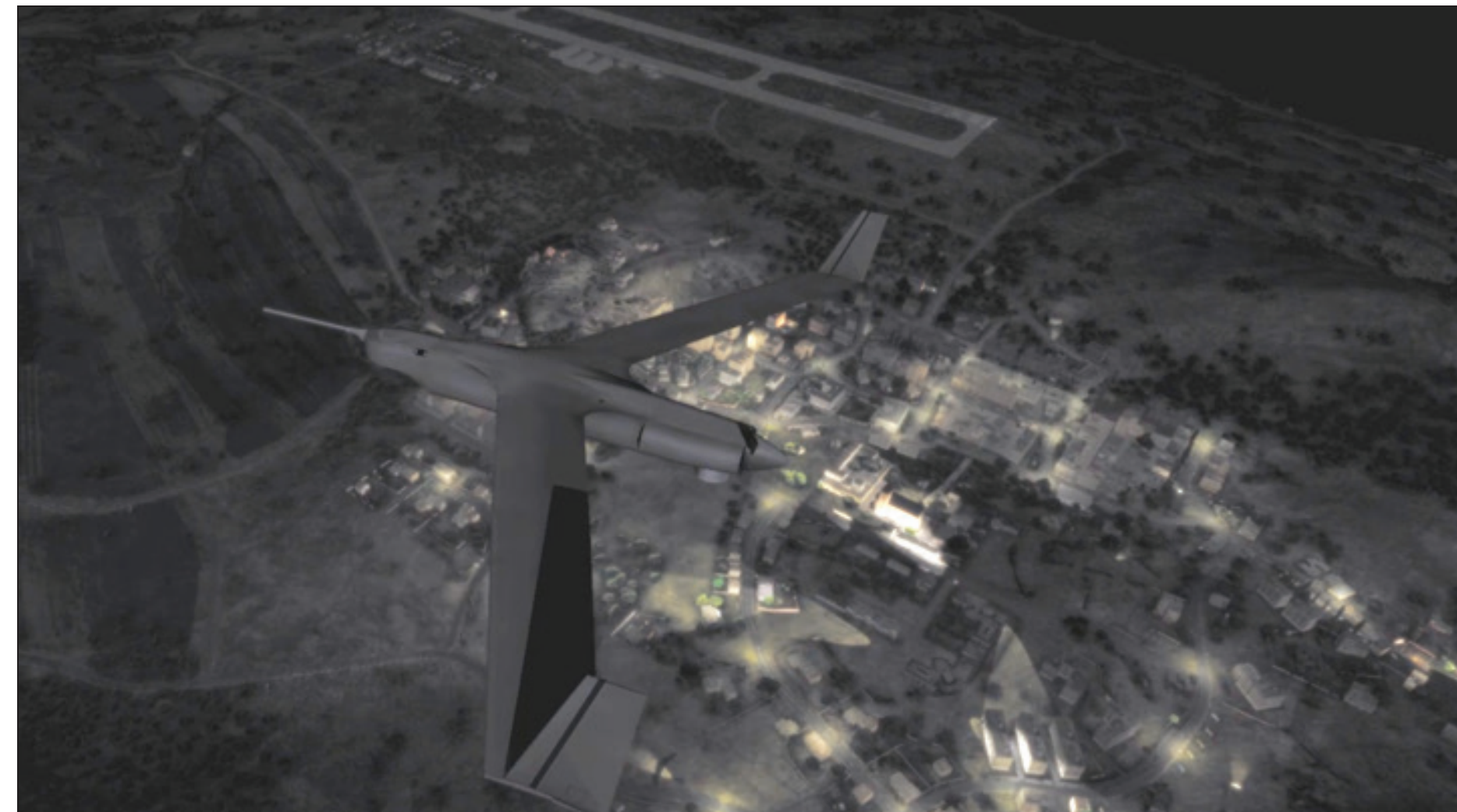


# Utilizing Serious Games to Assist Motivation & Education

## Leveraging: Cyber Kinetic Effects Integration (CKEI)

In an increasingly interconnected world, DoD is tasked with completing missions requiring cyber operator support. DoD has limited resources for continuing training. The cyber operator community is largely driven by outliers; experts creating new capabilities usable across the community. Our program aims to stimulate the creation of experts by bringing together the cyber and kinetic domains to create a highly motivational training experience.



