Center for Infrastructure Assurance and Security (CIAS)

Joe Sanchez
AIA Liaison to CIAS

REPORT DOCUMENTATION PAGE

1. AGENCY USE ONLY (Leave blank)	2. REPORT DATE 4/24/2002	3. REPORT TYPE AND DATES COVERED Briefing 4/24/2002

4. TITLE AND SUBTITLE
Center for Infrastructure Assurance and Security (CIAS)

5. FUNDING NUMBERS

6. AUTHOR(S)
Sanchez, Joe

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)

Air Intelligence Agency

8. PERFORMING ORGANIZATION REPORT NUMBER

9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)

IATAC
3190 Fairview Park Drive
Falls Church, VA 22042

10. SPONSORING / MONITORING AGENCY REPORT NUMBER

11. SUPPLEMENTARY NOTES

12a. DISTRIBUTION / AVAILABILITY STATEMENT
Approved for public release; Distribution unlimited

12b. DISTRIBUTION CODE

A

13. ABSTRACT *(Maximum 200 Words)*

Breifing on CIAS history, vision and focus.

14. SUBJECT TERMS
IATAC Collection, infrastructure assurance, information security, intrusion detection,

15. NUMBER OF PAGES

18

16. PRICE CODE

17. SECURITY CLASSIFICATION OF REPORT UNCLASSIFIED	18. SECURITY CLASSIFICATION OF THIS PAGE UNCLASSIFIED	19. SECURITY CLASSIFICATION OF ABSTRACT UNCLASSIFIED	20. LIMITATION OF ABSTRACT UNLIMITED

Overview

◆ **Vision**

◆ **History**

◆ **Concept**

◆ **Initiatives**

◆ **Update**

◆ **Next Steps**

Vision

Develop the world's foremost university center for multidisciplinary research and education in areas of infrastructure assurance and security

Vision
Why?...and Why San Antonio?

Why: Our nation is under siege... information/infrastructure systems are vulnerable from both foreign and domestic threats…

New research & education is paramount to assure continued growth in information security

