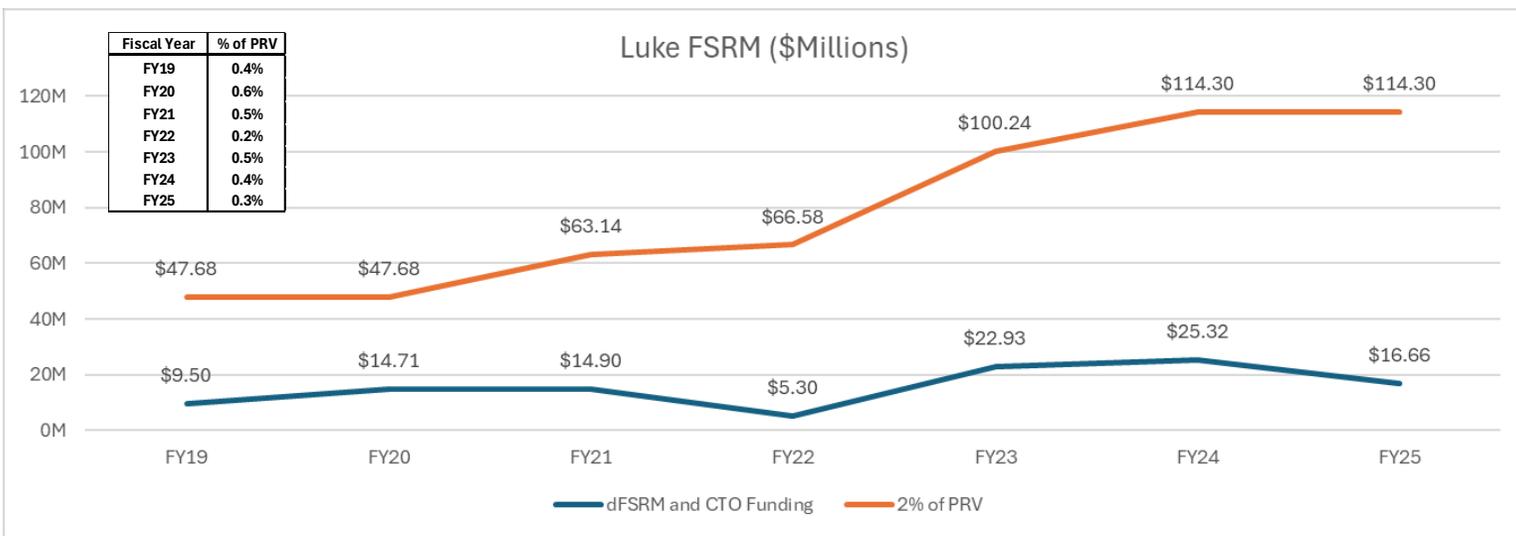
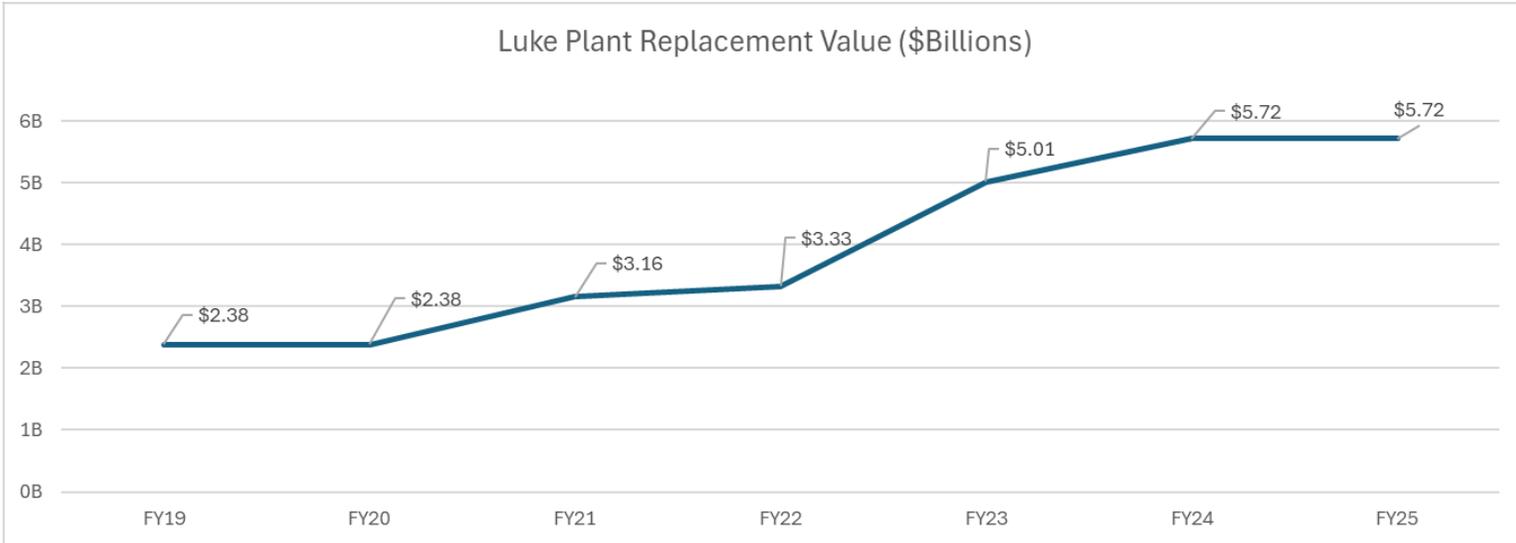
Facilities include buildings, structures, runways, lands, pavements, utility infrastructure, etc.



