An Empirical Development of Critical Value Factors (CVF) for Information Quality in Business Intelligence Systems Implementations

Paul Dooley – Advisor: Dr. Yair Levy

Research Problem

The research problem that this study will address is the preponderance of failed BI system projects, promulgated by a lack of attention to Information quality (IQ) in business intelligence systems implementations (BISI).

Research Goals

The main goal of this proposed research study is to validate empirically a model for IS success that investigates how an organization may gain benefits in the context of BISI by uncovering the critical value factors (CVFs) of IQ necessary to derive BISI success.

Research Questions and Hypotheses

RQ1: What IQ characteristics are valued in BISI by users?
RQ2: What are the CVFs for IQ that users value in BISI?
H1a: The CVF of contextual IQ will exert a significant positive influence on IQ for BISI success.
H1b: The CVF of intrinsic IQ will exert a significant positive influence on IQ for BISI success.
H1c: The CVF of accessible IQ will exert a significant positive influence on IQ for BISI success.
H1d: The CVF of representational IQ will exert a significant positive influence on IQ for BISI success.
H2: IQ of BISI will exert a significant positive influence on user satisfaction from BISI.
H3: User satisfaction from BISI will exert a significant positive influence on net benefits from BISI.

Next steps

• Approval of Idea Paper
• Conduct research
• Provide research results

References


Phase I

Literature Review
Research Questions
Qualitative Research Design
Phase II

Qualitative Data Collection (Expert Panel)
Quantitative data analysis for (RQ1)
Expert Panel feedback

Phase III

CVFs for IQ in BISI
Testing Hypotheses H2 and H3
Conclusions and recommendations

Conceptual Model Testing (PLS analysis)