Medical patients 3D avatars AI rendering platform

The platform uses virtual reality and Bayesian approaches to allow ultra-fluid navigation within medical images. Compatible with standard MRI and CT scan images, no data pre-treatment is required. Our unique technology allows physicians to adjust patient representations in real-time and in virtual reality.

Categories:

Medical AI Realtime AR/VR

Client Country: 📍 **France**

Years of Development: 📅 **2022 (present)**

About Project

Client Background

The company creates patient avatars to help surgeons prepare their surgeries. Our technology instantly creates interactive 3D representations of patients based on standard medical images in an immersive virtual reality context for research use only.

Potential use and benefits of our future medical solution

Surgical Decision Tool
Assessment of surgical treatment necessity, robotic, endoscopic vs endonasal surgery

Surgical Planning
FLAP for maxillofacial reconstruction, interventional radiology

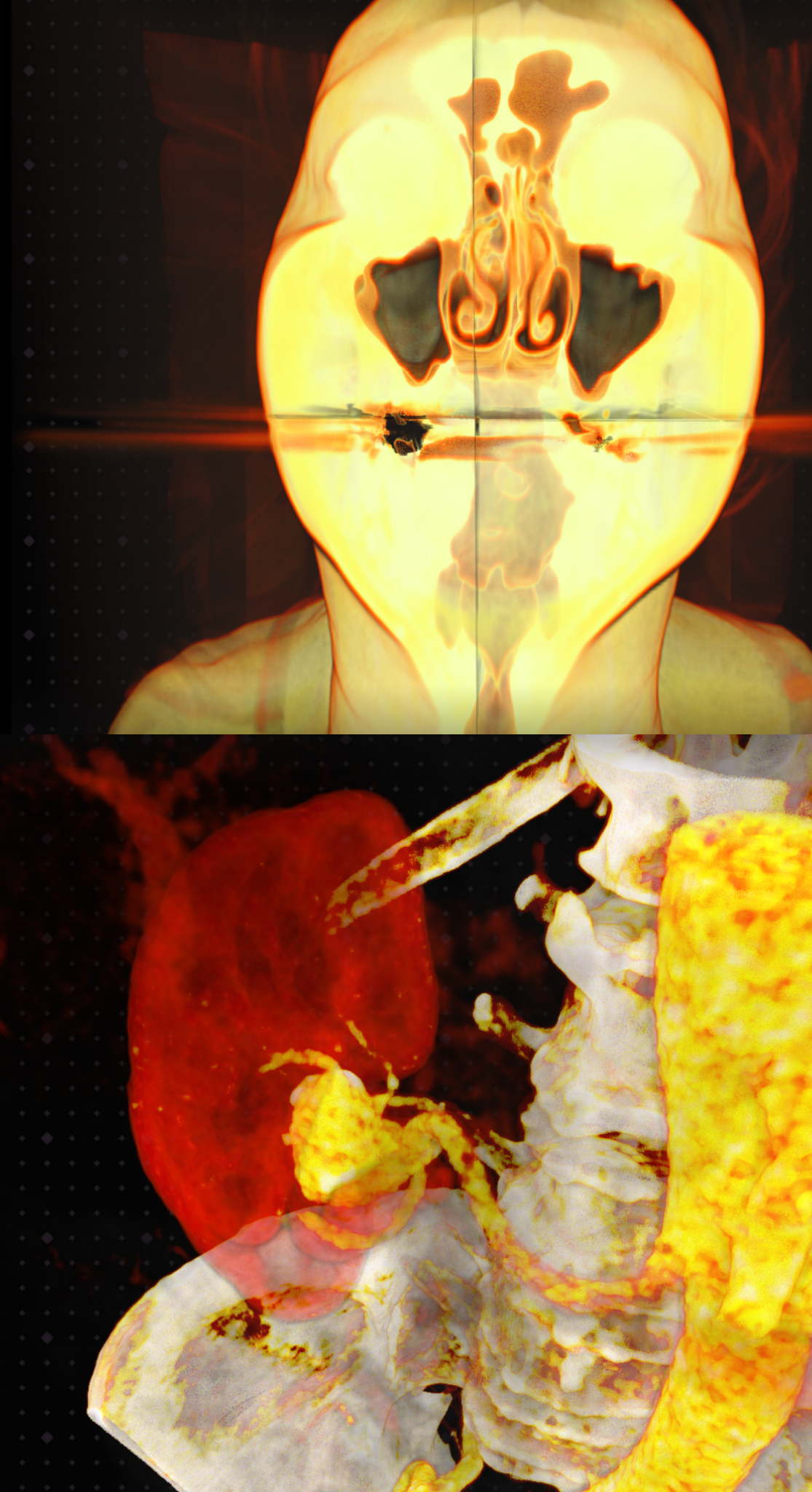### Control in the OR
Implant placement confirmation