Luke PRV vs FSRM



Fly, Fight, & Win



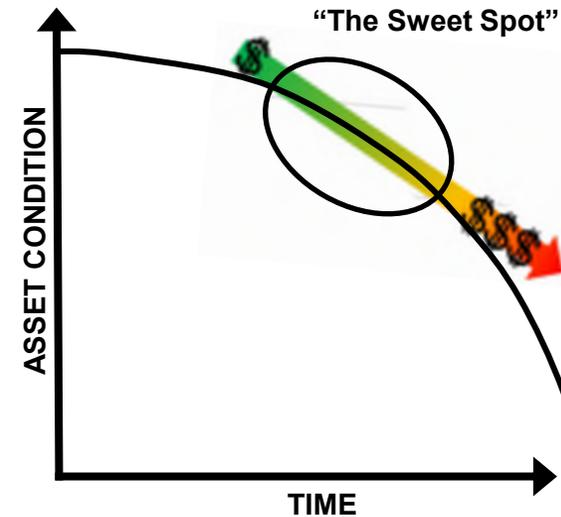
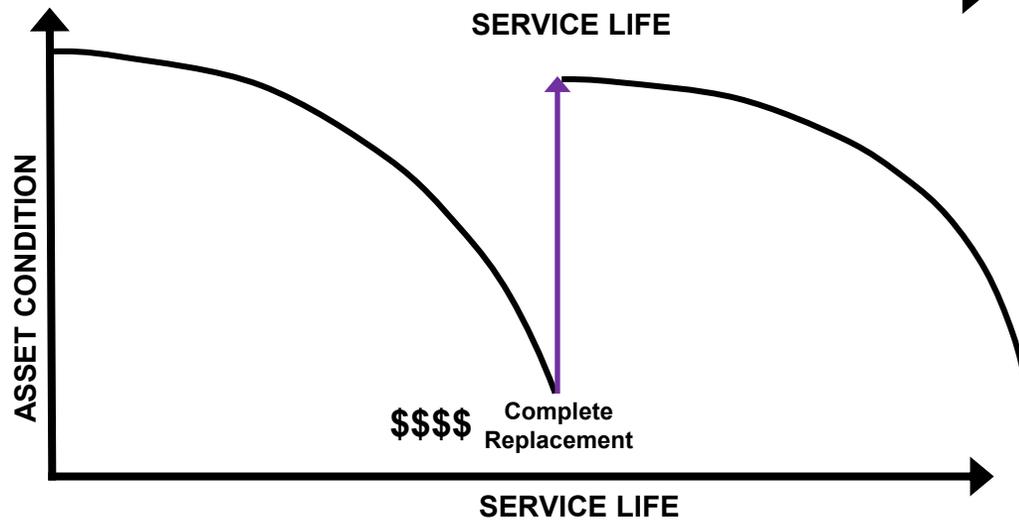
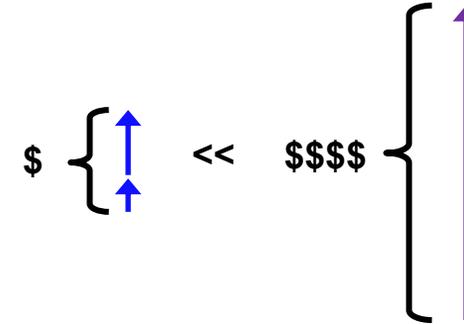
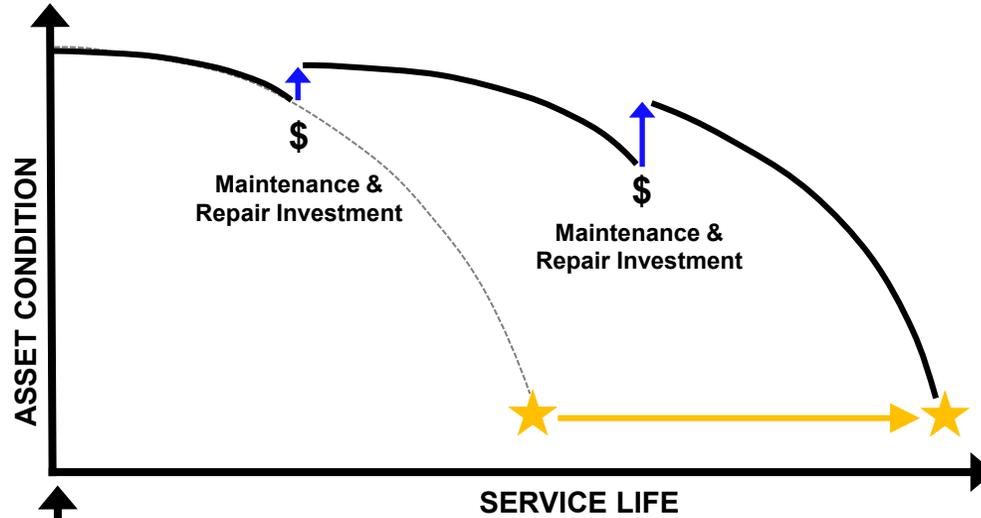
Cave Tonitrum



