

Integrated Surgical Systems Company History Founded 1990 Robodoc system milestones - 1st Canine THR - 1990 - 1st Human THR - 1992

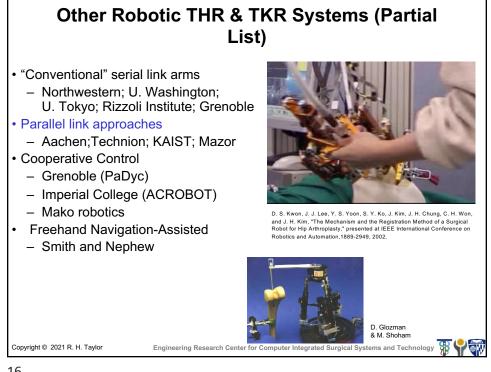
- 1st European THR 1994
- European CEmark 1996
- Pinless THR 1998
- TKR 2000
- Other Company milestones
 - IPO 1997
 - Neuromate Acquisition 1997
 - Suspended operations 2005
 - Resumed operations 2006
 - Assets sold to Novatrix 7/2007
 - FDA Approval for hip 2008
 - Robodoc now owned by Curexo

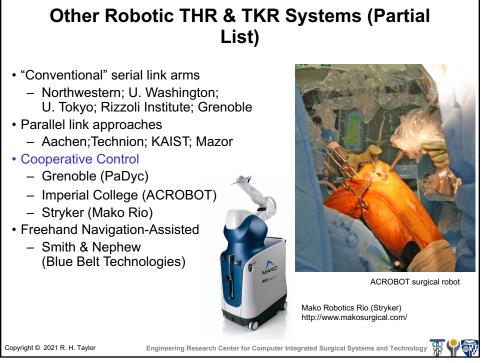


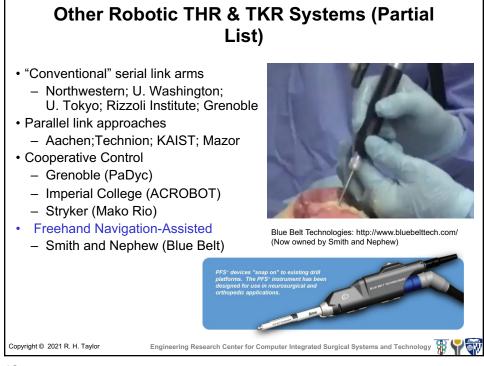
Other Robotic THR & TKR Systems (Partial List) "Conventional" serial link arms Northwestern; U. Washington;

- U. Tokyo; Rizzoli Institute; Grenoble • Parallel link approaches
- - Aachen; Technion; KAIST; Mazor
- Cooperative Control
 - Grenoble (PaDyc)
 - Imperial College (ACROBOT)
 - Stryker (Mako Rio)
- Freehand Navigation-Assisted
 - Mitsuishi et al. (U. Tokyo)

