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The mission of VUZE Medical is to create an improved Standard of Care for guiding millions of spinal interventions performed annually. Despite the challenging anatomy, their vast majority is aided in the OR only by 2D X-ray, mainly due to X-ray's simplicity and affordability. **Rising cost pressures encourage a migration to outpatient and ambulatory settings**, which dictates being minimally-invasive, which stresses the dependence on X-ray.

FDA-cleared, the VUZE™ System is a much-needed software-based complement to traditional hardware-intensive navigation systems. Those all use elaborate and costly equipment (camera arrays, on-tool markers, on-body references, typically an in-OR CT) for navigating on a 3D scan. All demand modified surgical tools, detailed preparations and a restrictive workflow. **Available for decades, their use remains limited mostly to complex inpatient surgeries.**

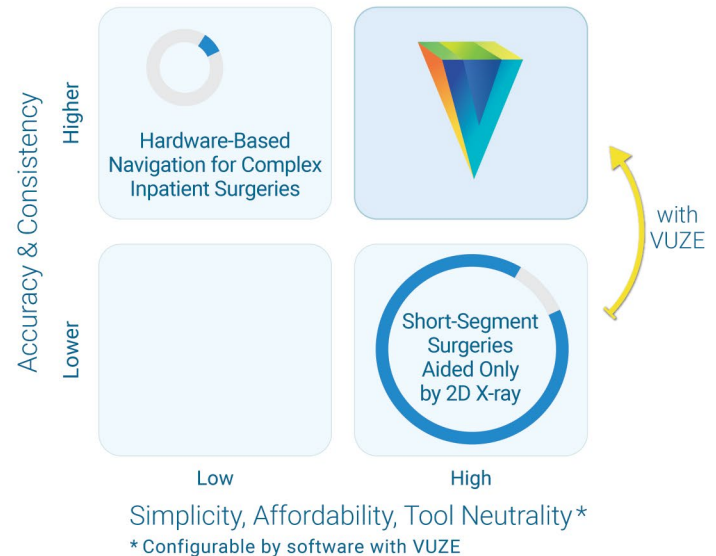
In contrast, VUZE requires only a standard 2D X-ray and an off-the-shelf PC and works with unmodified surgical tools. With proprietary software algorithms, it instantly overlays tools seen in live 2D X-rays on matching vertebral cross-sections from a standard pre-operative CT or an in-OR 3D scan. The familiar X-ray guided workflow is maintained and even simplified (no lateral views are needed). **Watch VUZE System Overview**

Clinical use in over 100 patients by 13 surgeons, and cadaveric surgeries in 32 specimens by 31 surgeons, show very high accuracy and notable ease of use in minimally-invasive thoracolumbar fixations, fixations coupled with fusions, and augmentations. **Watch Surgeon Impressions**

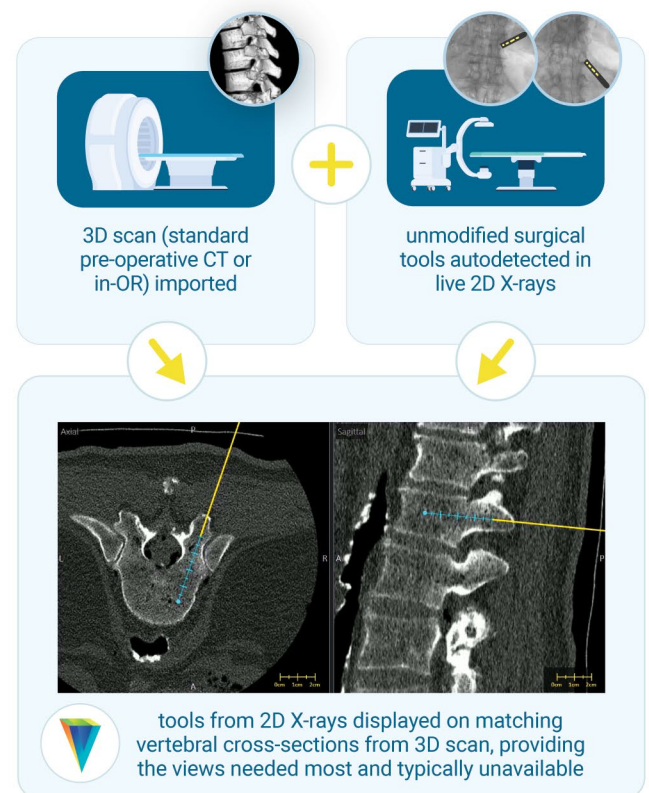
13 granted patents address core capabilities as well as co-use with robotics, augmented reality, machine learning and traditional navigation. All patents but one are not specific to spine.

The anatomy-neutral VUZE technology was already extended in cadaveric surgery to sacroiliac and cervical fixations, pain therapy and open surgery. Additionally, **world first concurrent multi-tool 3D guidance** was performed. **Watch Tandem Mode**

The ten-person VUZE Medical team brings strong expertise in adding computer guidance to common interventions, including **twice developing an improved Standard of Care**: superDimension in bronchoscopies (now Medtronic, ~1,000 installations) and SyncVision in coronary catheterizations (now Philips, ~4,500 installations). **Watch VUZE Winning NASS Innovation “Shark Tank”**



using only a 2D C-arm & PC running VUZE



NO cameras | NO markers | NO references
NO tool add-ons | NO workflow disruptions