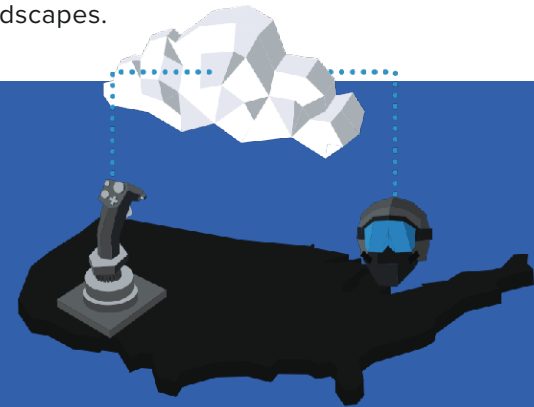# TRAINING, SIMULATION, AND WARGAMING

Modern weapon systems are built on digital platforms that rely on data sharing to counter increasingly complex and lethal threats — and the systems warfighters depend on for training are lagging in sophistication. The next generation of training systems require platform agnostic, interoperable simulators that equip warfighers to operate in a new domains and threat landscapes.

The Component Software Integration Approach

The CSI approach to engineering enables training and simulation systems to be developed using modern open architecture standards with interoperability as a key requirement, so distributed teams using disparate platforms with varying security requirements can access highly relevant training scenarios.

Pillars of Integrated Training & Simulation

Interoperability

Each military branch has unique architectures and standards. Tangram Pro™, our Component Software Integration Platform (CSIP), converts data between standards with high accuracy and security, enabling multiple services to operate within a shared simulator ecosystem.

Rapid Integration

Traditional training scenarios are tedious and time consuming to update. With a mix of MBSE tools, interface code generation, automated message transforms, and DevSecOps tools, operators of training systems can rapidly update, reconfigure, and share new scenarios with their teams.

Multi-Level Security

Next gen training needs to operate simultaneously across multiple platforms operating at multiple levels of security. A CSI approach uses interface generation to facilitate secure data messaging between levels of classification and authorization.

Training, Simulation, and Wargaming with Tangram Flex
Related Intitiatives

TWIST (Phase III SBIR; AFMC): Tangram Flex is enabling remote and collaborative wargaming and demonstrating the application of component-based engineering to enable distributed wargaming and faster integration of new technologies in simulation systems.

Assured Co-Simulation (Phase III SBIR; AFRL/RQQ): Tangram Flex is supporting the development of a toolset that can be used to architect a system of multiple simulations connected together as a co-simulation.

AFMS3 Support (Subcontractor to Huntington Ingalls Industries; AFAMS): Tangram Flex supported cloud deployment of AFSIM, including containerization of a terrain model.

AFMS3 (SAIC): With subject matter expertise, Tangram Flex is supporting the SCARS program office, future-facing Joint Training Simulation Environment (JTSE), and the Simulators Innovation Cell.