

Army Expands Virtual Training to Better Prepare Soldiers for Modern Warfare

July 30, 2025

— Categories: Defence & Security



The U.S. Army is accelerating its shift toward high-tech virtual training, aiming to better equip soldiers for complex, multi-domain combat operations. With new simulation platforms and wearable tech already in use, the Army is integrating more realistic and flexible training tools into its overall readiness strategy.

Central to this effort is the adoption of Virtual Battlespace 4 (VBS4), a simulation platform reportedly used at more than 80 Army locations. The platform allows for large-scale, scenario-based training with improved graphics, global terrain modeling, and streamlined performance. Soldiers and commanders can rehearse missions, run tactical drills, and practice decision-making in a realistic but controlled environment, all without the cost and logistics of traditional field exercises.

In addition to software improvements, the Army is deploying haptic technology through its Live Training System program. Wearable gear simulates the physical feedback of real-world combat, such as the recoil of firearms or the shock of nearby blasts. These tools bring a new level of immersion, helping soldiers build muscle memory and sharpen battlefield instincts without live ammunition.

This virtual training approach is part of the Army's broader Synthetic Training Environment (STE) initiative, which blends live, virtual, and constructive elements into a unified system. The goal is to allow soldiers to train effectively from their home bases, deployed settings, or dedicated training centers, sometimes simultaneously, while reducing equipment wear and overall training costs.

Units such as the 2nd Multi-Domain Task Force and the Combined Arms Center have reportedly begun using these systems, highlighting the Army's focus on preparing troops for joint, all-domain operations. At Fort Cavazos in Texas, soldiers from the 1st Cavalry Division are among those testing the Synthetic Training Environment's effectiveness through indoor simulation programs.

Army leaders say this model not only enhances repetition and adaptability but also allows for faster updates to training scenarios based on real-world threats. The Army is also working with defense contractors to further develop cloud-based simulation platforms, terrain data systems, and artificial intelligence tools aimed at enhancing training across the force.

As modern warfare evolves, the Army is betting on virtual training as a way to keep soldiers sharp, flexible, and combat-ready, no matter the environment or mission.