



The Impact of Technology Adoption on Hospital Operations Performance 23' – 24' Probationary Faculty Development Grant By Heng Xie, Dept. of Information Systems & Business Analytics, College of Business

Project Overview and Objectives

- The rapid advances in healthcare information technology offer healthcare organizations an opportunity to enhance operational performance.
- This project proposes a comprehensive model to investigate the impact of adopting and integrating healthcare information technology on hospital operations.
- Specifically, the project aims to establish a framework that includes both upper management and frontline healthcare professionals.
- The goal is to systematically investigate how healthcare information technology progressively affects operations performance.

Research Questions

- 1. Is the adoption of emerging healthcare information technology a driver of hospital operations performance?
- 2. Which factors influence the intention to adopt emerging healthcare information technology?

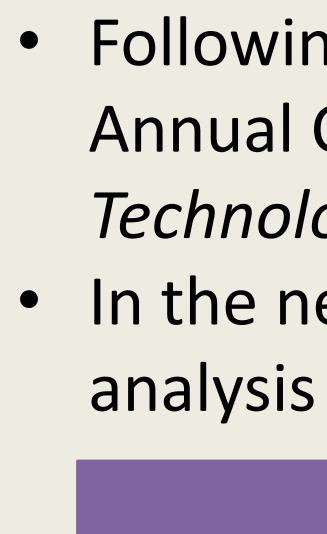
Framework Development

This project conducted a literature review on the relationship between healthcare information technology and healthcare organizations' operations performance from five perspectives:

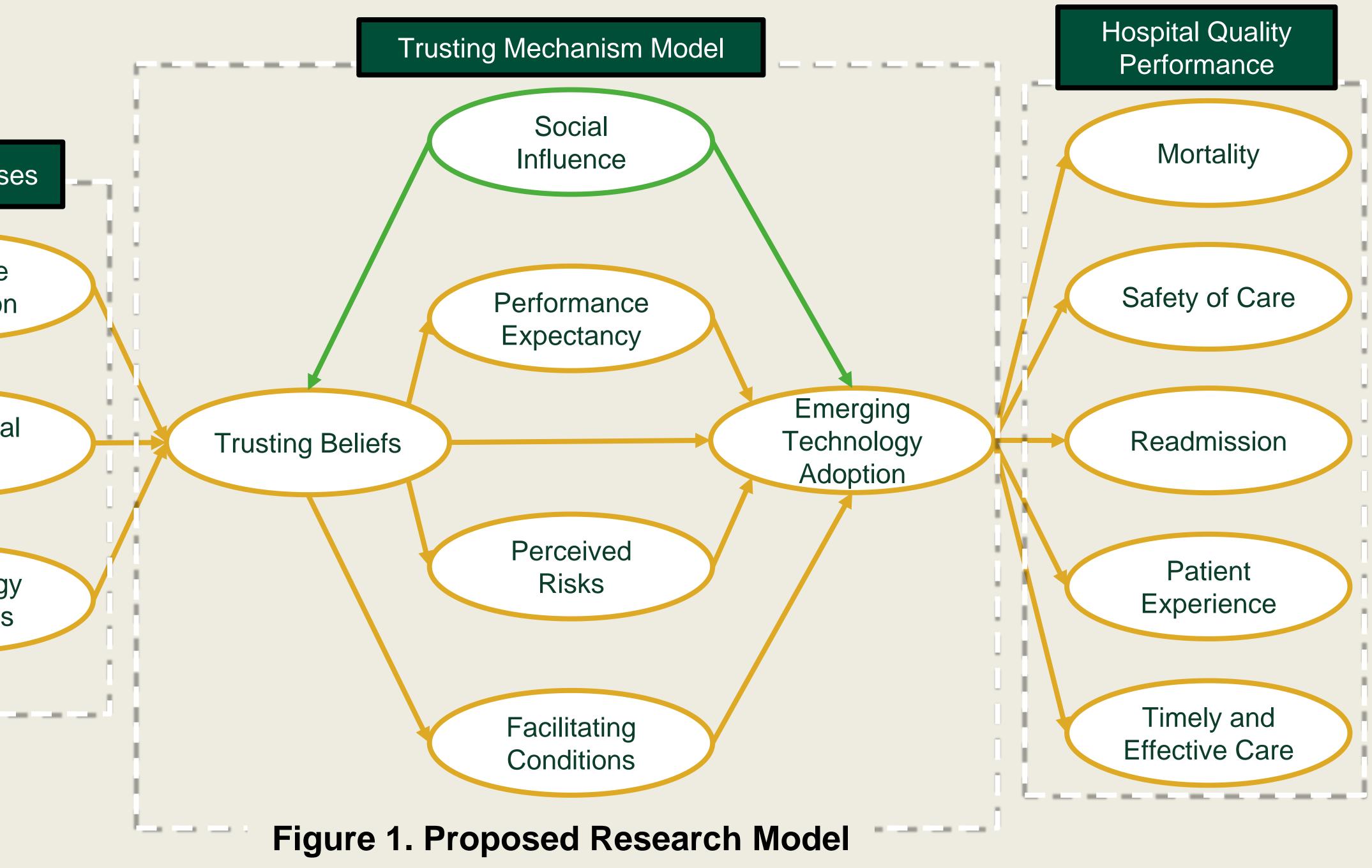
- Technology Acceptance Studies in Healthcare
 - Technology Management Studies in Healthcare
 - Trust and Emerging Healthcare Technology Adoption
- Organizational Agility

Industry Practices on Healthcare Technology Adoption and Evaluation

Trusting Bases Cognitive Reputation Institutional Culture Technology Structures



I would like to express my gratitude to the Probationary Faculty Development Grant Awards Committee for recognizing this project, as well as to the college and university for their support and help.



Project Results and Future Directions

Following the scheduled timeline, I presented this project at the POMS 2024 Annual Conference in April. The title of my oral presentation was "Emerging Technology Adoption as a Driver of Hospital Operations Performance". In the next stage of data collection, I will conduct segmented sampling and analysis across three groups to generate more insights through comparisons.



Acknowledgments

Group 3

Patient relationship-related technology group