VirtualiSurg Mediverse accelerates training for surgery and health-tech sectors globally

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Immersive 3D virtual workspace, created in Extended Reality (XR), boosts technical skill proficiency in surgical training

Paris-headquartered international medtech firm, VirtualiSurg has created an immersive mediverse – a virtual learning platform in Extended Reality (XR) for surgical training and all other professions requiring manual dexterity.

The virtual workspace is powered by machine learning, a powerful data analysis system and evaluation metrics determined by top clinicians. Immersive XR simulators and touch sensations created by high-fidelity Haptics technology offers a rich multi-sensory experience, combined with physical motor learning, which are proven to increase knowledge retention and accelerate technical skill adoption. Optimised for convenience and unlimited use, portable VR headsets and equipment allow for training anywhere and anytime.

Founded by CEO Nicolas Mignan, VirtualiSurg is committed to improving patient outcomes globally, ensuring greater access to world class healthcare and medical education. VirtualiSurg improves the hospital's on-site training programs with its XR technology, boosting skill proficiency across nursing staff and patient safety at scale. VirtualiSurg's training model and technology are based on forging episodic memories through 'learning by doing' in the virtual space, therefore accelerating skill adoption by coding the experienced repetitive gestures into the brain. As a result, the brain's motor cortex is linked to manual dexterity, and trained to be efficient and automatic, in a similar way to how music is learned.

Created as immersive 3D environments in Extended Reality, the VirtualiSurg technology endeavors to improve patient care by creating wider access to world class medical training and collaboration. The mediverse can unite students and seasoned clinicians globally, allowing for cross border collaboration on challenging cases, and rapid knowledge transmission, at a greater scale.