Air Education and Training Command

Education and Training Technology Application Program

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*Integrity - Service - Excellence*

Purpose

- AETC's innovation process (AETCI 36-2218)

- Demonstrate and evaluate innovative concepts to improve the command's efficiency and effectiveness

- Funding
  - FY04 ETTAP POM Line at $2M
  - Constant through FYDP

- One command-wide call for proposals annually
  - Out-of-cycle proposals encouraged
  - ETTAP committee selects projects -- approved by XPR

Where ETTAP fits

Acquisition

Application
(ETTAP)

RDT&E
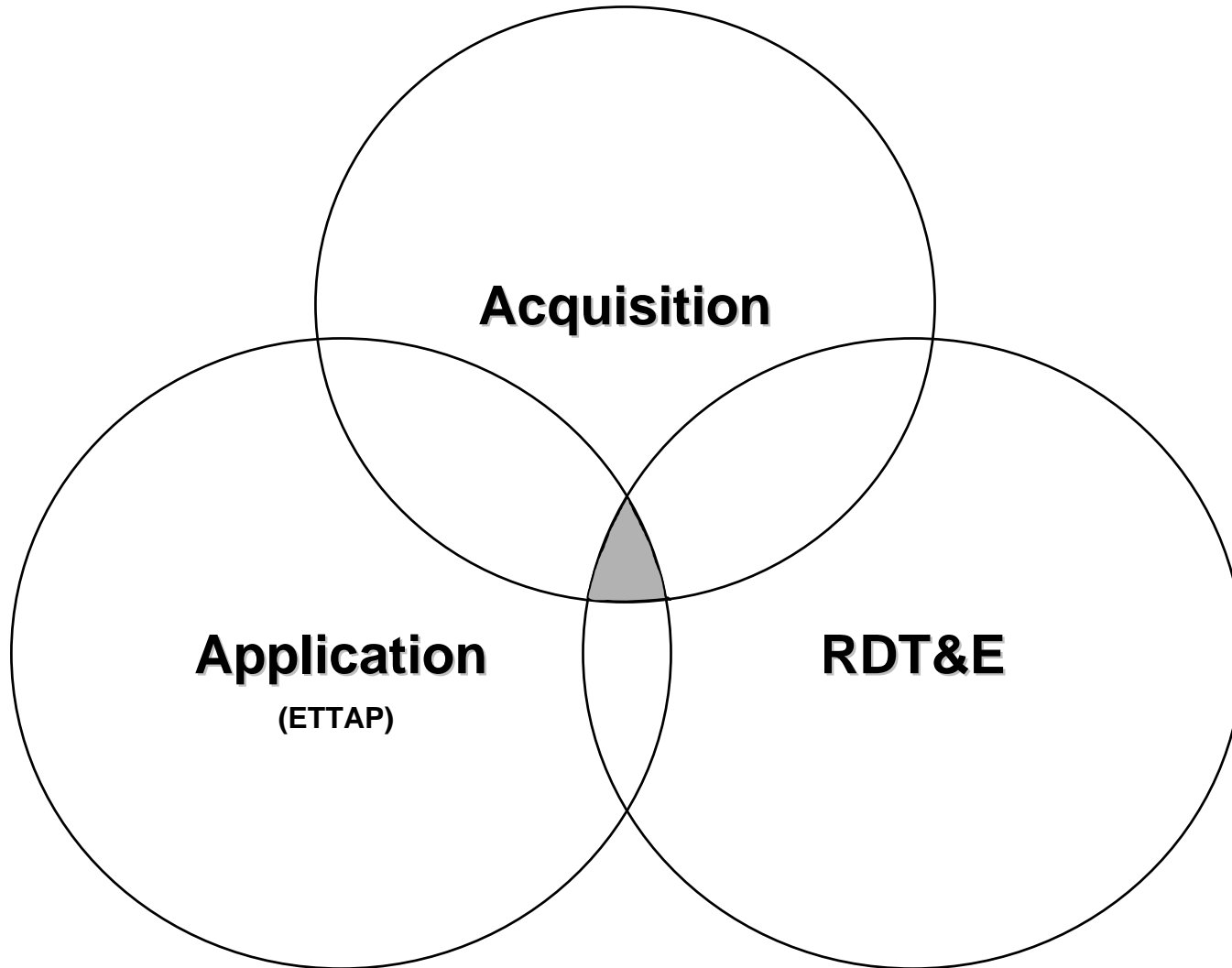
ETTAP Project Elements

- An innovative proof of concept

- High Tech ideas at relatively low cost

- Ideas for which results can be quantitatively measured

- A project that can be completed within one year

