DETERMINANTS OF SMEs’ ADOPTION OF INFORMATION COMMUNICATION TECHNOLOGY (ICT) AND THEIR IMPACT ON ORGANIZATIONAL PERFORMANCE IN INDONESIA

DEDE SADEWO DJATIKUSUMO

Thesis submitted in fulfillment of the requirement for the degree of doctorate of business administration

FACULTY OF BUSINESS, GOVERNMENT & LAW
UNIVERSITY OF CANBERRA

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# TABLE OF CONTENTS

Table of Contents........................................................................................................... i  
List of Figures.................................................................................................................. v  
List of Tables..................................................................................................................... vii  
List of Appendices.......................................................................................................... ix  
Form B Certificate of Authorship of Thesis................................................................. xi  
Abstract............................................................................................................................ xiii  
Acknowledgements.......................................................................................................... xv  
Publications....................................................................................................................... xvii

## CHAPTER ONE: INTRODUCTION
1.1 Research Background ............................................................................................... 1  
1.2 Study Rationale ....................................................................................................... 4  
1.3 Research Questions.................................................................................................. 4  
1.4 Research Contributions ........................................................................................... 4  
1.5.1. Theoretical contributions  
1.5.2. Practical contributions  
1.5. Structure of the thesis.............................................................................................. 5  
1.6 Summary of the chapter............................................................................................ 7

## CHAPTER TWO: LITERATURE REVIEW
2.1 Introduction................................................................................................................ 9  
2.2 Definitions of ICT Innovation................................................................................... 10  
2.3 ICT Innovation Adoption Process............................................................................ 13  
2.4 Social media and social networking ....................................................................... 17  
2.4.1. Facebook........................................................................................................... 23  
2.5 Small and medium enterprises................................................................................ 25  
2.6 Innovation adoption in small and medium enterprises........................................... 29  
2.7 Adoption Practice of ICT Innovations in SMEs in Indonesia.................................. 31  
2.8 Theoretical Framework............................................................................................. 34  
2.8.1 Theory of Reasoned Action (TRA)..................................................................... 34  
2.8.2 Technology Acceptance Model (TAM)............................................................. 37  
2.8.3 Conceptual Framework by Framback and Schillewaert................................. 41  
2.8.4 Unified Theory of Acceptance and Use of Technology (UTAUT)................. 43  
2.9 Research Model....................................................................................................... 46

## CHAPTER THREE: HYPOTHESIS DEVELOPMENT
3.1. Organizational Factors............................................................................................ 51  
   Training....................................................................................................................... 52  
   Managerial Support.................................................................................................... 54  
   Incentives.................................................................................................................... 55  
3.2 Individual Factors.................................................................................................... 58  
   Perceived Usefulness................................................................................................. 58  
   Experience................................................................................................................. 60
Innovativeness................................................................. 61
3.3 Social Factors.......................................................... 63
   Virtual social network.................................................. 65
   Peers........................................................................ 67
   Government’s Role....................................................... 69
3.4 Demographics.......................................................... 72
3.5 Attitude Toward Adoption............................................. 74
3.6 Technological Adoption Behavior................................... 75
3.7 Organizational Performance......................................... 76
3.8. Summary of the chapter............................................. 90

CHAPTER FOUR: RESEARCH METHODOLOGY
4.1 Introduction............................................................. 91
4.2 Definition of SMEs...................................................... 91
4.3 Research Design....................................................... 93
4.4 Population of the study............................................... 96
4.5 Sample of the Study.................................................. 96
4.6 Research Instrument.................................................. 98
4.7 Variables of the Study................................................ 99
4.8 Definition and Measurement of the variables.................... 101
4.9 Data Collection........................................................ 111
4.10 Data Analysis.......................................................... 112
4.11 Summary of the chapter............................................. 112