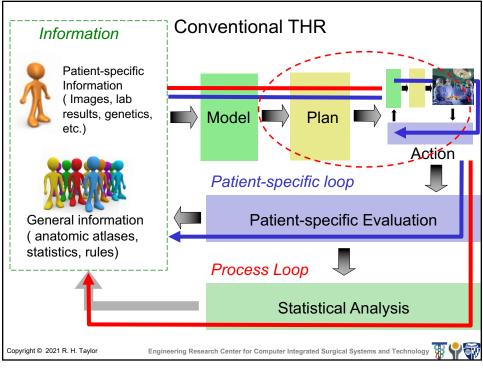


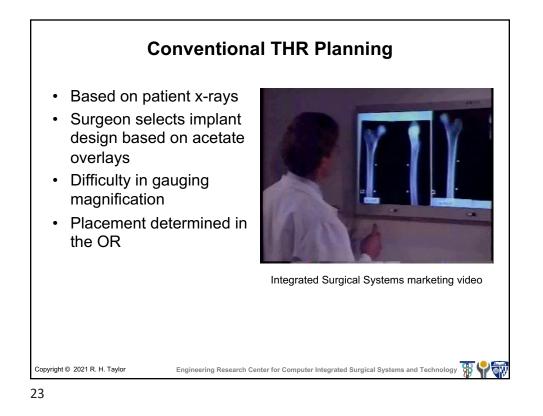


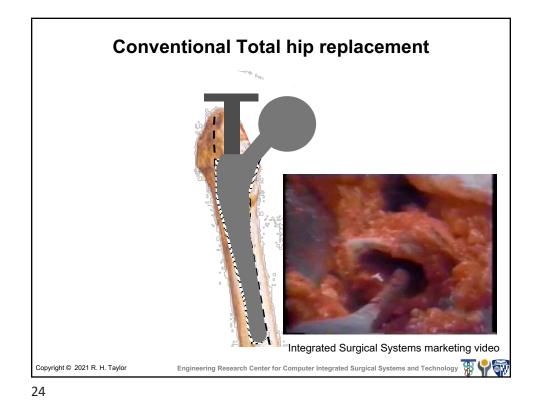


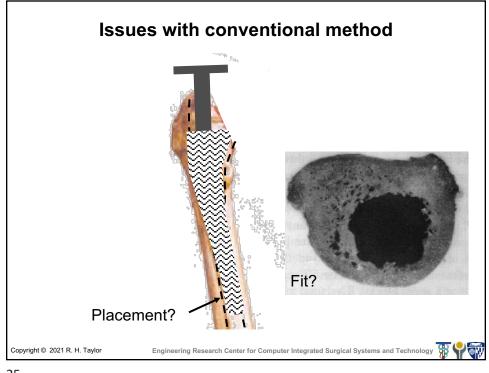




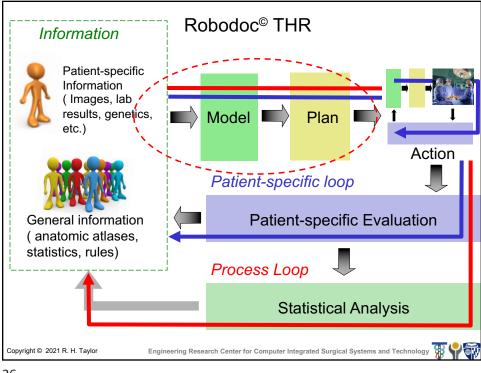


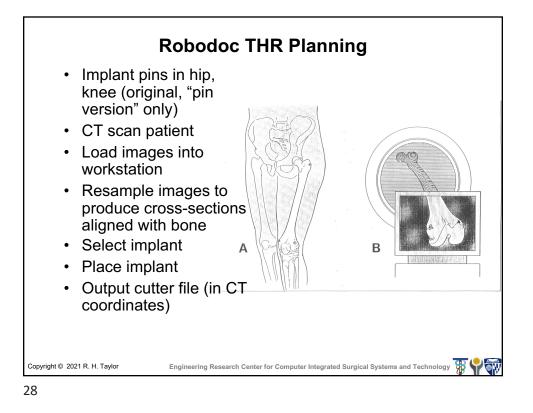


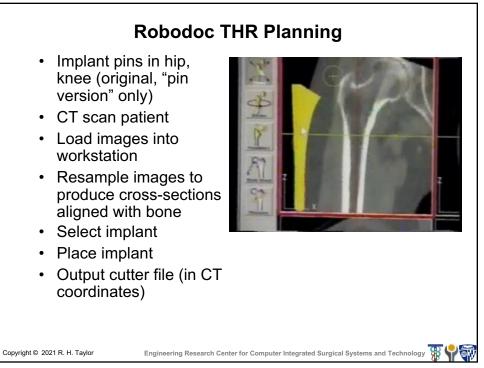


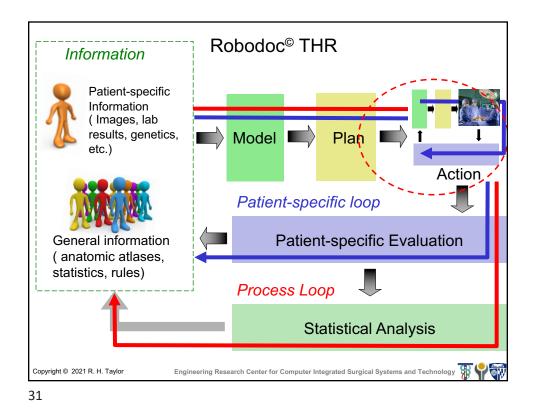


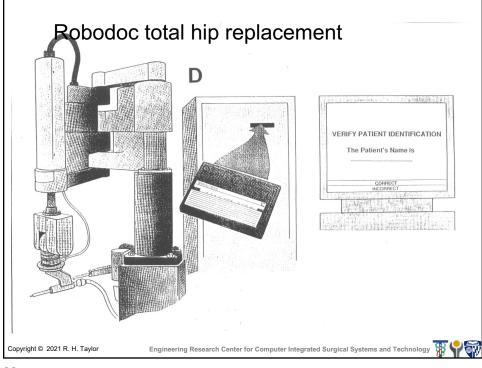


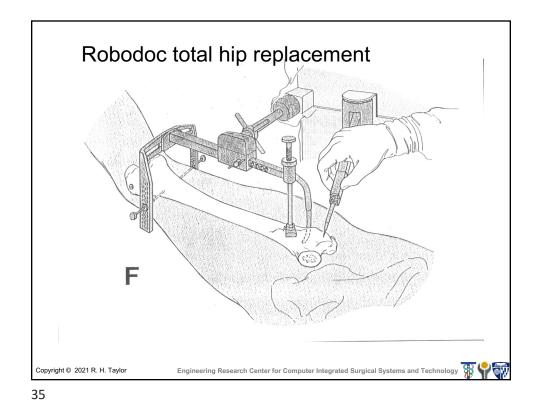








