Welcome to Central Florida's Heartland

Jennifer Codo-Salisbury
Executive Director

Central Florida Regional Planning Council





Central Florida's Heartland

Polk
Hardee
Highlands
Okeechobee
Desoto
Glades
Hendry



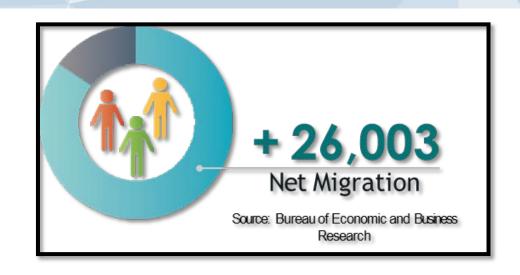
- > 7 counties, 28 cities
- > 1 military installation (APAFR)
- > 2 water management districts
- > 2 transportation planning organizations
- Green Swamp
- > Peace River Basin, Kissimmee River Basin
- Lake Wales Ridge
- Lake Okeechobee
- Headwaters of the Everglades
- Avon Park AFR Sentinel Landscape



The Region

948,878

2021 Estimated **Region Population**



MEDIAN AGE

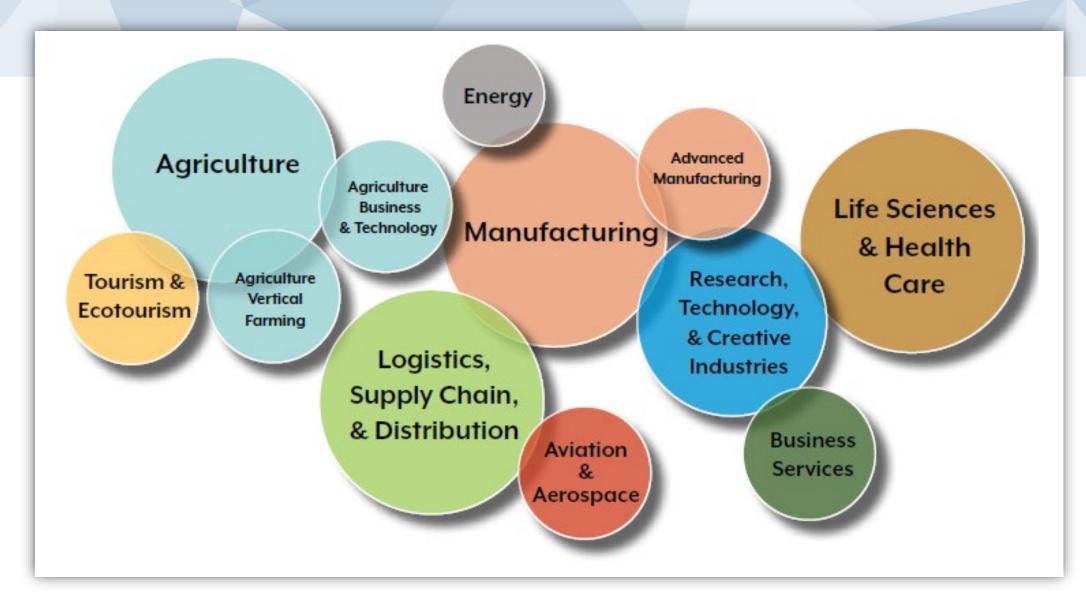
40.7 35.4 DESOTO HARDEE

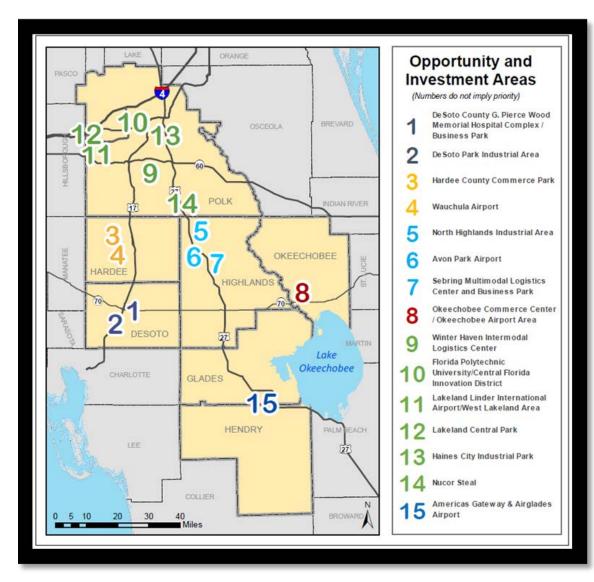
54.1 **HIGHLANDS**

40.9 **OKEECHOBEE**

40.2 **POLK**

Target Industry Clusters





Opportunity And Investment Areas

15 Total Investment Areas

7 New Investment Areas

Desoto County

DeSoto Park Industrial Area

Hardee County

Wauchula Airport

Highlands County

North Highlands Industrial Area

Avon Park Airport

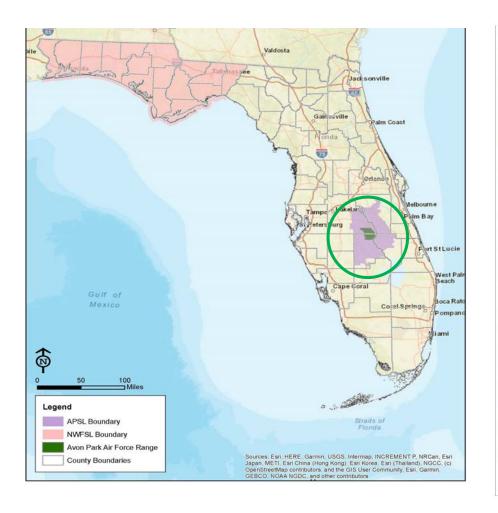
Polk County

Nucor Steel

Lakeland Central Park

Haines City Industrial Park

Avon Park Air Force Range Sentinel Landscape





- Located in Central Florida
 - 4 Counties
 - 9 Municipalities
- 1.67 million acres
- Avon Park Air Force Range
- One of two Landscapes in Florida
- Florida Wildlife Corridor Opportunity Areas



Sentinel Landscape Mission







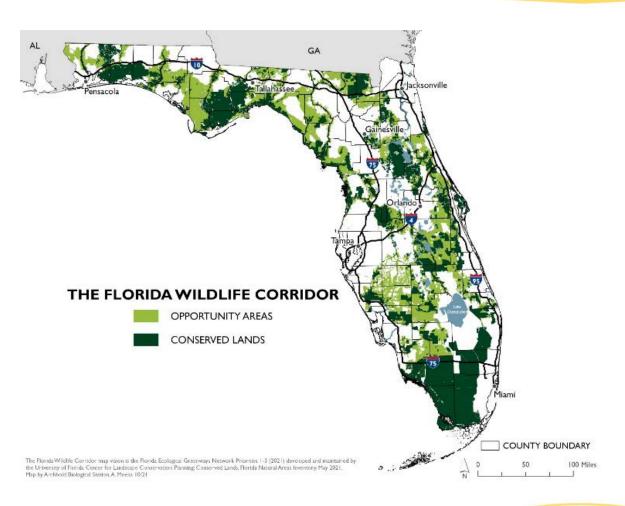
A Partnership for the future:

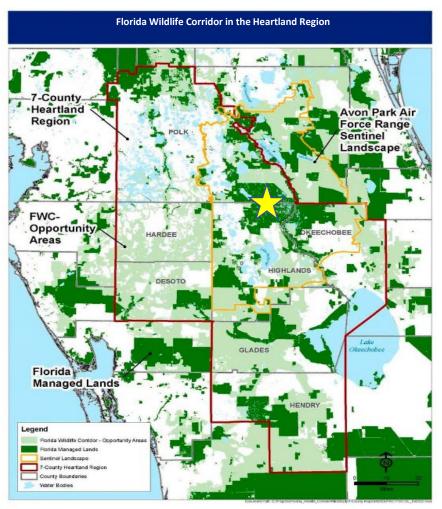
- Supporting agriculture
- Respecting natural resources
- Strengthening military readiness



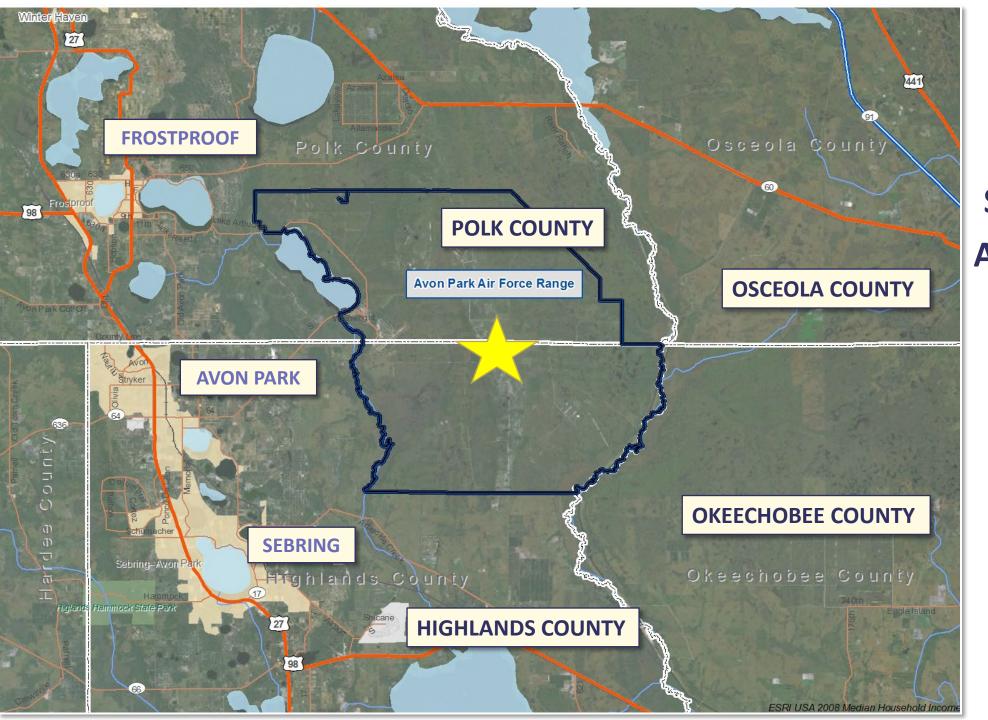


APAFR Sentinel Landscape & Florida Wildlife Corridor









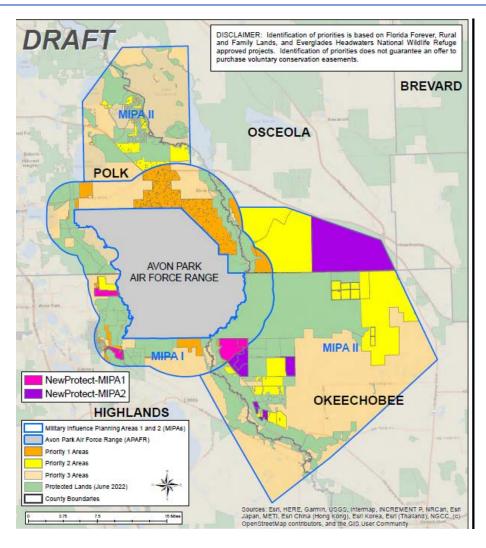
Communities
Surrounding/Near
Avon Park Air Force
Range

Population Growth Communities Near the Range

2010 to 2021 Population

	2010	April 1, 2021	% change 2010 - 2021
Highlands County	98,786	102,065	3.32%
Avon Park	8,836	9,721	10.02%
Sebring	10,491	10,894	3.84%
Okeechobee County	39,996	39,148	-2.12%
Osceola County	268,685	406,460	51.28%
Polk County	602,095	748,365	24.29%
Frostproof	2,992	2,944	-1.60%

Conservation Easements in Avon Park Air Force Range MIPAs



Partnerships

- Property Owners
- FDSTF
- Local, State, Federal Agencies & Governments
- Public, Private & Non-Profit Entities
- Communities



CONTACTS

Jennifer Codo-Salisbury, MPA, AICP Executive Director

Email: jcodosalisbury@cfrpc.org

Sheila McNamara, SFP Resiliency Program Manager

Email: smcnamara@cfrpc.org





598th Range Squadron







Overview



- Mission Statement/Strategy
- APAFR Overview
- Airfield Modernization
- ACE/LFE Utilization
- Future Opportunities





Mission Statement







Mission Support Strategy



- The 598th Range Squadron Support Branch mission is to deliver mission-ready support facilities, infrastructure, base operations support services, logistics, fire services, environmental services, and communications support assuring success in training for our customers
 - Environmental Quality Program: Identify, document, inventory and sustain all natural and cultural resources on APAFR, and maintain compliance with all applicable environmental legislation
 - Avon Park Fire Department: Protect Avon Park Air Force Range personnel, property and the environment through preventative measures and direct intervention

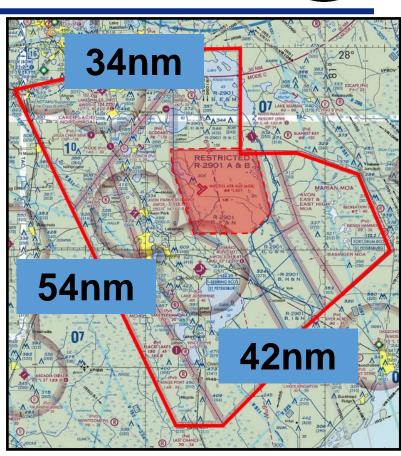
Operations is the tip of the iceberg!



Avon Park Overview



- Total Personnel
 - Active Duty = 4
 - Government Service = 38
 - Contractor = 59
- 106K-Acre Day/Night Training Range
- 8K' Uncontrolled Runway w/ BAK-12s and Fuel, located w/in restricted airspace
- 3.6K' Assault Strip
- Small Arms Range
- 13 Military Training Routes + 7 Air Refueling Tracks
- 189 sq. miles of restricted airspace

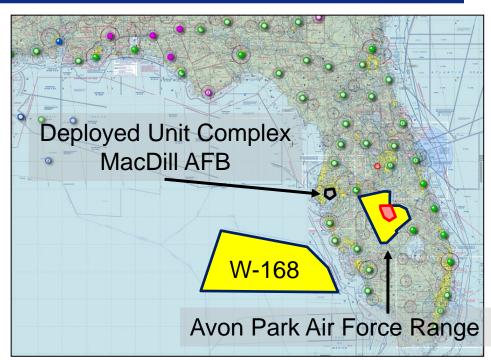




Avon Park at MacDill



- 2 turn-key facilities at MacDill AFB w/ 1AD and 3 Civ.
- Ops: ops desk with radios, briefing/AFE rooms
- Mx: bay for tool/supply storage, office space
- Dedicated GOVs available
- Owns W-168: 8K sq miles over Gulf of Mexico
- Opportunities to train with Homestead F-16s, Key West F-18s/F-5s, Patrick HH-60s
- DUC renovation underway

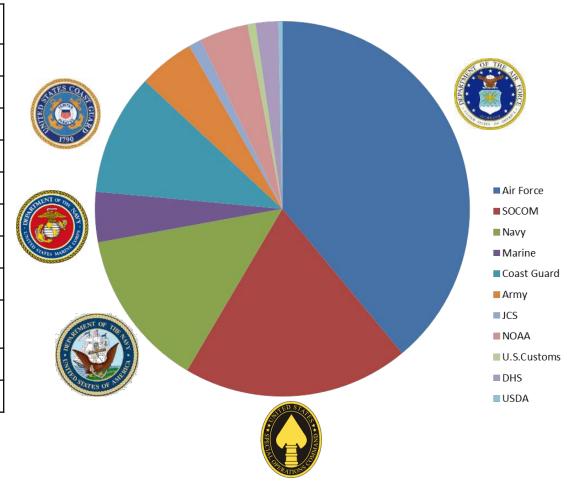




User Breakdown



HOURS (YTD)	%
2069	35.97%
1135	19.73%
813	14.14%
215	3.75%
577	10.03%
438	7.61%
53	0.92%
244	4.24%
33	0.57%
158	2.75%
16	0.29%
	2069 1135 813 215 577 438 53 244 33 158





Airfield Modernization



- Runway complete Jun '20
- Reconstructed ramp space Feb '21
- Main ramp stadium lighting Feb '21
- Airfield security fence Feb '22
- Future
 - Gateway to link us to Moody AFB









ACE/LFE Utilization



- Vision for ACE exercises
 - MOSAIC TIGER (23d WG/4 FW)
 - Moody/APAFR/Patrick/MacDill
 - A-10/HC-130/HH-60/F-15E
 - PJs/CCT/820 BDG
 - Whiteman AFB in Oct-Nov 2021
 - AGILE FLAG 22-1





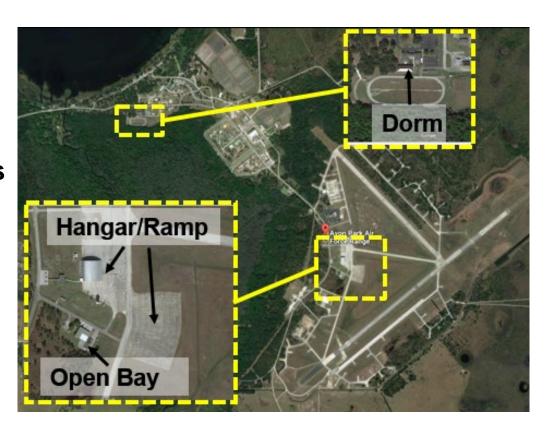




ACE/LFE Utilization



- 8,000 x 150 Runway
 - 3,700 x 60 Assault Strip
 - Permanent FARP sites
 - Contract fuel w/Sebring Airport
- Dorm facilities with 32 rooms
- Acres of area for expeditionary buildings
- Open bay with 105 beds and office space
- Hangar with ops desk, briefing rooms, AFE room
- Weapons/explosive storage available

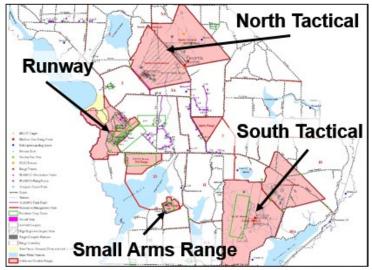




ACE/LFE Utilization



- Two tactical impact areas plus small arms/helicopter range
- Large enough for simultaneous operating areas
- Drop zones enable assault on runway/tactical areas
- Isolated range: large target areas with 360° run-ins



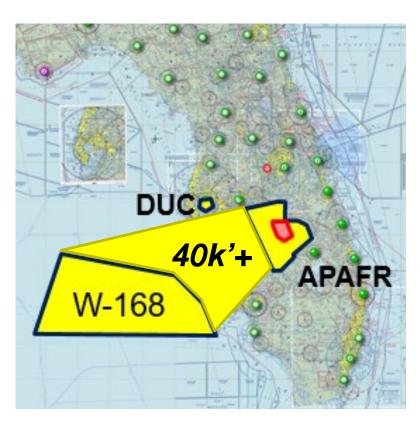




Future Opportunities



- "Sarasota Shelf" idea
 - Discussed with FAA
 - Plausible, but requires advocacy
 - Would greatly expand training footprint for 5th-generation ops
- Threat replication/emmitters
 - Guard/Reserve locations
 - Take APAFR from low-threat A-G range to cross-domain training area
- APAFR ranking amongst other AF ranges
 - RAND Corp study
 - Airspace/security limitations





Summary



- Mission Statement/Strategy
- APAFR Overview
- Airfield Modernization
- ACE/LFE Utilization
- Future Opportunities





Questions?



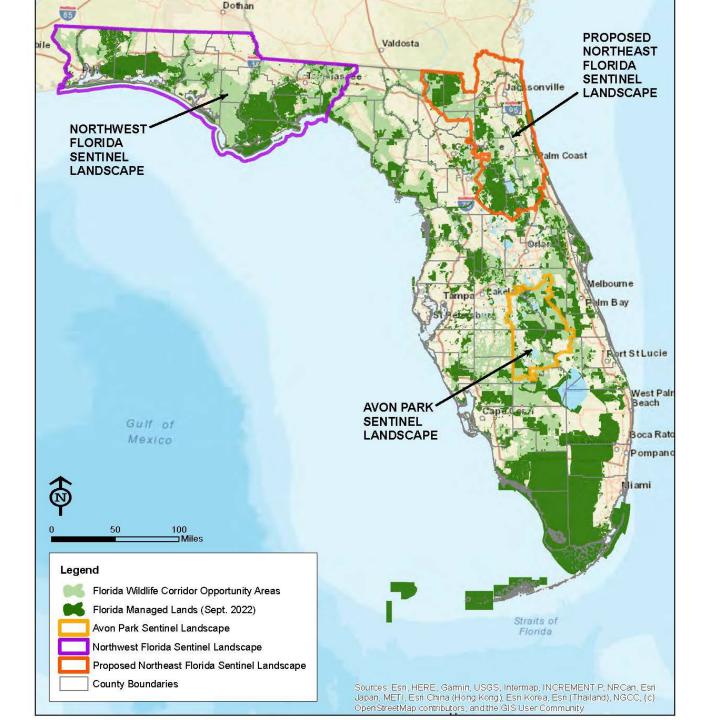






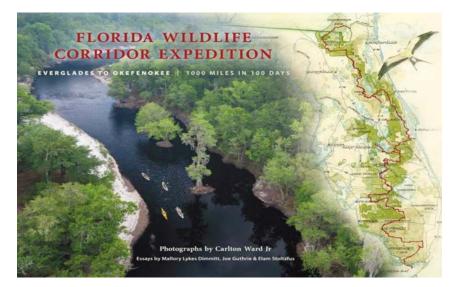








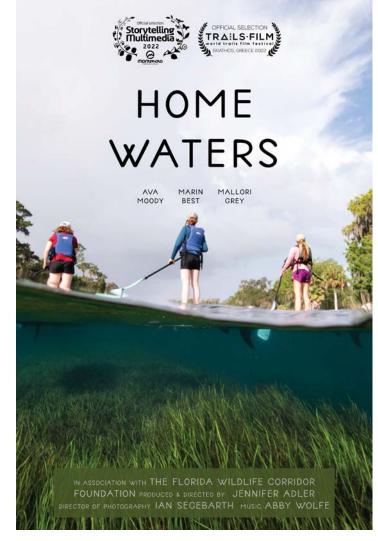
FILMS





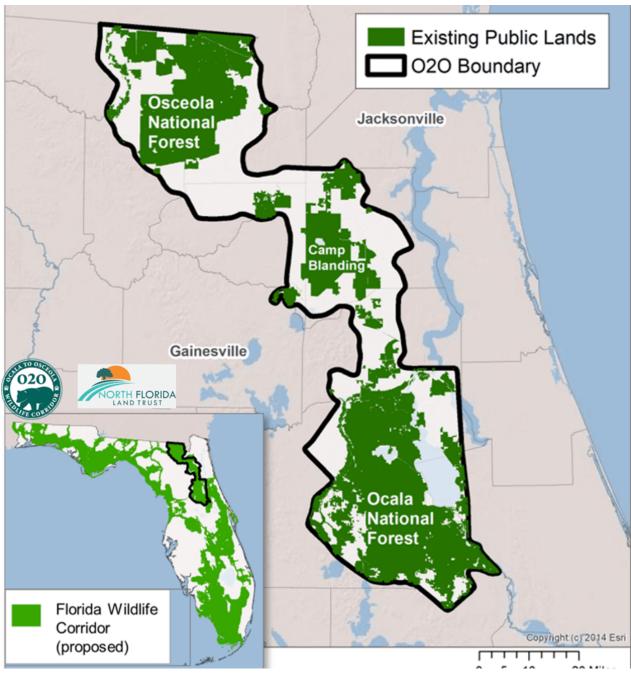




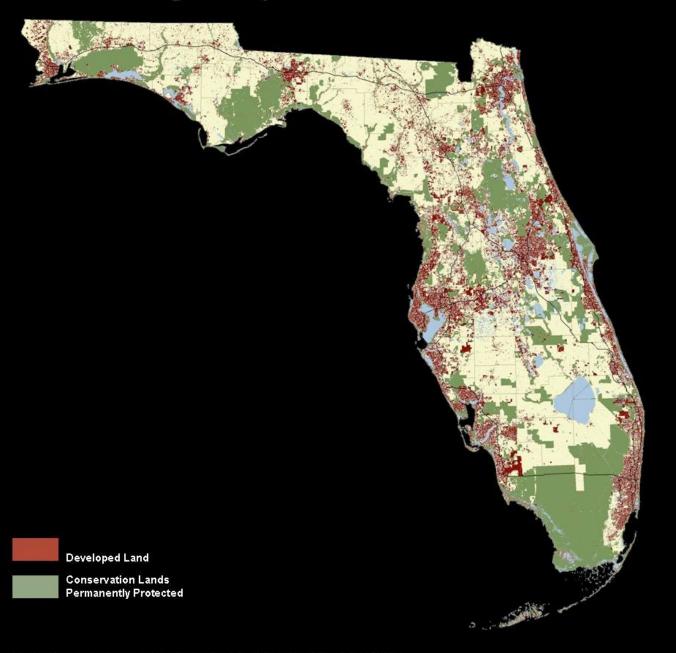






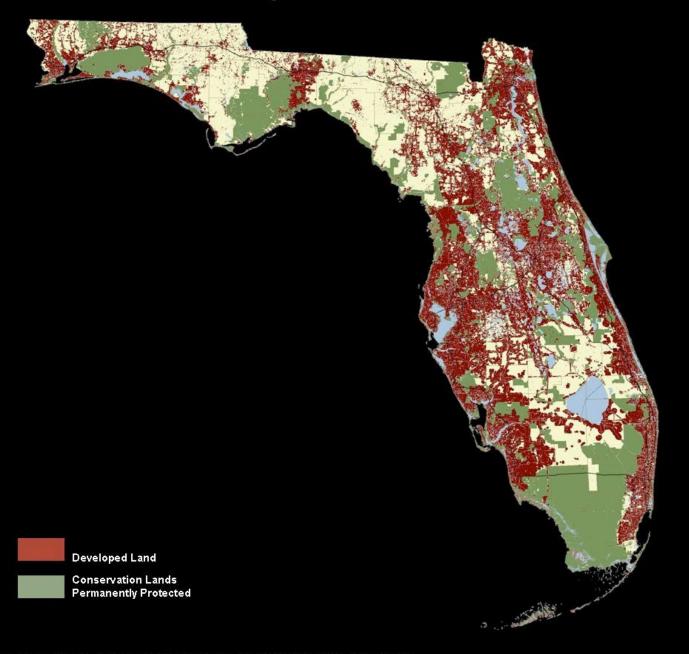


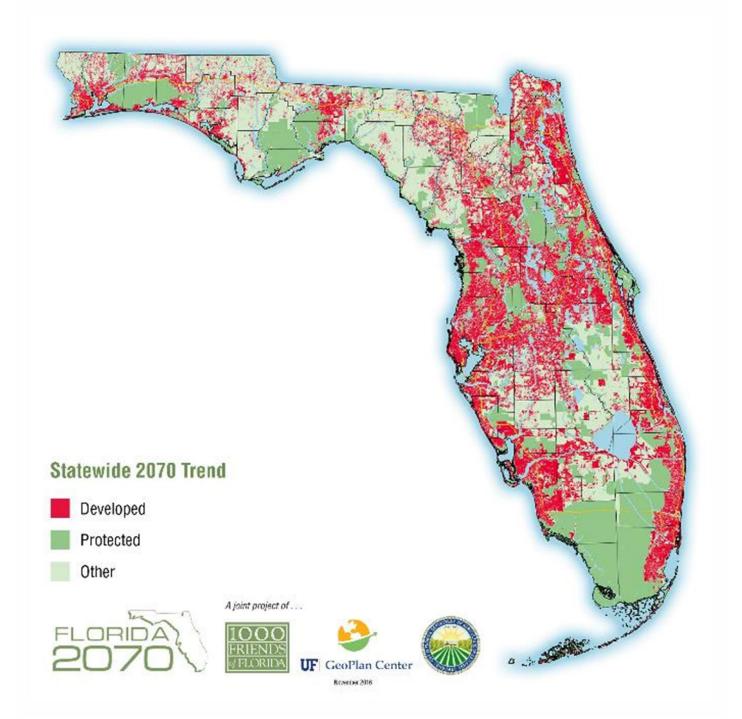
Existing Developed Lands and Permanent Conservation Lands



Florida 2060: A Research Project of 1000 Friends of Florida

2060 Developed Lands and Permanent Conservation Lands





2010 Baseline Statewide 2010 Baseline

Connecting, protecting and restoring the Corridor

How we grow makes all the difference.

