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*Accelerate the world's transition to medical XR through spatial computing and spatial intelligence.*

**ORamaVR S.A.**

1 FORTH Institute of Computer Science

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## ABSTRACT

ORamaVR, a spin-off of the Foundation of Technology-Hellas, Institute of Computer Science, is accelerating the world's transition to medical XR through spatial computing and spatial intelligence.

Today, we face a critical challenge in global healthcare: nearly 5 billion people lack access to essential surgical and anesthesia care and only in Europe we witness 160K fatalities due to medical errors each year. The current medical training system has remained largely unchanged for over 150 years, leading to severe shortages in healthcare personnel and an alarming rate of medical errors. These issues are exacerbated by the outdated and inefficient methods used to train and assess medical professionals. In this context, the urgent need for innovative solutions that can enhance training, reduce errors, and improve patient outcomes is more apparent than ever.

We are at the dawn of a transformative era in medical education, where Extended Reality (XR) and Artificial Intelligence (AI) i.e. spatial computing and spatial intelligence, can revolutionize how healthcare professionals are trained and assessed. By leveraging these cutting-edge technologies, we can dramatically reduce the time, cost, and effort required to create high-fidelity medical simulations. This shift will not only make training more accessible but also significantly improve the skills and confidence of medical professionals worldwide. As we continue to develop and refine these tools, we see the potential to address the critical gaps in global healthcare, ultimately leading to safer, more efficient, and more equitable care for all.

ORamaVR's approach centers on the MAGES-SUITE platform, an AI-powered, low/no-code software that enables rapid creation and deployment of high-fidelity medical XR simulations. Unlike traditional methods that are time-consuming and costly, our platform allows institutions to produce complex training scenarios in a fraction of the time and at a fraction of the cost. This solution not only meets the current needs of healthcare education but also positions ORamaVR at the forefront of the upcoming wave of XR and AI integration in the medical field. ORamaVR's MAGES-SUITE medical XR AI-based platform is clinically proven to deliver 32% medical skill gain, 80% error reduction in surgical, diagnostics, therapeutics. Adopted by leading institutions including Roche, Inselspital Bern, and University of Geneva Hospitals, ORamaVR serves more than 30 major B2B clients in 10 countries. Having proven product-market-fit, we are currently scaling to meet customer demand. ORamaVR modernizes medical education, is recognized as an industry leader and accelerates the transition to medical XR with spatial intelligence.

ORamaVR is leading the charge in transforming medical education through AI and XR technologies. Our innovative platform, proven track record, and strategic approach position us to make a lasting impact on global healthcare. By addressing the critical challenges in medical training and patient safety, we have the potential to fundamentally improve the way healthcare is delivered, thereby contributing to a healthier future for all.