

Center for Infrastructure Assurance and Security (CIAS)



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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

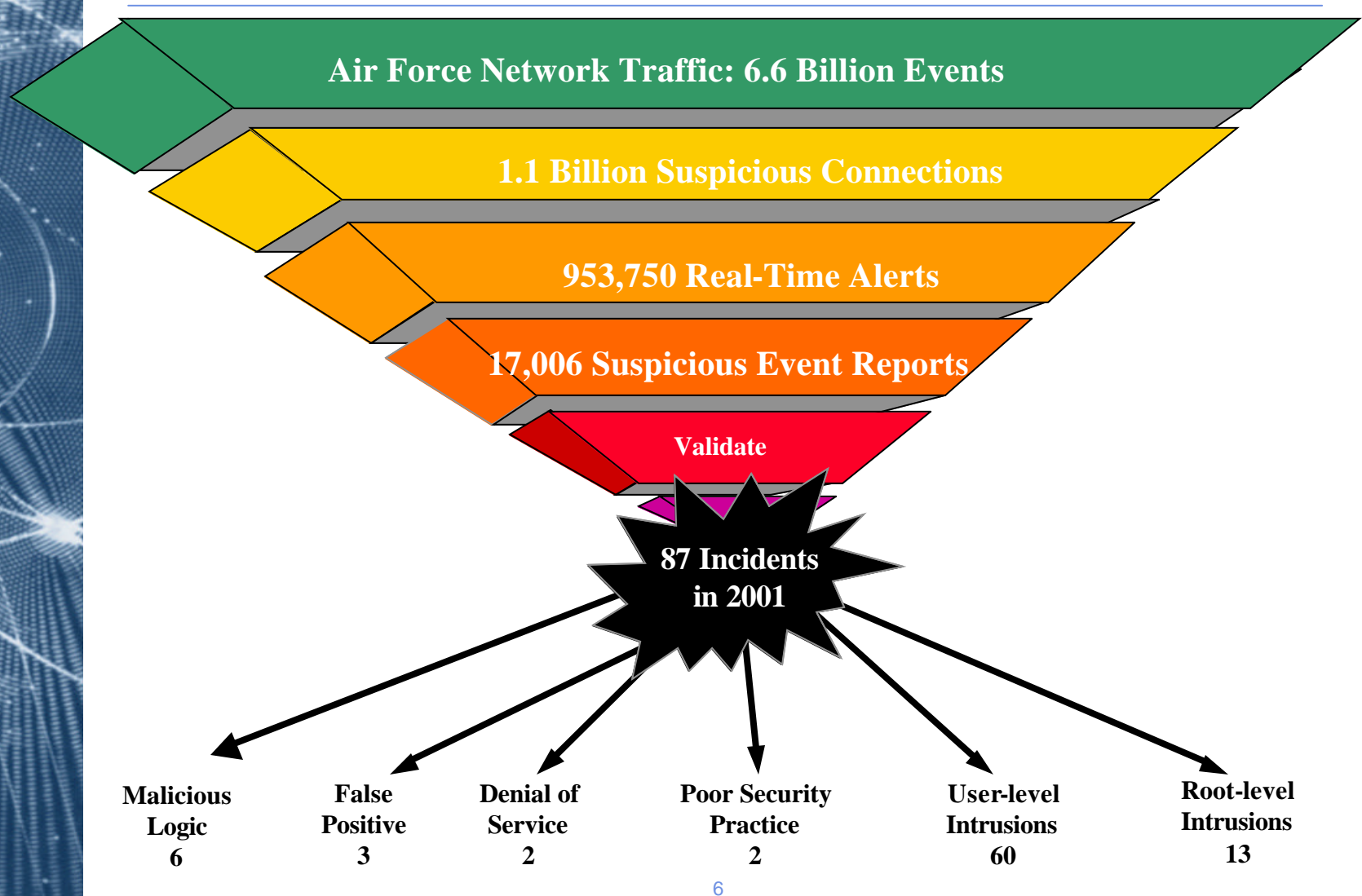


Information Security History

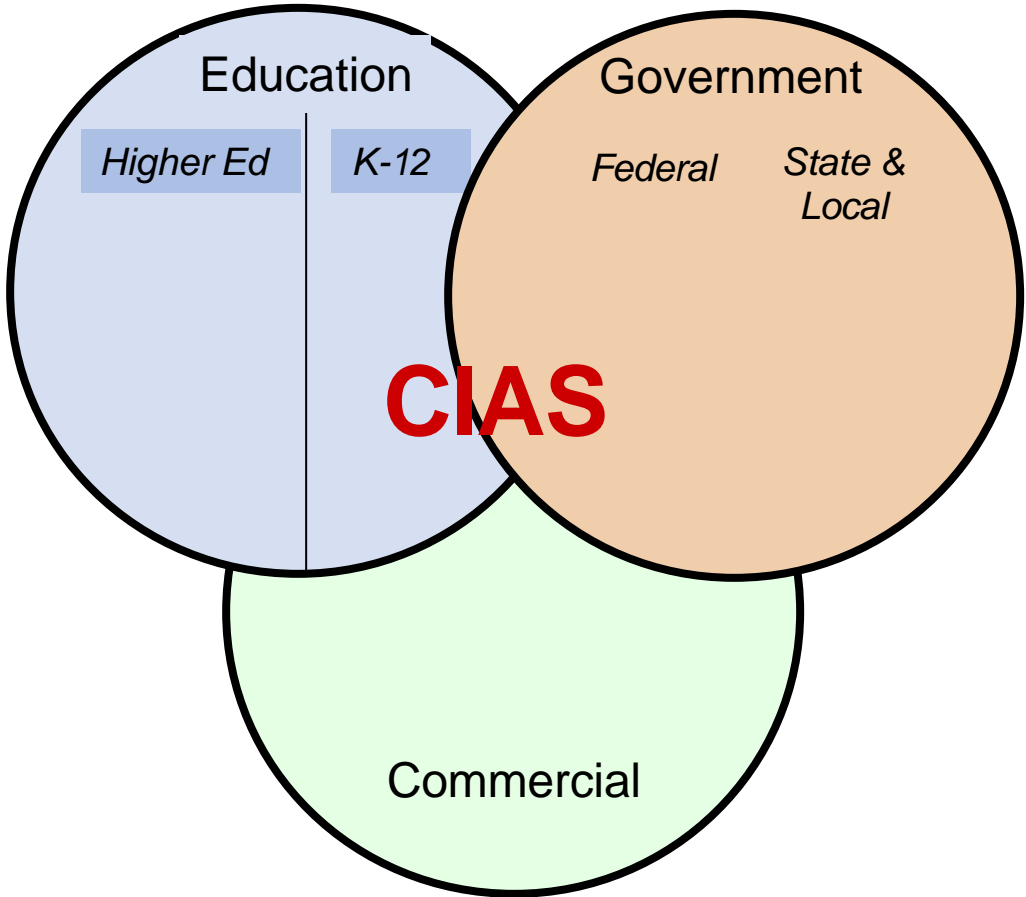
ESC to AIA

- ◆ 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

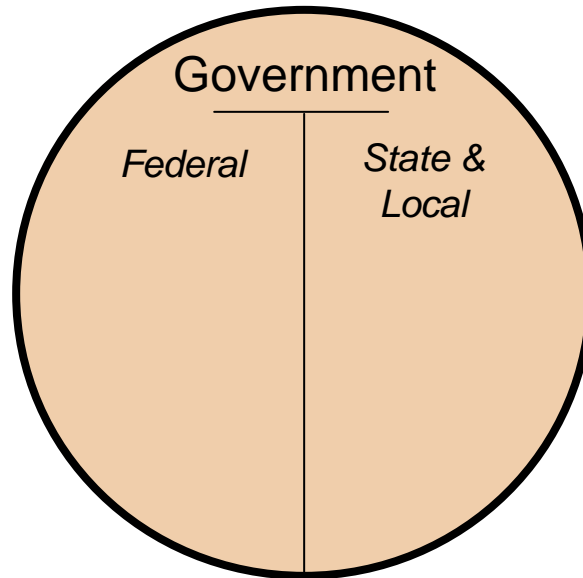
