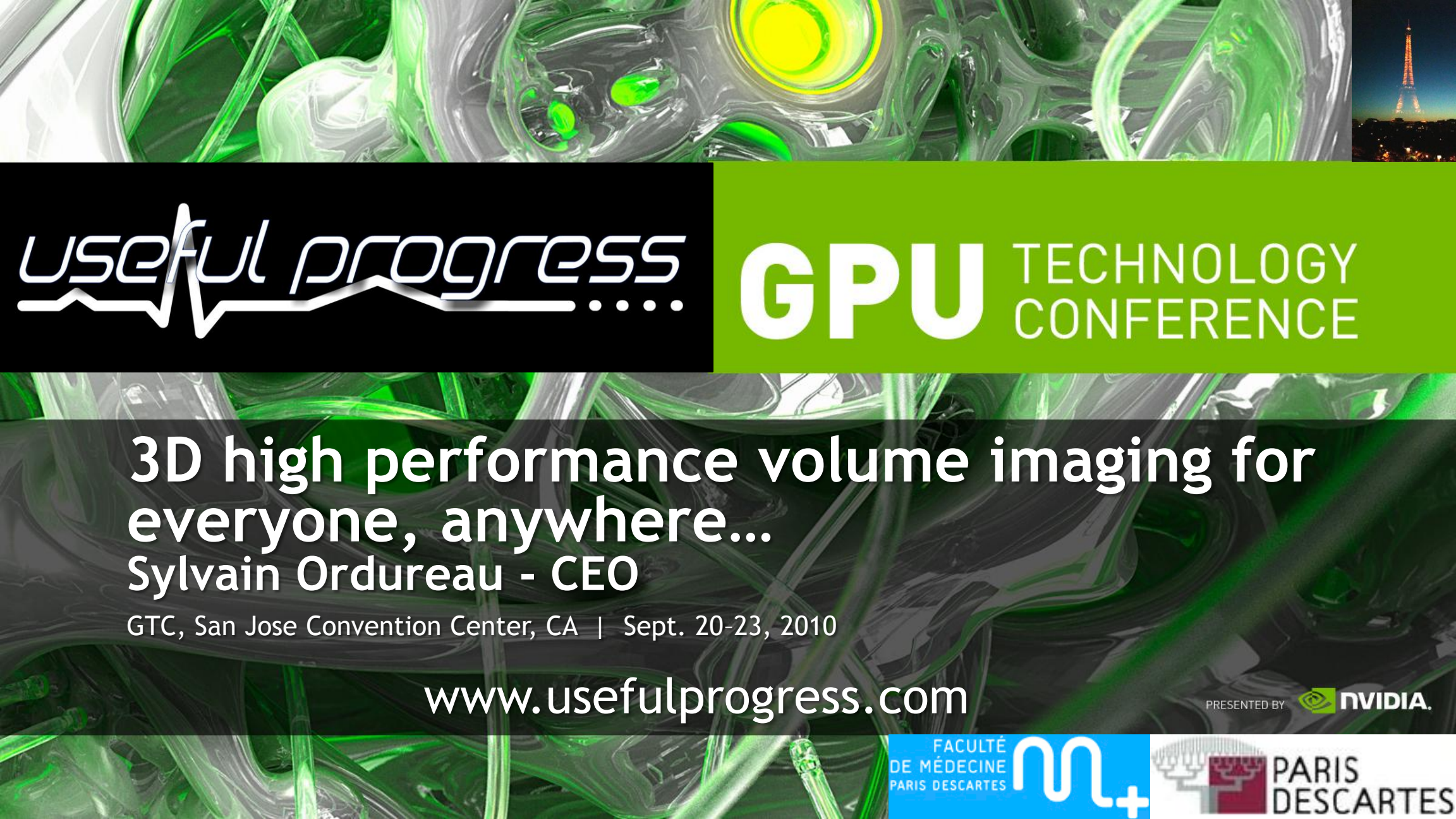




GPU TECHNOLOGY
CONFERENCE

3D high performance volume imaging for everyone, anywhere...

