

# Visual Awareness Technologies and Consulting



A Powerful Training Solution for Military / Civilian Integration and Interoperability

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Visual Awareness Technologies and Consulting  
3611 W Swann Tampa, FL 33609, Phone: 813.207.5055  
8a Woman-Owned SDB  
[www.vatcinc.com](http://www.vatcinc.com)



# Purpose

- **This presentation is designed to:**
  - Explain who VATC is and what we offer
  - Describe VATC's support to the AFSOC EMERALD WARRIOR Exercise
  - Describe what VATC is accomplishing in the Irregular Warfare Training Environment through the Joint Southeast Training, Research, & Integration Capability (JSTRIC) within the Florida Panhandle
  - Describe the local impact and benefits
  - Looking forward



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# About VATC

- **Incorporated in 2003**
  - Sara Moola (President) – Background in Geospatial Information Systems & International Development
  - Mike Vaughn (COO) – Retired Air Force Special Operations
  - Jim Kotlyn (SVP of Operations) – Retired Navy SEAL
  - Jeff Mason (Director of Training)- Retired Army Special Forces
- **Headquarters in Tampa, FL with field locations across the United States, Korea, and Germany**
  - Other Florida offices include
    - Shalimar Florida
    - Altha Florida
- **Received 8(a) Woman-owned SDB certification in January 2008**



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# VATC Strengths

## VATC Experience

Support of all DoD Services, Inter-Agency, and NGO branches and functional areas



## A Well-Rounded Team

VATC possesses tactical through strategic level knowledge, experience, and technical expertise in support of Joint Conventional & Special Operations training and exercises.

- 90% of VATC personnel are former military and 70% of employees have extensive Special Operations Forces (SOF) backgrounds
- Joint Task Force level exercise design experience
- Operational level Joint Command and Control Staff experience
- Current / relevant Combat Tours

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# Expertise & Support

**VATC can provide Subject Matter Expertise (SMEs) supporting your requirements in the following:**



## Relevant Subject Matter Expertise

- Infil / Exfil (RW / FW)
- Irregular Warfare Scenarios
- Traditional Small Arms Range Operations
- Quick Reaction Force OPS
- Direct Action
- Special Reconnaissance
- Convoy Security
- IED (Reporting / Reaction)
- Sensitive Site Exploitation
- Airborne Operations
- Advanced Force Operations
- Cordon
- Area Assessment
- Develop / Implement Fire Base Act
- Force Protection (Security Plan Development)
- Riverine Operations
- Medical Training Scenarios
- Counter Terrorism Operations
- Civil Affairs Operations
- Maritime Operations
- Over the Beach Operations
- Hydrographic Reconnaissance Operations
- Small Boat Operations
- Near Shore Reconnaissance Operations
- Sniper
- Combat Swimmer Operations

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# Proven Training Record

As the **Prime Contractor** supporting the EMERALD WARRIOR Exercise Series, **VATC** is uniquely qualified to assist our customers in all facets of **full spectrum integrated training**, exercise design and execution

- Exercise EMERALD WARRIOR (EW) is a Joint military and interagency (IA) exercise designed to better prepare our military forces to prosecute the global war on terrorism and assist our interagency partners in the protection of the United States from enemies foreign and domestic.
- EW has grown from roughly 200 participants in 2004 to over 1500 in 2012 from multiple military bases and installations across various states.
- Through our support of this exercise, VATC has earned the trust of local leaders and populace by conducting training events in a safe, professional manner. This has allowed our cadre the ability to execute and support multiple high visibility RUTs and individual and multilateral training events ISO SOF, GPF, IA, and NGO requirements.
- **EW-12 was heralded as the largest geographic RUT ever conducted.**
- **VATC success in facilitating EW in the Panhandle has lead to VATC being awarded an additional contract through USSOCOM to establish a similar capability within four states in the SW United States.**

CJTFFEX 2004	Emerald Warrior 2007	Emerald Warrior 2010	Emerald Warrior 2011	Emerald Warrior 2012
<ul style="list-style-type: none"> <li>▪ 75 Personnel (RUT)</li> <li>▪ British SAS</li> <li>▪ NSW</li> </ul>	<ul style="list-style-type: none"> <li>▪ 15 Personnel (RUT)</li> <li>▪ USASOC</li> </ul>	<ul style="list-style-type: none"> <li>▪ Over 200 Personnel (RUT)</li> <li>▪ USASOC</li> <li>▪ AFSOC</li> <li>▪ FBI SSE MTT</li> <li>▪ DSS</li> <li>▪ Air Force Communications Squadron</li> <li>▪ Navy CA Element</li> </ul>	<ul style="list-style-type: none"> <li>▪ Over 200 Personnel (RUT)</li> <li>▪ USASOC</li> <li>▪ AFSOC</li> <li>▪ DEA FAST</li> <li>▪ DSS</li> <li>▪ Air Force Communications Squadron</li> <li>▪ Navy CA Element</li> </ul>	<ul style="list-style-type: none"> <li>▪ Over 250 Personnel (RUT)</li> <li>▪ USASOC</li> <li>▪ AFSOC</li> <li>▪ MARSOC</li> <li>▪ DSS</li> <li>▪ Air Force Communications Squadron</li> <li>▪ Navy CA Element</li> </ul>

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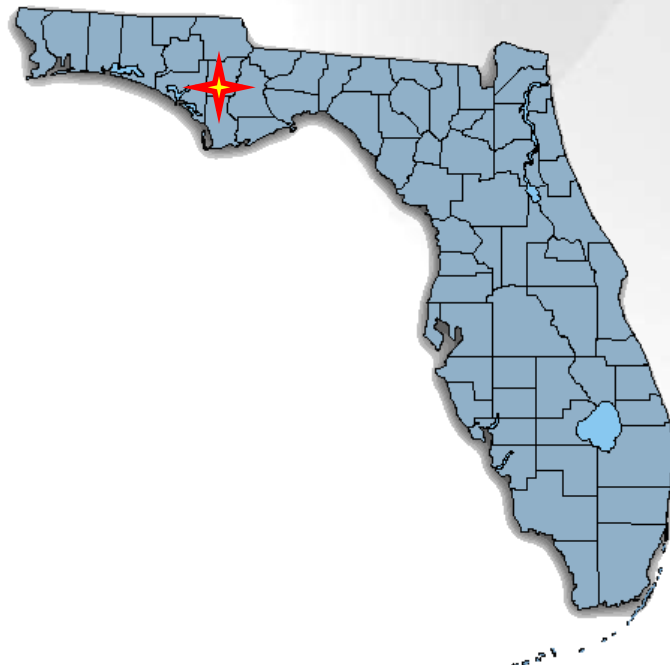


# Joint Southeast Training Research & Integration Capability (JSTRIC) Training Environment Overview



Located in North West Florida, the JSTRIC is comprised of a eight county operational environment that was constructed through the coordination and cooperation of local leaders and civilian land owners. From live fire CQB, to Irregular Warfare training scenarios the JSTRIC provides a comprehensive training environment that address a wide array of individual and collective training requirements for:

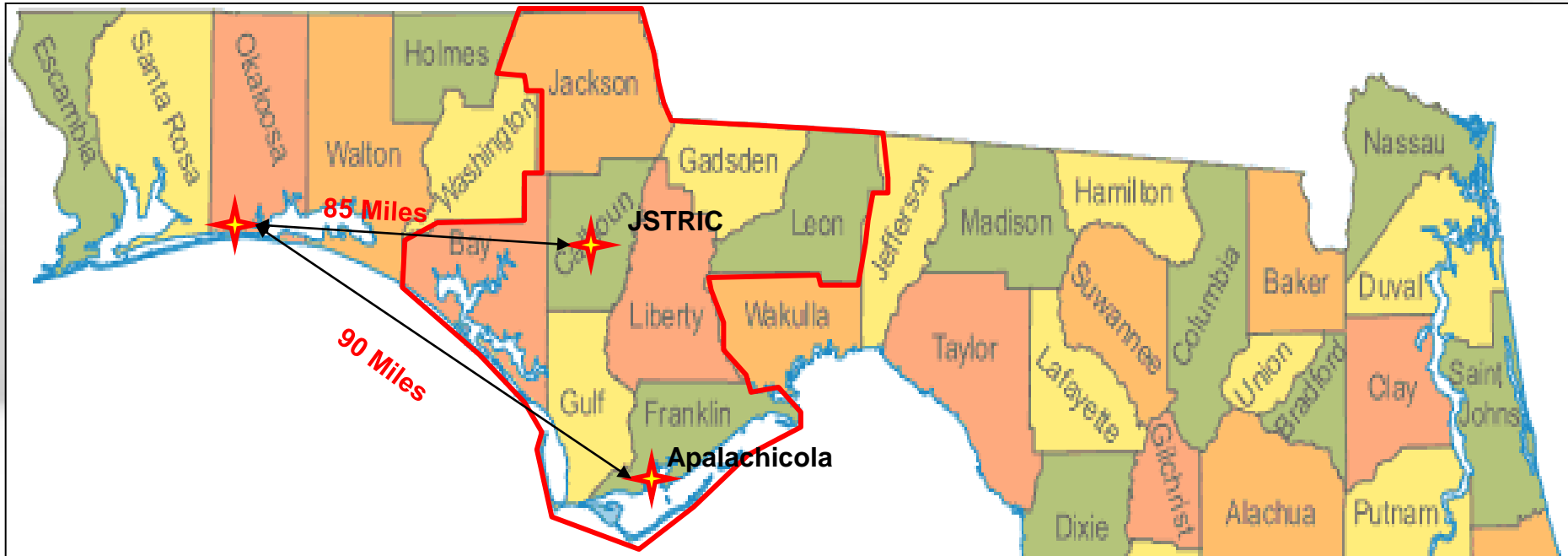
- Department of Defense
  - Special Operations Forces
  - General Purpose Forces
- Inter-Agency
- Federal, State and Local Law Enforcement
- Non-Governmental Organizations
- Private Corporations



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# Operational Environment



Full Support of City, County and State	Conducive to creating a Irregular Warfare Environment	Proximity to organic SOF Assets
<ul style="list-style-type: none"> <li>▪ Local law enforcement agencies have provided role players and assets to scenarios, and regularly cordon targets</li> <li>▪ Local civilians take pride in knowing they are supporting the military prepare to go in harm's way.</li> <li>▪ Mutially beneficial (VATC and Local Communities)</li> </ul>	<ul style="list-style-type: none"> <li>▪ A realistic environment transitioning from Urban to Rural.</li> <li>▪ A social structure that mimics an IW environment scenario (living, breathing dynamic scenario environment)</li> <li>▪ Availability of blue and brown water training areas</li> </ul>	<ul style="list-style-type: none"> <li>▪ Near:                             <ul style="list-style-type: none"> <li>▪ AFSOC</li> <li>▪ HAVE ACE Program</li> <li>▪ 20<sup>th</sup> SFG(A)</li> <li>▪ Special Boat Unit – 22</li> <li>▪ 7<sup>th</sup> SFG(A)</li> <li>▪ 1<sup>st</sup> and 3<sup>rd</sup> Ranger Bn</li> <li>▪ 3<sup>rd</sup> Bn SOAR(A)</li> </ul> </li> <li>▪ Close enough to mitigate deployment of support elements</li> <li>▪ Realistic distances which allows pilots to exercise full mission profile planning</li> </ul>



# Training Support Examples



**Helicopter Assault**  
**Recover 3 Hostages being held by**  
**terrorists**  
**“Blountstown”**



**Contact Drill**  
**“Apalachicola River”**



**Explosive Breach**  
**Capture High Value Ind**  
**“Carrabelle”**



**Key Leader Engagement**  
**45 locals Role Played Villagers**  
**“Wallwood BSC”**



**FRIES Training**  
**“Tallahassee Reg Airport”**



**Civil Affairs Dam Project**  
**“C.H. Corn Hydroelectric Plant”**



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# Military Training Statistics

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- **1,000 + personnel trained within the JSTRIC RUT training environment**
  - Flawless Safety Record
- **Ground units included:**
  - 10<sup>th</sup> SFG , 7<sup>th</sup> SFG, 3<sup>rd</sup> SFG
  - MARSOC
  - 720<sup>th</sup> STS
  - 206<sup>th</sup> Maritime Civil Affairs Team (Navy)
  - 1<sup>st</sup> Combat Camera (Air Force)
  - 3<sup>rd</sup> Riverine Squadron
  - AFSOC' s Special Operations Critical Care Evacuation Team (SOC CET)
  - 290<sup>th</sup> Joint Communications Support Element (JCSE)
  - DEA FAST
  - State Department Defense Security Services
- **Units have used the venue as a certification event for new units, and as a pre-deployment train up for Operation Enduring Freedom and New Dawn**



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# Military – Civilian Interaction and Contribution Statistics

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- **8- Number of Florida Counties used during execution of Realistic Urban Training (RUT) event (largest geographic RUT conducted by USSOCOM)**
- **Estimated financial benefit to the local economy is \$1,000,000.00**
  - Full and part time employment
  - Local contracting;
    - General labor
    - Subject matter expertise
    - Catering
    - Construction
    - Local area property leasing agreements Role players
    - Lodging
    - Ranges
    - Targets
  - Rental vehicles
  - Props
  - Fuel
- **2/3 of the training budget goes back into the local economy**
- **Each event produces 50 (+/-) part time jobs**
- **All training event are coordinated and approved by local authorities (County/City Commissioners and Law Enforcement Agencies)**



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# Training Facilities



**600 Meter Known Distance**



**Multi Story Shoot House**



**Afghan MOUT Site**



**25 Meter Range**



**100 Meter Range**



**Multi Media Classrooms**



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# Training Services



**On Site Catering**



**Lodging for up to 78 paxs**



**OPFOR/SITFOR**



**Pyrotechnics**



**Technical Props**



**Moulage**



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# Looking Forward

- **National Guard Bureau Integration Exercises**
- **7<sup>th</sup> Special Forces Group now in the Panhandle**
- **Coast Guard and Home Land Security Integration Exercises**
- **Incorporation of Disaster Management Staff and Exercise Programs**





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# Office of Energy

## Florida Defense Task Force



May 16, 2012

FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES  
COMMISSIONER ADAM H. PUTNAM





**WHO:** Patrick Sheehan, Executive Director of the Office of Energy

**WHAT:** Florida Defense Task Force Meeting

**WHERE:** Governor's Large Conference Room

**WHEN:** May 16, 2012

**WHY:** To begin collaboration with Florida's military installations on energy efficiency, and security through energy independence.





# DoD Mandates for Installations

- ▶ Reduce energy use by 30% by 2015 (from 2003 baseline).
- ▶ 25% of electricity by 2025 from renewable sources.
- ▶ Reduce non-tactical vehicle fuel consumption annually by 20%.
- ▶ Increase non-petroleum use by 10% annually.

*“We still need the energy and the power to propel our military, our economy, our world -- but we need to do it in a cleaner way.”*

- Sec. Steven Chu, July 2011



# Commissioner Putnam's Energy Priorities

- ▶ Our Energy Policy Rests on Three Pillars:
  - Secure, Reliable and Diverse Energy Supply, Production, and Delivery*
- ▶ Balances Today's Realities with Tomorrow's Needs
- ▶ Encourages Development of Florida Technologies
- ▶ Promotes Energy Efficiency & Conservation
- ▶ Market Driven - Least Possible Customer Impact





# Functions & Responsibilities

- ▶ Coordinate Federal & State energy programs & Administer Grants.
  
- ▶ Produce Annual Energy Report.
  - Baseline assessment of Florida's energy resources.
  - Improvements for Energy Efficiency & Conservation.
  - State Agency implementation of State Energy Policy.
  
- ▶ Provide Analysis and Prepare Recommendations.
  - Proposed Federal energy programs.
  - Long range energy supply and demand scenarios (economic growth, renewables development, alternative strategies - 5-10-20 years).

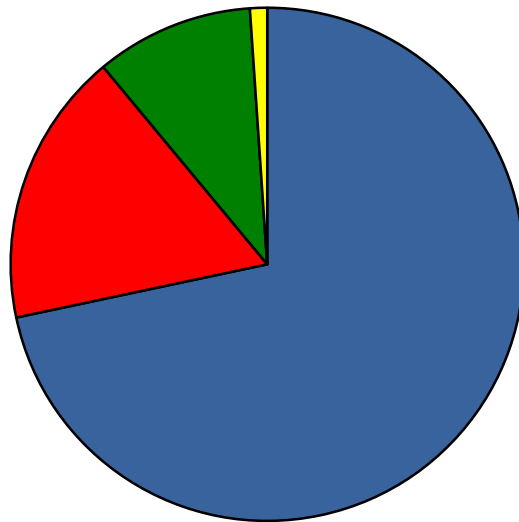


# Responsibilities (Cont.)

- ▶ Promote and advocate for the development and use of renewable energy resources and energy efficiency technologies.
- ▶ Promote energy efficiency and conservation measures in all energy use sectors.
- ▶ Serve as State clearing house for all energy information (academia, public and private sectors).
- ▶ Provide assistance to other state agencies, counties, municipalities, and regional planning agencies to further and promote their energy planning activities.



# 2009–2012 Federal American Recovery and Reinvestment Act (ARRA)



- State Energy Program - \$126,089,000
- Energy Efficiency & Conservation Block Grant - \$30,401,600
- Energy Efficient Appliance Rebate - \$17,585,466
- Energy Assurance Grant - \$1,881,676

TOTAL FUNDING.....\$175,957,276

# Energy Bill Legislation (HB 7117)

1. Requires utilities to report the amount of renewable energy it plans to produce or purchase in their 10-year site plan.
2. Reinstated several tax credits for infrastructure investments and production of biofuels and renewable energy that expired in 2010. Requires DACS to report annually the amount of tax credits used.
3. Allows for local governments to provide loans, grants or rebates for energy efficiency improvements to residential or commercial properties if the ordinance is approved by referendum.
4. Repealed the Renewable Portfolio Standard.
5. **Changed the categorization of electric vehicle (EV) charging stations, keeping them from being considered a retail sale of electricity (and treated as a small utility).**





# Office of Energy - We Stand Ready

## ▶ Project Development

- OOE looked at ways to incorporate military installations into contingency plans to repurpose unspent ARRA dollars. (December 2011)
- OOE solicited involvement of Navy Region SE to partner with Saft America, Florida Energy Systems Consortium on an energy storage demonstration RFI from Sandia National Labs. (April 2012)



# Office of Energy – Take Aways

- ▶ Committed Partner
  - OOE is committed to working with our military constituency.
  
- ▶ Technical Assistance
  - Project Development and Public/Private Partnerships.
  - Base staff and OOE staff will meet and develop.
  
- ▶ Communication and Outreach
  - Using venues like the Florida Energy Summit and documents such as OOE's Annual Report to describe the opportunities and impacts.