33 million people by 2070







Networks of connected and protected areas are inherently more resilient than individual, isolated patches.



Our Mission

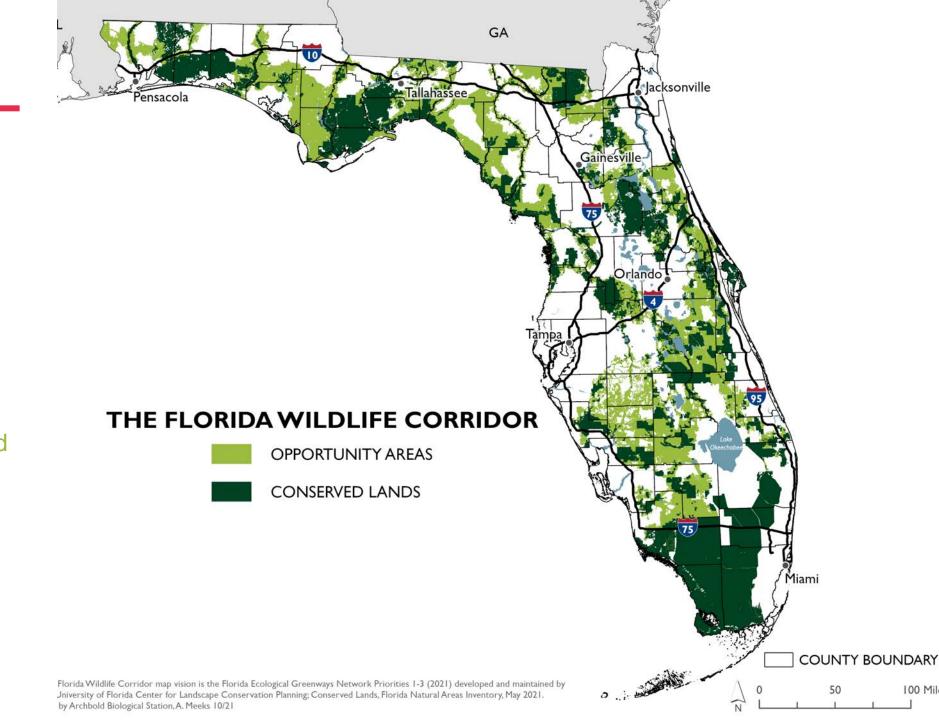
champion a collaborative campaign to permanently connect, protect and restore the Florida Wildlife Corridor



WHAT AND WHERE IS THE CORRIDOR?

18 million acres

10 million acres protected 8 million acres unprotected



ADVOCACY

Florida Wildlife Corridor Act

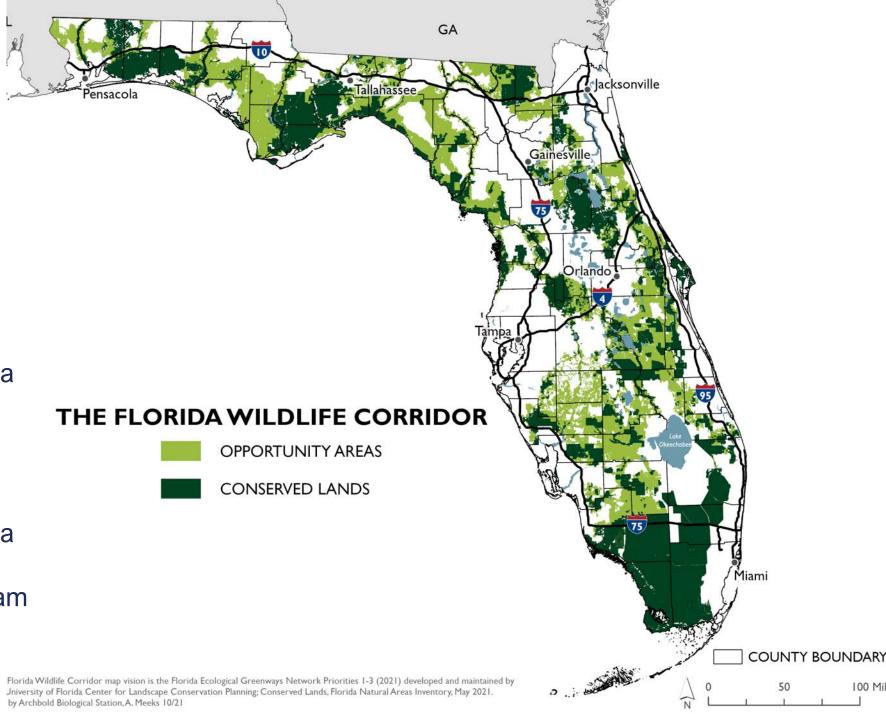
Provides a clear connected conservation vision for Florida

 Recognizes the Corridor geography in state statute + encourages its protection

FY22 Budget: \$100m for Florida Forever

 Additional \$300 million to protect wildlife corridors

FY23 Budget: \$100m for Florida Forever + \$300m for Rural & Family Lands Protection Program



WHAT'S NEXT?

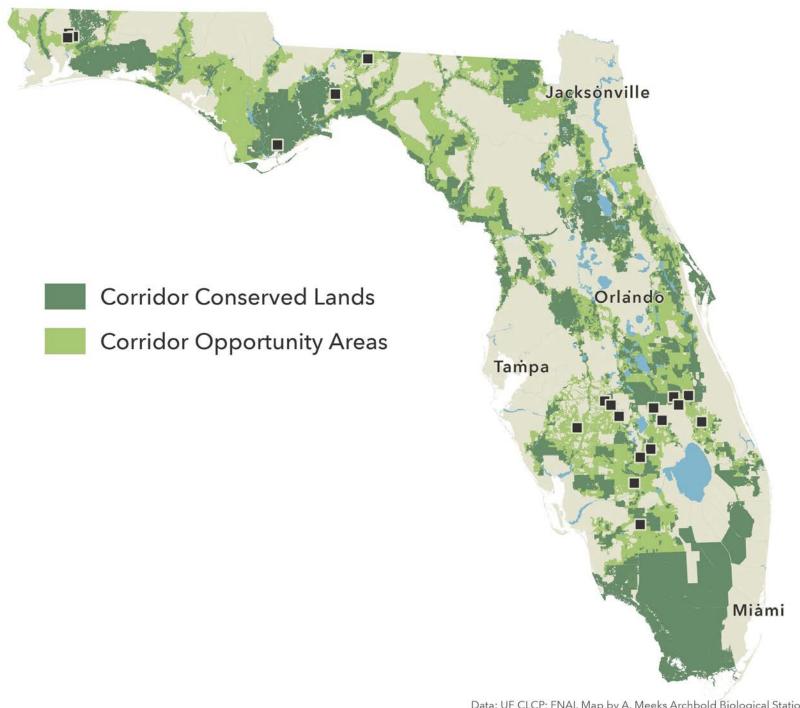
Implementation

- ➤ accelerating the pace of conservation statewide
- ➤ developing +mechanisms for protection (markets)

Increased reach

➤ inspiring a growing movement of supporters









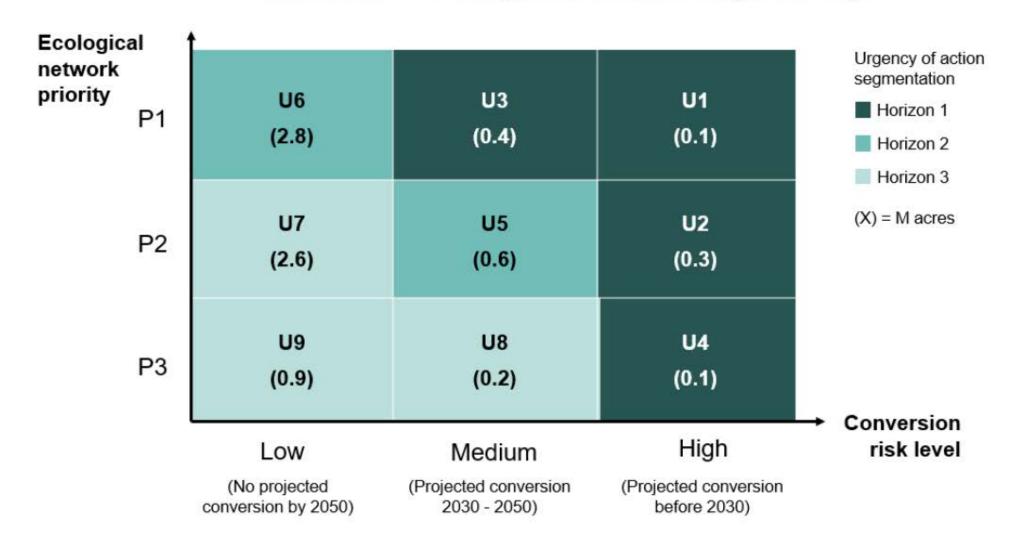


114,000 Jobs

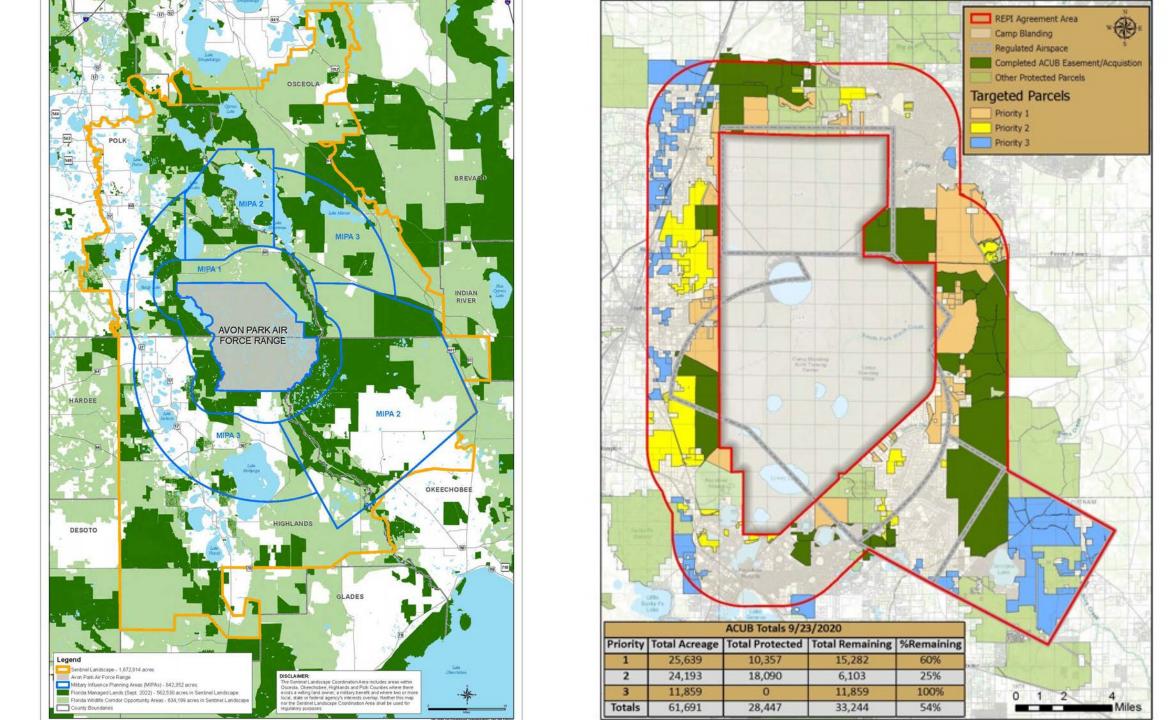
\$30 billion annual value

6x return on investment protecting Corridor

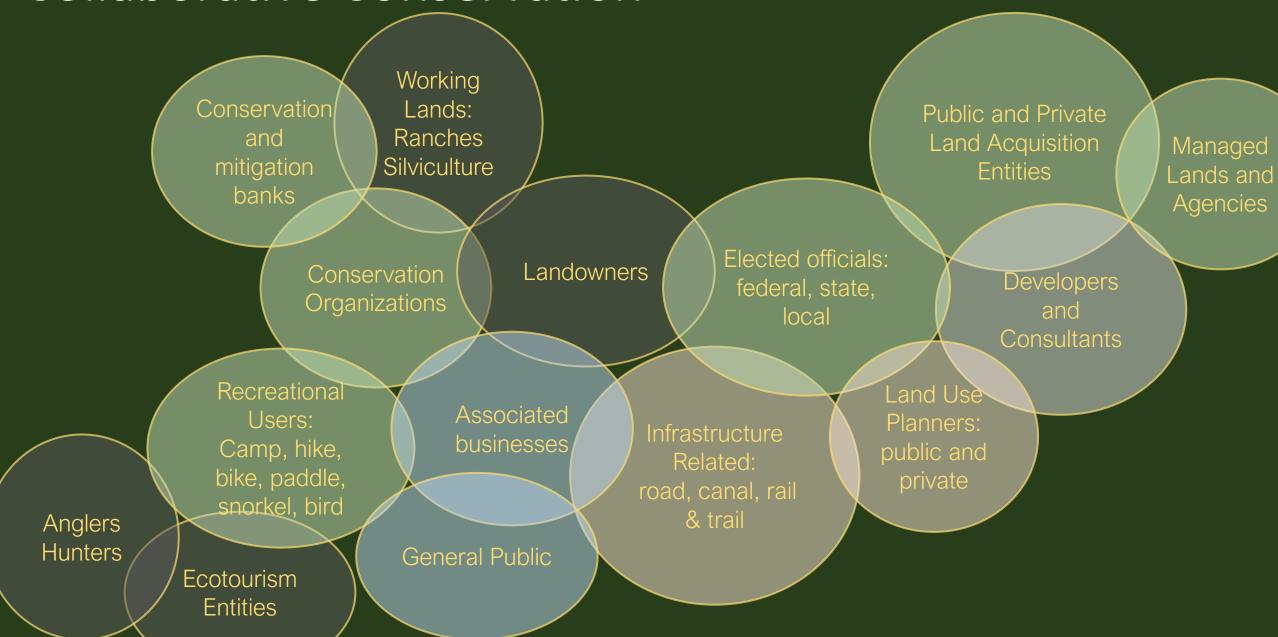
Tiering of the Corridor area by urgency levels considering conversion risk and ecological network priority



^{*} Connecting the Florida Wildlife Corridor – Economic Study 2021



Collaborative Conservation









Affordable Housing Solutions for Florida Military Installations



Florida Defense Support Task Force Enterprise Florida, Inc





FDSTF: Affordable Housing Solutions for Florida's Military Installations

February 16, 2023

Overview

- Introduction
- Background
- Current Housing Challenges
- Public Policy Solutions
- State-Supported Military Solutions
- Other Recent Initiatives



Introduction

Matrix Design Group

- Founded in 1999
- Employee-Owned
- Office in Niceville, FL

Our Team

- Nationally recognized military planners, engineers, & economic analysts
- Defense community consultants
- Housing experience





Background

- Goal: Provide creative and feasible solutions to the housing availability and affordability crisis facing Florida's defense communities
- Contributing factors
 - Lagging BAH
 - Hurricane Michael (and Ian and Nicole since)
 - Short-term rentals
 - Pandemic-fueled housing excitement
 - Low mortgage rates through 2021
 - Increased in-migration to the Sun Belt
 - Supply chain challenges





Current Housing Challenges

- Low-density residential districts permitting only detached single-family homes are the norm
- Local governments commonly prohibit the renting out of accessory dwelling units (ADUs)
 - Stringent regulations in Escambia County, as well as Tampa, Jacksonville
- Short-term rentals (STRs) represent an increasing share of the market
 - Pensacola: 135 active listings per 1,000 housing units in 2022 Q2
 - 2011 state law prevents local governments from prohibiting them
- Vacant or abandoned homes
 - 1.6 million empty homes statewide—more than any other state
 - Crestview (1,030 active-duty population): 9% vacancy rate
- Influence of "home rule" and political resistance





Public Policy Solutions

1. Reform zoning laws to allow for "gentle" density

 Offer property tax exemptions for small multifamily structures rented to low- or moderate-income families

2. Expand ADUs

3. Incentivize short-to-long-term rental conversion

4. Develop and execute vacant property plans

- Mandatory registration
- Establish and empower land banks
- Replace the traditional property tax with a split-rate tax
- Encourage community land trusts





State-Supported Military Solutions

- 5. Explore public-private partnerships to improve off-base housing Potential financing options include:
 - State Housing Initiatives Partnership
 - Community Development Block Grant
 - State Apartment Incentive Loan
 - Predevelopment Loan Program
- 6. Work with DoD to expand on-base privatized housing
 - Long waitlists are currently the norm, especially for E-1 through E-6 personnel with multiple dependents





Other Recent Initiatives

Florida Senate Bill 102 - Linked here

- Workforce Housing Strategy
- Increased funding for Homeownership for Hometown Heroes
- Allow businesses to substitute donations to Florida House Finance Corporation for tax payments
- Sales tax refund for affordable housing building materials

Miami – SOUTHCOM Privatized Housing

- Small Installation Privatization Initiative (SIPI)
- 139 Units

Permanent Housing Enabling Readiness and Quality of Life

Current Assessment:

- Junior/Mid-grade servicemembers are priced out of Doral and forced >= 20 miles
- . Doral Rent 15% more than broader two-county area that sets BAH rates
- All reasonable commutes include toll roads, \$500-\$1500 per year
- Servicemembers pay 3 months rent up front in local market
- Operational risks from inability to house key and essential personnel close to HQ
- Housing Market Analysis (HMA) validated need for 207 Family Housing Units and 132 Unaccompanied Housing Spaces

Concept: Provide military housing on FAA site in Doral through Army Residential Communities Initiative (RCI) Small Installation Privatization Initiative (SIPI) project that privatizes existing housing at seven other small installations to provide privatized housing in Miami up to our FY26 HRMA requirement.

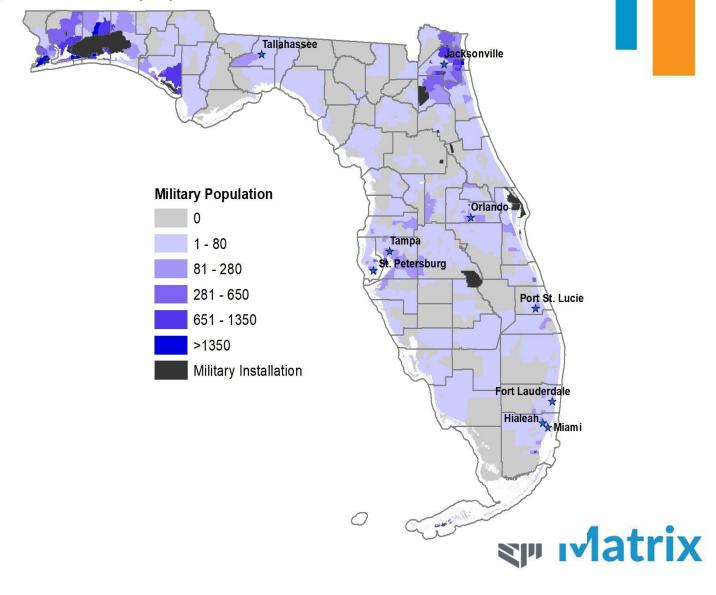




Appendix

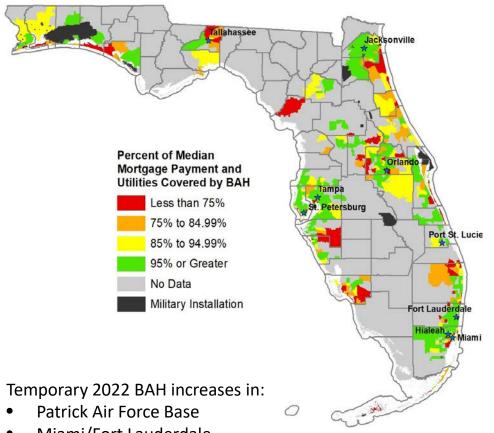
Active-duty population size by zip code

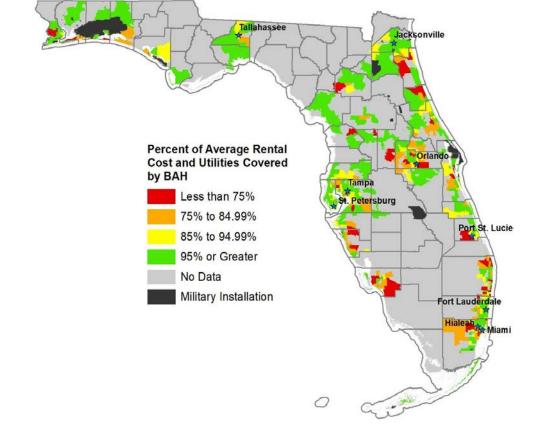
FLORIDA MILITARY FACTS **Total Statewide Economic Impact \$96.6 B** Percent of Florida Economy 8.5% Statewide Direct and Indirect Jobs 860,221 Total Acreage (all installations) 1 \$32.5 billion Military Personnel² 69,290 Civilian Personnel² Military Reserve² National Guard Full-time³ National Guard Traditional Guardsmen 3 Total Veterans Living in Florida 4 Total Military Retirees Living in Florida 5



Appendix (continued)

Zip-code level maps depicting share of housing costs covered by BAH rates for E-5s without dependents



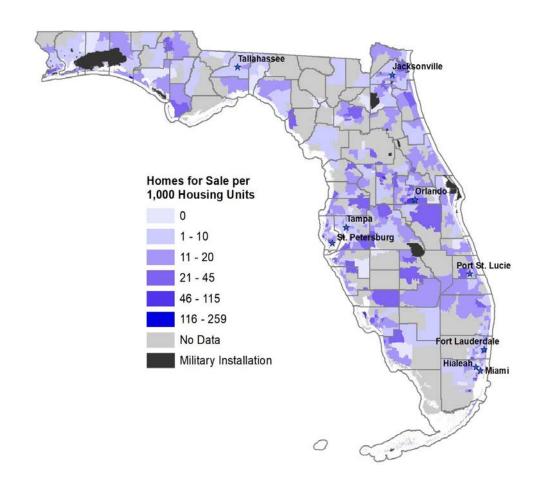


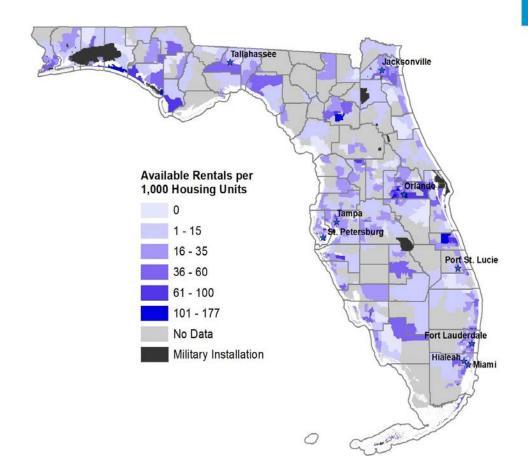
- Miami/Fort Lauderdale
- Orlando
- West Palm Beach
- Volusia County (Daytona Beach)
- Fort Myers Beach



Appendix (continued)

Zip-code level maps depicting relative numbers of rental and owner units on the market









Homestead Air Reserve Base Long-term Viability Support







Why GMCC – History



The Greater Miami Chamber of Commerce and our Military Affairs Committee have been instrumental in South Florida military support issues for decades; led

- Protection and conversion of Homestead Air Force Base to Homestead Air Reserve Base (HARB) post Hurricane Andrew
- Transfer of USSOUTHCOM Headquarters to Miami and creation of US Army Garrison-Miami
- Through our South Florida Progress Foundation, the creation of the South Florida Defense Alliance
- Annual support to numerous DoD and USCG support events and activities for our installations and service members





Challenges



- Internal USAF budget-driven discussions may preclude replacement of aging F16 Blk 30 aircraft at 482FW/HARB
- "Smaller" "single-mission" installation may appear as candidate for realignment/closure actions
- HARB previously cited by USAF as resilience-challenged location (along w/ virtually every USAF base in FL)
- Current decision process may lack comprehensive understanding of joint, inter-agency and regional integration at HARB
- USAF/DoD perceptions if Florida does not provide strong defense of its installations



Security Imperatives





HARB Provides Significant Joint & Interagency Support

Florida Air Guard alert – NOBLE EAGLE/NORAD support
USSOUTHCOM contingency plans support
SOCSOUTH Headquarters and operations
CBP aviation operations
USCG Maritime Safety and Security Teams base & training
Regional CBRNE capability
Florida National Guard

- Premier location for unencumbered access to broad airspace and training ranges
 - F35 Environmental Impact and Air Installation Compatible Use Zone studies complete; best "scores" in AFRC
 - o One of the lowest noise impact airfields in the country
 - Largest munitions storage facility in AFRC
 - o Multiple training ranges within minutes of take-off
 - o Access to developing Florida Advanced Training Range
 - o Established adjacent air refueling tracks
 - o Low costs and carbon footprint to train and maintain readiness
- Opportunity to support further mission expansion; for both day-to-day and contingencies
- Selected South Florida location for Florida National Guard expansion supporting TAG's state-wide rebalancing efforts
- Strong regional MIRR support

Economic Implications

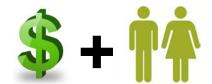




Annual South Dade Regional Impact

~\$400 Million

~5K Jobs



Plus



Florida National Guard Expansion



South Dade Aerospace Tech Hub (SDATH)

Approach



- Building local/regional/state coalition of support
- Engagement with key Florida federal delegation
- Immediate advocacy support contract critical to decision timelines
 - o Refine key objectives; understand aviation sequencing options
 - Provide insights and current "state-of-play"
 - o Support message development and refinement of pitch
 - o ID and engage with key stakeholders
 - o Provide expert advice and guidance
- Engage with key USAF/DoD leadership to influence before final decisions



























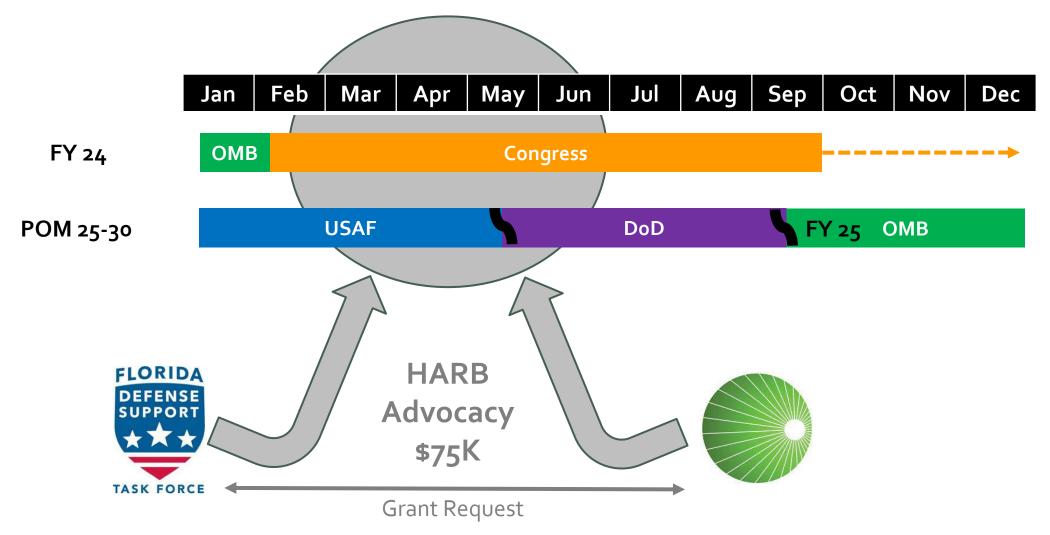




Request



• \$75K to support immediate advocacy support – spring 2023 key decision-space







Florida's Sunshine, Public Records, and Ethics Laws

February 16, 2023















Florida Defense Support Task Force

288.987 Florida Defense Support Task Force

(2) The mission of the Task Force is to make recommendations to preserve and protect military installations to support the state's position in research and development related to or arising out of military missions and contracting, and to improve the state's military-friendly environment for service members, military dependents, military retirees, and businesses that bring military and base-related jobs to the state.

