



***Lt Col John W. Desmarais, Sr., CAP  
Deputy Director, Operations  
Civil Air Patrol National Headquarters***

---



# Funding Ideas – The CAP Model

---

- ◆ **Even with what can be a large budget for some organizations, there is never enough to do all of the great things that you could do with more resources**
- ◆ **Throughout this presentation ideas for how to do more with less will be presented using CAP as the example**
- ◆ **These are not the only ways, but are just ideas**



# Funding Idea # 1

---

- ◆ **Be sure to structure your organization to meet your tactical and strategic goals and objectives**
- ◆ **Adjust to the changing needs of your operating environment**



# History

- 1941: CAP Established Dec 1<sup>st</sup>**
- 1943: Transferred to War Department**
- 1946: Incorporated (PL 476)**
- 1948: Auxiliary of the United States Air Force (PL 557)**



**Civil Air Patrol is a federally chartered nonprofit corporation (501c3) and the official Auxiliary of the USAF when conducting Air Force Assigned Missions**



# Three Missions of Civil Air Patrol

---



## Emergency Services



**SAR/DR  
Homeland Security  
Counterdrug  
Humanitarian Services  
AFROTC Flights**



## Cadet Programs

**Leadership  
Physical Fitness  
Activities  
CAP School Program**

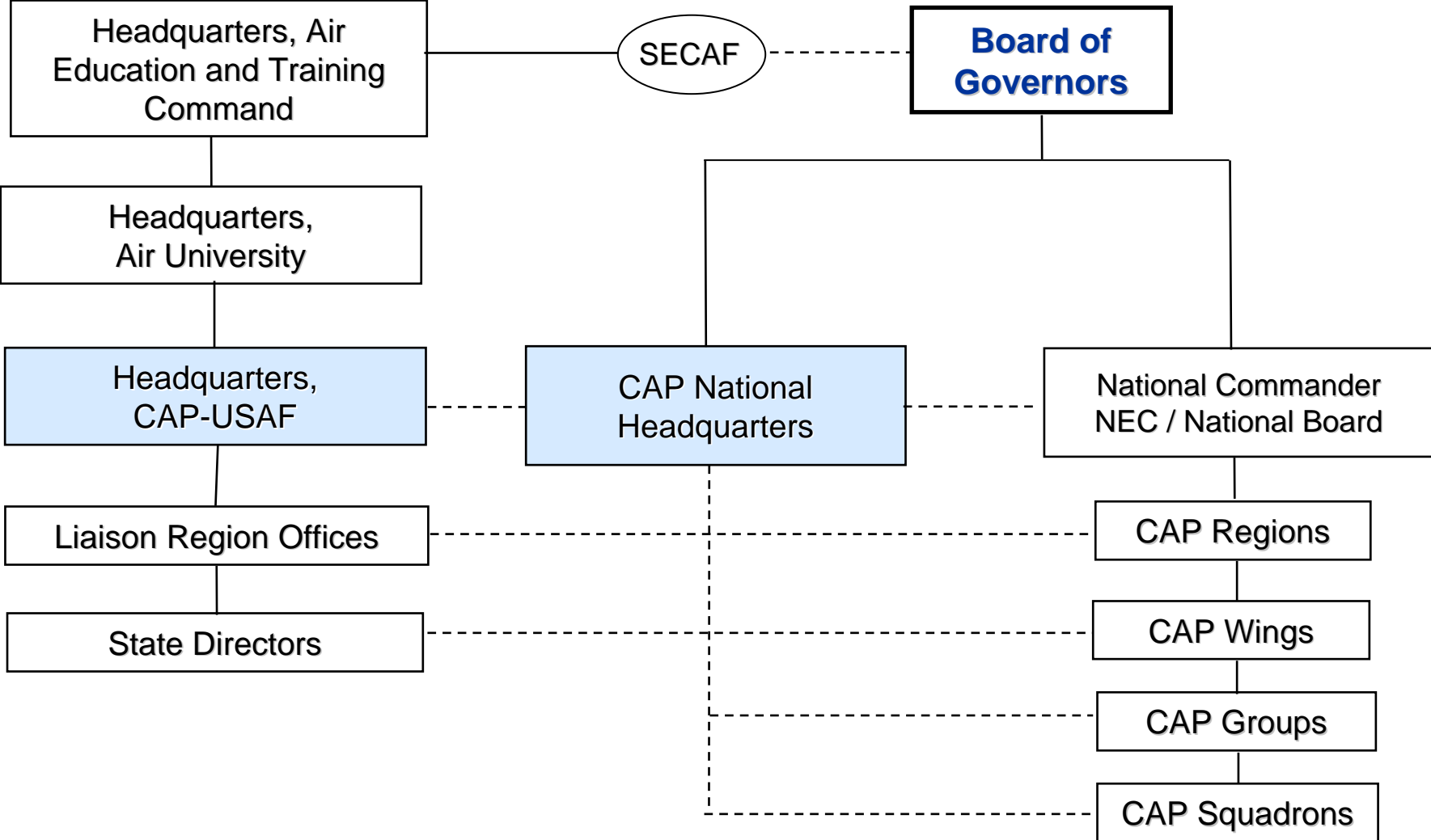


## Aerospace Education

**CAP Members  
AE Members  
General Public**

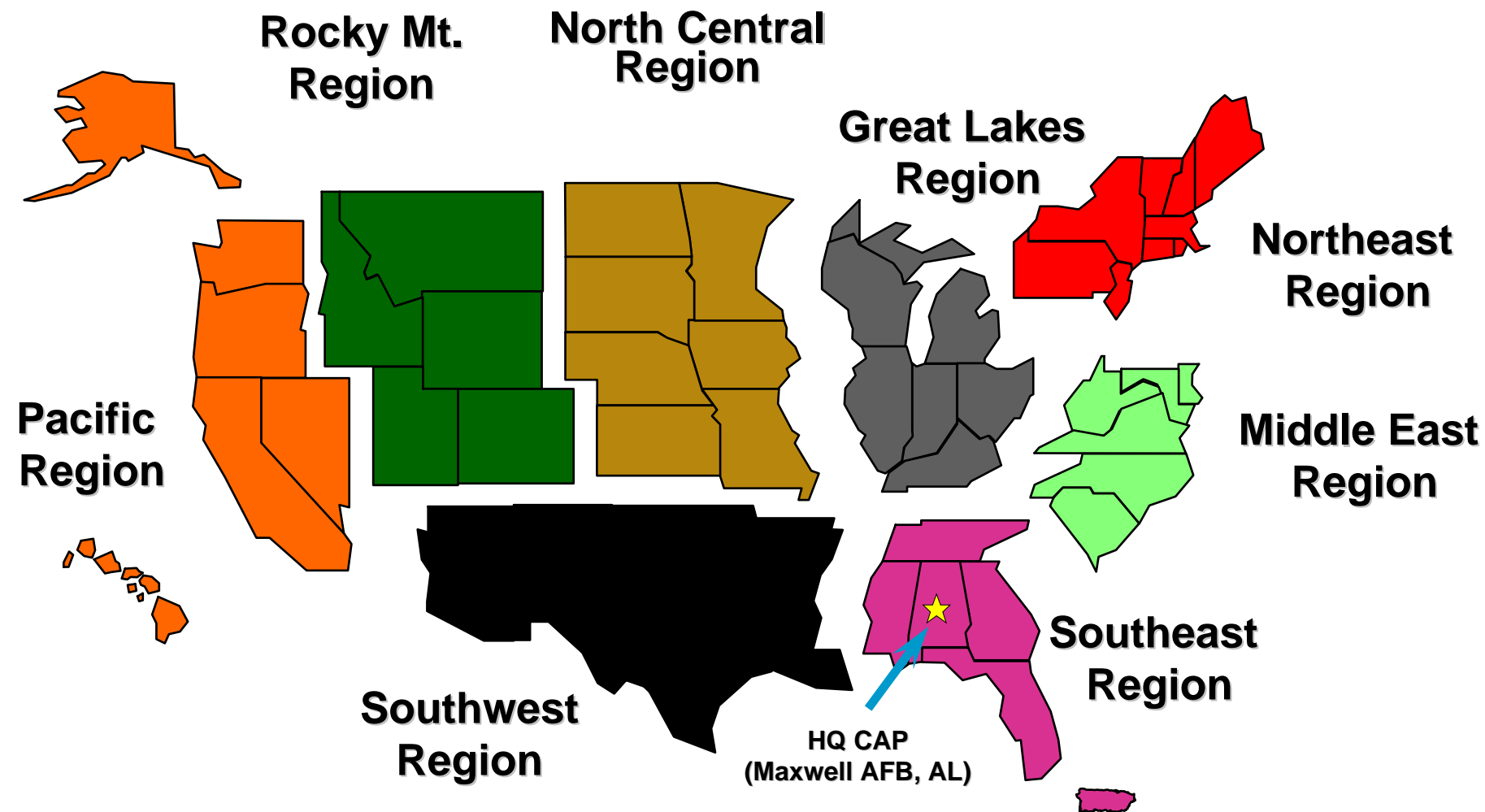


# Organizational Structure



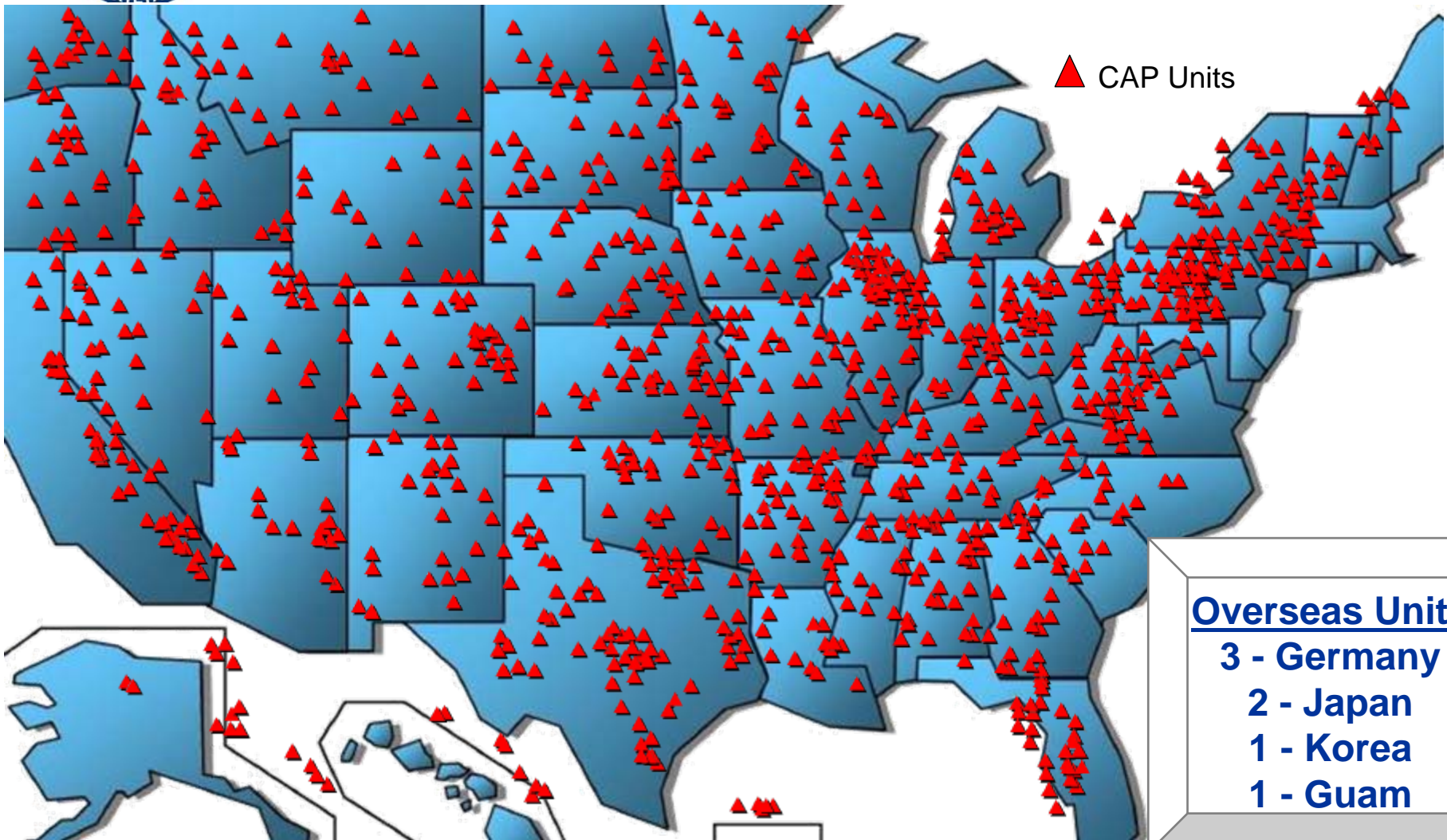


# CAP Regions





# CAP Presence



## Overseas Units

- 3 - Germany
- 2 - Japan
- 1 - Korea
- 1 - Guam





# Funding Idea # 2

---

- ◆ **Focus on the resources that are critical to your mission**
- ◆ **Plan for the long term needs of your organization and who it serves both internally and externally**



# CAP Resources

**950+  
Vehicles**



**530+  
Aircraft**

**56,000+ Members**  
**34,000+ Adults**  
**22,000+ Cadets**

**4,500 Fixed  
Land Radios**



**8,100  
Mobile Radios**





# Modern Aircraft

## Cessna 182

- ◆ **Garmin G-1000 glass cockpit**
- ◆ **53 in the field**
- ◆ **50 More by end of FY07**



## Gippsland GA-8

- ◆ **ARCHER platform**
- ◆ **16 in the field**





# Funding Idea # 3

---

- ◆ **Allow the members of your organization to bring forward ideas from the lowest levels**
- ◆ **Innovation is great, but sometimes commercial-off-the-shelf (COTS) or other types of resources will meet the needs of budget conscious organizations better**



# SDIS

## What is SDIS?

Satellite-transmitted  
Digital  
Imaging  
System





# SDIS Continued







**1<sup>st</sup> Levee  
Break**

**Natural  
Gas Leak**





# Hyperspectral Imaging (HSI)

---

## What is ARCHER?

Airborne  
Real-Time  
Cueing  
Hyperspectral  
Enhanced  
Recon  
..... SeARCHERs'Edge





# HSI – What does it do?

---

- ◆ HSI Technology allows a sensor on a moving platform to detect reflected radiation (light) from objects on the ground.
- ◆ Algorithms allow ARCHER to:
  - ◆ Detect spectral anomalies (things that do not “belong”)
  - ◆ Detect specific spectral signatures using matched filters (find things with known spectral properties)
  - ◆ Detect changes over time
- ◆ Algorithms are applied in real-time, and require little to no user input



