



Dr. Ing. Frans de Beer dentist MFP

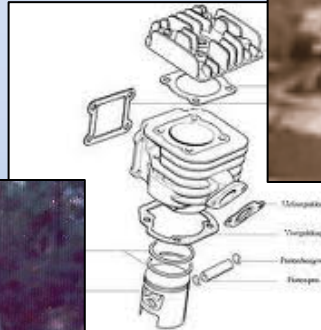
64 years old

I have a technical and a dental education
I work in a general dentistry practice in Maastricht
and
at the Dept. Cranio-Maxillofacial surgery at



In both my work environments I work with
computer controlled 3D manufacturing

In the 60th this was my way to spend a lot of time: making



It taught me to live my dreams

1981

revolution



IBM PC 5150

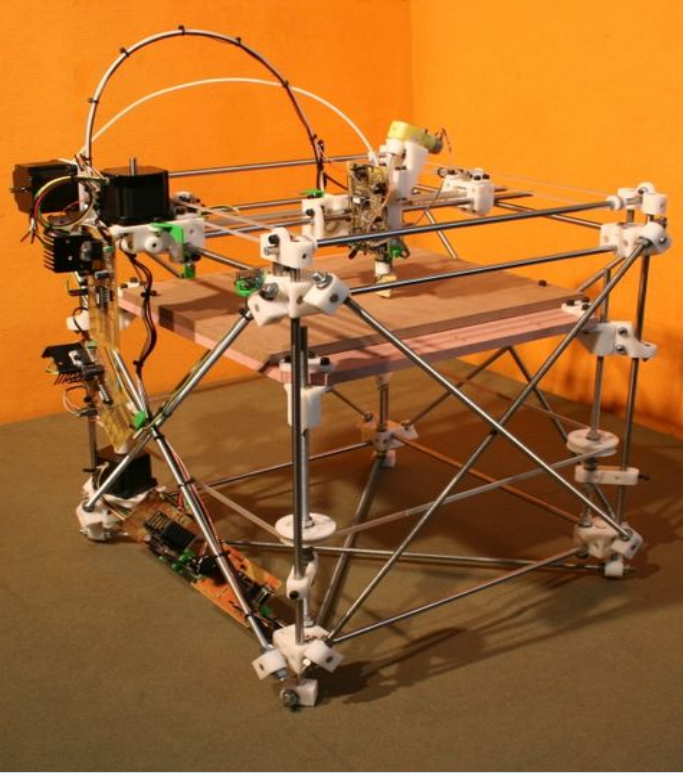
2 floppy drives
RAM 16 to 64 Kb
ROM 64 Kb
40-80 characters X 40 lines



Digital Equipment Corporation

founded in 1957 near Boston
by 2 ex-MIT students.