*<http://www.freshfromflorida.com/offices/energy/index.html>*





# 2<sup>nd</sup> Annual Florida Energy Summit

August 2012

Rosen Shingle Creek

Orlando, Florida

*[www.floridaenergysummit.com](http://www.floridaenergysummit.com)*

*[energy@freshfromflorida.com](mailto:energy@freshfromflorida.com)*

*(Coming Soon )*





Contact Information:

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Office of Energy

FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES

COMMISSIONER ADAM H. PUTNAM





# Space Florida Overview & Florida's UAS Test Site Effort

Jim Kuzma  
Chief Operating Officer  
Space Florida

Florida Defense Task Force  
16 May 2012



Launch Systems and Support



# Space Florida's Structure & Role:

- Public Corporation & Independent Special District
- Infrastructure Role ... Largely defined by Spaceport & Aerospace Industry Needs
- Economic Development Role ... For the Space & related - Aviation/Aerospace Industry
- Investment and Financing Role ... For Spaceport and prospective projects



ISS and Human Life Sciences





# Vision 2020 ... .. Strategies for Growth

*“Florida ... Positioned as a Global Leader  
With Premier Aerospace Industry Presence”*

**Goal: “3x” Growth by 2020**

**Implementation Strategies:**

- **Diversification of Industry**  
Statewide ... .. 10 target sectors.
- **Vertical Integration of the Supply Chain**  
Depth & Breadth of Aerospace Supplier Base.
- **Targeted Infrastructure Investment**



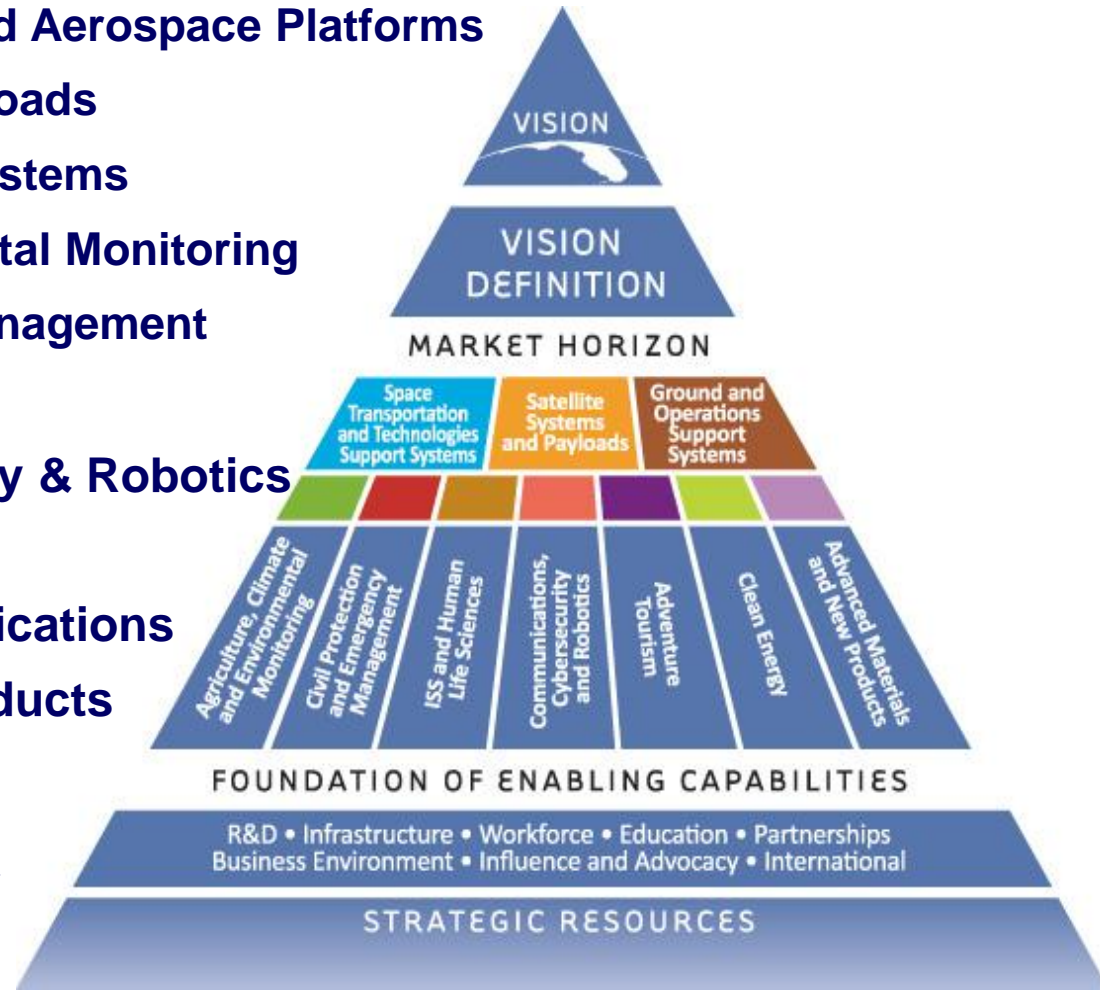
Ground and Operations  
Support Systems



# “VISION” FOCUS

## ... 10 TARGET MARKET SECTORS:

- Space Transportation & Advanced Aerospace Platforms
- Satellite Systems & Science Payloads
- Ground & Operations Support Systems
- Agriculture, Climate /Environmental Monitoring
- Civil Protection & Emergency Management
- ISS & Human Life Sciences
- Communications, CyberSecurity & Robotics
- Adventure Tourism
- Clean / Alternative Energy Applications
- Advanced Materials & New Products



***DIVERSIFICATION IS  
FLORIDA'S AEROSPACE  
FUTURE!***



Adventure Tourism



# Space/Aviation/Aerospace

## ... .. An Industry in Transition!

- Global Competitiveness / Technology Leveling
- Tightening National Budgets for New Initiatives
- Continued Industry Consolidations / Partnering
- Significantly Increased Integration of Space  
with other Platforms / Technologies
- New Companies, New Applications, New Markets



Launch Systems and Support





# ***New Applications Growth Areas***

Potential for growth in Florida's aerospace sector has never been better:

- Commercial & Civil Aerospace Programs
- UAVs, ISR Technologies and CYBER
- Microgravity R&D / LEO Exploitation
- Small Satellites & Other New Space Systems
- Clean Energy & Advanced Materials
- New Space / Defense Technology Applications

... .. And Much More ... Next-Gen Systems



Launch Systems and Support





## Florida UAS Initiative





# FL UAS Initiative

Develop an Unmanned Aerial Systems (UAS) Test and Operational Range throughout the State of Florida leveraging existing assets in partnership with civil and military government agencies, academia and industry.

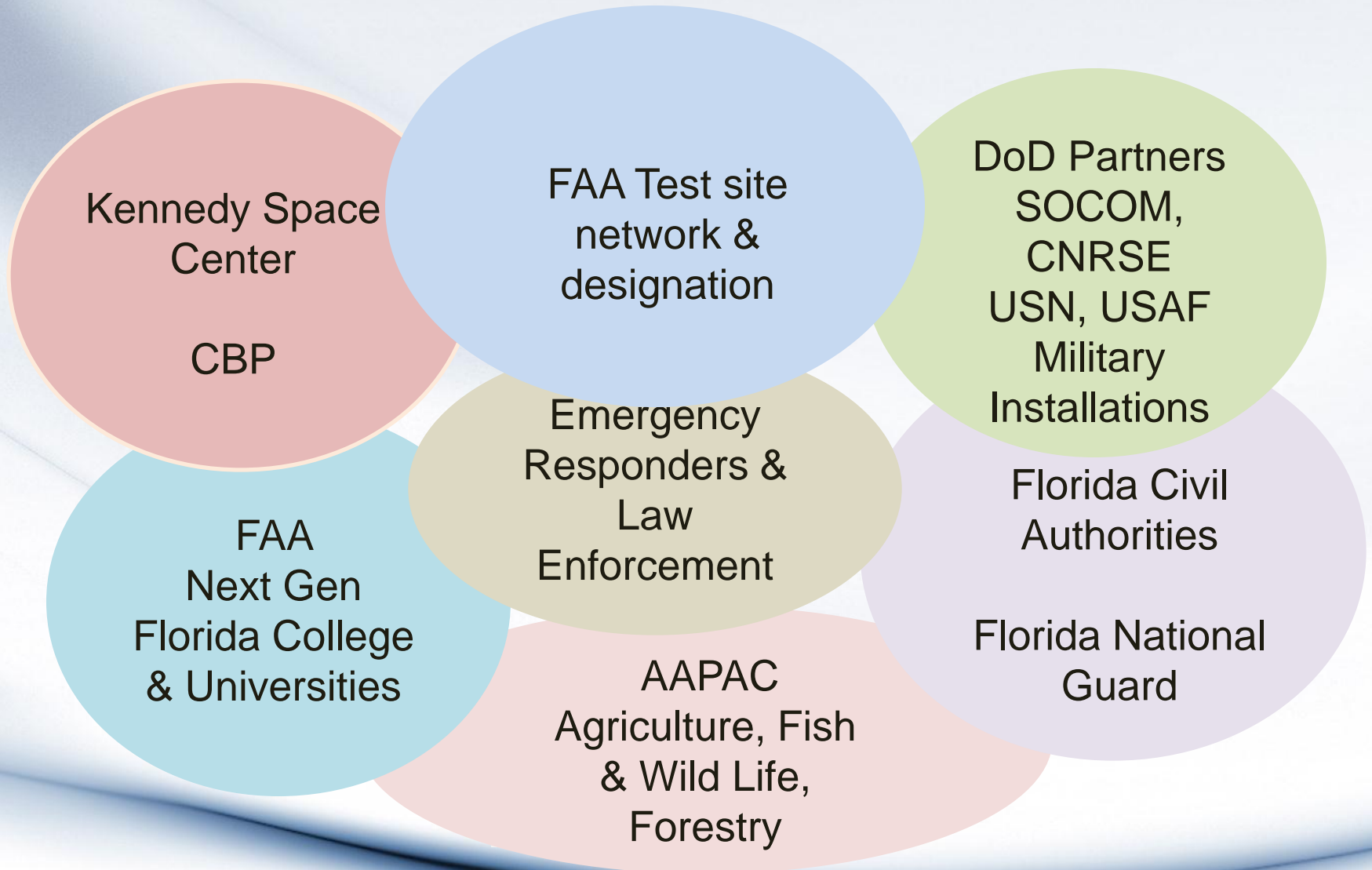






# Florida's UAS Test Site Partnerships Associated & Leveraged Efforts

FAA Test Site Designation provides the focal point ... but not the end state





# Effort Partnership & Support

- FAA Test Site Criteria
  - Submit to FAA
  - Forward for consolidated submission
- Ensure “Regional” capabilities captured
- Ensure ops captured
- Support operational planning
- Standards Committees
  - Identify & Participate in Process & Standards development & verification
- Engage FL Delegation – require FAA transparency in test site criteria and site selection process

**Submitted 4 May**



# Schedule & Key Events

## **FAA Test Site Key Events**

- 6 Mar Request for Test Site Criteria**
- 10 Apr FAA Webinar #1**
- 11 Apr FAA Webinar #2**
- 8 May RFC Test Site Criteria due**
- July Test Site RFP issued**
- Sep/Oct RFP submissions due**
- Nov/Dec Test Site Selection expected**

## **FL UAS near term timeline**

- 4 May FL UAS RFC submitted**
  - Draft out for comment (28 April)**
  - RFC draft telcon review (2 May)**
- 9 May SF BoD Approval**
- 15 May Asset inventory due**
- 16 May Defense Task Force**
- 17 May Draft Committee Charters Out**
- 21 May Committees formed**
- 10 Jun COAs submitted**
- Aug Proof of Concept Demo**



# What We Now Know

- **Florida RFC Response submitted to FAA**
- **6 sites will be selected using the following basic criteria at a minimum:**
  - **Geographic and climate diversities**
  - **Assets (facilities and airspace)**
  - **Experience with NAS safety and operations**
  - **Model for operation**
  - **Focus areas and ability to address FAA concerns**
- **FAA will issue COA(s) to utilize existing airspace**
  - **No new classes of airspace to be issued**
- **Florida stakeholders are solidifying as word spreads**
- **DoD will not participate in the test range proposals**
- **30 states are competing**
- **There is no FAA funding for the activity planned at this time**
- **UAS Test Range awardees will accept all liability for operations**
- **RFP for test ranges anticipated in July**
  - **60 day turnaround / Awards expected in December**
- **Florida is one of the few states with current ongoing UAS operations**
- **Florida is recognized as a major competitor**





# UAS Integration into the NAS Project

## Focus Areas

### **Separation Assurance**

- Assessment of how planned Next Generation Air Transportation System (NextGen) separation assurance systems, with different functional allocations, perform for UAS in mixed operations with manned aircraft
- Assess applicability to UAS & performance of NASA NextGen separation assurance systems in flight tests with realistic latencies and uncertain trajectories
- Assess functional allocations ranging from today's ground-based, controller-provided aircraft separation to fully autonomous airborne self-separation

### **Communications**

- Develop data & rationale to obtain appropriate frequency spectrum allocations to enable UAS ops in NAS
- Develop and validate candidate secure safety-critical command and control system/subsystem test equipment for UAS that complies with UAS international/national frequency regulations.
- Perform analysis supporting recommendations for integration of safety-critical command & control systems and air traffic control communications

### **Human Systems Integration**

- Develop a research test bed and database to provide data and proof of concept for ground control station
- Coordinate with standards organizations to develop human-factors guidelines for GCS operation in the NAS

### **Certification**

- Define a UAS classification scheme and approach to determining Federal Aviation Regulation airworthiness requirements
- Provide hazard and risk-related data supporting development of design criteria & best development practices

### **Integrated Tests and Evaluation**

- Integrate and test mature concepts from technical elements to demonstrate and test viability
- Evaluate technology development in a relevant environment (full-mission, human-in-the-loop simulations and flight tests)



# UAS Integration Evaluation Plan

## Segment A



### Baseline Tasks

- Metric and data definition
- Scenario development
- Model verification
- Initial simulations

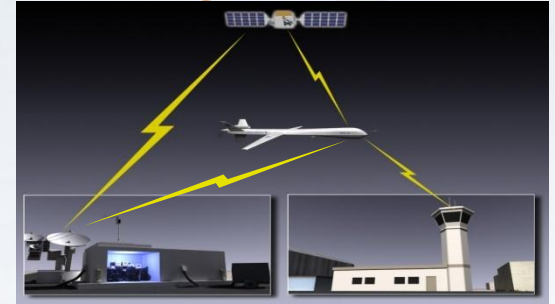
## Segment B



### NAS/NextGen Integration

- Upgrade/mature environment
- Scenario enhancement
- Model refreshment
- Complex simulations

## Segment C



### NextGen Enabling Technologies

- Technology simulations
- Test bed external connectivity
- Pre flight demos in laboratory
- Continue simulations

## Proof-of-Concept Flight Demos

Flight Demos -1s & -1p  
Achieved Performance

Flight Demo-2  
Coupled Flight  
Management System  
(FMS)

Flight Demo-3 Trajectory  
Based Operations (TBO)  
Flight Demo-4 Enabling  
Technologies

Segment D – Trade Studies & Analysis



# FL UAS Initiative Metric “Speed To Operations”

## *Emulate FAA safety standards & facilitate “Speed To Operations”*

- **Operational parameters**
  - **Operation objectives/Mission**
  - **Duration of test/operation**
  - **Airspace volume definition**
  - **Safety requirements**
  - **TRL of platform**
- **Streamlined process**
  - **Minimal time from request to test**
  - **Reduced cost**
  - **Elimination of roadblocks**
  - **Efficient, but safe process**





# Strategy

- Identify and form consortia of UAS stakeholders/users
- Secure political, military, civil and commercial support
- Integrate (virtually) all ranges/SUAs/operations throughout the state
- Provide standard process by which users engage
- Promote Florida as a user friendly and cooperative site
- Facilitate a network for communication/collaboration amongst interested parties/consortia members
- Encourage cooperation and coordination of DoD, civil and commercial users/facilities
- Provide a broad reaching Florida test bed and operational capability to service existing and future UAS needs
- Pursue FAA award as National Range for UAS integration into the NAS
- Develop a self sufficient business model





# Florida's UAS Effort Overview

## (1) Florida's FAA UAS Test Site RFC and RFP Response

- (a) Florida's response to FAA solicitations regarding the 6 National UAS Test Sites.
- (b) Coordinate inputs from all stakeholders throughout Florida and incorporation of information solicited from consultants and FAA sources.
- (c) Address safety plan for operation of the range, including means of assessing technology and mission profiles to ensure that the public is not endangered.
- (d) Identify the COA(s) required and the manner under which they will operate.

## (2) Florida UAS Range Architecture

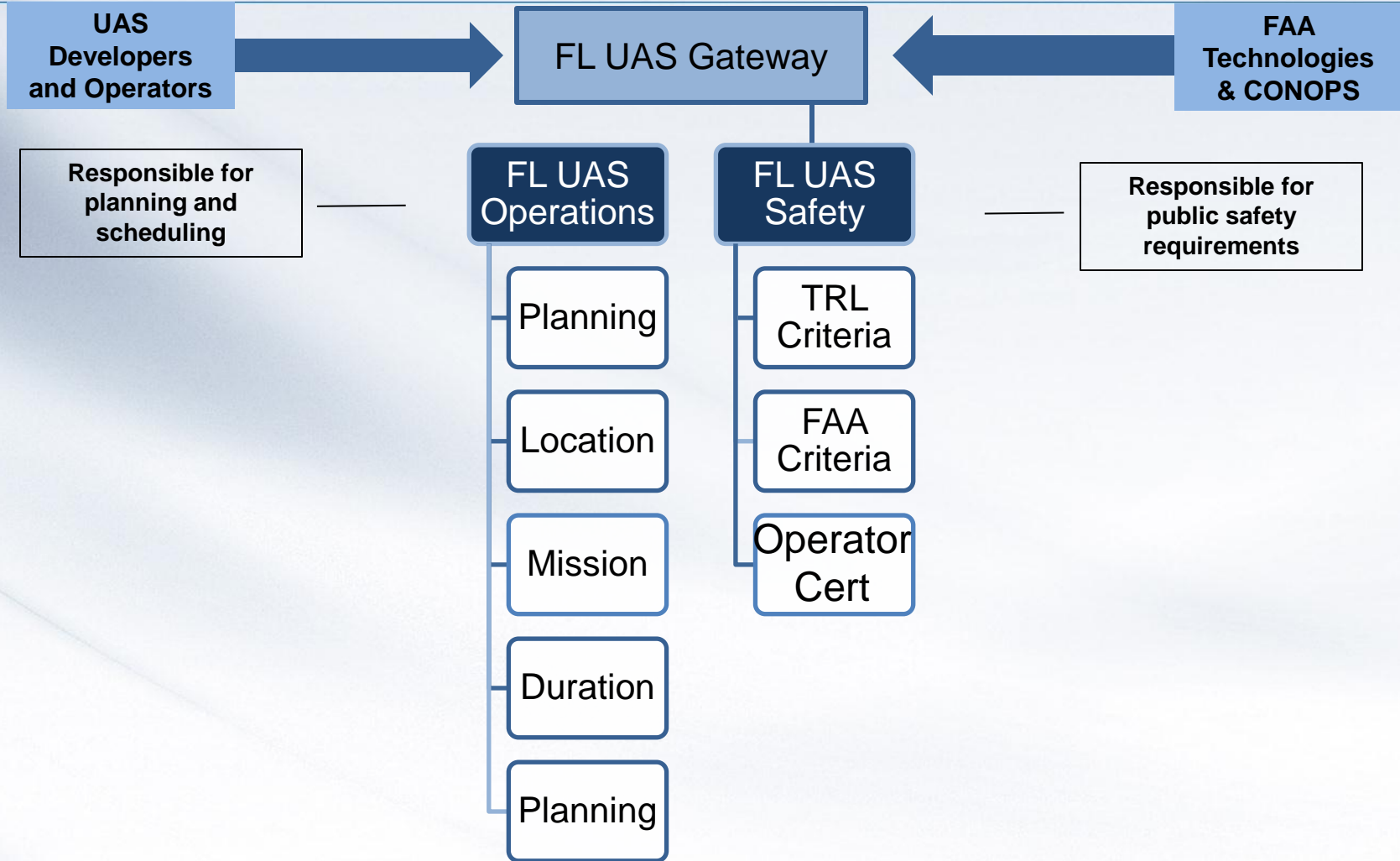
- (a) Develop range architecture to facilitate UAS testing and operations within Florida
- (b) Ensure safety and integrity of the operations concept developed
- (c) Flexible architecture in terms of location and coverage; adaptable to the future requirements of UAS test and operations.
- (d) Identify current state assets, including airspace, and delineate how these will be integrated effectively into the UAS range.

## (3) UAS Test Range Prototype & Pilot Demonstration

- (a) Develop & demonstrate the Florida's UAS Test Range.
- (b) Pilot demonstration using a surrogate aircraft or a UAS, depending on availability.