Task Force

- ...required by section 288.987(7) to contract with the Department of Economic Opportunity, which subjects it to multiple requirements.
- ...has also contracted with EFI to provide ongoing administrative support.
- ...is subject to Florida's public records and sunshine laws and members of Task Force are subject to certain provisions of Florida's Code of Ethics.

Task Force

- Task Force (by letter) has assigned authority to EFI to...
 - take administrative and operational action in name of Task Force, and...
 - serve as Task Force's representative in direct interactions with the State, and...
 - make staffing and administrative decisions to support Task Force, and...
 - enter into and execute contracts on behalf of Task Force as its legal designee.

Public Records

Chapter 119, Florida Statutes.

- Definition of "public record" is very broad.
- Section 119.011(12), Fla. Stat.
 - all documents, papers, letters, maps, books, tapes, photographs, films, sound recordings, data processing software, or other material...
 - ...regardless of the physical form, characteristics, or means of transmission
 - ...made or received pursuant to law or ordinance or in connection with the transaction of official business by any agency.
 - Includes a private entity acting "on behalf of" public agency.

What is a Public Record?

Essentially <u>ANYTHING</u> that relates to the official business of FDSTF:

- Documents?
- Emails?
- Text Messages?
- Facebook Messages?

Yes! If it relates to the official business of FDSTF.

To determine if something is a <u>public record</u> look at the <u>content of record</u> <u>NOT</u> the <u>form of communication!</u>

Are there exemptions?

Yes, some public records are confidential and exempt from the public records laws.

 Example: Social Security #'s, certain home addresses, certain health information, etc.

For something to be exempt, there must be a specific exemption in law.

Exemptions Specific to FDSTF

- **F.S. 288.985(1)(a)** That portion of a record which relates to strengths and weaknesses of military installations or military missions in this state relative to the selection criteria for BRAC
- (b) That portion of a record which relates to strengths and weaknesses of military installations or military missions in <u>other states or territories</u> and the vulnerability of such installations or missions to BRAC ... and any agreements or proposals to relocate or realign military units and missions from other states or territories.
- (c) That portion of a record which relates to the state's strategy to retain its military bases during any BRAC process and any agreements or proposals to relocate or realign military units and missions.

Who can request?

- Anyone
- Requestor not required to show a "legitimate" or "noncommercial interest"
- Request cannot be denied because "overbroad." Agency may charge for copies and reasonable service charge.
- Requests do not have to be in writing.
 Requestor does not have to disclose identity or reason for requesting.

How long to keep records?

Retention period depends on the content of the record not the form of the communication.

Do NOT destroy or delete records without knowing the applicable retention period.

FDSTF retention schedule not the same as legislative retention schedule.

Public Records Tips

- Avoid using personal accounts for communication that are not backed up.
- Do not respond to a public records request on your own. Contact FDSTF staff.

Assume that every record you create or receive related to FDSTF is a public record.

Section 286.011, Florida Statutes.

Provides right of access to governmental proceedings of public boards or commissions at state and local levels.

Equally applicable to both elected and appointed boards.

Applies to virtually every public board in Florida with exception of Legislature and Judiciary.

Applies to Florida Defense Task Force including any subgroup

Three basic requirements:

- Meetings must be <u>open</u> to the public.
- Reasonable notice of meeting must be given.
- Written minutes of meetings must be taken and recorded.

Applies to <u>any</u> gathering of two or more members of the same board to discuss some matter which will <u>foreseeably</u> come before that board for action.

Board members may not engage in private discussions with each other about board business, either in person or by telephone, emailing, texting, or any other type of communication (Facebook, blogs, etc.)

Does not apply to staff as long as acting in traditional staff role.

Staff cannot be used as a liaison to communicate information from one board member to another.

Exemptions must be in law and must be specific to Sunshine Law (public records exemption does not close a meeting).

Sunshine Exemption FDSTF

Section 288.985(2), Florida Statutes

- (a) Meetings or portions of meetings of the FDSTF, or a workgroup of the TF, ... that are exempt under subsection (1) are exempt from s. <u>286.011</u> and s. 24(b), Art. I of the State Constitution.
- (b) Any records generated during those portions of meetings are exempt from s. <u>119.07(1)</u> and s. 24(a), Art. I of the State Constitution.

Ethics & Transparency

Members of the TF are subject to certain provisions of Florida's Code of Ethics in Chapter, 112, part III.

TF Members serving in other public positions (e.g. legislature or other public boards) may also be subject to additional ethics requirements and should consult with general counsel of the public entity.

Ethics

Prohibited from soliciting or accepting anything of value to influence official action;

Prohibited from doing business with one's agency;

Prohibited from accepting unauthorized compensation to influence vote or official action;

Ethics

Prohibited from misusing position to secure benefit for self or others;

Prohibited from entering into a conflicting employment or contractual relationship;

Prohibited from disclosing or using info for personal or business gain;

Ethics

Prohibited from serving simultaneously as officer and employee

Subject to nepotism prohibitions.

Voting

Legislative members serving on the Task

Force may participate in all Task Force
activities but may ONLY vote on matters that
are advisory. (Section 288.987(3)(d), Florida
Statutes).

Secretary of DEO, or his or her designee, serves as the ex officio, nonvoting executive director of the Task Force. (Section 288.987(5), Florida Statutes).

Voting Conflicts

May NOT vote on any matter that the Board member knows would inure to his or her special private gain or loss.

Must disclose the nature of conflict by filing FORM 8A (Memorandum of Voting Conflict for State Officers) with person taking meeting minutes.

Should file Form <u>before</u> vote, or if not possible, no later than 15 days after the vote.

Voting Conflicts

May vote on any matter that the Board member knows would inure to the special private gain or loss of:

- Any principal by whom the Board member is retained;
- Relative; or
- Business Associate.

Must disclose the nature of conflict by filing FORM 8A (Memorandum of Voting Conflict for State Officers) with person taking meeting minutes.

Should file Form <u>before</u> vote, or if not possible, no later than 15 days after the vote.

EthicsFDSTF Board Members

Board Members must file Financial Disclosure Form 1 (Statement of Financial Interests) if not already required to file Form 6 (Full Disclosure)

Filing Financial Disclosure makes Board members "Reporting Individuals" and also subject to:

- Gift ban (s. 112.3148, F.S.);
- Lobbying expenditure ban (s. 112.3215(6)(a), F.S.);
- Prohibition on gifts from political committees (s. 112.31485, F.S.); and
- Honorarium restrictions (s. 112.3149, F.S.).

- Reimbursement must be made according to section 112.061.
- Lodging expenses may not exceed \$150/day, excluding taxes, unless participating in a group rate or at least three rates were acquired.
- Staffing and administrative expenses of TF may not exceed \$250,000, including travel and per diem costs incurred by Task Force members not otherwise eligible for state reimbursement

- a. A list of TF members;
- b. TF contact information;
- c. A copy of the most recent TF Strategic Plan;
- d. TF public meeting notices as required by Florida law;
- e. A copy of TF's approved meeting dates for the current year...

(continued)

- f. Copies of TF's meeting agendas and minutes, and copies of any presentations made by TF or any of TF's guest speakers;
- g. TF's weekly updates;
- h. A copy of the TF's current fiscal year publiclyfunded budget, including revenue amounts and sources, as well as budgeted expenses...

(continued)

- i. TF's most recent Annual Report;
- j. TF's current five-year plan
- k. A public version of the TF's most recent independent Economic Impact Study;

(continued)

TASK FORCE shall ensure the following information is posted on its website for public viewing:

I. A copy of TF's most recent public briefing;

m. All TF's reports prepared pursuant to its agreement with DEO;

(continued)

- n. A list of all TF's grant recipients, organized by year;
- o. Copies of each active TF contract for services;
- p. Copies of any deliverables or reports due under each active TF contract for services that isn't exempt from public records disclosure pursuant to section 288.985, F.S.

(continued)

2. TASK FORCE's website must:

- a. be updated regularly based on the intervals of publication of the information being posted;
- b. use appropriate Internet security measures;
- c. allow users to navigate to related sites to view supporting details;
- d. enable viewers to email questions to TF; and
- e. make such questions and TF's responses publicly viewable.





Questions or Comments?















FLORIDA NATIONAL GUARD DEPARTMENT OF MILITARY AFFAIRS





FLNG Overview Brief 16 March 2023



Our Mission



Provide Highly Trained Units and Personnel to:

Support National Security Objectives
Respond to Emergencies and Disasters
Support Programs which add Value to Our State and Nation



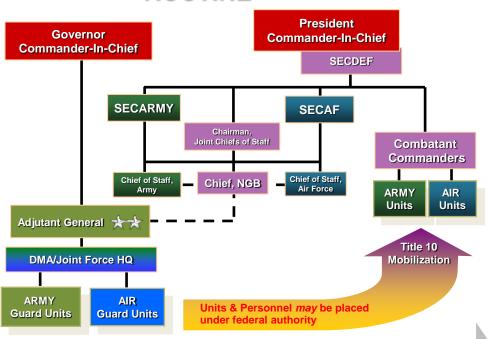




Chain of Command Routine and Emergent



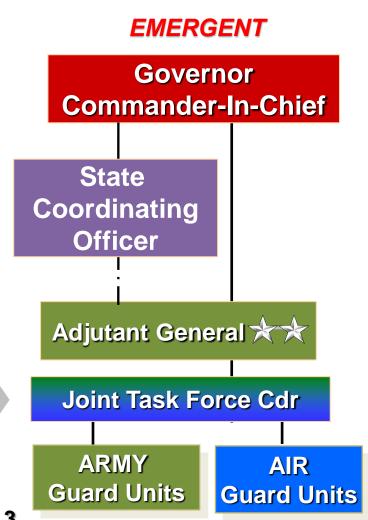
ROUTINE



FLORIDA STATUTE § 250.06:

As the Commander of the Guard, the Governor:

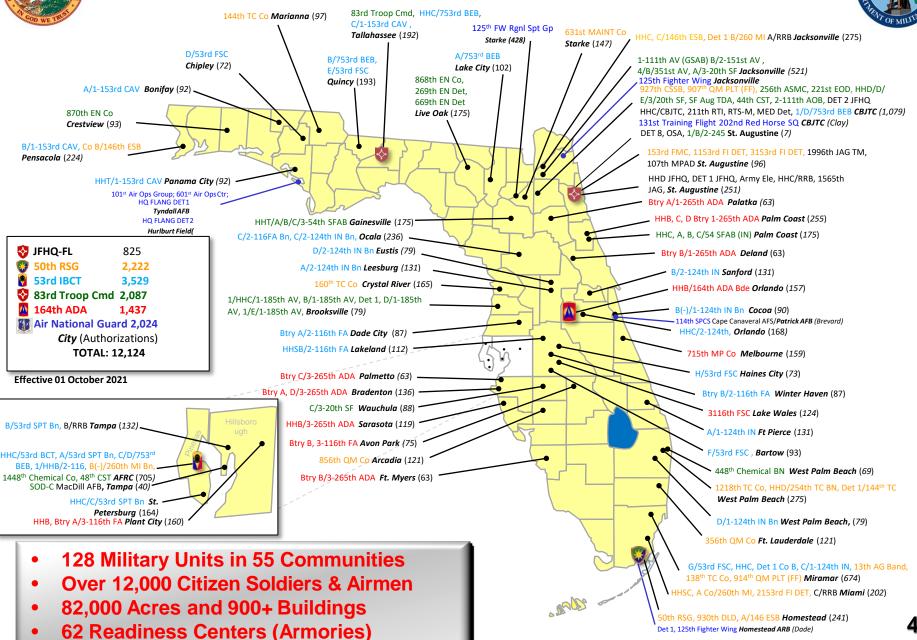
- ✓ Declares an emergency through an Executive Order
- ✓ Designates the "State Coordinating Officer"
- ✓ Orders the Guard to State Active Duty for emergency aid
- ✓ Initiates Emergency Management Assistance Compact with other Governors as required



THE STORY OF THE S

Florida National Guard Units





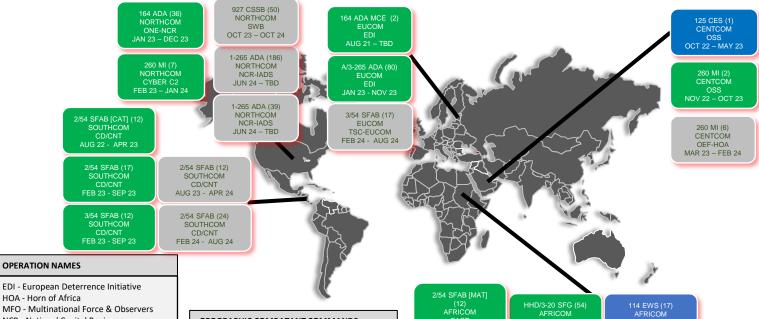


Florida National Guard Mobilization Status



FLORIDA NATIONAL GUARD DEPLOYMENTS	
Total Soldiers & Airmen Currently Deployed As Of 1 March 2023:	410
Total Soldiers & Airmen Scheduled for Deployment Through December 2023:	80

UNCLASSIFIED



EDI - European Deterrence Initiative

HOA - Horn of Africa

MFO - Multinational Force & Observers

NCR - National Capital Region

OAR - Operation Atlantic Resolve

OAW - Operation Allies Welcome

OEF - Operation Enduring Freedom

OES - Operation Enduring Sentinel

OFS - Operation Freedom Sentinel

OIR - Operation Inherent Resolve

ONE - Operation Noble Eagle

OSS - Operation Spartan Shield

SWB - Southwest Border

POTUS - Protection of the United States

GEOGRAPHIC COMBATANT COMMANDS

AFRICOM - Africa Command

CENTCOM - Central Command

EUCOM - European Command INDOPACOM - Indo-Pacific Command

NATO - North Atlantic Treaty Organization

NORTHCOM - Northern Command

SOUTHCOM - Southern Command SPACECOM - Space Command

UN - United Nations

AUG 22 - MAR 23

3/54 SFAB [MAT]

AFRICOM

AUG 22 - MAR 23

*Green-Current FLARNG mob

*Blue-Current FLANG mob

SEP 22 - MAY 23

SEP 22 - MAY 23

2/54 SFAB (12) FEB 23 - SEP 23

OEF-HOA FEB 23 - SEP 23

3/54 SFAB (12) AFRICOM OEF-HOA AUG 23 - APR 24

3/54 SFAB (12) AFRICOM OEF-HOA FEB 24 - AUG 24

Mobilized over 25,000 since September 11, 2001

*Gray-Future mob

UNCLASSIFIED



1992 To Present - 98 Activations - 953,307 Total Work-Days

TRANSPORTATION

2021 NGCS RESPONSES

2906 **SERVICE MEMBERS** 660,657 **TOTAL MAN DAYS**







The Florida National Guard (FLNG) transitions to

SMs are supporting demobilization and closeout

operations. All federal orders will end 30SEP2021.

recovery phase of COVID-19 Operations. Currently,

FLNG MISSION SUMMARY

FOOD BANK DISTRIBUTION **MISSIONS**



TESTING

5,668,553 **COMPLETED TESTS**



664

NURSING HOMES/ASSISTED LIVING FACILITIES/ VA **CENTERS TESTED**

16



Mobile Testing Bus/Aardvark Trailer Missions

LOGISTICS

80 SERVICE MEMBERS 28,943 **MAN DAYS**





2,614,578 **MILES DRIVEN**

33,321 PALLETS OF PPE





77 **SERVICE MEMBERS** 2145 **MAN DAYS**



MISSIONS

FIELD HOSPITAL

NGRF 2020-2021 1,400 **SERVICE MEMBERS** 5500 MAN DAYS

Hurricane IDA (LA)

SERVIĈE 16 **CIVILIANS MAN DAYS**

38 LNO **SUPPORT**



207 **FLNG**

Provider Support

VACCINATIONS

10 **VACCINATION SITES**

130 MOBILE TEAMS

1,534,044 X

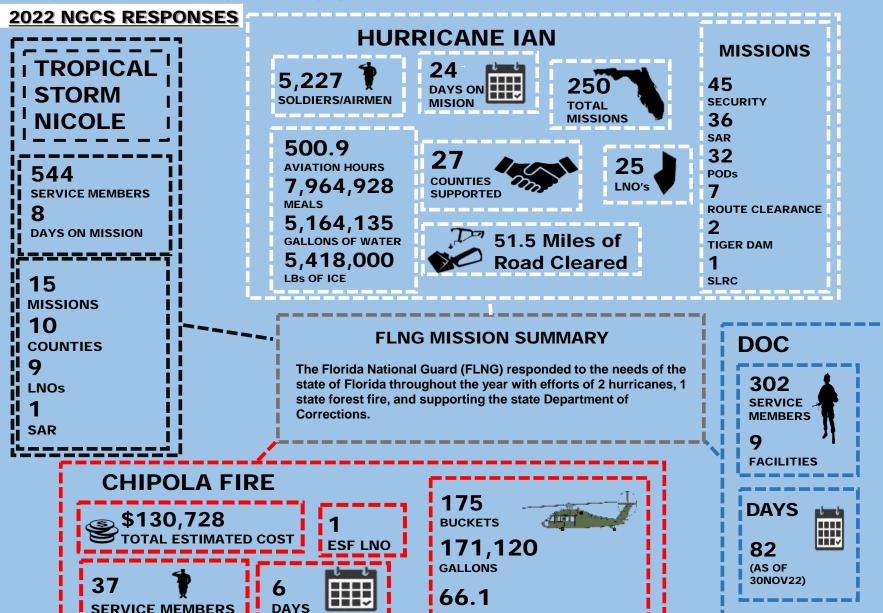
HURRICANE ELSA \$46,002 TOTAL ESTIMATED COST



SERVICE MEMBERS



As of 1 OCT 2021



FLIGHT HOURS

2023 NGCS RESPONSES



Migration Support



35 DAYS ON

521 TOTAL Sorties

1194.2 Flight Hours

OVER 600

Miles of Coastline **Patrolled**

67 CHUGS REPORTED 32 **RUSTICS REPORTED**

HAITIAN FREIGHTER 349 MIGRANTS REPORTED





\$5,855,059.10

FLNG MISSION SUMMARY

The Florida National Guard (FLNG) was tasked with providing aviation support to state law enforcement to detect and report migrants approaching the Florida coastline while continuing to support the Department of Corrections with personnel in critically low-manned facilities.

Department of Corrections

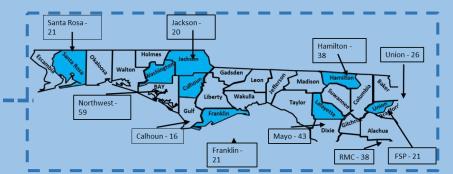


\$8,898,867 **TOTAL ESTIMATED COST** **Facilities**

300





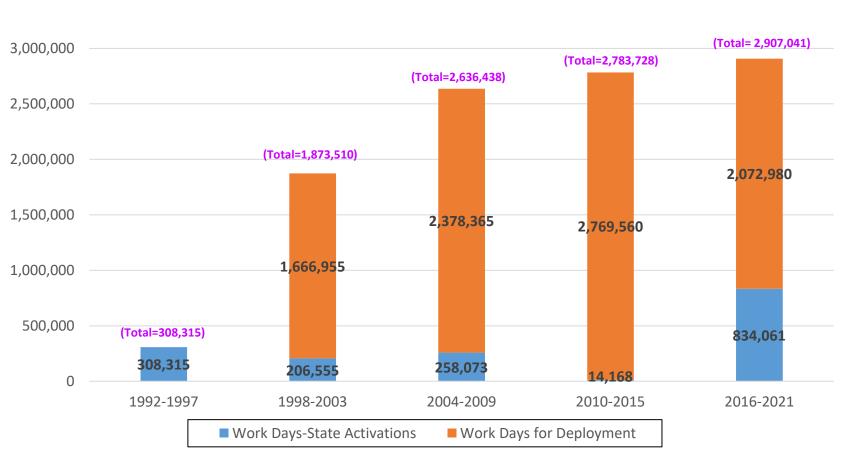




3,500,000

FLNG State and Federal Response # of Workdays





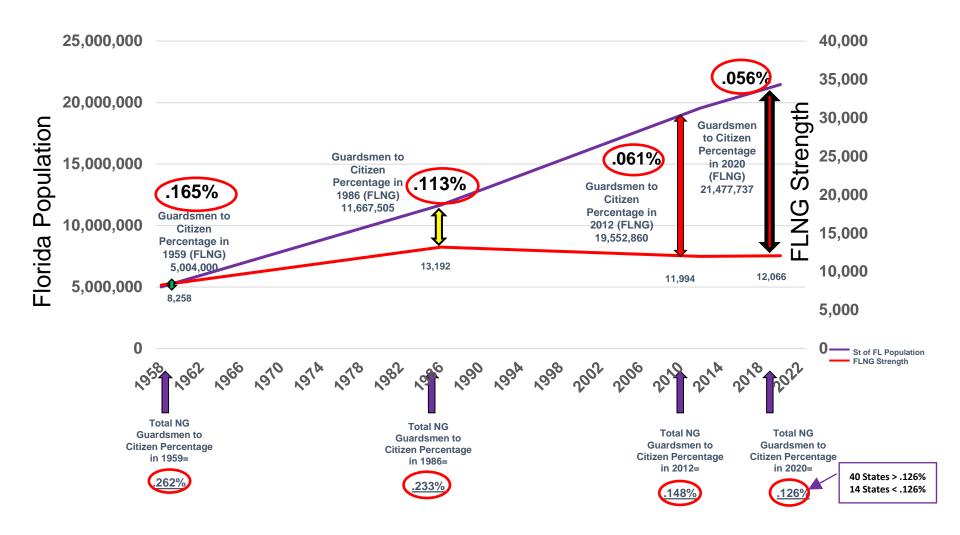
High Operational Tempo:

- <u>COVID:</u> > 2,900 Soldiers & Airmen activated; > 660k work days
- State Activations/Response: Since Andrew, over 90 activations; over 1.5 Million work days
- Federal Deployments: Over 25,000 Soldiers & Airmen deployed since 9/11



FLNG Strength vs. FL Population 1958 to 2020







FLARNG UNITS







FLNG – Federal Objectives (NDAA 2024)



Priority 1: Growing the FLNG

- As the 3rd most populous state, FLNG is ranked 53 out of 54 when comparing Guard personnel to citizen population.
- Florida's population will grow 5M over the next 10 years and FL is 4th most disaster-prone State in the Nation.
- The FLNG experiencing a sustained high OPTEMPO: over 25,000 deployed since 9/11; over 2M workdays supporting state disaster response.
- Growing personnel and facilities is an investment in our citizens' security.

Priority 2: Establish the Space National Guard (SNG)

- Active-duty space units were moved out of the Air Force and placed in the new Space Force upon its establishment in 2019; however, space units in the Air National Guard remain orphaned in an Air Force that is no longer charged with the space mission.
- SNG provides USSF an optimized, properly aligned, Combat Reserve Component.
- Zero New Cost via ANG→SNG account transfers. No unit, GO/personnel, facility growth to establish SNG; same lean overhead.
- The ANG has been conducting Space missions for 25 yrs. <u>FY23 SNG stand-up</u> ensures no space warfight interruption for 14 current Space units.