Sylvain Ordureau - CEO

GTC, San Jose Convention Center, CA | Sept. 20-23, 2010

www.usefulprogress.com

PRESENTED BY  **NVIDIA.**



3D Volumetric Scanners :

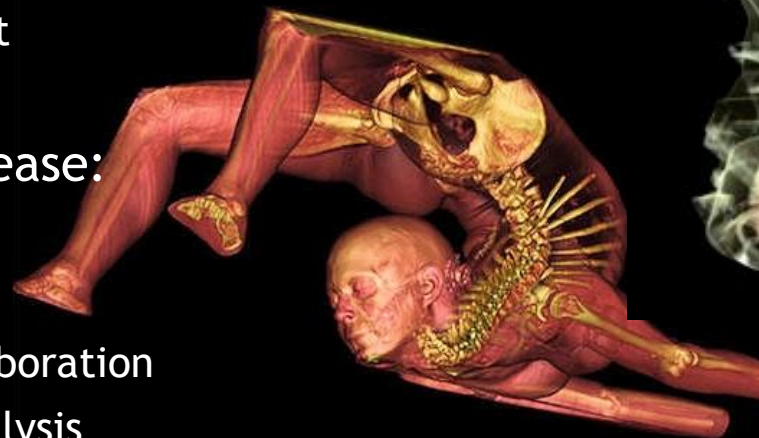
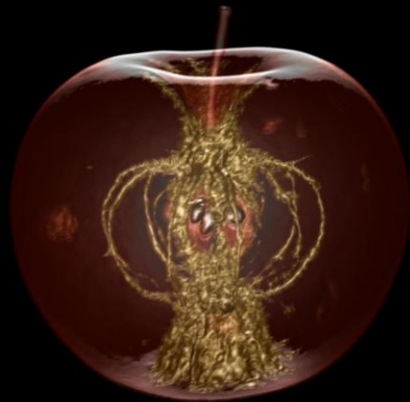
see more, better, faster...

- UsefulProgress fields of investigation (medical, industry, diamonds, archeology, pharmaceutical, fundamental and clinical research)

- Non destructive & non invasive tests
- Replicate without contact
- Virtual dissection

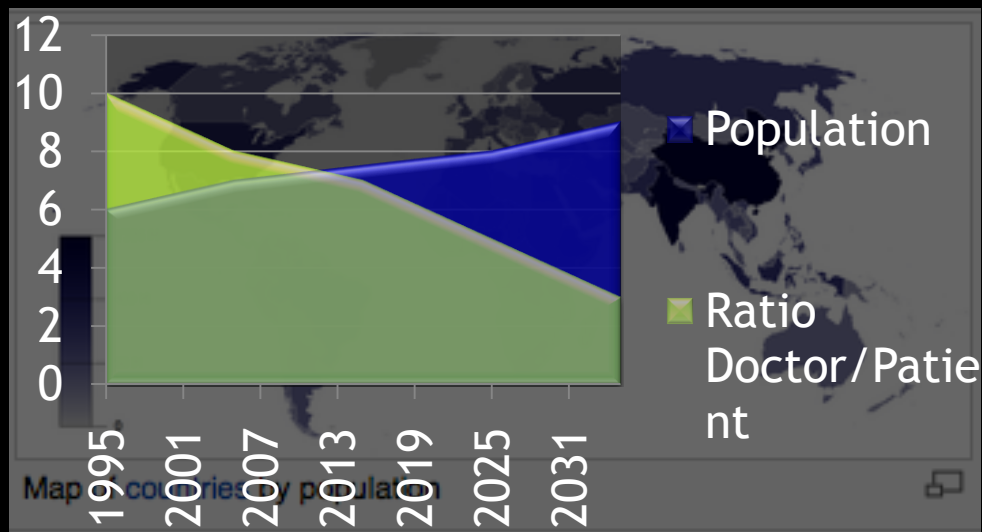
Need to dramatically increase:

- Resolution
- Speed
- Multi-Users Sharing/collaboration
- Image understanding/analysis

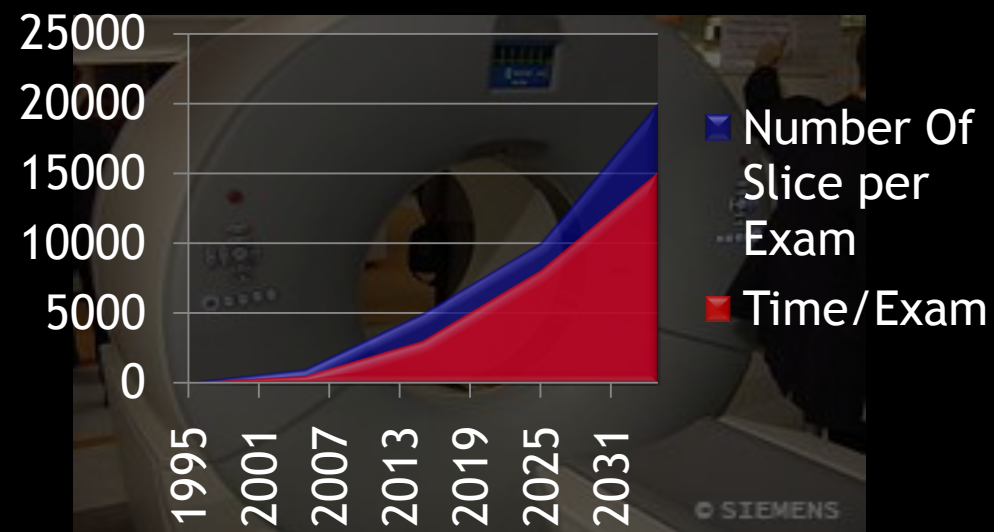


Medical Challenges in Radiology

■ Demography/Medical training



■ CT scanners performance



Prepare for the future

- How can we manage Radiology?
- How can we train more doctors?