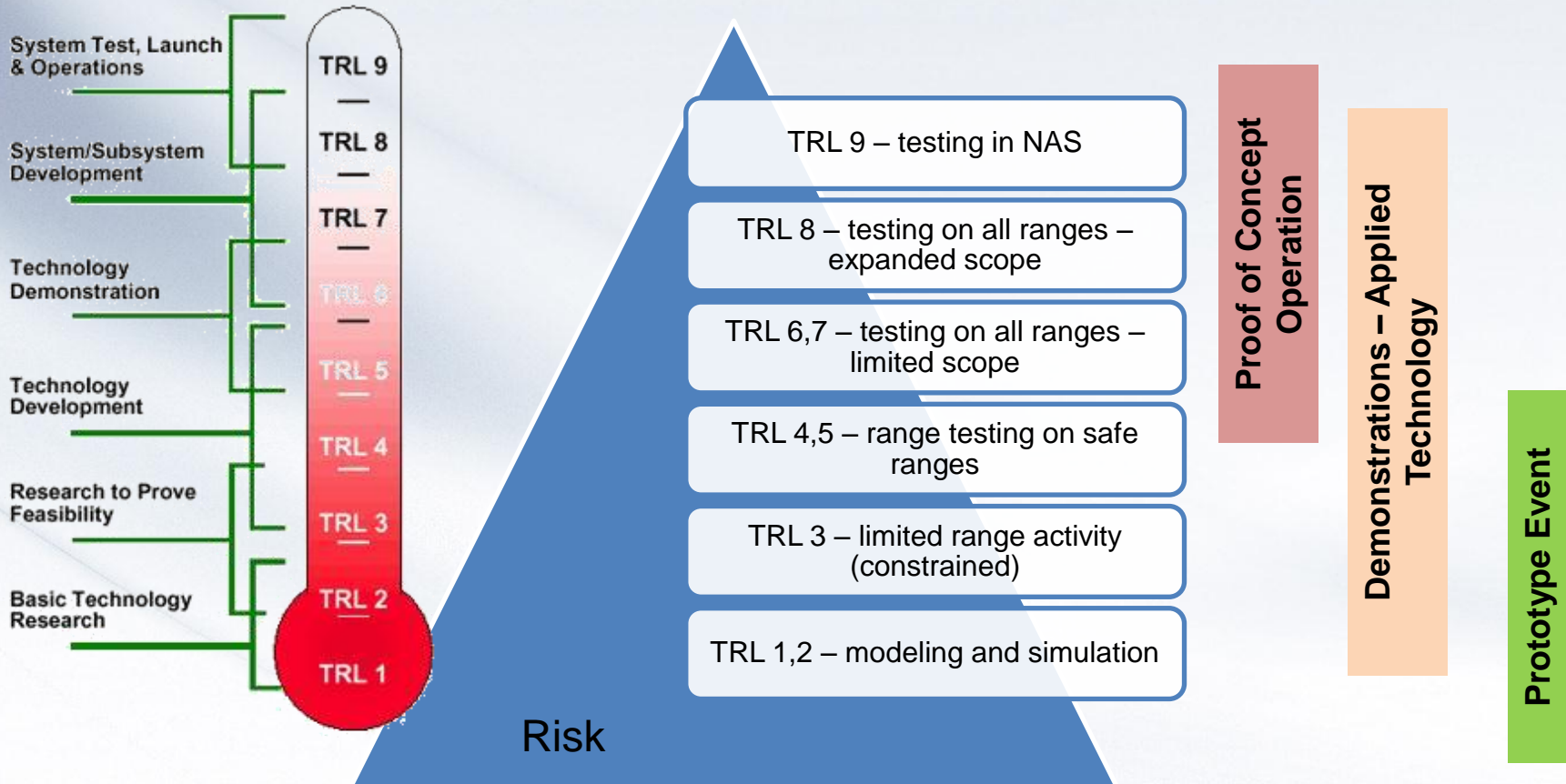
# Florida UAS Test Range Model



***Emulate FAA safety standards & facilitate “Speed To Operations”***



# Standards Based Safety & Operations Model





# Range Wide Operations

- ***Proof of Concept Operations***

- Aligned to test site selection criteria
- FAA & Range operational protocols

- ***Applied Technology Demonstrations***

- Objective determined by user mission & responsibility
- Value to the end user

- ***Prototype Events***

- Safety standards verification
- TRL advancement “certification”

## ***Expected Operations***

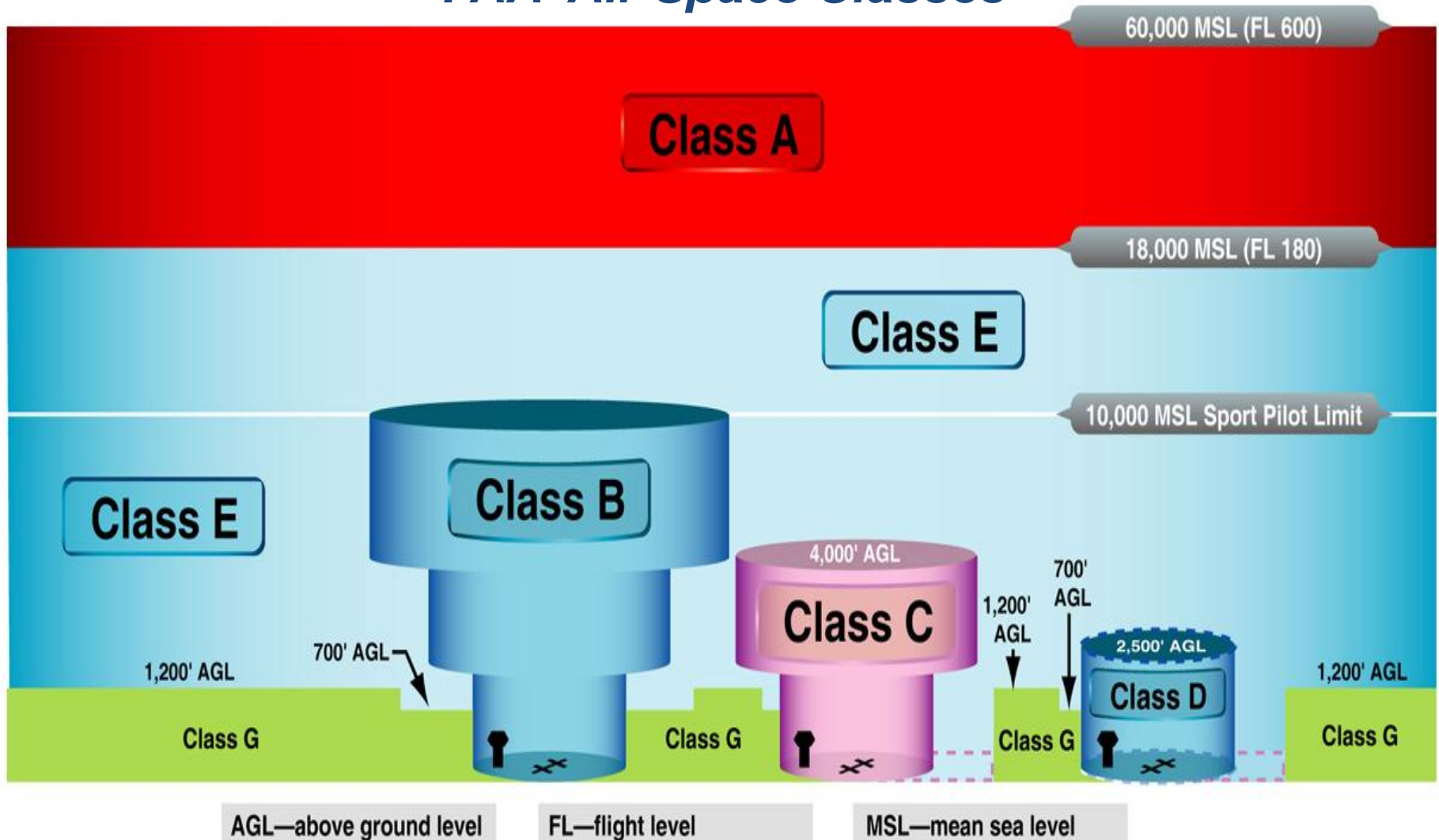
- Flight testing of new airframes
- Flight testing of sensors
- Ground support training
- Environmental testing (sensors or airframes)
- Certification of new platforms
- Certification of DoD to commercial platforms
- Test & training (commercial/civil/DoD)
- NAS operation evaluations
- NAS infrastructure I&T
- Simulation/Emulation center
- Commercial Operations (Agricultural, marine, etc. )
- State and Federal Civil (Law Enforcement, CBP, etc. )





# Managing Air Space

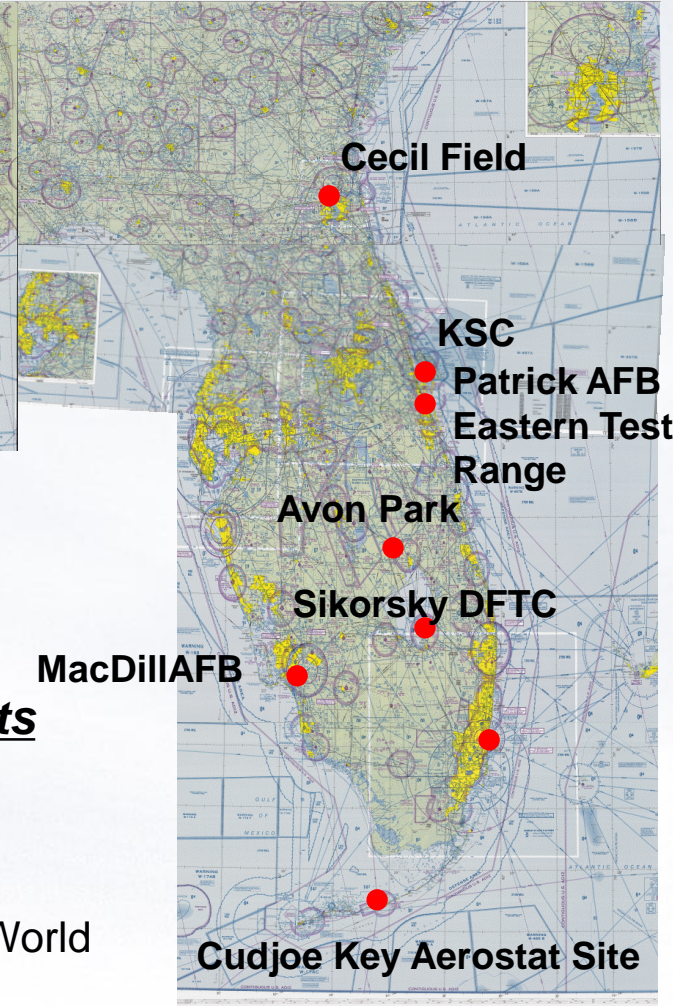
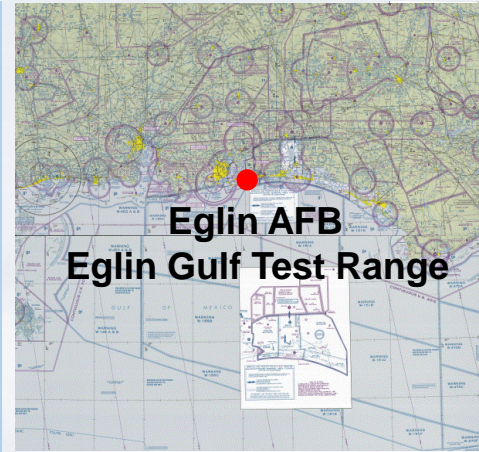
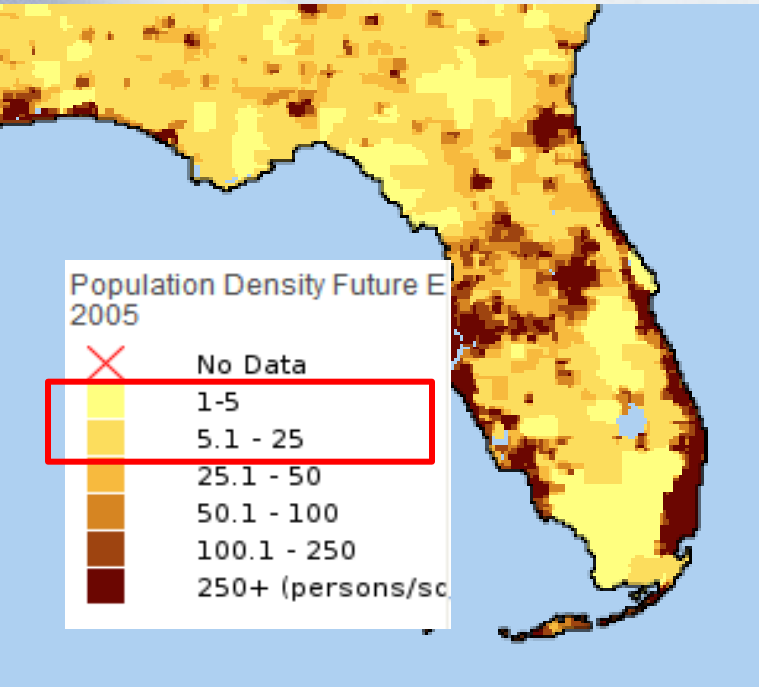
## FAA Air Space Classes



# FAA Unmanned Aerial Systems Operation Constraints



## Florida Ranges and Airspace & Population Density



### FAA Unmanned Aerial Systems Operation Constraints

- Allowed to operated over water or unpopulated areas
- No specific population density defined
- Assess 1-5 & 5.1-20 person/km sq from Columbia University World Wide population grid





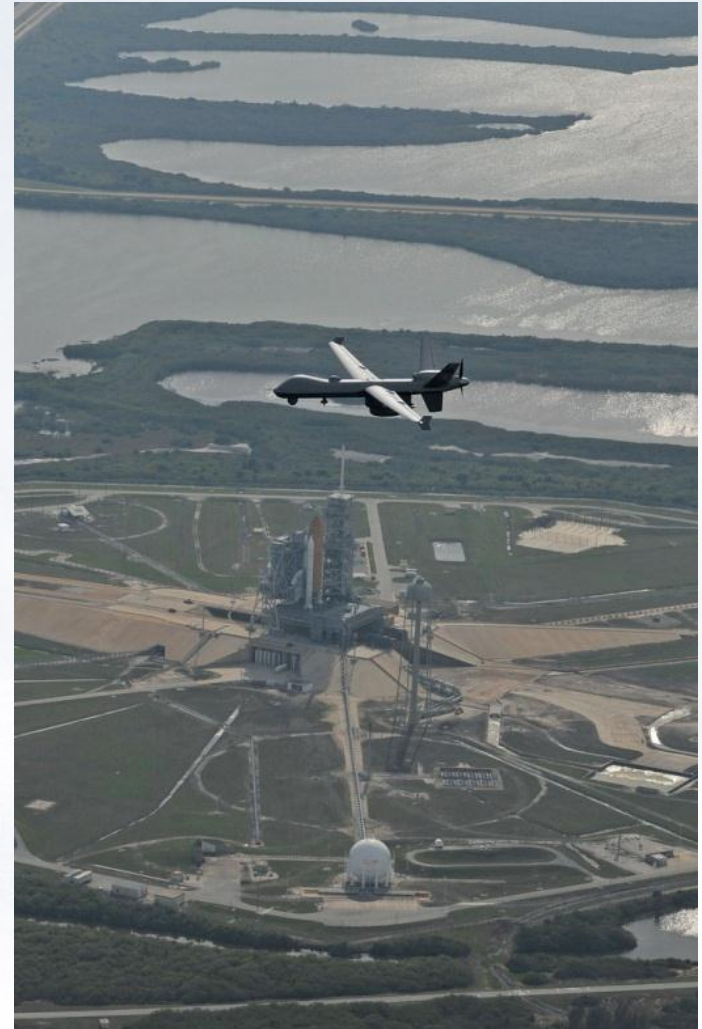
# Demonstrations – Proof of Concept

## R&D&D – Research-Development-Demonstration

➤ NASA-KSC and the FAA are working together on research, development, and demonstration activities to evaluate parameters, operations, and procedures that define acceptable UAS behavior while maintaining the highest level of safety. This includes investigating methods that support the integration of UAS into the NAS without causing delays, capacity reduction, or placing current users at risk.

➤ FAA UAS demonstration activities on the Eastern Range began in 2010 through a collaboration with the Department of Homeland Security (DHS) CBP utilizing their Predator B UAS.

➤ FAA implementation goal FY10-15 – Conduct integrated UAS demonstration plan



2010 – DHS UAS operations on Eastern Range. Shuttle Discovery is shown on Pad B in the background.



# UAS Test Site Architecture Development Collaborative Committees

- Safety & Standards Committees
  - Airworthiness / Pilot / Operator certification
- Range Operations
- COA development & submission
- Distributed Gate-way
- Insurance

## **Collaborative Committees**

- Membership - 7-10 area subject matter experts
- Volunteer regional representation
- Co-chairs planned
- Space Florida Formal Collaborative Charter
- 4 – 6 week effort planned





SPACE FLORIDA - UNMANNED AIRCRAFT SYSTEM INITIATIVE

"Death is just nature's way of telling you to watch your airspeed"  
- Anonymous

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## Florida's Vision for Unmanned Systems

Develop an Unmanned Aircraft Systems (UAS) Test and Operational Range based in the State of Florida leveraging existing assets in partnership with civil and military government agencies, academia and industry.

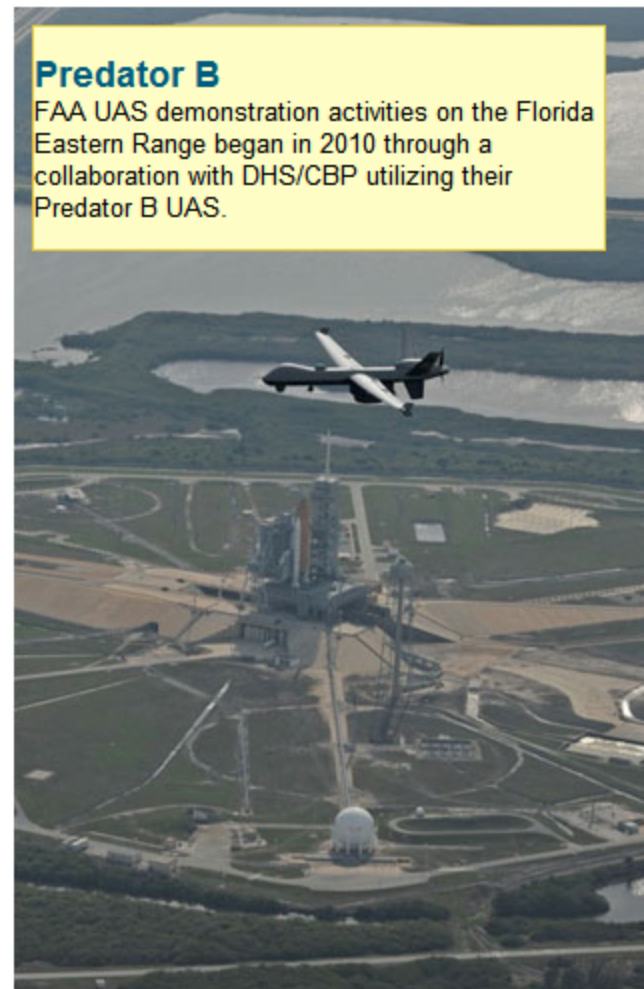
### FAA Certification

The FAA has been tasked by both Congress and the DoD to establish six national UAS test ranges. Florida intends to be one of them.

Unmanned Aircraft Systems (UAS) are quickly becoming a way of life. These aircrafts were a prominent player in Iraq and Afghanistan; they were deployed by the military to serve in missions where conditions were dull, dirty, or dangerous. Unmanned aircraft currently fly in the U.S. on a very limited basis, in restricted airspace. As recently mandated by congress, UAS will be flying above urban areas within the next few years. Florida is getting ready.

### Predator B

FAA UAS demonstration activities on the Florida Eastern Range began in 2010 through a collaboration with DHS/CBP utilizing their Predator B UAS.





# Concerns

- FAA Transparency in Process & Selection
- NASA engaged within NASA's Aeronautics Research Mission Directorate at the Integrated Systems Research Program office
- Big stakeholders on multiple teams
  - Many partners are on multiple teams
  - Limits “team” exposure (until either operations or RFP submission)
  - NDAs required
- Unique Climate & Topography of Florida doesn't meet all FAA
  - Provides a strategic advantage
  - Requires strategic partnerships to meet all test site criteria
- Operations to make test site selection “fait de compli”
  - Menu of operations executed throughout the state
  - Operations require funding and resources



# Florida Defense Alliance Task Force Partnership & Support Support

- Awareness of Space Florida & Capabilities
- Ensure “Regional” capabilities captured
- Ensure ops captured
- Identify local UAS related technologies & companies
- Support operational planning
- Standards Committees
  - Identify & Participate in Process & Standards development & verification
- Engage FL Delegation – require FAA transparency in test site criteria and site selection process



## Florida UAS Initiative



**Jim Kuzma**  
**[jkuzma@spaceflorida.gov](mailto:jkuzma@spaceflorida.gov)**  
**(321) 730-5301 x243**  
**(410) 440-1839**



**Florida Defense Support Task Force Meeting**  
**27 June 2012**

- Chairman Goetsch, Members of the Task Force.....
- I am Mollie Palmer, Deputy Chief of Staff and Military Liaison with the Fla Dept of Environmental Protection.
- Here with me are Al Dougherty, our Deputy Secretary for Land and Recreation, and Clay Smallwood, our State Lands Division Director.
- As you have heard many times, installation commanders in Florida have indicated that encroachment is their #1 concern.
- The State of Florida has had a successful partnership with the U. S. Department of Defense for over ten years to acquire conservation lands around military bases that also serve as encroachment buffers.
- These partnerships have been made possible by the state's Florida Forever Program and the U.S. Department of Defense Readiness and Environmental Protection Initiative (or REPI).
- To date, through such partnerships, DEP has acquired almost 37,000 acres that conserve natural resources and help protect the mission of the adjacent military base.
- The federal REPI funds can be used as match to acquire lands that either preserve off-base habitat to relieve environmental restrictions on military operations or to acquire lands that would limit development of property incompatible with an installation's mission. So REPI can be used as match to acquire either conservation lands or non-conservation lands.

- However, while protecting and buffering military installations and military airspace is one of the legislative criteria in the Florida Forever program, projects must also have conservation value.
- And we have heard of lands around some bases with encroachment threats that have no such conservation value.
- So that's what brings us to today's discussion -- there is no focused program or sufficient source of funding to acquire such lands.
- We recently researched potential sources of funding that we thought might be appropriate for this non-conservation need, but either the criteria did not match this type of proposal or there was insufficient funding.
- For example, the Florida Defense Infrastructure Grant (or FDIG) program that Enterprise Florida administers can be used for such acquisition needs, but its funding might not be sufficient to meet the need.
- Therefore, at the request of the Task Force staff, we are working with them to bring suggestions to the Task Force for acquiring lands around installations that are under encroachment threat but have no conservation value.
- Task Force staff have asked the Spectrum Group, as they meet with the base commanders, to identify such lands at each installation, in order to quantify the need.
- We don't yet know the scope of the problem or what will be needed for next steps. Determining what type of acquisition process is

needed could be a small-scale project or develop into a larger-scale effort. We'll know more based on the Spectrum Group's August report.

