Transforming British Army Collective Training

Hadean's spatial computing platform modernises how soldiers train to face the complexity of a real operating environment.

The Army Collective Training System (ACTS), formerly known as the Collective Training Transformation Programme (CTTP), is a UK Ministry of Defence initiative which aims to overhaul British Army training protocols and enhance how soldiers prepare for multi-domain operations in the dynamic modern battlespace.

Hadean was chosen to demonstrate the power of a cloud-distributed simulation by orchestrating in-service training systems and blending 2D, 3D, and Live, Virtual and Constructive (LVC) elements into one immersive training simulation. This would be capable of running large training scenarios for remotely located physical and virtual users, without compromising on fidelity or complexity.

Blended 2D, 3D and LVC
elements of training environments
into a common operating picture

**Globally distributed
training harnessing**
legacy and next gen simulators

Hadean's Role

Hadean's AI-powered spatial computing platform transcends the boundaries of existing simulation systems to maximise training output by creating a common operating picture for multi-domain training that reflects the strategic complexity of the real world.

Responding to ACTS requirements, it achieved the following:

- Combined data from multiple sources and simulators into a common operating picture

- Integrated disparate systems to allow simultaneous tracking of LVC elements with a scalable backend allowing for unlimited entities to be tracked and/or simulated

- Centralised data management to allow for seamless filtering of data and viewpoints at a command level

- Ensured reliable, undisturbed, low-latency connectivity for globally distributed users on any device, even in austere conditions

- Integrated data analytics and monitoring to capture insights for improving training capabilities and future performance output.

Get an in-depth look at how Hadean delivered the ACTS Pathfinder in this demo video

Benefits

- Federation of previously incompatible simulation systems and data points

- Shared real-time world view for all trainees and commanders, whether connected locally or remotely

- Seamless configuration of scenarios and viewpoints from command centre without disrupting training or immersion

- Assets and resources accessible from the cloud, reduced need for on-site hardware

- Instant replay and real-time analysis from recorded data for improved training outcomes

"Hadean has successfully proven the feasibility of the Collective Training Transformation Programme's Platform Approach to collective training. This approach will support the British Army's Strategic Objective to modernise and transform Collective Training, by providing the ability to represent the complexity of the contemporary operating environment."

Brigadier John Wakelin, CTTP Programme Director, British Army