Priority 3: Homestead Readiness Center

(MILCON - \$35M)

- Focusing strategic objectives around increasing force structure to meet the rapid growth of Florida's population and moving force structure to the south Florida area where Florida's attractive recruiting demographics are located.
- Capitalize on the strategic location in South Florida that will enable more efficient and effective response to the State during natural disasters in the Southeast and Southwest portions of Florida.
- Better supports equipment needs and the Soldiers of the 50th RSG and A/146th ESB with a combined strength of 228 Soldiers, with 17 full-time employees.

Priority 4: Miramar Vehicle Maintenance Shop

(MILCON - \$11.7M)

- The current regional vehicle maintenance shop is over 30 years old, functionally obsolete, does not comply with OSHA & ADA, and is colocated with a Readiness Center in metro Miami on a 5 acre lot that does not allow for adequate space to maintain large military vehicles.
- The facility will support 22 mechanics servicing 8 FLARNG units with 778 Soldiers, and 447 pieces of wheeled equipment.
- The proposed facility provides approximately 24,988 square feet of vehicle maintenance space, a 2,277 square foot unheated storage building, a 660 square foot flammable materials facility, a 440 square foot bulk POL building, and a 330 square foot controlled waste handling building. The project totals 28,695 square feet.

Priority 5: Camp Blanding Joint Training Center to a Level II Installation

- CBJTC is a premiere training area supporting all services, federal agencies as well as state and local municipalities.
- Multiple construction projects required to upgrade and construct CBJTC facilities in order to meet the requirements as a Level II installation.
- CBJTC is a contingency Mobilization Force generation Installation (MFGI) but lacks some of the required facilities to fulfill the requirements
 of a contingency MFGI.

• Vastly improves training areas, ranges and ability to support our larger formations for both training and state / federal mobilizations.



FLNG's #1 Congressional Priority Grow the FLNG



- As the 3rd most populous state, the FLNG is ranked 53 out of 54 in Guardsmen-to-Citizen Ratio
 - In the past 30 years, the FL population <u>doubled</u> while FLNG force structure <u>declined</u>
 - Florida's population will **grow by 5 Million people this decade** exacerbating current shortcomings
- Florida is geographically large, 850-mile end to end with 1,350 miles of coastline
 - Over **17 million** FL residents currently live within 30 miles of a coast
- FL is disaster prone
 - 5th most FEMA declared disasters of all states in last 70 years
 - 3rd most damage from natural disasters per household of all states in the Nation
- Emergency Management Assistance Compacts (EMACs) required for nearly every domestic response
 - Hurricane Irma (2017) required over 2.200 Soldiers from 22 states
 - EMACs may not be supported during a pandemic response or other national emergencies
- If force structure were "proportional," the FLNG would be <u>>25.000 Guardsmen. rather than ~12.000</u>
- Current growth is not fast or big enough to meet the demand/requirements
- High Domestic Operational Tempo:
 - o **COVID:** > 2,900 Soldiers & Airmen activated; > 650k man days
 - Hurricanes: In last 29 years, 50 activations; over 750K man days with 66K personnel



FLNG's #2 Congressional Priority Space National Guard



- National Guard is already in the space business and has been for over 27 years.
 - Active-duty space units were moved out of the Air Force and placed in the new Space Force
 upon its establishment in 2019; however, space units in the Air National Guard remain
 orphaned in an Air Force that is no longer charged with the space mission.
- National Guard's business model is tried and true.
 - SNG provides USSF an optimized, properly aligned, Combat Reserve Component
- Zero New Cost via ANG→SNG account transfers. No unit, GO/personnel, facility growth to establish SNG; same lean overhead
- The ANG has been conducting Space missions for 28 yrs. <u>FY23 SNG stand-up</u> ensures no space warfight interruption for 14 current Space units.
 - Florida Air National Guard's very own 114th Electronic Warfare Company recently deployed overseas to conduct electromagnetic attack-and-support operations. This remarkable unit has been executing a space mission since 2000 and is charged with delivering offensive and defensive counter-space and space situational awareness to rapidly achieve flexible and versatile effects in support of global and theatre campaigns. Armed with the first new, offensive weapon in the U.S. Space Force and deployable within 72 hours to engage in combat operations, 114th SPCS is on the leading edge of space warfare.



FLNG's #3 Congressional Priority Readiness Centers



- The purpose of this project is to capitalize on the strategic location in South Florida that will enable more efficient and effective response to the State during natural disasters in the Southeast and Southwest portions of Florida.
 - South Florida demographics fully support the recruiting and retention needs of the Florida National Guard enabling recruitment into currently vacant positions and future positions that the organization is pursuing for planned growth.
 - The potential growth of the Florida National Guard provides increased capabilities to both state and federal missions.
- The project (PN 120306) is programmed at a total cost of \$34,859,000. The federal share for this project is estimated at \$27,629,000 and the estimated State share is \$6,230,000.
 - The facility will include 59,147 square feet of readiness center space and 27,372 square feet of other required support space and facilities.
 - The project totals 86,519 square feet. Additionally, the project will provide adequate privately owned vehicle parking and military owned vehicle parking for 96 wheeled vehicles and 103 trailers.
- The units are currently operating out of 54,753 square feet which is 31,766 square feet less than they are authorized severely impacting their ability to train.
- The programmed project will provide the necessary administrative, training and storage areas required to achieve and sustain proficiency in required training tasks and generate the forces required to fulfill assigned missions.
 - If the project is not approved, the units' ability to meet their readiness, training objectives, recruiting and retention requirements will continue to be adversely affected if the personnel are not provided with adequate facilities.



FLNG's #4 Congressional Priority Field Maintenance Shops



- Our equipment is larger, more numerous and more complex than ever before
- The current regional vehicle maintenance shop is over 30 years old and functionally obsolete.
 - It does not comply with OSHA & ADA
 - It's co-located with a Readiness Center in metro Miami on a 5 acre lot that does not allow for adequate space to maintain large military vehicles
- The facility will support 22 mechanics servicing 8 FLARNG units with 778 Soldiers, and 447 pieces of wheeled equipment
- The proposed facility provides approximately 24,988 square feet of vehicle maintenance space, a 2,277 square foot unheated storage building, a 660 square foot flammable materials facility, a 440 square foot bulk POL building, and a 330 square foot controlled waste handling building. The project totals 28,695 square feet.



- CBJTC is a contingency Mobilization Force generation Installation (MFGI) but lacks some of the required facilities to fulfill the requirements of a contingency MFGI.
 - Multipurpose Machine Gun (MPMG) \$11 million based off 2021 Charrette. MPMG construction project was selected as a FY24 Project through the Chief of Staff of the Army Unfunded Priority List process. Request 2024 construction funding.
 - Multipurpose Training Range (MPTR) Previously the Scout RECCE range which is being removed from DA inventory. The MPTR with an Infantry Platoon Battle Course (IPBC) overlay will be inserted into FY26 as a replacement to the Scout RECCE. DA will conduct a planning charette for the MPTR and IPBC overlay in early April. Request 35% design funding FY24, ~\$6 million.
 - CBJTC Readiness Center has been picked up as a FY27 project, ~\$30Million
- It is critical that these facilities get constructed to support readiness training and support operations at the Infantry Brigade Combat Team level to minimize the requirements to travel to other State's to accomplish training.



Growing Armories



Panama City Readiness Center (Act of Nature) \$22 Million (Plus \$6 Million from State)

Zephyrhills Readiness Center
\$22 Million (MILCON Tails \$1.5
Million)

Immokalee Readiness Center
\$22 Million (MILCON Tails \$1.5

\$30 Million (FY27 project)

Special Forces Readiness Center

CBJTC Readiness Center

\$28 Million (Potential FY28 project)

Gainesville Readiness Center \$22 Million (FY23 project)

Malabar Annex – Readiness Center \$16 Million

HARB Readiness Center \$30 Million

Given our FSA, we require 2.9M SF in Readiness Centers; we currently have 1.5M SF (deficit of 1.4M SF) which equals 10 armories.

Blue = State funded

Million)



Congressional Ask FAA & Fair Market Value



Eugene M. Bass Armory Issue

<u>Issue:</u> The Eugene M. Bass Armory falls under the FAA guidance for assessing property on Airports at Fair Market Value. It is expected the assessment will be a significant cost to the FLNG

Issue/Armory Details

 Location: 649 Cessna Street, Bartow, FL 33830 (Bartow Regional Airport) – Polk County

• Construction Date: 11 July 1974

• Square Feet: 17,136

Current Unit: Foxtrot Co, 53rd BSB (2-116th FA)

Landowner: City

• Acres: 10

FAA Rule: Memorandum: August 27, 2018;
 Compliance Guidance Letter 2018-3,
 Appraisal Standards for the Sale and Disposal of Federally Obligated Airport Property

Timeline

- Extension Request: 04 February 2022
- Extension Request Denial: 08 March 2022
- Short-term Extension Request: 10 May 2022-1 July 2023
- Lease Expiration: 15 May 2022







Right, Ready, Relevant Since 1565

QUESTIONS?





Your Pursuit • Our Power

Mission and Programs

Purpose |

Veterans Florida is a non-profit corporation created by the State of Florida in 2014 to help veterans fully transition to civilian life in the Sunshine State and to promote Florida, the most veteran-friendly state in the country, as the best place to reside upon leaving the military.



Administration

The Board of Directors, comprised of members appointed, three each, by the Governor, Senate President, and House Speaker, administers the Florida Veterans Employment and Training Services (VETS) Program under the Florida Department of Veterans Affairs.

Operational and VETS Program funding provided under state's Health and Human Services Budget.

Board of Directors



Col (Ret) USMC, Rocky McPherson, Chair



COL (Ret) USA, Robert Kirila, Vice Chair



1SG (Ret) USA, Tom Rice, Treasurer



Alan Suskey, USA, Secretary



CPT (Ret) USN, Jeff Cathey



Angela Drzewiecki



MCPO (Ret) USN, Mark Harden



BG (Ret) USA, Jerry Neff



Lynda Weatherman

Staff Organizational Chart Mar 2023



Government Relations

2023-24 Legislative Budget Request Submitted

Funding Area	Request	Impact
VETS Program	\$2,000,000 Nonrecurring	Maintain

Public Records exemption

VETS Program

Veterans Employment and Training Services, Section 295.22, Florida Statutes veteransflorida.org

Services
Marketing with VISIT Florida
Career Services
Workforce Recruiting
Workforce Training Grant
Entrepreneurship Program
Florida SkillBridge Initiative

VETS Program

	2022-23
Partner Agreements	133
New Veteran Leads	1,759
Active Qualified Veterans	3,601
Veterans Training/Trained	1194
Agriculture (USDA/NIFA)	13
Marketing Target Audience	400,000

Marketing

Major Sponsorships								
Event	Where	When						
Sun n' Fun Aerospace Expo	Lakeland	Mar 28 - Apr 2, 2023						
National Salute to America's Heroes	Miami Beach	May 27-28, 2023						
Gulf Coast Jam	Panama City Beach	June 1-4, 2023						
Veterans Florida Expo	Tampa	June 9-10, 2023						

Entrepreneur

FY 2022-23 Partners

Partner	Location	Startup	Growth	Workshops	Network
Action Zone, Inc.	Tampa	3	2	4	4
Florida Association of Veteran Owned Businesses	Statewide			18	
Florida Atlantic University	Boca Raton	2	1	4	4
Florida Gulf Coast University	Fort Myers	2	1	17	4
SWFL Inc	Bonita Springs			10	4
University of North Florida	Jacksonville	1		4	
Veterans Entrepreneurship Initiative	Orlando	3	2	7	4

Agriculture FY 2022-23 USDA/NIFA Partners

Research and Education Center	Location	Research and Education Center	Location
Fort Lauderdale REC	Davie	North Florida REC - Suwannee Valley	Live Oak
Gulf Coast REC	Wimauma	Range Cattle REC	Ona
Hastings REC (NEW)	Hastings	Southwest Florida REC	Immokalee
Honey Bee Ext Lab (NEW)	Gainesville	Tropical REC	Homestead
Indian River REC	Ft Pierce	Tropical Aquaculture Lab	Ruskin
Mid-Florida REC	Apopka	West Florida REC	Milton

SkillBridge

Program

- Servicemembers with less than 180 days until separation or retirement
- Gain workforce training at an employer or industry partner under an apprenticeship or internship in lieu of their military duties
- Retain their full DoD pay and benefits.
- Commander approval

Available to transitioning service members

Industries

 Aerospace, logistics, law enforcement, agriculture, etc.

> 2023 NDAA codified DOD SkillBridge into law and is expected to receive dedicated funding in the future

veteransflorida.org

SkillBridge

Placements									
Since 2	2020-21	From Outs	side Florida	HOR Outside Florida					
98		70	0%	47%					
Mid-Florida Research and Education Center	S&B Metal Products of South Florida	ARES Technical Services	Fort Lauderdale Research and Education Center	HSU Educational Foundation	Renegade Air Group				
Range Cattle Research and Education Center	Florida Department of Economic Opportunity		Maritech Machine	HT Hackney	Emerald Coast Wildlife Refuge				
Vets2PM	Piper Aircraft, Inc	Randy Wise Homes	Legends Airways	Gulf Coast State College	Santa Rosa Sheriff's Office				
Florida Highway Patrol	Southwest Florida Research and Education Center	Pensacola Police Department	North Florida Research and Education Center	Boca Aircraft Maintenance, LLC	Indian River Research and Education Center				
Vineyards Country Club	West Florida Research and Education Center				VETSFL				

Mission and Programs



veteransflorida.org

Copies of these slides and additional materials may be requested and obtained by emailing marino@veteransflorida.org





Florida Defense Support Task Force

FDSTF Grant Program April 20, 2023















FDSTF Grant Program

- The FDSTF Grant Program began in 2013
- From FY13 to FY23 the program has awarded @ \$18.5m in Grants
- As of FY16, the Task Force is not authorized to carrying over unused funds – grant funding limited to annual appropriation for FY17 & beyond
- Task Force voted in September 2016 to align the timing of the grant program to the Florida Legislative budget cycle going forward

FDSTF Grant Program

- Supports military communities by funding selected projects that:
 - Directly support preserving, protecting or enhancing the installation
 - Increase the military value of the installation
- Will use funds authorized by the legislature in current session
 - Contracts will be awarded using funds for the next Fiscal Year
- May inform the Legislative Budget Request (LBR) process
- Maximizes opportunity to get impactful projects

Annual Program Flow

- Aug Application window opens for following Fiscal Year funding
 - Staff reviews applications and develops recommendations
- Sep Task Force (TF) Mtg: TF reviews potential projects (no decision)
 - Staff uses review to estimate grant funding levels and develop budget request for following Fiscal Year
 - TF discusses submitted applications to inform LBR process
- Apr TF Mtg: TF decides which applicants to invite to provide in-person project presentations
 - TF approves budget for the next FY
- May TF Mtg:
 - TF hears presentations on selected proposals and votes on grant awards for winning projects
- Jun/Jul Governor announces winning grant recipients
- Jul Execute contracts announced in June using current Fiscal Year

TF Staff accepts Out-of-Cycle Applications throughout year for emergency and emerging needs

Annual Program Flow

			Annı	ual Gran	t Fundir	ng Flow	Diagram		•	`		
Task	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Execute Contracts	Staff (This FY)											
Manage Contracts					Sta	ff (all ope	en contra	cts)	_			
Grant Application Window		Staff (Next FY)										
Review Applications - Estimate LBR Ask			TF Action (Next FY)									
Develop TF Budget			Sta	aff								
Select Projects for In- Person Presentations										TF Action (Next FY)		
Notify Selected Projects for In-Person Presentations										Staff (Next FY)		
Approve TF Budget										TF Action		
In-person Grant Presentations											TF Action (Next FY)	
Governor Announces Winners												Staff (Next FY)





Florida Defense Support Task Force

Discussion?

















Florida Defense Support Task Force

FY 2023 - 2024 GRANT FUNDING APPLICATION

Presented by Josh Cockrell, Executive Director **Clay County Development Authority**

About Camp Blanding Joint Training Center

Camp Blanding Joint Training Center (CBJTC) is a critically vital training center that annually trains over 350,000 Florida National Guard troops, active duty military, law enforcement officers, Department of Homeland Security agents, Drug Enforcement Agents, Florida Department of Law Enforcement agents, various Florida counties' sheriff's department personnel and first responders, and others.

The development pressure from the surrounding area has prompted CBJTC to make the areas along the border of the installation the highest priority for protection from development encroachment.

This project will purchase fee and/or less than fee interest in property(ies) within the approved Army Compatible Use Buffer (ACUB) around CBJTC by using matching funds from the FDSTF and the DoD REPI Program.

The property(ies) will be located within either Bradford County or Clay County.

The buffer will serve as protection from future development-related land-use impacts to the military installation as well as establishing an expanded buffer around CBJTC that will prevents strained relations with nearby residents thus improving the military-friendly environment in Clay County.

The buffer would also facilitate training capability growth within the current boundaries of the installation, as well as protect and safeguard current and future training operations at Camp Blanding.

An additional benefit provided by a permanent buffer area adjacent to the border of the installation is that it protects natural wetlands and state-listed flora and fauna from development activities.

This project will leverage approximately \$1,500,000 of Readiness and Environmental Protection Integration (DoD-REPI) funds. The specifics of the sale including the appraisals and contract negotiations will be handled by ACUB partner(s).

ACUB partner(s) will utilize the parcel(s) for flood mitigation and water recharge issues in this region. For properties located in Bradford County, there will be an annual payment in lieu of taxes.

The property(ies) are not included in the current Florida Forever Program and would be acquired by ACUB partner(s) as project lands or other protected lands.

Alignment With FDSTF's Strategic Plan

This project directly supports the FDSTF mission, as described in F.S. 288.987, by preserving, protecting, and enhancing Florida's military installations and to improve the states military friendly environment for service members that bring military and base related jobs to the state.

This project aligns with the FDSTF's guiding principles (goals) as identified in the FDSTF Strategic Plan, to identify, prioritize and address all current or potential base and range encroachment issues, including, but not limited to airspace, environmental, energy, frequency spectrum, and land and water use compatibility.

Alignment With FDSTF's Strategic Plan

Finally, the FDSTF Strategic Plan long-term strategic goals for all military installations are addressed by:

- Identifying encroachment challenges and working with state and local partners to reduce or eliminate encroachment affecting installations, ranges and flight corridors.
- Promoting land use agreements to increase or sustain ranges and their associated or escalating requirements and capabilities. This includes purchase of conservation or non-conservation land or development rights / restrictive easements that limit incompatible use.

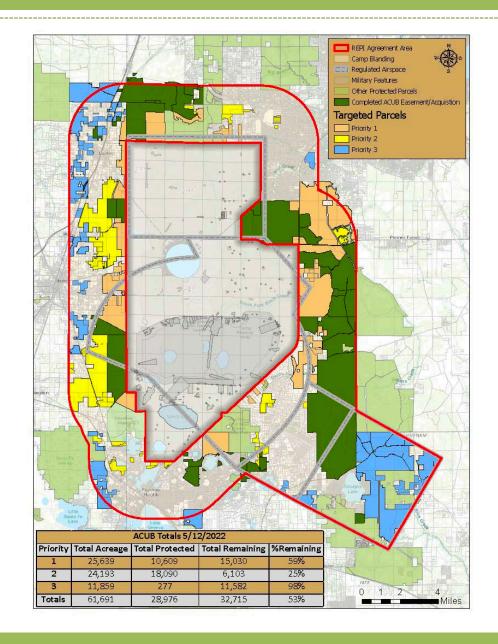


SUMMARY

Installation
encroachment
acquisition of fee
and/or less than fee
interest in
property(ies) within
ACUB around
CBJTC.

\$500,000 of FDSTF Grant funding will be leveraged with approximately \$1,500,000 of REPI funds, enabling the appraisal(s), surveying(s), and acquisition(s).

TOTAL: \$2,000,000







125FW Construction Gate Proposal

Lt. Col. Jonathan "Flood" Kassebaum 125th FW F-35 Conversion Director



Base Overview





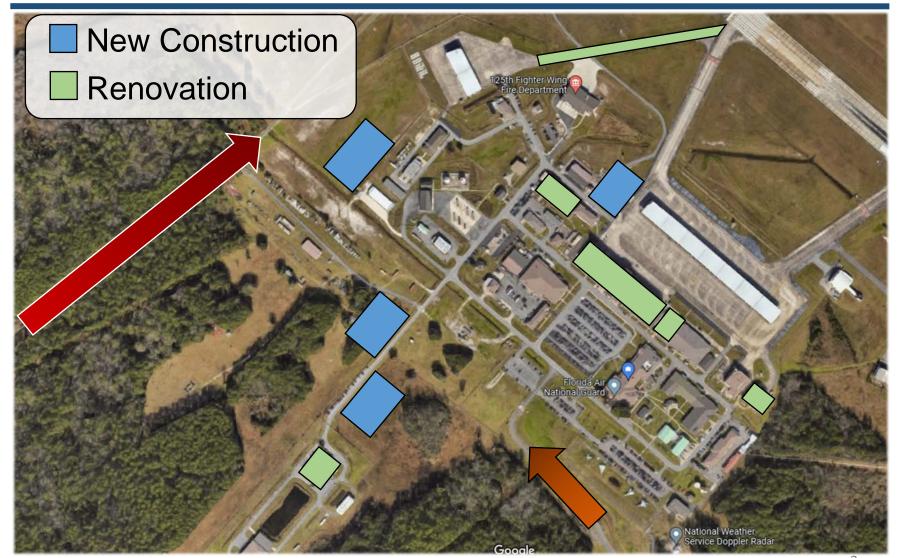




F-35 Construction









Proposal





Proposal: Improve Existing JAA Access Road

- Alleviate Gate Congestion
 - Security Risk
- Reduce Impact to Operations
 - 4+ Year Construction Period
 - Fully Operational During Construction
- Streamline Construction Access
 - Expedited Entry

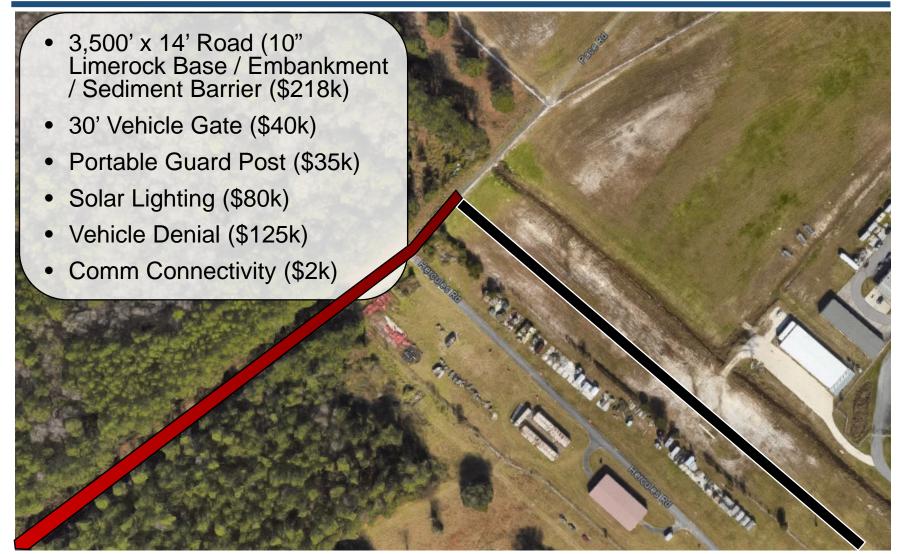




Cost Breakdown (\$500,000)





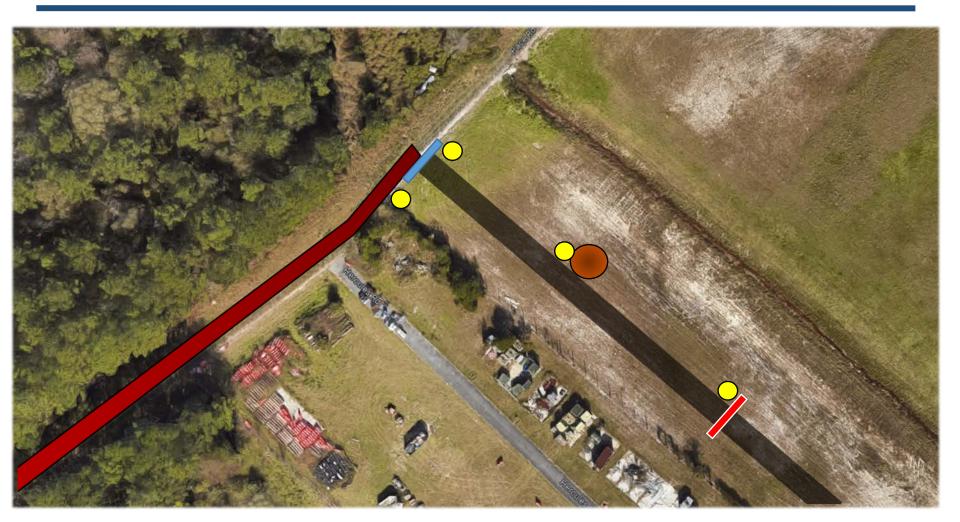




Planned Entrance







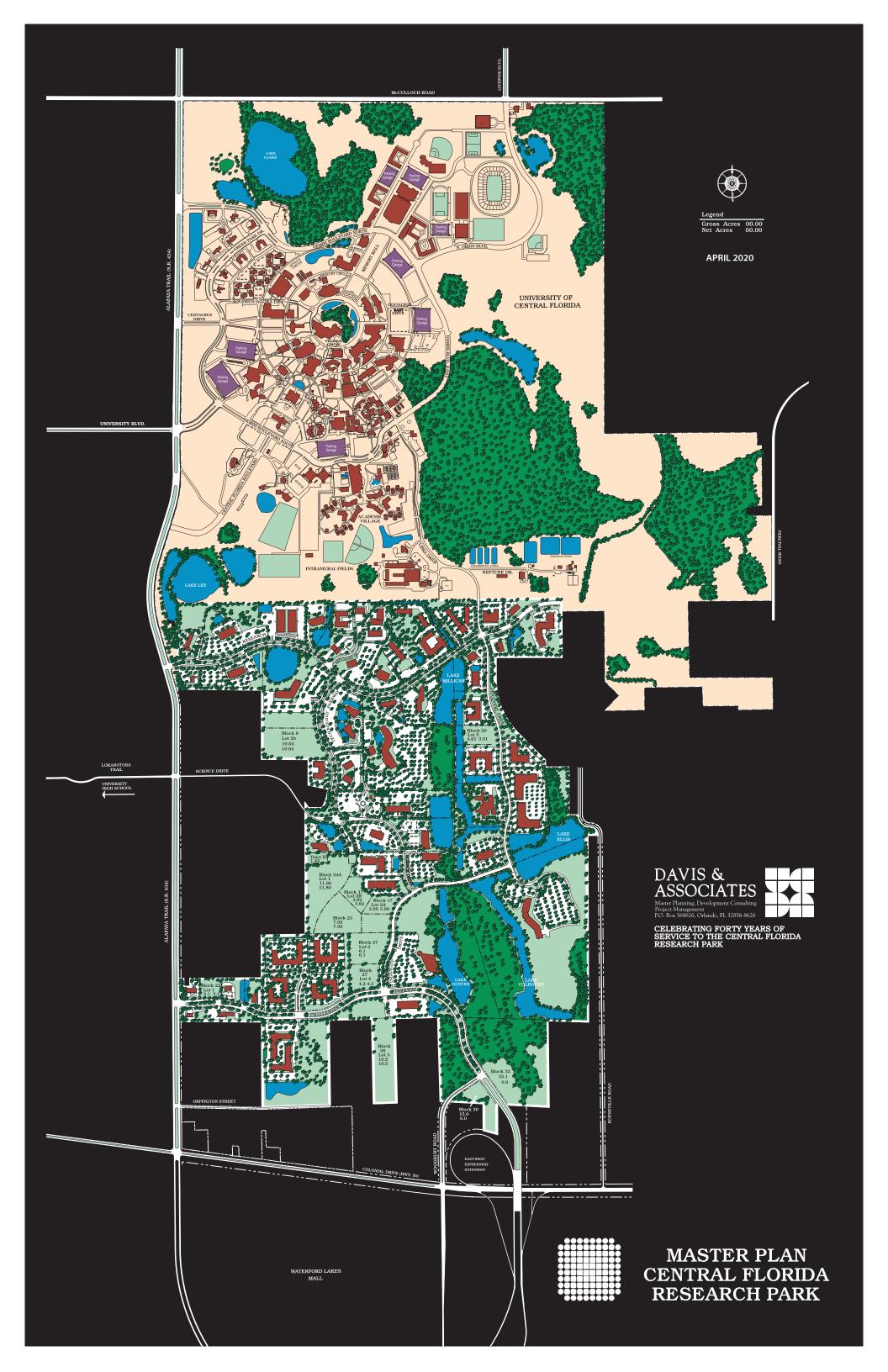


Questions?