Asset Management Principles



Fly, Fight, & Win



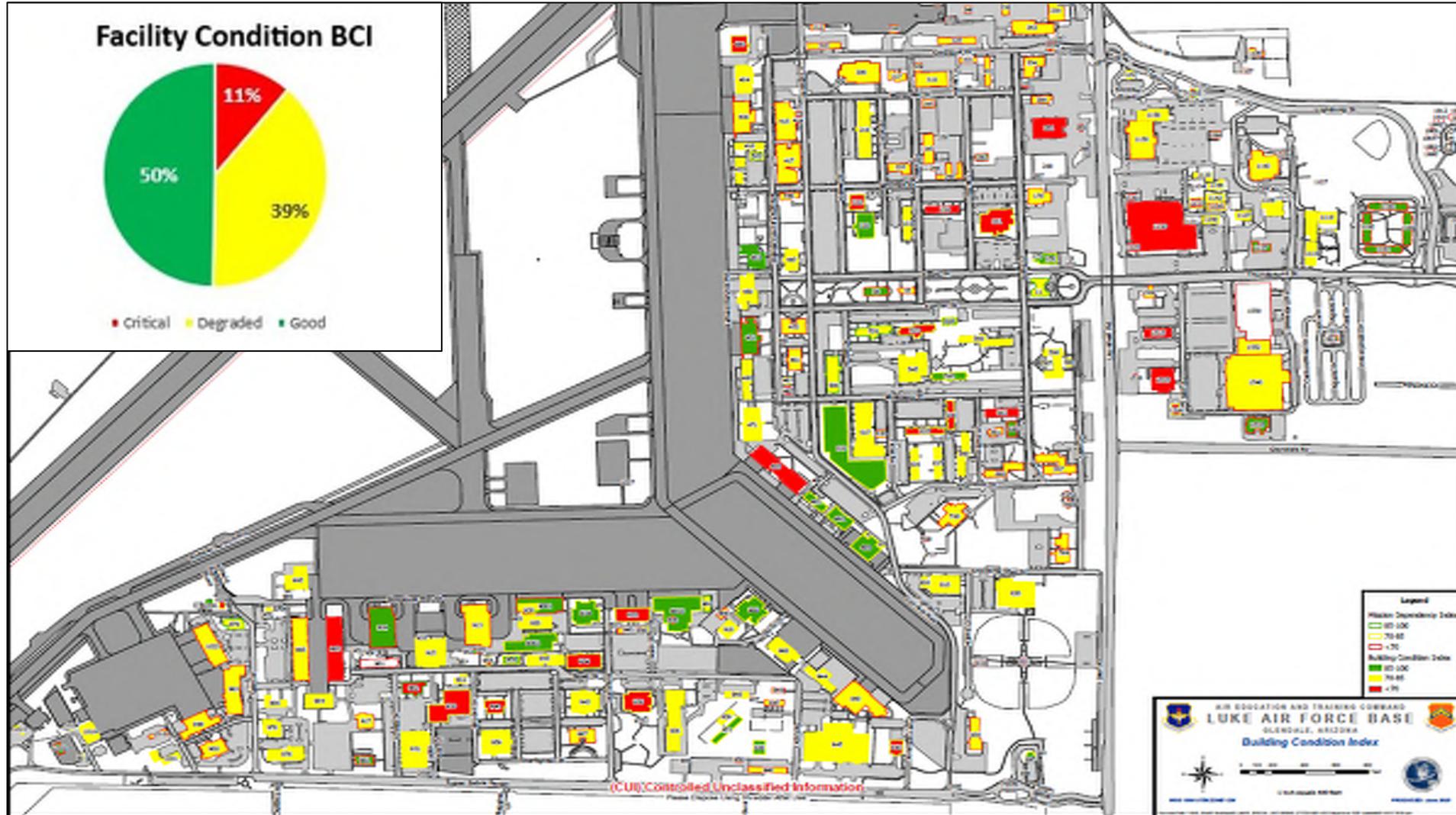
Investing in the sweet spot maximizes investment and extends service life.



