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Current and Future Usability Experience: Engaging Hospitals, Health Systems and Developers

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2011-2012 HIMSS Public Policy Principles

Safety, Standards, Infrastructure, and Innovation: Support research funding in the field of human factors related to EHRs and related technologies such as ordering, documentation, and decision support. Such research will allow development of evidence-based usability guidelines for EHRs.



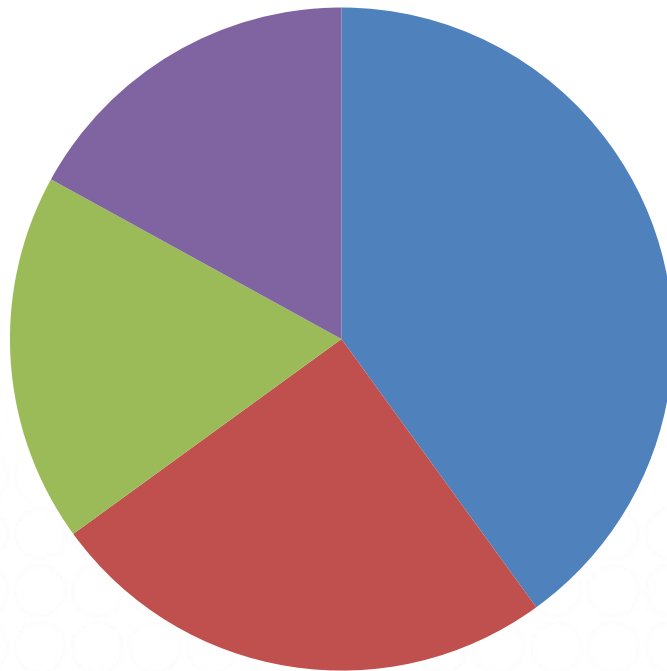
Usability Task Force

Charge: To provide HIMSS membership and the healthcare industry with tools, resources and best practices related to EHR usability required for adoption and optimal use of health IT. www.himss.org/usability



Usability Taskforce

Membership



■ 40% Usability Industry

■ 25% Academia

■ 18% Provider

■ 17% HIT Industry



Current Activities

- Website Re-org [HIMMS Usability](#)
- Usability Maturity Model Survey
- Mobile Design Tenets
- Usability 101 Workshop: Applied Methods & Insights
- NIST Draft EHR Usability Protocol Response

