ARSOME Technology:
Customized Augmented and Virtual Training

NCMS Technology Showcase
FRC East

PROBLEM STATEMENT

Our military units may face multifaceted training, maintenance, & repair challenges depending on geography, equipment complexity, austere environments, & access to in-theatre maintenance contractors, requiring the DoD to keep up with technological advances to maintain superiority on the battlefield. Various technologies have offered piecemeal solutions, resulting in increased system complexity, cost, & multiple systems to support.

BENEFITS

AR-based holographic capabilities allow maintainer(s) to overlay step-by-step maintenance & repair operations with field-deployed equipment. 3D field of view can be shared with off-site SME for real-time support.

Logistics & Supply Chain Management: Optimize logistics & supply chain operations, including AR-based inventory management systems, navigation tools, & digital content. Handheld scanners can take a 3D image of parts to share with depots & shipyards to reduce the time of fabrication, thus reducing operational downtime.

TECHNOLOGY SOLUTION

Augmented & Virtual reality End-to-End Repair, Training, & Maintenance (AVEERT-M) is an ARSOME software solution that combines several subsystems to support training, maintenance, & repair solutions that integrate pre-operations equipment maintenance training, holographic augmentation for step-by-step repair or maintenance directions, with live SME support, & ability to perform handheld scans of unique parts for fabrication by depot level maintenance facilities, shipyards, & / or CNC milling.

GRAPHIC