Overall Facility Condition



Fly, Fight, & Win





Electrical



Fly, Fight, & Win





Plumbing



Fly, Fight, & Win





Roofs



Fly, Fight, & Win

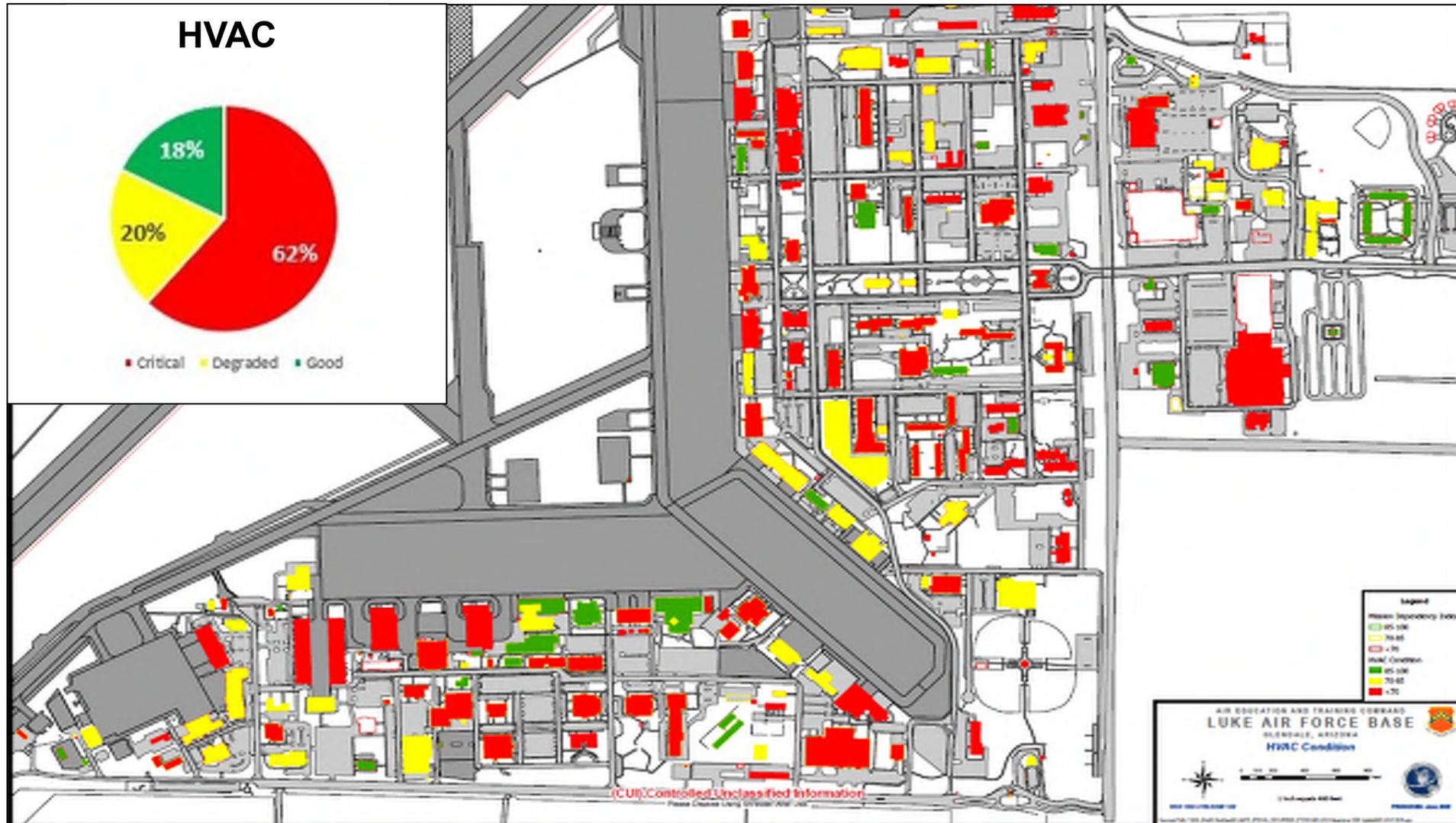




HVAC



Fly, Fight, & Win



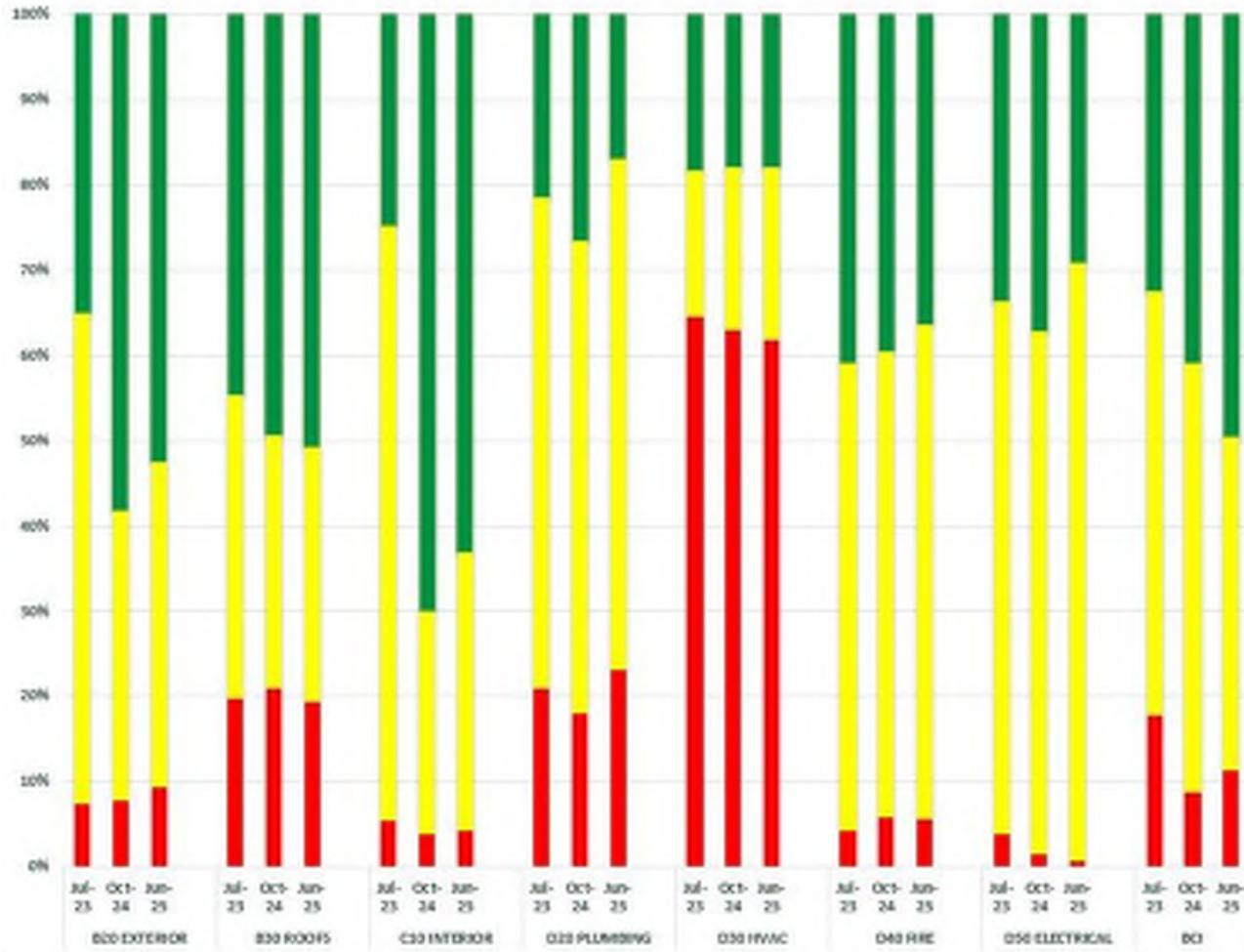


Infrastructure Condition



Fly, Fight, & Win

KEY 7 SYSTEMS AT A GLANCE



Takeaways:

- HVAC is biggest challenge
- Additional facilities changes condition breakdown each year
- Significant overall improvement



Airfield Condition



Fly, Fight, & Win

- Non-pavement/No data
- Good (86.00-100.00)
- Satisfactory (71.00-85.00)
- Fair (56.00-70.00)
- Poor (41.00-55.00)
- Very Poor (26.00-40.00)
- Serious (11.00-25.00)
- Failed (0.00-10.00)

Category Code	MDI
111111 - RUNWAY	99
116642 - SHOULDER, PAVED	95
112211 - TAXIWAY	95
113321 - APRON	95
116666 - PAD, WARMUP, HOLDING	95
116661 - ARMING AND DISARMING PADS	95
111115 - OVERRUN, PAVED	90
116672 - AIRCRAFT WASHRACK	78
116922 - AIRCRAFT ARRESTING SYSTEM SUPPORT	75





Roads & Parking Lots



Fly, Fight, & Win

- Non-pavement/No data
- Good (86.00-100.00)
- Satisfactory (71.00-85.00)
- Fair (56.00-70.00)
- Poor (41.00-55.00)
- Very Poor (26.00-40.00)
- Serious (11.00-25.00)
- Failed (0.00-10.00)



