

Electronic Systems Center

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Tactical Automated Security System (TASS): Air Force Expeditionary Security



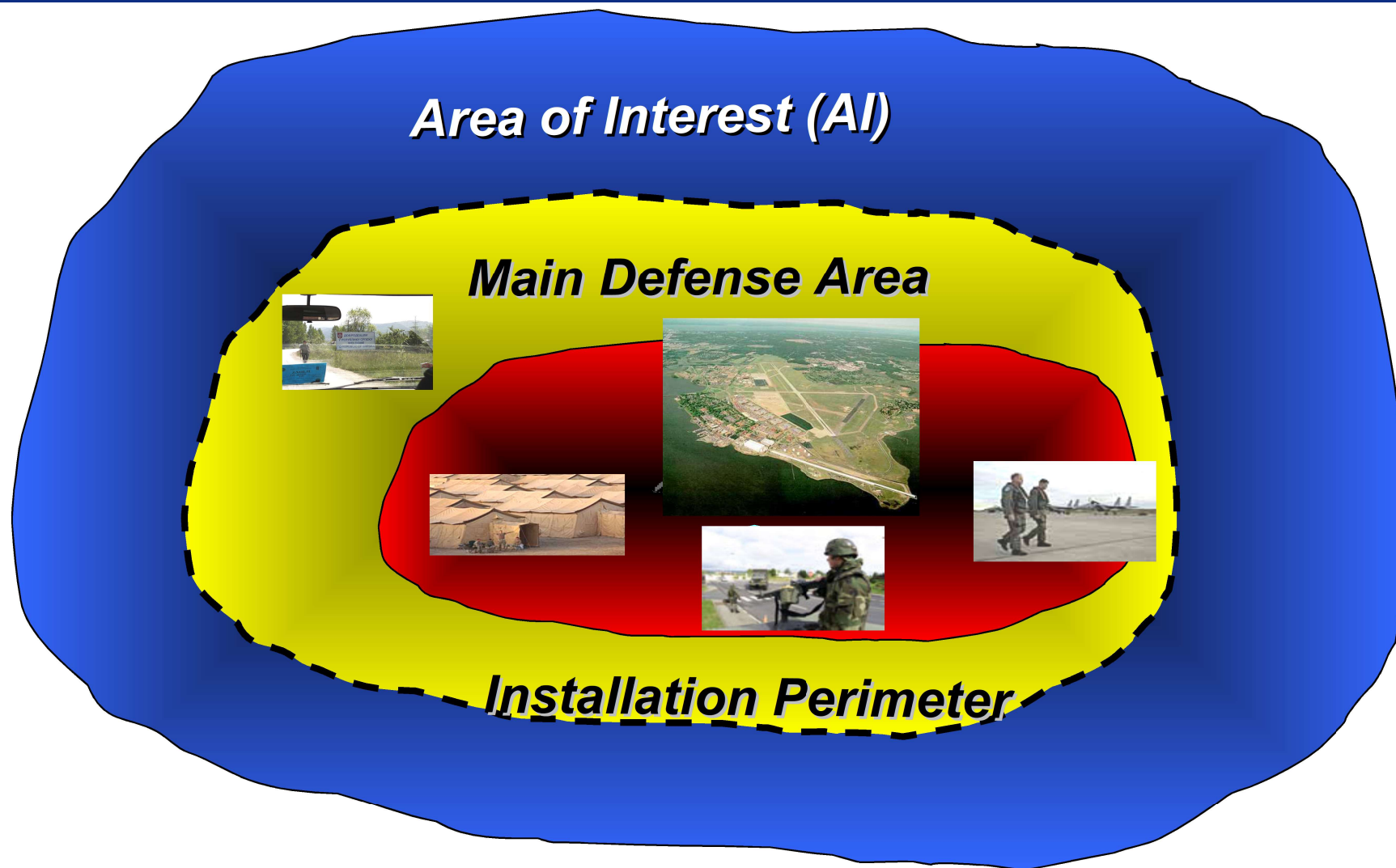
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The Tactical Battlespace