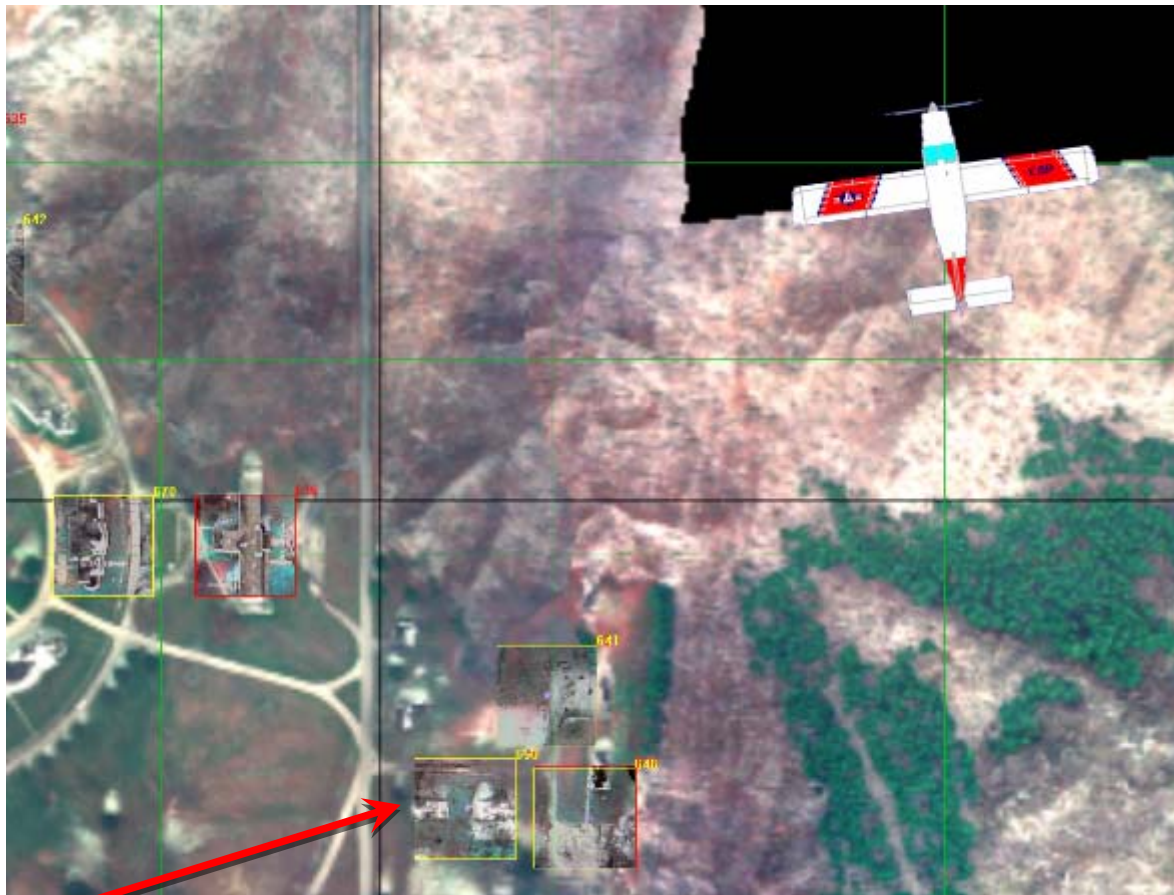
# HSI Operational Impact



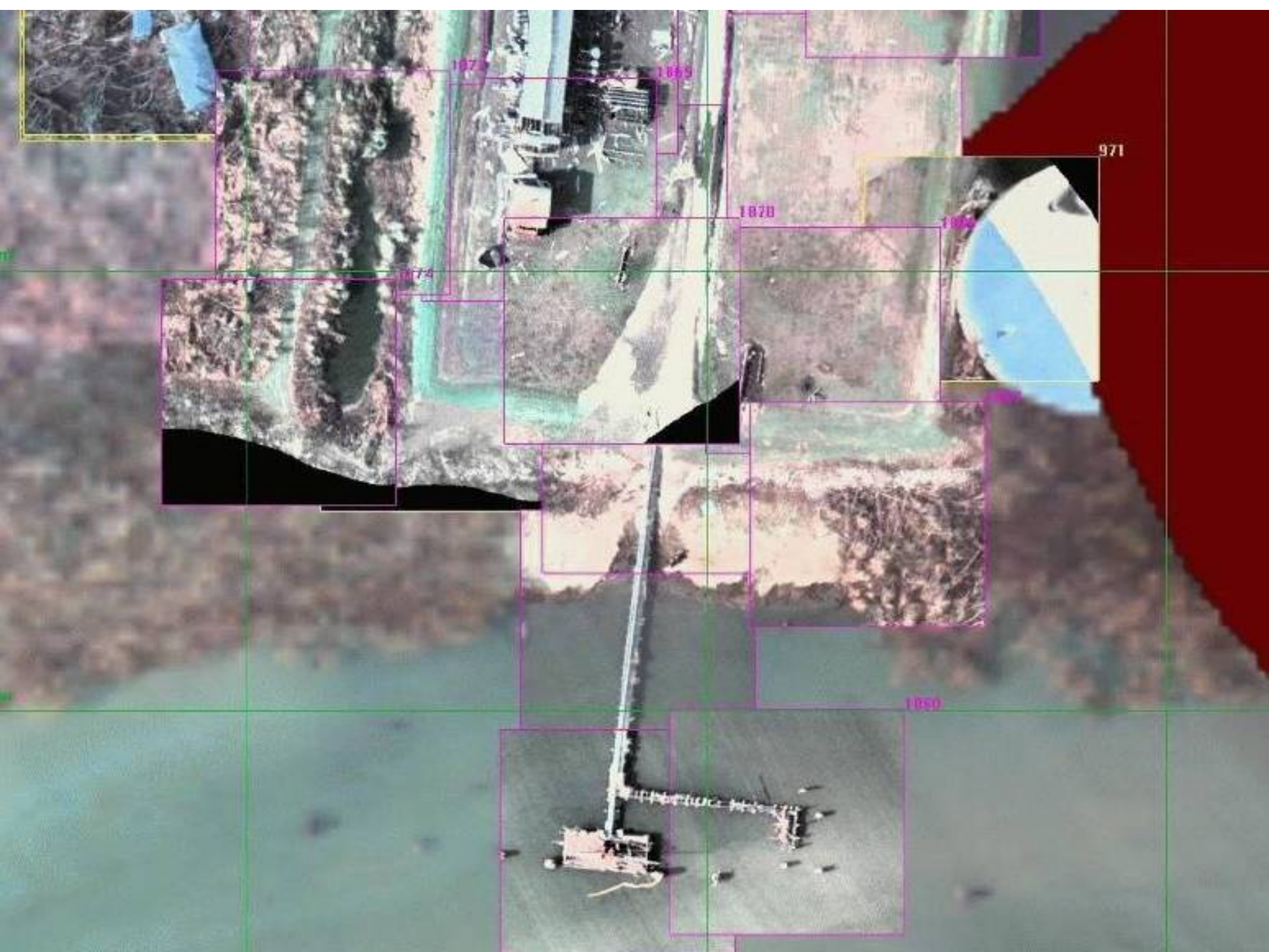
Visible  
Hyperspectral  
Imaging  
Sensor