CHAPTER FIVE: DATA ANALYSIS AND DISCUSSION
5.1 Introduction............................................................. 115
5.2 Analysis of Descriptive Statistics................................... 116
5.3 Analysis of Demographic Data....................................... 116
5.4 Employee’s level of using ICT innovations........................ 118
5.5 Inter-correlations among Study Variables.......................... 130
5.6 Reliability and Convergent Validity of the Instruments........... 122
5.7 Multiple Regressions................................................... 134
5.8 Regression Analysis for Attitude as independent Variable...... 136
5.9 Discussions............................................................. 139
5.10 Summary of the chapter............................................. 172
CHAPTER SIX: CONCLUSION
6.1 Introduction................................................................. 175
6.2 Summary of research....................................................... 175
6.3 Policy recommendations.................................................. 177
6.4 Theoretical contribution.................................................... 183
6.5 Practical contribution....................................................... 184
6.6 Implication of the study..................................................... 185
6.7 Study limitations........................................................... 187
6.8 Future research.............................................................. 187

REFERENCES ............................................................................ 189
APPENDICES ............................................................................ 203
# LIST OF FIGURES

| Figure 2.1 | Rogers’ Model of the Innovation Adoption Process | 14 |
| Figure 2.2 | The Five Eras of the Social Web | 22 |
| Figure 2.3 | Timing of the Five Overlapping Eras | 23 |
| Figure 2.4 | Theory of Reasoned Action | 36 |
| Figure 2.5 | Technology Acceptance Model | 39 |
| Figure 2.6 | A conceptual framework of organizational innovation adoption | 41 |
| Figure 2.7 | A conceptual framework of individual innovation acceptance in organizational | 42 |
| Figure 2.8 | Unified Theory of Acceptance and Use of Technology | 45 |
| Figure 2.9 | Conceptual research model | 47 |
| Figure 4.1 | Thesis Research Map | 94 |
| Figure 4.2 | Research Process Map | 95 |
| Figure 5.1 | Amount of time in access social media Facebook | 119 |
| Figure 5.2 | Level of Usage social media Facebook | 121 |
| Figure 5.3 | The Usage of Advanced Features in Facebook | 122 |
| Figure 5.4 | The Usage of Sophisticated Features of Facebook | 124 |
| Figure 5.5 | Managerial Position of Respondents | 126 |
| Figure 5.6 | Education Background of Respondents | 127 |
| Figure 5.7 | Age of Respondents | 128 |
| Figure 5.8 | Gender of Respondents | 129 |
**LIST OF TABLES**

<table>
<thead>
<tr>
<th>Table</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>Sample of SMEs Definitions in the Asia-Pacific Region</td>
<td>27</td>
</tr>
<tr>
<td>3.1</td>
<td>A summary of hypothesis and reference</td>
<td>82</td>
</tr>
<tr>
<td>3.2</td>
<td>A summary of the literature review</td>
<td>83</td>
</tr>
<tr>
<td>4.1</td>
<td>Variables of the Study</td>
<td>100</td>
</tr>
<tr>
<td>5.1</td>
<td>Demographic Profile of Participants</td>
<td>117</td>
</tr>
<tr>
<td>5.2</td>
<td>Amount of Time in access social media Facebook</td>
<td>119</td>
</tr>
<tr>
<td>5.3</td>
<td>Level of Usage social media Facebook</td>
<td>120</td>
</tr>
<tr>
<td>5.4</td>
<td>The Usage of Advanced Features in Facebook</td>
<td>122</td>
</tr>
<tr>
<td>5.5</td>
<td>The Usage of Sophisticated Features of Facebook</td>
<td>123</td>
</tr>
<tr>
<td>5.6</td>
<td>Industry background of respondents</td>
<td>125</td>
</tr>
<tr>
<td>5.7</td>
<td>Managerial Position of Respondents</td>
<td>125</td>
</tr>
<tr>
<td>5.8</td>
<td>Education Background of Respondents</td>
<td>127</td>
</tr>
<tr>
<td>5.9</td>
<td>Age of Respondents</td>
<td>128</td>
</tr>
<tr>
<td>5.10</td>
<td>Gender of Respondents</td>
<td>129</td>
</tr>
<tr>
<td>5.11</td>
<td>Means, standard deviation and correlations</td>
<td>131</td>
</tr>
<tr>
<td>5.12</td>
<td>Reliability</td>
<td>133</td>
</tr>
<tr>
<td>5.13</td>
<td>Summary of results of regression analysis</td>
<td>135</td>
</tr>
<tr>
<td>5.14</td>
<td>Regression analysis of usage as dependent variable with attitude as an independent variable</td>
<td>137</td>
</tr>
<tr>
<td>5.15</td>
<td>Regression analysis profit as dependent variable with usage as an independent variable</td>
<td>137</td>
</tr>
<tr>
<td>5.16</td>
<td>Regression analysis growth as dependent variable with usage as an independent variable</td>
<td>137</td>
</tr>
<tr>
<td>5.17</td>
<td>Regression analysis market share as dependent variable with usage as an independent variable</td>
<td>138</td>
</tr>
<tr>
<td>5.18</td>
<td>The result of hypothesis testing</td>
<td>172</td>
</tr>
</tbody>
</table>
# LIST OF APPENDICES