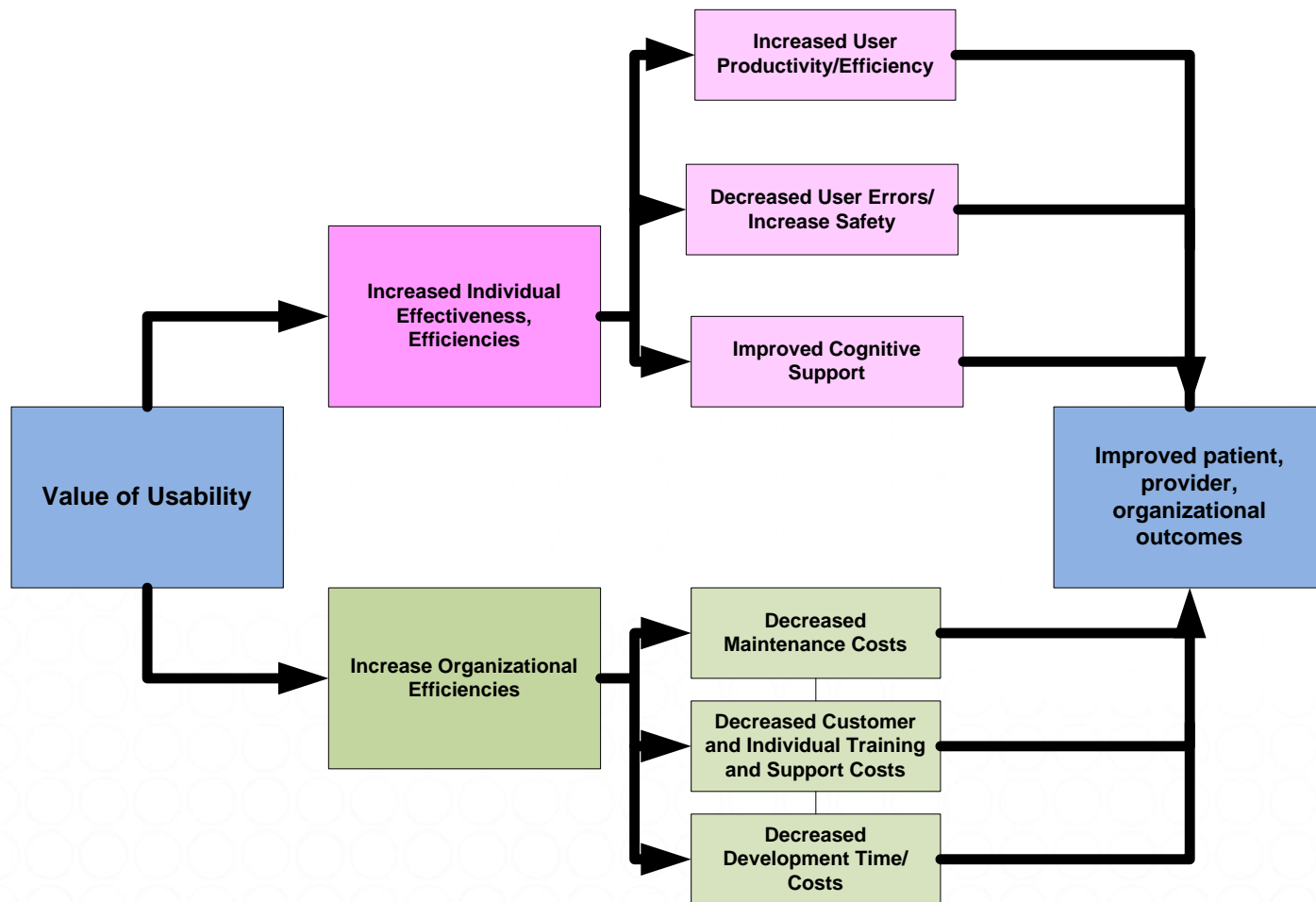


Usability Maturity in Health Care

- How do we support the development, implementation and optimization of safe, efficient, effective systems and processes?
- How do we facilitate the movement of the health care & healthcare information technology industry through the maturity model?
- himss.org/content/files/HIMSS_Promoting_Usability_in_Health_Org.pdf