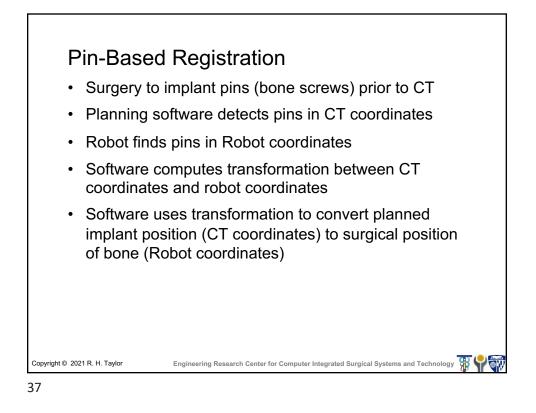


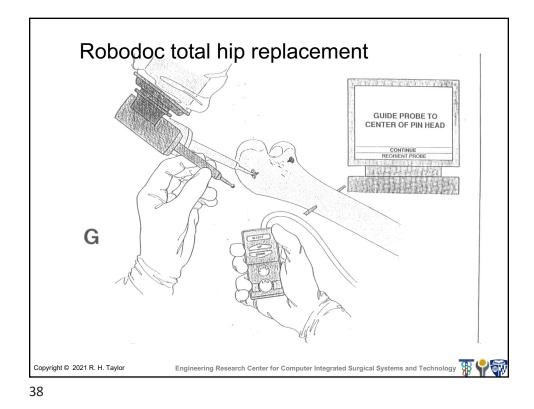


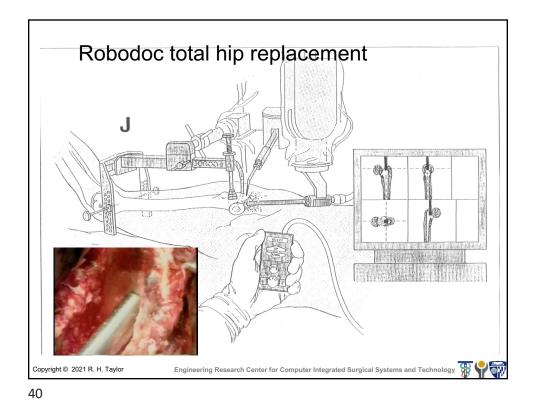
Key Step: Registration
Establishing a transformation (conversion) from one coordinate system to another

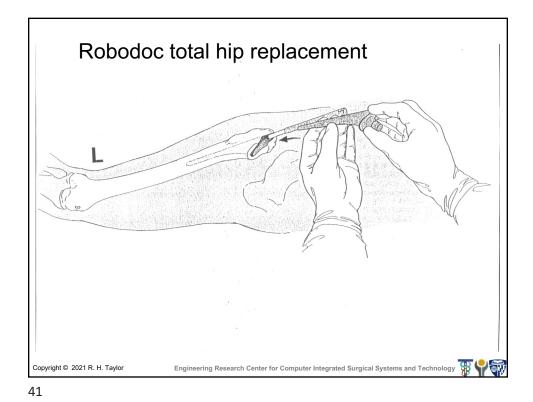
 CT coordinates (preoperative plan)
 Robot coordinates (surgery)

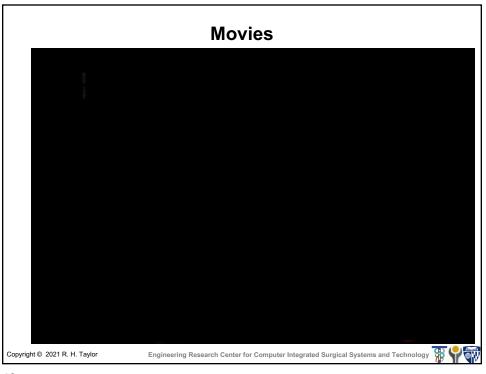
Allows the robot to cut the implant in the position planned by the surgeon.