2005



In **2005** Adrian Bowyer started the RepRap project at the Bath University

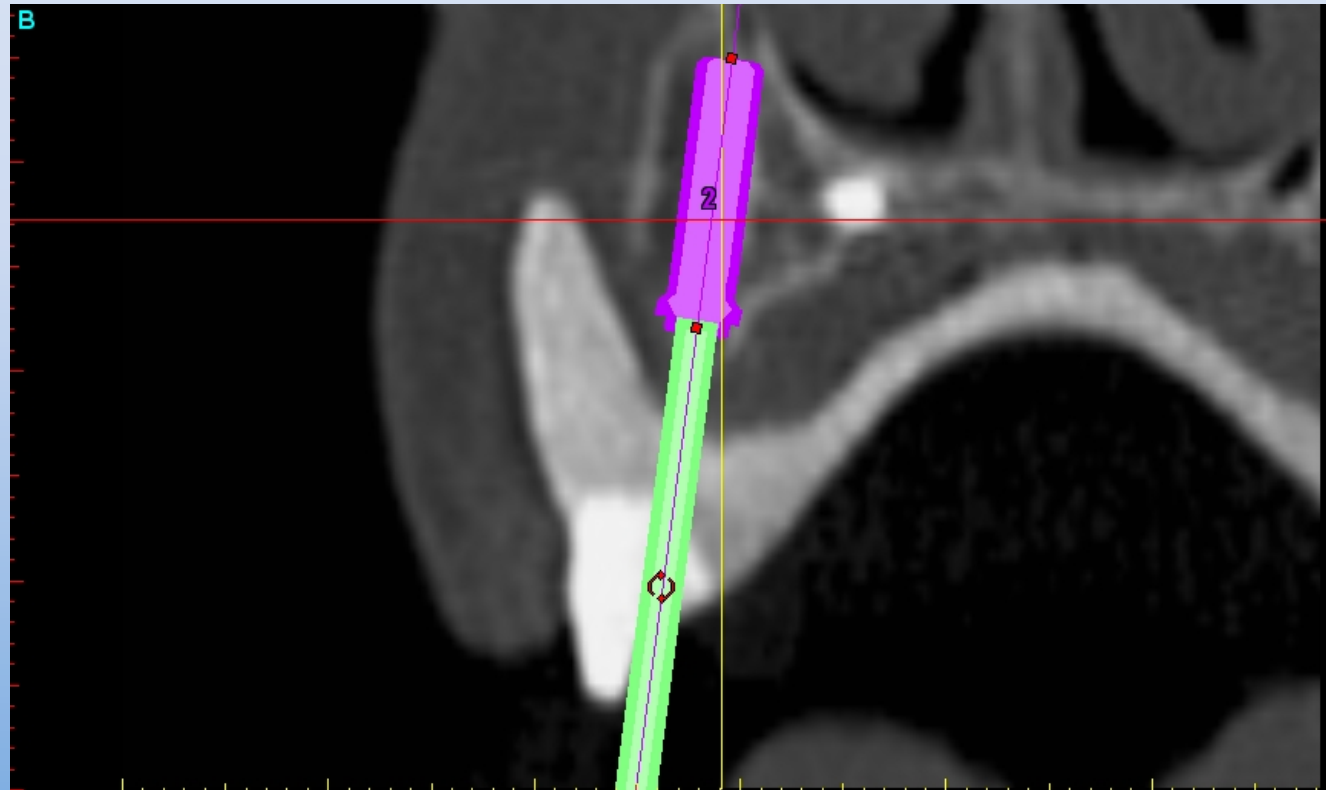


5- axis milling machine

Dental Implantology planning

1998