Target



On-Board Hyperspectral Display  
with Real-Time Detection Cues



1873

1889

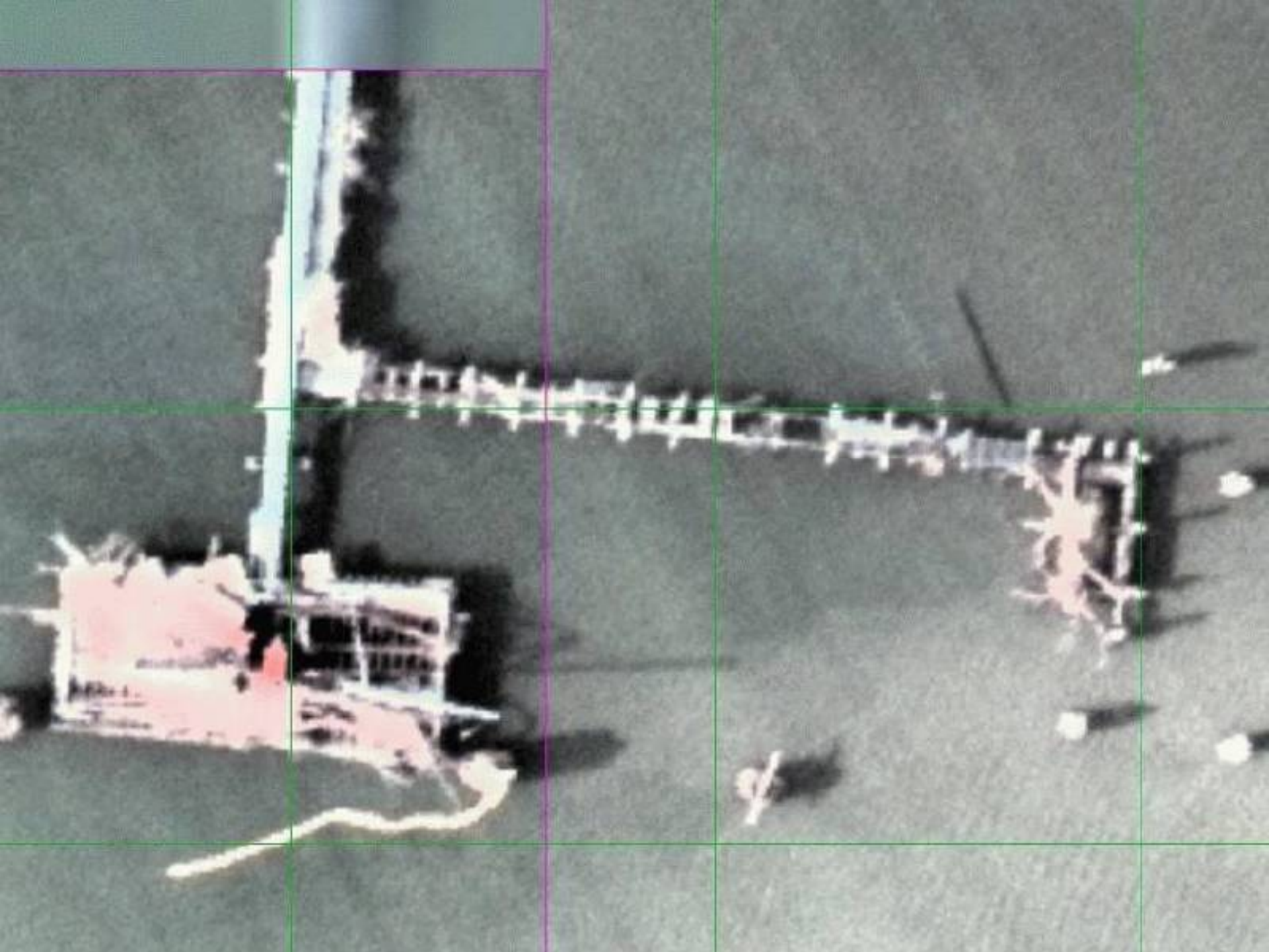
971

1870

1884

1874

1880





1059



# Funding Idea # 4

---

- ◆ **Partner with organizations that can help your cause**
- ◆ **Understand that your goals may be different, but come to some consensus as to what you can do jointly, and what everyone brings to the table**



# Partner Support

---

- ◆ **Air Force Research Lab (AFRL)**



- ◆ **Naval Research Lab (NRL)**



- ◆ **U.S. Coast Guard Research and Development Center**







# Funding Idea # 5

---

- ◆ **If it isn't broken, don't fix it**
- ◆ **Do consider smart enhancements to existing resources to better position yourself for the future**