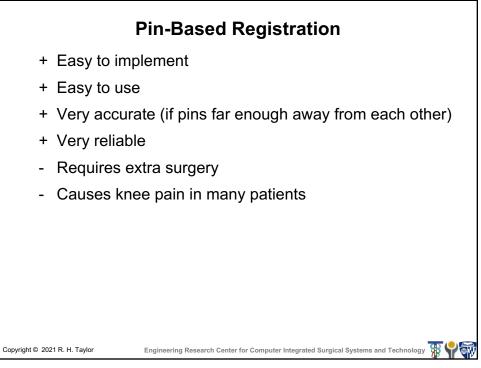


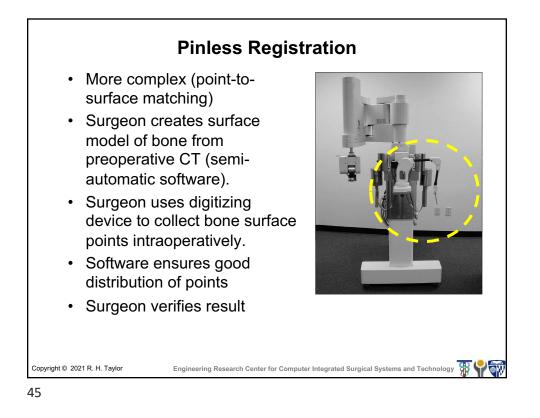


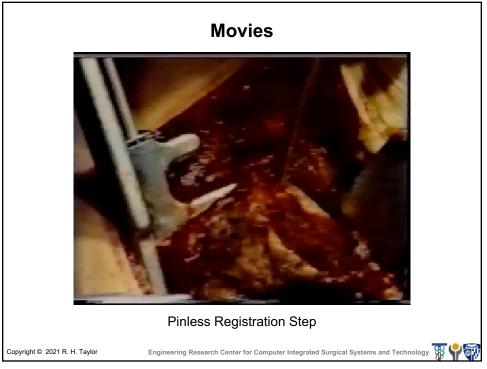


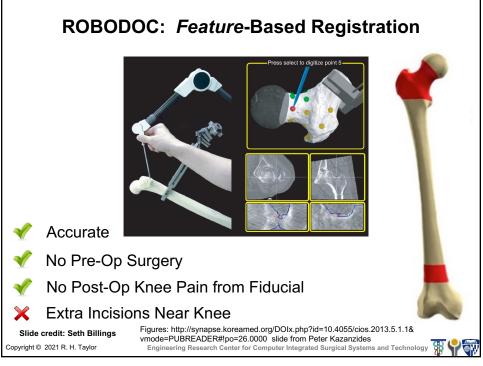


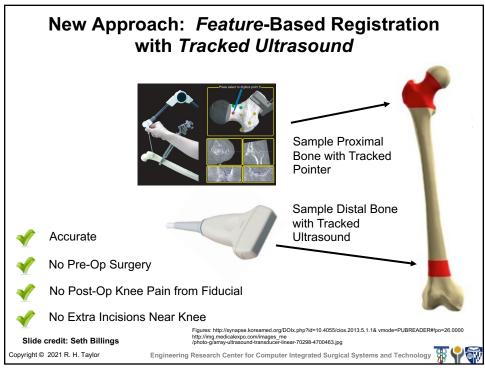


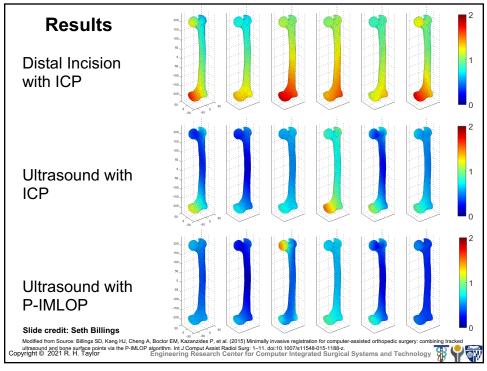


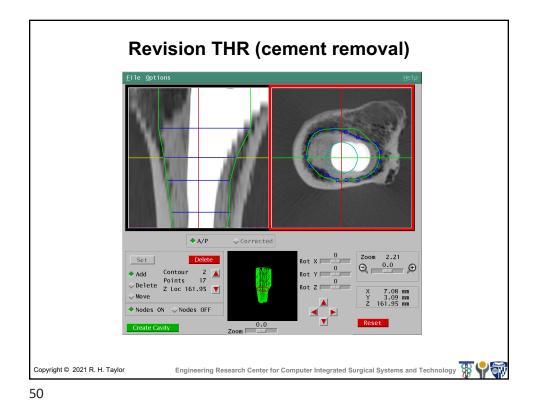


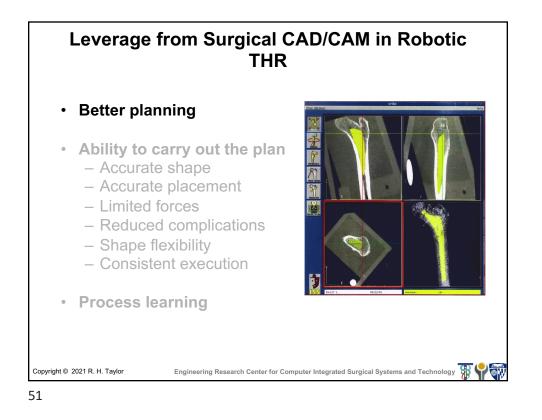


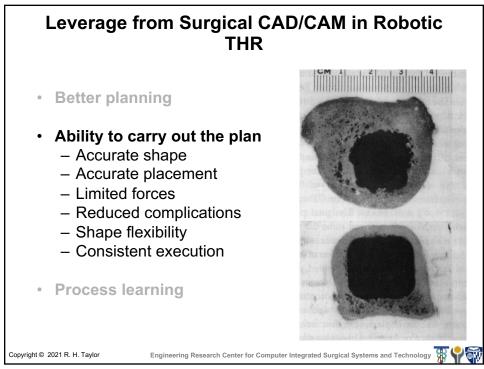