Virtual Planning

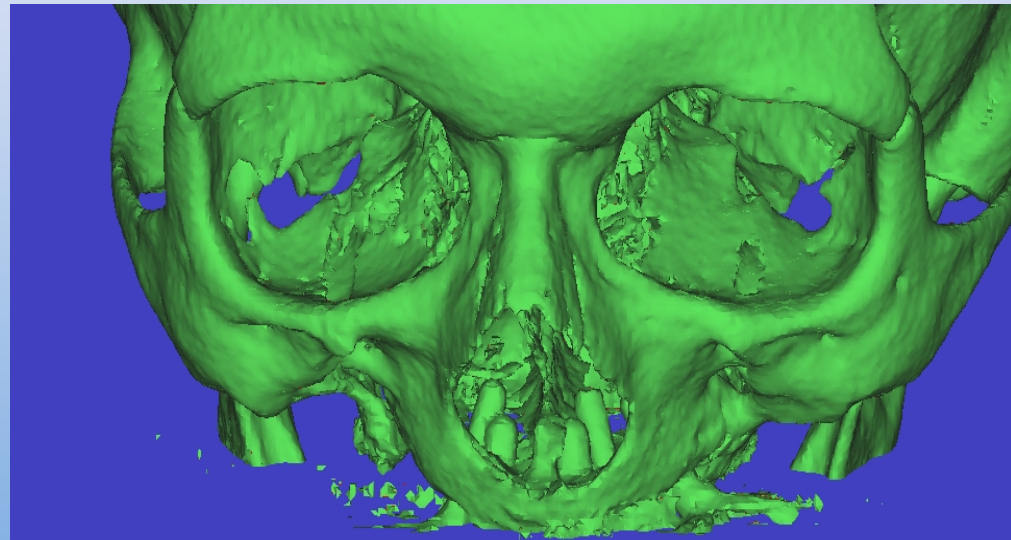


Materialise NV

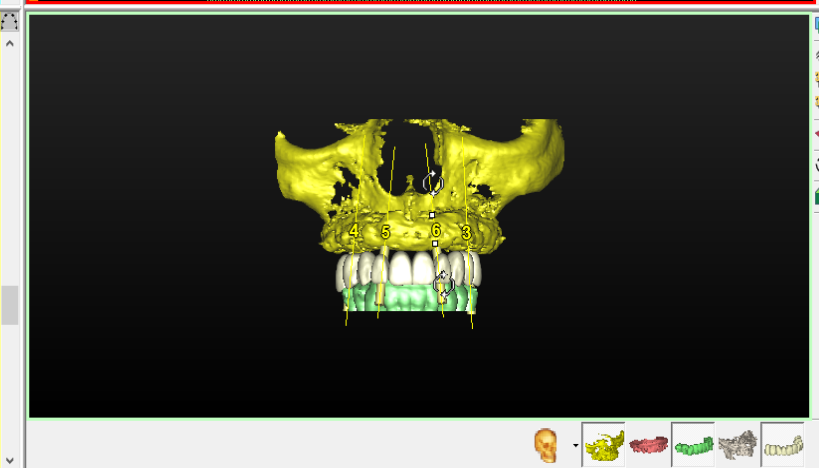
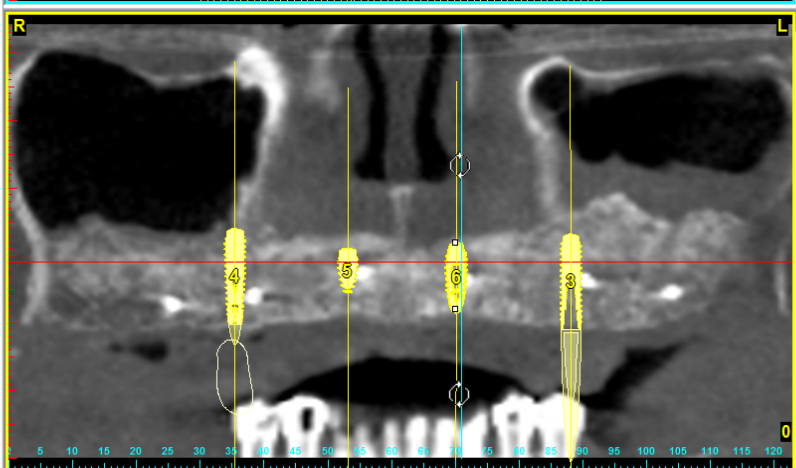
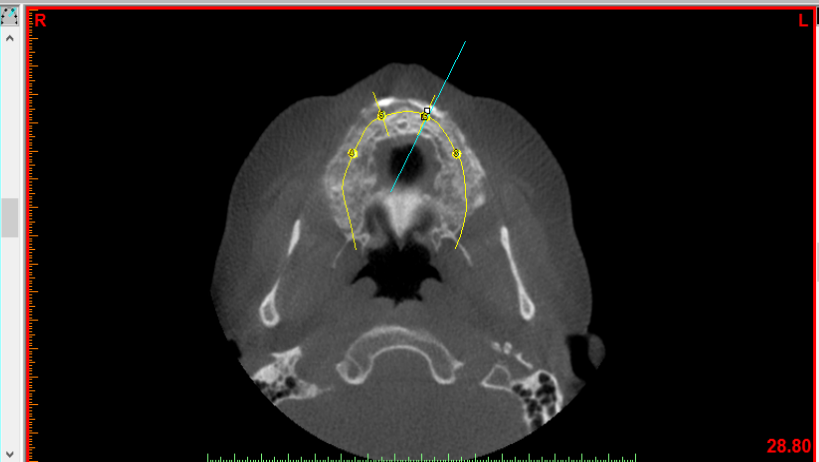