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Essential Elements of IBD

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Deceive

- Distort enemy view, mislead

Deter

- Discourage enemy action
- Make consequences clear

Anticipate

- Enemy's perspective
- Prepare accordingly

Deny

- Prevent enemy use of space and means to attack

Detect

- See all potential threats

Delay

- Slow enemy, without massive engagement

Assess

- Analyze defense effect, leverage intel

Deploy

- Rapidly mass force
- Attain positional advantage

Neutralize

- Render enemy ineffective

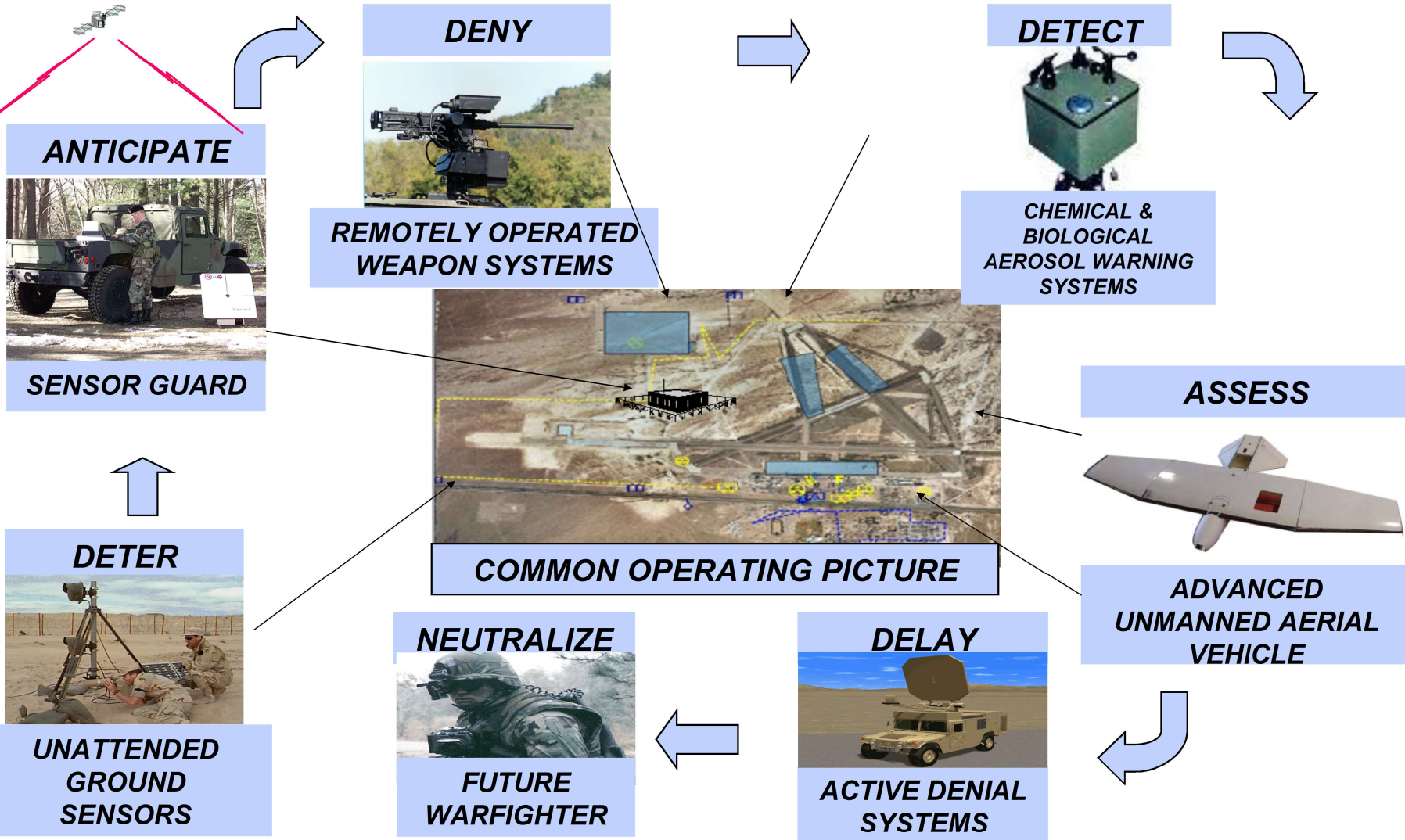
Mitigate

- Minimize enemy success



