

Association for Information Systems AIS Electronic Library (AISeL)

AMCIS 2011 Proceedings - All Submissions

8-5-2011

IS Architecture Characteristics as a Measure of IT Agility

Volker Nissen

Ilmenau University of Technology, volker.nissen@tu-ilmenau.de

Alexander von Rennenkampff

Ilmenau University of Technology, alex.von.rennenkampff@gmail.com

Frank Termer

Ilmenau University of Technology, frank.termer@tu-ilmenau.de

Follow this and additional works at: http://aisel.aisnet.org/amcis2011_submissions

Recommended Citation

Nissen, Volker; Rennenkampff, Alexander von; and Termer, Frank, "IS Architecture Characteristics as a Measure of IT Agility" (2011). *AMCIS 2011 Proceedings - All Submissions*. 89.

http://aisel.aisnet.org/amcis2011_submissions/89

This material is brought to you by AIS Electronic Library (AISeL). It has been accepted for inclusion in AMCIS 2011 Proceedings - All Submissions by an authorized administrator of AIS Electronic Library (AISeL). For more information, please contact elibrary@aisnet.org.

IS Architecture Characteristics as a Measure of IT Agility

Prof. Dr. Volker Nissen

Ilmenau University of Technology
Department of Information Systems in Services
volker.nissen@tu-ilmenau.de

Alexander von Rennenkampff

Ilmenau University of Technology
Department of Information Systems in Services
alex.von.rennenkampff@googlemail.com

Frank Termer

Ilmenau University of Technology
Department of Information Systems in Services
frank.termer@tu-ilmenau.de

ABSTRACT

As markets change, business models alter and technology evolves information systems need to change. The ability and speed of change in information systems are crucial success factors for the success of the business itself. We call this IT Agility.

IT Agility depends on many internal and external factors of the enterprise and can be achieved through reactive and proactive actions. In this paper the focus is on the information systems architecture as a main proactive contributor to IT Agility.

As measurement is essential for the management of IT Agility a framework is suggested that quantitatively evaluates the main influencing factors of information systems architecture on IT Agility (coupling, redundancy, complexity and parameterization). Results from a real-world application show the ability of the framework to identify fields for improvement in IT Agility in the information systems architecture of enterprises.