- Labor Provide by 202nd REDHORSE (FLANG)
- Prepared to Execute ASAP
- Construction Begins September '23

Lt. Col. Jonathan "Flood" Kassebaum 125th FW F-35 Conversion Director



City of Jacksonville, Military Affairs and Veteran Department

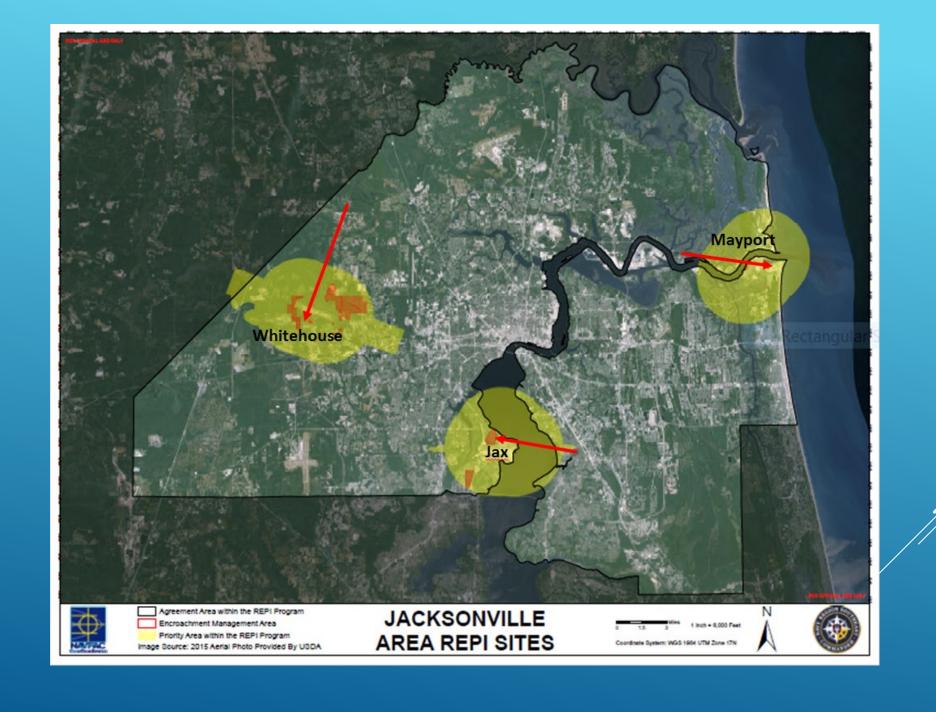
ENCROACHMENT PROTECTION/COMPATIBLE LAND USE FOR NS MAYPORT, NAS JACKSONVILLE AND OLF WHITEHOUSE JULY 1, 2023-JUNE 30, 2024

"OUR CITY HAS A STRONG RELATIONSHIP WITH THE MILITARY, PARTICULARLY THE U.S. NAVY. THAT RELATIONSHIP EXTENDS BEYOND JOBS AND ECONOMIC IMPACTS. THESE SERVICE MEMBERS ARE A VITAL PART OF OUR COMMUNITY."

- Mayor Lenny Curry

"THE CITY OF JACKSONVILLE AND THE UNITED STATES NAVY HAVE PARTNERED TO SUCCESSFULLY PROTECT THE MILITARY MISSIONS AND SERVICE MEMBERS FOR MORE THAN 15 YEARS. THIS PARTNERSHIP HAS LED TO OVER 1700 ACRES BEING PROTECTED FROM INCOMPATIBLE LAND USE IN THE MILITARY INFLUENCE ZONE OF DUVAL COUNTY INSTALLATIONS. THROUGH THE OUTSTANDING SUPPORT OF THE STATE OF FLORIDA WE CONTINUE TO BE ABLE TO COMBINE FUNDS TO SECURE THE LONG-TERM VIABILITY OF OUR NAVY BASES."

Captain Marcos Cantu, Commanding Officer, NAS Jacksonville



SECOND AMENDED AND RESTATED MULTI-YEAR ENCROACHMENT PROTECTION AGREEMENT

INTRODUCTION:

This Second Amended and Restated Multi-Year Encroachment Protection Agreement Between the United States of Americas, the City of Jacksonville, Florida, and North Florida Land Trust, Inc. ("Agreement") is effective as of the date of the last signature below (the "Effective Date") and is emersed into by and among The United States of America, acting by and through The Department of the Navy ("Navy"); the City of Jacksonville, Florida, a consolidated political subdivision and monicipal corporation existing under the laws of the State of Florida ("City"); and North Florida Land Trust, Inc., a Florida not for profit corporation ("NFLI"), (each a "Party") and collectively, the "Parties").

The Parties have entered into this Agreement to establish the terms and conditions applicable to the contribution of Federal funds for acquisition of long-term interests in parcels of land in the vicinity of Naval Air Station Jacksonville ("NNS Jacksonville"), Navy Outlying Landing Field Whitchouse ("NOLF Whitehouse"), Naval Station Mayport ("NS Mayport"), and the Pinceastle Range Complex, (each an "Installation" and collectively, the "Installations") in accordance with the provisions of 10 U.S.C. \$2684a as described in more detail below. This Agreement is amended and restated to add North Florida Land Trust, Inc. as a Party to the Agreement, to add the Pinceastle Range Complex as an Installation under the Agreement; and to extend the term of the Agreement. The Parties hereby affirm the following Recitals, which Recitals are incorporated into the Agreement by reference.

RECITALS:

- A. WHEREAS, Navy and City entered into that certain Amended and Restated Multi-Year Encroachment Protection Agreement Between the United States of America and the City of Jacksonville, Florida, effective as of 3 May 2017, (the "Amended and Restated Agreement") to prevent encroachment, limit incompatible development, and promote conservation of ecologically and agriculturally significant lands in the vicinity of the Installations, all as more particularly described in the Amended and Restated Agreement as amended and restated herein;
- B. WHEREAS, Navy previously amended the Amended and Restated Agreement pursuant to those certain administrative modifications Numbers 3 through 11, for Navy funding purposes (the "<u>Previous Amendments</u>") (hereafter, all references to the Amended and Restated Agreement means the Amended and Restated Agreement as amended by the Previous Amendments);
- C. WHEREAS, pursuant to this Agreement, Navy and City desire to amend and restate the Amended and Restated Agreement by, among other things, adding NFLT as an additional Party so that NFLT may participate in transactions contemplated in the Amended and Restated Agreement, as amended and restated by this Agreement;

- D. WHEREAS, NFLT desires to be added as an additional Party to the Amended and Restated Agreement, as amended, restated, and superseded in its entirety by this Agreement, so that NFLT may participate in transactions contemplated in the Amended and Restated Agreement, as amended and restated by this Agreement;
- E. WHEREAS, NFLT is an "eligible entity" under the provisions of Title 10 of the United States Code Section 2684a;
- F. WHEREAS, City and NLFT may each be referred to as a "Non-Navy Party" or un "Eligible Entity," or collectively as the "Non-Navy Parties" or "Eligible Entities";
- G. WHEREAS, the Parties agree that Navy's contribution toward any particular acquisition under this Agreement in which NFLT is the Participant shall be a fifty percent (50%) cost share;
- H. WHEREAS, the Parties agree to add the Pinecastle Range Complex, located in Marion, Lake, Volusia, and Putnam Counties, Florida, as an "Installation" subject to this Agreement:
- I. WHEREAS, the Parties desire to replace Attachment A to the Amended and Restated Agreement with updated maps depicting the Military Influence Zones around NAS Jacksonville, OLF Whitehouse, and NS Mayport and the Military Operations Area for the Pinecastle Range Complex subject to this Agreement;
- J. WHEREAS, the Parties agree the term of this Agreement shall be five (5) years, with two options for an additional five (5) years each, consistent with the provisions of Section 5.01 herein;
- K. WHEREAS, the Parties stipulate that they are entering into this Agreement solely for the purposes of: (i) adding NFLT as a Non-Navy Party; (ii) establishing a fifty percent (50%) cost share for acquisitions in which NFLT is the Participant; (iii) replacing Attachment A with an updated Attachment A; (iv) extending the term of this Agreement and adding two options for additional extensions; and (v) amending and restating the Amended and Restated Agreement in its entirety, pursuant to the terms of this Agreement; and
- WHEREAS, the Parties stipulate that this Agreement shall supersede and replace the Amended and Restated Agreement.

NOW THEREFORE, for and in consideration of the mutual promises set forth herein, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby amend and restate the Amended and Restated Agreement in its entirety, each Party agreeing to be bound by the terms of this Agreement.

PURCHASE AND SALE AGREEMENT FOR RESTRICTIVE EASEMENT

THIS PURCHASE AND SALE AGREEMENT FOR RESTRICTIVE EASEMENT (the "Agreement") is made and entered into this 2nd day of April , 2020 (the "Effective Date") by and between the CITY OF JACKSONVILLE, a consolidated municipal and county political subdivision of the State of Florida, having an address of c/o Military and Veterans Affairs Department, Office of General Counsel, 117 West Duval Street, Jacksonville, Florida 32202 (the "Purchaser"), and TIMUQUANA COUNTRY CLUB, a Florida Not For Profit Corporation, having an address of 4028 Timuquana Road, Jacksonville, Florida 32210 (the "Seller").

- A. Seller is the owner of a parcel of land located in Duval County, Florida, more particularly described on <u>Exhibit A</u> (the "Property") consisting of approximately 100 acres, more or less, and being a portion of Tax Parcel Number 97640-0000.
- B. Purchaser, pursuant to that certain Multi-Year Encroachment Protection Agreement effective July 29, 2009, as authorized by Jacksonville Ordinance 2009-60-E, as amended from time to time, and that certain Amended and Restated Multi-Year Encroachment Protection Agreement dated May 3, 2017, as authorized by Jacksonville Ordinance 2017-153-E, (collectively, the "Encroachment Agreement") between Purchaser and United States of America, Department of the Navy (the "Department of the Navy"), as supplemented by the authority in Jacksonville Ordinance 2012-498-E for the Mayor and Corporation Secretary to execute and deliver on behalf of Purchaser those documents necessary or appropriate to effectuate future acquisitions by Purchaser and Navy of properties designated as part of the Military Notice Zone in the City of Jacksonville Comprehensive Plan within which the Property lies, desires to purchase a restrictive easement interest over the Property from the Seller subject to the terms and conditions in this Agreement.
- C. Pursuant to the Encroachment Agreement the Department of the Navy will contribute funds to Purchaser for Purchaser's acquisition of a restrictive easement from Seller.
- D. The Seller has also agreed to grant Purchaser an option to purchase additional restrictive easements over other lands owned by Seller, as set forth in this Agreement.

NOW, THEREFORE, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereby agree to the terms and conditions of this Agreement.

- 1. **DESCRIPTION OF TRANSACTION.** Seller agrees to grant to Purchaser, and Purchaser agrees to purchase from Seller, in accordance with the terms and subject to the conditions contained in this Agreement, a restrictive easement over the Property (the "Easement").
- PURCHASE PRICE. In consideration of Seller's conveyance of the Easement,
 Purchaser shall pay Seller \$5,884,000.00 (the "Purchase Price") in accordance with the

PURCHASE AND SALE AGREEMENT FOR RESTRICTIVE EASEMENT

THIS PURCHASE AND SALE AGREEMENT FOR RESTRICTIVE EASEMENT (the "Agreement") is made and entered into this IS day of A. 2022 (the "Effective Date") by and between the CTTY OF JACKSONVILLE, a consolidated municipal and county political subdivision of the State of Florida, having an address of a Onliticary and Veterans Affairs Department, Office of General Counsel, 117 West Duval Street, Jacksonville, Florida 32202 (the "Purchaser"), and TIMUQUANA COUNTRY CLUB, a Florida Not For Profit Comporation, having an address of 4028 Timuquana Ruad, Jacksonville, Florida 32210 (the "Selber").

- A. Seller and Purchaser are parties to that certain Purchase and Sale Agreement dated April 2, 2020 (the "Original Agreement") pursuant to which Seller granted Purchaser continuing options to purchase restrictive easements over certain lands consisting of approximately 295.55 acres and comprised of the lands dosignated as Real Estute Parcel Number 97640-0000 and Real Estate Parcel Number 097682-0000, less that approximately 100 acres portion of Real Estate Parcel Number 97640-0000 that is subject to the Restrictive Easement between Purchaser and Seller dated May 11, 2020 and recorded at Official Book 19207, Pago 1830, in the public records of Duval County, Florida, and that 35 acres portion of Real Estate Parcel Number 97640-0000 subject to the Restrictive Easement between Purchaser and Seller dated June 4, 2021 and recorded at Official Book 1921, Page 1832, in said public records (collectively, the "Option Property");
- B. Purchaser has exercised an option to purchase a restrictive easement over that portion of the Option Property set forth on Exhibit A attached bereto and consisting of approximately sixty (60) acres, pursuant to the terms and conditions of the Original Agreement (the "Pennerty"):
- C. Purchaser, pursuant to that certain Multi-Year Encroschment Protection Agreement effective July 29, 2009, as authorized by Jacksonville Ordinance 2009-60-E, as amended from time to time, and that certain Amended and Restated Multi-Year Encroschment Protection Agreement dated May 3, 2017, as authorized by Jacksonville Ordinance 2017-153-E, (collectively, the "Encroschment Agreement") between Purchaser and United States of America, Department of the Navy (of the "Department of the Navy" or "Navy"), as supplemented by the authority in Jacksonville Ordinance 2012-498-E for the Mayor and Corporation Socretary to execute and deliver on behalf of Purchaser those documents necessary or appropriate to effectuate future acquisitions by Purchaser and Navy of properties designated as part of the Military Notice Zone in the City of Jacksonville Comprehensive Plan within which the Property lies, desires to purchase a reactive casement interest over the Property from the Seller subject to the terms and conditions in this Agreement.
- D. Pursuant to the Encroachment Agreement the Department of the Navy will contribute funds to Purchaser for Purchaser's acquisition of a testricitive easement from Seller.

NOW, THEREFORE, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereby agree to the terms and conditions of this Agreement.

A CTITUTE I SUSTINGUA

ACTIVE:13265772.4

- RECITALS; DEFINITIONS. The recitals set forth above are true and correct
 and are incorporated into this Agreement by reference. Capitalized terms not defined herein shall
 have the meanings set forth in the Original Agreement.
- DESCRIPTION OF TRANSACTION. Saller agrees to grant to Purchaser, and Purchaser agrees to purchase from Seller, in accordance with the terms and subject to the conditions contained in this Agreement, a restrictive easement over the Property (the "Easement").
- 3. PURCHASE PRICE. In consideration of Seller's conveyance of the Easement, Purchaser shall pay Seller \$3,500,400.00 (the "Purchase Price") in accordance with the payment terms set forth in this Agreement. The escrow and closing agent for this transaction shall be GIBRALITAR TITLE SERVICES (the "Escrow Accur").
- a. <u>City of Jacksonville Funding Contribution</u>, Pursuant to the Encroschment Agreement, the City's maximum indebtedness amount under this Agreement for its 25% Share of the Purchase Price is not to exceed \$882,600.00 (the "City's Maximum Indebtedness").
- b. Department of Navy Funding Contribution. Pursuant to the Encroachment Agreement, the Department of the Navy's contribution for purchase of the Ensement shall be 75% of the Purchase Price, not to exceed \$2,647,800.00 plus allocated closing costs (the "Navy's Funding Contribution"). Seller understands and agrees that the Closing is expressly conditioned upon the Escrew Agent's receipt of the Navy's Funding Contribution, together with Navy's other allocated closing onsts, on or before the Closing Date.

4. INSPECTION PERIOD.

- a. <u>Duratios.</u> Purchaser and its agents shall have the right subject to the terms in this Agreement for a 30 day period beginning on the Effective Date and ending at 6:00 p.m. (Jacksonville, Florida time) on the 30th day after the Effective Date (the "Inspection Period"), or any other time approved by Seller, to enter upon the Property to inspect, examine, and investigate the Property to determine whother or not the same is satisfactory to Purchaser, in Purchaser's sole discretion, for the purpose of purchasing the restrictive ensement. If Purchaser determines in its sole discretion, that the Properly is not settificatory to Purchaser, then-Punchaser may terminate this Agreement by written notice to Seller prior to the end of the Inspection Period, whereupon the parties shall have no further rights or obligations under this Agreement except those that specifically survive the termination of this Agreement.
- b. <u>Entry and Inspection.</u> Purchaser shall have the right and privilege to enter upon any portion of the Property to inspect, examine, appraise, survey, and otherwise perform or conduct such tests, inspections, studies, audits, appraisals, or other evaluations as Purchaser may deem necessary, at Purchaser's sole cost and expense, in conjunction with Purchaser's acquisition of the Easement; provided that Purchaser may not conduct any soil borings or any phase II environmental studies without Seller's prior written consent. Following Purchaser's inspection of the Property, Purchaser shall restore the Property to its original condition, normal wear and test and ects of nature excepted.

2

ACTIVE(15057867,4



N00207

ENCROACHMENT PROTECTION



Scale: 1:16,000

1 Inch = 1,333 feet



Date: 5/4/2023 Naval Facilities Engineering Command Southeast Asset Utilization Branch, AM4

Contact: Matthew Brice (904) 542-2132

Unclassified Sensitive upon aggregation. Reproduction, distribution, publication, or exhibition of this data is strictly prohibited without the written consent of the Commander Navy Region Southeast GeoReadiness Center. CNRSE GeoReadiness Center does not attest to or guarantee the currency and/or validity of the data contained in this map, nor does it attest to any spatial accuracy. This map is for planning purposes only.



PHASE 4 NAS JACKSONVILLE ENCROACHMENT PROTECTION

This instrument prepared by Office of General Counsel Department of the Navy

Record and Returnto: Naval Facilities Engineering Systems Command Southeas Attn: Real Estate Contracting Officer AM12 Box 30, Bldg. 903 Jacksonville, FL 32212-0030

RESTRICTIVE EASEMENT

the "Effective Date"), by TIMUQUANA COUNTRY CLUB, a Florida Not For Profit Corporation, having an address of 4028 Timuquana Road, Jacksonville, Florida 32212-8532 (the "Grantor"), to the CITY OF JACKSONVILLE, a consolidated political subdivision and municipal corporation existing under the laws of the State of Florida, having an address of 117 West Duval St., Florida 32202 (the "Grantee").

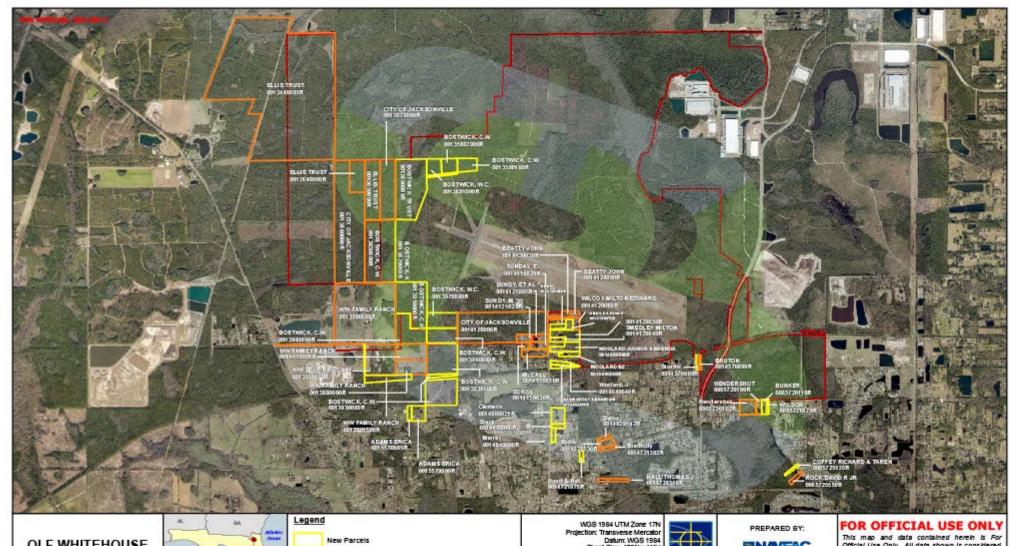
WITNESSETH:

WHEREAS, Grantor is the sole owner in fee simple of certain non-homestead real property containing approximately thirty-five (35) acres located in Duval County, Florida, being a portion of Duval Tax Parcel 97640-0000, as more particularly described in **Exhibit A** and depicted in **Exhibit B** both of which are attached hereto and incorporated by this reference (the **"Property")**; and

WHEREAS, the Property is in the vicinity of Naval Air Station Jacksonville, Florida (the "Installation") which is operated and used by the United States of America (the "United States") for military purposes; and

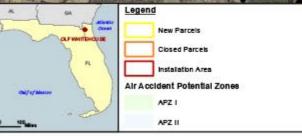
WHEREAS, Grantee and the Federal Government have entered into an agreement pursuant to 10 U.S.C. § 2684a to work together to prevent encroachment, limit development that is incompatible with the mission of the Installation, and achieve conservation objectives by acquiring certain real property interests located in the vicinity of the Installation; and

WHEREAS, Jacksonville Ordinance 2012-498-E authorizes the Mayor and Corporation Secretary to execute and deliver on behalf of Grantee those documents necessary or appropriate to effectuate future acquisitions by Grantee of properties designated as part of the Military Notice Zone in the City of Jacksonville Comprehensive Plan within which the Property lies; and



OLF WHITEHOUSE N00207-WH

ENCROACHMENT PROTECTION



Datum: WGS 1984 Sheet Size: 17"W x 11"H

Scale: 1:31,200

1 Inch = 2,600 feet 4,200 Feet

0 300

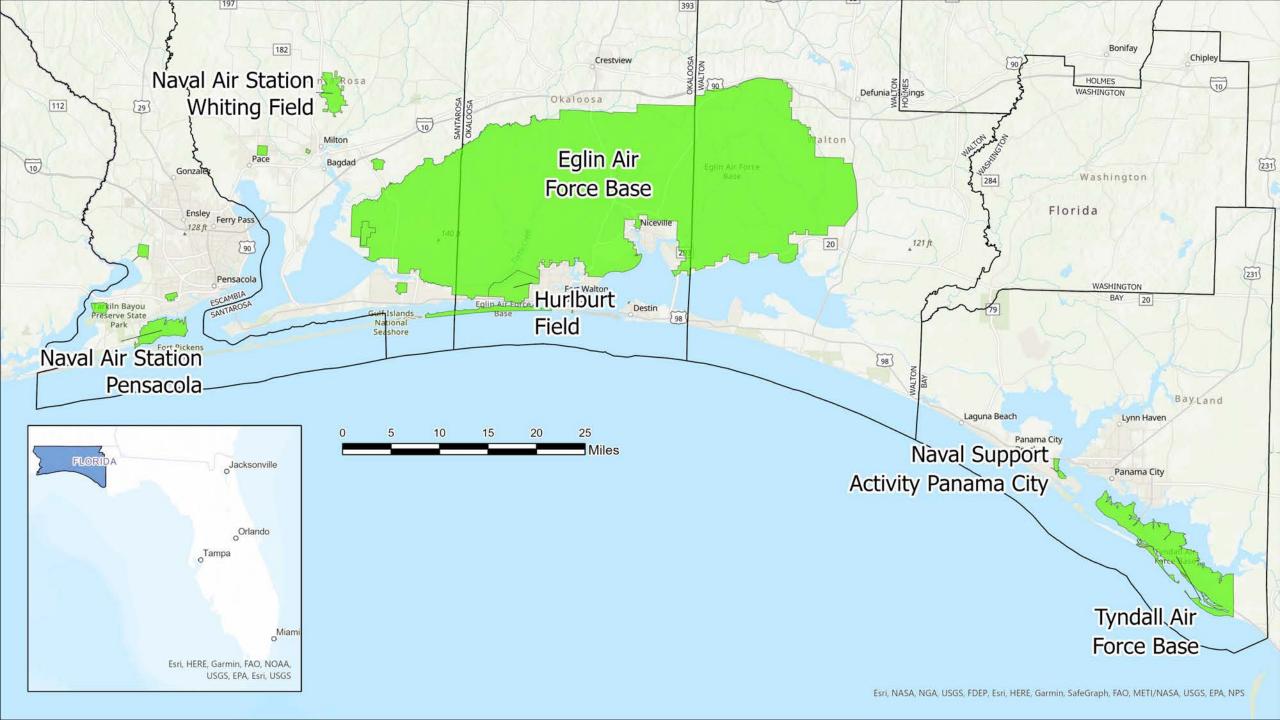


Date: 5/4/2023 Naval Facilities Engineering Command Southeast Asset Utilization Branch, AM4 Contact: John Frazier (904) 270-3176

Official Use Only. All data shown is considered Unclassified Sensitive upon aggregation. Reproduction, distribution, publication, or exhibition of this data is strictly prohibited without the written consent of the Commander Navy Region Southeast GeoReadiness Center. CNRSE GeoReadiness Center does not attest to or guarantee the currency and/or validity of the data contained in this map, nor does it affest to any spatial accuracy. This map is for planning purposes only.

