

**ANALYSIS OF ADVANCE MANUFACTURING  
TECHNOLOGY TRANSFER EFFECTIVENESS IN  
FURNITURE INDUSTRY**

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### **DECLARATION**

I declare that this is my own work and this thesis/dissertation does not incorporate without acknowledgement any material previously submitted for a degree or diploma in any other university or institute of higher learning and to the best of my knowledge and belief it does not contain any material previously published or written by another person except where the acknowledgement is made in the text.

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## **ABSTRACT**

The Present research paper challenges to identify advance manufacturing technology transfer effectiveness in furniture industry and suitable technology transfer capability for effectiveness of International Technology transfer. To accomplish this aim organizational capability, relational capability, knowledge management, technology transfer effectiveness and constituting variables/indicators should be preliminarily and separately identified, and then the impact of knowledge management on capability of technology transfer process and its effectiveness should be measured in furniture industry. The research method is descriptive of correlation type. In this research using a simple stochastic method, 50 active people in technology transfer were selected from the furniture industry. The data for the research were collected through questionnaires and interviews. Confirmed construct and factorial analysis were used to determine the validity and for reliability, average variance method and Chronbach alpha were employed. In order to study the relationship between research variables and to study hypotheses, the modeling of regression equations have been used with the help of SPSS software. Findings indicate that knowledge management impacts on technology transfer effectiveness in furniture industry. Likewise, knowledge management relates to technology transfer effectiveness via technology transfer capabilities. Studying the impact of each variable on technology transfer effectiveness indicates that organizational capability followed by knowledge management and relational capabilities are the key factors and facilitators and as a mitigating factor, organizational capability has the highest impact on technology transfer effectiveness. The results carry significant implications for policy-makers, managers, professionals and academics in the field of international technology transfer.

**Keywords: organizational capabilities, relational capability, knowledge management, technology transfer effectiveness**

## **DEDICATION**

This dissertation is dedicated to my family. I am truly the most blessed man in the world to have such a supporting family with me for the ride as I try to achieve my goals. First and foremost, my father and mother, Mr. David Rodrigo and Mrs. Chandra Fernando helped me a lot of with giving their views about the case as well. I thank my parents for the support they gave me. In the other hand I would like to extend a special thanks to my wife Anusha Cooray and in turn shown me how to believe in myself. Your honesty and consistent encouragement are the only reasons why I am able to achieve this goal. You are the hardest worker I know and I hope that your work ethic rubbed off on me in writing a great dissertation. Thank you for blessing me with two beautiful children, son Shenal Rodrigo and daughter Neshedi Rodrigo for her tremendous support.

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## TABLE OF CONTENTS

<b>DECLARATION</b>	<b>ii</b>
<b>ABSTRACT</b>	<b>iii</b>
<b>DEDICATION</b>	<b>iv</b>
<b>ACKNOWLEDGEMENT</b>	<b>v</b>
<b>TABLE OF CONTENTS</b>	<b>vi</b>
<b>LIST OF TABLES</b>	<b>ix</b>
<b>LIST OF FIGURES</b>	<b>x</b>
<b>LIST OF SYMBOLS</b>	<b>xi</b>
<b>GLOSSARY OF TERMS</b>	<b>xii</b>
<b>LIST OF APPENDICES</b>	<b>xiii</b>
<b>CHAPTER 1</b>	<b>1</b>
<b>INTRODUCTION</b>	<b>1</b>
1.1 Research back ground of study	1
1.2 Problem Statement	3
1.3 Research Questions	5
1.4 Research Objectives	6
1.5 Significant of Study	6
1.6 Chapter Summary	7
<b>CHAPTER 2</b>	<b>8</b>
<b>LITERATURE REVIEW</b>	<b>8</b>
2.1 Introduction	8
2.2 International Technology Transfer	8
2.3 Factors that influence the I.T.T	10
2.4 TT at the regional level in less developed countries	12
2.5 Technology and Its Transfer	14
2.6 Technology transfer concepts	15
2.6.1 Direct method of technology transfer	17
2.6.2 Indirect transfer of technology	19
2.7 Factors Affecting Technology Transfer	21
2.5.1 Organizational Capability	23
2.5.2 Relational Capability	23