# SDIS & ARCHER Combined

Hurricane Katrina  
Support  
HSI



**SDIS**





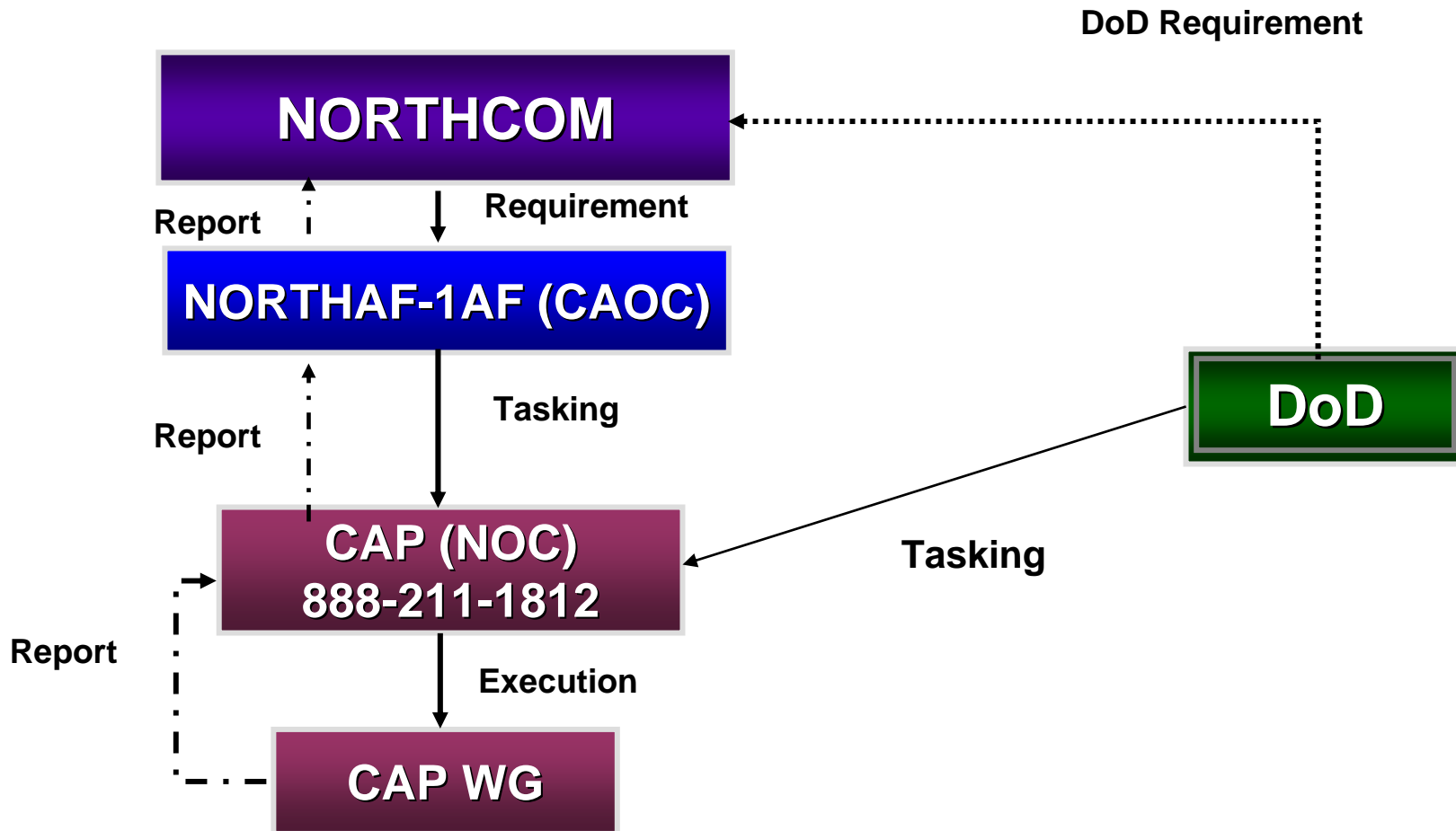
# Funding Idea # 6

---

- ◆ **Know that when you accept funding from anyone, there is an expectation that you will deliver on what you were paid to do**
- ◆ **Keep everyone up to date on your progress, successes, and failures**