Integrated Base Defense - FOL

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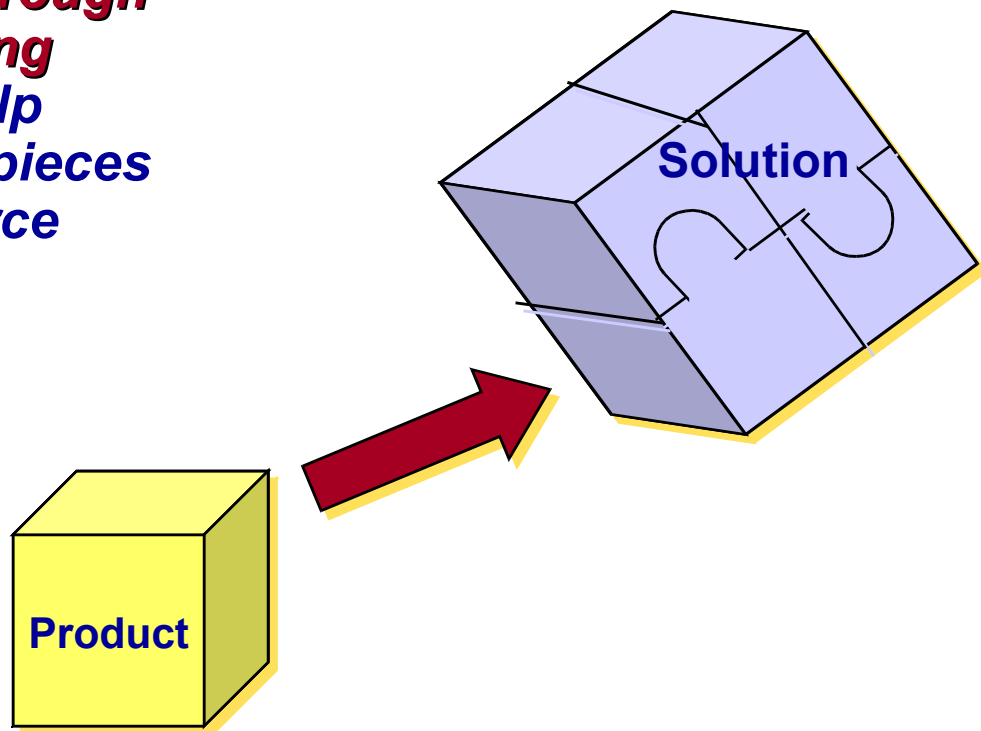
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Assumption

There will be no more **breakthrough** technology only **enabling** technology that will help **integrate** all the “product” pieces to provide **seamless** force protection solutions





Introduction

- **The Tactical Automated Security System (TASS) is a rapidly deployable, relocatable, integrated security system designed for a variety of force protection missions**
 - **Provides detection, assessment, and command and control capabilities**