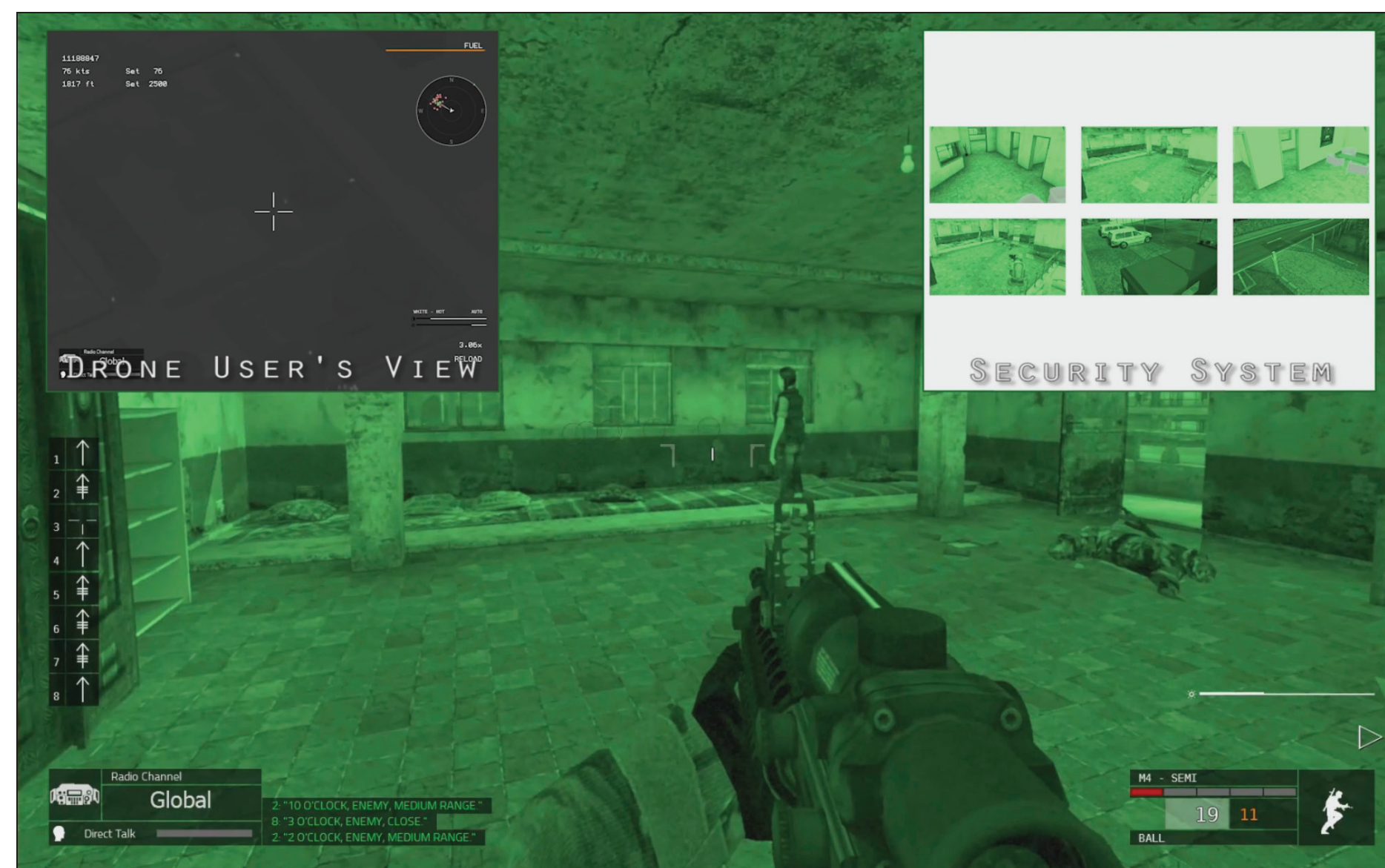
**Tactical Resources Defense:** Friendly assets are modeled in game and attackable. Failure to defend cyber terrain may result in loss of communications, or the crashing of intel drones.



