

Promoting Usability In Health Organizations Using A Healthcare Usability Maturity Model

> Nancy Staggers, PhD, RN, FAAN Co-lead HIMSS Usability Taskforce

Today's Presentation

- Discuss the value of usability to health organizations
- Present a new 5-phase model
- Provide initial steps to improve the user experience in health organizations
- Contrast two organizations with differing levels of usability maturity using the model

White Paper Authors

- Nancy Staggers (co-lead)
 Melanie Rodney (co-lead)
- Patricia Alafaireet
- 🗸 Cecilia Backman
- 🗸 Janet Bochinski
- Bob Schumacher
- 🖌 Yan Xiao
- Edna Boone, HIMSS Liaison



Usability Definition and Goals

Usability is "the extent to which a product can be used by specified users to achieve specified goals with effectiveness, efficiency, and satisfaction in a specified context of use." (ISO 9241-11)



The Value of Usability to Health Organizations



Usability Maturity Phases

Phase	Title	Definition
1	Unrecognized	Lack of awareness of usability. No practices, policies or resources
2	Preliminary	Sporadic inclusion of usability. Very limited resources
3	Implemented	Recognized value of usability. Small team doing usability
4	Integrated	All benchmarks of usability implemented including a dedicated user experience team
5	Strategic	Business benefit well understood, usability mandated, budget and people part of each year's budget, results used strategically throughout the organization

Health Usability Maturity Model



Typical Methods to Launch Usability in Organizations

- "Wake-Up Calls"
- Individual Infiltration Methods
- Finding Internal Champions
- Using External Experts as a Catalyst

Initial Steps to Improve the User Experience



Contrasting Case Studies



U.S. Military Health System
 AHLTA ambulatory system
 Recently entered phase 2

University Health Network, Toronto, CA
 The user experience is part of all product purchases, cooperation with vendors in design, research on the user experience
 Phase 4



Next Steps

Develop an interactive tool for organizations to
 Diagnose their current phase
 Make recommendations for improving the user experience
 In process now

Longer term

 Assess the user experience in health organizations using the tool



Maturity Model Resources

- HIMSS usability maturity model white paper: <u>http://www.himss.org/ASP/topics_FocusDynamic.asp</u> <u>?faid=358</u>
- White paper co-leads
 Nancy Staggers: staggers@son.umaryland.edu
 Melanie Rodney: Melanie.rodney@macadamian.com