



TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

U.S. Army Research, Development and Engineering Command

U.S. Army Research Laboratory

Human Dimension and Training Technology Areas of Interest

Objective: To provide advance planning information regarding ARL Technology areas of interest. Note: The information provided is not a solicitation, a request for proposal or quotation, an invitation for bids or a broad agency announcement.

Requested Innovation: Soldier Adaptability/ Human Dimension

Description: During full spectrum operations Soldiers are often faced with critical transitions between kinetic and non-kinetic activities that require extreme levels of adaptability between non-lethal and lethal postures. Often these transitions require significant realignments of thought and action, as when a combat situation changes from killing enemy insurgents to protecting noncombatants in the area of operation. Both anecdotal and scientific evidence demonstrate that such adaptations take time, and that during periods of transition individuals are uniquely susceptible to degraded performance

Technology Areas of Interest:

- With regard to training, effective training methods focused on the needs of individual Soldiers relative to adaptability are required. These methods should be developed into networked simulators for squad-based training in non-kinetic situations.
- For transition-supporting technologies and ongoing assessment systems, a greater understanding of the relationships among physical, physiological, and cognitive processes that affect information processing and decision making and the associated decision support requirements is needed.,

Targeted Timelines:

- Training in networked simulators: 3 to 5 years.
- Transition supporting technologies and ongoing assessment systems: open.

EDGE Call for Innovation (CFI)

“CFI ARL-Soldier Adaptability/HD-010”