
CAES CAVE

Immersive Visualization

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October 19, 2009

CAES

Center for Advanced
Energy Studies



BOISE STATE
UNIVERSITY



Idaho State University

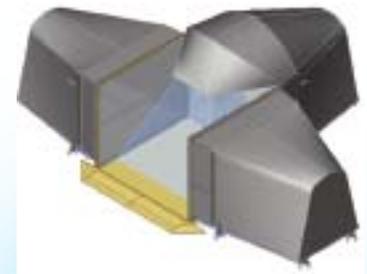
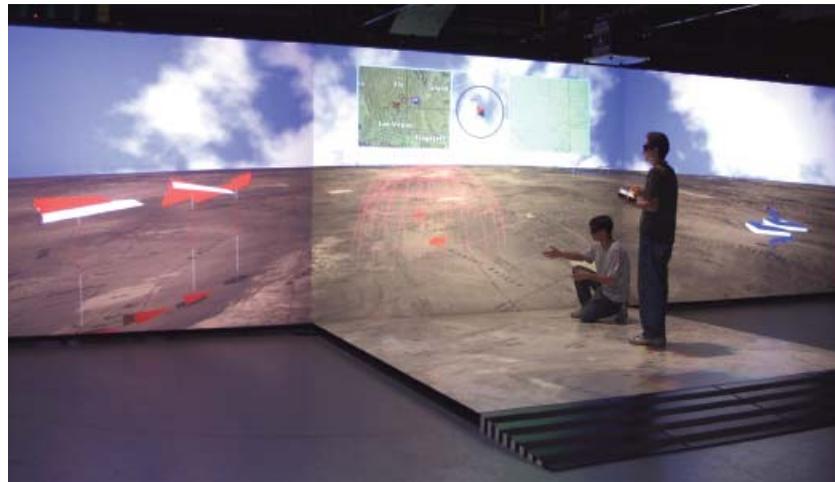
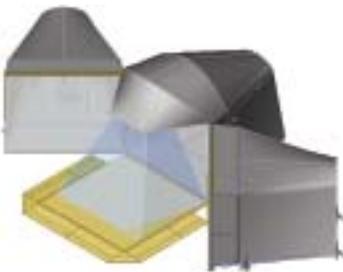


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What is a CAVE?

- A CAVE is an immersive visualization environment
- The CAES CAVE will have 3D stereo images on three sides and the floor
- While in the CAVE, a position sensor tracks the direction of the user's view and adjusts the images accordingly
- The FLEX CAVE will have moveable walls to support different display modes: angled screen, flat screen, or four surface cave



Intended Uses

- Primary uses
 - Human Factors Advanced Control Room Simulation
 - Energy/Environment Virtual Engineering
 - Advanced Test Reactor
 - Scientific Visualization
- Other potential uses
 - Facilities Virtual Walk-Through
 - Design Validation
 - Training

Schedule and Dependencies

- Parallel Activities
- CAES rooms 212/213 modifications
 - September 2009
 - ISU subcontract for Architectural and Engineering work (Completed)
 - Architectural and Engineering work (Completed)
 - October 2009
 - ISU subcontract for CAES rooms 212/213 modifications
 - November/December 2009
 - Complete CAES rooms 212/213 modifications
- GPCE funding identified for the procurement of the CAVE
 - GPCE will not be available while under continuing resolution
 - Procurement (~December 2009)
 - Vendor timeline is approximately 4 months (~April 2010)
 - Acceptance (~May 2010)

Idaho National Labs Flex Preliminary Schedule