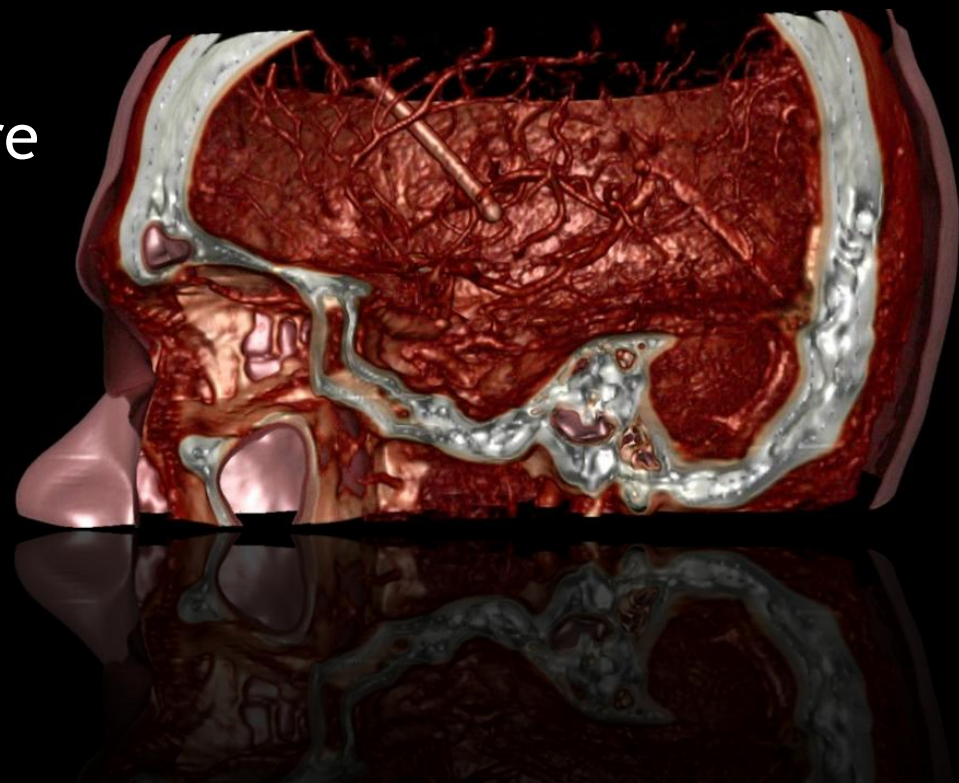
Demonstration of aortic aneurism

- Diagnostic
- Communication



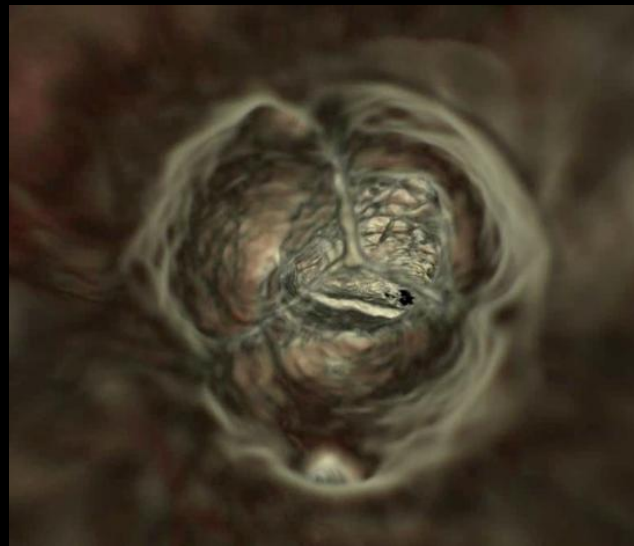
Demonstration of ventricular derivation

- Simulate a surgery procedure
- Control after surgery



Demonstration of coronary disease

- Prevent
- Obligation to due care

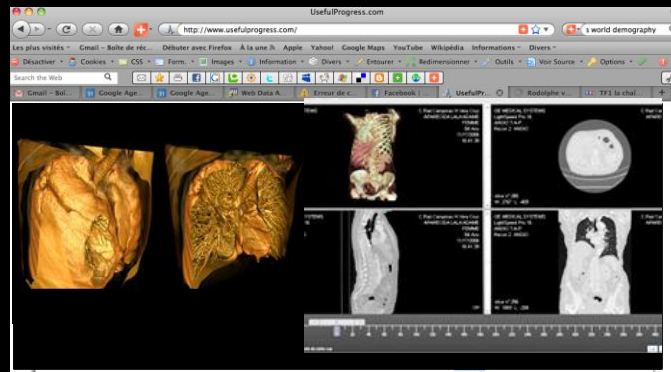


GPU General Challenges

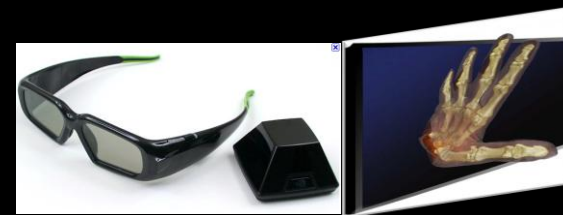
- Manage huge tomography data on **server side**
- Deliver the best experience on **user side**



- Multi Fermi GPUs (M2050)
- Generating 50 FPS, full raycasting



- Quick, easy and ubiquitous web access
 - Real time 3D HD visualization with the GPU
- Video decoding
 - 3D Vision, Tablets, Alioscopy



Powerful Applications for Useful Progress

— Medical benefits

- Best diagnostic
- Best management of doctor's time
- Best communication between specialist and patient

— GPU **revolution**

- Secure and economic framework for medical image analysis