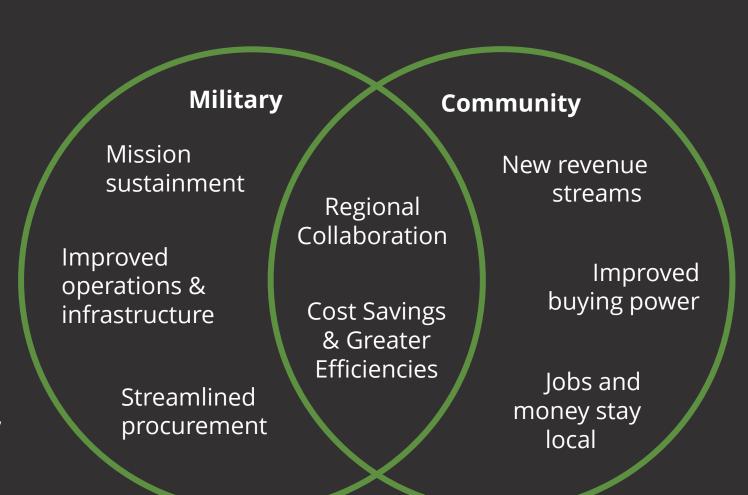


Intergovernmental Support Agreement (IGSA) Implementation



Intergovernmental Support Agreements (IGSAs)

- Created in 2013 by 10 USC 2679.
- Allows military services to create formal partnerships with local and state governments for services, material procurement, and mutual support
- 185 IGSAs exist across DoD, saving ~\$50M/Year.



PROJECT TIMELINE - PHASE I (22-23)





OPPORTUNITY ASSESSMENT

•

Regional installations have shared existing and proposed service contracts for evaluation. We have identified the following areas as most promising for IGSA development based on identified needs and national examples:



Road/pavement maintenance



Refuse / recycling removal



Medical supply / services







Construction



PROJECT TIMELINE – PHASE II (23-24)



Support military installations and local governments during adoption

process

Summer 2023

Hotwash exercises including lessons learned and preparation for development of Standard Operating Procedures

Fall 23

Ongoing support and refinement of SOPs for IGSAs or other partnerships

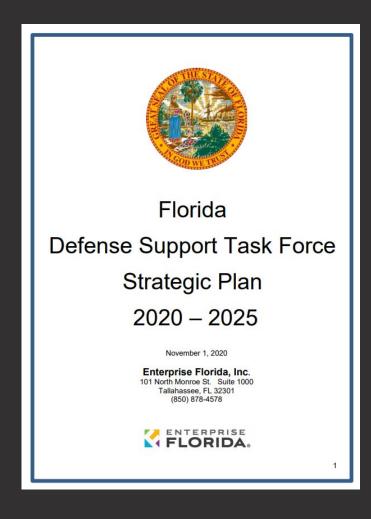
Winter 23/24

Final SOPs developed for local government and military installation staff

Spring 24



Supporting your Strategic Plan



Objective #1.1

Promote Florida as best and most costeffective solution for DoD

Objective #2.3

Lower installations' costs of doing business through public-private partnerships.

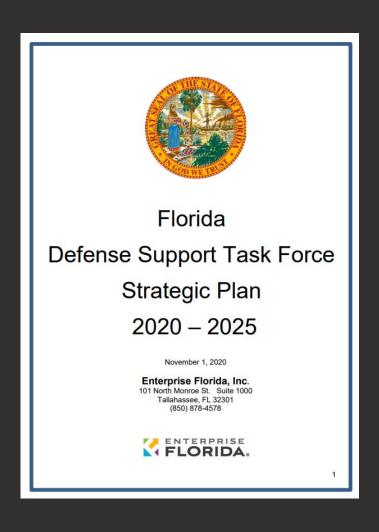
Activity #2.3.1

Assist in identifying for communities, opportunities for Community Partnerships with local bases

Goal #3

Foster and strengthen mutually beneficial communication and relationships between state, installation and community

Supporting your Strategic Plan



Base Specific Objectives & Activities

NAS Pensacola Public-Private Partnership Agreements for cross-fence line infrastructure and public services.

Eglin AFB Strengthen support for Community Partnership Programs.

Tyndall AFB Promote engagement of all local government, municipalities and the county to ensure that the Base of the Future is supported by the community of the future, committed to the delivery of quality services.

Contact

- Austin Mount, CEO austin.mount@ecrc.org
- Ada Clark
 Community & Econ. Dev. Director
 ada.clark@ecrc.org
- **Eric Christianson**, Planner eric.christianson@ecrc.org





Concept Development of the Florida Advanced Training Range (FATR / Phase 1B)

Dr. Matthew Schwartz

Associate Vice President of Research Administration



The FATR Team

GRANT APPLICANT

University of West Florida

GRANT ADMINISTRATOR

Dr. Matthew Schwartz, UWF Associate VP of Research Administration

PROJECT MANAGER/LEAD CONSULTANT

Rob Polumbo, Maj Gen (ret) USAF Mumbles Group, LLC

CONSULTANTS

Jake Polumbo, Maj Gen (ret) USAF The Polumbo Group, LLC

Rick Miller, CAPT (ret) USN PHAROS Mission Critical, LLC

SUBJECT MATTER EXPERTS

James Philpitt, CAPT (ret) USN USSOCOM J59

David Lowe, LCDR (ret) USNR Streaker Lowe, LLC

INDUSTRY

Leonard Coleman, Col (ret) USAF VP, Scientific Research Corporation

Jeremy Jetton CTO, Scientific Research Corporation





Where We Started...Why FATR?



- Aligned to Strategic/Operational/ Tactical Requirements
- Only place in CONUS
 - Replicate pacing threat environment
 - Premier training for joint, all-domain missions
 - Reduce TDY/TAD for our military units
- Builds on Previous FDSTF Initiatives
 - Landscape Initiative
 - Carrabelle (FY17-18)
 - UWF/FDA/TRG logical, next step
- Aligned to 14 FDSTF Strategic Plan Objectives
 - Primary Goal 2.1/Increase value of FL Ranges
- Increased revenue, R&D, economic development for Florida communities





Network & Enhance Military Value of FL Ranges

Military Readiness that MEETS OUR NATIONAL DEFENSE STRATEGY!



Coalition of Support

Key Leader Engagements

Federal Congress Rep Scott Franklin FL District 18 Rep Jake Ellzey TX District 6 Rep Carlos Gimenez FL District 28 Rep Mario Diaz-Balart FL District 26 Rep Gus Bilirakis FL District 12 (Jun) Rep Mike Waltz FL District 6 (Jul) Rep Matt Gaetz FL District 1 (Jul) Sen Rick Scott FL (Jul) Rep Kathy Castor FL District 14 (May) Mach 1 Caucus (24 May) **FAA** FATR airspace proposal presented at Eastern Airspace/Range Conference NGB Lt Gen Marc Sasseville, NGB/CV State Legislature Rep Paul Renner, SoH, District 19 (Jun) Sen Jay Collins, District 14 (Jun) FLANG/FLARNG

MG John Haas, TAG

0oD										
	OSD									
	•	Mr. Gre	g Knapp, Force Education/Training							
	•	EW/LVC	Joint Study Group							
	Navy									
	•	RADM J	ohn Meier, COMNAVAIRLANT							
	•	CDR Mary Robinson, FACSFAC JAX/CO								
	SSC									
	•	Col Mar	k Shoemaker, SLD45/CV							
	Air Forc	e								
	•	PACAF								
		•	Gen Ken Wilsbach, Commander							
	•	ACC								
		•	Lt Gen Russ Mack, DCOM							
		•	Maj Gen Dave Lyons, A3							
		•	Maj Gen Mike Koscheski, 15AF/CC							
	•	AETC								
		•	Maj Gen Phil Stewart, 19AF/CC							
	•	AFMC								
		•	Maj Gen Evan Dertien, AFTC/CC							
	•	AMC								
		•	Col Adam Bingham, 6ARW/CC							
	•	AFRC	A4 : 0 B B WY 4045/00							
		45506	Maj Gen Bryan Radliff, 10AF/CC							
	•	AFSOC								
		•	Brig Gen Jocelyn Schermerhorn, A3							

Stakeholders

Florida Air and Army National Guard

- 125th Fighter Wing
- 53rd Infantry Brigade Combat Team
- 111th Aviation Regiment

Air Force Reserve Command

- 482nd Fighter Wing
- 920th Rescue Wing
- 927th Air Refueling Wing

Air Combat Command

- 325th Fighter Wing
- 53rd Wing
- 23rd Wing
 - 598th Range Squadron
 - Avon Park Air Force Range (APAFR)
 - MacDill AFB Deployed Unit Complex (DUC)

<u>Air Education and Training Command</u>

• 33rd Fighter Wing

Air Force Materiel Command

96th Test Wing/Eglin Gulf Test
 Range

Air Mobility Command

• 6th Air Refueling Wing

<u>Air Force Special Operations Command</u>

1st Special Operation Wing

Navy

- Naval Air Forces Atlantic (AIRLANT)
 - Fleet Area Control and Surveillance Facility Jacksonville (FACSFAC JAX)
 - Pinecastle Range
 Complex (PRC)
- CFFC
 - Carrier Strike Group FOUR (CSG4)
- Fleet Forces Command (FFC)
- Naval Station Mayport
 - HSM-40/46/48/50
- NAS Jacksonville
 - Patrol Sq 8 (VP-8)
- Naval Air Station Key West (NASKW)

Space Force

- Space Systems Command
 - Space Launch Delta 45 Patrick
 Space Base



Where We Are...Phase 1A

TASKS

1.1. Define logistics, equipment and unit training requirements

1.2. Develop organizational structure, management and operation of

1.3. Develop and demonstrate PATS/ALVC prototype system (TRL6)

2.1. Coordinate and seek Federal Aviation Administration (FAA), Air Traffic Control (ATC) and military airspace management approval for airspace framework and processes

2.2. Coordinate and seek spectrum certification for threat emitters

3.1. Coordinate support/utilization of DoD resources and installations

DELIVERABLES

- A. Operational manual (draft) outlining the requirements, organizational structure and processes for the FATR
- B. PATS and ALVC prototype system demonstrated in laboratory environment
- C. Coordinated and approved ATC corridor procedures to link regional military airspace to utilize the FATR
- D. Coordinated and approved frequency spectrum management procedures

FUNDING

- 1. PATS and ALVC prototype technology development: \$150,000
- 2. Subject Matter Expert & Consulting: \$135,000
- 3. Travel: \$15,000
- 4. Total request: \$300,000

Requirements complete

Development of cost estimates for Phase 2

Organization, management and operation strategy complete

Operation manual in coordination with USAF/USN

Modeling, programming and components complete

Testing of prototype starts 22 May; demonstration 7-8 Jun

Airspace proposal review by stakeholders complete

Consolidated airspace proposal in coordination at USAF/USN/USSF headquarters/Submission to FAA in Phase 1B

DD1494 for MET-L complete

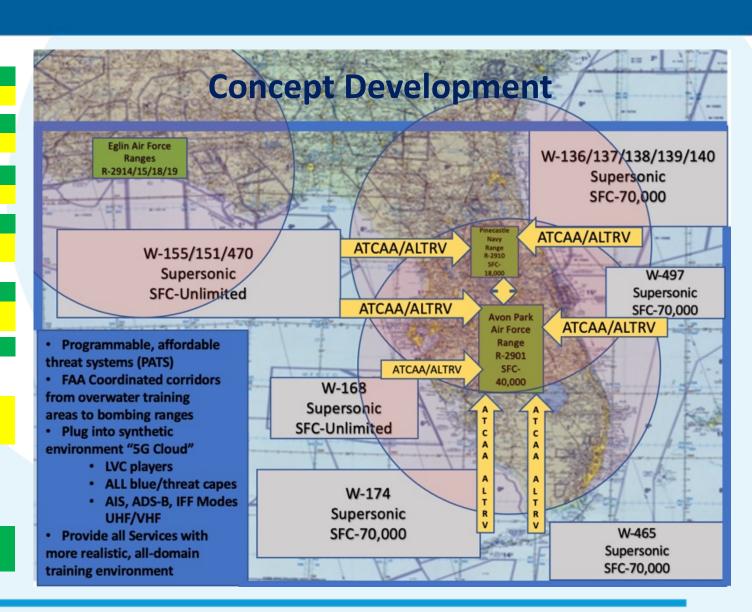
DD1494 process for MET-H and Spectrum certifications in coordination with USAF/USN SMO

DoD resources and installation support complete

All deliverables will be completed by 30 June 2023/Operation manual, airspace proposal, and spectrum certifications developed; final approvals will require further coordination in Phase 1B

Over 75% of funding executed as of 18 May 2023

BL-ON TIME/ON BUDGET





Where We Are Going...Phase 1B

TASKS

- 1. Develop, field and install Operation Control Center (OCC) at APAFR, Unit Operation Center (UOC) location TBD with completed FATR operation manual
- 2. Develop, field and install PATS/ALVC prototype system on APAFR for demonstration in an operational environment (TRL 7)
- Coordinate with Service branches to submit airspace proposal, spectrum authorizations and demonstrate processes when approved by the FAA and SMO
- 4. Coordinate Phase 2 support plan including engagement, resourcing, company partnership and funding sources

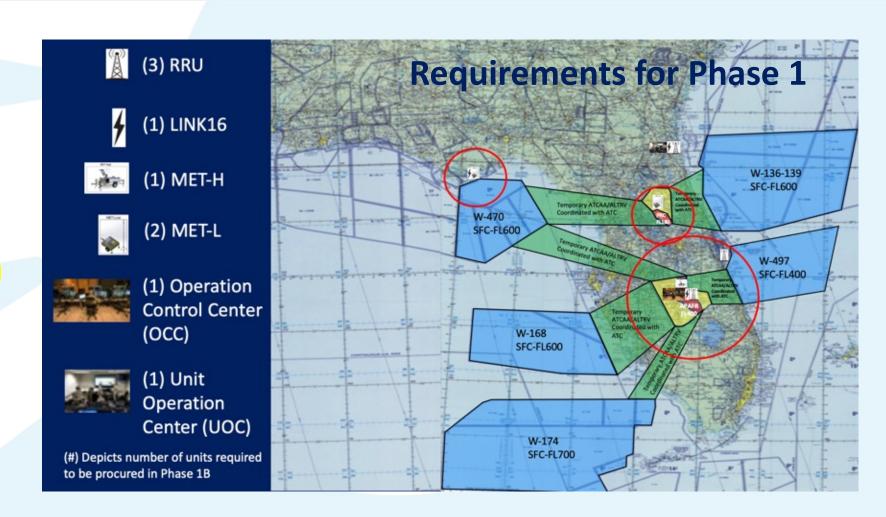
DELIVERABLES/Completed by 30 Jun 2024

- A. Functional OCC at APAFR and UOC location TBD with completed FATR operation manual submitted for incorporation in APAFR/PRC range manuals
- B. Functional PATS/ALVC prototype system demonstrated at APAFR
- C. Airspace proposal and spectrum authorizations submitted for APAFR/PRC and demonstrated when approved by FAA and SMO
- D. Phase 2 support plan coordinated

FUNDING

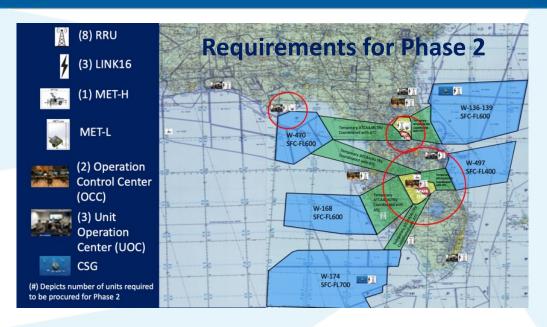
- 1. Development, procurement and demonstration of PATS/ALVC prototype and communication network for APAFR: \$200,000
- 2, Subject Matter Expert & Consulting services: \$280,000
- 3. Travel costs: \$20,000

Total funding request: \$500,000





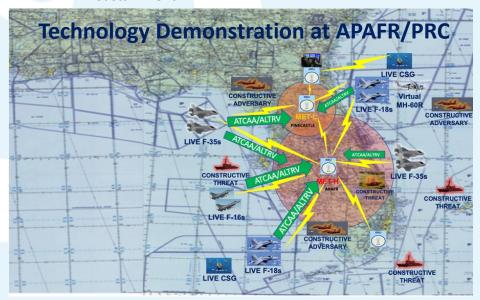
Path to Phase 2



- Engagement
 - FL/AL/GA CODEL
 - SASC/HASC/Mach 1 Caucus
 - OSD/Services/NGB
 - FAA
- Resourcing
 - Government owned technology
 - Off the Shelf/TRL 7 and above

- Company partnership
 - MS&A/Comm
 Network Experts
 - Previous DoD contracts
- Funding sources
 - Congressional
 - OSD-Force Ed/Trng
 - NGREA
 - Services
 - COCOM

- Technology advances
 - 5th gen/Synthetic-Inject-To-Live (SITL)
- Service coordination
 - Scheduling of units/aircraft
 - Weapon system interface
- Scenario development
 - · Unit training requirements
- Demonstration Plan
 - Goals/scope/resources/schedule/matrix
- PATS/ALVC and communication system
 - Architecture, setup network, maintenance, upgrades and sustainment





Questions or Comments





BACKUP SLIDES





PHASE 1A Presentation





Concept Development of the Florida Advanced Training Range (FATR / Phase 1A)

Dr. Matthew Schwartz

Associate Vice President of Research Administration



THE TEAM

GRANT APPLICANT

University of West Florida

GRANT ADMINISTRATOR

Dr. Matthew Schwartz, UWF Associate VP of Research Administration

PROGRAM MANAGER/LEAD CONSULTANT

Rob Polumbo, Maj Gen (ret) USAF Mumbles Group, LLC

CONSULTANTS

Jake Polumbo, Maj Gen (ret) USAF The Polumbo Group, LLC

> Rick Miller, CAPT (ret) USN Pharosmissioncritical, LLC

SUBJECT MATTER EXPERTS

James Philpitt, CAPT (ret) USN USSOCOM J59

Thomas Weaver, CDR (ret) USN Tactical Consulting, LLC

David Lowe, LCDR (ret) USNR TBD LLC

INDUSTRY

Leonard Coleman, Col (ret) USAF VP, Scientific Research Corporation

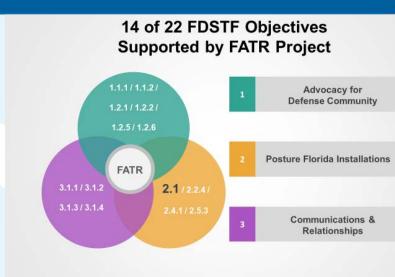
Jeremy Jetton
CTO, Scientific Research Corporation



BLUF – WHY FATR...?



- Aligned to Strategic Need
 - Replicate pacing threat
- Only place in CONUS
 - Premier training for joint, alldomain missions
 - Reduce TDY/TAD for our military units
- Builds on Previous FDSTF Support
 - Landscape Initiative
 - Carrabelle (FY17-18)
 - UWF/FDA/TRG logical, next step
- Aligned to 14 FDSTF
 Strategic Plan Objectives
 - (Primary Goal 2.1)
- Increase FL revenue and economic development

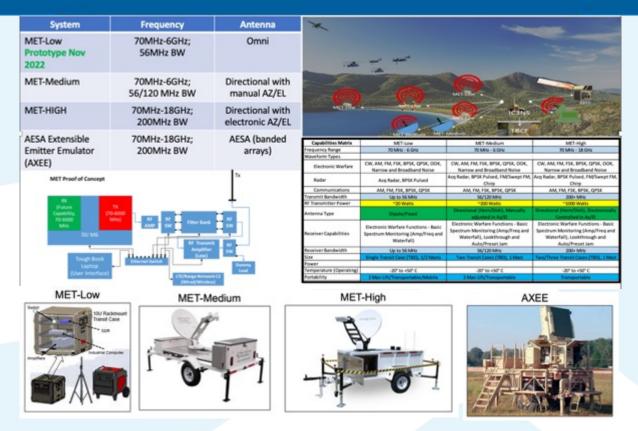


Network & Enhance Military Value of FL Ranges

Military Readiness that MEETS OUR NATIONAL DEFENSE STRATEGY!



WHAT NEEDS TO BE DONE?



Programmable, affordable threat systems (PATS)

- Family of systems covering electromagnetic spectrum (70MHz-18GHz)
- Power to "reach" overwater training areas from current ranges
- Tailorable to transmit threat array for joint, all-domain training
- Capable of networking with Virtual and Constructive entities

Advanced Live, Virtual, Constructive (ALVC)

- Proven secure, encrypted architecture
- Capable of injecting synthetic entities into live environment (Synthetic Inject To Live/SITL)
 - Virtual-simulator with "man-in-the-loop"
 - Constructive-computer generated entities
- Tailorable to replicate any mission set and training scenario





PHASE 1

Phase 1A/OBJECTIVES

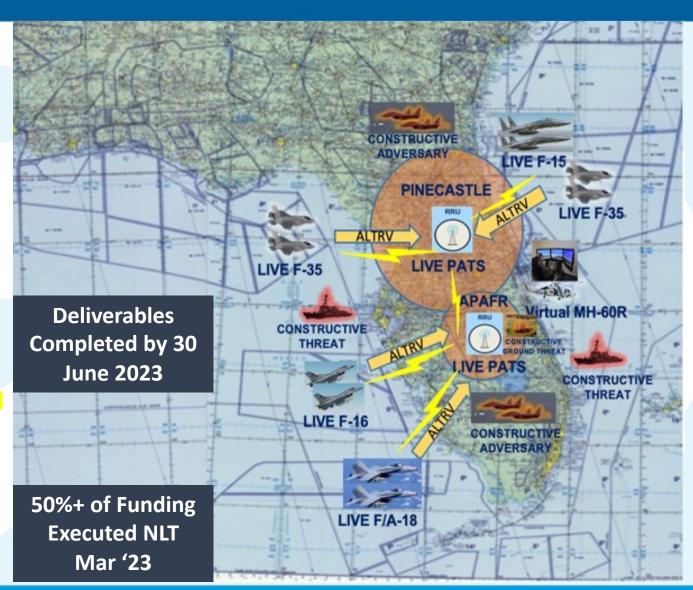
- a. Define logistics, equipment & training req'mts
- Develop organizational structure for FATR management & operation
- c. Develop PATS & ALVC prototype systems to Technology Readiness Level 6 (TRL 6)
- d. Coordinate airspace framework & processes with Federal Aviation Administration (FAA), Air Traffic Control (ATC) & military airspace mgmt
- e. Coordinate frequency spectrum deconfliction & mgmt with federal & state agencies
- Coordinate utilization of Air Force, Army, Navy and Marine Corps resources on Pinecastle Range (PRC) and Avon Park Air Force Range (APAFR)

DELIVERABLES

- a. Operational manual (draft) outlining the requirements, organizational structure and processes for the FATR
- PATS and ALVC prototype system demonstrated in laboratory environment
- c. Coordinated and approved ATC corridor procedures to link regional military airspace to utilize the FATR
- Coordinated and approved frequency spectrum management procedures

FUNDING

- PATS and ALVC prototype technology development: \$150,000
- b. Subject Matter Expert & Consulting: \$135,000
- c. Travel: \$25,000
- d. Total request: \$310,000



Phase 1B/OBJECTIVES

- Field PATS & ALVC architecture & install on PRC (Pri) APAFR (Alt); confirm system meets training requirement specifications (TRL 7)
- Define, develop, analyze interface control specifications & show proof of concept for PATS/ALVC communications network
- Develop control center to network PATS/ALVC system & create a process for military to request & schedule training scenarios
- Exercise ATC & spectrum management procedures to ensure processes are functional
- e. Develop & coordinate Phase 2 objectives, test plan & funding estimates with DoD

DELIVERABLES

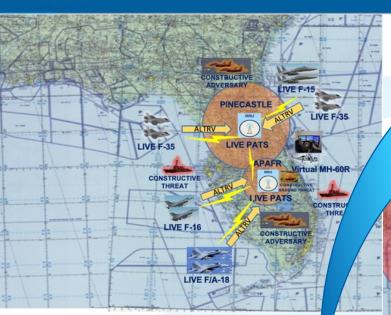
- . FATR organizational structure & control center networked with military installations
- on PRC or APAFR
- Coordinated process to schedule military resources to participate in Phase 2 testing
- Phase 2 objectives, test plan & funding estimate
- Update operational manual outlining requirements, organizational structure & processes for the FATR

FUNDING

- Procurement & installation of PATS and ALVC prototype system on PRC/APAFR: \$250,000
- . Subject Matter Expert & Consulting: \$175,000
- c. Travel costs: \$35,000
- . Total funding request: \$460,000



PHASE 2/3



Phase 2 Beta Test

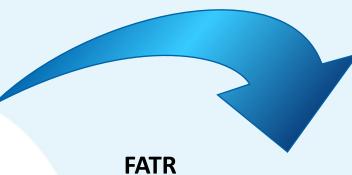
- Funded by Federal/DoD Sources
 - **OSD-Force education and training**

 - **Program Executive Office for Simulation, Training and Instrumentation**
 - Threat Systems Management Office (TSMO)
 - CCMD/USAF/USN/USA/USMC/USSF/USCG
 - Congressional insert (Mach 1 Caucus)
- 12-month proof of concept test
- **Primarily aviation weapon** systems testing

Phase 3 Build Out

Funded by Federal/DoD Sources

Install PATS/ALVC on Eglin and **Tyndall ranges / mobile options Create joint training scenarios**



- 150,000 sq mile training range
- Joint, all-domain LVC environment
- Tailorable scenarios for all missions





Questions or Comments



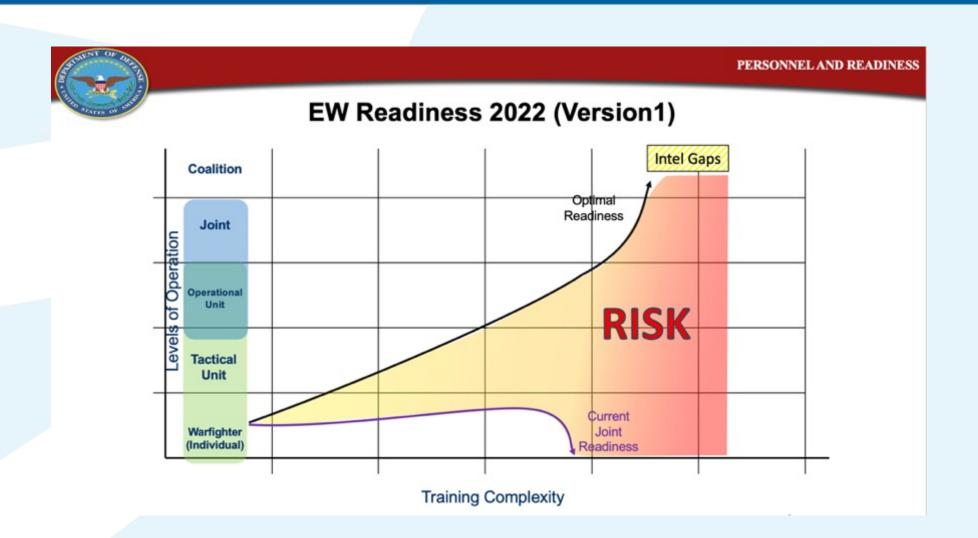


BACKUP SLIDES





DOD EW READINESS





AF EW Roadmap



F-35 TRAINING REQUIREMENTS

OCA-SEAD: Activity that neutralizes, destroys, or temporarily degrades surface-based enemy air defenses (AD) by destructive and/or disruptive means. (JP 3-01). Support A/A and A/G force packages by detecting, geo-locating, suppressing and degrading long- and medium- range SAMs or provide adequate SA to the force package to effectively negate or avoid the threats. Also, support A/A and A/G force packages by detecting, geo-locating, suppressing, and destroying short-range SAMs or provide adequate SA to the force package to effectively negate or avoid the threats.