- Once encroachment concerns are identified by each installation, the risk such encroachment poses to each installation must be evaluated – to set priorities.
- With that information, we can work with Task Force staff, the consultants, any other interests to develop an acquisition plan to serve as a basis for a legislative recommendation, if needed.
- We are meeting with General Jones with the Spectrum Group tomorrow to discuss this issue.
- In the meantime, our State Lands team will try to work through a theoretical acquisition project for such a program, in order to identify any unique steps or procedural requirements that might need legislative or rulemaking attention.
- We welcome any ideas or recommendations from the Task Force as we continue to work on this important effort.

**Florida Defense Alliance Meeting  
June 27, 2012  
Florida Department of Transportation  
Background Paper**

**1. Transportation Development-Systems Planning Office** (CO POC: Brian Watts 850-414-4818)-updated 06/25/12

**Strategic Intermodal System**

**a. Objective:**

- i. Fulfill Legislative requirement from s. 339.64 Florida Statutes
- ii. Determine whether road and other transportation infrastructure connecting military installations to Strategic Intermodal System (SIS) should be included in the SIS Plan

**b. Partners:**

- i. Florida Defense Alliance (FDA)
- ii. Florida Council on Military & Mission Support
- iii. Florida Department of Transportation
- iv. Other FDOT statewide, regional & local transportation partners

**c. Preliminary Analysis: (Complete; SIS Military Access Facility Study)**

- i. Review of installation military value & strategic importance to national defense
- ii. Review of other installation data, including personnel & economic impact
- iii. Review existing connections between Florida's installations & SIS
- iv. Develop proposed designation criteria and thresholds based on established SIS framework

**d. Adopted Criteria and Thresholds (Adopted January 29,2010):**

- i. Designate as "Military Access Facilities" Strategic Highway Network (STRAHNET) roads and Strategic Rail Corridor Network (STRACNET) rail lines serving main entrance(s) of U.S. Department of Defense military installations with at least 0.25% of total U.S. military and civilian personnel.
- ii. Designate as "Military Access Facilities" Strategic Highway Network (STRAHNET) roads and Strategic Rail Corridor Network (STRACNET) rail lines serving main entrance(s) of military installations designated as the Governor's Continuity of Government site(s).

**e. SIS Military Access Facility Study Completed December 2010**

- i. Described the military installation value & strategic importance to national defense
- ii. Inventoried existing installation data, including personnel & economic impact
- iii. Documented existing connections between Florida's installations & SIS to designate as a Military Access Facility

**f. Results:**

- i. Very little mileage on the STRAHNET is not designated SIS
- ii. Adds approximately 80 miles of STRAHNET roads to the SIS network to be designated as Military Access Facilities
- iii. Approximately 89% of Florida's military and civilian personnel served by the SIS network

**g. Benefits & Opportunities:**

- i. Eligibility for SIS funding assistance for military installation access
- ii. Enhanced alliance between FDOT & Florida's military Base Commanders
- iii. Improve coordination process among military, transportation, and economic partners
- iv. Demonstrate state support and commitment for military installations and their needs
- v. Continues Florida's strong tradition as a military and national defense presence

**h. Installations meeting the 0.25% criteria or Governor's Continuity of Government:**

- |                      |                    |                        |
|----------------------|--------------------|------------------------|
| • Cape Canaveral AFS | • NAD Jacksonville | • Tyndall AFB          |
| • Eglin AFB          | • NAS Jacksonville | • Camp Blanding        |
| • Hurlburt Field     | • NAS Pensacola    | • US Central Command   |
| • MacDill AFB        | • NS Mayport       | • US Spec. Oper. Comm. |
| • MC Blount Island   | • Patrick AFB      |                        |



i. **Installations that would not directly connect to the SIS, but benefit from SIS facilities (under 2 miles):**

- Homestead ARB (.09 mi)
- NAS Saufley Field (.78 mi)
- U.S. Southern Command (0.9 mi)

j. **Installations that would not be included under the 0.25% criteria:**

- Avon Park (10.50 mi)
- NAS Key West (99.34 mi)
- Team Orlando-Multi-Service Simulation Development (6.62 mi)
- Corry Station (0.89 mi)
- NAS Whiting Field (11.91 mi)
- NSA Panama City (3.38)

k. **Status:** The military facilities meeting the SIS criteria have not officially been added to the SIS yet. The Districts are coordinating with partners, then initiate the SIS designation change requests, and submit them to the Central Office.

2. **Public Transportation – Aviation Office** (CO POC: Aaron Smith 850-414-4514)-updated 02/07/11

a. **Destin-Ft. Walton Beach Airport**

- Eglin AFB is in close proximity to Destin-Ft. Walton Beach Airport (6 miles northwest) and their respective flight operations require close attention to prevent airborne mishaps. Destin-Ft. Walton Beach Airport does not have an Air Traffic Control Tower (ATCT). Both Okaloosa County, which owns and operates the airport, and Eglin AFB have long wanted an ATCT constructed at this public-use airport.
- The Federal Aviation Administration accepted Destin-Ft. Walton Beach Airport into the contract air traffic control tower program, February 2010. The air traffic control tower's cost is estimated to be \$3 million. The tower is competing with 14 other air traffic control towers for priority. Tower planned to operate 20 hours per day. Pending federal funding. Unknown start date.

b. **Airport Compatible Land Use Study**

- The FDOT Aviation Office has initiated an update to the Airport Compatible Land Use Study regarding public-use airports and military airfields in Florida based on the inputs received during the Phase 3 and Phase 4 outreach efforts.
- Phase 1 (completed) involved a series of Stakeholder Working Group meetings with a variety of civilians representing public and private entities, plus military representatives.
- Phase 2 (completed) implement Working Group recommendations revising our "Airport Compatible Land Use Guidebook" and Chapter 14-60, Florida Administrative Code, "Airport Licensing, Registration, and Airspace Protection."
- Phase 3 (completed) outreach and educational process to inform the public, local and state planners of airport land use requirements and recommendations.
- Phase 4 (completed) educating and instructing local government decision-makers, planning and zoning professionals, and aviation industry representatives on the use of the Florida Department of Transportation's Airport Compatible Land Use Guidebook.

c. **Statewide Aviation Economic Impact Study**

- Study, completed March 2010, included the economic impact of Military Aviation in Florida.
- Annual military aviation economic activity is \$10.8 billion.
- Complete study available at the FDOT Aviation website [www.dot.state.fl.us/aviation](http://www.dot.state.fl.us/aviation).

## Ongoing Plans and Construction

1. **FDOT District 1** (D-1 POC: Amy Perez 863-519-2913)-updated 02/07/11
  - a. Department participated in a **Joint Land Use Study (JLUS)** with the Central Florida Regional Planning Council (CFRPC), Highlands County, Polk County, Okeechobee County, Osceola County, Avon Park, Sebring, Frostproof, and the base, in order to look long term at base operations and needs, surrounding land uses, and potential impacts on transportation infrastructure. Recommendations for local government strategies have been prepared by the CFRPC in a final report dated October 2010. The CFRPC is currently presenting the results of the study to the local municipalities and counties to encourage support for the next phase of strategy implementation.
  
2. **FDOT District 2** (D-2 POC: Robert "Larry" Parks 386-961-7850)-update10/7/10
  - a. **Camp Blanding Joint Training Center, Florida National Guard, Clay County**

Potential Clay County Comprehensive Plan Amendment Number 09-MIL contains goals, objectives, and policies relating to military installations:

    - i. Creates a "Camp Blanding Overlay Impact Area Map" identifying areas impacted by military activities, such as noise
    - ii. Requires land use amendments, re-zonings, developments of regional impact, site plans, subdivisions, and other development orders located within an area impacted by Camp Blanding be forwarded to the military for their review and comment
    - iii. Establishes "Height Limitations" within certain areas shown on the "Camp Blanding Overlay Impact Area Map"
    - iv. Establishes "Limitations on Lighting", so as to minimize negative effects on aircraft
    - v. Authorizes a non-voting, military representative from Camp Blanding on the Local Planning Agency (i.e. Planning Commission)
    - vi. The amendment is compatible with local plans, military bases, regional transportation corridors, and facilities and was passed to the Department of Community Affairs from the Regional Planning Council
    - vii. Camp Blanding petitioned the DCA on the grounds that the Clay County plan did not sufficiently address provisions to the intensity and height of development permissible for properties within a defined noise zone contiguous to Camp Blanding. Clay County has established parameters and restrictions on land use for properties located within an average noise distance from the training facility. Camp Blanding contends that the average distance is not appropriate for land use decisions and requests that Clay County's policies identify peak noise distances as the appropriate measure.
    - viii. Administrative hearings were conducted in July and August, 2010. The judge in this case has not issued a final ruling as of October 2010.
  - b. **Naval Station (NS) Mayport, Duval County**
    - i. Main gate improvements Project Development and Environmental (PD&E) complete
      - (1) Final recommendations were to add a fourth lane through the main gate, improve a park and ride lot on the southeast corner, and add minor improvements to the intersection to dedicate the southbound turn lane
      - (2) Improvements can be done within the existing right of way, on properties owned by the Navy or the Jacksonville Transportation Authority (JTA).
    - ii. In talks between Jacksonville Transportation Authority (JTA) and Mike McVann, Mayport Facilities Manager, no decision on **nuclear aircraft carrier homeport** at Mayport and no current improvements funding. FDOT has no funding for this project.
  - c. **Naval Air Station (NAS) Jacksonville, Duval County**

No Current transportation issues of concern to NAS Jacksonville.

3. **FDOT District 3** (D-3 POC: Jim De Vries 850-981-2754)-updated 02/08/11

a. **Naval Air Station (NAS) Whiting Field – Santa Rosa County**

- i. Nearing completion of an Environmental Assessment (EA) for multi-laning of SR 87 from just north of Whiting Field to the Alabama line.
- ii. Work has begun on an Environmental Impact Statement (EIS) for a possible beltway running from the intersection of US 90/SR 87 S running north to the area north of NAS Whiting Field at SR 87 N. This is a beltway around the City of Milton. Two public workshops have been held with the Department presenting corridor alternatives.

a. **Eglin AFB (Air Force Base) – Santa Rosa, Okaloosa and Walton Counties**

- i. SR 123 from SR 85 S to SR 85 N multi-laning - The Environmental Assessment (EA) is nearing completion. Okaloosa snail darter is an issue.
- ii. **7<sup>th</sup> Special Forces Group** (SFG) cantonment area at SR 85 and Duke Field – Eastern Federal Lands Highway is administering a design build project for a new interchange at the entrance to Duke Field/7<sup>th</sup> Special Forces cantonment. They have shortlisted firms and are scheduled to be under contract by summer 2011.
- iii. **Joint Strike Fighter** (JSF) Training Site: FDOT permit for a temporary construction road is complete and the road is under construction by Eglin.
- iv. SR 85/SR123 Interchange is under construction. This is an American Recovery and Reinvestment Act (ARRA) project. FDOT District 3 is working closely with Eglin AFB on this project as it sits at the approach end of the Eglin AFB Runway 12.
- v. Mid Bay Bridge Authority continues to work with Eglin AFB on the Mid Bay Connector to SR 85. Phase 1 is under construction and Phases 2 and 3 were let too construction in December of 2010 at a cost of just under \$50 million. This facility will be almost completely on Eglin AFB property and has approximately a two year construction timeframe.
- vi. Northwest Florida Transportation Corridor Authority (NFTCA) continues to work with Eglin AFB on the Eglin AFB Southern Bypass. This is approximately a 55 mile facility running from SR 87 in Santa Rosa County to US 331 in Walton County. FDOT District 3 along with Florida Turnpike Enterprise are assisting the authority in completing a planning level Traffic and Revenue study to help determine the feasibility of constructing a toll facility connecting SR 87 in Santa Rosa county to SR 85 in Okaloosa county. This facility would be located almost completely on Eglin reservation property. This study should be completed by June 2011.
- vii. US 98/Hurlburt Field Interchange environmental document was signed by the military December 7, 2010. This document was completed by Okaloosa county in cooperation with Hurlburt Field, Okaloosa county and FDOT. We are discussing getting FHWA to sign the document as a cooperating agency.

4. **FDOT District 4** (D-4 POC: Stacy Miller 954-777-4429)-updated 02/07/11

No projects or issues are reported since **no military installations** are located in District 4.

5. **FDOT District 5** (D-5 POC: Jim Wikstrom 407-482-7874)-updated 02/8/11

- a. There are no projects near or impacting Patrick AFB at this time.

6. **FDOT District 6** (D-6 POC: Phil Steinmiller 305-470-5825)-updated 02/07/11

a. **U.S. Southern Command Headquarters – Miami-Dade County**

- i. Major reconstruction of the SR 826/SR 836 Interchange (2009-2015)
- ii. Construct viaduct and reconstruction of NW 25<sup>th</sup> St from NW 67<sup>th</sup> Ave to NW 89<sup>th</sup> Ave. (2007-2015) Phase 1 eastside is scheduled to be completed by summer 2011. Phase 2 westside is funded in 2012. The construction is scheduled to be completed by spring 2015.

b. **Homestead ARB (Air Reserve Base) – Miami-Dade County:**

- i. Designation of SW 288<sup>th</sup> Street, from US 1 to the Homestead Air Reserve Base, as a Strategic Highway Network (STRAHNET) Connector (2010)

- ii. Add lanes and reconstruct SW 328<sup>th</sup> St. from SW 152<sup>nd</sup> Ave. to SW 137<sup>th</sup> Ave. (2011)
  - iii. Resurface SR 989/Allapattah Rd from SW 240<sup>th</sup> St. to SW 224<sup>th</sup> St. and from SW 246<sup>th</sup> St. to SW 248<sup>th</sup> St. (2012)
- c. **U.S. Coast Guard Air Station Miami** (Co-located with **Opa-Locka Executive Airport**, a public-use airport owned and operated by Miami-Dade County) **Miami-Dade County**
- i. Project Development and Environmental (PD&E) of SR 93/I-75 from Palmetto Expressway to Broward County line (Work currently in progress)
  - ii. Widen to 5 lanes SR 916/NW 138<sup>th</sup> St. from NW 67<sup>th</sup> Ave. to NW 57<sup>th</sup> Ave. (2010)
  - iii. Flexible Pavement Reconstruction of SR 823/NW 57<sup>th</sup> Ave. from US 27/Okeechobee Rd. to W 23 St. (2009), from W 23 St to W 46 St. (2013), from W 46<sup>th</sup> St. to W 53<sup>rd</sup> St. (2012), from W 53<sup>rd</sup> St to W 65<sup>th</sup> St. (2015) and W 65<sup>th</sup> St to W 84<sup>th</sup> St/NW 138<sup>th</sup> St. (2015)
  - iv. PD&E SR 826/Palmetto Expy from SR 93/I-75 to Golden Glades Interchange (2011)
  - v. FM# 418148-1 New Air Traffic Control Tower (2009) under construction
  - vi. FM# 4223172 Apron Rehabilitation (2014 and 2015)
  - vii. FM# 4223171 Runway and taxiway rehabilitation 9L/27R (2015)
  - viii. FM# 4292681 Taxiway repairs (2016)
7. **FDOT District 7** (D-7 POC: Marian Scorza 813-975-6038)—updated 02/07/11
- a. The Hillsborough Metropolitan Planning Organization (MPO) is conducting a Water Ferry Feasibility Study that has a proposed service going from Gibsonton/Apollo Beach to MacDill Air Force Base. This study is very preliminary and the feasibility of the service has not been determined at this time.
8. **FDOT Turnpike** (TP POC: Raymond Ashe 407-532-3999)-updated 02/08/11
- a. A recurring issue from past Military Commanders meetings has been whether military personnel could be **exempt from paying tolls** on Florida's toll roads.
    - i. Waiver is allowed for State of Florida military vehicles on official business since 1959. This exemption applies only to Florida National Guard military personnel driving marked or unmarked vehicles on official military business.
    - ii. Waiver is **NOT** allowed for any other military personnel or military vehicles. This is in keeping with covenants regarding exemptions along the Turnpike System (per Article V, Section 5.08, "No Fee Use of Florida Turnpike"). Waiver in this case would be considered detrimental to the financial interests of bondholders and could result in a substantial loss of revenue in violation of the covenants.
  - b. Florida's Turnpike Enterprise provided a comprehensive white paper entitled "Military Personnel Using Toll Roads" that was prepared six years ago for a Military Commanders meeting that remains valid today (copy provided separately, if further review necessary).