If you fail to plan,

You fail to plan

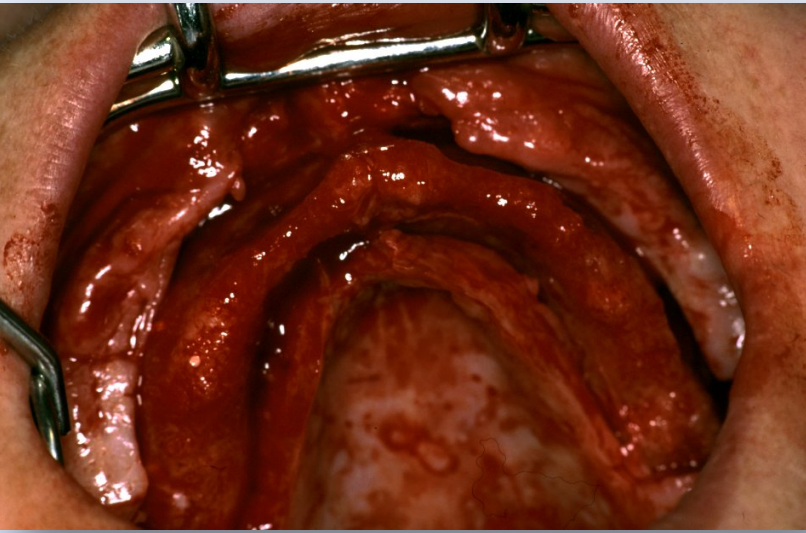


- 1. SimPlant Start
- 2. Segment
- 3. Prepare for planning
- 4. Plan implants
- 5. Order SurgiGuide
- 6. Communication

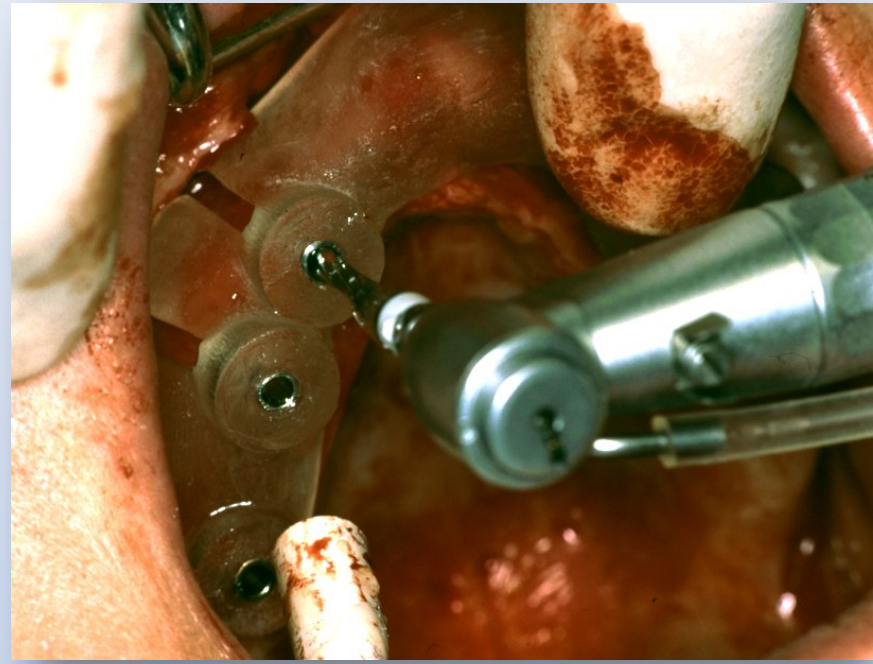


Tools
Measure
Add text annotations

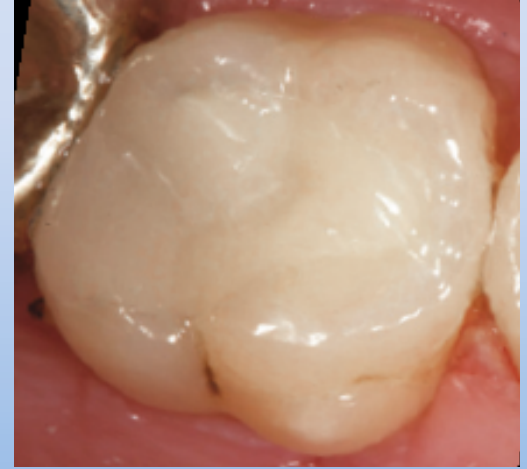
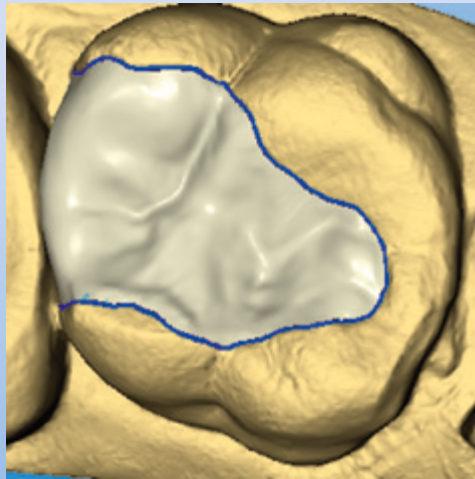