<table>
<thead>
<tr>
<th>Appendix</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appendix 1</td>
<td>Information Sheet</td>
<td>203</td>
</tr>
<tr>
<td>Appendix 2</td>
<td>Survey Questionnaire</td>
<td>205</td>
</tr>
<tr>
<td>Appendix 3</td>
<td>Ethics Approval</td>
<td>209</td>
</tr>
<tr>
<td>Appendix 4</td>
<td>SMEs Permission Letter 1</td>
<td>211</td>
</tr>
<tr>
<td>Appendix 5</td>
<td>SMEs Permission Letter 2</td>
<td>213</td>
</tr>
<tr>
<td>Appendix 6</td>
<td>Publications</td>
<td>215</td>
</tr>
</tbody>
</table>
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Determinants of SMEs’ adoption of Information Communication Technology (ICT) and their impact on organizational performance in Indonesia

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ABSTRACT

This research examines the adoption of information technology innovation in small and medium-sized enterprises (SMEs) and its impact on organizational performance in Indonesia. Despite extensive research undertaken in the area of adoption of innovation in business in general, little is known about its adoption of by employees. The purposes of this research are to: firstly, empirically investigate the determinants and their effects on the performance of SMEs in a developing country; and secondly, provide new theoretical directions addressing why employees adopt innovations in the workplace.

This thesis develops and tests a unified model of information communication technology (ICT) adoption taking into account the strength and limitations of existing models. The theoretical framework for this research is based on the Unified Theory of Acceptance and Use of Technology (UTAUT), theory of reasoned action (TRA), the technology acceptance model (TAM), and Frambach and Schillewaert’s (2002) conceptual framework. The unified model developed here includes several modifications of prior models. The UTAUT model combines multiple sets of factors existing in previous models and incorporates factors suggested in the extant literature. Furthermore, the model incorporates additional variables tested in other innovation acceptance-related studies, especially those dealing with SMEs’ adoption of ICT. It does this to create a coherent and novel model of innovation adoption.

Survey method using a structure study instrument was employed to create a dataset to analyze and test the validity of the proposed theoretical model. Multivariate analytical techniques including multiple regression analysis using SPSS were employed for this purpose. The results show that individuals’ adoption of innovation is influenced by: two organizational factors - training and incentives; two individual factors - personal innovativeness, prior experience; and one social factor - virtual networking. The results indicate that individual adoption of innovation is influenced by employee demographics. Thus the empirical findings that clearly support the proposed unified model make a solid contribution to knowledge by deepening and broadening
our understanding of the complexities associated with the adoption and implication of adoption of ICT by SMEs in Indonesia

The theoretical model validated in this study provides valuable insights into an alternative and comprehensive theoretical basis for updating our understanding of SMEs’ implementation of ICT innovation in Indonesia. The study aims to increase government knowledge of how to apply ICT to boost the performance of small and medium sized enterprises so that they profit well and contribute to Indonesia’s national economic objectives.
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The following papers have taken partial information/data from this thesis

PUBLICATIONS