- USAF (annual CMR requirements)
 - OCA-SEAD*: Inexperience-34 sorties (50% night)/Experience-28 sorties (50% night)
 *CC determines # flown with Joint Force
 - Electronic Warfare events: Inexperience-12/Experience-12
 - Contested Degraded Ops events: Inexperience-12/Experience 12
- USN/USMC
 - Similar annual training requirements
- Avon Park and Pinecastle ranges have limited EW assets (Cold War era threat systems) to train
 against and there are no significant future EW upgrades planned or funded for these ranges. Florida
 F-35 units (including SE region) will have to travel at least twice a year to ranges that have the
 required EW assets for aviators to remain fully, combat mission ready



CURRENT EW ASSETS

Pinecastle Range (PRC)	Avon Park Air Force Range (APAFR)						
SA-3/6/11 threat replicators (only available for carrier strike group training exercises)	Three (3) UPQ-8 single ground threat emitter simulating frequencies of Cold War era enemy missiles, anti-aircraft artillery and ground radar sites						
Man-Portable Aircraft Survivability Trainer (MAST), MANPADS Integrated Threat Simulator/Stimulator (MITSS) and SA-18 (all systems are unavailable and located at MCAS Cherry Point, NC)	The systems are never used for aircrew training because the units don't want to train against outdated and ineffective threat systems						
All listed threat replicators are Cold War era threat systems and not available on a daily basis							



FDSTF FOCUS/MISSION/GOALS

Florida's Strategic Focus

Governor's Vision: Florida remains the most military and veteran friendly state in the country.

Governor's Goals (GG):

- 1) Be the best on quality of services for our Service Members and Veterans,
- Protect, preserve and promote our active duty, reserve and national guard military installations and missions for Florida's role in US national security.
- Increase the defense industry including creating a ready workforce to fill jobs and build equipment for our installations and missions.

Governor's Priority Activities (GPA):

- 1) Secure Space Command and Space Force Assets Assignment to Florida,
- Extend legislative prohibition on O&G exploration or extraction in EGOMEX and enhance the Gulf Range.

FDSTF Mission

As established in F.S. 288.987(2), the mission of the Florida Defense Support Task Force is..."to make recommendations to preserve and protect military installations, to support the state's position in research and development related to or arising out of military missions and contracting, and to improve the state's military-friendly environment for service members, military dependents, military retirees, and businesses that bring military and base-related jobs to the state."

FDSTF Goals / Objectives / Activities

- 1. Obtain results which are mutually beneficial to Florida and the defense community through successful advocacy efforts.
 - 1.1 Promote Florida as best and most cost-effective solution for DoD.
 - 1.1.1 Actively advocate with senior national level government officials for new missions and new technology.
 - 1.1.2 Inform DoD leaders of Florida installations' capacity to absorb future
- 1.2 Advocate for favorable resolution of military and defense issues.
 - 1.2.1 Provide and maintain a plan for active and effective engagement and outreach for military and homeland defense missions and facilities located in Florida including the US Coast Guard.
 - 1.2.2 Identify, prioritize and address current and potential base and range encroachment, compatible development, resiliency and mission sustainment issues including, airspace, environmental, energy, frequency spectrum, land and water use compatibility using Military Base Protection Program (MBPP) land acquisition, Rural and Family Lands Protection Program, Florida Forever DoD Readiness and Environmental Protection Integration (REPI) and Sentinel Landscape, along with other state and federal mitigation resources.
 - 1.2.5 Work to ensure FL avoids all negative mission impacts from oceanic and terrestrial oil/gas/renewable energy development.
 - 1.2.6 Continue to advocate for full funding of the DoD's Gulf Range Enhancement program.

2. Proactively posture Florida to help DoD to find efficiencies and synergies.

- 2.1 Sensitize decision makers to the value of employing all Florida Ranges, including the National Center for Simulation, as one integrated complex to achieve optimal value for DoD by fully integrating both live and simulated test and training activities.
 - 2.2.4 Assist the Governor's office and state agencies in supporting Florida's military installations, organizations and activities as identified through the base commanders meetings.
- 2.4 Enhance Florida Congressional Delegation (CODEL) efforts to coordinate defense and security initiatives.
 - 2.4.1 Monitor actions and potential actions within the DOD and in Congress that could affect Florida's military presence and take appropriate action to encourage maintenance and growth of the military presence in Florida.
- (2.5) Synchronize common goals between local military Research & Development (R&D) efforts and adjacent academic institutions.
 - 2.5.3 Promote, protect, and grow the Manufacturing, Science & Technology (MS&T) partnerships with military, industry, and academia throughout Florida emphasizing innovation, high technature of the work, and high salary jobs.
- 2.6 Increase existing missions and add compatible missions that fit with the capacity and infrastructure of the installation.
- 3. Foster and strengthen mutually beneficial communication and relationships between state, installation and community
 - 3.1 Inform Decision Makers & Public.
 - 3.1.1 Coordinate a unified consistent message of TF members, executive and legislative branches of Florida government, congressional members and defense communities.
 - 3.1.2 Share relevant information to communities both directly and through the Florida Defense Alliance.
 - 3.1.3 Share relevant information with defense associated groups that impact Florida
 - 3.1.4 Identify, document and publicize the military value of Florida installations in the Florida Defense Factbook using core DoD criteria and the results of previous data calls.

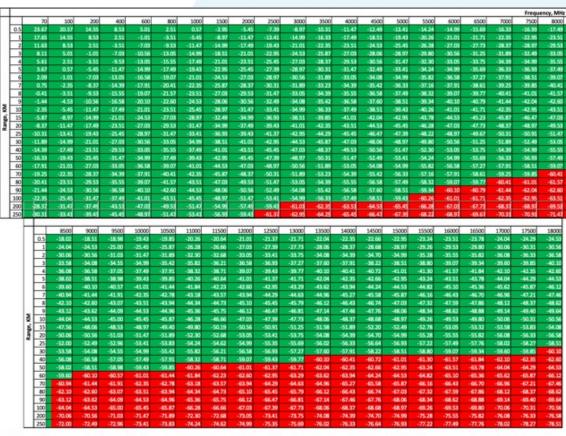


ELECTROMAGNETIC SPECTRUM

	Cla	ass	Wave- length λ	Freq- uency	Energy per photon E	
	γ	Gamma rays	1 pm	300 EHz	1.24 Me\	
lonizing radiation	HX	Hard X-rays	10 pm	30 EHz	124 ke\	
	SX	Coft V roug	100 pm	3 EHz	12.4 ke\	
	5.4	Soft X-rays	1 nm	300 PHz	1.24 ke\	
	EUV	Extreme ultraviolet	10 nm	30 PHz	124 e\	
	NUV	Near ultraviolet,	100 nm	3 PHz	12.4 e\	
	NUV	visible	1 µm	300 THz	1.24 e\	
	NIR	Near infrared	10 µm	30 THz	124 me\	
	MIR	Mid infrared	100 µm	3 THz	12.4 me\	
	FIR	Far infrared	1 mm	300 GHz	1.24 me\	
	EHF	Extremely high frequency	1 cm	30 GHz	124 µe\	
Micro- waves	SHF	Super high frequency	1 dm	3 GHz	12.4 µe\	
	UHF	Ultra high frequency	1 m	300 MHz	1.24 µe\	
	VHF	Very high frequency	10 m	30 MHz	124 ne\	
radio waves	HF	High frequency	100 m	3 MHz	12.4 ne\	
	MF	Medium frequency	1 km	300 kHz	1.24 ne\	
	LF	Low frequency	10 km	30 kHz	124 pe\	
	VLF	Very low frequency	100 km	3 kHz	12.4 pe\	
	ULF	Ultra low frequency	1 Mm	300 Hz	1.24 pe\	
	SLF	Super low frequency	10 Mm	30 Hz	124 fe\	
	ELF	Extremely low	100 Mm	3 Hz	12.4 fe\	



RF POWER (MET-H)



- Met-H, Assuming Free Space Path Loss, Sensitivity and ERP
- Ideal Case, Best to Look at Trends versus Frequency
- No Terrain, Foliage, Antenna Pattern, etc.



RF POWER (MET L/M)

									Freque	ncy, MHz		177						
	\vdash	70	100	200	400	600	800	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
	0.5	-18.32	-21.42	-27.44	-33.46	-36.98	-39.48	-41.42	-44.94	-47.44	-49.38	-50.96	-52.30	-53.46	-54.48	-55.40	-56.23	-56.90
	1	-24.34	-27.44	-33.46	-39.48	-43.00	-45.50	-47.44	-50.96	-53.46	-55.40	-56.98	-58.32	-59.48	-60.50	-61.42	-62.25	-63.0
	2	-30.36	-33.46	-39.48	-45.50	-49.02	-51.52	-53.46	-56.98	-59.48	-61.42	-63.00	-64.34	-65.50	-66.52	-67.44	-68.27	-69.00
	3	-33.88	-36.98	-43.00	-49.02	-52.55	-55.04	-56.98	-60.50	-63.00	-64.94	-66.52	-67.86	-69.02	-70.05	-70.96	-71.79	-72.5
	4	-36.38	-39.48	-45.50	-51.52	-55.04	-57.54	-59.48	-63.00	-65.50	-67.44	-69.02	-70.36	-71.52	-72.55	-73.46	-74.29	-75.0
KM	5	-38.32	-41.42	-47.44	-53.46	-56.98	-59.48	-61.42	-64.94	-67.44	-69.38	-70.96	-72.30	-73.46	-74.48	-75.40	-76.23	-76.9
×	6	-39.90	-43.00	-49.02	-55.04	-58.57	-61.06	-63.00	-66.52	-69.02	-70.96	-72.55	-73.88	-75.04	-76.07	-76.98	-77.81	-78.5
Range,	7	-41.24	-44.34	-50.36	-56.38	-59.90	-62.40	-64.34	-67.86	-70.36	-72.30	-73.88	-75.22	-76.38	-77.41	-78.32	-79.15	-79.90
22	8	-42.40	-45.50	-51.52	-57.54	-61.06	-63.56	-65.50	-69.02	-71.52	-73.46	-75.04	-76.38	-77.54	-78.57	-79.48	-80.31	-81.00
	9	-43.43	-46.52	-52.55	-58.57	-62.09	-64.59	-66.52	-70.05	-72.55	-74.48	-76.07	-77.41	-78.57	-79.59	-80.50	-81.33	-82.09
	10	-44.34	-47.44	-53.46	-59.48	-63.00	-65.50	-67.44	-70.96	-73.46	-75.40	-76.98	-78.32	-79.48	-80.50	-81.42	-82.25	-83.00
	15	-47.86	-50.96	-56.98	-63.00	-66.52	-69.02	-70.96	-74.48	-76.98	-78.92	-80.50	-81.84	-83.00	-84.03	-84.94	-85.77	-86.52
	20	-50.36	-53.46	-59.48	-65.50	-69.02	-71.52	-73.46	-76.98	-79.48	-81.42	-83.00	-84.34	-85.50	-86.52	-87.44	-88.27	-89.02
	25	-52.30	-55.40	-61.42	-67.44	-70.96	-73.46	-75.40	-78.92	-81.42	-83.36	-84.94	-86,28	-87.44	-88.46	-89.38	-90.21	-90.96
	30	-53.88	-56.98	-63.00	-69.02	-72.55	-75.04	-76.98	-80.50	-83.00	-84.94	-86.52	-87.86	-89.02	-90.05	-90.96	-91.79	-92.55
_																		
									Freque	ncy, MHz								
		70	100	200	400	600	800	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
	0.5	70 -3.32	100 -6.42	200 -12.44	400 -18.46	600 -21.98	800 -24.48	1000			2500 -34.38	3000 -35.96	3500 -37.30	4000	4500 -39.48	5000	5500 -41.23	
	0.5								1500	2000								-41.90
		-3.32	-6.42	-12.44	-18.46	-21.98	-24.48	-26.42	1500 -29.94	2000 -32.44	-34.38	-35.96	-37.30	-38.46	-39.48	-40.40	-41.23	-41.98 -48.00 -54.00
	1	-3.32 -9.34	-6.42 -12.44	-12.44 -18.46	-18.46 -24.48	-21.98 -28.00	-24.48 -30.50	-26.42 -32.44	1500 -29.94 -35.96	2000 -32.44 -38.46	-34.38 -40.40	-35.96 -41.98	-37.30 -43.32	-38.46 -44.48	-39.48 -45.50	-40.40 -46.42	-41.23 -47.25	-41.98 -48.00
	1 2	-3.32 -9.34 -15.36	-6.42 -12.44 -18.46	-12.44 -18.46 -24.48	-18.46 -24.48 -30.50	-21.98 -28.00 -34.02	-24.48 -30.50 -36.52	-26.42 -32.44 -38.46	1500 -29.94 -35.96 -41.98	2000 -32.44 -38.46 -44.48	-34.38 -40.40 -45.42	-35.96 -41.98 -48.00	-37.30 -43.32 -49.34	-38.46 -44.48 -50.50	-39.48 -45.50 -51.52	-40.40 -46.42 -52.44	-41.23 -47.25 -53.27	-41.98 -48.00 -54.02
W	1 2 3 4 5	-3.32 -9.34 -15.36 -18.88	-6.42 -12.44 -18.46 -21.98	-12.44 -18.46 -24.48 -28.00	-18.46 -24.48 -30.50 -34.02	-21.98 -28.00 -34.02 -37.55	-24.48 -30.50 -36.52 -40.04	-26.42 -32.44 -38.46 -41.98	1500 -29.94 -35.96 -41.98 -45.50	2000 -32.44 -38.46 -44.48 -48.00	-34.38 -40.40 -46.42 -49.94	-35.96 -41.98 -48.00 -51.52	-37.30 -43.32 -49.34 -52.86	-38.46 -44.48 -50.50 -54.02	-39.48 -45.50 -51.52 -55.05	-40.40 -46.42 -52.44 -55.96	-41.23 -47.25 -53.27 -56.79 -59.29	-41.96 -48.00 -54.02 -57.55
e, KM	1 2 3 4 5	-3.32 -9.34 -15.36 -18.88 -21.38 -23.32 -24.90	-6.42 -12.44 -18.46 -21.98 -24.48 -26.42 -28.00	-12.44 -18.46 -24.48 -28.00 -30.50	-18.46 -24.48 -30.50 -34.02 -36.52	-21.98 -28.00 -34.02 -37.55 -40.04	-24.48 -30.50 -36.52 -40.04 -42.54	-26.42 -32.44 -38.46 -41.98 -44.48	1500 -29.94 -35.96 -41.98 -45.50 -48.00	2000 -32.44 -38.46 -44.48 -48.00 -50.50	-34.38 -40.40 -46.42 -49.94 -52.44	-35.96 -41.98 -48.00 -51.52 -54.02	-37.30 -43.32 -49.34 -52.86 -55.36	-38.46 -44.48 -50.50 -54.02 -56.52	-39.48 -45.50 -51.52 -55.05 -57.55	-40.40 -46.42 -52.44 -55.96 -58.46	-41.23 -47.25 -53.27 -56.79 -59.29	-41.98 -48.00 -54.02 -57.55
	1 2 3 4 5 6	-3.32 -9.34 -15.36 -18.88 -21.38 -23.32 -24.90 -26.24	-6.42 -12.44 -18.46 -21.98 -24.48 -26.42 -28.00 -29.34	-12.44 -18.46 -24.48 -28.00 -30.50 -32.44 -34.02 -35.36	-18.46 -24.48 -30.50 -34.02 -36.52 -38.46 -40.04 -41.38	-21.98 -28.00 -34.02 -37.55 -40.04 -41.98 -43.57 -44.90	-24.48 -30.50 -36.52 -40.04 -42.54 -44.48 -46.06 -47.40	-26.42 -32.44 -38.46 -41.98 -44.48 -46.42 -48.00 -49.34	1500 -29.94 -35.96 -41.98 -45.50 -48.00 -49.94 -51.52 -52.86	2000 -32,44 -38,46 -44,48 -48,00 -50,50 -52,44 -54,02 -55,36	-34.38 -40.40 -46.42 -49.94 -52.44 -54.38 -55.96 -57.30	-35.96 -41.98 -48.00 -51.52 -54.02 -55.96	-37.30 -43.32 -49.34 -52.86 -55.36 -57.30	-38.46 -44.48 -50.50 -54.02 -56.52 -58.46 -60.04 -61.38	-39.48 -45.50 -51.52 -55.05 -57.55 -59.48 -61.07 -62.41	-40.40 -46.42 -52.44 -55.96 -58.46 -60.40	-41.23 -47.25 -53.27 -56.79 -59.29 -61.23 -62.81 -64.15	-41.98 -48.00 -54.02 -57.55 -60.04 -61.98 -63.57
Range, KM	1 2 3 4 5 6 7	-3.32 -9.34 -15.36 -18.88 -21.38 -23.32 -24.90 -26.24 -27.40	-6.42 -12.44 -18.46 -21.98 -24.48 -26.42 -28.00 -29.34 -30.50	-12.44 -18.46 -24.48 -28.00 -30.50 -32.44 -34.02 -35.36 -36.52	-18.46 -24.48 -30.50 -34.02 -36.52 -38.46 -40.04 -41.38 -42.54	-21.98 -28.00 -34.02 -37.55 -40.04 -41.98 -43.57 -44.90 -45.06	-24.48 -30.50 -36.52 -40.04 -42.54 -44.48 -46.06 -47.40 -48.56	-26.42 -32.44 -38.46 -41.98 -44.48 -46.42 -48.00 -49.34 -50.50	1500 -29.94 -35.96 -41.98 -45.50 -48.00 -49.94 -51.52 -52.86 -54.02	2000 -32,44 -38,46 -44,48 -48,00 -50,50 -52,44 -54,02 -55,36 -56,52	-34.38 -40.40 -46.42 -49.94 -52.44 -54.38 -55.96 -57.30 -58.46	-35.96 -41.98 -48.00 -51.52 -54.02 -55.96 -57.55 -58.88 60.04	-37.30 -43.32 -49.34 -52.86 -55.36 -57.30 -58.88 -60.22 -61.38	-38.46 -44.48 -50.50 -54.02 -56.52 -58.46 -60.04 -61.38 -62.54	-39.48 -45.50 -51.52 -55.05 -57.55 -59.48 -61.07 -62.41 -63.57	-40.40 -46.42 -52.44 -55.96 -58.46 -60.40 -61.98 -63.32 -64.48	-41.23 -47.25 -53.27 -56.79 -59.29 -61.23 -62.81 -64.15 -65.31	-41.98 -48.00 -54.02 -57.55 -60.04 -61.50 -64.90 -66.06
	1 2 3 4 5 6 7 8	-3.32 -9.34 -15.36 -18.88 -21.38 -23.32 -24.90 -26.24 -27.40 -28.43	-6.42 -12.44 -18.46 -21.98 -24.48 -26.42 -28.00 -29.34 -30.50 -31.52	-12.44 -18.46 -24.48 -28.00 -30.50 -32.44 -34.02 -35.36 -36.52 -37.55	-18.46 -24.48 -30.50 -34.02 -36.52 -38.46 -40.04 -41.38 -42.54 -43.57	-21.98 -28.00 -34.02 -37.55 -40.04 -41.98 -43.57 -44.90 -45.06 -47.09	-24.48 -30.50 -36.52 -40.04 -42.54 -44.48 -46.06 -47.40 -48.56 -49.59	-26.42 -32.44 -38.46 -41.98 -44.48 -46.42 -48.00 -49.34 -50.50 -51.52	1500 -29.94 -35.96 -41.98 -45.50 -48.00 -49.94 -51.52 -52.86 -54.02 -55.05	2000 -32.44 -38.46 -44.48 -48.00 -50.50 -52.44 -54.02 -55.36 -56.52 -57.55	-34.38 -40.40 -46.42 -49.94 -52.44 -54.38 -55.96 -57.30 -58.46 -59.48	-35.96 -41.98 -48.00 -51.52 -54.02 -55.96 -57.55 -58.88 60.04 -61.07	-37.30 -43.32 -49.34 -52.86 -55.36 -57.30 -58.88 -60.22 -61.38 -62.41	-38.46 -44.48 -50.50 -54.02 -56.52 -58.46 -60.04 -61.38 -62.54 -63.57	-39.48 -45.50 -51.52 -55.05 -57.55 -59.48 -61.07 -62.41 -63.57 -64.59	-40.40 -45.42 -52.44 -55.96 -58.46 -60.40 -61.98 -63.32 -64.48 -65.50	-41.23 -47.25 -53.27 -56.79 -59.29 -61.23 -62.81 -64.15 -65.31	-41.92 -48.00 -54.00 -57.55 -60.00 -61.90 -63.57 -64.90 -65.00 -67.00
	1 2 3 4 5 6 7 8 9	-3.32 -9.34 -15.36 -18.88 -21.38 -23.32 -24.90 -26.24 -27.40 -28.43 -29.34	-6.42 -12.44 -18.46 -21.98 -24.48 -26.42 -28.00 -29.34 -30.50 -31.52 -32.44	-12.44 -18.46 -24.48 -28.00 -30.50 -32.44 -34.02 -35.36 -36.52 -37.55 -38.46	-18.46 -24.48 -30.50 -34.02 -36.52 -38.46 -40.04 -41.38 -42.54 -43.57 -44.48	-21.98 -28.00 -34.02 -37.55 -40.04 -41.98 -43.57 -44.90 -45.06 -47.09 -48.00	-24.48 -30.50 -36.52 -40.04 -42.54 -44.48 -46.06 -47.40 -48.56 -49.59 -50.50	-26.42 -32.44 -38.46 -41.98 -44.48 -46.42 -48.00 -49.34 -50.50 -51.52 -52.44	1500 -29.94 -35.96 -41.98 -45.50 -48.00 -49.94 -51.52 -52.86 -54.02 -55.05 -55.96	2000 -32,44 -38,46 -44,48 -48,00 -50,50 -52,44 -54,02 -55,36 -56,52 -57,55 -58,46	-34.38 -40.40 -46.42 -49.94 -52.44 -54.38 -55.96 -57.30 -58.46 -59.48 -59.48	-35.96 -41.98 -48.00 -51.52 -54.02 -55.96 -57.55 -58.88 -60.04 -61.07 -61.98	-37.30 -43.32 -49.34 -52.85 -55.36 -57.30 -58.88 -60.22 -61.38 -62.41 -63.32	-38.46 -44.48 -50.50 -54.02 -56.52 -58.46 -60.04 -61.38 -62.54 -63.57 -64.48	-39.48 -45.50 -51.52 -55.05 -57.55 -59.48 -61.07 -62.41 -63.57 -64.39 -65.50	-40.40 -45.42 -52.44 -55.96 -58.46 -60.40 -61.98 -63.32 -64.48 -65.50 -66.42	-41.23 -47.25 -53.27 -56.79 -59.29 -61.23 -62.81 -64.15 -65.31 -66.33 -67.25	-41.98 -48.00 -54.00 -57.55 -60.00 -61.90 -63.57 -64.90 -67.05 -68.00
	1 2 3 4 5 6 7 8 9 10	-3.32 -9.34 -15.36 -18.88 -21.38 -23.32 -24.90 -26.24 -27.40 -28.43 -29.34 -32.86	-6.42 -12.44 -18.46 -21.98 -24.48 -26.42 -28.00 -29.34 -30.50 -31.52 -32.44 -35.96	-12.44 -18.46 -24.48 -28.00 -30.50 -32.44 -34.02 -35.36 -36.52 -37.55 -38.46 -41.98	-18.46 -24.48 -30.50 -34.02 -36.52 -38.46 -40.04 -41.38 -42.54 -43.57 -44.48 -48.00	-21.98 -28.00 -34.02 -37.55 -40.04 -41.98 -43.57 -44.90 -46.06 -47.09 -48.00 -51.52	-24.48 -30.50 -36.52 -40.04 -42.54 -44.48 -46.06 -47.40 -48.56 -49.59 -50.50 -54.02	-26.42 -32.44 -38.46 -41.98 -44.48 -46.42 -48.00 -49.34 -50.50 -51.52 -52.44 -55.96	1500 -29.94 -35.96 -41.98 -45.50 -48.00 -49.94 -51.52 -52.86 -54.02 -55.05 -59.48	2000 -32,44 -38,46 -44,48 -48,00 -50,50 -52,44 -54,02 -55,36 -56,52 -57,55 -58,46 -61,98	-34.38 -40.40 -46.42 -49.94 -52.44 -54.38 -55.96 -57.30 -58.46 -59.48 -60.40 -63.92	-35.96 -41.98 -48.00 -51.52 -54.02 -55.96 -57.55 -58.88 -60.04 -61.07 -61.98 -65.50	-37, 30 -43, 32 -49, 34 -52, 86 -55, 36 -57, 30 -58, 88 -60, 22 -61, 38 -62, 41 -63, 32 -66, 84	-38.46 -44.48 -50.50 -54.02 -56.52 -58.46 -60.04 -61.38 -62.54 -63.57 -64.48 -68.00	-39.48 -45.50 -51.52 -55.05 -57.55 -59.48 -61.07 -62.41 -63.57 -64.50 -65.50 -69.03	-40,40 -45,42 -52,44 -55,96 -58,46 -60,40 -61,98 -63,32 -64,48 -65,50 -66,42 -69,94	-41.23 -47.25 -53.27 -56.79 -59.29 -61.23 -62.81 -64.15 -65.31 -66.33 -67.25 -70.77	-41.98 -48.00 -54.00 -57.55 -61.90 -61.90 -63.57 -64.90 -67.00 -68.00 -71.50
	1 2 3 4 5 6 7 8 9 10 15 20	-3.32 -9.34 -15.36 -18.88 -21.38 -23.32 -24.90 -26.24 -27.40 -28.43 -29.34 -32.86 -35.36	-6.42 -12.44 -18.46 -21.98 -24.48 -26.42 -28.00 -29.34 -30.50 -31.52 -32.44 -35.96 -38.46	-12.44 -18.46 -24.48 -28.00 -30.50 -32.44 -34.02 -35.36 -36.52 -37.55 -38.46 -41.98 -44.48	-18.46 -24.48 -30.50 -34.02 -36.52 -38.46 -40.04 -41.38 -42.54 -43.57 -44.48 -48.00 -50.50	-21.98 -28.00 -34.02 -37.55 -40.04 -41.98 -43.57 -44.90 -46.06 -47.09 -48.00 -51.52 -54.02	-24.48 -30.50 -36.52 -40.04 -42.54 -44.48 -46.06 -47.40 -48.56 -49.59 -50.50 -54.02 -56.52	-26.42 -32.44 -38.46 -41.98 -44.48 -46.42 -48.00 -49.34 -50.50 -51.52 -52.44 -55.96 -58.46	1500 -29.94 -35.96 -41.98 -45.50 -48.00 -49.94 -51.52 -52.86 -54.02 -55.05 -59.48 -61.98	2000 -32.44 -38.45 -44.48 -48.00 -50.50 -52.44 -54.02 -55.35 -56.52 -57.55 -58.46 -61.98	-34.38 -40.40 -46.42 -49.94 -52.44 -54.38 -55.96 -57.30 -58.46 -59.48 -60.40 -66.92 -66.42	-35.96 -41.98 -48.00 -51.52 -54.02 -55.96 -57.55 -58.88 -60.04 -61.07 -61.98 -65.50 -68.00	-37,30 -43,32 -49,34 -52,85 -55,36 -57,30 -58,88 -60,22 -61,38 -62,41 -63,32 -66,84 -69,34	-38.46 -44.48 -50.50 -54.02 -56.52 -58.45 -60.04 -61.38 -62.54 -63.57 -64.48 -68.00 -70.50	-39,48 -45,50 -51,52 -55,05 -57,55 -59,48 -61,07 -62,41 -63,57 -64,59 -65,50 -69,03 -71,52	-40,40 -46,42 -52,44 -55,96 -58,46 -60,40 -61,98 -63,32 -64,48 -65,50 -66,42 -65,94 -72,44	-41.23 -47.25 -53.27 -56.79 -59.29 -61.23 -62.81 -64.15 -65.31 -66.33 -67.25 -70.77 -73.27	-41.99 -48.00 -54.00 -57.55 -60.04 -61.99 -63.57 -64.90 -67.05 -68.00 -71.50 -74.00
	1 2 3 4 5 6 7 8 9 10	-3.32 -9.34 -15.36 -18.88 -21.38 -23.32 -24.90 -26.24 -27.40 -28.43 -29.34 -32.86	-6.42 -12.44 -18.46 -21.98 -24.48 -26.42 -28.00 -29.34 -30.50 -31.52 -32.44 -35.96	-12.44 -18.46 -24.48 -28.00 -30.50 -32.44 -34.02 -35.36 -36.52 -37.55 -38.46 -41.98	-18.46 -24.48 -30.50 -34.02 -36.52 -38.46 -40.04 -41.38 -42.54 -43.57 -44.48 -48.00	-21.98 -28.00 -34.02 -37.55 -40.04 -41.98 -43.57 -44.90 -46.06 -47.09 -48.00 -51.52	-24.48 -30.50 -36.52 -40.04 -42.54 -44.48 -46.06 -47.40 -48.56 -49.59 -50.50 -54.02	-26.42 -32.44 -38.46 -41.98 -44.48 -46.42 -48.00 -49.34 -50.50 -51.52 -52.44 -55.96	1500 -29.94 -35.96 -41.98 -45.50 -48.00 -49.94 -51.52 -52.86 -54.02 -55.05 -59.48	2000 -32,44 -38,46 -44,48 -48,00 -50,50 -52,44 -54,02 -55,36 -56,52 -57,55 -58,46 -61,98	-34.38 -40.40 -46.42 -49.94 -52.44 -54.38 -55.96 -57.30 -58.46 -59.48 -60.40 -63.92	-35.96 -41.98 -48.00 -51.52 -54.02 -55.96 -57.55 -58.88 -60.04 -61.07 -61.98 -65.50	-37, 30 -43, 32 -49, 34 -52, 86 -55, 36 -57, 30 -58, 88 -60, 22 -61, 38 -62, 41 -63, 32 -66, 84	-38.46 -44.48 -50.50 -54.02 -56.52 -58.46 -60.04 -61.38 -62.54 -63.57 -64.48 -68.00	-39.48 -45.50 -51.52 -55.05 -57.55 -59.48 -61.07 -62.41 -63.57 -64.50 -65.50 -69.03	-40,40 -45,42 -52,44 -55,96 -58,46 -60,40 -61,98 -63,32 -64,48 -65,50 -66,42 -69,94	-41.23 -47.25 -53.27 -56.79 -59.29 -61.23 -62.81 -64.15 -65.31 -66.33 -67.25 -70.77	-41.98 -48.00 -54.00 -57.55 -61.90 -61.90 -63.57 -64.90 -67.00 -68.00 -71.50