Why San Antonio: Significant concentration of the world's leaders in I/O security
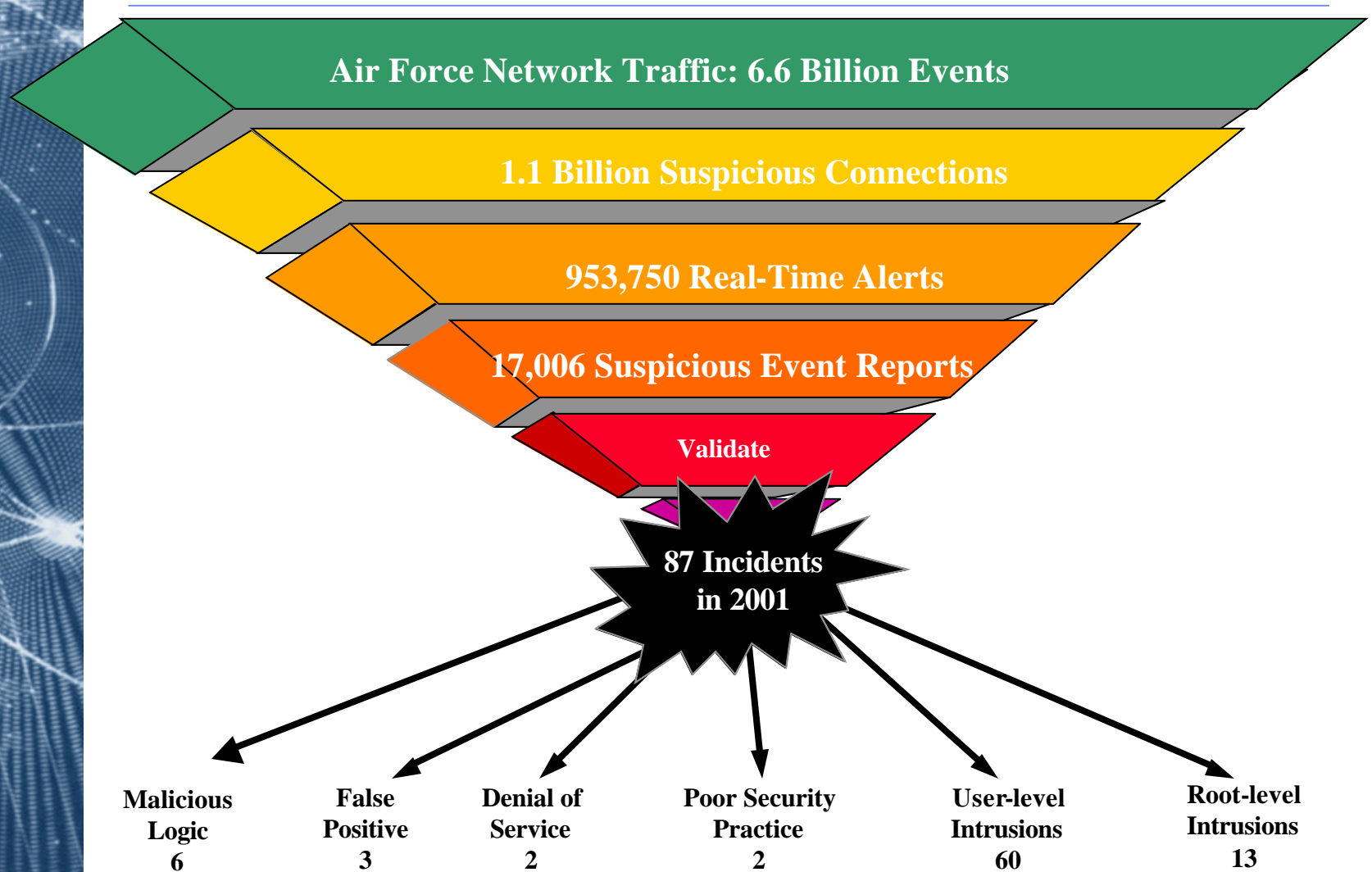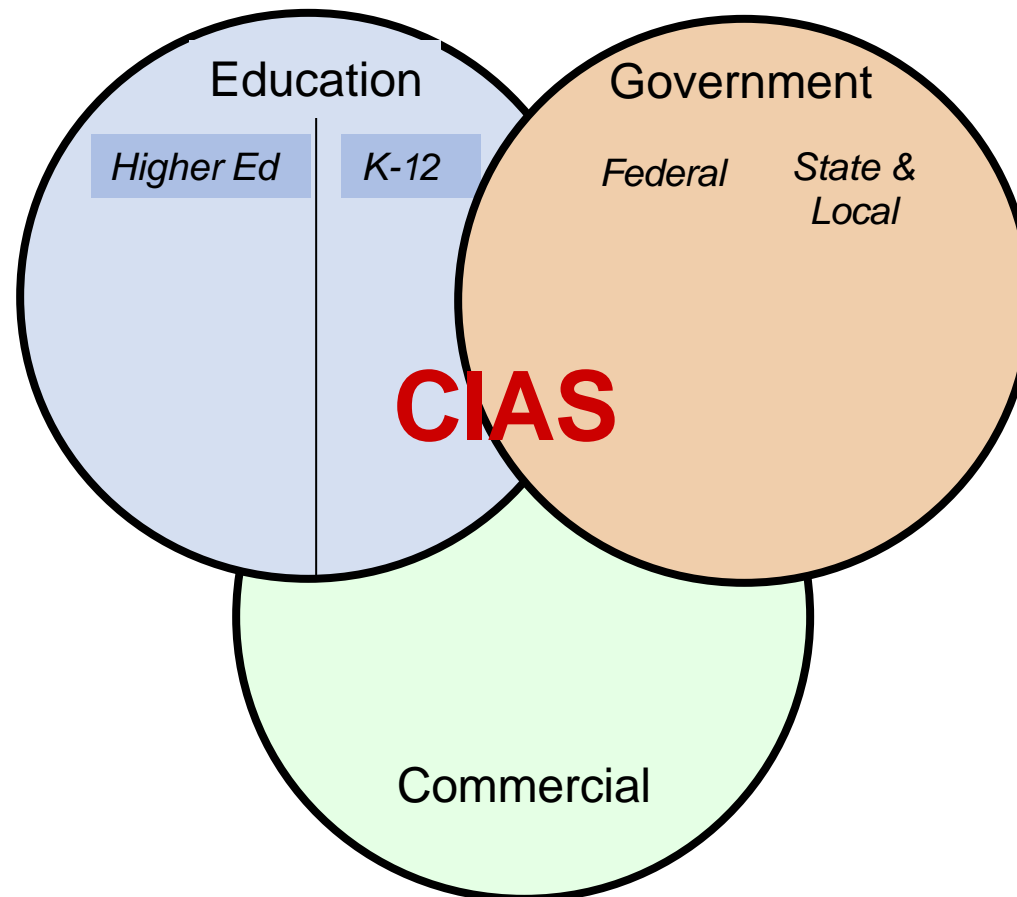
Information Security History
ESC to AIA