# FLORIDA DEFENSE ALLIANCE BRIEF



27 June, 2012

Tom Byron  
FDOT Chief Engineer

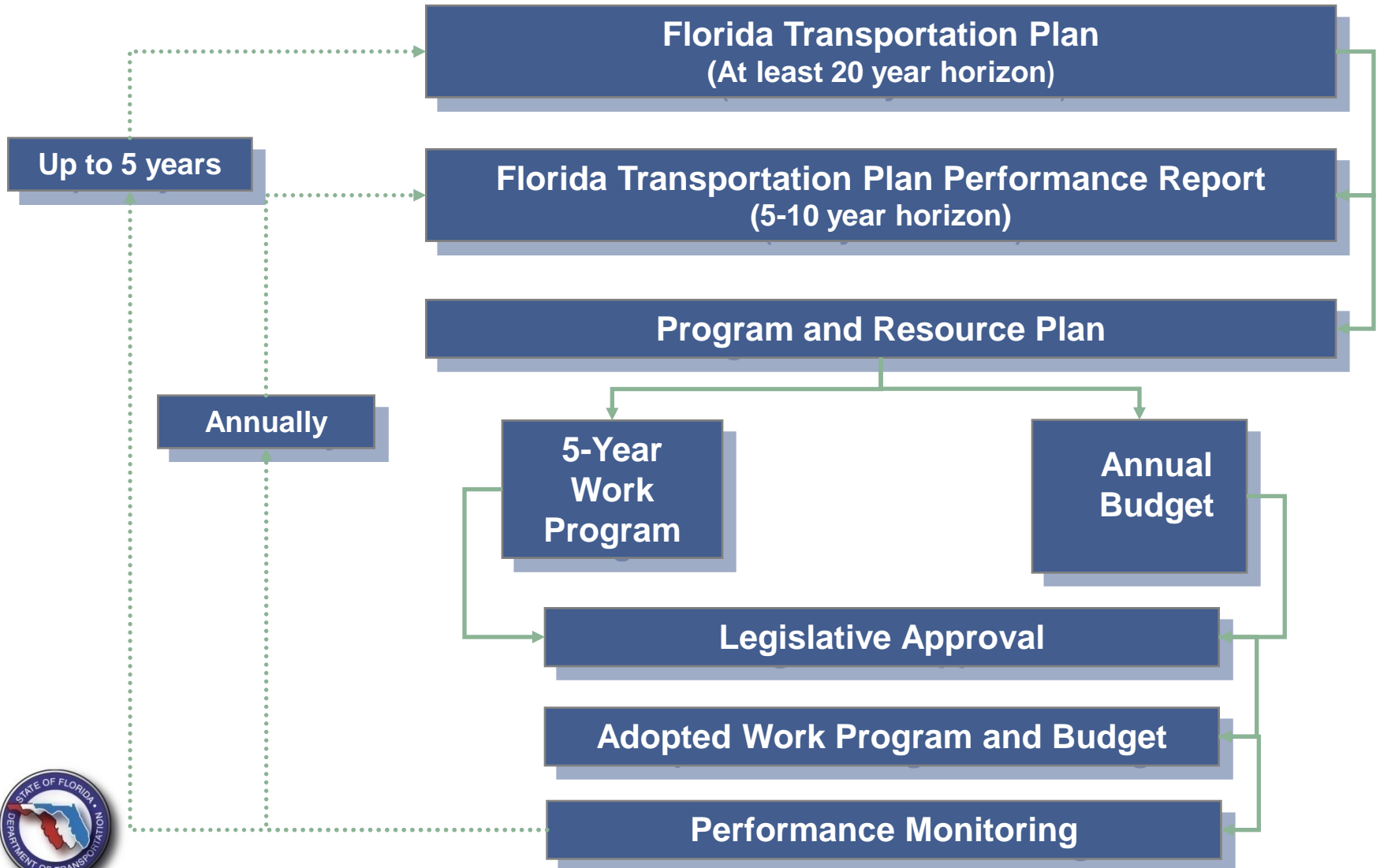


# AGENDA

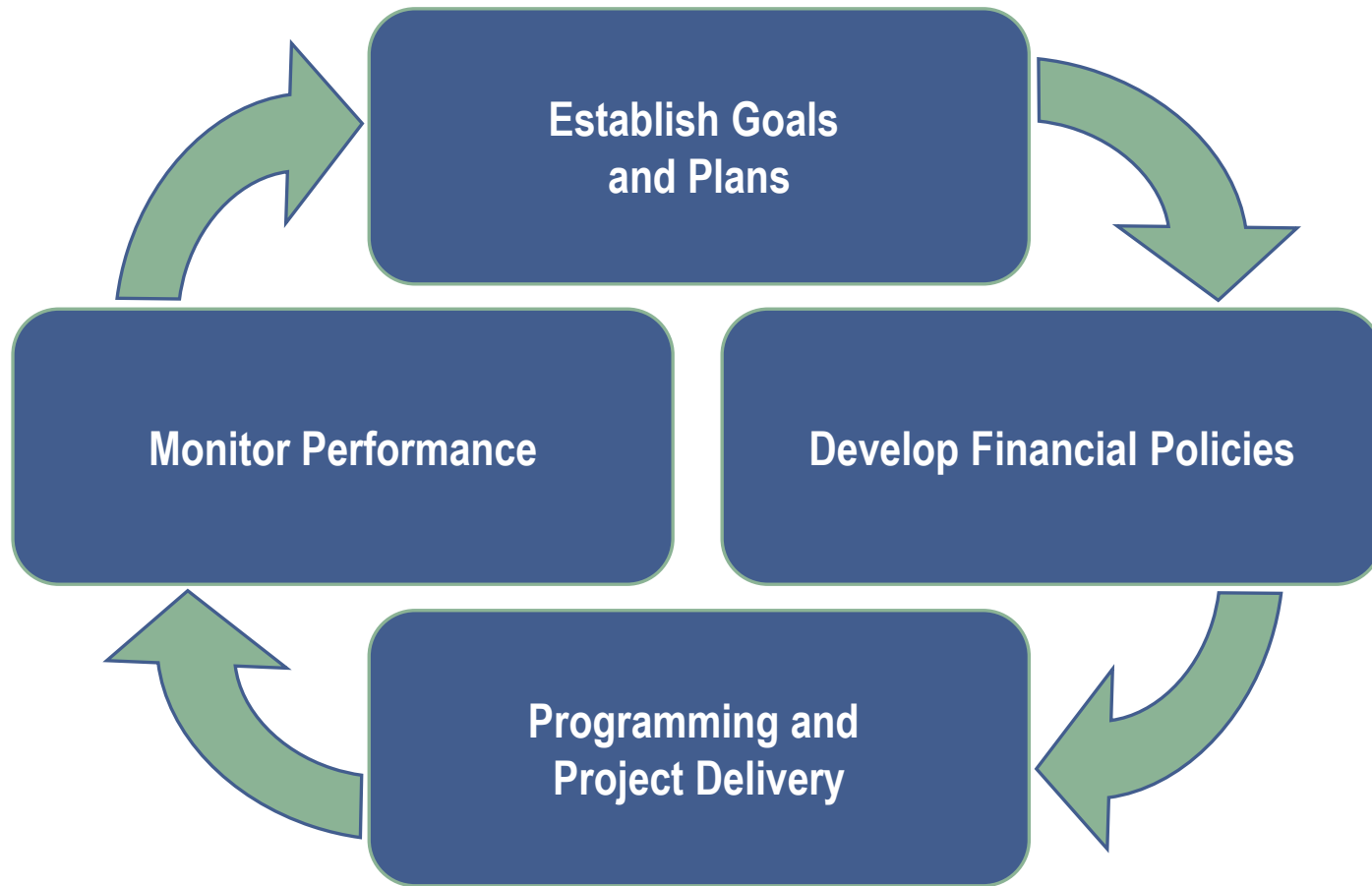
- ◆ FDOT planning process overview
- ◆ How military installations fit into that process
- ◆ Current FDOT plans impacting military installations
- ◆ Information that would help FDOT plan better in support of military needs



# POLICY FRAMEWORK FOR INVESTMENT DECISIONS



# SIMPLIFIED, FDOT VERSION OF THE OODA LOOP



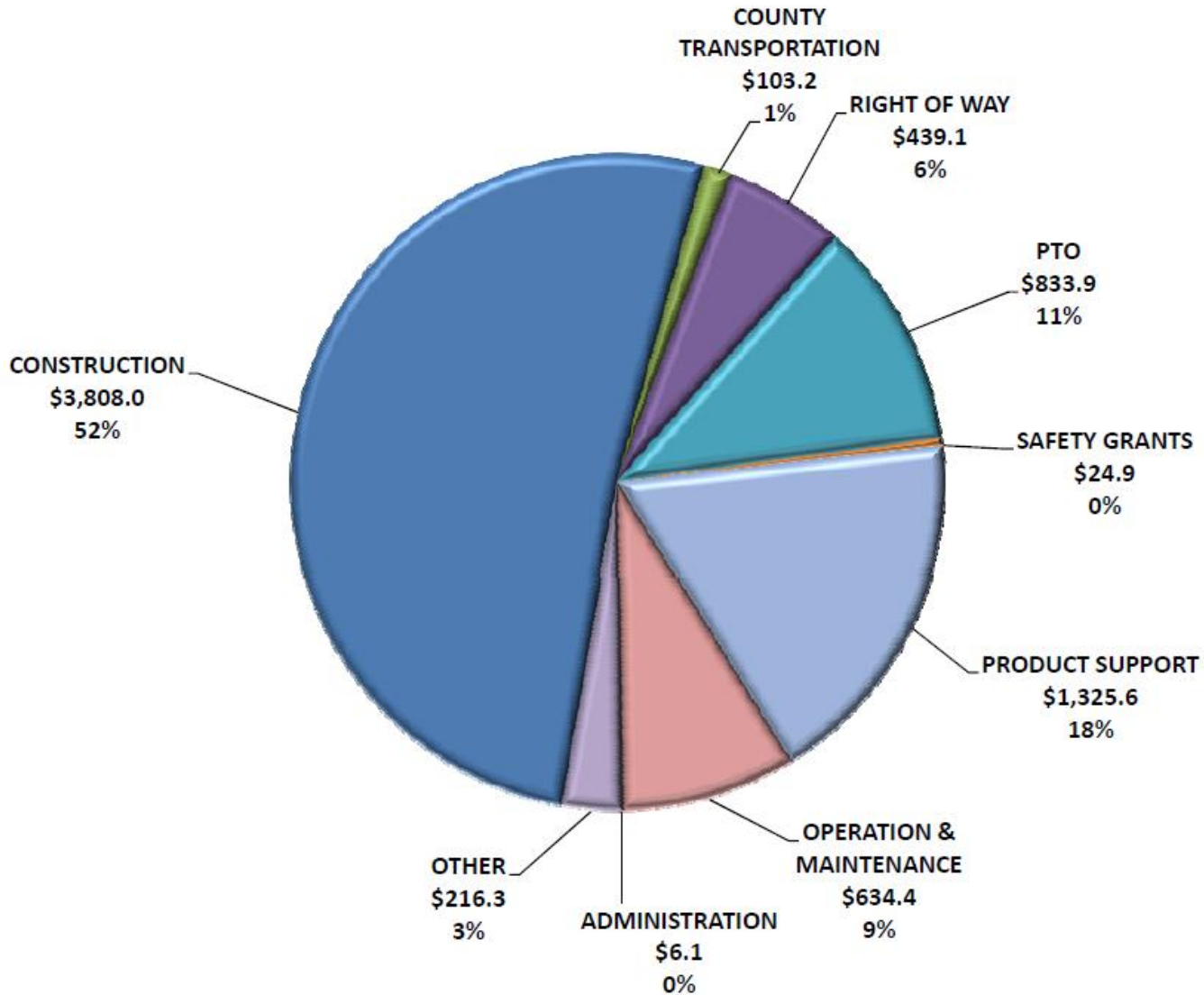


# CASH FLOW - COMMITMENT BASIS

- ◆ FDOT operates on a cash flow-commitment basis.
  - Multi-year transportation projects start before the total amount of cash is available to fund the entire project
  - Future revenues are used to pay for a project as actual expenditures occur
  - The finance plan and cash forecast are used to measure and evaluate the anticipated future revenues against total and planned project commitments
  
- ◆ FDOT is the only state agency in Florida that operates this way



# FY 2013 WORK PROGRAM BUDGET - STATEWIDE



**TOTAL FY2013 BUDGET \$7,391.4M**  
(Excludes Operating Budget)





# TRANSPORTATION WORK PROGRAM - PURPOSE

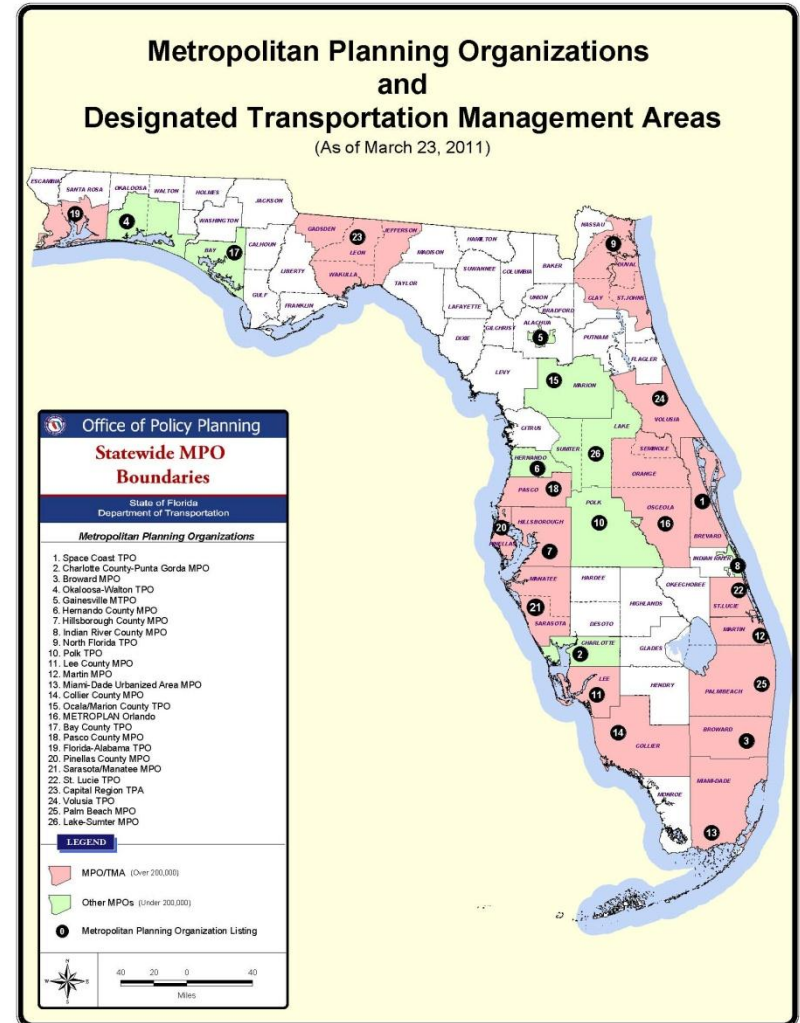
- ◆ A five-year plan of transportation projects as defined in section 339.135, F.S.
  - Developed in partnership with communities, metropolitan planning organizations (MPO), local governments, state and federal agencies, modal partners, and regional entities
  - Projects must be consistent with laws, policies, program objectives and priorities





# METROPOLITAN PLANNING ORGANIZATIONS

- ◆ Defined for urbanized areas with more than 50,000 residents
- ◆ Develop long range transportation plan and 5-year transportation improvement programs
- ◆ Annually submit transportation priorities to FDOT
- ◆ 26 in Florida today



# CURRENT PLANS

## ◆ Handouts

- Transportation Development Planning
- Public Transportation – Aviation
- Ongoing plans and construction near / iso bases
- Military Access Facilities



# HOW TO ENSURE NEEDS ARE CONSIDERED

- ◆ Coordination with Districts
- ◆ Coordination with appropriate MPO
- ◆ Continuity of base personnel dealing with FDOT / MPO
- ◆ Any BRAC impacts to economic development would be of interest



# TOPICS COVERED

- ◆ FDOT planning process overview
- ◆ How military installations fit into that process
- ◆ Current FDOT plans impacting military installations
- ◆ Information that would help FDOT plan better in support of military needs





# QUESTIONS?



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# Florida Defense Support Task Force

June 27, 2012

Mark Simpson  
Colonel, USAF (Ret)  
DI Founder



# Overview

- What is the Doolittle Institute?
- Partnership Intermediary Agreement
- Government, Industry and Academia Interest
- Opportunity to Leverage Federal Funding



# Why Am I Here?

- Seeking DSTF “Advocacy” for state-level funding
  - To leverage federal funding of the Doolittle Institute (DI) through a Partnership Intermediary Agreement
- DI is chartered to be:
  - An innovative environment supporting the RDAT&E missions at Eglin AFB and Hurlburt Field
  - A place for bringing together the best minds of Industry, Academia and Government to collaborate on the toughest S&T challenges
  - Champion for science, technology, engineering and mathematics education for all levels of society





# Partnership Intermediary Agreement (PIA)

- Air Force Research Laboratory (AFRL) wants to establish a PIA with the Doolittle Institute
- The PIA will be modeled after the agreement between AFRL and the Wright Brothers Institute and seeks to:
  - Enhance AFRL’s research capability with collaborative teams
  - Increase return on investment in S&T through leveraging the resources of collaborators
  - Facilitate “technology transfer” in support of USAF mission requirements and economic development
  - Note: there must be some level of state or local funding (required by 15 USC 3715)



# Team Member Examples





# Leveraging Federal Funding

- Example: Wright Brothers Institute
  - Started 2002 outside of Wright-Patterson AFB
  - May 2012, AFRL and WBI signed a new Partnership Intermediary Agreement for \$17M
- AFRL recently pushed \$950K to WBI for non-profit incubation of a Collaboration and Innovation Center outside of Eglin AFB



# What Can You Do?

- Be an “Advocate” for state-level funding to enable DI to leverage FY13 federal funding through a Partnership Intermediary Agreement with the Air Force Research Laboratory (AFRL)

“...outside the fence institutes provide AFRL an exceptional forum to accelerate open innovation, collaboration and STEM outreach...”

Maj Gen McCasland, AFRL/CC



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*Updating the January 2011 Study*



*Florida Defense Industry Economic Impact Analysis*

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A Center of the University of West Florida

**PRESENTED TO:**  
**THE FLORIDA DEFENSE SUPPORT TASK FORCE**  
David Goetsch, PhD - Chairman  
Rocky McPherson - EFI Liaison

**PROPOSED HAAS CENTER PROJECT TEAM**  
Joshua Barnick  
Rod Lewis, PhD  
Martin Roddy  
Aaron Schmerbeck  
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**ABOUT US**

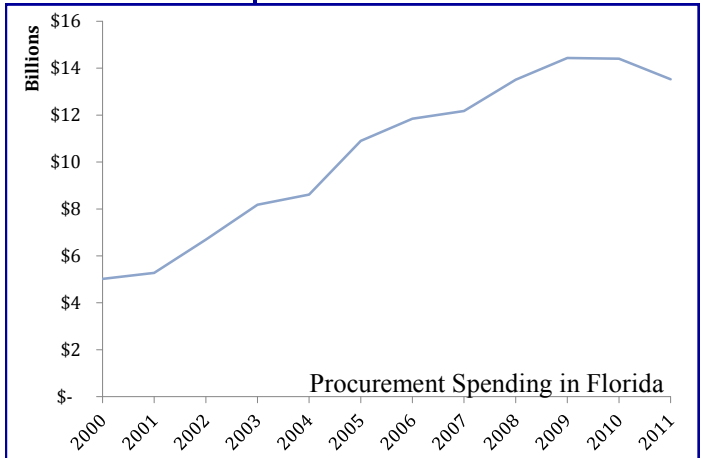
Located on University of West Florida's Emerald Coast Campus in Fort Walton Beach, Florida, the Haas Center collects, analyzes, and distributes economic data for clients seeking expert economic advice. We exist to help entrepreneurs and industry leaders--from traditional manufacturing to emerging technologies--meet their information needs in the modern economy.

The Haas Center specializes in data analysis for the purposes of economic forecasting, marketing research, business expansion, tourism, and real estate development as well as industry and academic studies. The Haas Center's staff combine academic credentials with varied experience, ranging from economists to survey specialists. Each professional combines innovation with attention to detail to produce high-quality research products for Center clients.

For further information please visit our website at [haas.uwf.edu](http://haas.uwf.edu) or contact Rod Lewis at [clewis2@uwf.edu](mailto:clewis2@uwf.edu)

## INTRODUCTION

Haas Center staff present here a proposal to update the 2010 study entitled “Florida Defense Industry Economic Impact Analysis.” The defense industry plays a critical role in the Florida economy. The latest study, produced in 2010 and based on 2008 data, determined that defense related spending is directly or indirectly responsible for \$58.1 billion, or 7.5% of Florida’s gross state product and accounts for over 686,000 jobs across the state. The threats to Florida’s defense industry - in the form of potential budget cuts - are real and present. Moreover, Florida’s procurement based economy - a key driver of high-wage, high-tech jobs in the Northwest and Central Florida - saw, for the first time in over a decade, a decline in year-over-year revenue in 2010 which persisted with another drop in 2011.



The updated analysis will, we believe, enable the Florida Defense Support Task Force and interested agencies and communities to better support a coordinated and comprehensive educational program focused on the importance of defense investment and related activities that take place within the military and commercial sectors of Florida’s economy. Our proposal includes several key changes to the overall structure of the report. First, in light of the base-level analysis currently underway, we propose eliminating Volume III as all of that work should be completed by the contracting consultants. We further propose combining and streamlining Volumes I and II into a single Volume state, regional and base-level economic impact assessment. Finally, we propose the development of an interactive website which presents state, regional and base-level (county) impacts in a more accessible and user-friendly format.

## DELIVERABLES AND TIMING

*Economic Impact Assessment.* The assessment of the economic impact of the Florida defense industry will proceed largely along the lines of past assessments. We will include, in the overall analysis, the assessment of the impacts of DoD procurement spending flows, military payrolls, retiree spending and transfer payments to support medical and educational expenditures. The study will also address net Florida spending flows due to contractor activity, recognizing that some of the DoD prime contracts awarded in Florida will call for work activity to be done in other parts of the country, and that DoD prime contracts awarded elsewhere in the country will call for work to be done in Florida.

PROPOSAL

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We propose, in order to conserve project resources, to combine Volumes I and II into a single document to include the economic impact assessments, the industry cluster profiles, basic economic and demographic data, as well as a high-level overview of potential supply chain gap issues. Key data inputs sought for the calculations include:

- Total payroll (military and civilian, by salary level)
- Non-payroll local expenditures (e.g. materials, supplies) by type
- Total value of all military contracts (by type of contract)
- Estimated inflows to defense contractors (domestic and international)
- Value of retiree spending
- Value of student trainee payrolls and spending
- Value of Reserve spending flows
- Value of educational and medical spending
- Estimated value of spending due to technology transfers.

These values will be used to calculate the total economic impact (including direct, indirect and induced impacts) by military installation, economic sector and geographic area. The Center proposes to defer the update of Volume III in order to conserve resources and avoid duplicating the work already underway by Task Force consultants.

*Factbook.* The Center will design and produce an education and information brochure package (working title: Florida Defense Industry Factbook) that is comprehensive in nature and illustrates the Defense Industry Economic Impact Analysis at the state, regional and base level. The Haas Center will utilize project funds to work with advertising specialists, Enterprise Florida Staff, Florida Defense Support Task Force Staff and others identified by the Task Force to ensure that the document meets the requirements of the broadest possible audience.

*Website.* The Center will design, produce and host an interactive website that allows visitors to click on Florida's regions and bases and observe the impacts of the defense industry to include basic economic and demographic facts, overall economic impacts, defense procurement spending flows, total jobs related to the defense industry (by type) and other key pieces of relevant information. We believe that the addition of an interactive, easily accessible website will better enable the Task Force to promote the importance of Florida's defense industry around the state.

PROPOSAL

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## STAFFING AND COST

Rod Lewis, PhD, will serve as project lead on the economic impact assessment update and will supervise all aspects of project performance, production and deliverables. Upon completion of the project, he and other staff members will remain available for presentation of results as needed. He will be supported by Aaron Schmerbeck, MS (economist) who will assist with economic modeling, Neil Vaughn MA, (analyst) who will co-lead the project, Martin Roddy (BS) who will design and maintain the website and Joshua Barnick (BS) who will handle analytics related to the procurement database (formerly DD 350). The Center will be assisted in the production of the factbook by graphic artists from the Matrix Design Team.

The draft documents and website will be delivered no later than December 14, 2013 days from the execution of the contract for a firm, fixed-price of \$139,500 with final delivery of edited documents and unveiling of the public website on or before January 15, 2013. Deliverables and payment schedules are included below.