Implant placement with drill guide

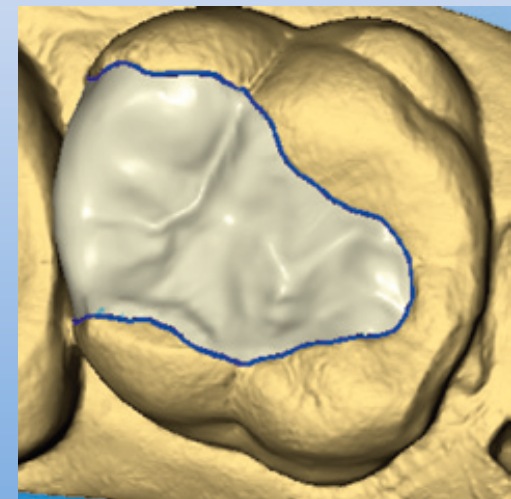


CEREC 3D crowns, fillings





CEREC 3D



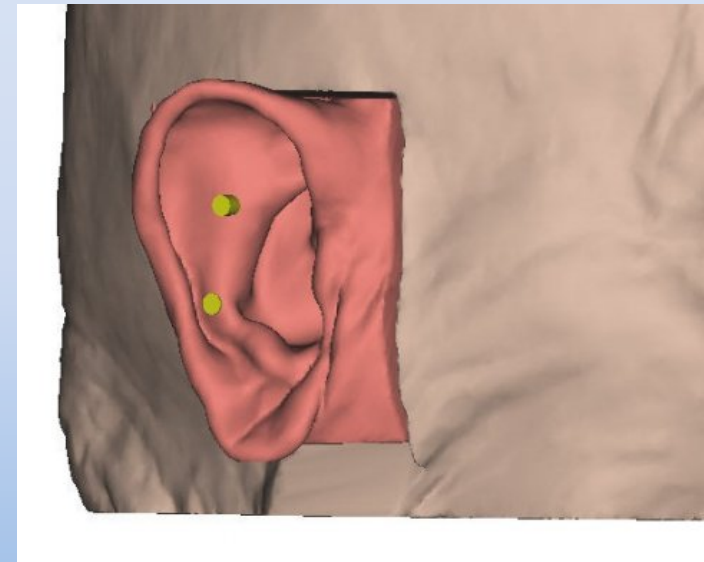
Dept. Cranio-Maxillofacial surgery

future assignment: 3D printing

- Virtual implant **planning**
- Virtual cutting guide **planning**
- Virtual skull cover plate **planning**
- Ect.....

