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## **ANATOSCOPE, the Anatomical Avatar Factory**



**ANATOSCOPE is a breakthrough software solution to build and simulate 3D digital avatars based on medical imaging, with the same biomechanical properties as real people. Avatars can be used to model musculo-skeletal and dental pathologies, to perform virtual tests of treatments before applying them to the real patients, and to design prosthetics.**

**Radiology only provides a static approach to planning on the body, and treatments are then directly applied to the patient. Instead, Anatomical Avatars can predict the consequences of treatment before application.**

**ANATOSCOPE is the only solution in the world allowing advanced personalization and real-time simulation of patients.**

ANATOSCOPE builds personalized anatomical avatars by combining a digital 3D model with personalized medical images (CT, MRI, optical 3D scans, 2D X-ray). ANATOSCOPE builds a personalized digital avatar by morphing a canonical 3D digital avatar to match the medical images of each individual, while respecting anatomical principles. Biomechanical simulations can then be performed using the SOFA-framework, a reference software platform for medical simulation, complemented with proprietary plugins.

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ANATOSCOPE enhances traditional medical images, which are partial, static and not easily understandable by the patient, with complete, animated, visually clear and pleasing, simulation-ready avatars. These are used to simulate and optimize medical treatments before they are proposed and applied to patients. ANATOSCOPE images can also be used to visualize and quantify movements. The creation and use of personalized biomedical avatars in standard medical workflows has never been so easy.

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ANATOSCOPE addresses a huge market. This includes the design of orthodontic alignments, maxillo-facial and plastic surgery of the face, a global market of \$8 billion. The market also includes orthopedic surgery and treatments, such as the design of scoliosis braces and orthosis. This \$400 million market opens perspectives on orthopedic prosthetics (joint replacement) which amount to \$27 billion. ANATOSCOPE is also relevant to sport coaching and rehabilitation of joints.

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