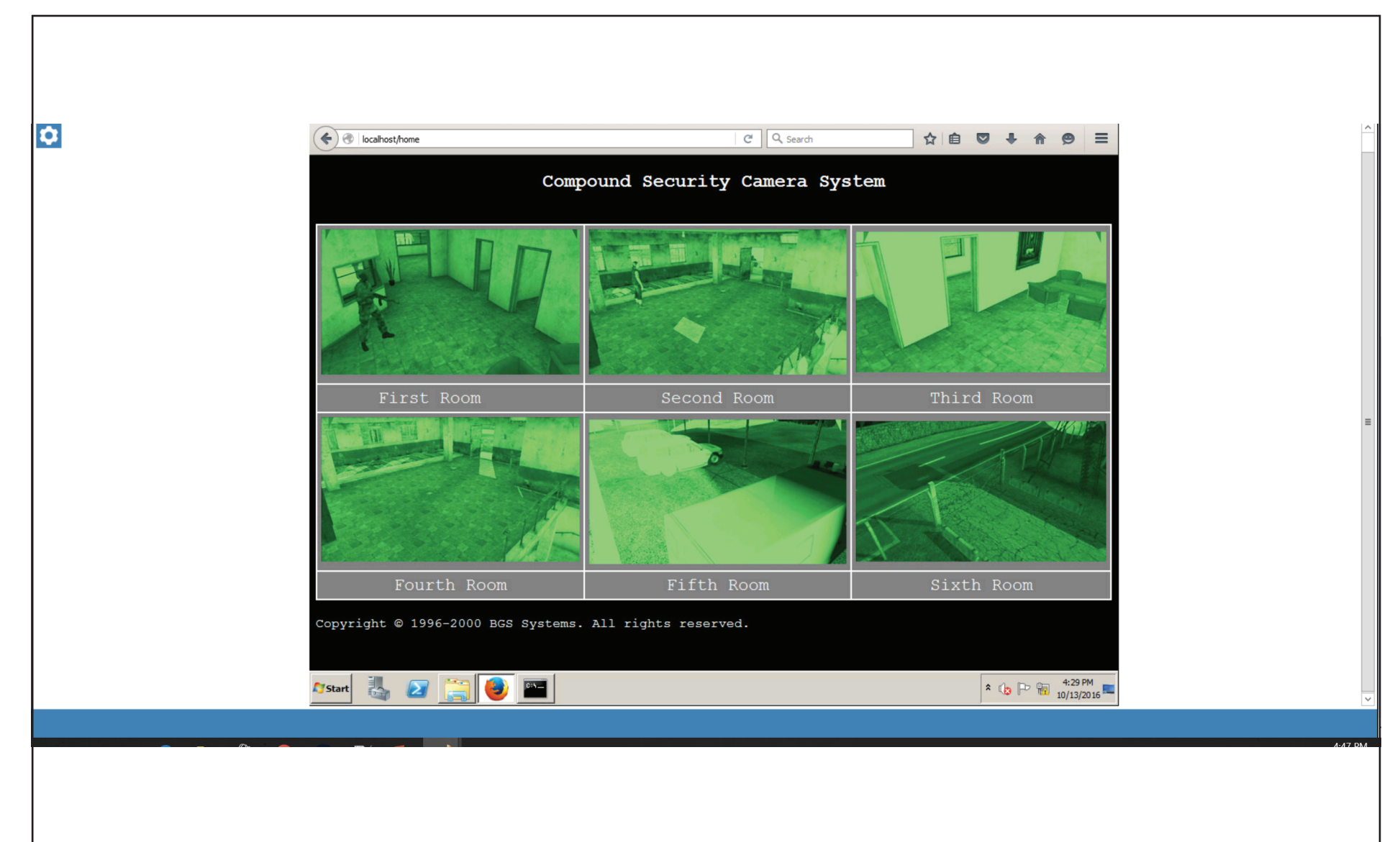
**User Testing:** Events conducted as part of ISC2 High-school Summer Cyber Challenge to gauge effectiveness.

### Approach

Integration of realistic kinetic simulations with our existing cyber simulation capabilities can be used to create a gamified training experience that simulates the complex realities of a cyber-physical environment and also captures the attention of participants to drive emotional investment in the mission.



**Shared World:** Special Operators, Drone Operators, and Cyber Operators must work together cohesively to complete missions within the environment.



**STEP Technology:** Mature cyber range capability provided by STEP technology modified to allow seamless connection to kinetic simulations.



**Combined Landscape:** A fully modeled cyber-physical environment allows participants to explore and develop new strategies for completing their missions.