## PAYMENT SCHEDULE

	Draft Deliverable Due 12.14.2012	Final Deliverable Due 1.15.2013	Total Cost
State, Regional and Local Impact Assessment	\$80,000	\$48,000	\$128,000
Document Design and Assembly	\$0	\$5,500	\$5,500
Factbook Printing	\$0	\$2000	\$2000
Website Design and Hosting (assumes Haas Center hosts)	\$3000	\$1000	\$4000
<b>Total</b>	<b>\$83,000</b>	<b>\$56,500</b>	<b>\$139,500</b>

PROPOSAL

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# Association of Defense Communities

Nation's premier organization serving defense communities

- **Established.** 35 years linking 200 communities, states, military, and private sector
- **Provides:**
  - Link between public and private sector
  - Venue to connect with DOD and military services
  - Forum for installations to ID and share Best Practices
  - Advisor to identify and advance policy issues
  - Resource of valuable information and educational opportunities

*Enterprise Florida has maintained membership for 3-4 years*

# Association of Defense Communities

## Four Major Focus Areas within ADC:

- **Community-Military Collaboration** – Promote value of installations and strengthen communities
- **Installation Change** – impacts on economies
- **Public/Private Partnerships** – infrastructure, energy, environmental
- **Military Families/Veterans** – Understand challenges/advance solutions

*Florida is recognized by Defense Communities  
Nation-wide as a leader in these areas*

# Annual Conference 6-9 August 2012

## Secretary of Defense Leon Panetta

- **Background**
- **Sequestration**
  - Implementation would be catastrophic (another \$500B at least)
  - “Congress must find the guts to do their job”

# Annual Conference 6-9 August 2012

## Secretary of Defense Leon Panetta (cont.)

- **New National Security Strategy** (Must reduce \$500B; but, cannot hollow out force)
  - Smaller, leaner, w/cutting-edge tech
  - Rebalance global presence (Pac & ME)
  - Maintain presence elsewhere (partners and conducting periodic rotations)
  - Maintain ability to Confront and Defeat more than 1 enemy
  - Invest in Future (space, cyber, unmanned, Reserve Components, Industrial Base)

# Annual Conference 6-9 August 2012

## Secretary of Defense Leon Panetta (cont.)

- **2013 Budget**
  - Must take \$500B cut
  - Closing European bases; recommending BRAC
  - Guidelines for 2013 Budget:
    - Maintain strongest military in world
    - Don't hollow-out force, focus cuts, efficiencies, force structure, compensation
    - Keep faith with service members, keep promises



# Annual Conference 6-9 August 2012

## Representative Sam Farr (D-CA) – Federal Budget (House Appropriations Committee; Subcommittees on MILCON and Veterans Affairs)

- Simple calculation: \$3.7T outlays, \$2.4T income (17% Defense, 17% Domestic Discretionary, rest Entitlements)
- Sequestration result of not reaching “Grand Bargain”
- Reduction in 2013 Budget is \$900B (\$487B is Defense)
- SECDEF directed “no planning” for Sequestration
- Must cut “Overhead” by 10% over next 10 years
- No effective leadership in govt - will therefore “Punt” on Sequestration

***May be a behind-the-scenes effort to reach interim, partial solution***

# Annual Conference 6-9 August 2012

## Asst Service Secretaries - Challenges Facing Communities

- Navy growing overseas (Guam, Australia, Hawaii, Singapore, Spain)
- USAF restructuring and growing at home
- Army & USMC paying the price (will reduce 100,000)
- More rotations overseas, less families overseas
- Significant investment in renewable energy
- Need Joint Land Use Studies and Enhanced Use Leases

***Florida should explore sharing service requirements with communities (utilities, police, fire, etc.)***

# **Annual Conference 6-9 August 2012**

## **Community Support for Sustaining Base Missions**

- **Florida recognized as national leader**
  - Florida Defense Alliance (FDA) activities
  - Governor's Base Commanders Meetings
  - Florida Defense Support Task Force
  - Legislative Initiatives
- **Other states beginning to move in that direction (Montana, Texas, Maryland)**

# Annual Conference 6-9 August 2012

## Community Support for Sustaining Base Missions (cont.)

- Goal is to build enhanced body of knowledge for decision makers
  - Many States require Real Estate Disclosure
  - Some have Military Preparedness Committee
  - Some put ACUIZ, etc., on County
- Revenue Opportunities
  - Many communities turning cost centers into profit centers
  - Leases, Interim Leases, Master Leases

# Annual Conference 6-9 August 2012

## Revenue Opportunities (cont.)

- Riverbank Army Ammunition Plant Redevelopment Authority
  - Government Owned Contractor Operated military industrial installation under jurisdiction of Army Joint Munitions Command
  - Virtually all available space is leased
  - \$4.4M annually in profit
  - Grants paid for almost all of their programs, including strategic communications/PR programs

***Office of Economic Adjustment (OEA) Leaning forward to assist community assessments***



# Association of Defense Communities

## Summary

- Enterprise Florida joined ADC 3-4 years ago
- Florida now recognized as National Leader in Defense support
- Florida benefits from participation in ADC
  - Another link between public and private sector
  - Outstanding opportunity for installations and communities to ID and share Best Practices
  - Venue to connect with DOD and military services

***Enterprise Florida will continue to participate***



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# Florida Defense Support Task Force Update

August 22, 2012

Mark Simpson  
Colonel, USAF (Ret)  
President



# Overview

- June 27<sup>th</sup> Review
- Status Update
- Grant Proposal



# What Can You Do?

- Be an “Advocate” for state-level funding to enable DI to leverage FY13 federal funding through a Partnership Intermediary Agreement with the Air Force Research Laboratory (AFRL)

“...outside the fence institutes provide AFRL an exceptional forum to accelerate open innovation, collaboration and STEM outreach...”

Maj Gen McCasland, AFRL/CC



# Update

- Doolittle Institute incorporated as a Florida Non-Profit on July 30, 2012
- 501c3 package (Form 1023) filed with IRS on August 21, 2012
- FY12 start-up agreement with Wright Brothers Institute finalized and \$893K funding approved
  - Initial cadre staff hiring begins in September
- Negotiations started on FY13 Partnership Intermediary Agreement with Air Force Research Laboratory





# Grant Proposal

- Purpose of Grant: Purchase of equipment related to business operations
- Total Amount: \$100K
- Award Date: On or about 1 Oct 12
- Grant Period: 1 Jan – 31 Dec 13



# Potential ROI

- Grant will leverage \$950K (FY13) of AFRL funding through a PIA between AFRL and DI
- This grant may open the door for industry to partner with/consider investing in DI
- Based on existing PIAs between AFRL and other non-profit institutes DI envisions an initial four year contract worth \$3.8M to \$5M
  - As an example, AFRL and the Wright Brothers Institute recently signed a four (4) year PIA worth over \$15M
- Supporting this initiative will bring a minimum of seven high paying jobs into the Emerald Coast area of Florida



# State Funding Example

- State of Ohio provided \$2.5M to the Dayton Development Coalition (DDC) for the start up of the Wright Brothers Institute (WBI) over a 2-3 year period (2004-2006)
- Funding was split 50-50 between equipment and technology transfer-related business support for the Ohio defense and commercial industries
- In May of 2012, a new PIA was signed between AFRL and WBI. There was new state-level funding (approx \$350K) through the DDC to support the PIA



# Recommendation

- FDSTF approve \$100K grant through E-Florida to Doolittle Institute



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# Partnership Intermediary Agreement (PIA)

- Air Force Research Laboratory (AFRL) wants to establish a PIA with the Doolittle Institute
- The PIA will be modeled after the agreement between AFRL and the Wright Brothers Institute and seeks to:
  - Enhance AFRL’s research capability with collaborative teams
  - Increase return on investment in S&T through leveraging the resources of collaborators
  - Facilitate “technology transfer” in support of USAF mission requirements and economic development
  - Note: there must be some level of state or local funding (required by 15 USC 3715)



## September 24, 2012 – FDSTF Update

FDSTF members –

1. Next meeting -- Please mark your calendars for our next meeting on Wednesday, October 24, 2012. We are working on finalizing the location this week, but plan on being in the Destin area for this meeting.
2. Staff to meet with The Principi group in Washington late this week -- Rocky and I will be travelling to Washington, DC this week to work with them on organizing and categorizing the recommendations for Task Review in the next few weeks. Our intent is to provide the Task Force a more concise rendering of the report for inclusion into the Task Force's Strategic Plan.

Regards, BG.

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Articles of Interest –

DOD Budget Cuts –

**FL: Nelson, Mack join forces to halt military sequestration and delay federal budget cuts**

<http://watchdog.org/56688/fl-bill-nelson-connie-mack-join-forces-to-halt-military-sequestration-and-put-off-cuts-to-federal-budget/>

Florida Watchdog © September 18, 2012

By [Yaël Ossowski](#)

Even in the heat of the campaign season, Florida's top candidates for U.S. Senate find themselves in agreement about not cutting federal spending — for the military, at least. Both U.S. Rep. Connie Mack and U.S. Sen. Bill Nelson are protesting the automatic sequestration cuts to the military budget. In the latest bout between Republican U.S. Rep. Connie Mack, of District 14, and Democratic U.S. Sen. Bill Nelson, the men are clamoring to protest \$500 billion in triggered military sequestration cuts, which go into effect Jan. 1. The cuts are the result of last year's failed Super Committee, which was tasked with finding ways to trim federal spending.....

## **Senate Prepares to Consider Stopgap Spending Bill**

<http://www.defensecommunities.org/senate-prepares-to-consider-stopgap-spending-bill/#>

Defense Communities 360 © September 18, 2012

Reconvening today, the Senate is expected to consider this week a House-passed bill to keep the government running through March. The bill passed overwhelmingly in the House and is supported by the White House, which negotiated the language with Congressional leaders. The six-month continuing resolution gives time for the FY 2013 appropriations process to continue in the lame duck session or early next year.....

## **Gates, Mullen Blast Congress for Looming Cuts**

<http://www.defensecommunities.org/gates-mullen-blast-congress-for-looming-cuts/#>

Defense Communities 360 © September 17, 2012

Former Defense Secretary Robert Gates and former Joint Chiefs of Staff Chairman Adm. Mike Mullen showed little optimism Monday that Congress will find a bipartisan solution to stop the across-the-board spending cuts planned to take effect Jan. 2. Gates and Mullen appeared together on a panel at the Center for Strategic & International Studies. Gates called the cuts “mindless” and said he hopes “whatever adults remain in the two political parties” can work together on a solution in the lame duck session after the election, according to *CQ*.....

## **Sequestration Report Reveals Few New Details**

<http://www.defensecommunities.org/sequestration-report-reveals-few-new-details/#>

Defense Communities 360 © September 16, 2012

The 394-page report released Friday by the White House intended to provide a detailed picture of the impact of \$109 billion in government-wide spending reductions provided very little new information beyond reinforcing previous warnings that the cuts would be “deeply destructive to national security, domestic investments and core government functions.” The impact on defense programs essentially can be boiled down to the report’s estimate that funding for each defense account would be reduced by 9.4 percent if sequestration is imposed on Jan. 2, according to the [Office of Management and Budget \(OMB\) report](#).....

## **Not a Pretty Picture**

<http://www.airforce-magazine.com/Pages/HomePage.aspx>

Air Force-Magazine.com © September 18, 2012

Budget sequestration could have a "near-catastrophic" effect on the Air Force's KC-46A tanker program, said Maj. Gen. John Thompson, who oversees the project, in a briefing at AFA's Air & Space Conference outside Washington, D.C., on Sept. 18. "Depending on how sequestration is implemented, I might have to break my fixed-price contract that I got a really good deal on," Thompson later told reporters at the conference. He added, "If I have to break my fixed-price contract, then I stand the potential to lose out on some of the great things that we put in this vehicle. So, the bottom line is I don't want to break my contract." KC-46A developer Boeing is operating under a fixed-price-incentive contract valued at \$4.9 billion for the tanker's engineering and manufacturing development phase.....

## **New Budget Request Won't Consider Potential for Sequester, DOD Says**

<http://www.defensecommunities.org/new-budget-request-wont-consider-potential-for-sequester-dod-says/#>

Defense Communities 360 © September 19, 2012

Pentagon planners crafting the fiscal 2014 budget request ignored the possibility that the department will need to find \$500 billion in further savings over the coming nine years, according to a DOD official. “As we have said before, we are not planning for sequestration to take place, and that includes our work on the [FY] ’14 budget,” DOD spokeswoman Lt. Col. Elizabeth Robbins told the Hill after the heads of all federal agencies submitted their FY 2014 proposals to the Office of Management and Budget last week.....

## **Top Dems Urge GOP To Cancel Recess, Address Sequestration**

<http://www.defensenews.com/article/20120920/DEFREG02/309200002/Top-Dems-Urge-GOP-Cancel-Recess-Address-Sequestration?odyssey=tab|topnews|text|FRONTPAGE>

Defense News © September 20, 2012

By John T. Bennett

Top Democratic leaders are pressing U.S. House Speaker Rep. John Boehner to cancel a six-week recess, saying the lower chamber should stay in Washington and pass legislation that would avoid deep federal spending cuts. "Democrats do not believe the House should recess this week, or at all, until we have met our responsibilities to the American people," House Minority Leader Rep. Nancy Pelosi of California, House Minority Whip Rep. Steny Hoyer of Maryland, and other Democrats wrote in a Sept. 20 letter to Boehner. "Our nation can ill-afford economic uncertainty that will result from Congress remaining idle for another six weeks." .....

## **While Hill Flails About On Sequestration, CR Lurches Along**

<http://defense.aol.com/2012/09/20/while-hill-flails-about-on-sequestration-cr-lurches-along/>

Defense AOL.com © September 20, 2012

By [Colin Clark](#)

Hours after a House Armed Services Committee on sequestration elicited bitter laugh after bitter laugh from a roomful of observers while the two sides threw figurative spitballs at each other, the Senate almost, but not quite, passed a Continuing Resolution to keep the U.S. government funded for another six months. Sen. Daniel Inouye, the chairman of the Senate Appropriations Committee (and head of the defense subcommittee) told his esteemed colleagues on the Senate floor that he supported the bill, "even though it is far from perfect." How bad is it? "In fact, I would say that it is not a particularly good bill, but passing it is much better than allowing the Government to shut down over a lack of funding." .....

## **Furloughs remain a recurring theme in forecasting sequestration's impact**

<http://www.govexec.com/defense/2012/09/furloughs-remain-recurring-theme-forecasting-sequestrations-impact/58259/?oref=river>

Government Executive © September 20, 2012

By [Charles S. Clark](#)

On the eve of a vote to adjourn Congress until after the elections, top military and civilian Defense Department officials unveiled new details on the harm that looming across-the-board budget cuts would inflict if they kicked in this January. Warning two House panels of impending cuts to stateside training and a need to renegotiate recent contracts, officials avoided delving down to the level of specific programs and they steered clear of taking sides in Congress' ongoing political stalemate over the budget. "I contend we're already in sequestration, that jobs are being lost and things are getting cut off," House Armed Services Committee Chairman Buck McKeon, R-Calif., told a hearing. "As far as I'm concerned, the DoD shuts down in January." .....

## **Waiting for Sequestration is a Little like Waiting for Godot**

<http://www.defensecommunities.org/waiting-for-sequestration-is-a-little-like-waiting-for-godot/#>

Defense Communities © September 20, 2012

Most everyone in Washington agrees that the potential for \$500 billion in automatic spending reductions through 2021 should be reversed to avoid devastating the military, but with the deadline for addressing the matter more than three months away, the two parties still haven't sat down to bridge their differences and stop the sequester from going into effect. So, we're left with a tactical battle of wits, with political calculations over November's election taking precedence over a legitimate attempt to resolve the looming crisis.....

## **Blank-Rome Update**

Blank-Rome © September 21, 2012

## **House Panel Holds Final Sequestration Hearing Before Elections**

The House Armed Services Committee (HASC) met on September 20th to hear testimony on the Department of Defense (DOD) plans for sequestration implementation and the effects that sequestration could have on the military. The hearing was the latest in a series of HASC hearings that have dealt with sequestration, and the final chance for members of Congress to

hear about the implementation of sequestration and its potential impacts prior to the elections and subsequent lame-duck session of Congress. The hearing featured testimony from Pentagon Comptroller Robert Hale and the Vice Chiefs of Staff from the Army, Navy, and Air Force, as well as the Assistant Commandant of the Marine Corps.

HASC Chairman Buck McKeon (R-CA) conducted Thursday's hearing amidst Republican criticism of the Administration's recent report on the implementation of sequestration and Democratic criticism of the Chairman for holding multiple sequestration hearings. The Administration was required by the Sequestration Transparency Act (STA) to issue the report to Congress.

Thursday's hearing was another example of partisan political posturing, with little discussion of policy solutions. As has been the case in the previous sequestration hearings held by HASC, the witnesses and all members of the committee were in agreement that sequestration would have catastrophic effects on national security. The witnesses provided similar general areas of concern, including: the cuts to overseas contingency operations (OCO), cuts to civilian personnel, negative effects on investment programs and modernization, cuts to operation and maintenance budgets, and an overall weakening of the force.

In other sequestration related news, many lawmakers and Pentagon officials, including Senator John McCain (R-AZ) and Deputy Defense Secretary Ashton Carter, said on Thursday they could accept delaying the sequester if it could not be avoided. "It's kicking the can down the road, but it's better than the alternative," Sen. John McCain (R-Ariz.) told POLITICO. "I would do anything to prevent what's going to happen. ...

## **Sequester Would Fall Heavily on Facilities, Base Operations, DOD Comptroller Says**

<http://www.defensecommunities.org/sequester-would-fall-heavily-on-facilities-base-operations-dod-comptroller-says/#>

Defense Communities 360 © September 20, 2012

The Pentagon's intention to shift funds to partially shield wartime funding from the automatic spending reductions set to be imposed in January will result in deeper cuts in the department's base budget for operations and maintenance, particularly for the Army and Marine Corps, DOD Comptroller Robert Hale told lawmakers Thursday. "For example we would consider imposing disproportionate cuts in funding for facilities sustainment, restoration and modernization except for those funds related to safety and critical missions," Hale stated in the written testimony he submitted to the House Armed Services Committee.....

## **Senate Vote on Stopgap Spending Measure Expected this Weekend**



<http://www.defensecommunities.org/senate-vote-on-stopgap-spending-measure-expected-this-weekend/#>

Defense Communities 360 © September 20, 2012

The Senate moved one step closer to taking up a six-month continuing resolution after approving a motion on Thursday to proceed to the fiscal 2013 spending measure. A vote on the spending bill would take place over the weekend unless Senate leaders find a quicker way to bring the continuing resolution to the floor, reported CQ Today. An attempt by Sen. Rand Paul (R-Ky.) to debate a bill to cut off aid to Pakistan, Libya and Egypt so far has prevented the chamber from getting to the stopgap earlier. Regardless of when the Senate votes on the spending bill, its approval is virtually guaranteed. The House passed the measure last week.....

## **Simpson-Bowles Re-Emerges as Framework for Compromise**

<http://www.defensenews.com/article/20120923/DEFREG02/309230002/Simpson-Bowles-Re-Emerges-Framework-Compromise?odyyssey=tab|topnews|text|FRONTPAGE>

Defense News © September 23, 2012

Simpson-Bowles is back. Several small groups of U.S. senators from both political parties are quietly trying to piece together legislation that would avoid twin \$500 billion cuts to national defense and domestic programs. While those lawmakers and their aides are tight-lipped about the ideas being bandied about, there appears to be a common starting point: a set of proposals first put forward in 2010 by a presidentially created commission. "It's definitely in play — at least parts of it are," Sen. Claire McCaskill, D-Mo., said.....

## **Sequestration Could Lead to More Expensive KC-46A Tankers**

<http://www.airforce-magazine.com/Pages/HomePage.aspx>

Air Force-Magazine.com © September 24, 2012

If the Air Force must break its fixed-price contract with Boeing for the KC-46A tanker due to budget sequestration, it might end up paying more for the new tankers and perhaps acquiring less of them over time, said Gen. Larry Spencer, Air Force vice chief of staff, last week. "I'd say upfront that we wouldn't at this point plan to cancel the contract," he told the House Armed Services Committee on Sept. 20 during a hearing

on sequestration's impact. He continued, "But depending on the amount of the cut" to the KC-46 program, "we would have to open up that contract" to revise the payment schedule. Should that happen, "I would guess the contractor would then talk to us about, 'OK, well, we can't give you as many airplanes on the schedule that you asked for.'....."

## **Sequestration's Slow-Motion Punishment**

<http://www.airforce-magazine.com/Pages/HomePage.aspx>

Air Force-Magazine.com © September 24, 2012

If Congress fails to reach an agreement to stave off sequestration's automatic budget cuts next year, the defense industry will feel the pain well beyond 2013. Why? Because the largely across-the-board budget cuts brought on by sequestration will reduce the Defense Department's budget *authority*. But what industry really cares about are *outlays*, explained Todd Harrison, senior fellow at the Center for Strategic and Budgetary Assessments, on Sept. 18 at AFA's Air and Space Conference outside Washington, D.C. It will take three-to-five years for a one-year sequester cut to work its way through the acquisition system, said Harrison, simply because of the time lag between when equipment is ordered and when it is delivered. This means the sequester is not a one-year event, but "a long-term problem," he said.....