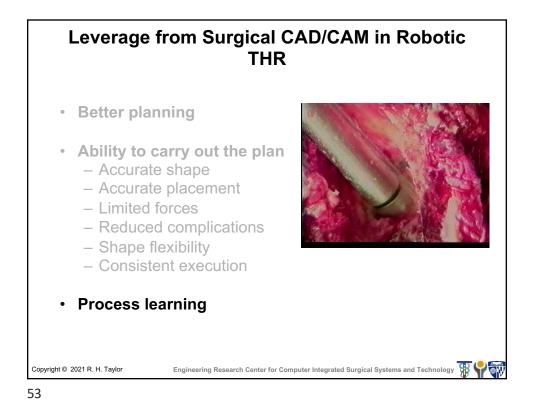




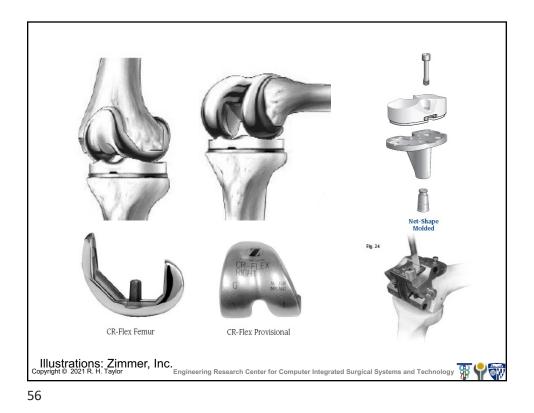


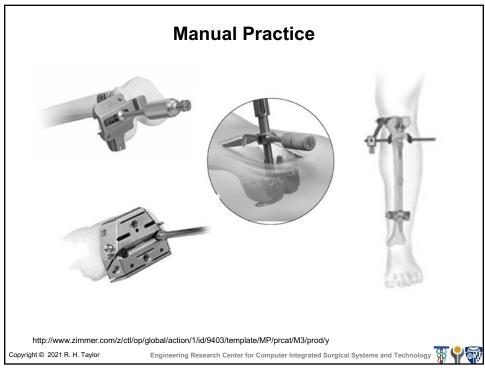


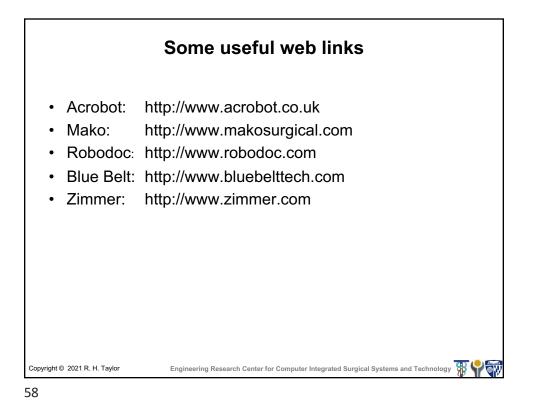


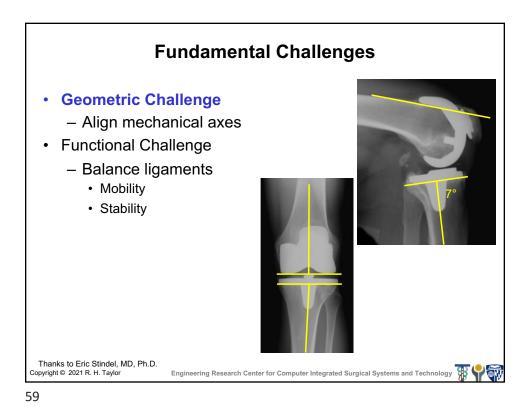


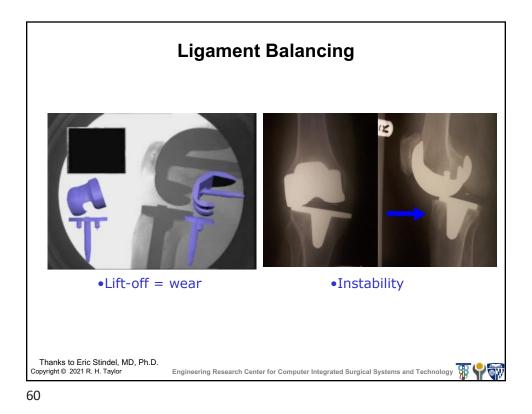


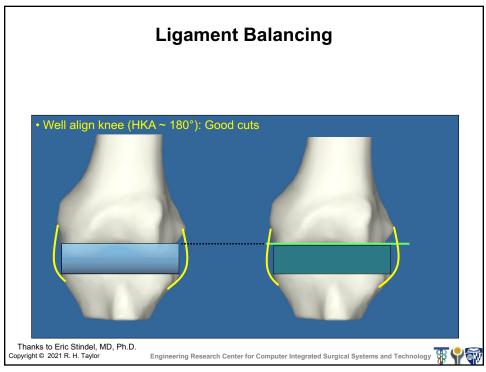


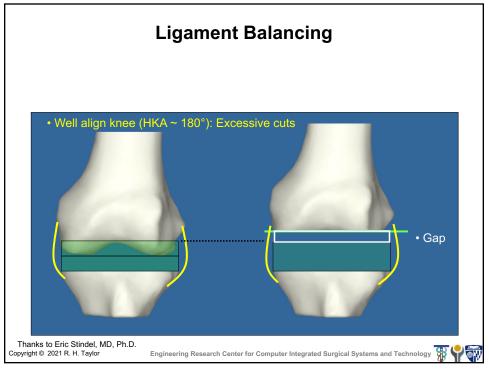




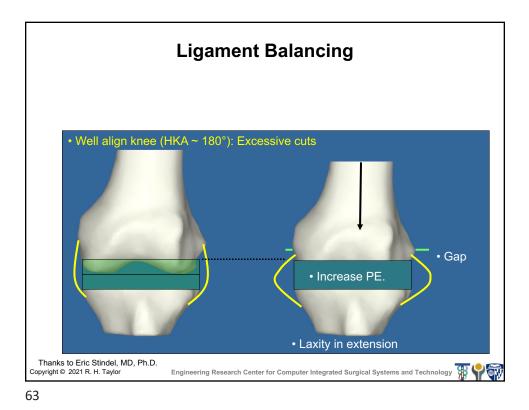