- A project that can be used across command or AF

ETTAP Projects

VANDENBERG
- ICBM Operational Procedures Emulator

SCHRIEVER
- Crew Resource Mgmt Debriefing Tool

SHEPPARD
- Hand-Held Ultrasound
- Voice Recognition for Curriculum Development

ALTUS
- KC-135 Boom Operator 3-D Visuals

AFIT
- Data Mining for Weather Education

MAXWELL
- Electronic Essay Evaluation
- Artificial Intelligence Tutoring
- Virtual Private Networking
- Automated Transcript Transfer

PHOENIX
- GTACS DMT Training Technology

KIRTLAND
- MC-130 EW Embedded Simulator

GOODFELLOW
- Norma Brown Fire Protection VR

RANDOLPH
- Advanced Technology for Flying Training

RANDOLPH
- Spatial Disorientation Device

LACKLAND
- Automated Marksman Scoring Sys
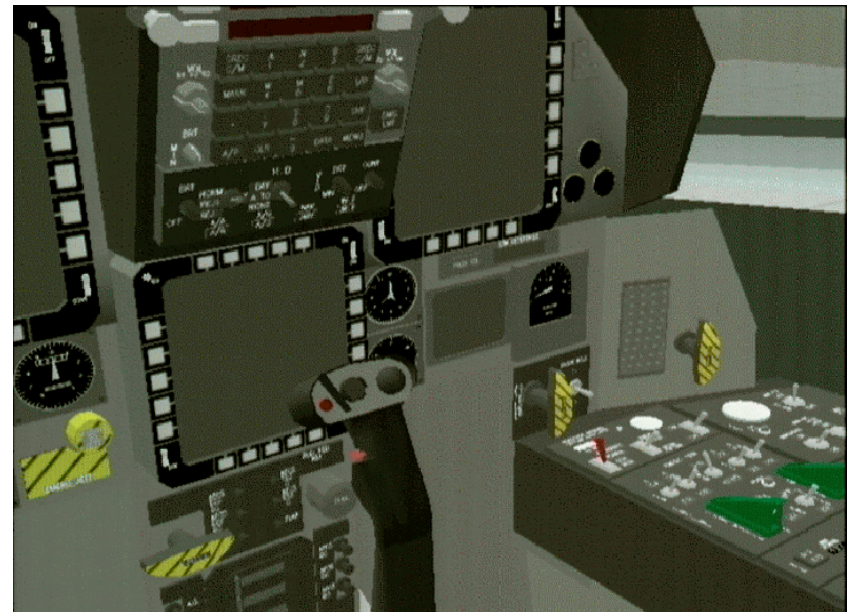
KEESLER
- Student-Centered Multimedia Learning
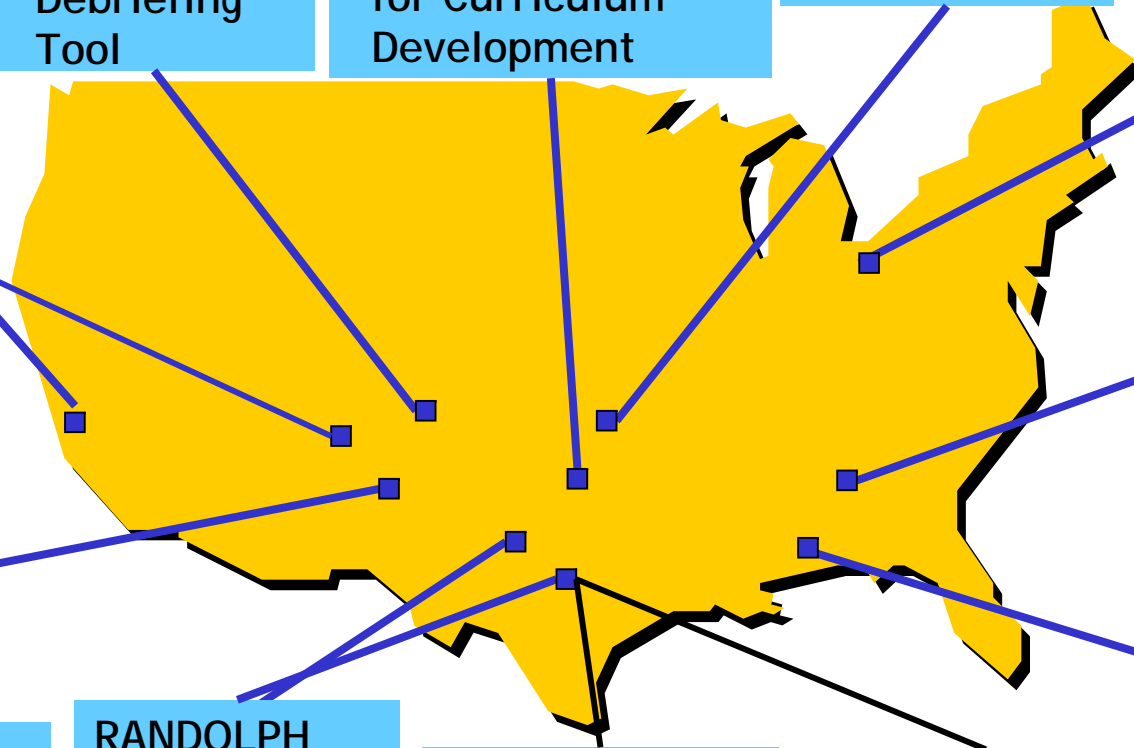
F-15 Virtual Reality