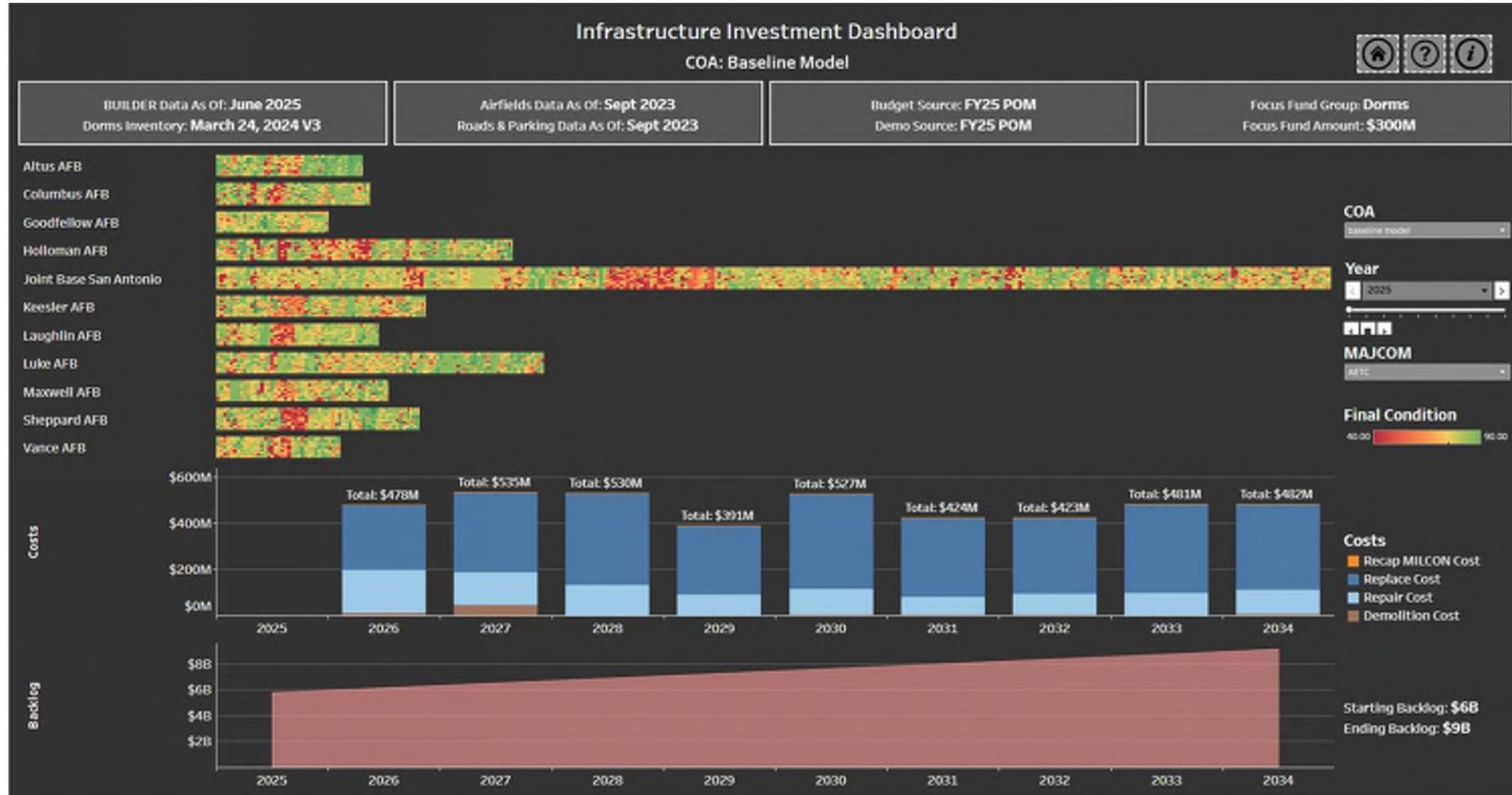


AETC

Infrastructure Health Assessment



Fly, Fight, & Win





Installation Health Assessment



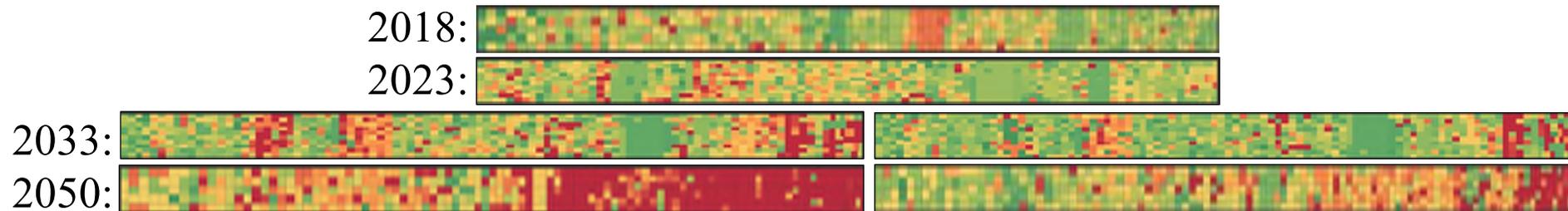
Fly, Fight, & Win

- **54,000 AF facilities → 2,500 Luke AFB Facilities**
- **\$24B AF deferred mx → \$396M Luke AFB deferred mx**
- **Installation Investment Strategy (I2S)**
 - AF commitment to increase annual funding to 2% plant replacement value
 - Today's deferred mx & recapitalization cost will triple in 30 years if funding remains status quo