## **Over Time, Sequestration Would Force Cuts in Military Personnel, Comptroller Says**

<http://www.defensecommunities.org/over-time-sequestration-would-force-cuts-in-military-personnel-comptroller-says/#>

Defense Communities 360 © September 23, 2012

Although military personnel would be exempt from automatic spending cuts in fiscal 2013, the Pentagon would need to significantly trim its end strength and units if sequestration continues through FY 2021, according to the written testimony DOD Comptroller Robert Hale delivered to the House Armed Services Committee on Thursday. President Obama decided to shield military personnel from the cuts next year, but that wouldn't be possible beyond FY 2013 because it would leave too many units and not enough funds to train and equip them, Hale stated.....

Space Coast –

### **EDC receives grant for military base retention**

[http://www.floridatoday.com/article/20120918/BUSINESS/309180016/EDC-receives-grant-military-base-retention?odyssey=tab%7Ctopnews%7Ctext%7CBusiness&nclick\\_check=1](http://www.floridatoday.com/article/20120918/BUSINESS/309180016/EDC-receives-grant-military-base-retention?odyssey=tab%7Ctopnews%7Ctext%7CBusiness&nclick_check=1)

Florida Today © September 17, 2012

\$75,000 grant to support military base retention has been awarded to the Economic Development Commission of Florida's Space Coast by Enterprise Florida. Brevard County is one of 11 Florida communities with military installations that will receive a portion of \$850,000 in 2012-13 Defense Reinvestment Grants, which support base retention. The state awards the grants annually on a project priority basis. More specifically, the reinvestment grants must be part of a plan to help a military base support the local economy.....

Tyndall AFB –

### **Gov. Scott announces \$850,000 in Defense Reinvestment Grants.... including The Bay Defense Alliance \$100,000**

<http://baycountypress.com/2012/09/17/gov-scott-announces-850000-in-defense-reinvestment-grants-including-the-bay-defense-alliance-100000/>

Bay County Press © September 17, 2012

By [TheCountyPressEditor](#)

Gov. Rick Scott today announced that 11 Florida communities with military installations collectively will receive \$850,000 in 2012-13 Defense Reinvestment Grants, which support base retention and economic diversification efforts. The state awards the grants annually on a project priority basis to organizations in military communities. Enterprise Florida administers the program, which helps Florida's sustain its reputation as the U.S.' most military-friendly state. "Florida continues to be the best place in the nation for military service members and their families to live and work," said Governor Rick Scott. "The Defense Reinvestment Grant helps maintain vital missions at Florida's military installations while fostering a cooperative relationship between the military and the community.".....

MacDill AFB –

## **Defense grants find Tampa Bay**

<http://www.review.net/section/detail/defense-grants-find-tampa-bay/>

Gulf Coast Business Review © September 18, 2012

BY: GULF COAST BUSINESS REVIEW

Two Tampa Bay communities received funds as part of the state's 2012-2013 Defense Reinvestment Grants program. Enterprise Florida awarded \$850,000 total in grants to 11 communities with military installations. According to a release, the state awards the grants based on a community's plan to fulfill the needs of its military installation or help diversify its economy away from being dependent on defense spending. Hillsborough County received \$75,000 through the Greater Tampa Chamber of Commerce, and Pinellas County received \$50,000. According to the Tampa chamber, its application for funds was part of a multi-organizational effort that included the Tampa Hillsborough Economic Development Corp. and the Tampa Bay Defense Alliance.....

NAS Jacksonville –

## **Jacksonville to hire military lobbyist, paid for with state grant**

<http://jacksonville.com/opinion/blog/403455/timothy-gibbons/2012-09-18/jacksonville-hire-military-lobbyist-paid-state-grant>

The Florida Times-Union © September 17, 2012

By [Timothy Gibbons](#)

Jacksonville will be hiring a Washington, D.C.-based lobbyist to advocate for the city getting more ships, personnel and other assets, the city said in a release. The position will be paid for by a \$95,000 Defense Reinvestment Grant from the state economic development organization, Enterprise Florida. Jacksonville is one of 11 recipients splitting the \$850,000 grant. Okaloosa County, home to Eglin Air Force Base and Hurlburt Field, will get \$125,000 the biggest piece of the grant. With an annual impact of \$12.2 billion, the military is the largest economic engine in Jacksonville, and the Defense Reinvestment Grant will help leverage more resources to increase its economic impact, the city's release said.....

NAS Pensacola –

## **Escambia, Santa Rosa Receive \$110K In Grants**

<http://www.northescambia.com/2012/09/escambia-santa-rosa-receive-110k-in-grants>

North Escambia.com © September 17, 2012

Escambia and Santa Rosa counties will share in \$850,000 in defense reinvestment grants announced Monday. In all, 11 Florida communities with military installations will receive the grants to support diversification of the area economies for helping keep military facilities open. “Florida continues to be the best place in the nation for military service members and their families to live and work,” Scott said. “The Defense Reinvestment Grant helps maintain vital missions at Florida’s military installations while fostering a cooperative relationship between the military and the community.” Each of the grants will be used to fulfill the needs of a military installation or help defense-dependent communities develop strategies for expanding their non-defense economic base. Activities can include studies, presentations, analyses, plans, marketing, modeling, and reasonable travel costs.....

Other Items of Interest ---

## **Editorial: Military grants welcome**

[http://www.pnj.com/article/20120921/OPINION/309210002/Editorial-Military-grants-welcome?odyssey=mod%7Cnewswell%7Ctext%7CBeaches%7Cs&nlick\\_check=1](http://www.pnj.com/article/20120921/OPINION/309210002/Editorial-Military-grants-welcome?odyssey=mod%7Cnewswell%7Ctext%7CBeaches%7Cs&nlick_check=1)

Pensacola News-Journal © September 20, 2012

We always appreciate a visit to Northwest Florida from Gov. Rick Scott. The trips to the Panhandle are especially welcome when he brings checks. Earlier this week, Scott delivered news that the area would be receiving military grants totaling \$110,000. Specifically, the Greater Pensacola Chamber will receive \$70,000 while Santa Rosa County will get \$40,000. The Chamber said the money will be used to develop new industry with an eye on aerospace and cyber security, among other goals, a news release said. At the same time, Santa Rosa will use the money to strengthen the civilian relationship with Whiting Field Naval Air Station, a key employer and important neighbor north of Milton for decades.....

## **11 counties with military installations get grants**

<http://www.theledger.com/article/20120917/APN/1209170708>

The Ledger © September 17, 2012

The Associated Press

Gov. Rick Scott says \$850,000 in grants will be awarded to 11 Florida communities with military installations. The 2012-2013 Defense Reinvestment Grants are intended to maintain those bases and support efforts to diversify the economies in those communities. Enterprise Florida administers the grant program. Scott's office said Monday that the military and defense sector has a \$60 billion economic impact on the state, providing more than 686,181 jobs. The counties receiving the grants are: Bay, Brevard, Clay, Duval, Escambia, Okaloosa, Hillsborough, Miami-Dade, Orange, Pinellas and Santa Rosa.....

## **FL: Bill Young's change of heart signals Afghan war shift for GOP**

<http://watchdog.org/56812/fl-bill-youngs-change-of-heart-signals-afghan-war-shift-for-gop/>

Florida Watchdog © September 20, 2012

By Yaël Ossowski

As a lawmaker who has been in federal office since the Vietnam War, U.S. Rep. Bill Young has never shied away from advocating American intervention and military power abroad. At the peak of his 41 year career, he chaired — from 1999-2005 — the powerful Appropriations Committee, directly responsible for allocating trillions of dollars to fund the American government, making his name as a supporter and defender of military interests and combat gear, renewing every Defense Department request for more funding for contingency operations in Iraq, Afghanistan and elsewhere. But despite the battles of yesteryear for which he has constantly lent his support, the 81-year-old congressman has had a change of heart when it comes to the ongoing war in **Afghanistan**, now the longest conflict in U.S. history that has seen 2,121 American lives lost since 2001, with no clear sign of exit until at least 2014, according to NATO.....

## **Alabama Commission Seeks Consultant to Assess Impact of Budget Cuts**

<http://www.defensecommunities.org/alabama-commission-seeks-consultant-to-assess-impact-of-budget-cuts/#>

Defense Communities 360 © September 20, 2012

The Alabama Military Stability Commission through its Foundation has issued a request for information (RFI) to possible consultants interested in assisting Alabama's efforts to address the



impact of DOD budget reductions and possible sequestration in anticipation of any future BRAC action by DOD. The RFI requests responses in five areas:

- changes in military missions, costs, and SWOT analysis;
- changes to Guard and Reserve assets;
- develop media campaigns in Alabama and Washington, D.C., area;
- mission value improvements in local communities; and
- advocacy and monitoring issues related to the armed services, Congress, defense industry and other states.....



## ***Mission***

**To advocate with purpose and passion for Florida veterans and link them to superior services, benefits and support**

## ***Vision***

**FDVA is the premier point of entry for Florida veterans to access earned services, benefits and support**

**[www.FloridaVets.org](http://www.FloridaVets.org)**

**(727)-319-7440**

## **Outreach to returning veterans, with Post Traumatic Stress Disorder and Traumatic Brain Injury**

- **Ward visits to TBI Units**
- **Post Deployment Health Reassessment (*PDHRA*)**
- **Yellow Ribbon Reintegration, National Guard and Transition**
- **FDVA attended 78 events**

## **Outreach to Reduce Veteran Suicides**

- **1-800-273-Talk(8255) Veterans Crisis Line**
- **Brochures, Counseling**

## **Outreach to Combat Casualties Returning to Florida**

- **Tracking in FDVA VBolts**
- **In Partnership with USDVA**
- **Iraq: Operation Iraqi Freedom (OIF)**
- **Afghanistan: Operation Enduring Freedom (OEF)**

## Outreach in VA Health Care Eligibility

- **FDVA Outreach January – August 2012**
- **Attended 355 Events**
- **Provided Benefits Awareness to 23,110**



*FDVA Mobile App*





# Presentation

to the

# Florida Defense Support Task Force



## September 19, 2012









A community of  
 organizations working  
 together to accomplish  
 their respective missions  
 with a common goal of  
*improving human  
 performance through  
 simulation*





# Collaborative Alliance



## Team

*Supplemented, Supported and Augmented by*

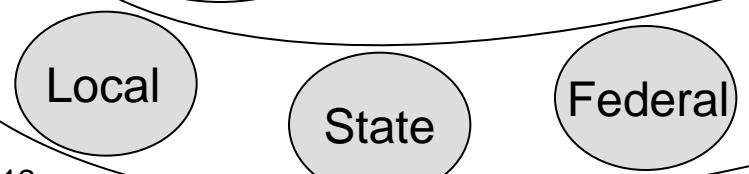
Unique Collaboration of  
Leading Military  
Simulation  
Commands

  
NCS & 190+  
Industry Leading  
Businesses

  
UCF and Others  
from Academia

*All Supported by  
Government Offices and Committees*

## Orlando





# Why Team Orlando



## THE WARFIGHTER !

- Provide an inter-service military partnership in Central Florida which leverages collaboration of technologies and lessons learned related to training and simulation issues.
- Emphasize effective employment of new technologies, Academia and Industry to minimize costs and maximize products and services to Warfighters.
- Four Services, Coast Guard, Joint Staff and DHS locally represented
- Leverage approximately \$5B annual obligation across all Services



# Defense



## The Services' primary simulation and training acquisition and sustainment organizations



**NAWCTSD, Naval Air Warfare Center Training Systems Division**



**PEO STRI, U.S. Army Program Executive Office for Simulation, Training and Instrumentation**



**PM TRASYS, Marine Corps Program Manager Training Systems**



**TSPG, Air Force Training Systems Product Group**



# Other Federal Organizations



- ADL Co-lab**      **Joint Advanced Distributed Learning Co-laboratory**
- AFAMS**        **Air Force Agency for Modeling & Simulation**
- AF SG**         **Air Force Medical M&S Training Program Office**
- ARI**            **Army Research Institute**
- ARL**            **Army Research Laboratory**
- FLETC**        **Department of Homeland Security**  
**Federal Law Enforcement Training Center**  
**Orlando Technology Integration and Simulation Team**
- JTIEC**         **Team Orlando Joint Training Integration and Evaluation Center**
- STTC**         **US Army Simulation & Training Technology Center (STTC)**
- VA**            **Veteran's Health Administration Medical SimLEARN Center**





# Academia



## University of Central Florida - UCF



- **2nd largest university in the United States**
  - 58,698 total students
  - 56,000 students in central Florida
  - From all 50 states and 141 countries
  - 207,000 alumni
- **211 academic programs**
  - Masters and Ph.D. programs in M&S
  - Medical School







# Industry Resources



**Silicon Graphics**

**MITRE**

**AEgis**

**Northrop Grumman**

**Camber**

**Lockheed Martin**

**Boeing**

**Raytheon**

**SAIC**

**L3 Com**

**SimiGon**

**JHT**

**Booz Allen**

**DRC**

**SAAB**

**HealthSoft**

***OVER 190 PLAYERS***

**BARCO**

**Engineering & Computing Simulations**

**Metters**

**Simulation Entertainment**

**Rockwell Collins**

**CSC**

**Concurrent**

**Disney**

**CAE**

**Cubic**

**AT&T**

**Southwest Research**

**Systems Research**

**General Dynamics**



# Team Orlando Capabilities



## SKILL SETS

- **Full Service Life Cycle Acquisition**
  - Program Management
  - Engineering
  - Contracting
  - Financial Management
- **Instructional Systems Design**
- **Human Performance Engineering**
- **Medical simulation**
- **Games/Virtual Worlds**
- **Test and Evaluation**
- **Support to the Global War on Terrorism**
- **Live-Virtual-Constructive (LVC) Integration**
- **Target & Threat Systems**
- **Training Ranges**

## PRODUCTS

- **New/Modified Full System and Part Task Trainers**
  - Weapon Systems
  - Aircrew
  - Maintenance
  - Tactics
- **Training Services**
  - Instructor Services
  - Operation & Maintenance Services
- **Training Content**
  - Courseware
  - Curriculum
- **Intellectual Services**
  - Research & Development
  - Analysis



# Synergies from Proximity

Georgia Tech  
Research Institute

JTIEC,  
DDJ7

GENERAL  
DYNAMICS

AT&T

Institute for  
Simulation &  
Training

Partnership 2

ARMY  
NAVY  
MARINE CORPS

National Center  
for Simulation

Partnership 3

ARMY

AIR FORCE

ARMY

UNIVERSITY  
High School

LOCKHEED  
MARTIN

L3 COM

ARMY

Army Research Institute (ARI)  
Simulation & Trng Technology  
Center (STTC)

Partnership 1

NAVY  
FLETC

Booz-Allen &  
Hamilton

RAYTHEON

ARMY  
NAVY  
COAST GUARD

NORTHROP  
GRUMMAN

ARMY

JOINT ADL CO-LAB,  
DAU,  
VA

ARMY

SAIC



# Federal Activities



UCF

Central Florida  
Research Park

JTIEC,  
DDJ7

•ARI  
•ARL-STTC

•NAWCTSD  
•FLETC Liaison

•PEO STRI  
•NAWCTSD  
•PMTRASYS

Partnership 2

Partnership 1

Research Gate (ACP)

Joint  
ADL Co-Lab

Partnership 3

•NAWCTSD  
•NSA  
•PWD  
•Coast Guard  
•PEO STRI

•PEO STRI

•PEO STRI

•AFAMS

Science Gate (ACP)

•PEO STRI

- NSA Orlando Secured - Boundary DoD
- - NSA Orlando Property Un-Secured
- - State / UCF Unsecured - Boundary
- - Commercial Lease Unsecured Boundary





# Team Orlando Space Considerations



## What is Team Orlando?

- Central Florida's **unique collaborative alliance** of leading modeling and simulation commands from 4 **military** services - augmented, supplemented and supported by **academia and industry**
- Individually accomplishing respective missions while coming together with a common goal of **"improving human performance through simulation"**
- Partnered to minimize costs and maximize capabilities for the Warfighter
- Business base of \$5B + per year

- 35% percent of space requirement to be met with leased space if no other solution is pursued
- Leased space is 300% more expensive than government space
- Organizations that heavily rely on leased space are consistent BRAC targets
- The most desirable alternative is building/acquiring government space

## Demographics

<u>Command</u>	<u>FY10 staff</u>	<u>FY15 staff**</u>
NAWCTSD/NSA Orlando	1188	1281
PEO STRI	1144	1460
PM TRASYS/TECOM	238	289
RDECOM STTC	116	116
AFAMS	65	79
Others	41	66
<b>TOTAL</b>	<b>2792</b>	<b>3291</b>

Average salary is ~ \$81K per year

## Space Requirements (in sq ft)

<u>Year</u>	<u>Gov Space Available*</u>	<u>Requirement</u>	<u>Delta</u>
FY10	399,974	525,617	125,643
FY15**	399,974	619,468	219,494

Delta may be partially met (60,000 sq ft) through Military Construction project – requested but unfunded

\*Includes DoD and Partnership 1, 2 & 3 Buildings

\*\* Data Currently being updated

# Growth Continues To Outpace Space Available!



# Joint Training Integration and Evaluation Center



## Leveraging Training and Human Performance Expertise



### Missions:

- 1) Operations office for Team Orlando
- 2) Coordinate human performance & training solutions to/from the Joint and OGA communities for Team Orlando
- 3) Program management for cross-cutting Inter-Service or Joint projects

JTIEC Director  
Mr Kent Gritton

JTIEC Deputy Director  
Dr Bill Hopkinson





**Provide consistent, effective and efficient shore installation support services to all tenant DoD agencies enabling their mission accomplishment in a joint services environment.**

PERSONNEL (FY12)	NSA	PWD
CIVILIAN WORKFORCE	27	8
MILITARY	1	1
CONTRACTOR	0	0
<b>Total</b>	<b>28</b>	<b>9</b>

### CURRENT CAPABILITIES

- Physical Security for all DoD components
- Full Range of Public Works Support including construction, maintenance and BOS Services
- Disaster Preparedness & Emergency Management to DoD components

NAVY: NAWCTSD, HPC, NEX

MARINE CORPS: PMTRASYS

USA: PEO-STRI

USAF: AFAMS

DHS: USCG Liaison Office, FLETC

JOINT: Joint ADL Co-Lab, JDIF

3 Naval Operational Support Centers:  
Orlando, Tampa, and St. Petersburg

### FINANCIAL INFORMATION FY12 Business Base - \$7.5 Million

Civil Servant Labor	\$2.8M
CSS	\$0.0M
Other Mission Cost	\$4.7M <sup>***</sup>
<b>Total Cost of Operations</b>	<b>\$7.5M</b>



# NAWCTSD



## OVERVIEW

NAWCTSD is the principal Navy center for research, development, test and evaluation, acquisition and product support of training systems;  
 We provide Interservice coordination and training systems support for the Army and Air Force, and we perform such other functions and tasks as directed by higher authority.

### PERSONNEL (FY12)

#### CIVILIAN WORKFORCE

Orlando Site	891
Field Sites	125
Interns	59

#### MILITARY

IA	0
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#### CONTRACTOR

Total	1,202 *
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### HIGHLY SKILLED WORKFORCE

78% Bachelors or Higher  
 91% DAWIA Certified  
 34 Doctorates

### FINANCIAL INFORMATION (FY12)

#### Business Base - \$1.25 Billion

Civil Servant Labor	\$ 109.5 M
CSS	\$ 12.6 M

**Total Cost of Operations \$122.1 M**



Provide a full range of innovative products and services that provide complete training solutions.

### PRODUCT LINE

- Training Systems
- Training Services
- Training Content
- Intellectual Services

### PROJECT MANAGEMENT

#### ENGINEERING

- Front-End Analysis
- Human Factors
- Effectiveness Evaluation
- Instructional Systems Development
- Systems Engineering
- Aerodynamics Modeling & Simulation
- Computer Network Integration
- Software Development / Integration
- Test and Evaluation
- Prototype Development

### CONTRACTING

#### FINANCIAL MANAGEMENT

#### OPERATION AND LIFE-CYCLE SUPPORT

#### RESEARCH AND DEVELOPMENT





# NAWCTSD



## PRODUCT LINE

### TRAINING SYSTEMS

- New/Modified Training Systems
  - Aircrew Trainers
  - Operational Flight Trainers
  - Weapon Systems Trainers
  - Maintenance Trainers
  - Shiphandling Trainers
  - Tactics Trainers
  - Engineering / Damage Control Trainers



AV-8B



TaCOVE



### TRAINING SERVICES

- Operation & Maintenance Services
- Instructor Services
- COTS Courseware Acquisition
- Full Spectrum Services



NSS CBT



### TRAINING CONTENT

- Courseware Development
- Curriculum
  - New Development
  - Updates

### INTELLECTUAL SERVICES

- Research & Development
  - Experimentation & Studies
  - Prototypes
  - SBIR
  - Protection of Human Subjects
- Analysis
  - Front End Analysis
  - Requirements Analysis
  - Media Selection
- Work Year Support

PEO STRI is the acquisition and contracting center for live, virtual and constructive training aids, devices, simulations and simulators for the U.S. Army. We provide life-cycle management of interoperable training, testing and simulation solutions for Warfighter readiness and the defense community.