- F-15 E Safe-for-Maintenance Interactive Courseware

  - Determined Virtual Reality can replace a Hardware Trainer

  - Lower 3-level Certification Time

  - Springboard for Generalized Operations Simulated Environment (GOSE)

Schematic Power Browser

- Keesler developed software integrated with a Smart Board to explore multimedia instructional methods

- Benefits:

  - Easy to use instructor tool

  - Enables use of non-standard presentation materials

  - More efficient instruction

  - Increased comprehension

Electronic Books

- Replaces paper media with electronic media

- Benefits:
  - Saves reproduction costs
  - Faster course updates
  - Portability

- Uses
  - Mobile Training Teams
  - Very dynamic courses
  - Top Secret level courses
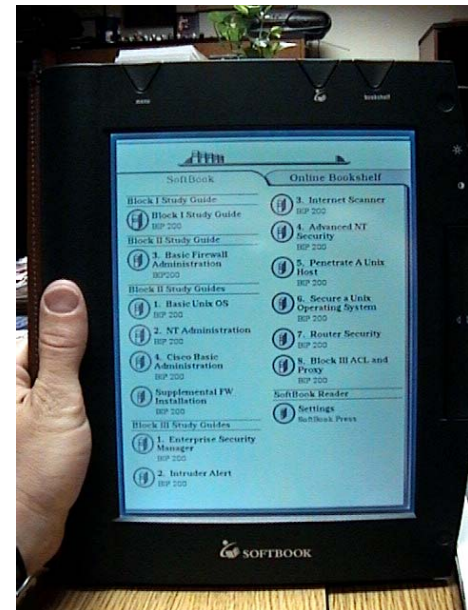
Electronic Classroom

- Blended and multimedia instruction

- Automated testing and records

- Benefits:

  - Helped define elements for a standard AETC electronic classroom

  - Near continuous feedback on student progress

  - Measure instructional efficiency and effectiveness

Summary

- ETTAP – AETC's Innovation Process

- First step to link new technologies to solve education/training inefficiencies and deficiencies