2.5.3 Technological Capability	24
2.5.4 Knowledge Capability	25
2.5.5 Knowledge management	26
2.5.6 Technology Transfer Effectiveness	26
2.8 The stage-gate model of technology transfer	27
2.9 Beyond technology transfer	31
2.10 Chapter Summary	32
<b>CHAPTER 3</b>	<b>33</b>
<b>METHODOLOGY</b>	<b>33</b>
3.1 Introduction	33
3.2 Conceptual frame work	33
3.3 Hypothesis	34
3.4 Operationalize table	35
3.5 Research design	38
3.6 Population, sample selection	39
3.7 Data collection	39
3.9 limitations	40
3.10 Data Analysis	40
3.4 Summary	41
<b>CHAPTER 4</b>	<b>42</b>
<b>DATA ANALYSIS</b>	<b>42</b>
4.1 Introduction	42
4.2 validity and consistency of measures	42
4.2.1 Validity	42
4.2.2 Reliability	43
4.2.3 Discriminant validity	44
4.3 correlation analysis	45
4.4 Regression analysis	45
4.4.1 Regression analysis for H1	45
4.4.2 Regression analysis for H2	47
4.4.3 Regression analysis for H3	48
4.4.4 Regression analysis for H4	49

4.4.5 Regression analysis for H5	50
4.4.6 Regression analysis for total	50
4.5 data analysis	54
4.6 Results for Research Question	55
4.6.1 Results for Research Question one	55
4.6.2 Results for Research Question two	56
4.6.3 Results for Research Question three	57
4.7 Chapter Summary	57
<b>CHAPTER 5</b>	<b>58</b>
<b>CONCLUSIONS AND RECOMMENDATIONS</b>	<b>58</b>
5.1 Introduction	58
5.2 Conclusion	58
5.3 Limitations of this Research	59
5.4 Research Implication	59
5.5 Further research	60
5.6 Recommendation	61
<b>REFERENCES</b>	<b>62</b>
<b>APPENDIX A Questionnaire Form</b>	<b>65</b>
<b>APPENDIX B Factor Analysis</b>	<b>70</b>
<b>APPENDIX C Reliability Analysis</b>	<b>75</b>
<b>APPENDIX D Scatter Plot</b>	<b>79</b>



## LIST OF TABLES

<b>TABLE NO.</b>	<b>TITLE</b>	<b>PAGE</b>
Table 3.1	Operationalize table	39
Table 4.1	K.M.O value	46
Table 4.2	Cronbach's alpha value	47
Table 4.3	AVE value	48
Table 4.4	Correlations	49
Table 4.5	Model Summary for H1	50
Table 4.6	ANOVA of the Regression for H1	51
Table 4.7	Coefficient of determination for H1	51
Table 4.8	Model Summary for H2	52
Table 4.9	ANOVA of the Regression for H2	52
Table 4.10	Coefficient of determination for H2	53
Table 4.11	Model Summary for H3	53
Table 4.12	ANOVA of the Regression for H3	54
Table 4.13	Coefficient of determination for H3	54
Table 4.14	Model Summary for H4	55
Table 4.15	ANOVA of the Regression for H4	55
Table 4.16	Coefficient of determination for H4	55
Table 4.17	Model Summary for H5	55
Table 4.18	ANOVA of the Regression for H5	56
Table 4.19	Coefficient of determination for H5	56
Table 4.20	Model Summary for total	56
Table 4.21	ANOVA of the Regression for total	57
Table 4.22	Coefficient of determination for total	57
Table 4.23	Unstandardized Coefficients	59
Table 4.24	Correlations	61

## LIST OF FIGURES

<b>FIGURE NO.</b>	<b>TITLE</b>	<b>PAGE</b>
Figure 2.1	Determinants barriers of International TT projects	13
Figure 2.2	Stage-Gate Model for ITT	30
Figure 3.1	Technology transfer process	36
Figure 4.1	probability plot of standardized residuals for regression	58

## LIST OF SYMBOLS

- $c$  - Confidence interval, expressed as decimal
- $P$  - Percentage of respondents picking a choice, expressed as decimal
- $Z$  - Z value, 1.96 for 95% confidence level
- $\alpha$  - coefficient of constant in regression equation

## **GLOSSARY OF TERMS**

AMT	-	Advanced Manufacturing Technology
AVE	-	Average Variances Extracted
CAD	-	computer-aided design
CAM	-	computer-aided Manufacturing
CNC	-	computer numerical control
FDI	-	Foreign Direct Investment
FMS	-	Flexible manufacturing systems
IT	-	Information Technology
ITT	-	International Technology Transfer
JIT	-	just-in-time
KC	-	Knowledge Capability
KM	-	Knowledge management
LDC	-	Less Developed Country
MNC	-	Multinational Corporations
OC	-	Organizational Capability
R&D	-	Research and Development
RC	-	Relational Capability
SME	-	Small and Medium-sized Enterprises
TT	-	Technology Transfer
TC	-	Technological Capacity
TTE	-	Technology Transfer Effectiveness

## LIST OF APPENDICES

APPENDIX	TITLE	PAGE
A	Questionnaire Form	69
B	Factor Analysis	73
C	Reliability Analysis	78
D	Scatter Plot	83