Cost of Doing Business and IT Prioritization: CIO's Perspective

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Our Mission

The Children's Hospital of Philadelphia (CHOP), the oldest hospital in the United States dedicated exclusively to pediatrics, strives to be the world leader in the advancement of health care for children by integrating excellent patient care, innovative research, and quality professional education into all of its programs

CHOP



- Health system consisting of the main hospital and a comprehensive network of care in PA and NJ
- Regional, national and international referral center
- 530 inpatient beds (203 intensive care beds)
- $\ ^{\circ}$ 30 primary care sites, 10 specialty care sites, affiliations with 12 community hospitals
- >1.2 M outpatient visits
- ~11,000 employees
- >1,200 licensed medical practitioners
- 450 research investigators
- \$2B expansion plan for the next 6 years



The CEO's Vision (Steve Altschuler, MD)

- · Almost a decade ago, we envisioned a future in which the electronic health information of our patients would exist on a common platform between our caregivers to improve quality and safety
- We will improve the health of children using information to transform pediatric healthcare, accelerate learning and create new scientific knowledge

My Journey to CIO

- 1984: MD/PhD from the University of Paris
- 1984-1990: Trained in Clinical Pathology at Washington University in St. Louis and Barnes Hospital. Research in Biochemistry
- 1990: Joined the University of Pennsylvania School of Medicine
- 2001-2008: Chair of Pathology and Laboratory Medicine and pathologist-in-chief at CHOP
- 2008-present: CHOP CIO
- Align IS with Hospital strategy and goals

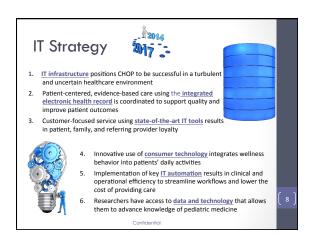


CHOP IT

- 500 FTE
- 2 remote data centers
- >400 applications
- Epic is our EHR
- · Continuous implementation mode
- \$50M in annual capital projects
- >\$80M in annual operating budget
- Last 6 years, CHOP IT has undergone a major transformation to align with the CHOP clinical, research and business needs

Teamwork, Accountability, **Transparency & Patient Safety**







Accountability

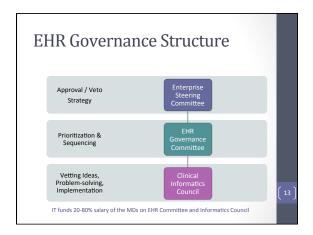
- Executive Committee of the Board of Trustees
- Audit and Compliance Committee of the Board
- CIO reports to COO
- Enterprise Steering Committee:

 - President & COO (chair)
 C-suite Executive Leadership (CAO, CFO, CIO, CMO, CNO, CSO)
 - Physician Executive Leadership (President of CHOPPA, Chair of Medical Staff IS Committee, Chair of Pediatrics)
- EHR Governance Committee:
 CMIO + 3 Medical Directors for Epic
- Director of Nursing informatics
 Clinical Champions (Surgery, ED)
- AVP for Clinical Applications
- IS Directors

Decision Making

- Clinical Projects are first reviewed by an EHR Governance Committee with input from a **Clinical Informatics Council**
- Enterprise Steering Committee defines and ranks CHOP business drivers that derive from CHOP's Strategic Plan
- All IT projects are approved by the Enterprise Steering Committee
- Each IT project is scored against the CHOP business drivers to determine relative strategic value

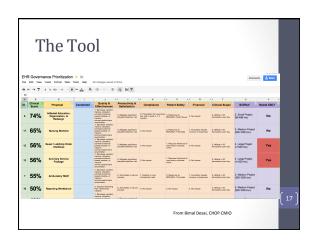
Prioritized CHOP Business Drivers Business Drivers Ranked by Enterprise Steering Committee 1. Improve Patient Safety 2. Improve Patient Outcomes through Scientific Discovery and Medical Innovation 3. Grow High Acuity Care Cases 4. Improve Operational Efficiencies 5. Maintain Infrastructure 6. Maintain Local Market Share 7. Improve Compliance 8. Increase Satisfaction and Awareness 9. Enhance Pediatric Education 10. Become Employer of Choice



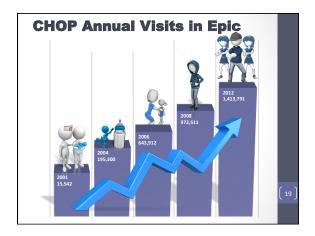
EHR Governance • Meets every other week • Primary goal is prioritization • Historically we've struggled with this • Too many lists! (some as long as 400 items) • No ability to track the work • No heuristic for ranking requests • No way to say "No" • No awareness of tradeoffs (doing A means not doing B)

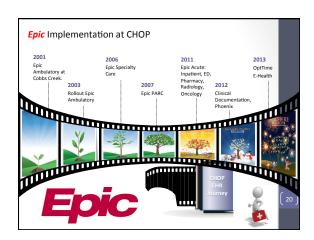
Process What we don't look at Break Fixes Enhancements (<80 hrs) These are taken care of as part of Epic operations What we do look at All projects (>= 80 hours) Both OPEX and CAPEX projects Tools Clinical Scoring Tool (adapted from Stanford U.) Input from EHR Operations and Implementation By design, clinical score is independent of the IS capacity

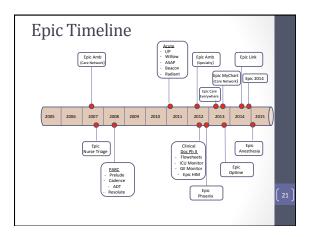




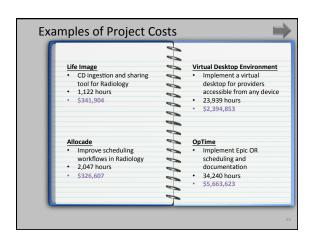


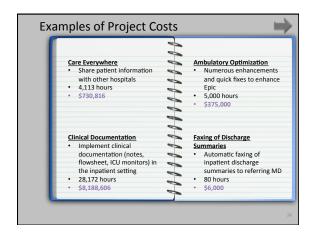












Epic Total Cost of Ownership		
FY2002-2017		
\$426		
MIIII		
June	(25)	