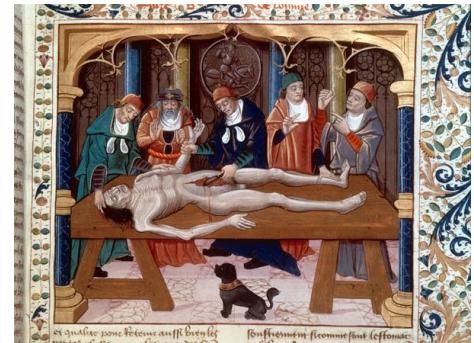




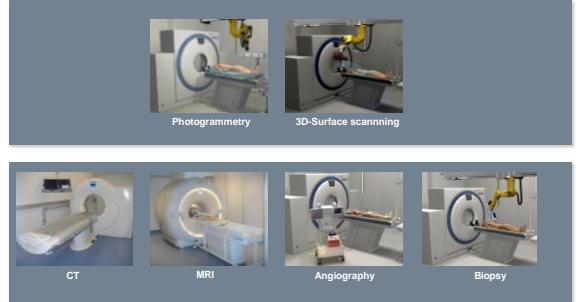
www.virtopsy.com
michael.thali@irm.uzh.ch



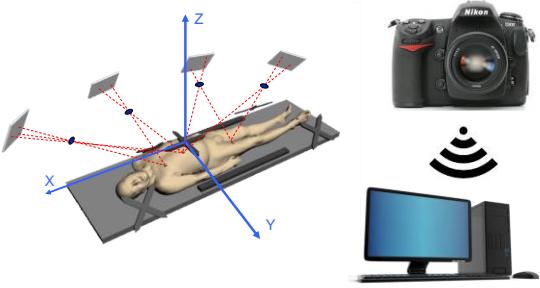
Bridging Forensic & Radiology



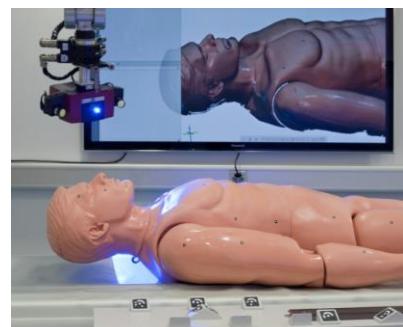
„We have a dream....“

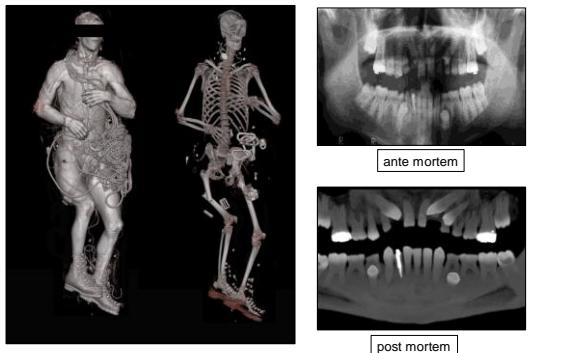
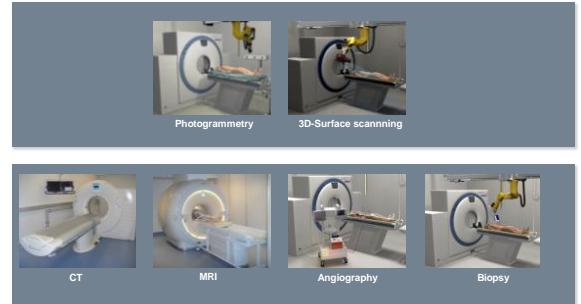
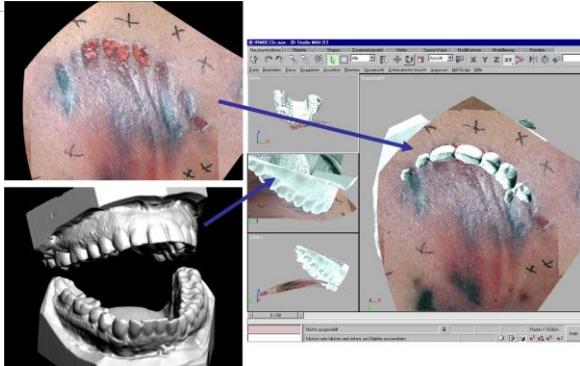