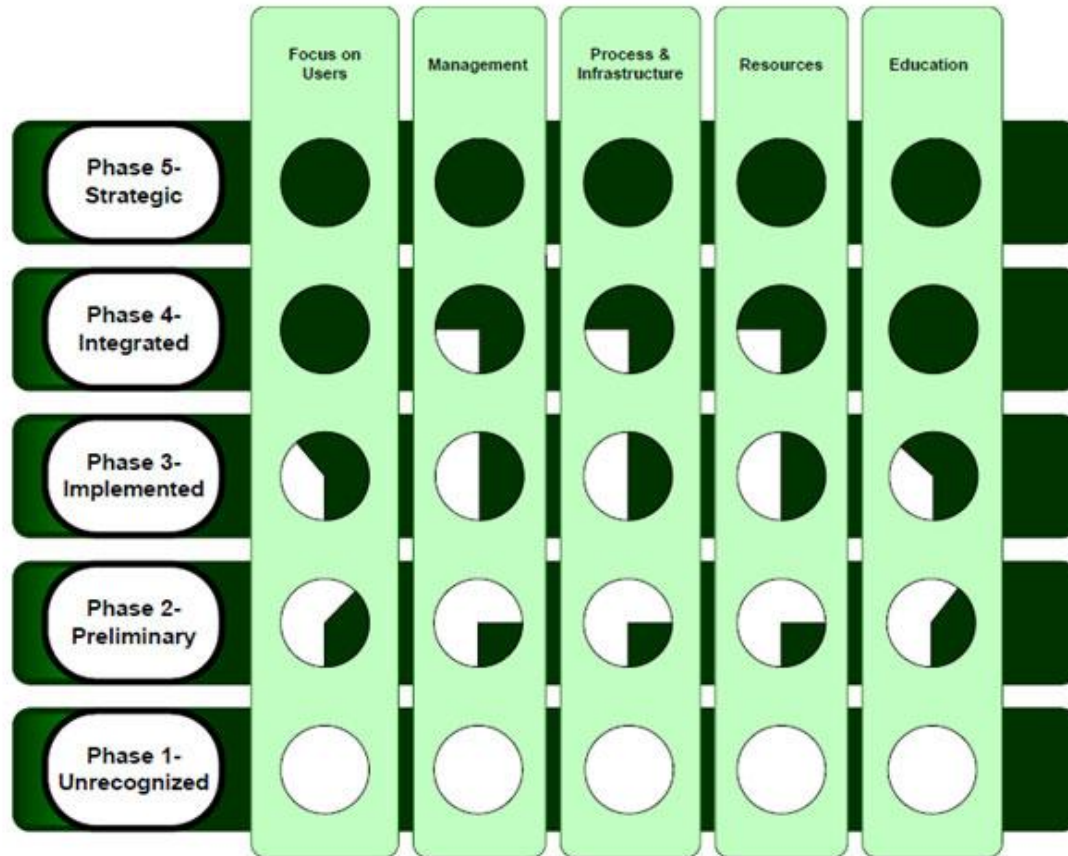


Value of Usability to Healthcare Organizations





Usability Maturity Model





Usability Maturity Self-Assessment Survey

- Questionnaire identifying which phase in the usability maturity model an organization lies
- Hospital &/or health system personnel is target respondent
- Sample Questions:
 - Is your organization focused on health care teams as end users for major system implementations?
 - Is User Centered Design [UCD] recognized within the organization as an integral part of any system implementation?
 - Do the personnel doing usability work use standard methods and tools?



Mobile Design

Provides guidelines for developing health information technology on handheld devices. The group has developed a series of webinars that highlight the key design tenets, as well as numerous examples of well-designed mobile apps and handheld hardware interfaces.



Workshop

Usability 101: Applied Methods & Insights

- HIMSS Annual Conference Monday, February 20th Las Vegas
- Target Participant: Analysts, Software Developers & Designers, Engineers, Product Managers, Consultants customizing & implementing EHRs
- Hands-on, interactive workshop focusing on real-world scenarios in measuring the effectiveness, efficiency and satisfaction of the user experience with an EHR. Cover usability research methods across the design/development software application timeline. Attention will be given to matching the appropriate usability research method to the associated phase of software development.



Workshop

Usability 101: Applied Methods & Insights

- Research Methods
 - Ethnographic Field Studies
 - Work Flow Analysis – Time & Motion Study
 - Building Personas
 - Focus Groups
 - Survey
 - Card Sorting
 - Formative 1 on 1 usability testing
 - Heuristic/Expert Review
 - A B Testing
 - Summative 1 on 1 usability testing



Workshop

Usability 101: Applied Methods & Insights

- Collaborators:
 - American Medical Informatics Association (AMIA)
 - Human Factors and Ergonomics Society (HFES)
 - Usability Professionals Association (UPA)
 - *National Institute of Standards & Technology NIST*



NIST Draft Guidance Response

- Technical Evaluation, Testing and Validation of the Usability of Electronic Health Records (NISTIR 7804)
- Oct 26th 3pm HIMSS member meeting to gather comments for response
- Oct 27th NIST educational seminar on draft guidance 2pm
- Nov 10th Comments due



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Questions &/or Suggestions

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