Business Goal

Help surgeons better prepare their procedures by interacting with an ultra-fluid, photo-realistic VR representation of their patients' medical images

Business Result

Technology instantly creates interactive 3D representations of patients based on standard medical images in an immersive virtual reality context.
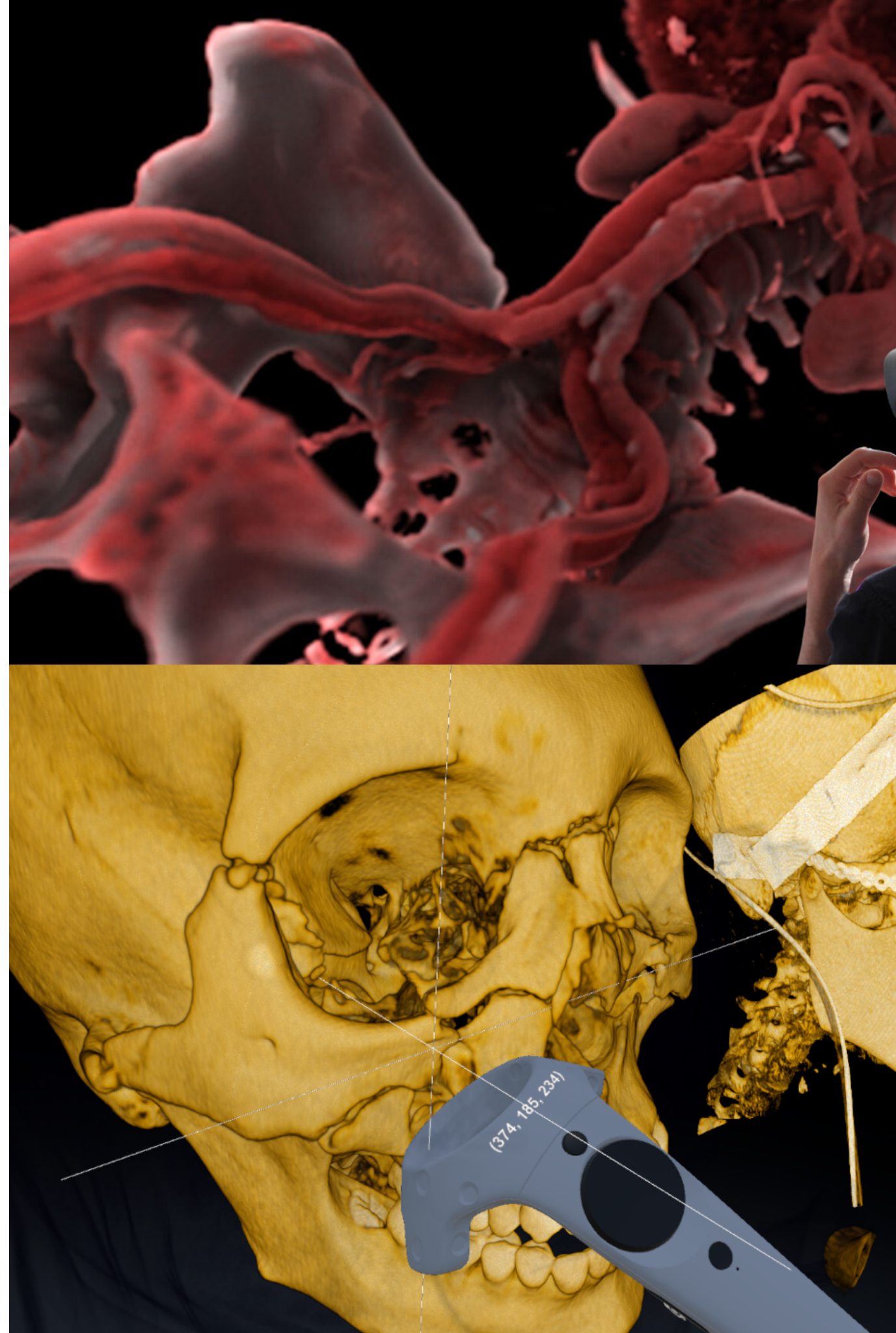
Tech stack