- Met-L and MED-M, Assuming Free Space Path Loss, Sensitivity and ERP
- Ideal Case, Best to Look at Trends versus Frequency
- No Terrain, Foliage, Antenna Patterns, etc.



Dr. Matt Schwartz



Name: Matthew C. Schwartz

Address: 9812 Sourwood Ct., Pensacola FL 32514

Email: mschwartz@uwf.edu Phone: 850-474-3455 (o) 850-31-8753 (m)

Education: BS, Geology, College of William and Mary, 1993

PhD, Marine Sciences (Oceanography), University of Delaware, 2002

Civilian career: Associate VP of Research Administration, University of West Florida (2018-present)

Professor/Associate/Assistant Professor, University of West Florida (2005-present)

Postdoctoral Researcher, University of Edinburgh (2002-2005) Geologist, Brown and Root Environmental (1993-1996)

Dr. Matthew Schwartz has served as a university administrator at the departmental, college, and university level. As the Associate Vice President for research administration, Dr. Schwartz is responsible for coordinating the pursuit and administration of sponsored research activities amongst 300+ faculty within five colleges at the University of West Florida (UWF). In its most recent reporting year (FY21), UWF reported total annual research expenditures exceeding \$36.8M, submitted 78 proposals seeking more than \$25M in external funding, and secured nearly \$6.9M in awards, with another \$7.6M still under review.

Dr. Schwartz is an experienced lead investigator having personally secured external funding awards totaling more than \$5M during 17 years at the University of West Florida. He has served as Principal investigator or Lead Scientists on awards from the National Science Foundation, National Park Service, and the US Department of Education. In his role as a university researcher, Dr. Schwartz authored or co-authored nine peer-reviewed publications and presented or contributed to more than a dozen poster and oral presentations across a variety of research topics related to chemical oceanography. During academic work at the University of Delaware, and professional positions at the University of Edinburgh's School of geosciences and UWF he completed multiple oceanographic cruises on US and British research vessels in the Atlantic, Pacific, and Indian Oceans. Dr. Schwartz secured the 2017 Rod Nave Award from the Southeastern Association for Science Teacher Education and has been nominated three times and was named the 2016 recipient of the UWF Hal Marcus College of Science and Engineering Faculty Excellence award. Matt is married to Dr. Allison Beauregard Schwartz and has two children, ages 8 and 11.



Rob Polumbo



Name: Robert N. Polumbo

Address: 4001 N Ocean Blvd Apt B506, Boca Raton FL 33431

Email: mumbles@twoblueaces.com

Phone: 305-803-4594

Education: BS, Biological Sciences, USAFA, 1984
MS, Aviation Sciences, Embry-Riddle, 1994

Military career: Maj Gen (ret) USAF, 1984-2017

Civilian career: First Officer (ret) American Airlines, 1999-2022

Major General Rob "Mumbles" Polumbo (Ret) transitioned from the Air Force after 33 years of service. His career culminating as the special assistant to the commander, Air Force Reserve Command, Robins Air Force Base. General Polumbo assisted and advised the commander on the daily operations of the command, consisting of approximately 70,000 citizen airmen and more than 300 aircraft among three numbered air forces, providing air, space and cyber support to combatant commands world-wide.

General Polumbo was a distinguished graduate from the U.S. Air Force Academy in 1984. During his 14 years of active duty, he served as an F-16 instructor pilot, flight examiner, weapons officer, operational test and evaluation pilot, operations officer and commander. Additionally, he served as the aide-de-camp to the Air Force Chief of Staff. He transitioned to the Air Force Reserve Command in 1997 and joined the 482nd Fighter Wing at Homestead ARB. He flew F-16's in the 93rd Fighter Squadron, served as commander of the unit and later as the 482nd Fighter Wing vice commander. His senior executive positions included mobilization assistant to numerous commands including the Air Force Warfare Center, Air Combat Command, 7%/12th Air Force and Headquarters Air Force. His areas of expertise include coalition/jointair, space and cyber operations, joint all-domain command and control, operational test and tactics development, foreign material exploitation, commercial aviation and leadership/character development.

Rob is a command pilot with more than 4,300 hours of military aviation in all blocks of the F-16 and YF-112D, including 100 hours of combat time in Southwest Asia. He also graduated from the AF Fighter Weapons Instructor Course in 1991. During his 23-year American Airline's career, he logged more than 9,800 flying hours in B727, B767 and B777 aircraft. He earned a master's degree in aviation science from Embry-Riddle University in 1994. Rob is co-author of Leadership from 30,000 feet and is planning to release a second book on leadership in Dec 2022. He is married to the former Claudia Barriga of Miami, FL and has two sons. Jake is a fighter pilot in the AF and Zach is a senior at the Naval Academy.

Current Executive Positions:

- · Senior Consultant, Two Blue Aces consulting group
- · Executive Associate, South Florida Defense Alliance
- Executive Assistant, The 22 Project, non-profit 501c3



Jake Polumbo



Name: H.D. Polumbo Jr.

Address: 114 Wyndham Drive, Winter Haven Florida, 33884

Email: jake@twoblueaces.com Phone: 863 223-2554

Education: BS, Engineering Sciences, USAFA, 1981 MS, Aviation Sciences, Embry-Riddle, 1992 Military career: Maj Gen (ret) USAF, 1981-2015

Civilian career: Founding Partner and Senior Consultant, Two Blue Aces Consulting

Major General H.D. "Jake" Polumbo (Ret) is a founding partner and senior consultant for Two Blue Aces, LLC, a leadership firm that specializes in strategic reviews, business plan development, leadership training and mentoring. His primary focus is on the defense and aerospace sectors, with an emphasis on leadership and business networking.

In 2015, after 34 years of service, Jake retired from the Air Force as the commander of the Ninth Air Force in South Carolina, comprising eight active-duty wings in the southeastern United States with more than 450 aircraft and over 29,000 active-duty and civilian personnel.

He entered active duty as a graduate of the U.S. Air Force Academy in 1981 and commanded at the squadron, group, and three times at the wing level. He served in strategic planning positions in Europe as the director of strategy and plans at U.S. Africa Command and in the Pentagon as the assistant deputy director for Global Operations on the Joint Staff. General Polumbo also served as a task force commander in Afghanistan in 2012. He attended the Federal Executive Institute and was a Senior Fellow at Georgetown University's Institute for the Study of Diplomacy.

A decorated command pilot, Jake logged over three thousand flying hours in all models of the F-16 and holds the distinction as the first and only U.S. Air Force general officer to fly the U-2S in combat, completing twenty-one missions in Operations Enduring Freedom and Iraqi Freedom.

Jake is the Past Chair of the Board of the Central Florida Development Council and serves as an advisor for aviation programs around central Florida. He is active in the local General Aviation community, is a Certified Flight Instructor - Instrument (CFII) in single and multi-engine land aircraft as well as an instructor pilot in single engine seaplanes. Jake and his wife Sandra, a Florida native, have been married for forty-one years. Their oldest son, Chad, is a Lieutenant Colonel in the U.S. Air Force with his wife Julie, and they have two sons, Nolan and Garrett. Jake and Sandra's youngest son. Erik, lives in Virginia with his wife Alexine, where they run two very successful businesses together.

Current Executive Positions:

- Senior Consultant, Two Blue Aces Consulting Group
- Board Member, Central Florida Development Council



Jim Philpitt



Name: James Byrd Philpitt

Address 1: 8628 Glyborne Court, Orlando FL 32825 Address 2: 3025 West Napoleon Avenue, Tampa FL 33611

Email: jphilpitt@hotmail.com

Phone (O): 813-826-2416 Phone (M): 407-493-7611

acation: BS, Government & Public Administration, Florida State University, 1977

MPA, Public Administration, University of West Florida, 1988

MA, National Security & Strategic Studies, U.S. Naval War College, 1989 Graduate, College of Naval Command & Staff, U.S. Naval War College, 1989

Graduate, U.S. Air Force Air War College, 1996

Military career: Captain, U.S. Navy (Ret), 1977-2007

Civilian career:

2021-Present: Strategic Engagement Officer, U.S. Special Operations Command J59 Division, MacDill AFB FL

2018-2021: Site Lead/Task Lead, USAF-USN Joint Tactical Aviation Synthetic Training Analysis of Alternatives,

Air Force Agency for Modeling & Simulation and Naval Air Warfare Center Orlando FL

2008-2018: Senior Planner; Deputy Director, Joint Exercise Control Group; and

Deputy Director, Exercise NEPTUNE FALCON, U.S. Central Command J7 Directorate, MacDill AFB FL

Captain Jim "Byrdman" Philpitt retired from the U.S. Navy in October 2007 with over 30 years of service, to include the Cold War and Operations Southern Watch, Enduring Freedom, and Iraqi Freedom. Compressing a 4-year college degree into just over 2 ½ years, he reported to NAS Pensacola less than 2 weeks after graduating from FSU. As a career Naval Flight Officer, he has logged over 3,600 flight hours in various fighter, strike, and reconnaissance aircraft with multiple deployments in the Atlantic and Pacific Fleets. His qualifications include NATOPS Flight Instructor, Weapons and Tactics Instructor, Air Operations Center Director, and Joint Qualified Officer. His operational assignments comprise multiple aviation syndrons, air wings, and staff duty at Joint Task Force Southwest Asia, U.S. Naval Forces Central Command/U.S. 5th Fleet, and Chief of Current Operations and Director of the Joint Operations Center at Headquarters, U.S. Central Command the day of and following the Al-Qaeda attacks of 11 Sep 2001. He has also held aviation major command as Commodore, Tactical Air Control Group ONE.

Joining the USCENTCOM Exercises & Training Directorate in 2008, he held roles in USCENTCOM's INTERNAL LOOK exercise series, the CICS Crisis Management Exercise (CMX) and IRON CRUCIBLE series, and assignment as Deputy Director of NEPTUNE FALCON, a JCS-directed, USCENTCOM sponsored, two-week live-fly air and space exercise involving over 150 combat aircraft, conducted annually at Nellis AFB, Nevada, NAS Fallon, Nevada, and adjacent ranges.

In December 2018, he was recruited as Site Lead/Task Lead for the USAF-USN Joint TACAIR Synthetic Training Analysis of Alternatives (JTST AoA), focused on virtual and synthetic-inject-to-live training and readiness alternatives for 5th Generation and Generation 4.5 fighter aircraft and electronic attack aircraft. This effort was deemed "Sufficient" (the highest rating) by the Office of the Secretary of Defense, Cost Assessment and Program Evaluation (OSD CAPE).

Upon completion of the JTST AOA, he was recruited again to the U.S. Special Operations Command Plans and Policy Directorate where he currently works Strategic Engagement issues for the J59 Concept Development and Integration Division.

A graduate of LEADERSHIP ORLANDO, he has also authored numerous articles appearing in publications such as Aviation Week & Space Technology, U.S. Naval Institute Proceedings, Navy Times, Airport Business, MIG SWEEP, Wings of Gold, USA Today, and the Orlando Sentinel, as well as co-authored the Joint Officer Handbook, a Joint Staff J7 publication still in use today. An adjunct faculty member to both Embry-Riddle Aeronautical University and the University of Tampa, his professional affiliations include The Tailhook Association, the Association of Naval Aviation, the Naval Aviation Museum Foundation, the Red River Valley Fighter Pilots Association, and an Executive Emeritus member of the American Association of Airport Executives. He also serves without compensation on the Board of Directors of the Tampa Bay Defense Alliance.

Captain Philpitt is married to the former Victoria "Vickie" Quinlan of Lakehurst, New Jersey and they maintain residences in both Orlando and Tampa.



David Lowe

Name: David E. Lowe

Address: 966 Timberview Road, Clermont, FL 34715

Email: dlowe@2circleinc.com Phone: 240-808-5003

Education: BS, Engineering, US Naval Academy, 1990

MA, Nation Security & Strategic Studies, US Naval War College, 2005

Military career: LCDR, USNR, 1990-2010

Civilian career: Senior Research Engineer, Georgia Tech Research Institute, 2010-2016 VP, Studies & Analysis Division, 2 Circle, Inc. Consulting, 2016-2022

David 'Streaker' Lowe is a retired Naval Aviator, logging over 3500 hours in the F-14, F/A-18, and UC-12B aircraft. He distinguished himself by being one of two Naval Aviators to ever be designated a Strike Fighter Tactics Instructor (SFTI - TOPGUN graduate) and a Staff Landing Signals Officer (CAG Paddles) upon his retirement in 2010. Lowe's military career was also highlighted by tours as the Reserve Program Director at Naval Air Reserve (NAR) Atlanta, as well as Brigade Electronic Warfare Officer (EWO) for CJSOTF-Arabian Peninsula in Ballad, Iraq and Director of Operations for Joint CREW Composite Squadron – ONE (JCCS-1) on Camp Victory in Baghdad, Iraq - both assignments as part of the radio-controlled IED fight in OPERATION IRAQI FREEDOM from 2007-2008. Lowe's military awards include the Bronze Star, Meritorious Service Metal, and multiple Strike/Flight Air Medals, among others.

Following retirement in 2010, Lowe's civilian career began at the Electronic Systems Laboratory (ELSYS), Georgia Tech Research Institute (GTRI), as a Senior Research Engineer. During his six years on the faculty at Georgia Tech, Lowe was the Navy Business Development Lead for ELSYS, creating the business case and leading the effort to open a field office for GTRI in Lexington Park, MD to support Naval Air Systems Command and the Naval Aviation Enterprise. During that time, Lowe was the Principal Investigator (PI) on multiple projects to include the integration of Aircraft Survivability Equipment (IASE) on the MV-22 Osprey and an embedded EW training capability for the MH-60 Weapons School (SEAWOLF) at NAWDC in Fallon, NV; as well as an operational subject matter expert (SME) for advanced EW technologies.

In 2016, Lowe left academia to work as an operational SME for 2 Circle, Inc. Assignments included Senior Warfare Analyst for the Training Analysis Project (TAP – Strike/Fighter data collection and training analysis), as well as the Mission Engineering Lead for the Long Range Anti-Ship Missile (LRASM) program and other USN/USAF long range fires technologies. More recently, Lowe has led analyses for the Joint TACAIR Synthetic Training (JTST) Analysis of Alternatives and the OSD P&R-led Joint EW Live/Virtual/Constructive (LVC) Training Project. Lowe is currently the VP, Studies & Analysis Division, Warfare Solutions Department, at 2 Circle, Inc.

Lowe has been married to the former Wendy Rae Blackwell for over 30 years. They have two adult sons, Nathaniel and Joshua. Nathaniel is pursuing a career as a professional baseball player with the Texas Rangers and Joshua is pursuing a career as a professional baseball player with the Tampa Bay Rays.



Lennie Coleman



Name: Leonard Thomas Coleman - "Lennie"

Address: 4844 Hillsdale Court, Colorado Springs, CO 80918

Email: lcoleman@scires.com

Phone: 719-205-4107

EDUCATION: BS Human Factors Engineering, USAFA, CO

MS Strategic Studies, Air University, AL.

Masters Public Administration, Auburn University, AL

Military Career: Col (Ret) 1981-2006

Civilian Career: Scientific Research Corporation, Vice President

<u>Colonel (Ret) Coleman (Lennie)</u>, is a native of Savannah, Georgia and has extensive experience in operational testing and integration programs across DOD. He had led and participated in many test programs in areas including in Integrated Air and Missile Defense, employment of advance 5th generation platforms and advanced threat development and employment. He brings over 40 years of testing and operational expertise to every project.

Mr. Coleman was commissioned in the Air Force and served over 25 years. He is a "distinguished graduate" of Undergraduate Pilot Training and has over 3400 hours in Air Force aircraft including the F-16 and F15 fighters. He has held numerous Command and staff positions to include the command of a Basic Training Squadron at Lackland AFB, TX and an F-16 Fighter Squadron at Moody AFB, GA. In 2002, Mr. Coleman served as the Director of Operations at NORAD and provided the foundation for the stand-up of USNORTHCOM. In this role, he was responsible for all detailed test planning and program implementation of the National Capital Region Integrated Air Defense System at direction of the Secretary of Defense. Provided liaison with both federal and state agencies for execution of constantly changing Homeland defense and DoD testing procedures for new security measures following 9/11. Mr. Coleman was honored to fly the "Right Wing" #3 aircraft for the USAF Thunderbirds during the 1991 and 1992 demonstration seasons in the F-16 aircraft. During this tour he flew in over 160 air demonstrations across the Continental United States, in Alaska, Hawaii, Europe and South America. While in the AF he served as the Director of the NORAD Operations Branch following the attacks of 9/11 and was instrumental in the activation and standup of USNORTHCOM.

Mr. Coleman was promoted to Colonel in 2002 and retired from the military in 2006. Following retirement, Mr. Coleman led the several Joint Test programs including Joint Air Defense Operations – Homeland and tested the concepts employed in the National Capital Region across various possible Homeland locations. He took his current position with Scientific Research Corporation as the Vice President, Operational Testing in 2010.



Rick Miller



Name: Rick Miller

Address: PO Box 298368, Pembroke Pines, FL 33029 Email: rmiller@pharosmissioncritical.com

Phone: 786-202-1531

Education: PhD, Political Economy (degree in progress), Catholic University

MA, International Affairs, Catholic University

MS, National Security Affairs, National War College Master's Diploma, Command & Staff College, Naval War College

BS, Ocean Engineering, United States Naval Academy

Military career: Captain, U.S. Navy (retired) 1989 - 2015

Civilian career: VP, Nautical & Safety Operations, Carnival Cruise Line (2014 - 2018)

Founder/CEO Pharos Mission Critical Solutions (2018 – present)

CEO MobileDOCK USA (2018 - present)

CEO Security Clearance Pathway (2020 - present)

Rick Miller leads Pharos Mission Critical Solutions, a combined consultancy and technology integration practice and MobileDOCK-USA a ground logistics optimization solution. He also serves part-time as a Deputy Director at the Atlantic Council's Adrienne Arsht-Rockefeller Foundation Resilience Center managing their Resilience Hubs Networking Strategy project for Miami-Dade County.

As a former cruise line operations executive, he had responsibility for the largest, single global fleet of ships in the industry leading over a dozen functional shore-based teams and thousands of shipboard mariners. Additionally, he personally led the design, development, and operation of the largest and most advanced Fleet Operations Center in the commercial maritime industry.

Rick's cruise line experience followed a successful career in the U.S. Navy including command at sea, with numerous shipboard and staff assignments across a number of specialties. Operationally, he participated in Operations Desert Shield/Desert Storm, Operating Enduring Freedom, counter-piracy and counter-terrorism operations, and dozens of contingency operations in Europe and the Balkans, Africa, the Middle East, Central and South Asia, the Caribbean and Latin America.

Ashore, he led current operations for U.S. Southern Command. A proven specialist in strategic planning, international relations & diplomacy, and financial management, he served multiple tours in the Pentagon as part of both the Navy and Joint Staffs directing and planning Navy's programs and budgets as well as guiding development of defense appropriations to support wartime activities. He served on the personal staffs of both the Vice Chief of Naval Operations and Chief of Naval Operations and worked special support on several issues for the Chairman of the Joint Chiefs of Staff. He also spent a year as the Navy's Federal Executive Fellow at the Institute for the Study of Conflict, Ideology and Policy in Boston.

Rick is a graduate of the U.S. Naval Academy, distinguished graduate of both the U.S. Naval War College and U.S. National War College and the Catholic University of America with undergraduate and graduate degrees include engineering, international affairs, and strategic planning disciplines, as well as doctoral work in political economy. He is the author of over 30 articles, professional papers, and the book Funding Extended Conflicts, a history of U.S. war financing. Rick was the winner of the Naval War College's B. Franklin Reinauer Defense Economics Prize and the U.S. Naval Institute's Naval History Essay Prize. Active in the South Florida community, Rick is on the Board of Directors of the South Dade Economic Development Council and is Executive Director of the South Florida Defense Alliance. Additionally, he serves as Vice Chair of the state-wide Florida Defense Alliance.