

# TABLE OF CONTENTS

## CHAPTER 1: INTRODUCTION

|  |    |
|--|----|
| 1. Introduction .....  | 1  |
| 1.1 Research title and objectives .....                        | 2  |
| 1.2 Introduction and significance of the problem .....         | 3  |
| 1.2.1 The role of information technology in organizations..... | 3  |
| 1.3 Motivation for this research .....                         | 8  |
| 1.4 Research and problem statement .....                       | 9  |
| 1.5 Research scope.....  | 10 |
| 1.6 Research question and hypothesis .....                     | 11 |
| 1.7 Organization of this study.....                            | 13 |

## CHAPTER 2: LITERATURE REVIEW

|  |    |
|--|----|
| 2.1 Literature Review .....                                    | 15 |
| 2.1.1 IT Services and IT Service Management.....               | 15 |
| 2.1.2 Why ITIL/ITSM is needed? .....                           | 17 |
| 2.1.3 ITIL a global standard for IT Service Management.....    | 23 |
| 2.1.4 ITIL adoption and implementation progress.....           | 26 |
| 2.1.5 ITIL no one size fits all solution .....                 | 28 |
| 2.1.6 ITIL processes .....                                     | 32 |
| 2.1.7 ITIL core streams, processes and functions .....         | 35 |
| 2.1.8 Other management framework implementation with ITIL..... | 37 |
| 2.1.9 ITIL Implementation success factors .....                | 40 |

## **CHAPTER 3: RESEARCH METHODOLOGY**

|   |    |
|---|----|
| 3.1 Hypothesis Development .....  | 43 |
| 3.1.1 Hypothesis 1, 2 and 3: Organizational factors and ITIL implementation ..... | 43 |
| 3.1.2 Hypothesis 4: ITIL implementation progress with COBIT framework .....       | 44 |
| 3.1.3 Hypothesis 5: Satisfaction with effectiveness of ITIL .....                 | 45 |
| 3.2 Research Methodology and Theoretical Framework .....                          | 46 |
| 3.3 Research Instrument.....  | 48 |
| 3.3.1 Section 1: Organizational Information:.....                                 | 49 |
| 3.3.2 Section 2: Organization’s current initiatives and progress .....            | 50 |
| 3.3.3 Section 3: Organization’s ITSM / ITIL initiative and progress.....          | 50 |
| 3.3.4 Section 4: Success factors contributing to ITSM / ITIL .....                | 51 |
| 3.4 Sampling Plan.....  | 51 |
| 3.5 Data Collection Procedures .....  | 54 |
| 3.6 Data Analysis:.....   | 55 |

## **CHAPTER 4: RESEARCH RESULTS**

|  |    |
|--|----|
| 4.1 Profile of the respondents .....   | 57 |
| 4.2 Organization designated MSC locations .....                                    | 58 |
| 4.3 Organization Sectors .....   | 59 |
| 4.4 Organization ownership .....   | 60 |
| 4.5 Organization yearly turnover and size in terms of number of staff .....        | 61 |
| 4.6 Number of IT staff in organization .....                                       | 62 |
| 4.7 Progress on IT service management framework in organizations .....             | 63 |
| 4.8 ITIL effectiveness, satisfaction and successful implementation .....           | 64 |
| 4.9 Analysis and testing of hypothesis .....                                       | 66 |
| 4.9.1 Implementation of ITIL associated with budget/turnover.....                  | 66 |
| 4.9.2 Implementation of ITIL associated with total employment.....                 | 69 |
| 4.9.3 Implementation of ITIL is associated with number of IT staff. ....           | 72 |
| 4.9.4 Satisfaction with ITIL/ITSM is associated with implementation progress ..... | 75 |
| 4.9.5 ITIL Implementation progress is associated with COBIT implementation .....   | 77 |

**CHAPTER 5: CONCLUSION AND RECOMMENDATIONS**

5.1 Conclusion and summary of results ..... 82  
5.2 Managerial implications ..... 85  
5.3 Contribution to academic literature..... 86  
5.4 Limitation of this research ..... 87

**APPENDIX**

APPENDIX 1. Research survey ..... 89  
APPENDIX 2. ITIL success factors perceived by organizations ..... 90  
APPENDIX 3. ITIL processes and functions implementation progress..... 91  
APPENDIX 4. Q-Q Plot for ITIL implementation progress ..... 93

**REFERENCES**

References ..... 97

| <b>LIST OF TABLES</b>   | <b>PAGE</b> |
|---|-------------|
| Table 2.1: ITIL core topics   | 35          |
| Table 2.2: List of Processes in ITIL, COBIT, CMMI, ISO9001                | 39          |
| Table 3.1: Research sample size   | 53          |
| Table 4.1: ITIL Implementation progress Organization financial turnover   | 66          |
| Table 4.2: ITIL implementation progress and organization size correlation | 66          |
| Table 4.3: ITIL implementation progress and number of organization staff  | 69          |
| Table 4.4: Correlation ITIL implementation and number of staff            | 69          |
| Table 4.5: ITIL implementation progress and organization total IT staff   | 71          |
| Table 4.6: Correlation ITIL implementation progress and IT staff          | 71          |
| Table 4.7: ITIL satisfaction and ITIL implementation progress             | 73          |
| Table 4.8: Correlation ITIL satisfaction and ITIL implementation progress | 73          |
| Table 4.9: ITIL and COBIT implementation progress                         | 75          |
| Table 4.10: ITIL and COBIT implementation progress                        | 76          |
| Table 4.11: Ranked ITIL success factors                                   | 77          |

| <b>LIST OF FIGURES</b>   | <b>Page</b> |
|--|-------------|
| Figure 2.1: ITIL core publications                                   | 31          |
| Figure 2.2: ITIL processes and service life cycle                    | 34          |
| Figure 2.3: ITIL process interaction                                 | 36          |
| Figure 3.1: Research Framework (Organizational factor)               | 47          |
| Figure 3.2: Satisfaction and success framework                       | 47          |
| Figure 4.1: Profile of Respondent                                    | 57          |
| Figure 4.2 Organizations MSC status location                         | 58          |
| Figure 4.3: Organizations business sectors                           | 59          |
| Figure 4.4: Participating organizations ownership                    | 60          |
| Figure 4.5: Organizations yearly turnover                            | 61          |
| Figure 4.6: Organizations size (number of staff)                     | 61          |
| Figure 4.7: Organizations size (total IT staff)                      | 63          |
| Figure 4.8: ITIL implementation progress                             | 63          |
| Figure 4.9: ITIL implementation satisfaction                         | 64          |
| Figure 4.10 ITIL implementation progress                             | 65          |
| Figure 4.11: ITIL implementation and organizations size              | 67          |
| Figure 4.12: Correlation between ITIL implementation and turnover    | 68          |
| Figure 4.13: Correlation between ITIL implementation and total staff | 70          |
| Figure 4.14: Correlation between ITIL implementation and IT staff    | 72          |