◆ In 1985 the Air Force consolidated their computer security missions at Kelly AFB, combining Computers, Communications, and Emanations disciplines

◆ Creation of the Air Force Computer Emergency Response Team (AFCERT) and the Air Force Information Warfare Center

◆ Charted the course for the military services and private sector and has made San Antonio a hub of security activity.

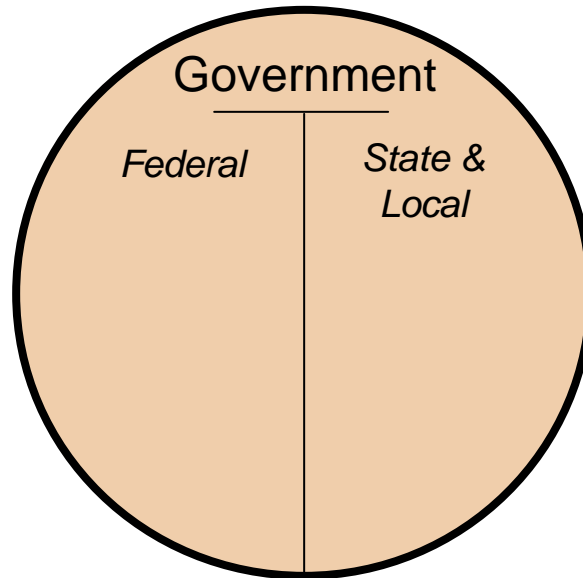◆ National and local companies reside in S.A. supporting information/infrastructure security missions

Intrusion Detection:Traffic Load

Air Force Network Traffic: 6.6 Billion Events

1.1 Billion Suspicious Connections

953,750 Real-Time Alerts

17,006 Suspicious Event Reports

Validate

87 Incidents in 2001

Malicious Logic	False Positive	Denial of Service	Poor Security Practice	User-level Intrusions	Root-level Intrusions
6	3	2	2	60	13