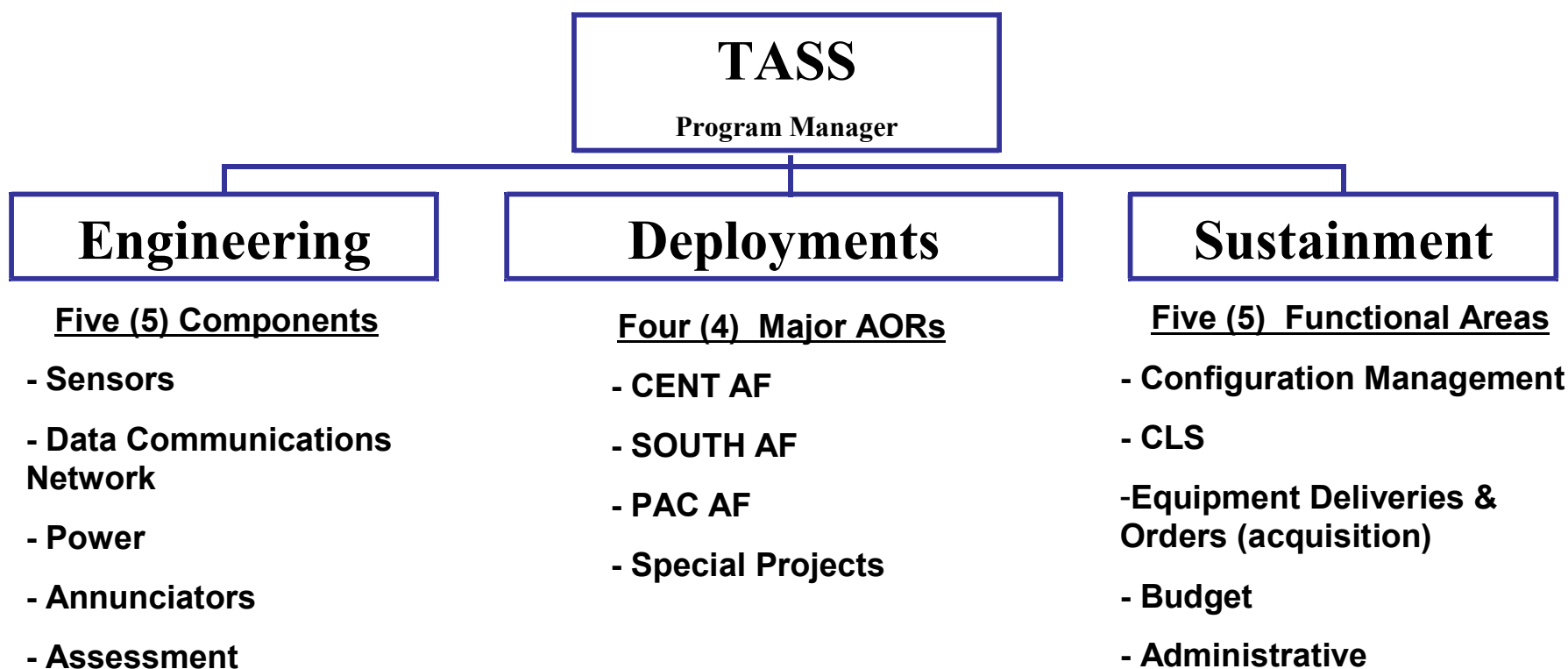
AFDD 1-1: “Modern day aircraft are most vulnerable when they are on the ground.”



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Vision & Operations

*A **Benchmark** IPT **Employing** Innovation and Experience in **Developing**, Fielding and **Sustaining** World Class **Adaptable** Force Protection Solutions on Time, on Cost, As Promised.*



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Objectives

- **Portability**
 - Mission is worldwide and urgent
 - Constant effort to downsize due to space limitations
- **Adaptability**
 - Single asset protection
 - Basewide perimeter application
- **Modularity/Scaleability**
 - Custom tailor your own security solution
 - Employ defined “kits” or configurations based on most likely applications
- **User Friendliness**
 - Easy and timely set-up
 - Easy to use
 - Training essential to increase User Friendliness



TASS 2005-2010 Vision

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- **Universal:** Produce a system that is certified for all levels of Intrusion Detection. The system will be designed to meet PL1-4 (including nuclear), resource protection and deployment requirements.
- **Situational Awareness:** Produce a system that enhances the situational awareness of the operator
- **Self configuring:** Produce a self-configuring, self-healing system that adapts to changes in its environment
- **Ease of use:** Produce a system that is easy to install, operate, recover, and maintain
- **Miniaturization:** Produce a system that is energy efficient, small, lightweight and durable.
- **Deter/delay:** Produce a system with the capability to deter and delay adversaries