# Command & Control Request for Forces



**CAP ... Remain Under Military Operational Control ...**

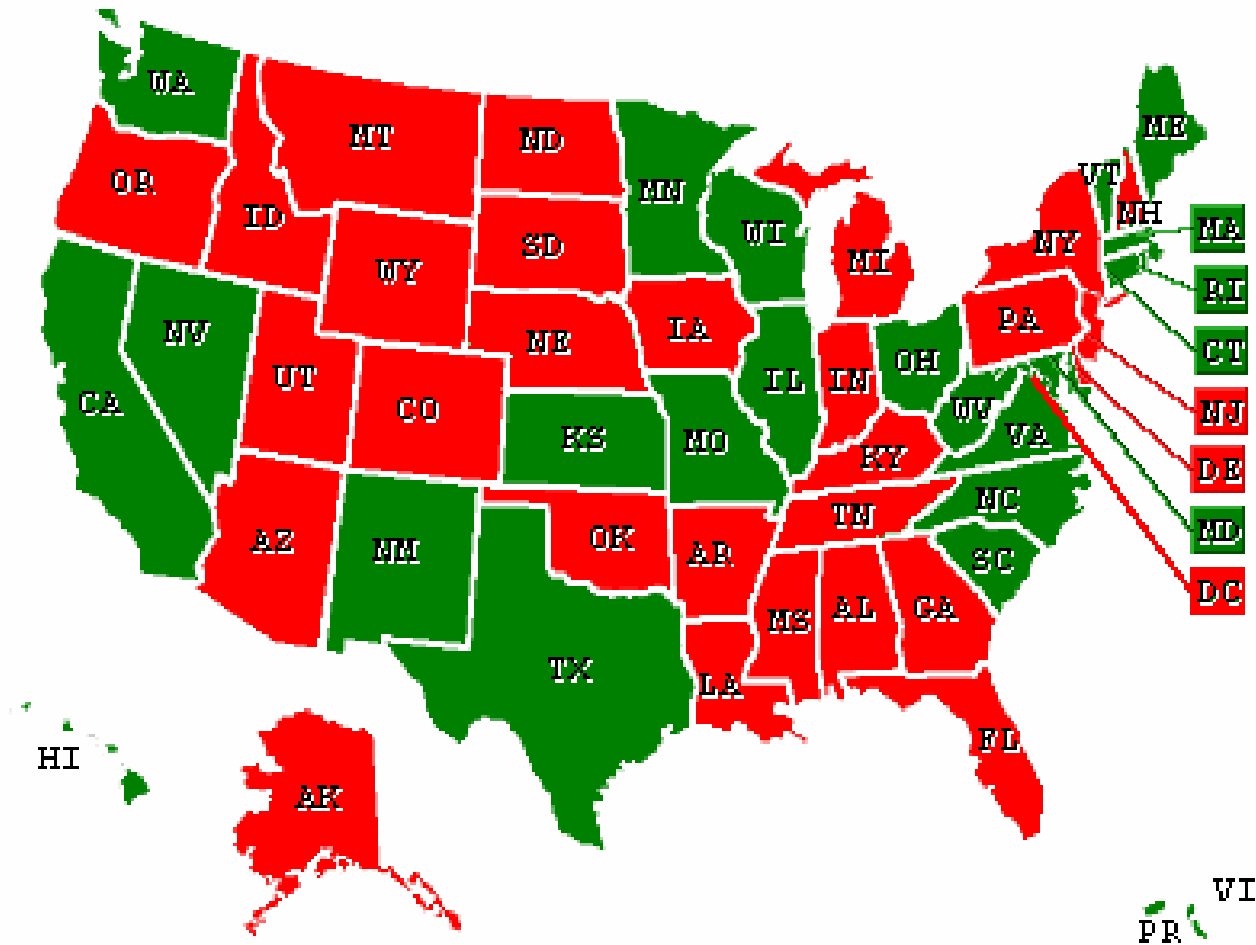


# Funding Idea # 7

---

- ◆ **Know your limits**
- ◆ **Know when to say NO!**
- ◆ **Though we in many cases want to be everything to everyone – the savior in a crisis – that is not possible and organizations need to focus on what they do best**