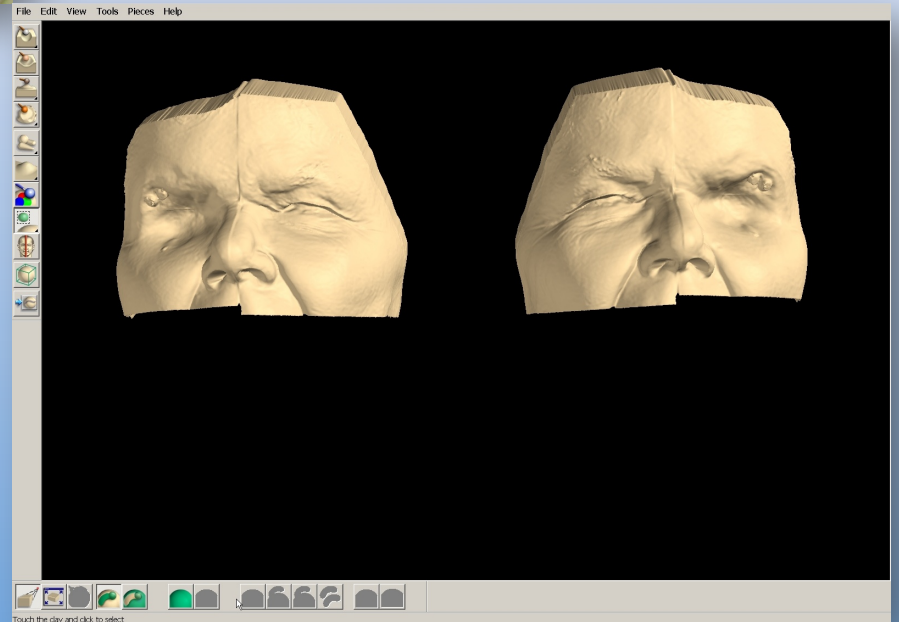
- 3D **printing** of bone parts and surgical guides

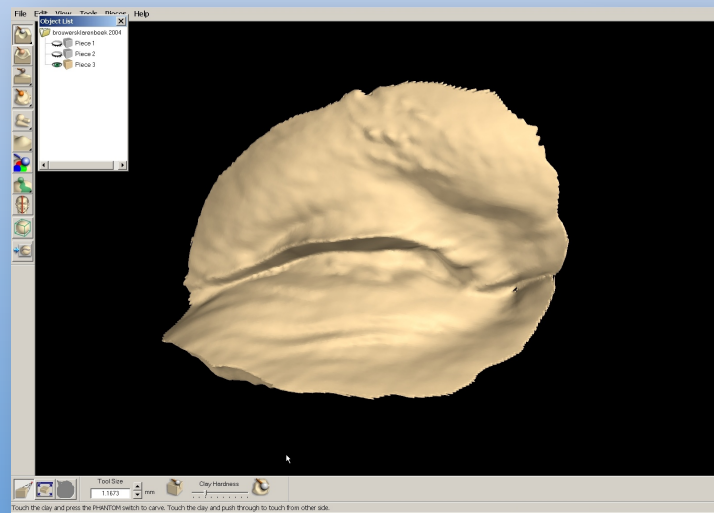
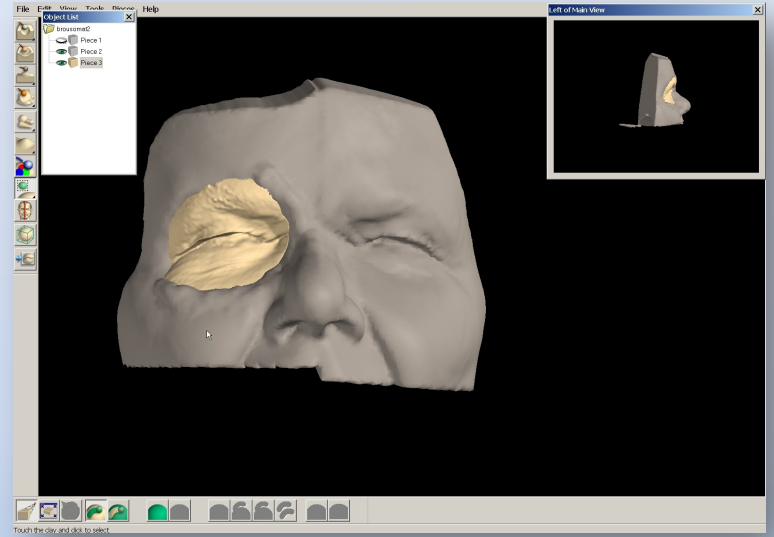
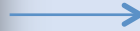
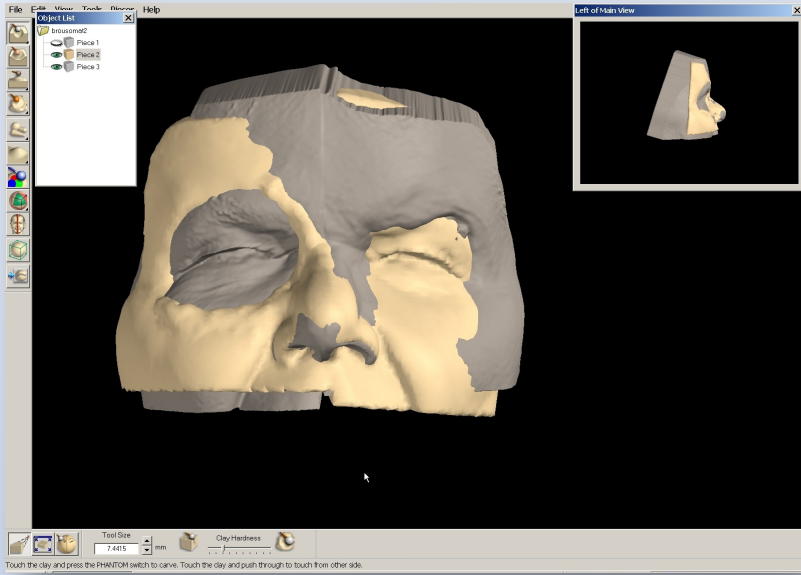
- commercial software
- freeware