Infrastructure outlook in 2018, 2023, 2033 & 2050

Current funding Levels

I2S funding Levels



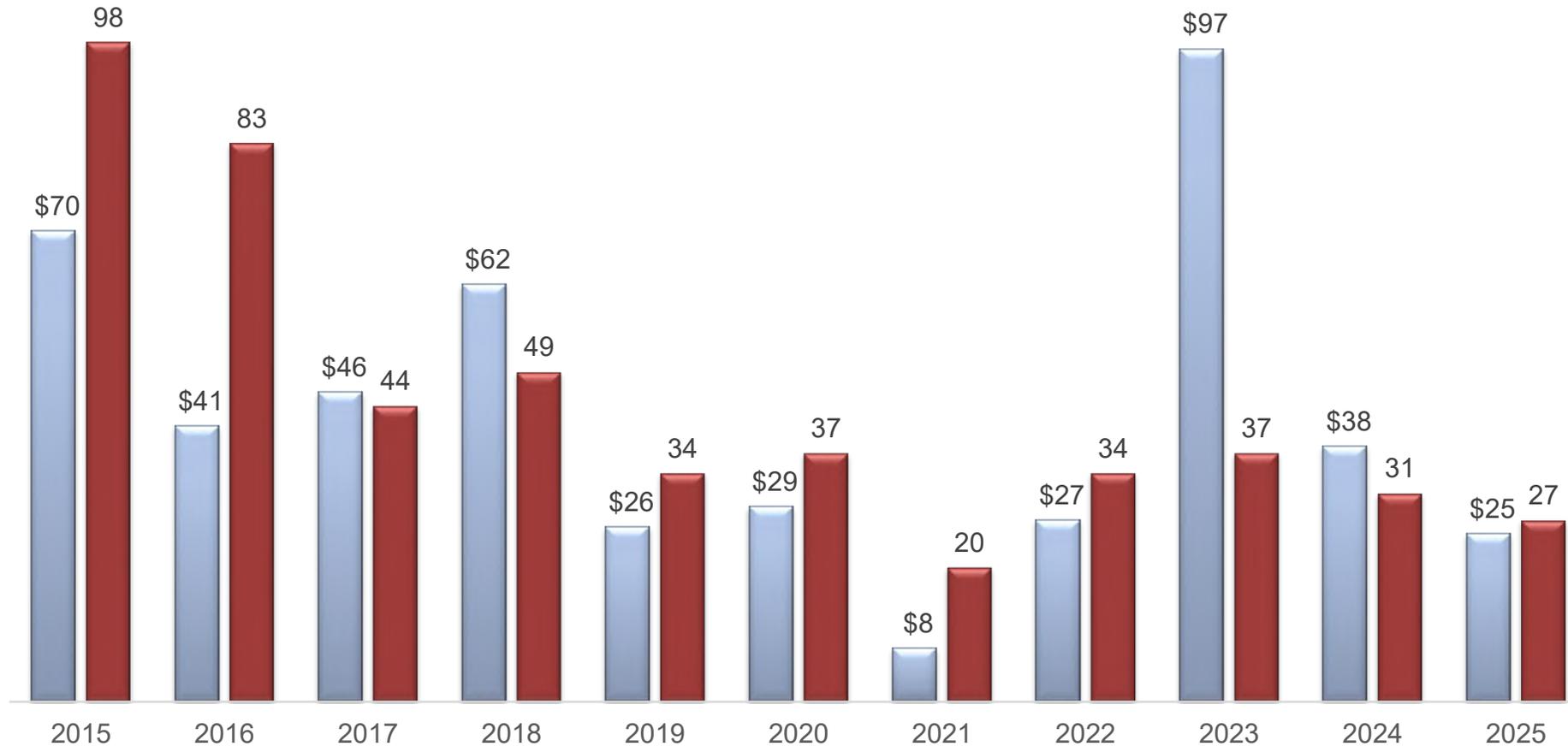


Historical Project Execution



Fly, Fight, & Win

■ Executed in \$M ■ # Projects





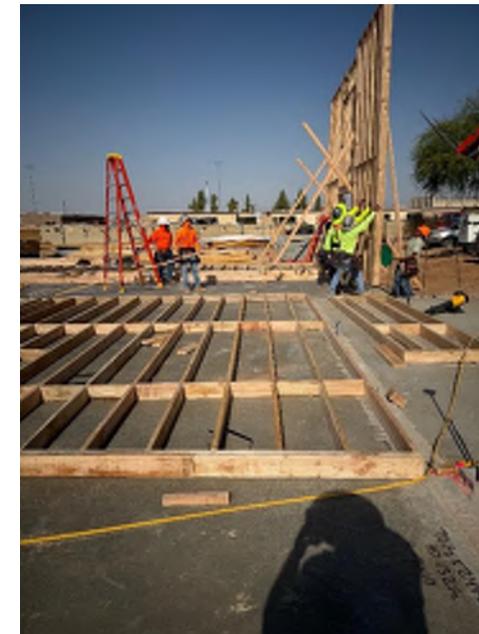
FY25 Program Roll-up



Fly, Fight, & Win

■ FY25: 27 Projects/\$25M

- Repair AHU 5 & Controls Bldg 1150 - \$1.5M – Sole Source
- Repair HVAC System Bldg 993 - \$2.6M – SABER IDIQ
- Repair Roof Bldg 1113 - \$495K – Sole Source
- Runway Rubber Removal & Paint (Luke & GBAF) - \$540K – Paving IDIQ
- Design – Renovate Dorm 530 - \$3.1M – A&E IDIQ



Cave Tonitrum



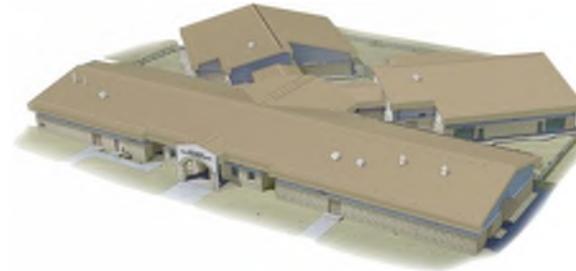
MILCON / UMMC



Flv. Fiaht. & Win

■ MILCON

- Construct Child Development Center – Construct a 36,533 square foot Child Development Center (CDC) building to accommodate 304 infant and children ages six weeks through five years old.



- Control Tower/Fire Station/Base Ops Complex, Gila Bend
- Demolish three facilities and construct new 31,000 sf facility.

■ Minor MILCON (UMMC)

- Construct North Turnaround, Gila Bend AFAF
– 2 Parking Spot Turnaround.





