Veterans Health Administration

"Converting flat medical images into interactive 3D holograms not only makes medical information more useful and understandable, but it also positively transforms our ability to care for our patients."

— Dr. Thomas Osborne, Director for the National Center for Collaborative Healthcare Innovation

Project Convergence Partners

Veterans Health Administration

Microsoft

Medivis

Verizon

Key products and services

Microsoft Azure

Microsoft HoloLens

Situation

To provide the best and most advanced care possible for our Veterans, VHA is spearheading the development and use of new technologies. Project Convergence is a partnership between VHA, Microsoft, Medivis, and Verizon to build 5G-enabled mixed reality experiences for clinical care, teaching, and training.

Solution

Project Convergence is spearheading three different fronts: clinical education, surgical planning and guidance, as well as virtual telepresence for remote visits. AnatomyX is a holographic atlas of human anatomy, SurgicalAR transforms 2D radiology images into interactable 3D forms, and work is underway to utilize the HoloLens 2 and Kinect to enhance distant care.

Impact

AnatomyX provides a platform for impactful education and training. SurgicalAR enhances physicians' ability to prepare for surgeries, virtually assist others on challenging case, and train new techniques. Soon, SurgicalAR will be deployed to operating rooms for use in live procedures, while mixed reality remote presence will bring a new human element to telehealth and professional collaborations.