Back-end: C#

Front-end: React

API Integrations: Just http request to C# back

Libraries used: React, Material, .NET

DEVOps: AWS, Azure, and Google Cloud

Project Management: Jira

Features

Any DICOM format:

Supports CT scans and MRIs from all major manufacturers
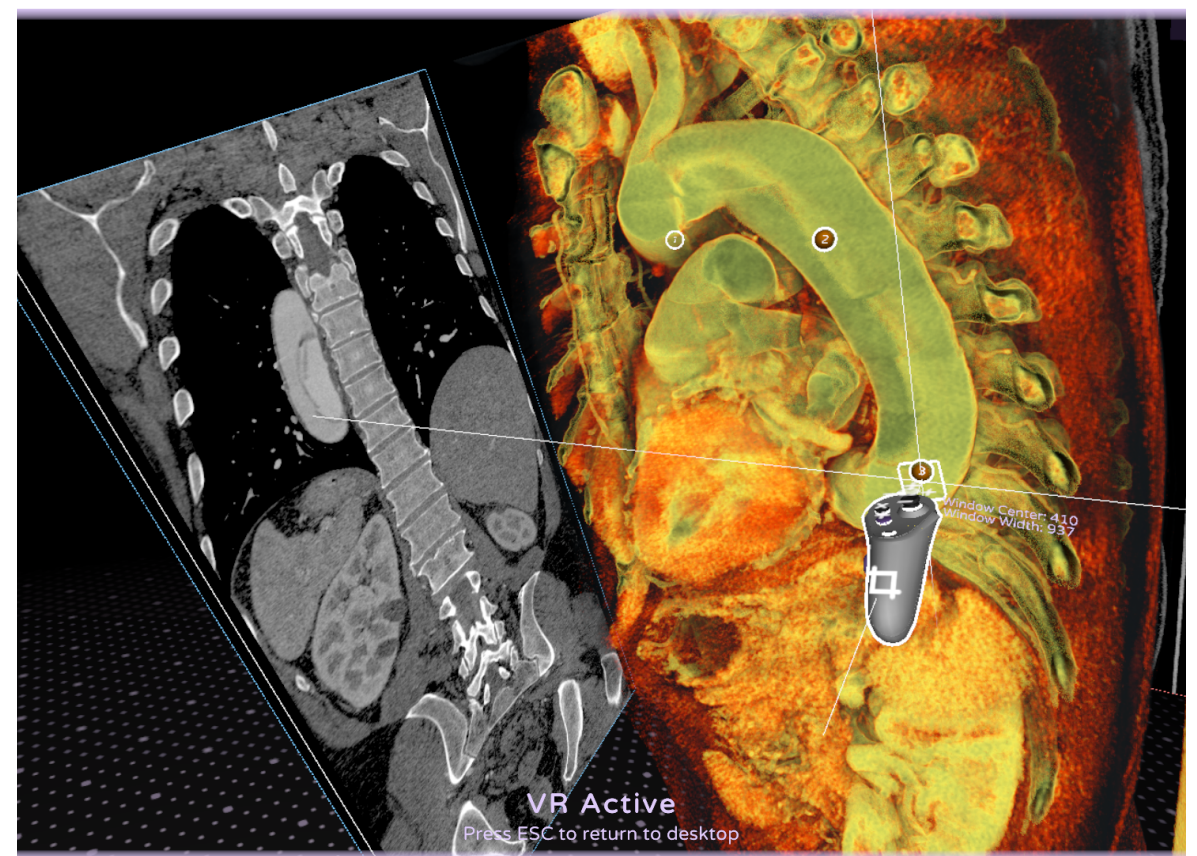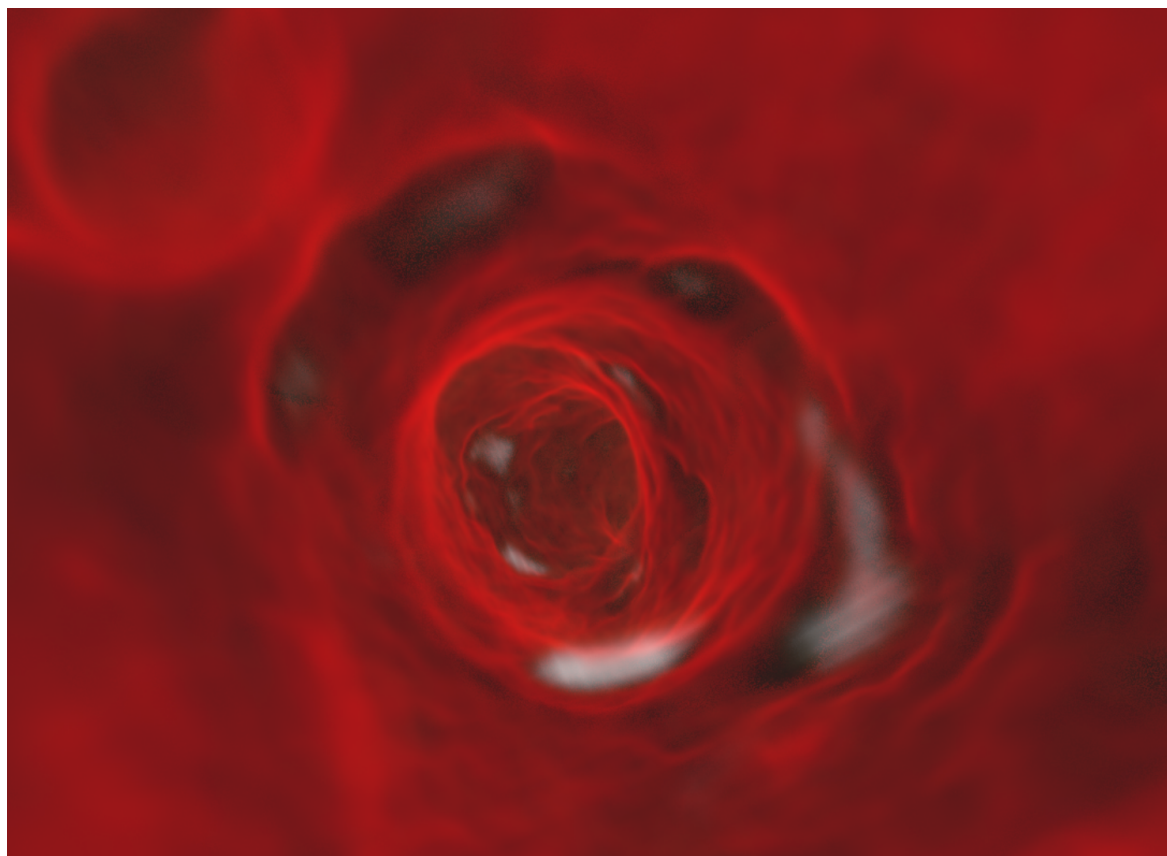
Surgeons decide, not algorithms

100% of the data is available: No pre-treatment; No lossy segmentation

Offline

No internet access required, just a desktop or a laptop

Real time:

Images are reconstructed in 3D/VR in real-time at the point of care

You open the champagne, you found the best developers

Fluvius always stays at the source of success of its clients, since the Client is the core value. Moreover, we heavily strive to make successful & happy the users of our clients providing rather complex interactive business support, than only programming services.

Visit us:

🌐 f 📷 🐦 ♪ in ✕

Address (US)

1401 21st ST STE R, Sacramento, California, 95811, United States of America

Address (UA)

30 Phyzkulturna street, Kharkiv, Ukraine, 61085

fluvius