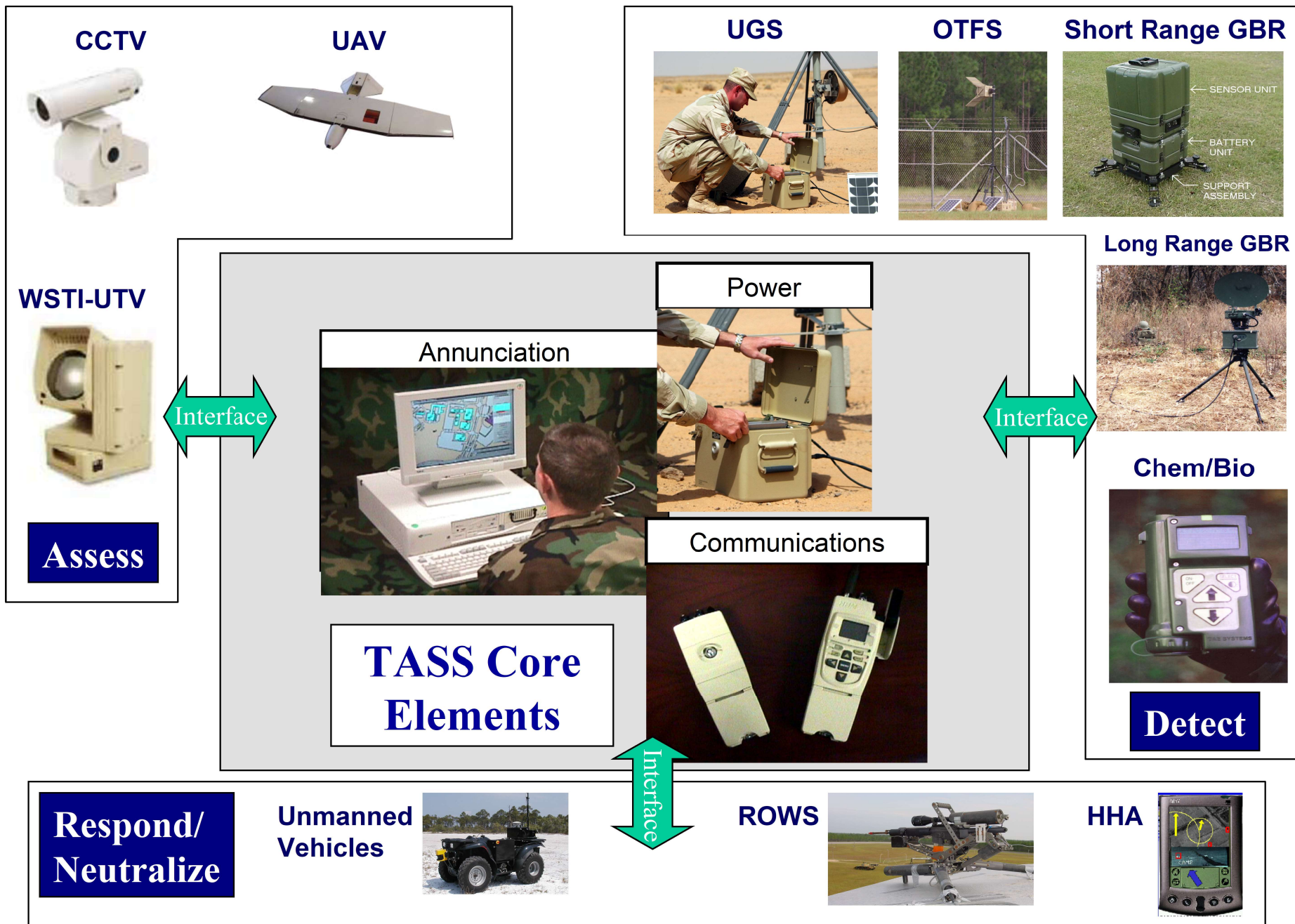
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Equipment Elements

- **Annunciators**
 - **Power**
 - **Data Communications Network**
- } **Core Elements**
- **Sensors**
 - **Assessment**