Intrusion Detection: Traffic Load



CIAS Concept

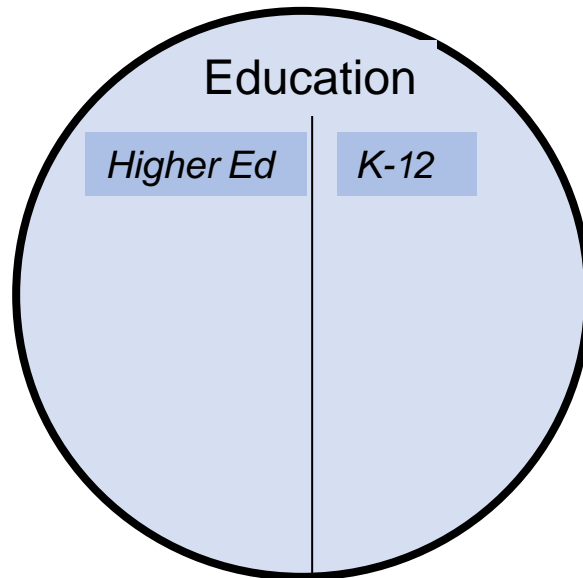


Government Emphasis



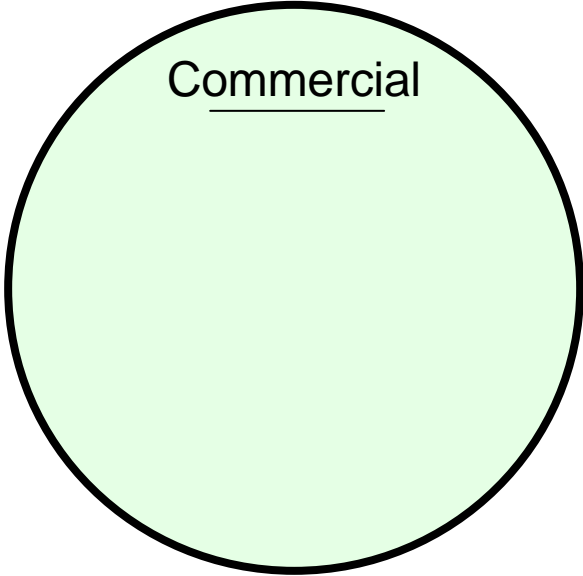
- ◆ **Air Force & DoD**
- ◆ **Telecommunications Protection**
- ◆ **SCADA Systems**
- ◆ **Biometrics & Wireless Vulnerabilities**
- ◆ **Intrusion Detection**
- ◆ **State and Local**
 - ◆ **Infrastructure Protection**