Future Program Projects



Flv. Fiaht. & Win

- Facility Sustainment (FSRM)
 - Replace Natural Gas Risers – Phase 2
 - Replace Boiler, Bldg 620
 - Replace Fire Alarm System, Bldg 617
 - Replace CRAC Unit, Bldg 934
 - Repair Water Control System with SCADA Controls
 - Convert HVAC Controls Multi Facility – Phase 2
 - Upgrade Water Infrastructure
 - Repair Hangar Roof, Bldg 985
 - Relocate Taxiway Edge Signs
 - Electrical Master Plan Study

- Other
 - Micro Grid
 - Geothermal Plant
 - DLA Government Vehicle Fueling Station (Contractor Owned/Operated)
 - Waymo



F-35 MILCON



Fly, Fight, & Win

Projects	Program Year	Amount (\$000)	Status
Academic Trng Ctr	FY11	49,584	Complete
Squad Ops #1	FY11	14,670	Complete
Add/Alter AMU #1	FY12		Complete
Squad Ops/AMU #2	FY12	12,904	Complete
Squad Ops/AMU #3	FY14	15,838	Complete
Field Training Det	FY14	4,700	Complete
Const Hangar #2	FY15	11,603	Complete
Flight Line Fillstands	FY15	13,097	Complete
Const Squad Ops/ AMU/Hangar #4	FY16	23,915	Complete
Const Munitions Build-up Pad	FY16	4,230	Complete
Const 6-Bay Maint Hangar #3	FY16	11,200	Complete
Fuel Offload Facility	FY16	4,710	Complete
Squad Ops/AMU #5	FY17	17,085	Complete
Alter Hangar For AMU #6	FY23	30,569	Under Construction
Const Squad Ops #6	FY23	21,833	Under Construction
TOTAL		\$235,938	91% Complete



How to Get Involved



Fly, Fight, & Win

- Honorary Commander Program
 - Pair base leadership with community leaders who have limited or no knowledge about the Air Force, its mission and the 56th Fighter Wing at Luke Air Force Base.
 - Civilian participants will be selected from business leaders and others who, because of their position or influence in the community, can positively impact public support for the base.





Questions?

Luke AFB Update – 56th Contracting Squadron

Lt Col Christopher James

Commander 56th Contracting Squadron



Lt Col Christopher James

Commander 56th Contracting Squadron



UNITED STATES AIR FORCE

Lieutenant Colonel Christopher C. James is the Commander, 56th Contracting Squadron, Luke Air Force Base, Arizona. He leads a team of 44 mission-focused military and civilian business leaders in the annual execution of service, supply, construction, and specialized contracts totaling \$91 million in support of the Air Force's Largest Fighter Wing, the 944th Fighter Wing, and the Barry M. Goldwater Range. The squadron also trains and equips mission-ready joint Contingency Contracting Officers for world- wide deployment. Lieutenant Colonel James is a key member of the wing's senior staff and principal business advisor to the Wing Commander.

Lieutenant Colonel James entered active duty in 2009 after commissioning through the Air Force Reserve Officer Training Corps program at Loyola Marymount University, Los Angeles, California. Shortly after entering the Air Force, he earned a Master of Business Administration degree from National University, La Jolla CA, in 2010. Before entering the Contracting career field in 2014, Lieutenant Colonel James served in the nuclear enterprise. Positions held include: Intercontinental Ballistic Missile Combat Crew Commander, ICBM Combat Crew Instructor, and Assistant Flight Commander.

As a contracting professional, in 2020, Lieutenant Colonel James deployed to Kabul, Afghanistan as the Chief of Contract Integration for the Combined Security Transition Command as a member of NATO forces in support of OPERATION RESOLUTE SUPPORT. He's held an unlimited warrant and served as a Contracting Officer and Contracting Division Chief on orbital and ground based offensive counter space weapon programs as a part of the Space Systems Center, Los Angeles Space Force Base, CA. In addition, Lieutenant Colonel James was the Director of Operations and Chief of Policy for the 502d Contracting Squadron, executing a \$1.1B portfolio in support of 266 mission partners and the largest joint base in the Department of Defense. Prior to his current assignment, he was a graduate student in Air Command and Staff College with a concentration in space strategy as a member of the Schriever Space Scholars. Following graduate studies, his research on the effects of over classification on space weapon system procurements was published by a peer reviewed journal in 2023.



Lt Col Christopher James

Commander 56th Contracting Squadron

EDUCATION

- 2009 Bachelor of Arts, Film and Electronic Arts, California State University, Long Beach, CA
- 2010 Master of Business Administration, National University, La Jolla, CA
- 2010 Air and Space Basic Course, by residence, Maxwell AFB, AL
- 2015 Squadron Officer School, by correspondence and residence, Maxwell AFB, AL
- 2020 Air Command and Staff College, by correspondence
- 2021 Executive Development Seminar, Kenan-Flagler Business School, University of North Carolina
- 2023 Air Command and Staff College (Schriever Space Scholars), by residence, Maxwell AFB AL

ASSIGNMENTS

1. June 2009 - February 2010, Navigator Student, 562d Flying Training Squadron, Randolph AFB, Texas
2. February 2010 - October 2010, ICBM Combat Crew Student, 392d Training Squadron, Vandenberg AFB, CA
3. October 2010 - July 2011, ICBM Combat Crew Deputy Commander, 742d Missile Squadron, Minot AFB, North Dakota
4. July 2011 - May 2012, ICBM Combat Crew Deputy Commander (Squadron Command Post), 742d Missile Squadron, Minot AFB, ND
5. May 2012 - April 2013, ICBM Combat Crew Instructor, 91st Operations Support Squadron, Minot AFB, ND
6. April 2013 - Jan 2014, ICBM Combat Crew Commander, 742d Missile Squadron, Minot AFB, ND
7. Jan 2014 - Mar 2014, ICBM Combat Crew Commander (Squadron Command Post), 742d Missile Squadron, Minot AFB, ND
8. March 2014 - November 2014, Assistant Flight Commander, 742d Missile Squadron, Minot AFB, ND
9. November 2014 - January 2016, Contract Specialist, Operational and Specialized Contracting Division, Los Angeles AFB, CA
10. January 2016 - May 2018, Contract Specialist, Space Superiority Systems Division, Los Angeles AFB, CA
11. May 2018 - June 2019, Contracting Division Chief for Offensive Space Systems, Space Superiority Systems Division, Los Angeles AFB, CA
12. June 2019 - June 2020, Director of Operations, 502d Contracting Squadron, JBSA-Lackland, TX
13. June 2020 - October 2020, Chief, Contract Enabling Cell, Combined Security Transition Command – Afghanistan
14. October 2020 – June 2021, Chief of Policy, 502d Contracting Squadron, JBSA-Lackland, TX
15. June 2021 – July 2022, Chief, Contracting Inspections, Air Force Installation Contracting Center – Operating Location Air Education and Training Command, Randolph AFB, TX
16. July 2022 – July 2023, Student, Air Command and Staff College, 21st Student Training Squadron, Maxwell AFB, AL
17. June 2023 – Present, Commander, 56th Contracting Squadron, Luke AFB, AZ