CIAS Concept

Education
- Higher Ed
- K-12

Government
- Federal
- State & Local

CIAS

Commercial

Government Emphasis

Government

Federal | State & Local

- **Air Force & DoD**

  - **Telecommunications Protection**

  - **SCADA Systems**

  - **Biometrics & Wireless Vulnerabilities**

  - **Intrusion Detection**

- **State and Local**

  - **Infrastructure Protection**

  - **Computer Crime w/ FBI**

Educational Initiatives

Education

Higher Ed | K-12
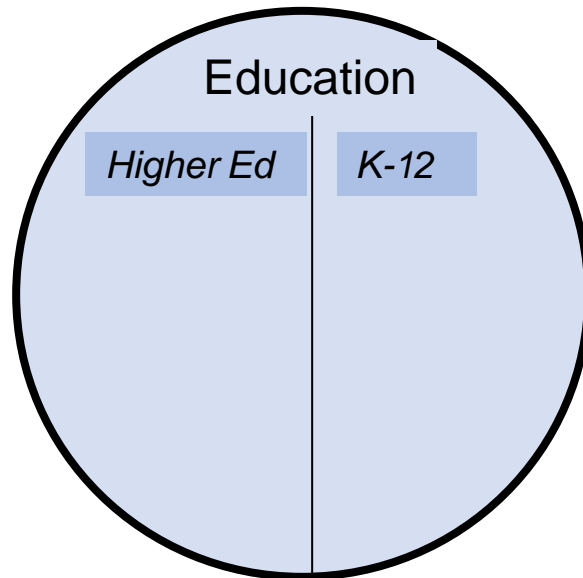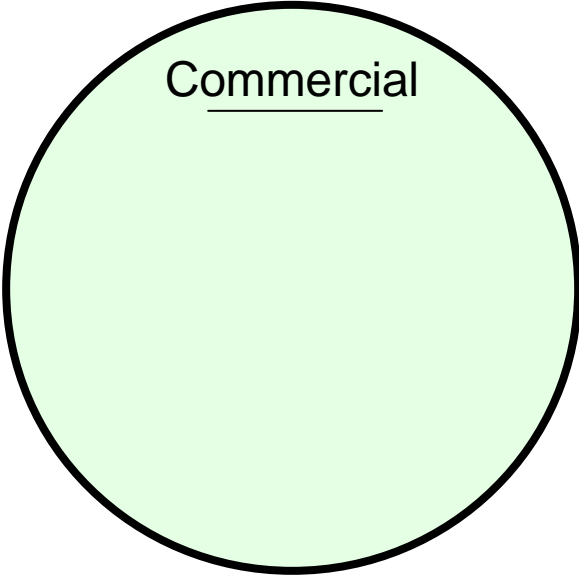
◆ **Education "Pipeline"**

- ◆ Bachelors to Ph.D. Degrees

- ◆ Community Colleges

- ◆ K-12 *(Information Technology & Security Academy)*

◆ **Mentor K-12**

◆ **R & D**

◆ **Job Placement**

◆ **Internships**

Commercial Partnership

Commercial

- ◆ **Board of Advisors**

- ◆ **Levels of funding support**

- ◆ **Dedicated Research**

- ◆ **Technology Transfer**

- ◆ **Entrepreneurship**

- ◆ **Small Business Development**

- ◆ **In-kind Expert Assistance**

Alliance Partners

Higher and K-12 Education
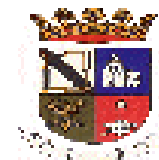
Federal Government

State and Local Government

Commercial Alliance Partners

Commercial (Representative)

CIAS Status

◆ **DoD Defense Bill appropriated $2.5M in AF Research and Development funds**

  ◆ **Contract is very close to being signed**

◆ **CIAS involved in state and federal Homeland Security initiatives (Dark Screen)**

◆ **Minor offered in Infrastructure Assurance while pursuing Bachelor's/Master's/Ph.D.**

◆ **Strong support for the Information Technology and Security Academy (ITSA)**

◆ **Plans to host seminars later this year**

Dark Screen

◆ **CM Rodriguez (TX) letter in March proposing**

"…the San Antonio region sponsor an exercise to test the San Antonio-area capabilities to prevent, detect, and respond to a cyber terrorist attack and it's ability to coordinate with local, state, and federal authorities."

◆ **Core exercise planning team lead by the CIAS includes AIA, the City of San Antonio, Bexar County, State of Texas, Law Enforcement, Industry, and Infrastructure**

◆ **Early stages – plan a tabletop in the fall, "mini-exercise" next spring/summer, full exercise next fall**

◆ **CM Rodriguez has submitted a request for $500K from the FY02 Supplemental Appropriations Bill**

◆ **CIAS is working the exercise into their budget**

Next Steps

- ◆ **"Sell the Center"**

- ◆ **Springboard off Designation as a Center of Excellence with the National Security Agency**

- ◆ **Finalize business partnership agreement & establish/maintain local funding support**