We provide a full range of innovative products & services that provide responsive training & testing solutions

- Training Systems
- Support Services
- Targets and Threat Systems
- Overseas Contingency Operations
- Project Management
- Engineering
  - Systems Engineering
  - Software Engineering
  - Product-Line Development
  - Computer-Generated Forces
  - Synthetic Natural Environments
  - Instrumentation
  - C4ISR Simulation
  - Test and Evaluation
  - Optics/Lasers
  - Human Factors
  - Sustainment Engineering
- Contracting
- Financial Management
- Operations and Maintenance
- Research and Development

### FINANCIAL INFORMATION FY12

DIRECT MISSION	\$ .728 B
SUPPORT MISSION	\$1.476 B
FOREIGN MILITARY SALES	\$ .280 B
<b>TOTAL</b>	<b>\$2.484B</b>

### PERSONNEL (FY12)

MILITARY	41
CIVILIANS	807
Navy Matrix	13
OGA (AL/TX)	31
CONTRACTORS	<u>391</u>
<b>TOTAL</b>	<b>1283</b>





Life Cycle Support

## Training Systems

- Interoperable Live-Virtual-Constructive
  - Computer-Generated Forces
  - Synthetic Natural Environments
- Combat Training Centers
- Deployable Training Support

## Support Services

- Worldwide Contractor Logistical Support
- Instructional Services to Intel School
- Full Spectrum Live-Virtual-Constructive Training Services
- Omnibus Contracts for Responsive Support

## Targets and Threat Systems

- Research and Development
- Design and Acquisition
- Fielding and Sustainment
- Targets
- Threat Simulators

## Overseas Contingency Ops

- Support to Warfighters
  - Mobile MOUT
  - HMMWV Egress Assistance Trainer (HEAT)
  - Engagement Skills Trainer (EST 2000)
  - Medical Support Training Center (MSTC)
  - IED Trainer (TIED)
  - Common Driver Trainer for MRAP
  - Medical Simulation Training
  - Call for Fire Trainer (CFFT)
  - Advanced Gunnery Training System (AGTS)
  - Deployable Instrumentation Training System (DITS)







# PROGRAM MANAGER TRAINING SYSTEMS

Program Manager Training Systems (PM TRASYS) is the Marine Corps Systems Command's program manager assigned the responsibility to provide training support services, and development, delivery, and life-cycle sustainment of training systems and devices.

## PERSONNEL

Military	12
IMA / MTU FL-04	15
USMC Civil Service	59
USN Civil Service	15
Contractor Support	<u>90</u>
<b>Total:</b>	<b>191</b>

## BUDGET

FY12 - \$300M



## PROGRAM MANAGEMENT

- MOUT
- INSTRUMENTATION
- RANGES, TRAINING AIDS & DEVICES
- INDIVIDUAL TRAINING SYSTEMS
- COLLECTIVE TRAINING SYSTEMS
- TRAINING SERVICES
- DISTANCE LEARNING AND CULTURE & LANGUAGE TRAINING
- SQUAD IMMERSION TRAINING
- RESERVE LIAISON
- AVIATION LIAISON
- CONTRACTING

## FINANCIAL MANAGEMENT

ENGINEERING

LOGISTICS

Full range of training products and services that include:

- Training Systems
- Training Support Services
- Training Ranges
- Minor Training Devices

Improving the Warfighting effectiveness of the MAGTF and globally deployed Maritime Expeditionary Forces by providing training support and developing and sustaining training systems and devices.





# PROGRAM MANAGER TRAINING SYSTEMS

## Product Line

### TRAINING SYSTEMS

- Across Live, Virtual, and Constructive Environments
- INFANTRY IMMERSION
- DISTANCE LEARNING
- CULTURE / LANGUAGE
- VEHICLE EGRESS (ROLLOVER, SUBMERSIVE)
- DISTRIBUTED VIRTUAL TRAINING ENVIRONMENTS
- TACTICAL WARFARE SIMULATIONS
- OPERATOR – DRIVER TRAINERS
- WEAPONRY & MARKSMANSHIP
- POSITION LOCATION SYSTEMS
- COMBINED ARMS
- TACTICAL VIDEO CAPTURE & AFTER ACTION REVIEW SYSTEMS

### TRAINING SUPPORT SERVICES

- COMS
- CLS
- ROLE PLAYERS
- MTSS
- SCETC

### TRAINING RANGES

- TARGETS
- BATTLEFIELD EFFECTS
- SESAMS
- MOUT
- T-IED/CIED
- LIVE FIRE / NON-LIVE FIRE
- CONVOY OPERATIONS
- INSTRUMENTATION

### MINOR TRAINING DEVICES

- RUBBER RIFLES
- RPG
- AK-47



Improving the Warfighting effectiveness of the MAGTF and globally deployed Maritime Expeditionary Forces by providing training support and developing and sustaining training systems and devices.

## Mission:

Maximize warfighter performance and decision making for all operations through seamless integration of LVC environments for operational training.

## How We Do It:

- Implement policy, guidance and oversight
- Primary AF integrator of AF Service Core Functions' Live-Virtual-Constructive Operational Training (LVC-OT)
- Advocate for AF LVC-OT simulation requirements and pursue resourcing
- Define, advocate and report on simulation infrastructure (architectures, standards, and integration with AF, DoD and Coalition M&S capabilities)
- Inform AF leadership on the state of AF, DoD and Coalition simulation efforts
- Report on state of AF, DoD and Coalition M&S science & technology and acquisition efforts
- Develop and educate AF M&S professionals
- Execute AF M&S outreach efforts

### Chain of Command

- CSAF
- HQAF/A3/5
- HQAF/A30
- HQAF/A30-C

### Personnel

- Military 9
- Civilian 16
- Contractor 30

***LVC – The Core of Air Force Operations...  
Permeating the Entire Air Force Mission***





# Training Systems Product Group



**Air Force Research Laboratory**  
Warfighter Readiness Research Div  
WPAFB, OH



**Aeronautical Systems Center**  
Simulators Division  
WPAFB, OH



**Aeronautical Systems Center**  
Simulators Division  
WPAFB, OH



**Air Force Agency for Modeling & Simulation**  
Orlando, FL  
MOA with AFAMS provides a connection to AF M&S policy implementation and integration

**500 people executing \$1B/yr for 50 Existing and Future U.S. and Foreign Systems**







**MISSION: Conduct Simulation & Training Research and Development to enhance Warfighter mission effectiveness.**

### Our Headquarters



**\$1,814B (80% Customer)**  
**42 Mil / 1,992 Civ**  
**35 Locations**

Computational & Information Sciences



Vehicle Technology



Survivability/ Lethality Analysis



Sensors & Electron Devices

Human Research & Engineering



Weapons & Material Research



### Simulation & Training Technology Center (STTC)



Providing Simulation & Training Science and Technology to the Warfighter

**OUR STRENGTH >>>> Research and development expertise combined with strong partnerships and a great record of technology transitions**

### Tenant Organizations

- U.S. Army Research Institute (ARI)
- Air Force M&S
- University of Central Florida Institute for Simulation & Training (UCF IST)
- U.S. Army Program Manager for Institute for Creative Technology (ICT) UARC

### Stakeholders

- Program Executive Office for Simulation Training and Instrumentation (PEO STRI)
- Training and Doctrine Command (TRADOC)
- Army Research Institute (ARI)
- University of Central Florida Institute for Simulation and Training (UCF IST)
- University of Southern California Institute for Creative Technologies (USC ICT)
- Medical Research and Materiel Command (MRMC)
- Defense Advanced Research Projects Agency (DARPA)
  - United States Military Academy (USMA)
  - Other services, govt. agencies, industry and international partners





### Advanced Simulation

- Simulation Tools
- Soldier Centric Learning
- Joint and Coalition Training



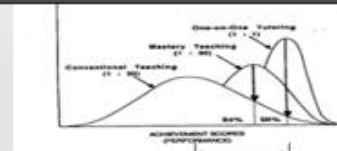
### Blended Simulation

- Virtual Worlds
- Tactical Digital Holograms
- Massively Multiplayer Games
- Federal Virtual World Challenge
- Robotics
- Mobile Training Apps.



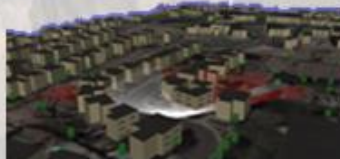
### Creative Technologies

- Virtual Humans
- Immersive Systems
- Adaptive Tutoring
- SGT Star
- BiLAT
- UrbanSim
- MCIT



### Ground Simulation

- Synthetic Natural Environments
- Dismounted Soldier Training
- Live and Embedded Training



### Medical Simulation

- Games
- Live Tissue Simulation
- Severe Trauma Simulation
- Human Patient Simulators







# U.S. Army Research Institute for the Behavioral and Social Sciences (ARI)-Orlando Research Unit



## Army Research Institute

- Training and Personnel Research Mission
- Primarily Research Psychologists
- Research Units at TRADOC and FORSCOM sites and Orlando



## ARI-Orlando Research Unit

### Objectives:

- Develop effective methods to use and author technology-based training.
- Accelerate learning by adapting feedback to individual Soldier's needs.
- Develop effective methods to distribute virtual and game-based simulations for small unit training.

## Orlando Research Unit Programs

### Soldier-Centered Army Learning Environment

- Develop test bed for Army Learning Concept 2015 capabilities and concepts.
- Participate in The Technical Cooperation Program (TTCP) Project Arrangement on distributed simulation and game-based training.

### Adaptive Training for Cognitive Skills

- Develop authoring tools for producing adaptive training.
- Create Wiki site for aiding TRADOC training developers.





# Federal Law Enforcement Training Center Orlando Technology Integration and Simulation Team



- 2004 MOA between FLETC and NAWCTSD
  - Established access to the technology/training expertise within NAWCTSD and Team Orlando
- 2005 Orlando Liaison office established
  - Orlando Technology Integration and Simulation Team (OTIST)
- Two permanent FLETC staffers
  - Law enforcement Training Specialist
  - Simulation Engineering
- Two temporary positions for FY2011
  - UCF student Intern
  - NAWCTSD Engineer
- Projects
  - Tactical Digital Holograms for Law Enforcement Applications
  - Situational Training Complex - After Action Review System
  - Avatar Based Interview Simulator
  - Advanced Use of Force Trainer



Homeland  
Security



# Advanced Distributed Learning (ADL) Initiative



Serves as an innovation lab to identify and explore today's emerging technologies for next generation training

**R&D Focus:** *R&D Requirements*  
*Derived from Service Collaboration*

Long-Term Research:

- Personal Assistant for Learning (PAL)
- Intelligent Tutors
- Next Generation Learner Research

Near-Term Development:

- Training Content Search & Retrieval
- Globally Adopted Specifications
- Training & Learning Architecture
- Advanced Learning Technologies
  - Serious Games
  - Social Learning
  - Virtual Worlds
  - Mobile Platforms

**Charter:** Executive Order 13111

- \$14M program
- 30 person staff



Over 17 Million Distributed Learning Course Completions in FY11

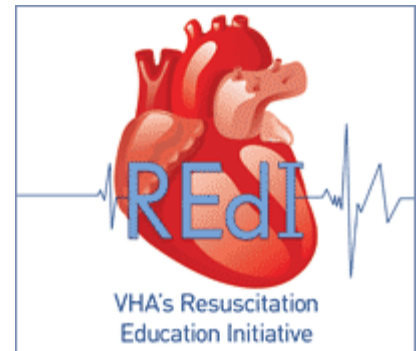


## Veteran's Health Administration

**SimLEARN** is a national program for advancing clinical simulation training, education and research across the Veterans Health Administration. The program is a collaborative effort of the Employee Education System, Office of Patient Care Services and Office of Nursing Services program offices.



**REdI (Resuscitation Education Initiative)** is designed to standardize, document, track and monitor the provision of Advanced Cardiac Life Support (ACLS), Basic Life Support (BLS) and Advanced Trauma Life Support (ATLS) training throughout VHA. Training will be conducted in accordance with American Heart Association (AHA) guidelines.

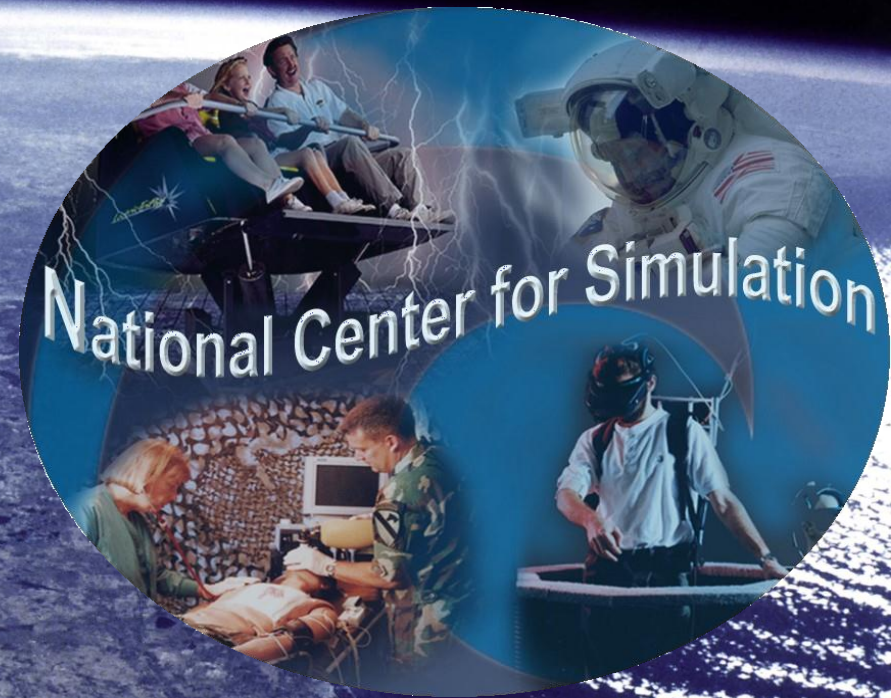


<http://www.simlearn.va.gov/au.asp>



# NCS Operates in 3 Primary Areas:

- ✓ Technology Transfer/Insertion
- ✓ Support for Business & Economic Development
- ✓ Simulation Technology Education



**WHO WE ARE:**

- **Regional public-private, not-for-profit organization**
- **Vision: To champion a more prosperous and diverse economy**
- **Mission: To aggressively attract, retain, and grow jobs for the Metro Orlando region**

**WHAT WE DO:**

- **Market the region as a premier location for business**
- **Recruit new business and investment**
- **Assist existing companies with expansion needs**
- **Facilitate partnerships to enhance economic growth**







# I/ITSEC 2012



*Inter-Service/Industry Training, Simulation & Education Conference*



## Opportunity To:

- View Simulation Advances
- Network with Industry Suppliers
- Attend Classes on M&S
- Attend Panel Discussions
- Observe Special Events

03 – 06 Dec 2012

Orange County  
Convention Center

<http://www.iitsec.org>

## 2011 Statistics:

- 20,000 Registrants
- 2,000 Foreign Visitors  
representing 57 Countries
- 245K Square Feet
- 595 Companies



UNITED STATES DEPARTMENT OF DEFENSE



# Florida Defense Support Task Force Update on Service Member and Family Issues

[www.USA4MilitaryFamilies.dod.mil](http://www.USA4MilitaryFamilies.dod.mil)

Eric Sherman  
Regional State Liaison, Southeast Region  
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[eric.sherman@osd.mil](mailto:eric.sherman@osd.mil)



# Why am I here?



## Background

Work with states on issues important to Service members/families

Very successful last 6 years: 14 statutes enacted across 9 issues requiring legislation

## Discussion

Program history & parameters

Update on key legislative Issues

Details on the 4 issues for 2013

Thank-you for what you have done for our Service members  
and their families

# 100+ State Liaison Function



Jackie Harriman



Martin Dempsel



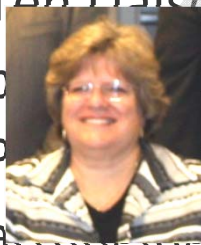
Jim Pickett



Mark San Souci



Harold Cooney



Laurie Crehan



Kevin Bruch



al: Provide DoD opportunity to participate in state-level discussions on issues affecting service members and their families

10 'Key (state) Liaisons reviewed annually

10 'Key Liaisons

Top Liaisons 'ER' about the issues

'best practice' liaison

arranging testimony is permitted

what we don't do: Lobby

No 'grass roots' campaigning for specific pieces of legislation

# Key Issues Impacting Service Members and Their Families(2012)



Facilitate military spouse transition through licensure portability and eligibility for unemployment compensation

Facilitate Service members receiving licensure and academic credit for military education, training and experience

Minimize school disruption for military children

Increase access to quality, affordable childcare for military families

Ensure military separations do not determine child custody

Improve absentee voting for military members and their families

Provide authority for establishing Veteran Treatment Courts (VTCs)

Protect consumers and enforce the predatory lending regulation

Comport state laws with DoD rules on disposition

Coordinate state-wide public-private support

# Minimize School Disruption for Military Children during Transition and Deployment



**Issue:** Frequent moves = many schools with non-standard policies = Ed delays

**Goal:** States participate in an interstate compact providing a uniform policy to resolve challenges military children face moving between school systems

## **Background:**

2006: DoD & Council of State Govs collaboration

Compact provides procedural policies for

enrollment, eligibility, placement, & graduation

2008 - HB1208: FL adopted compact with biannual sunset requirement

...once adopted, it is a binding contract

## **Status:**

Interstate Commission and State Councils oversee compliance

Florida is reviewing in 2013 under Sunset provisions

Already contacted by House Economic Affairs Committee

*42 member states; covers 96% of our AD students*

# Increase Quality, Affordable Childcare



**e:** Installation-based resources cannot keep up with demand

**l:** Work with state governments to align state childcare rating systems with DoD Childcare Effectiveness Rating and Improvement System (ERIS)

- Include ERIS standards in state rating systems (focus on health & safety standards)
- Will allow DoD to subsidize care at 'quality' childcare facilities
- Florida is 1 of 13 pilot states
- Largely an agency requirement; however, may require enabling legislation:
  - Expanding list of employees requiring background investigations: all adults in home facilities, all employed staff, contract staff, and regular volunteers
  - Expanding background reviews to include Federal and State criminal records, State child abuse & neglect registries, and State sex offender registries

**Status:** FL background checks do not review State child abuse & neglect registries and State sex offender registries.



# Remove Licensure Impediments for Separating Service Members



**Issue:** Service members experience delays and lost opportunities qualifying for licenses and academic credit although they have applicable training and experience

**Goal:** States recognize military training and experience to provide separating Service members with credit towards education and licenses

## **Strategy:**

Reduce employment delay through:

1. Requiring boards account for military training/experience for occupational licenses
2. Allowing Service members to maintain active licenses on active duty and to obtain endorsement in new state upon separation
3. Schools allow for academic credit for military training/ experience
  - Use American Council on Education recommendations

Enhance the ability of credentialing and academic organizations to evaluate military training and experience

# Credit Towards Licensure



Legislation supports separating Service members fulfilling portions of the licensing requirements based on their military training and experience:

Florida Status-

- Support to streamline the licensing process for separating service members
  - Dedicated Web portal, waived fees, exam reimbursements, customer service
- Policy statements recognizing experience and education are inconsistent across the professions

For states with more independent board structure, **Washington HB 1418** (2011) modifies 21 commercial occupations, and **SB 5307** (2011) modifies 14 healthcare-related occupations. Each chapter features a new section:

*“An applicant with military training or experience satisfies the training or experience requirements of this chapter unless the secretary determines that the military training or experience is not substantially equivalent to the standards of the state.”*

# Reduce Licensure Impediments for Military Spouses



**Issue:** Frequent moves & difficult licensing = stunted careers

**Goal:** States offer alternative certification options and streamlined procedures to support the unique needs of working military spouses

## **Strategy:**

Focus on impacting majority of occupations favored by military spouses

Reduce employment delay through:

1. License by endorsement
  - Provide alternatives to showing current experience for competency
  - Working with Representative Ronald "Doc" Renuart to improve
2. Provide temporary licenses with minimal documentation
  - Support spouses with valid licenses who cannot immediately qualify for endorsement
3. Allow for streamlined approvals
  - Directors of oversight agencies to approve within criteria
  - Boards approve applications and validate referral information later

# Modifying license by endorsement requirements



Legislation accommodates limitations in meeting traditional measures of proficiency due to gaps in employment. CO HB 1175 (2010) allows applicants the option of showing minimum recent employment in the occupation, *or* *filling* proficiency requirements in the occupation as determined by each individual board (example is for dental hygienists) and for the director overseeing these boards:

*The board shall issue a license to an applicant duly licensed as a dental hygienist in another state .... (B) Evidence that the applicant has demonstrated competency as a dental hygienist as determined by the board.*

*....an applicant for certification, registration, or licensure by endorsement may demonstrate competency in a specific occupation or profession as determined by the director in lieu of a requirement that the applicant has worked or practiced in that occupation or profession for a period of time prior to the application for endorsement.*

UNITED STATES DEPARTMENT OF DEFENSE

# Questions ?

[www.USA4MilitaryFamilies.dod.mil](http://www.USA4MilitaryFamilies.dod.mil)

**Our goal is to partner with states to help  
our members and their families!**