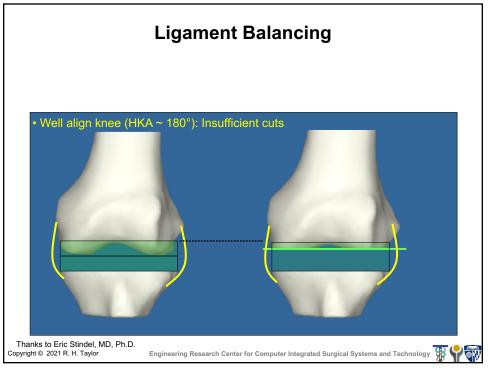




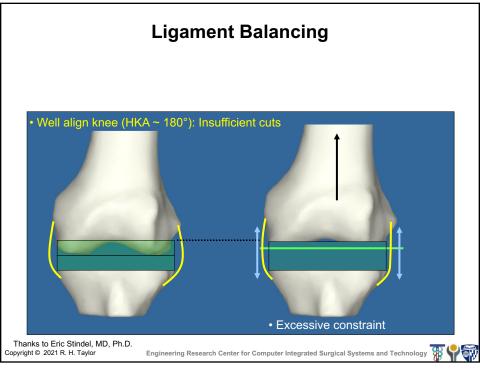


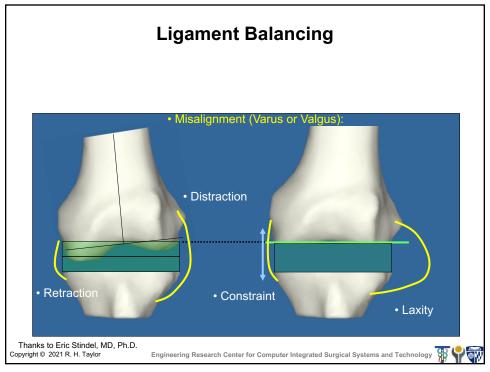


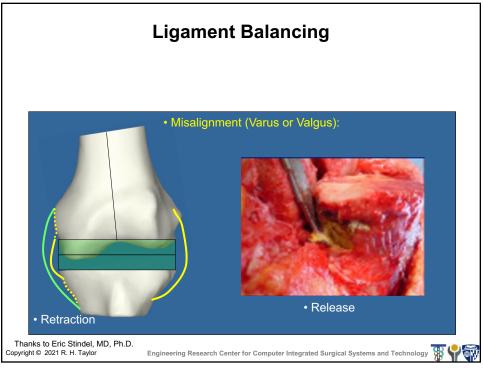


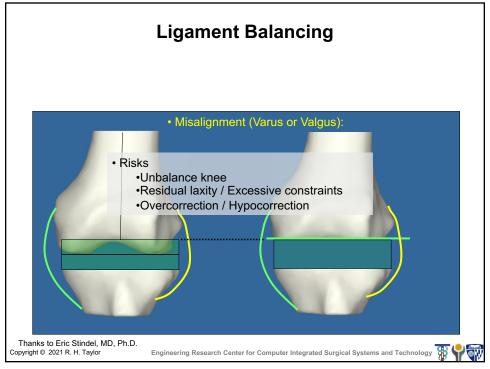






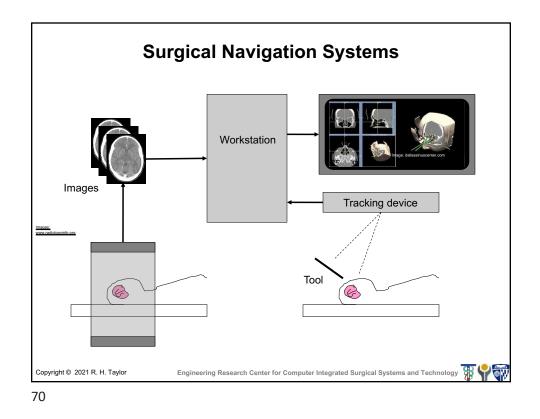


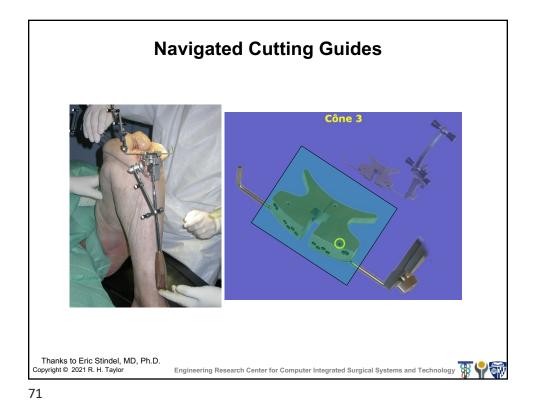


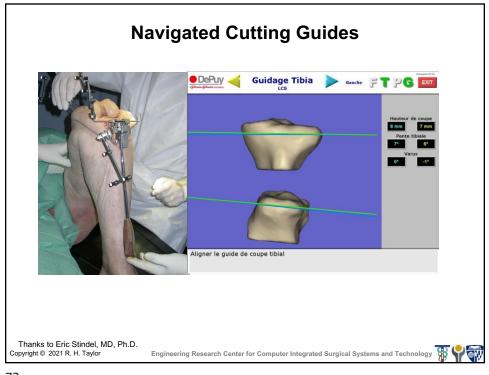