Process: digital photogrammetry

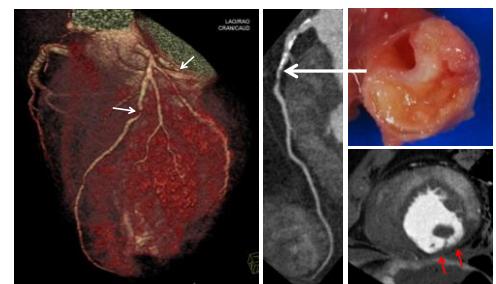


3D-Surface Scanner

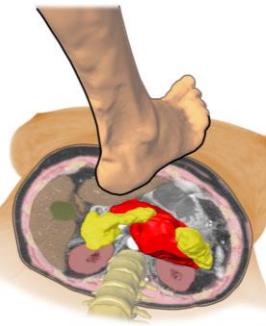
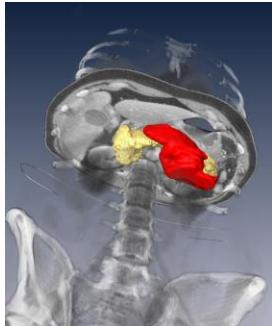




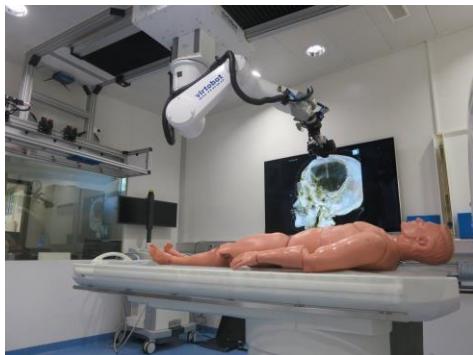
postmortem Angio CT



Visualization



virtopsy

www.virtopsy.com

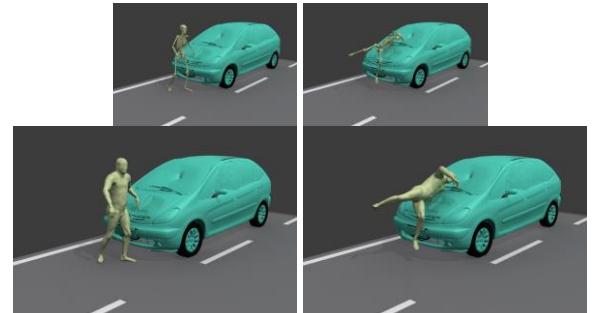
Laser scanner at the Swiss Police



Zoller + Fröhlich Imager 5006
Multiple frequency phase-shift method
Faster, lower range



Leica Scanstation 2
Time-of-Flight method
Slower, larger range



Rejection → Religion / Family



Advantages / Pros

- Speed up the process of decision making
- Observer-independent and objective data archiving
- Tele-radio-pathology / Tele-forensic ('second opinion')
- **Non-destructive, minimal-invasive and actual-size documentation in 3D**
 - can be used in cultures and situations where autopsy is not tolerated by religion or rejected by family members
 - chemo-bio-terrorism



Advantages / Pros



- Every body is scanned before autopsy
- Most of questions; often already answered by Virtopsy
- Based on Virtopsy already 10% become "cancelled autopsy"
- Understandability of the findings increasing because of **3D and better visualization!**

1. CT (state of the art in modern forensics today!)

2. Upgrade CT: Biopsy Angiography

....60-80% forensic relevant cause of death



3. Photogrammetric based 3D surface scanning

4. MRI



virtopsy

HOME ABOUT VIRTOPSY PUBLICATIONS MOVES COURSES TEAM



www.virtopsy.com

www.irm.uzh.ch

Youtube: Virtopsy

www.virtopsy.com



Unsere Vision: Das Unmögliche versuchen, indem wir mit bildgebenden Verfahren in einem Zug Alkohol, Drogen und Medikamente nachweisen – und auch den Gen-Faden darstellen.

Michael Thali