Current Mission Status  
As Of 30 Aug 2005 19:03:13  
Updates Every 15 Minutes



Key

- On Mission
- StandBy



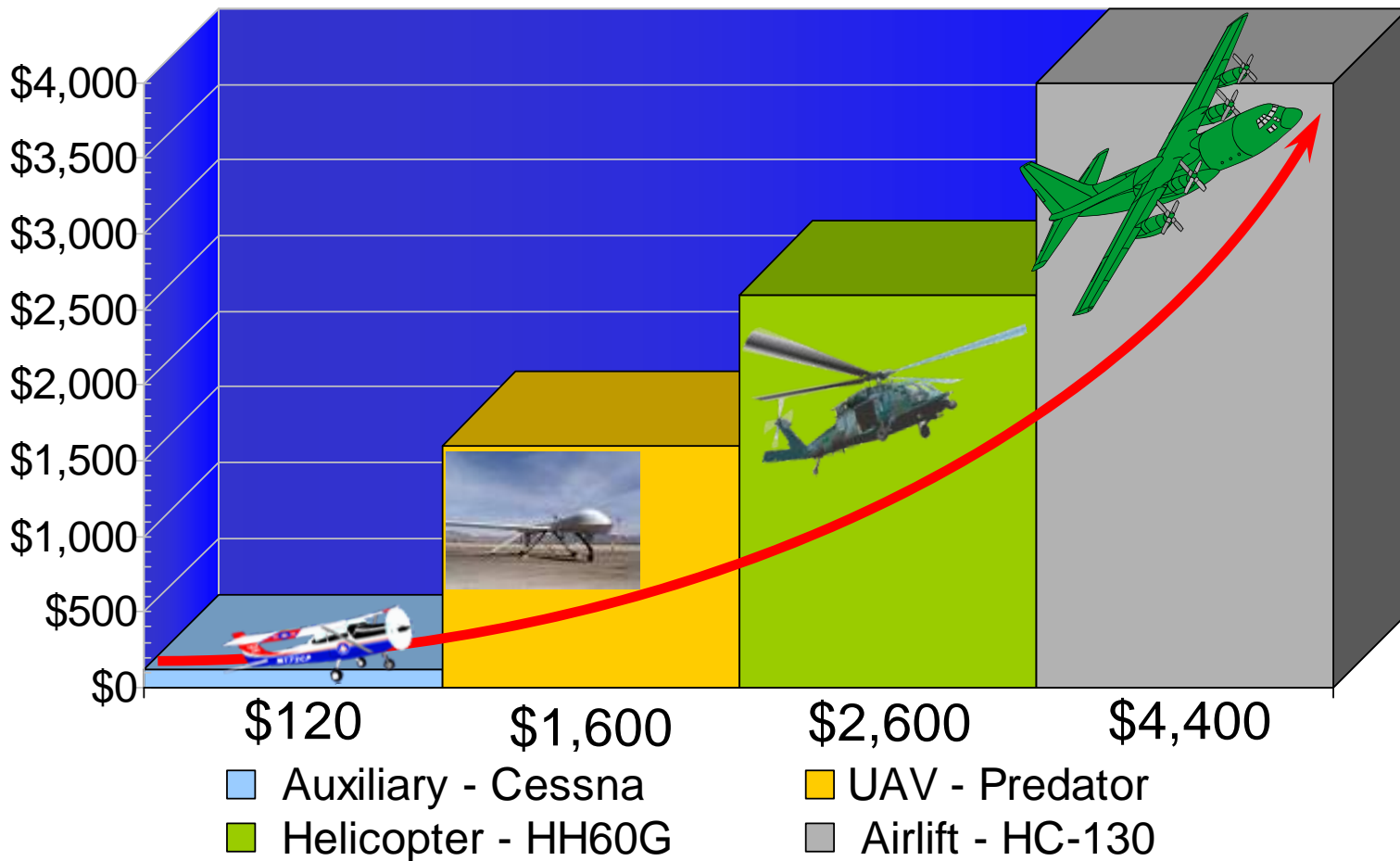
# Funding Idea # 8

---

- ◆ **Know what it really costs you to do your mission**
- ◆ **...and what your competitors or team mates cost**
- ◆ **...and when you are not the right resource, say so**



# Cost Effective Force Multiplier



**CAP SAR Support through the AFRCC is funded by CAP's Federal Appropriation**





# Questions?

---

**Lt Col John W. Desmarais, Sr., CAP**  
**Deputy Director, Operations**  
**Civil Air Patrol National Headquarters**

**HQ CAP/DO**  
**105 S. Hansell St.**  
**Bldg 714**  
**Maxwell AFB, AL 36112**

**Work: 888-211-1812 Ext. 303**

**DSN: 493-7299 Ext. 303**

**Cell: 334-354-9415**

**Fax: 800-555-7902**

---