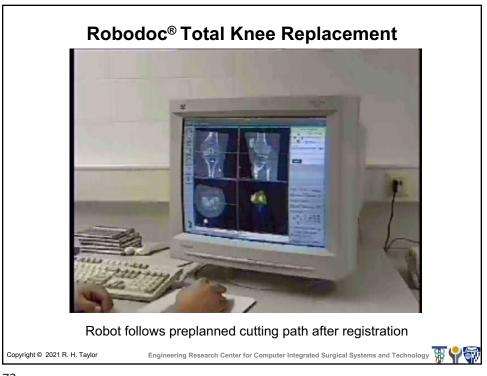






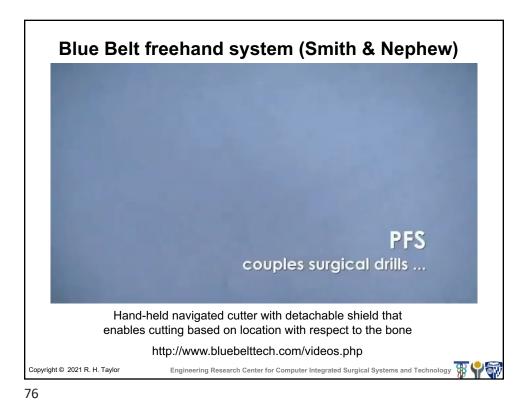


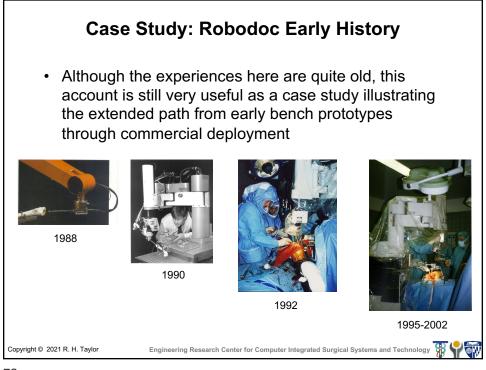


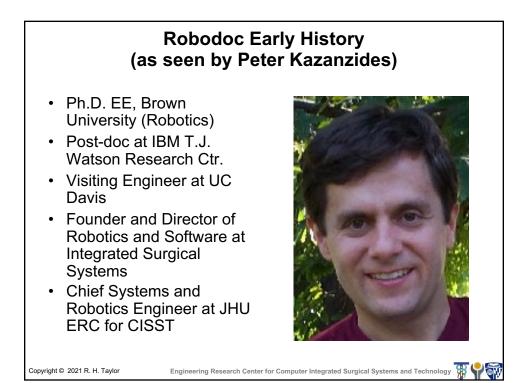


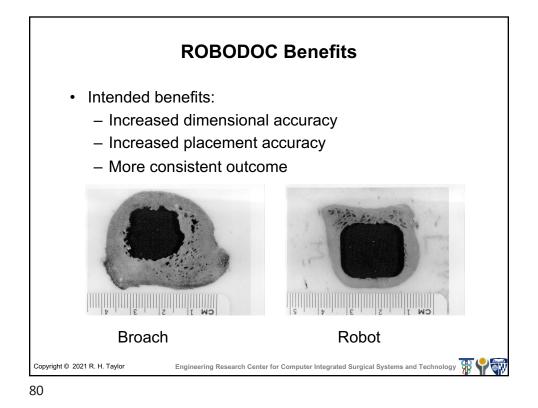


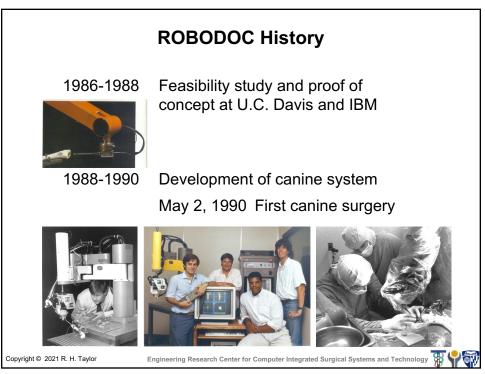


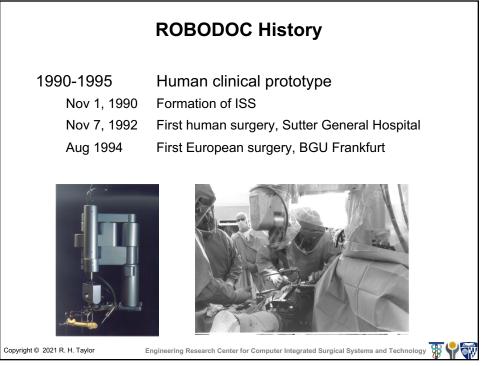


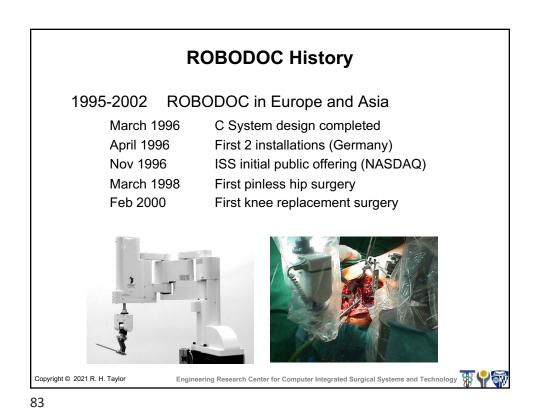












ROBODOC History	
2003-2007 Oct 2003 June 2005 June 2006 Sept 2006 June 2007	German high court ruling against plaintiff ISS resumes operations
2007-present Sept 2007 Sept 2007 Aug 2008	ROBODOC reborn Curexo Technology formed (Novatrix) Curexo files 510(K) with FDA Robodoc receives FDA approval (for hip replacement surgery) Company now operates in the US as Think Surgical
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