 - ◆ **Computer Crime w/ FBI**

Educational Initiatives



- ◆ **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



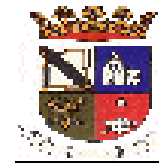
ST. MARY'S UNIVERSITY



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**



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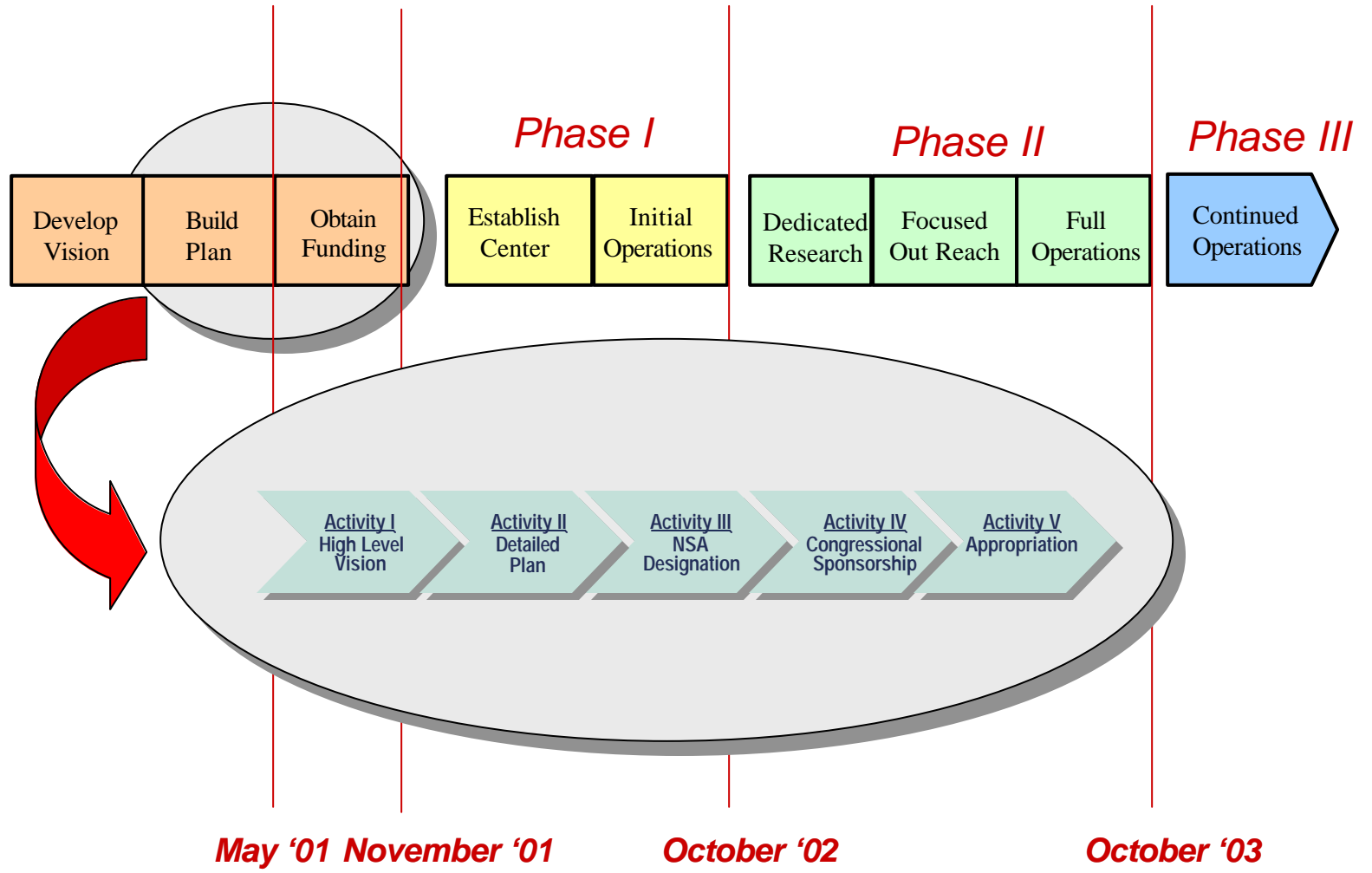
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