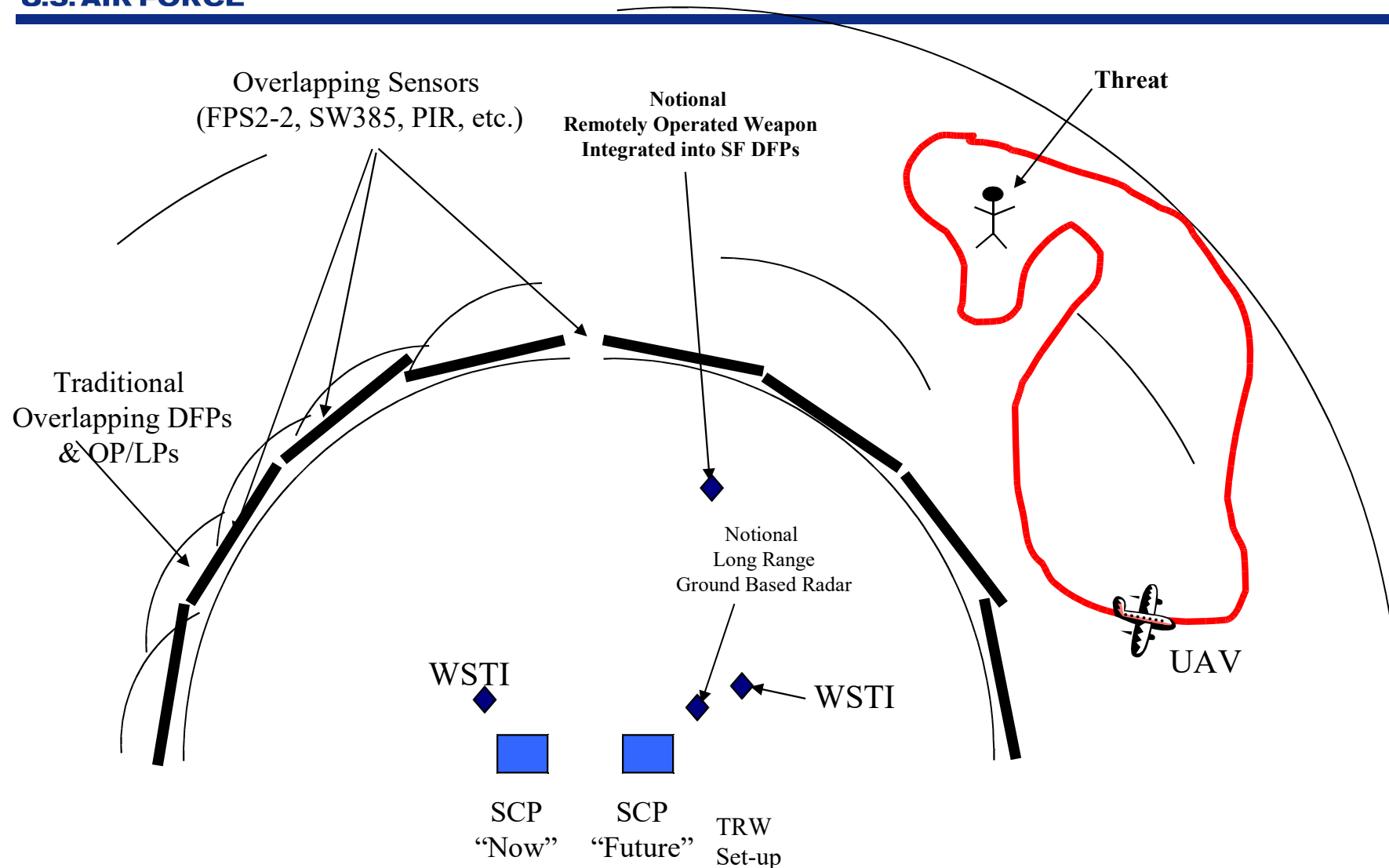
TASS Integration Framework





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Beyond the Perimeter



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TASS Partnering with Industry

- **Conform to standards and disciplined configuration control**
 - DAC initiatives, XML schema, drawings, etc.
- **Don't neglect *sustainment***
 - Training, technical orders, and logistical support items
- **Ensure equipment is low power, mobile, and modular**
- **Ensure future system integration**
 - Follow the approved architecture "...tasks by goals and year of completion"
- **Ensure tactical security and ruggedness**



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Conclusion

AFDD 1-1: “Modern day aircraft are most vulnerable when they are on the ground.”

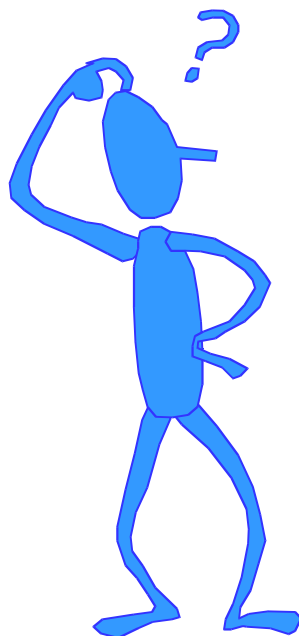
- The need for expeditionary security forces is increasing
- TASS has found success in being adaptable
- TASS will continue to develop an effects-based capability to meet this mission
- FY03 Theme = Integration





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TASS



QUESTIONS?