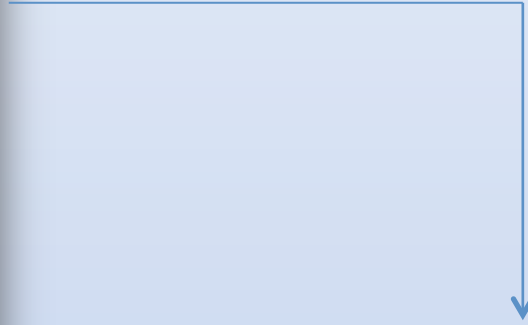


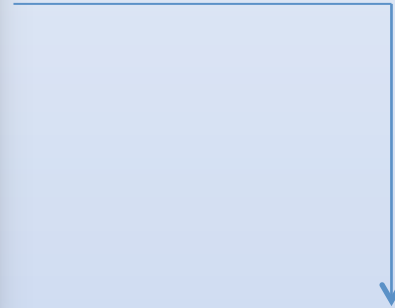
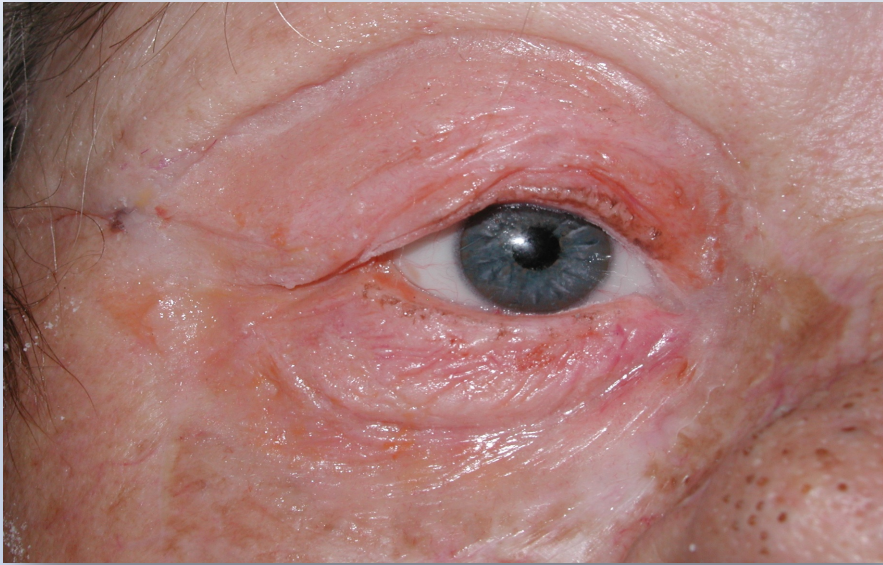


Eye Casus















ABS printed part fixed on
PMMA Prosthesis



Eats flies.
Dates a pig.
Hollywood
star.

LIVE YOUR DREAMS

Pass It On.

THE FOUNDATION FOR A BETTER LIFE

www.forbetterlife.org