

**THE CRITICAL SUCCESS FACTORS TOWARDS  
MIGRATION TO AGILE SOFTWARE DEVELOPMENT  
PRACTICES IN THE IT INDUSTRY OF SRI LANKA**

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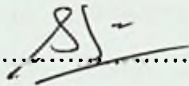
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## DECLARATION

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## **ABSTRACT**

Traditional software development and management methodologies are not well suited for today because the improvements to the area of software development, emerging technologies, and ever changing business requirements.

The success factors affect in continuation of agile software development approaches may not be the same as that of migration. It may differ from country to country or may even for among different organizations depending on its inhabited culture.

In Sri Lanka, some IT organizations yet manage software development projects with traditional approaches like Waterfall method. Hopefully those organizations will adopt Agile software development practices in future.

This study consist of a pilot survey which interviews project managers from different IT organizations followed by a questionnaire prepared from the knowledge acquired by both the literature review and the pilot survey to software professionals. The data from the quantitative survey will then analyze with statistical methods to find out the critical success factors.

The critical success factors which are going to find in this research would help for the organizations migrating to Agile methodologies to apply the changes in efficient and effective manner.

**Key words:** Agile, Migration, Software development, Project Management



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## LIST OF ABBREVIATIONS

Abbreviation	Description
ASD	- Agile Software Development
AUP	- Agile Unified Process
BPO	- Business Process Outsourcing
BPR	- Business Process Re-engineering
DSDM	- Dynamic Systems Development Method
FDD	- Feature-Driven Development
HR	- Human Resource
IS	- Information System
IT	- Information Technology
ITES	- IT enabled Services
RUP	- Rational Unified Process
RAD	- Rapid Application Development
SDLC	- Software Development Life Cycle
SLASSCOM	Sri Lanka Association for Software and Service Companies
XP	- Extreme Programming

## TERMS AND DEFINITIONS

<b>Term</b>	<b>Definition</b>
Migration	The transition from one process or methodology being practiced to another process or methodology is considered as “migration” in this study. That is, bringing a new way of doing something in to action effectively. Therefore, the migration only covers the initial stage or the first phase which related to the acquisition of a new process during an adoption.
Adoption	The choice to acquiring and using a new process or methodology is considered as “adoption” in this study. It means, the adoption covers not only the acquisition but also its continuous integration to keep it going forward.