- ◆ **Continued congressional dialogue and support**

- ◆ **Establish partnerships with local universities**

- ◆ **Assist in the establishment of the ITSA**

- ◆ **Build a world class Center by luring the best in the field**

15

CIAS Points of Contact

Dr. Glenn Dietrich

Executive Director

(210) 458-5354

gdietrich@utsa.edu

Dr. Greg White

Technical Director

(210) 458-6307

gwhite@utsa.edu

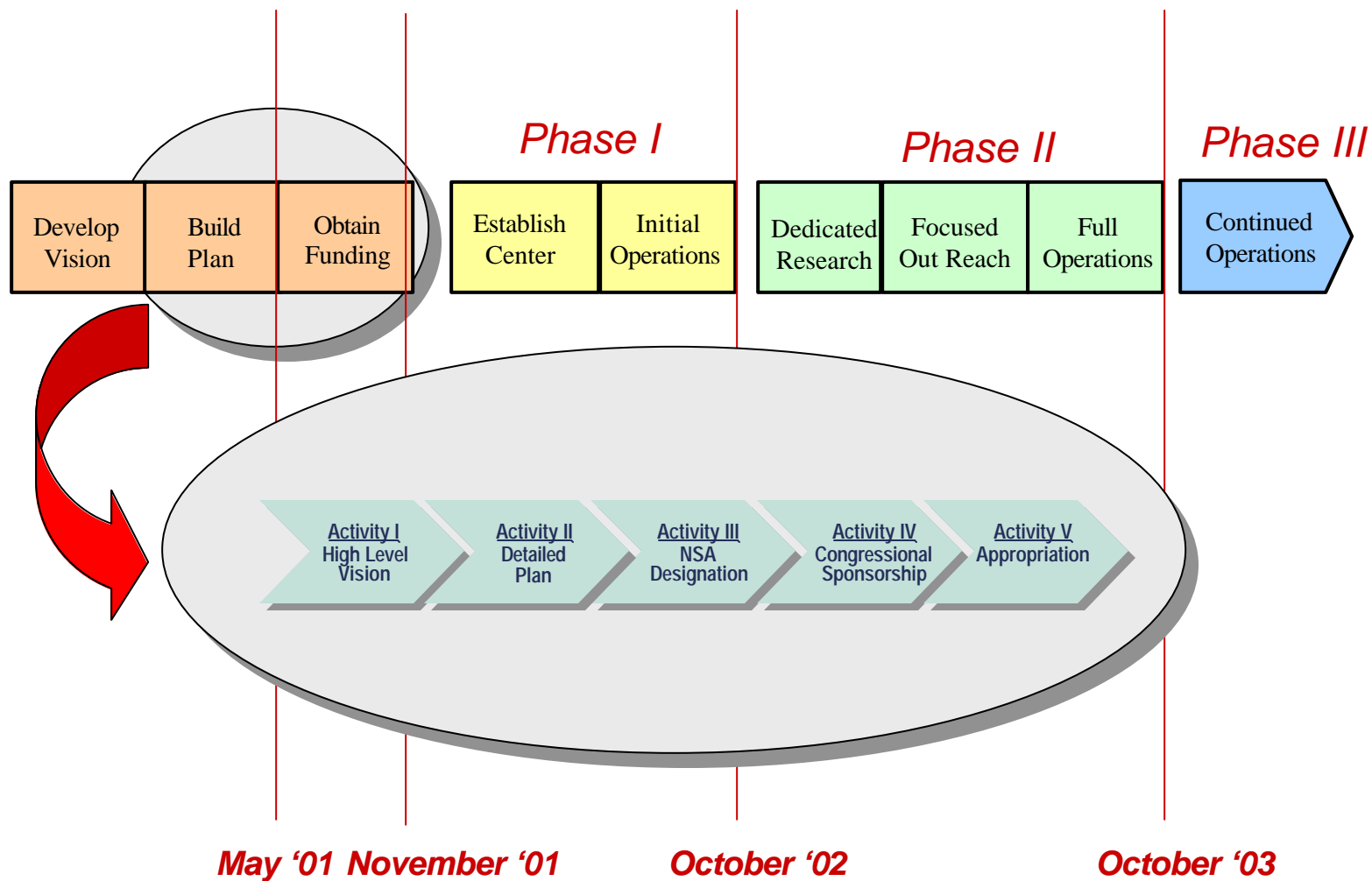Joe Sanchez
AIA Liaison to CIAS
(210) 977-3706
joe.sanchez@lackland.af.mil

(210) 458-4324
jsanchez@utsa.edu

IO Services