MAJOR AWARDS AND DECORATIONS

- Defense Meritorious Service Medal
- Meritorious Service Medal with two oak leaf clusters
- Air Force Commendation Medal
- Air Force Achievement Medal with three oak leaf clusters

PUBLICATIONS

"The Cost of Space System Classification", Aether: A Journal of Strategic Airpower & Spacepower, Maxwell Air Force Base, Alabama, 2023.

EFFECTIVE DATES OF PROMOTION

Second Lieutenant	May 27, 2009
First Lieutenant	May 27, 2011
Captain	May 27, 2013
Major	April 01, 2019
Lieutenant Colonel	March 01, 2024

Luke Update



56th Contracting Squadron

OVERVIEW

- About Me
- Small Business Program and Competition
- Doing Business with the Air Force
- Tips
- 56th Contracting Squadron Potential Opportunities
- Prime Contractor Information
- Strategic Contracts
- Small Business POCs



ABOUT ME



WHAT WE DO FOR THE 56TH FIGHTER WING >>>>>

\$76M SPENT IN FY 2025

Of the \$76M, \$8.4M was awarded to Arizona small businesses, boosting the local economy.

QUALITY ASSURANCE PROGRAM

Trained 27 Contracting Officer Representatives (CORs) managing 34 service contracts base wide.



FAR/DFARS/DAFFARS (MAKE IT LEGAL)

When in doubt, CALL one of our 3 Flight Chiefs, 5 Team Leads, or any Contract Specialist! We will find the correct path forward.

GOVERNMENT PURCHASE CARD

The 56 FW's \$15M GPC Program allows units to internalize just-in-time purchasing capabilities for supplies, services, & construction under the micro-purchase threshold.



SMALL BUSINESS PROGRAM & COMPETITION >>>>>

MR. CHAD LAVALLEY, chad.lavalley.1@us.af.mil

Small Business Professional (56 CONS/DBO) oversees programs and goals approved by 56 FW/CC and reported to SAF through AETC.

- Bottom Line: Small Businesses get a fair share of the FW "Spend".
- Everything \$350K or less is reserved for small business!
 - THIS INCLUDES GPC BUYS ABOVE THE MICRO-PURCHASE THRESHOLD!
- The Competition in Contracting Act (CICA) requires purchases to be competed to the maximum extent practicable.
- In FY25, 56 CONS did over \$65M in Small Business contracts!



DOING BUSINESS WITH THE AIR FORCE

Register in the government database



- System for Award Management:
www.sam.gov
 - Obtain a Unique Entity Identifier (UEI)
 - Core data (Name, address, org type, financial information)
 - Assertions (NAICS, size metrics)
 - Reps & Certs (FAR questionnaire)
 - SBA Dynamic Small Business Search

TIPS!

- ✓ Watch [sam.gov](https://www.sam.gov), GSA e-buy or 56 Contracting Squadron FaceBook page for opportunities (sources sought, pre-solicitations, & solicitations)
- ✓ Be willing to compete
- ✓ Ensure you have the appropriate North American Industry Classification System (NAICS) for the services and products that you provide
- ✓ Keep your Small Business Dynamic Search information updated. Key words are important.
- ✓ Concise Capabilities Statement to market your company to capture core organic capability
- ✓ Read the entire solicitation & performance work statement
- ✓ Have employees that can meet strict base access requirements
- ✓ Attend site visits/pre-proposal conferences



56th Contracting Squadron Potential Opportunities >>>>>

Construction IDIQs

- Airfield & Base Paving IDIQ
- Maintenance & Repair IDIQ
- SABER IDIQ
- Architect & Engineering Services IDIQ (Expected FY26)
- Multiple Award Construction Contract (MACC) (Expected FY27)
- Davis Monthan (MACC) - Subcontract opportunities
- SABER - Subcontract opportunities

Services

- Barry M Goldwater Range, prime & subcontract opportunities



Prime Contractor Information



- Gila Bend Aux Field & Barry Goldwater Range - Tunista Services LLC
Rick Carr (623) 810-5800 (expires 30 Sep 26)
- Airfield/Base Paving IDIQ –MRM Construction Services Inc.
Marie Torres (602) 340-0378 (Expires 3 Jun 29)
- Simplified Acquisition of Base Engineering Requirements (SABER) - Four Tribes Enterprises, LLC
Brad Kraay (480) 450-1160 (expires 11 Jul 27)
- Maintenance & Repair IDIQ (M&R) – Diversified Maintenance Systems Inc.
Andrew Umphries (801) 556-2179 (expires 2 Aug 26)

Current Strategic Contracts

Comprehensive Construction & Engineering (C2E)

The services solicited under the C2E encompass the full range of methods, technologies and supporting activities necessary to conduct a DB or DBB construction requirement in accordance with technical and regulatory requirements at Air Force installations and other installations worldwide. Such services include construction-phase design services where necessary to accomplish a project requirement, including DB construction design requirements and DBB construction delegated design requirements.



SMALL BUSINESS POCs >>>>>

Mr. Chad LaValley (SB Program Lead & Infrastructure Flight Chief) –
chad.lavalley.1@us.af.mil

Lt Col Chris James (Commander) –
christopher.james.10@us.af.mil



THANK YOU!



**56TH CONTRACTING SQUADRON
LUKE AFB, AZ**



Thank You



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- Future Topics that you would like to see
- Please let us know what you liked / didn't like
 - Event location
 - How we can improve

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